

Revised proposal to encode Proto-Cuneiform in Unicode

Anshuman Pandey

pandey@umich.edu
pandey.github.io/unicode

October 10, 2022

Contents

1	Introduction	3
2	Next Steps	3
3	Background	4
4	Overview of Attested Signs	4
4.1	Individual numeric signs	5
4.2	Individual ideographic signs	11
4.3	Compound signs	29
4.4	Fragmentary Signs	42
4.5	Summary of Signs with Variants	43
5	Analysis of Compound Signs	53
5.1	Typology of compounds	53
5.2	Signs in compounds without independent attestation	54
5.3	Summary of Primary Element in Compounds	57
5.4	Summary of Compound Types and Primary Element	63
6	Proposed Encoding Model	66
6.1	Proposed Character Repertoire	66
6.2	Format Control Characters	67
6.3	Naming Convention for Characters	67
7	Compound Signs by Composition	68
7.1	Atomic Signs	68
7.2	Composable Signs	74
7.2.1	Contained: DUG (71 signs)	74
7.2.2	Contained: GA2 (43 signs)	77
7.2.3	Contained: SILA3 (44 signs)	79
7.2.4	Contained: NINDA2 (30 signs)	81
7.2.5	Contained: LAGAB (31 signs)	83

7.2.6	Contained: U4 (39 signs)	84
7.2.7	Contained: ZATU737 (19 signs)	86
7.2.8	Contained: EZEN (16 signs)	87
7.2.9	Contained: MAH (16 signs)	88
7.2.10	Contained: GAN (13 signs)	88
7.2.11	Contained: URU (10 signs)	89
7.2.12	Contained: AB (10 signs)	90
7.2.13	Contained: UKKIN (8 signs)	90
7.2.14	Contained: SZITA (6 signs)	91
7.2.15	Contained: Other (23 signs)	91
7.2.16	Adjacent: Touching (61 signs)	92
7.2.17	Adjacent: Non-Touching (24 signs)	95
7.2.18	Overlay (23 signs)	97
7.2.19	Stacked (14 signs)	98
8	Character Data	100
9	References	137
10	Acknowledgments	137

1 Introduction

This proposal is a major revision and expansion of L2/20-193. It not only supersedes L2/20-193, but may also be considered a full replacement of all previous proposals submitted for encoding Proto-Cuneiform in Unicode, namely:

- L2/16-267: “Preliminary proposal to encode Proto-Cuneiform in the SMP of the UCS” (Everson)
- L2/17-157: “Proposal to encode Proto-Cuneiform in the SMP of the UCS” (Everson)
- L2/19-284: “Proposal to Encode Proto-Cuneiform in the SMP of the UCS” (Everson)
- L2/20-193: “Preliminary proposal to encode Proto-Cuneiform in Unicode” (Pandey)

The current document maintains the principle, stated in L2/20-193, of encoding all distinctive signs required for the complete encoding of extant Proto-Cuneiform texts, as attested in the Proto-Cuneiform sign list of the Cuneiform Digital Library Initiative (CDLI), which was created and maintained by the late Robert Englund. Previous proposals, such as L2/17-157, recommended the encoding of only the most common signs. The rationale was that a set of those 277 common signs may be used for encoding nearly 85% of all signs occurring in Proto-Cuneiform records. However, as a practical matter, a truly useful repertoire for Proto-Cuneiform in Unicode should provide for the representation of all distinctive signs, attested to date, in order to enable representation of the extant Proto-Cuneiform corpus.

In order to fulfill that aim, this proposal expands upon L2/20-193 in the following ways:

- Full enumeration of sign variants, achieved by separating CDLI variants from vertical stacks within an image file for a sign into individual glyphs
- Identification of signs occurring in compounds, but which are not independently enumerated in the CDLI sign list
- Classification of compound signs into ‘atomic’ and ‘composable’ categories for purposes of character encoding
- Expanded analysis of all compound signs into their constituent elements
- Introduction of format control characters for enabling the representation of ‘composable’ compound signs in plain text, instead of encoding all such compounds as individual characters
- Refined proposed character repertoire, consisting of distinctive numeric signs, ideographic signs, atomic compounds
- Documentation of character properties and line-breaking characteristics

2 Next Steps

In order to advance the encoding of Proto-Cuneiform in Unicode, I request feedback on the following issues.

- How to handle the representation of variants. At present, I’ve included all variant forms as independent characters in the proposed repertoire. If variants are to be excluded from the repertoire, what

are the factors for exclusion? Secondly, among the variants, which form should be considered the representative form for the character?

- How to handle signs that are not identified independently in the CDLI list, but that are used in compounds? It is necessary to encode these as distinctive signs in order to enable the encoded representation of compounds.
- Is the distinctiveness of variants for certain signs semantic, or purely graphical? Is there a chronological or geographical or functional distinction?
- Is there a semantic distinction between touching and non-touching forms of the same sign when it occurs in a stack?

3 Background

The earliest attested script emerged at the end of the 4th millennium BCE in Mesopotamia. It was a pictographic script, whose signs were pressed into clay tablets, initially for administrative and book-keeping purposes. These pictographs developed into more abstract signs, which evolved into the writing system known as ‘cuneiform’. Accordingly, the early script is known to scholars as ‘proto-cuneiform’.

An encoding for Proto-Cuneiform in Unicode would provide for plain-text representation of the script and enable users to encode signs as actual characters instead of as images. Proto-Cuneiform signs are depicted extensively in publications, both in charts and in running text (see fig. 1–2).

4 Overview of Attested Signs

The CDLI repertoire contains 2095 sign, which according to my analysis, consists of 349 individual numeric signs, 1106 individual ideographic signs, and 640 complex signs. Of these, 2050 are ‘complete’ signs, while 45 are ‘fragmentary’, meaning that a portion of the sign is not fully identifiable. Only the ‘complete’ signs are suitable for encoding.

class	type	number of components	complete signs	fragmentary signs	class total	
individual	numeric	1	349	—	1,455	
	ideographic	1	1,106	—		
complex	numeric	2	3	—	640	
	ideographic	2	403	34		
		3	38	8		
		4	2	—		
		numero-ideographic	2	28		—
		ideo-numeric	2	97		—
		3	20	3		
		4	3	—		
		5	1	—		
			2050	45	2095	

The CDLI naming convention for signs is used here. Numeric signs are denoted using ‘N’. The number preceding ‘N’ indicates the value of the sign, and the number following ‘N’ refers to a decipherment sequence, not any inherent value of the sign. Ideographic sign names are based upon values of the signs.

The tables show Proto-Cuneiform signs separated into numeric and general ideographic categories. Provided for each sign is a generic serial number for references purposes, one or more digitized glyphs, the conventional name, and a tentative Unicode character name.

In cases where variant signs are attested for a sign, all distinct variants as shown in a vertical stack. For such cases, the representative glyph will be identified in collaboration with experts.

Compound signs are currently proposed as they are enumerated in the CDLI sign list. As specified in § 6, the encoding model for compounds requires additional considerations.

4.1 Individual numeric signs

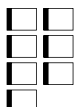
1		1N ₁	18		1N ₁₆	33		1N _{29Ab}
2		1N ₁ flat	19		1N ₁₇	34		1N _{29Ac}
3		1N ₁ reversed	20		1N ₁₈	35		1N _{30Ac}
4		1N ₂	21		1N ₁₉	36		1N _{30Cb}
5		1N ₃	22		1N ₁₉ flat	37		1N _{30Cc}
6		1N ₄	23		1N ₂₀	38		1N ₃₁
7		1N ₄ flat	24		1N ₂₂	39		1N ₃₂
8		1N ₅	25		1N ₂₂ flat	40		1N ₃₃
9		1N ₆	26		1N ₂₃	41		1N ₃₄
10		1N ₈	27		1N ₂₄	42		1N ₃₄ flat
11		1N ₈ flat	28		1N ₂₄ flat	43		1N ₃₄ flat tenû
12		1N ₉	29		1N ₂₅	44		1N ₃₅
13		1N ₁₁	30		1N ₂₆	45		1N ₃₆
14		1N ₁₂	30.1		1N ₂₆ v1	46		1N ₃₆ flat
15		1N ₁₄	31		1N ₂₇	47		1N ₃₇
16		1N ₁₄ flat	31.1		1N ₂₇ v1	48		1N ₃₈
17		1N ₁₅	32		1N ₂₈	49		1N ₄₀

50		1N ₄₁	75		1N _{8b}	98		2N ₅
51		1N ₄₃	76		1N _{24a}	99		2N ₈
52		1N ₄₄	77		1N _{24b}	100		2N ₁₄
53		1N ₄₅	78		1N _{26b}	101		2N ₁₄ flat
54		1N ₄₅ flat	79		1N _{28b}	102		2N ₁₅
55		1N ₄₆	80		1N _{28c}	103		2N ₁₈
56		1N ₄₆ flat	81		1N _{29a}	104		2N ₁₉
57		1N ₄₇	81.1		1N _{29a} v1	105		2N ₁₉ flat
58		1N ₄₈	82		1N _{29b}	106		2N ₂₀
59		1N ₄₈ flat	83		1N _{30a}	107		2N ₂₁
60		1N ₄₉	83.1		1N _{30a} v1	108		2N ₂₂
61		1N ₅₀	84		1N _{30c}	109		2N ₂₂ flat
62		1N ₅₁	85		1N _{30d}	110		2N ₂₃
63		1N ₅₁ flat	86		1N _{30e}	111		2N ₂₄
64		1N ₅₂	87		1N _{39a}	112		2N _{29Ab}
65		1N ₅₄	88		1N _{39b}	113		2N ₃₄
66		1N ₅₅	89		1N _{42a}	114		2N ₃₄ flat
67		1N ₅₆	90		1N _{42b}	115		2N ₃₅
68		1N ₅₇	91		1N _{45a}	116		2N ₃₆
69		1N ₅₈	92		2N ₁	117		2N ₃₇
70		1N ₅₈ tenû	93		2N ₁ flat	118		2N ₄₀
71		1N ₆₀	94		2N ₂			
72		1N ₆₃	95		2N ₃			
73		1N _{7a}	96		2N ₄			
74		1N _{7b}	97		2N ₄ flat			

119		2N ₄₁	138		2N _{8b}	160		3N ₂₁
120		2N ₄₅	139		2N _{29a}	161		3N ₂₃
121		2N ₄₅ flat	140		2N _{39a}	162		3N ₃₄
122		2N ₄₆	141		2N _{39b}	163		3N ₃₄ flat
123		2N ₄₆ flat	142		2N _{42a}	164		3N ₃₆
124		2N ₄₇	143		2N _{42b}	165		3N ₄₀
125		2N ₄₈	144		2LAGAB _a	166		3N ₄₁
126		2N ₄₉	145		3N ₁	167		3N ₄₅
127		2N ₅₀	146		3N ₁ flat	168		3N ₄₅ flat
128		2N ₅₁	147		3N ₂	169		3N ₄₆
129		2N ₅₁ flat	148		3N ₃	170		3N ₄₇
130		2N ₅₂	149		3N ₄	171		3N ₄₈
131		2N ₅₄	150		3N ₄ flat	172		3N ₄₉
132		2N ₅₆	151		3N ₅	173		3N ₅₀
133		2N ₅₇	152		3N ₈	174		3N ₅₁
134		2N ₅₈	153		3N ₁₄	175		3N ₅₁ flat
135		2N ₅₉	154		3N ₁₄ flat	176		3N ₅₂
136		2N _{7a}	155		3N ₁₅	177		3N ₅₃
137		2N _{7b}	156		3N ₁₈			
			157		3N ₁₉			
			158		3N ₁₉ flat			
			159		3N ₂₀			

178		3N ₅₄	202		4N ₁₉	220		4N ₅₂
179		3N ₅₇	203		4N ₁₉ flat	221		4N ₅₄
180		3N ₅₈	204		4N ₂₀	222		4N ₅₇
181		3N ₅₉	205		4N ₂₁	223		4N ₅₈
182		3N ₆₁	206		4N ₂₄	224		4N ₅₉
183		3N _{7a}	207		4N ₃₄	225		4N ₆₂
184		3N _{7b}	208		4N ₃₄ flat	226		4N _{8b}
185		3N _{8b}	209		4N ₃₆	227		4N _{8c}
186		3N _{39a}	210		4N ₄₀	228		4N _{39a}
187		3N _{39b}	211		4N ₄₁	229		4N _{39b}
188		3N _{42a}	212		4N ₄₃	230		4N _{42a}
189		3N _{42b}	213		4N ₄₅	231		4N _{42b}
190		4N ₁	214		4N ₄₅ flat	232		4LAGAB _a
191		4N ₁ flat	215		4N ₄₈	233		5N ₁
192		4N ₂	216		4N ₄₉	234		5N ₁ flat
193		4N ₃	217		4N ₅₀	235		5N ₂
194		4N ₄	218		4N ₅₁	236		5N ₃
195		4N ₄ flat	219		4N ₅₁ flat	237		5N ₄
196		4N ₅				238		5N ₄ flat
197		4N ₈				239		5N ₅
198		4N ₁₄				240		5N ₈
199		4N ₁₄ flat				241		5N ₁₄
200		4N ₁₅						
201		4N ₁₈						

241.1		5N ₁₄ v1	260		5N ₅₁ flat	280		6N ₄₅
242		5N ₁₄ flat	261		5N ₅₂	281		6N ₄₅ flat
243		5N ₁₅	262		5N ₅₄	282		6N ₄₈
244		5N ₁₈	263		5N ₅₇	283		6N ₅₁
245		5N ₁₉	264		5N ₅₈	284		6N ₅₁ flat
246		5N ₁₉ flat	265		6N ₁	285		6N ₅₇
247		5N ₂₀	266		6N ₁ flat	285.1		6N ₅₇ v1
248		5N ₂₁	267		6N ₂	286		6LAGAB _a
249		5N ₂₃	268		6N ₈	287		7N ₁
250		5N ₃₄	269		6N ₁₄	288		7N ₁ flat
251		5N ₃₄ flat	269.1		6N ₁₄ v1	289		7N ₂
252		5N ₃₅	270		6N ₁₄ flat	290		7N ₈
253		5N ₃₆	271		6N ₁₈	291		7N ₁₄
254		5N ₄₅	272		6N ₁₉	292		7N ₁₄ flat
255		5N ₄₅ flat	273		6N ₁₉ flat	293		7N ₁₈
256		5N ₄₈	274		6N ₂₀	294		7N ₁₉
257		5N ₄₉	275		6N ₂₁	295		7N ₁₉ flat
258		5N ₅₀	276		6N ₂₄	296		7N ₂₀
259		5N ₅₁	277		6N ₃₄	297		7N ₂₃
			278		6N ₃₄ flat	298		7N ₃₄
			279		6N ₃₆			

299  7N₃₄ flat

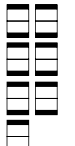
300  7N₃₆

301  7N₄₅

302  7N₄₅ flat

303  7N₄₈

304  7N₅₁

305  7N₅₁ flat

306  7N₅₇

307  8N₁

308  8N₁ flat

309  8N₂

310  8N₈

311  8N₁₄

312  8N₁₄ flat

313  8N₁₈

314  8N₁₉

315  8N₁₉ flat

316  8N₂₀

317  8N₃₄

318  8N₃₄ flat

319  8N₃₆

320  8N₄₅ flat

321  8N₅₁

322  8N₅₁ flat

323  8N₅₇

324  8N₅₈

325  9N₁

325.1  9N₁ v1

326  9N₁ flat

327  9N₂

328  9N₈

329  9N₁₄

330  9N₁₄ flat

331  9N₁₈

331.1  9N₁₈ v1

332  9N₁₉

332.1  9N₁₉ v1

333  9N₁₉ flat

334  9N₂₀

335  9N₃₄

336  9N₃₄ flat

337  9N₃₆

338  9N₄₅

339  9N₄₅ flat

340  9N₅₁ flat

341  9N₅₇

342  9N₅₈

343  10N₁

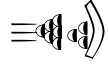
344  10N₁₄

345  10N₁₄ flat

346  10N₅₇

347		10N ₅₈	348		12N ₁₄
			349		12N ₅₈

4.2 Individual ideographic signs

350		A	367		AGAR2	384		AN
351		A gunû	368		AK _a	384.1		AN v1
352		A tenû	369		AK _b	384.2		AN v2
353		A2	370		AL	385		ANŠE _a
354		AB _a	371		ALAN _a	386		ANŠE _b
354.1		AB _a v1	372		ALAN _b	387		ANŠE _c
355		AB _a gunû	373		ALAN _c	388		ANŠE _e
356		AB _b	374		ALAN _d	389		ANZU2
357		AB2	375		ALAN _e	390		APIN _a
357.1		AB2 v1	376		ALAN _f	391		APIN _b
358		ABGAL	377		ALIM	392		APIN _c
358.1		ABGAL v1	378		AM _a	393		ARARMA2 _a
359		ABRIG	379		AM _b	393.1		ARARMA2 _a v1
360		ABZU	380		AMA _a	394		ARARMA2 _b
361		AD _a	380.1		AMA _a v1	395		ARATTA
362		AD _b	381		AMA _b	396		ASAL2
363		AD _c	382		AMAR	397		ASAR
364		ADAB	382.1		AMAR v1	398		AŠ2
365		ADDA	382.2		AMAR v2	399		AZ
366		ADDA tenû-2	383		AMAR gunû	400		AZU

401		BA	420		BAPPIR _b	440		BUR _a
402		BAD	421		BAPPIR _c	441		BUR _b
403		BAD3 _a	422		BAPPIR _d	442		BUR _c
404		BAD3 _{b1}	423		BAPPIR _e	443		BUR _d
405		BAD3 _{b2}	424		BAPPIR _f	444		BUR2
406		BAHAR2 _a	425		BAR	445		DA _a
406.1		BAHAR2 _a v1	426		BARA3	446		DA _b
407		BAHAR2 _b	427		BARA2 _a	447		DA _c
407.1		BAHAR2 _b v1	427.1		BARA2 _a v1	448		DA _d
408		BAHAR2 _c	428		BARA2 _b	449		DAG
409		BALA _a	428.1		BARA2 _b v1	450		DAH
410		BALA _b	429		BIR _a	451		DAM
410.1		BALA _b v1	430		BIR _b	452		DANNA
411		BALAG	431		BIR _c	453		DAR _a
411.1		BALAG v1	432		BIR3 _a	454		DAR _b
412		BAN _a	432.1		BIR3 _a v1	455		DAR _c
412.1		BAN _a v1	433		BIR3 _b	456		DAR _d
412.2		BAN _a v2	433.1		BIR3 _b v1	457		DARA3 _a
413		BAN _b	434		BIR3 _c	458		DARA3 _b
414		BANŠUR _a	435		BU _a	459		DARA3 _c
415		BANŠUR _a tenû	435.1		BU _a v1	459.1		DARA3 _c v1
416		BANŠUR _{b1}	436		BU _b	460		DARA3 _d
417		BANŠUR _{b2}	437		BU3	461		DARA4 _{a1}
418		BANŠUR _c	438		BULUG	462		DARA4 _{a2}
419		BAPPIR _a	439		BULUG3	463		DARA4 _{a3}

464		DARA4 _b	485		DU8 _a	500		DUG _d
465		DARA4 _{c1}	486		DU8 _b	501		DUGUD
466		DARA4 _{c2}	486.1		DU8 _b v1	502		DUR _a
467		DARA4 _{c3}	487		DU8 _c	503		DUR _b
468		DARA4 _{c4}	488		DU8 _c gunû	504		DUR2
469		DARA4 _{c5}	488.1		DU8 _c gunû v1	505		E _a
470		DI	489		DUB _a	506		E _b
471		DI tenû	490		DUB _b	507		E _c
472		DIB	490.1		DUB _b v1	508		E _d
472.1		DIB v1	490.2		DUB _b v2	509		E _e
473		DILMUN	490.3		DUB _b v3	510		E2 _a
473.1		DILMUN v1	490.4		DUB _b v4	511		E2 _b
473.2		DILMUN v2	491		DUB _c	512		E2 _c
474		DIM _a	492		DUB _d	513		E2 _d
475		DIM _b	493		DUB _e	514		E3 _a
476		DIM _c	494		DUB _f	515		E3 _b
477		DIN	495		DUB2	516		EDIN
478		DIN tenû	496		DUG _a	517		EN gunû _a
479		DU	496.1		DUG _a v1	518		EN gunû _b
480		DU gunû	496.2		DUG _a v2	519		EN _a
481		DU7	497		DUG _b	519.1		EN _a v1
482		DU6 _a	497.1		DUG _b v1	519.2		EN _a v2
482.1		DU6 _a v1	498		DUG _c	519.3		EN _a v3
483		DU6 _b	498.1		DUG _c v1	520		EN _b
484		DU6 _c	499		DUG _c tenû	520.1		EN _b v1

521		EN _b tenû	542		EZINU _a	563		GAL _b
522		EN _c	543		EZINU _b	564		GALGA _a
522.1		EN _c v1	544		EZINU _c	565		GALGA _b
523		EN _e	545		EZINU _d	566		GAN _a
524		EN2	546		GA _a	566.1		GAN _a v1
525		ENDIB	546.1		GA _a v1	567		GAN _b
526		ENGIZ	546.2		GA _a v2	567.1		GAN _b v1
527		ENKUM	546.3		GA _a v3	567.2		GAN _b v2
527.1		ENKUM v1	546.4		GA _a v4	567.3		GAN _b v3
528		ENLIL	547		GA _b	568		GAN _c
529		ENSI	548		GA _c	568.1		GAN _c v1
530		ENSI2	549		GA2 _{a1}	569		GAN _d
531		ERIM _a	550		GA2 _{a2}	570		GAN2
532		ERIM _{b1}	551		GA2 _{a3}	571		GAR
533		ERIM _{b2}	552		GA2 _{a4}	572		GAR gunû _a
534		ERIM2	553		GA2 _b	573		GAR gunû _b
535		ERIN	554		GA2 _c	574		GAR gunû _c
536		EŠDA	555		GA'AR _{a1}	575		GAR3
537		EŠGAR	556		GA'AR _{a2}	576		GARA2 _a
538		EZEN _a	557		GA'AR _{b1}	577		GARA2 _b
538.1		EZEN _a v1	558		GA'AR _{b2}	578		GAZI
539		EZEN _b	559		GADA _a	579		GEŠTIN _a
540		EZEN _b tenû	560		GADA _b	580		GEŠTIN _c
541		EZEN _c	561		GADA _b gunû	581		GEŠTU _a
			562		GAL _a	581.1		GEŠTU _a v1

581.2		GEŠTU _a v2	602		GIR4	624		GU4
582		GEŠTU _b	603		GIR2 _a	624.1		GU4 v1
583		GEŠTU _{c3}	604		GIR2 _b	625		GU4 gunû
583.1		GEŠTU _{c3} v1	605		GIR3 _a	626		GU7
584		GEŠTU _{c5}	606		GIR3 _b	626.1		GU7 v1
585		GI	607		GIR3 _c	627		GUB3 _a
585.1		GI v1	608		GISAL _a	628		GUB3 _b
586		GI tenû	609		GISAL _b	629		GUB3 _c
587		GI6	610		GIŠ	630		GUB3 _d
587.1		GI6 v1	611		GIŠ tenû	631		GUG2
588		GI4 _a	612		GIŠ _x	631.1		GUG2 v1
589		GI4 _b	613		GIŠ3 _a	632		GUG2 tenû
590		GIBIL	614		GIŠ3 _b	633		GUKKAL _a
591		GIBIL tenû	615		GIŠGAL	634		GUKKAL _b
592		GIBIL6	615.1		GIŠGAL v1	635		GUKKAL _c
593		GIG	616		GIŠIMMAR _{a1}	636		GUKKAL _d
594		GIL	617		GIŠIMMAR _{a2}	637		GUL
595		GIR _a	618		GIŠIMMAR _{a3}	638		GUM _a
596		GIR _b	619		GIŠIMMAR _{b1}	639		GUM _b
596.1		GIR _b v1	619.1		GIŠIMMAR _{b1} v1	639.1		GUM _b v1
597		GIR _c	619.2		GIŠIMMAR _{b1} v2	640		GUM _b nutillû
598		GIR _d	620		GIŠIMMAR _{b3}	640.1		GUM _b nutillû v1
599		GIR3 gunû _a	621		GIZZAL _x	641		GUN3 _a
600		GIR3 gunû _b	622		GU	642		GUN3 _b
601		GIR3 gunû _c	623		GU2			

643		GUR	666		IM _a	683		KA2 _c
644		GURUŠ _a	667		IM _a gunû	684		KA2 _d
644.1		GURUŠ _a v1	668		IM _b	685		KAB
645		GURUŠ _b	669		IN _b	686		KAD4 _a
646		GURUŠDA	669.1		IN _b v1	687		KAD4 _b
647		HAL	670		IN _d	688		KAD4 _{c1}
648		HALUB	671		IR _a	689		KAD4 _{c2}
649		HAŠHUR	672		IR _b	690		KAK _a
650		HI	673		IR _c	691		KAK _b
651		HI gunû _a	674		IR _d	692		KAL _a
652		HI gunû _b	675		IR11	693		KAL _{b1}
653		HI gunû _c	675.1		IR11 v1	693.1		KAL _{b1} v1
654		HUB2	676		IRHAN	694		KAL _{b2}
655		I	677		IŠ _a	695		KALAM _a
656		IB _a	677.1		IŠ _a v1	696		KALAM _b
657		IB _a nutillû	678		IŠ _b	697		KALAM _c
658		IB _b	678.1		IŠ _b v1	698		KALAM _d
659		IDIGNA	678.2		IŠ _b v2	699		KALAM _e
659.1		IDIGNA v1	678.3		IŠ _b v3	700		KALAM _f
660		IG _a	678.4		IŠ _b v4	701		KAR
661		IG _b	678.5		IŠ _b v5	702		KAR2 _a
662		IGI	679		IŠ _c	703		KAR2 _b
663		IL	680		KA _a	704		KASKAL
664		ILDUM _a	681		KA2 _a	705		KASKAL gunû
665		ILDUM _b	682		KA2 _b	706		KAŠ _a

706.1		KAŠ _a v1	729		KISAL _{a2}	749		KU6 _c
707		KAŠ _b	730		KISAL _{b1}	750		KU6 _d
707.1		KAŠ _b v1	731		KISAL _{b2}	751		KUN
708		KAŠ _b tenû	732		KISAL _{b2} tenû	752		KUR gunû _a
709		KAŠ _c	733		KISAL _{b3}	753		KUR gunû _b
710		KAŠ _d	734		KISIM _a	754		KUR _a
711		KEŠ2	735		KISIM _b	755		KUR _b
712		KI	735.1		KISIM _b v1	756		KUR _c
713		KI nutillû	735.2		KISIM _b v2	756.1		KUR _c v1
714		KIB	735.3		KISIM _b v3	757		KUR _d
715		KIB gunû	736		KISIM _c	758		KUŠU2 _a
716		KID _a	737		KIŠ	759		KUŠU2 _b
717		KID _b	737.1		KIŠ v1	760		KUŠU2 _c
718		KID _c	738		KIŠIK _a	761		KUŠU2 _d
719		KID _d	739		KIŠIK _b	762		KUŠU2 _e
720		KID _e	740		KITI	763		KUŠU2 _f
721		KIN	740.1		KITI v1	764		LA _b
722		KIN2 _a	741		KU _a	765		LA _c
723		KIN2 _c	742		KU _a tenû	766		LA _d
724		KIN2 _d	743		KU _{b1}	767		LA _e
725		KIN2 _e	744		KU _{b2}	768		LA2
726		KINGAL	745		KU3 _a	769		LAGAB _a
726.1		KINGAL v1	746		KU3 _c	770		LAGAB _b
727		KIR11	747		KU6 _a	771		LAGAR _a
728		KISAL _{a1}	748		KU6 _a šeššig	772		LAGAR _a reversed

773		LAGAR _{b1}	795		LIŠ	815		MEN _a
774		LAGAR _{b2}	796		LU2	815.1		MEN _a v1
775		LAGAR _c	796.1		LU2 v1	816		MEN _b
776		LAHTAN2	796.2		LU2 v2	817		MES
777		LAK 25	797		LU2 tenû	817.1		MES v1
778		LAK 50	798		LUGAL	818		MIR _a
779		LAK 172	798.1		LUGAL v1	819		MIR _b
780		LAK 251	799		LUM	820		MU
781		LAK 350	800		MA	821		MUD
782		LAK 777	800.1		MA v1	821.1		MUD v1
783		LAL2 _a	801		MA2	822		MUD3 _a
784		LAL2 _b	802		MAGUR _a	823		MUD3 _a gunû
785		LAL3 _a	803		MAGUR _b	824		MUD3 _b
786		LAL3 _b	804		MAH _a	825		MUD3 _c
787		LAL3 _c	805		MAH _b	826		MUD3 _d
788		LAM _a	806		MAR _a	827		MUL
789		LAM _b	806.1		MAR _a v1	828		MUN _{a1}
789.1		LAM _b v1	807		MAR _a tenû	829		MUN _{a2}
789.2		LAM _b v2	808		MAR _b	830		MUN _{a3}
790		LAM _b reversed	809		MAŠ	831		MUN _{a4}
791		LAM _b tenû	810		MAŠ2	832		MUN _b
792		LAM _b šeššig	811		MAŠ2 gunû	833		MUNŠUB _a
793		LAM _c	812		ME _a	834		MUNŠUB _b
794		LI	813		ME _b	835		MUNU3
794.1		LI v1	814		ME3	836		MURUB2

837		MUŠ	853		NAGAR _b	872		NESAG2 _a
838		MUŠ3 _a	853.1		NAGAR _b v1	872.1		NESAG2 _a v1
838.1		MUŠ3 _a v1	854		NAM _a	873		NESAG2 _b
838.2		MUŠ3 _a v2	855		NAM _b	873.1		NESAG2 _b v1
839		MUŠ3 _a gunû	856		NAM _c	874		NESAG2 _b tenû
839.1		MUŠ3 _a gunû v1	857		NAM _d	875		NI _a
840		MUŠ3 _b	858		NAM2	876		NI _a gunû
841		MUŠEN	859		NAM2 gunû	877		NI _b
842		NA _a	860		NAM2 tenû	878		NI2
843		NA _b	861		NAMEŠDA	879		NIGIN
844		NA _c	861.1		NAMEŠDA v1	880		NIM _a
845		NA _d	862		NANNA _a	881		NIM _{b1}
846		NA2 _a	862.1		NANNA _a v1	882		NIM _{b2}
846.1		NA2 _a v1	863		NANNA _b	883		NIM _{b3}
847		NA2 _{b1}	864		NANŠE _a	884		NIMGIR
848		NA2 _{b2}	865		NANŠE _b	884.1		NIMGIR v1
849		NAB	866		NAR	885		NIN
849.1		NAB v1	867		NE _a	886		NINDA2
849.2		NAB v2	867.1		NE _a v1	886.1		NINDA2 v1
850		NAGA _a	867.2		NE _a v2	887		NINKUM
851		NAGA _b	868		NE _b	888		NINLIL
852		NAGAR _a	869		NE _c	889		NIR _a
852.1		NAGAR _a v1	870		NE _d	890		NIR _b
852.2		NAGAR _a v2	871		NERGAL _x	891		NU
852.3		NAGAR _a v3						

892		NU gunû	909		PA _b	932		RU tenû
893		NU11	910		PA3	933		SA _a
894		NU11 tenû	911		PAD _a	934		SA _c
895		NUMUN	912		PAD _b	934.1		SA _c v1
896		NUMUN2	913		PAP _a	935		SAG
897		NUN _a	914		PAP _a tenû	935.1		SAG v1
898		NUN _b	915		PAP _b	935.2		SAG v2
899		NUN _c	915.1		PAP _b v1	936		SAG gunû
899.1		NUN _c v1	916		PIRIG _{a1}	937		SAG nutillû
899.2		NUN _c v2	917		PIRIG _{a2}	938		SAGŠU
899.3		NUN _c v3	918		PIRIG _{a3}	939		SAL
900		NUN _d	919		PIRIG _{b1}	940		SANGA _a
901		NUNUZ _{a0}	920		PIRIG _{b2}	940.1		SANGA _a v1
902		NUNUZ _{a1}	921		PU2	940.2		SANGA _a v2
903		NUNUZ _{a1} tenû	922		RA	941		SANGA _b
904		NUNUZ _{a2}	923		RAD _a	941.1		SANGA _b v1
905		NUNUZ _{b1}	924		RAD _a gunû	942		SANGA _c
906		NUNUZ _{b2}	925		RAD _a tenû	943		SAR _a
907		NUNUZ _c	926		RAD _b	944		SAR _b
907.1		NUNUZ _c v1	927		RI	945		SAR _c
907.2		NUNUZ _c v2	928		RI _x	946		SI
907.3		NUNUZ _c v3	929		RI8 _a	946.1		SI v1
908		PA _a	930		RI8 _b	947		SI4 _a
908.1		PA _a v1	931		RU	948		SI4 _b
908.2		PA _a v2	931.1		RU v1	949		SI4 _c

950		SI4 _d	969		SILA3 _a	991.1		SUKUD gunû _b v1
950.1		SI4 _d v1	970		SILA3 _b	992		SUKUD gunû _c
951		SI4 _f	971		SILA3 _c	993		SUKUD gunû _d
951.1		SI4 _f v1	972		SILA4 _a	994		SUM _a
952		SIG	973		SILA4 _b	994.1		SUM _a v1
953		SIG gunû	974		SILA4 _c	995		SUM _a tenû
954		SIG4	975		SILA4 _d	996		SUM _b
955		SIG7	976		SILANITA	997		SUMAŠ
955.1		SIG7 v1	977		SIMUG	998		SUR
956		SIG2 _{a1}	977.1		SIMUG v1	999		SUSA
957		SIG2 _{a2}	978		SIPA	1000		ŠA
958		SIG2 _{a3}	979		SU _a	1000.1		ŠA v1
958.1		SIG2 _{a3} v1	979.1		SU _a v1	1000.2		ŠA v2
958.2		SIG2 _{a3} v2	980		SU _b	1001		ŠA gunû
959		SIG2 _{a4}	981		SU3	1002		ŠA3 _{a1}
960		SIG2 _b	982		SUG	1003		ŠA3 _{a2}
961		SIG2 _{c1}	983		SUG5	1004		ŠA3 _b
962		SIG2 _{c2}	984		SUH3	1005		ŠA3 _c
963		SIG2 _{d1}	985		SUHUR	1006		ŠA3 _d
964		SIG2 _{d2}	986		SUHUR gunû	1007		ŠAB _a
964.1		SIG2 _{d2} v1	987		SUHUR nutillû	1007.1		ŠAB _a v1
965		SIG2 _{d3}	988		SUKKAL	1008		ŠAB _b
966		SIG2 _{d4}	989		SUKUD	1008.1		ŠAB _b v1
967		SIG2 _e	990		SUKUD gunû _a	1009		ŠAGAN
968		SIKIL	991		SUKUD gunû _b	1009.1		ŠAGAN v1

1010		ŠAGINA	1031		ŠEN _c tenû	1047		ŠITA _{a2}
1011		ŠAH2 _a	1032		ŠEN _d	1048		ŠITA _{a3}
1012		ŠAH2 _b	1032.1		ŠEN _d v1	1049		ŠITA _{b1}
1013		ŠAH2 _c	1032.2		ŠEN _d v2	1050		ŠITA _{b2}
1014		ŠAKIR _a	1033		ŠEN _e	1051		ŠITA _{b3}
1015		ŠAKIR _b	1034		ŠENNUR _a	1052		ŠITA _c
1016		ŠAKIR _c	1035		ŠENNUR _b	1053		ŠU
1017		ŠAM2	1036		ŠEŠ _a	1054		ŠU gunû
1018		ŠANDANA _a	1036.1		ŠEŠ _a v1	1055		ŠU2
1019		ŠANDANA _b	1037		ŠEŠ _b	1055.1		ŠU2 v1
1020		ŠE _a	1038		ŠIDIM	1056		ŠU12
1021		ŠE _a tenû	1039		ŠIDIM tenû	1057		ŠU šeššig
1022		ŠE _b	1040		ŠIM _a	1058		ŠUBUR
1023		ŠE _c	1040.1		ŠIM _a v1	1059		ŠUM
1024		ŠE3	1040.2		ŠIM _a v2	1060		ŠUR2 _a
1024.1		ŠE3 v1	1041		ŠIM _b	1061		ŠUR2 _b
1025		ŠE3 tenû	1042		ŠIR _a	1062		ŠURUPPAK _a
1025.1		ŠE3 tenû v1	1042.1		ŠIR _a v1	1062.1		ŠURUPPAK _a v1
1026		ŠEG9	1043		ŠIR _b	1063		ŠURUPPAK _b
1027		ŠELU	1043.1		ŠIR _b v1	1063.1		ŠURUPPAK _b v1
1028		ŠEN _a	1043.2		ŠIR _b v2	1064		ŠURUPPAK _c
1028.1		ŠEN _a v1	1044		ŠITA gunû _a	1065		TA _a
1029		ŠEN _b	1044.1		ŠITA gunû _a v1	1066		TA _b
1029.1		ŠEN _b v1	1045		ŠITA gunû _b	1067		TA _c
1030		ŠEN _c	1046		ŠITA _{a1}	1068		TA _d

1069		TA _e	1092		TU _b	1113		U4
1070		TA _f	1093		TU _c	1114		U4 tenû
1071		TAG _{a1}	1094		TUG2 _a	1115		U8
1072		TAG _{a1} tenû	1095		TUG2 _a gunû	1115.1		U8 v1
1073		TAG _{a2}	1095.1		TUG2 _a gunû v1	1115.2		U8 v2
1074		TAG _{a3}	1096		TUG2 _b	1115.3		U8 v3
1075		TAG _{a4}	1097		TUG2 _c	1116		U2 _a
1076		TAG _b	1098		TUG2 _d	1117		U2 _b
1077		TAG _c	1099		TUM _a	1117.1		U2 _b v1
1078		TAG _d	1100		TUM _a gunû	1117.2		U2 _b v2
1079		TAK4 _a	1101		TUM _b	1118		U2 _c
1079.1		TAK4 _a v1	1102		TUM _c	1119		UB
1080		TAK4 _a nutillû	1103		TUM _d	1120		UBI _a
1081		TAK4 _c	1104		TUN3 _a	1121		UBI _c
1082		TAR _a	1105		TUN3 _b	1121.1		UBI _c v1
1083		TAR _d	1106		TUN3 _c	1122		UD5 _a
1084		TE	1107		TUR	1122.1		UD5 _a v1
1085		TI	1107.1		TUR v1	1122.2		UD5 _a v2
1085.1		TI v1	1107.2		TUR v2	1123		UD5 _a gunû
1086		TI gunû	1107.3		TUR v3	1124		UD5 _b
1087		TI reversed	1108		TUR gunû	1125		UD5 _c
1088		TI tenû	1109		TUR3 _a	1126		UDU _a
1089		TIDNUM	1110		TUR3 _a nutillû	1127		UDU _b
1090		TILLA2	1111		TUR3 _b	1128		UDU _c
1091		TU _a	1112		TUR3 _c	1129		UDUNITA _a

1130		UDUNITA _b	1151		UR _b	1174		URU _c
1131		UDUNITA _c	1152		UR _c	1175		URUDU gunû _a
1132		UET2_405	1153		UR2	1176		URUDU gunû _b
1133		UH	1154		UR3 _{a1}	1177		URUDU gunû _c
1134		UH3 _a	1154.1		UR3 _{a1} v1	1178		URUDU gunû _d
1135		UH3 _a tenû	1155		UR3 _{a2}	1179		URUDU _a
1136		UH3 _b	1156		UR3 _{a3}	1179.1		URUDU _a v1
1137		UKKIN _a	1157		UR3 _{b1}	1179.2		URUDU _a v2
1137.1		UKKIN _a v1	1158		UR3 _{b2}	1180		URUDU _c
1138		UKKIN _b	1159		UR4 _a	1181		URUDU _d
1138.1		UKKIN _b v1	1160		UR4 _b	1182		UŠ _a
1139		UKKIN _c	1161		UR4 _c	1183		UŠ _b
1140		UMBIN _a	1162		UR5 _a	1183.1		UŠ _b v1
1141		UMBIN _{b1}	1163		UR5 _b	1184		UŠUMGAL
1142		UMBIN _{b2}	1164		URI	1185		UŠUR3 _a
1143		UMBIN _c	1165		URI2	1186		UŠUR3 _{b1}
1144		UMUN2	1166		URI5	1187		UŠUR3 _{b2}
1144.1		UMUN2 v1	1167		URI3 _a	1188		UTUA _a
1145		UNUG _a	1167.1		URI3 _a v1	1189		UTUA _a tenû
1145.1		UNUG _a v1	1168		URI3 _b	1190		UTUA _b
1146		UNUG _a šeššig	1169		URU _{a1}	1190.1		UTUA _b v1
1147		UNUG _b	1170		URU _{a1} nutillû	1191		UTUL _a
1148		UNUG _c	1171		URU _{a2}	1192		UTUL _b
1149		UR _a	1172		URU _{b1}	1193		UTUL _c
1150		UR _a gunû	1173		URU _{b2}	1194		UTUL _d

1195		UZU	1215		ZATU634	1232.3		ZATU662 v3
1196		ZA _x	1216		ZATU635	1233		ZATU664
1197		ZABALAM _a	1217		ZATU636	1234		ZATU665
1198		ZABALAM _b	1217.1		ZATU636 v1	1235		ZATU666
1199		ZADIM	1218		ZATU637	1236		ZATU667
1200		ZAG _a	1219		ZATU639	1237		ZATU668
1200.1		ZAG _a v1	1220		ZATU640	1238		ZATU669
1201		ZAG _b	1221		ZATU641	1239		ZATU670
1202		ZAG _c	1222		ZATU642	1240		ZATU672
1203		ZAR _a	1223		ZATU643	1241		ZATU674
1204		ZAR _{b1}	1224		ZATU646	1242		ZATU678
1205		ZAR _{b2}	1225		ZATU647	1243		ZATU679
1206		ZAR _c	1225.1		ZATU647 v1	1244		ZATU681
1207		ZATU620	1226		ZATU648	1245		ZATU682
1208		ZATU622	1227		ZATU649	1246		ZATU683 tenû
1209		ZATU623	1227.1		ZATU649 v1	1247		ZATU684
1209.1		ZATU623 v1	1228		ZATU650	1248		ZATU685
1209.2		ZATU623 v2	1229		ZATU651	1249		ZATU687
1210		ZATU625	1229.1		ZATU651 v1	1250		ZATU689
1210.1		ZATU625 v1	1229.2		ZATU651 v2	1251		ZATU690
1211		ZATU627	1230		ZATU651 gunû	1252		ZATU691
1212		ZATU629	1231		ZATU659	1253		ZATU692
1212.1		ZATU629 v1	1232		ZATU662	1254		ZATU693
1213		ZATU630	1232.1		ZATU662 v1	1254.1		ZATU693 v1
1214		ZATU631	1232.2		ZATU662 v2	1254.2		ZATU693 v2

1255		ZATU693 tenû	1278		ZATU724	1293.1		ZATU757 v1
1256		ZATU695	1279		ZATU725	1294		ZATU758
1257		ZATU696	1279.1		ZATU725 v1	1295		ZATU759
1258		ZATU700	1280		ZATU727	1295.1		ZATU759 v1
1259		ZATU701	1281		ZATU728	1296		ZATU761
1260		ZATU702	1282		ZATU729	1297		ZATU764
1261		ZATU703	1282.1		ZATU729 v1	1298		ZATU765
1262		ZATU704	1283		ZATU730	1299		ZATU766
1263		ZATU705	1284		ZATU732	1300		ZATU767
1264		ZATU706	1285		ZATU733	1301		ZATU768
1265		ZATU708	1286		ZATU734	1302		ZATU769
1266		ZATU709	1287		ZATU737	1303		ZATU771
1267		ZATU710	1287.1		ZATU737 v1	1304		ZATU772
1267.1		ZATU710 v1	1287.2		ZATU737 v2	1305		ZATU774
1268		ZATU711	1288		ZATU750	1306		ZATU775
1268.1		ZATU711 v1	1288.1		ZATU750 v1	1307		ZATU776
1269		ZATU713	1288.2		ZATU750 v2	1307.1		ZATU776 v1
1270		ZATU714	1288.3		ZATU750 v3	1308		ZATU777
1271		ZATU717	1289		ZATU752	1308.1		ZATU777 v1
1272		ZATU718	1289.1		ZATU752 v1	1308.2		ZATU777 v2
1273		ZATU719	1290		ZATU753	1309		ZATU778
1274		ZATU720	1291		ZATU754	1310		ZATU779
1275		ZATU721	1292		ZATU756	1311		ZATU780
1276		ZATU722	1292.1		ZATU756 v1	1312		ZATU781
1277		ZATU723	1293		ZATU757	1313		ZATU782

1314		ZATU783	1339		ZATU812	1363		ZATU840
1315		ZATU784	1340		ZATU813	1364		ZATU841
1316		ZATU785	1341		ZATU814	1365		ZATU842
1317		ZATU786	1342		ZATU815	1366		ZATU843
1318		ZATU787	1343		ZATU817	1367		ZATU844
1319		ZATU788	1344		ZATU818	1368		ZATU845
1320		ZATU789	1345		ZATU819	1369		ZATU846
1321		ZATU791	1346		ZATU820	1370		ZATU847
1322		ZATU792	1347		ZATU821	1371		ZATU848
1323		ZATU795	1348		ZATU822	1372		ZATU849
1324		ZATU797	1349		ZATU823	1373		ZATU850
1325		ZATU798	1350		ZATU824	1374		ZATU851
1326		ZATU799	1351		ZATU825	1375		ZATU852
1327		ZATU800	1352		ZATU826	1376		ZATU853
1328		ZATU801	1353		ZATU829	1377		ZATU854
1329		ZATU802	1354		ZATU831	1378		ZATU855
1330		ZATU803	1355		ZATU831 gunû	1379		ZATU621 _a
1331		ZATU804	1356		ZATU832	1380		ZATU621 _b
1332		ZATU805	1357		ZATU833	1381		ZATU621 _c
1333		ZATU806	1358		ZATU834	1382		ZATU621 _d
1334		ZATU807	1359		ZATU835	1383		ZATU624 _a
1335		ZATU808	1360		ZATU836	1384		ZATU624 _b
1336		ZATU809	1361		ZATU838	1385		ZATU624 _c
1337		ZATU810	1362		ZATU839	1386		ZATU626 _a
1338		ZATU811	1362.1		ZATU839 v1	1387		ZATU626 _b

1388		ZATU626 _c	1409		ZATU680 _d	1430		ZATU726 _a
1389		ZATU628 _a	1410		ZATU680 _e	1431		ZATU726 _c
1389.1		ZATU628 _a v1	1411		ZATU683 _a	1432		ZATU726 _d
1390		ZATU628 _b	1412		ZATU683 _b	1433		ZATU735 _a
1391		ZATU632 _a	1413		ZATU686 _a	1434		ZATU735 _b
1391.1		ZATU632 _a v1	1414		ZATU686 _b	1434.1		ZATU735 _b v1
1392		ZATU632 _b	1415		ZATU686 _c	1434.2		ZATU735 _b v2
1393		ZATU632 _c	1416		ZATU688 _a	1435		ZATU735 _c
1394		ZATU633 _a	1417		ZATU688 _b	1436		ZATU736 _a
1395		ZATU633 _b	1418		ZATU694 _a	1437		ZATU736 _b
1396		ZATU644 _a	1419		ZATU694 _b	1438		ZATU749 _a
1397		ZATU644 _b	1420		ZATU694 _c	1438.1		ZATU749 _a v1
1398		ZATU675 _a	1420.1		ZATU694 _c v1	1438.2		ZATU749 _a v2
1399		ZATU675 _b	1421		ZATU694 _d	1439		ZATU749 _b
1399.1		ZATU675 _b v1	1422		ZATU694 _d tenû	1440		ZATU749 _c
1400		ZATU675 _c	1423		ZATU697 _a	1441		ZATU751 _a
1401		ZATU675 _d	1423.1		ZATU697 _a v1	1442		ZATU751 _b
1402		ZATU676 _a	1423.2		ZATU697 _a v2	1443		ZATU755 _a
1403		ZATU676 _b	1423.3		ZATU697 _a v3	1444		ZATU755 _b
1404		ZATU677 _a	1424		ZATU697 _b	1445		ZATU762 _a
1405		ZATU677 _b	1425		ZATU697 _c	1445.1		ZATU762 _a v1
1406		ZATU680 _{a1}	1426		ZATU699 _a	1445.2		ZATU762 _a v2
1407		ZATU680 _{a2}	1427		ZATU699 _b	1446		ZATU762 _b
1408		ZATU680 _b	1428		ZATU707 _a	1447		ZATU773 _a
1408.1		ZATU680 _b v1	1429		ZATU707 _b	1447.1		ZATU773 _a v1

1448		ZATU773 _b	1451.1		ZI _a v1	1455		ZUBI _b
1449		ZATU837 _a	1452		ZI _b			
1450		ZATU837 _b	1453		ZI _d			
1451		ZI _a	1454		ZUBI _a			

4.3 Compound signs

1456		1N ₂ · RU	1472		3N ₅₇ · GAR
1457		1N ₈ flat × 1N ₅₇	1473		3N ₅₇ · NUNUZ _{a1}
1458		1N ₃₄ × 1N ₅₈	1474		3N ₅₇ · NUNUZ _c
1459		1N ₅₇ · 1N ₅₇	1475		3N ₅₇ · PIRIG _{b1}
1460		1N ₅₇ · AB2	1476		3N ₅₇ · ŠUBUR
1461		1N ₅₇ · ŠAH2 _a	1477		3N ₅₈ · UR3 _{b1}
1462		1N ₅₇ · ŠUBUR	1478		4N ₅₇ · AMAR
1462.1		1N ₅₇ · ŠUBUR v1	1479		4N ₅₇ · GAR
1463		1N ₅₈ · BAD _a	1480		4N ₅₇ · KU3 _a
1464		1N ₅₈ · BAD _b	1481		4N ₅₇ · NI _b
1464.1		1N ₅₈ · BAD _b v1	1482		5N ₅₇ · GAR
1465		2N ₅₇ · AB2	1483		5N ₅₇ · KU3 _a
1466		2N ₅₇ · KU6 _a	1484		6N ₅₇ · GAR
1467		2N ₅₇ · SU _a	1485		6N ₅₇ · KU3 _a
1468		2N ₅₇ · ŠUBUR	1486		8N ₅₇ · NI _b
1469		3N ₅₇ · AMAR	1487		A × 1N ₁₄
1470		3N ₅₇ · BARA3	1488		A × AB2
1471		3N ₅₇ · E2 _b	1489		A × AN

1490		$A \times EN_a$	1513		$BU_a \times GIS \text{ tenû}$
1491		$A \times ŠUBUR$	1514		$(BU_a \& BU_a) \cdot NA2_a$
1492		$A \times ZATU672$	1514.1		$(BU_a \& BU_a) \cdot NA2_a \text{ v1}$
1493		$AB_a \times 1N_1$	1515		$(BU_a \& BU_a) \cdot NA2_a \text{ nutillû}$
1494		$AB_a \times A \text{ tenû}$	1516		$(BU_a \& BU_a) \cdot NA2_b$
1495		$AB_a \times AŠ2$	1517		$BU_b \cdot NA2_a$
1496		$AB_a \times KU6_a$	1518		$DA_a \cdot LIŠ$
1497		$AB_a \times SUKKAL$	1519		$DAR_a \times A$
1498		$AB_a \times (ŠE_a \& ŠE_a)$	1520		$DARA3_c \times KAR2$
1499		$AB_a \times ZATU659$	1521		$DARA3_c \times (KAR2 \cdot ŠE_a)$
1500		$AB_b \times A$	1522		$DARA3_d \times KAR2$
1501		$AB_b \times KU6_a$	1522.1		$DARA3_d \times KAR2 \text{ v1}$
1502		$AB_b \times ŠA3_{a1}$	1522.2		$DARA3_d \times KAR2 \text{ v2}$
1503		$AB2 \times 2N_{14}$	1523		$DARA3_d \times (KAR2 \cdot ŠE_a)$
1503.1		$AB2 \times 2N_{14} \text{ v1}$	1524		$DIM_a \times GU$
1504		$AMA_a \times E2_a$	1525		$DU \times DIŠ$
1505		$AMAR \times TAR$	1526		$DU6_a \times DIŠ$
1506		$AMAR \& AMAR$	1527		$DU8_c \times HI$
1507		$AMAR \cdot 1N_2$	1528		$DU8_c \times UDU_a$
1508		$APIN_a \cdot APIN_a$	1529		$(DUB \times DIŠ)_a$
1509		$BAD \& BAD$	1530		$(DUB \times DIŠ)_b$
1510		$BU_a + DU6_a$	1531		$(DUB \times DIŠ)_c$
1510.1		$BU_a + DU6_a \text{ v1}$	1532		$DUG_a \times 1N_{57}$
1511		$BU_a \times 1N_{58}$	1533		$DUG_a \times HI$
1512		$BU_a \times A$	1534		$DUG_a \times KASKAL$

1535		$DUG_a \times LAM_b$	1556.1		$DUG_b \times HI \ v1$
1536		$DUG_a \times NAGA_a$	1557		$DUG_b \times HI \ gunû_a$
1537		$DUG_a \times U2_a$	1558		$DUG_b \times KASKAL$
1538		$DUG_a \times U2_b$	1559		$DUG_b \times KU6_a$
1539		$DUG_b \times 1N_{57}$	1560		$DUG_b \times KUR \ gunû_a$
1539.1		$DUG_b \times 1N_{57} \ v1$	1561		$DUG_b \times KUR_a$
1540		$DUG_b \times (1N_{57} \cdot KU3_a)$	1562		$DUG_b \times KUR_b$
1541		$DUG_b \times 3N_{57}$	1563		$DUG_b \times LAM_a$
1542		$DUG_b \times AB2$	1564		$DUG_b \times MAŠ$
1543		$DUG_b \times ANŠE_b$	1564.1		$DUG_b \times MAŠ \ v1$
1544		$DUG_b \times ANŠE_d$	1565		$DUG_b \times NAGA_a$
1545		$DUG_b \times BALA_a$	1566		$DUG_b \times NAM2$
1546		$DUG_b \times BIR3_c$	1567		$DUG_b \times (NI_a \ gunû \cdot ZATU779)$
1547		$DUG_b \times DIN$	1568		$DUG_b \times SA_a$
1547.1		$DUG_b \times DIN \ v1$	1569		$DUG_b \times SI4_a$
1548		$(DUG_b \times DIN) \text{ reversed}$	1570		$DUG_b \times SIG7$
1549		$DUG_b \times E_a$	1571		$DUG_b \times SIG2_{a1}$
1550		$DUG_b \times GA_a$	1572		$DUG_b \times SIG2_{a2}$
1551		$DUG_b \times GA_b$	1573		$DUG_b \times SUHUR$
1552		$DUG_b \times GEŠTU_a$	1574		$DUG_b \times ŠAH2_a$
1552.1		$DUG_b \times GEŠTU_a \ v1$	1575		$DUG_b \times ŠE_a$
1553		$DUG_b \times GEŠTU_b$	1575.1		$DUG_b \times ŠE_a \ v1$
1554		$DUG_b \times GI6$	1575.2		$DUG_b \times ŠE_a \ v2$
1555		$DUG_b \times GIŠ$	1576		$DUG_b \times (ŠE_a \cdot NAM2)$
1556		$DUG_b \times HI$	1577		$DUG_b \times TAK4_a$

1578		$DUG_b \times (TAK4_a \cdot SA_a)$	1600		$EN2 \cdot E2_b$
1579		$DUG_b \times (TAK4_a \cdot SAL)$	1601		$E\check{S}DA \times TAR$
1580		$DUG_b \times TI$	1602		$EZEN_a \times EN_a$
1581		$DUG_b \times U2_a$	1603		$EZEN_a \times EN_b$
1582		$DUG_b \times U2_b$	1604		$EZEN_a \times (HI \cdot 1N_{57} \cdot AN)$
1582.1		$DUG_b \times U2_b \text{ v1}$	1605		$EZEN_a \times KAB$
1583		$DUG_b \times UH3_a$	1606		$EZEN_a \times KI$
1584		$DUG_b \times UH3_a \text{ tenû}$	1607		$EZEN_a \times LA_e$
1585		$DUG_b \times ZATU764$	1607.1		$EZEN_a \times LA_e \text{ v1}$
1586		$DUG_b \times ZATU779$	1608		$EZEN_a \times NIM_{b2}$
1587		$DUG_b \times ZATU780$	1609		$EZEN_a \times NIMGIR$
1588		$DUG_b \times ZATU781$	1610		$EZEN_a \times RAD_a$
1589		$DUG_b \times (ZATU789 \cdot SA_a)$	1611		$EZEN_a \times SAG$
1590		$DUG_b \times ZATU707_a$	1612		$EZEN_a \times SU_a$
1591		$(DUG_b \& DUG_b) \times 1N_{58}$	1613		$EZEN_a \times U4$
1592		$DUG_c \times 1N_{57}$	1614		$EZEN_a \times (U2_b \cdot A)$
1592.1		$DUG_c \times 1N_{57} \text{ v1}$	1615		$EZEN_b \times 6N_{57}$
1592.2		$DUG_c \times 1N_{57} \text{ v2}$	1615.1		$EZEN_b \times 6N_{57} \text{ v1}$
1593		$E2_a \times 1N_{57} \text{ tenû}$	1616		$GA_a \cdot ZATU753$
1594		$E2_a \times 3N_{58}$	1616.1		$GA_a \cdot ZATU753 \text{ v1}$
1595		$E2_a \cdot LI\check{S}$	1617		$GA_c \times 1N_{14}$
1596		$E2_b \times 1N_{57} \text{ tenû}$	1618		$GA_c \times KASKAL$
1597		$E2_b \cdot LI\check{S}$	1619		$GA2_{a1} \times 1N_{14}$
1598		$EN_c \& EN_c$	1620		$GA2_{a1} \times 1N_{57}$
1599		$EN2 \cdot E2_a$	1621		$GA2_{a1} \times A$

1622		$GA2_{a1} \times EN_b$	1647		$GA2_{a1} \times \check{S}A$
1623		$GA2_{a1} \times GE\check{S}TU_{c3}$	1648		$GA2_{a1} \times TI$
1624		$GA2_{a1} \times GE\check{S}TU_{c5}$	1649		$GA2_{a1} \times U4$
1625		$GA2_{a1} \times GIR_a$	1650		$GA2_{a2} \times 3N_{57}$
1626		$GA2_{a1} \times (GIR_a \cdot KU6_a)$	1651		$GA2_{a2} \times GU4$
1627		$GA2_{a1} \times GI\check{S} \text{ ten}\hat{u}$	1652		$GA2_{a2} \times (GU4 \cdot \check{S}E3)$
1628		$GA2_{a1} \times GU4$	1653		$GA2_{a2} \times NI_a$
1629		$GA2_{a1} \times HAL$	1654		$GA2_{a2} \times NI_b$
1630		$GA2_{a1} \times HI$	1655		$GA2_{a2} \times NIM_{b1}$
1631		$GA2_{a1} \times (HI \cdot SUHUR)$	1656		$GA2_{a2} \times SUHUR$
1632		$GA2_{a1} \times KU3_a$	1657		$GA2_{a2} \times \check{S}E3$
1633		$GA2_{a1} \times KU6_a$	1658		$GA2_b \times DUB_a$
1634		$GA2_{a1} \times (KU6_a \cdot KU6_a)$	1659		$GA2_b \times DUB_b$
1635		$GA2_{a1} \times LAGAB_b$	1660		$GA2_b \times KU3_a$
1636		$GA2_{a1} \times MA\check{S}$	1661		$GA2_b \times ZATU659$
1637		$GA2_{a1} \times NAGA_a$	1662		$GAN_c \times DIN$
1638		$GA2_{a1} \times NUN_a$	1663		$GAN_c \times HI$
1639		$GA2_{a1} \times PAD_b$	1664		$GAN_c \times (HI \cdot DIN)$
1640		$GA2_{a1} \times PAP_a$	1665		$GAN_c \times KA\check{S}_c$
1641		$GA2_{a1} \times SU_a$	1666		$GAN_c \times (KUR_a \cdot A)$
1642		$GA2_{a1} \times SUHUR$	1667		$GAN_c \times LAGAB_b$
1643		$GA2_{a1} \times SUKUD$	1668		$GAN_c \times NE_a$
1644		$GA2_{a1} \times (SUKUD \ \& \ SUKUD)_a$	1669		$GAN_c \times SIG7$
1645		$GA2_{a1} \times (SUKUD \ \& \ SUKUD)_b$	1670		$GAN_c \times \check{S}E_a$
1646		$GA2_{a1} \times SUMA\check{S}$	1671		$GAN_c \times \check{S}E3 \text{ ten}\hat{u}$

1672		$\text{GAN}_c \times \text{ZATU777}$	1697		$(\text{GI}\check{\text{S}} \times (\text{DIN} \cdot \text{DIN}))_a$
1673		$\text{GAN}_d \times \text{GE}\check{\text{S}}\text{TU}_a$	1698		$(\text{GI}\check{\text{S}} \times (\text{DIN} \cdot \text{DIN}))_b$
1674		$\text{GAN}_d \times \text{HI}$	1699		$(\text{GI}\check{\text{S}} \times (\text{DIN} \cdot \text{DIN}))_c$
1675		$\text{GE}\check{\text{S}}\text{TU}_a \times \check{\text{S}}\text{E}_a \text{ ten}\hat{\text{u}}$	1700		$\text{GI}\check{\text{S}} \times \check{\text{S}}\text{U}_2_a$
1676		$(\text{GI} + \& \text{GI}) \times \check{\text{S}}\text{E}3$	1701		$\text{GI}\check{\text{S}} \times \check{\text{S}}\text{U}_{2_b}$
1677		$\text{GI} \times 1\text{N}_{14}$	1702		$\text{GI}\check{\text{S}} \cdot \text{TE}$
1678		$\text{GI} \times 1\text{N}_{58} \text{ ten}\hat{\text{u}}$	1703		$\text{GI}\check{\text{S}}_3_a \& \text{GI}\check{\text{S}}_3_a$
1679		$\text{GI} \times \text{GI}\check{\text{S}} \text{ ten}\hat{\text{u}}$	1704		$\text{GU}4 \cdot \text{ZATU755}_a$
1680		$\text{GI} \times \text{KU}_{b1}$	1705		$\text{GUG}2 \times \text{SILA}3_a$
1681		$\text{GI} \times \text{LAGAB}_a$	1706		$\text{GUG}2 \times \check{\text{S}}\text{ITA}_{a1}$
1682		$\text{GI} \times \text{NAM}2$	1707		$\text{GUG}2 \times \text{TUR}$
1683		$\text{GI} \times \text{SIG}2_{d1}$	1708		$\text{GUKKAL}_a \cdot \text{HI} \text{ gun}\hat{\text{u}}_a$
1684		$\text{GI} \times \check{\text{S}}\text{E}3$	1709		$\text{GURU}\check{\text{S}}_a \times 2\text{N}_{14}$
1685		$\text{GI} \& \text{GI}$	1710		$\text{GURU}\check{\text{S}}_b \times 2\text{N}_{14}$
1686		$(\text{GI} \& \text{GI}) \times \text{GI}\check{\text{S}} \text{ ten}\hat{\text{u}}$	1711		$\text{GURU}\check{\text{S}}_c \times 2\text{N}_{14}$
1687		$\text{GI} \& \text{GI} \& \text{GI}$	1712		$\text{HA}\check{\text{S}}\text{HUR} \times \text{MA}$
1688		$\text{GI}4_a \times \text{A}$	1713		$\text{HI} \times 1\text{N}_{1f}$
1689		$\text{GI}4_a \& \text{GI}4_a$	1714		$\text{HI} \times 1\text{N}_{57}$
1690		$\text{GI}4_b \& \text{GI}4_b$	1715		$\text{HI} \times 1\text{N}_{57} \text{ ten}\hat{\text{u}}$
1691		$\text{GIR}_a \cdot \text{KU}6_a$	1716		$(\text{HI} \times 1\text{N}_{57}) \& (\text{HI} + 1\text{N}_{57})$
1692		$\text{GIR}_b \cdot \text{GIR}_b$	1717		$\text{HI} \times 1\text{N}_{58}$
1693		$\text{GIR}3_a \times \check{\text{S}}\text{E}_b$	1718		$\text{HI} \times \text{LAGAB}_a$
1694		$\text{GIR}3_c \times \text{KAR}2$	1719		$\text{HI} \times \check{\text{S}}\text{E}3 \text{ ten}\hat{\text{u}}$
1695		$\text{GIR}3_c \times \check{\text{S}}\text{E}3$	1720		$\text{HI} \times \text{ZATU707}_a$
1696		$\text{GI}\check{\text{S}} \text{ ten}\hat{\text{u}} \cdot \text{E}2_a$	1721		$\text{HI} \cdot \text{SUHUR}$

1721.1		HI · SUHUR v1	1744		LAGAB _a × LAGAB _a
1721.2		HI · SUHUR v2	1745		LAGAB _a × ME _a
1722		IR _a · GA2 _{a1}	1746		LAGAB _a × NUN _b
1723		KA _a × SAR _a	1747		LAGAB _a × PA _a
1724		KA _a · ŠE _a	1748		LAGAB _a × SI
1724.1		KA _a · ŠE _a v1	1749		LAGAB _a × SIG7
1725		KA2 × LAM	1750		LAGAB _a × SU _a
1726		KAB × 1N ₅₈	1751		LAGAB _a × ŠA
1727		KAK _a · GA2 _{a1}	1752		LAGAB _a × ŠITA _{a1}
1728		KAŠ _b × ŠE _a	1753		LAGAB _a × TI
1729		KI nutillû × DUB _a	1754		LAGAB _a × U4
1730		KU6 _a + GIŠ	1755		LAGAB _a × UB
1731		KU6 _a + KU6 _a	1756		LAGAB _a × ZATU753
1732		KU6 _a · 1N ₂	1757		LAGAB _b × 1N ₁
1733		KUR _a · E2 _a	1758		LAGAB _b × BANŠUR _a
1734		KUR _a · NUNUZ _{a1}	1759		LAGAB _b × GA'AR _{a1}
1735		KUR _b · E2 _a	1760		LAGAB _b × HI
1736		LAGAB _a × 2N ₁₄	1761		LAGAB _b × KUR _e
1737		LAGAB _a × BA	1762		LAGAB _b × LAGAB _b
1738		LAGAB _a × BIR3 _b	1763		LAGAB _b × PA _a
1739		LAGAB _a × DU6 _b	1764		LAGAB _b × SI
1740		LAGAB _a × KAK _a	1765		LAGAB _b × SUH3
1741		LAGAB _a × KU6 _a	1766		LAGAB _b × ŠITA _c
1742		LAGAB _a × (KU6 _a + KU6 _a)	1767		LAGAB _b × U4
1743		LAGAB _a × KUŠU2 _b	1768		LAL2 _a × EZEN _a

1769		LAL2 _a × NIM _{b2}
1770		LU2 × GEŠTU _{c3}
1771		MA × 1N ₅₈
1772		MA × 2N ₅₇
1773		MA × A
1774		MA × MA
1775		MAH _a × AB2
1776		MAH _a × GUKKAL _a
1777		MAH _a × KU6 _a
1778		MAH _a × MAŠ
1779		MAH _a × NA _a
1780		MAH _a × (SILA3 _a × UMBIN _a)
1781		MAH _a × TUG2 _a
1782		MAH _a × UD5 _a
1783		MAH _a × UDU _a
1784		MAH _a × UR _a
1785		MAH _a × UTUA _a
1786		MAH _a × ZATU659
1787		MAH _b × KU6 _a
1788		MAH _b × MAŠ
1789		MAH _b × NA _a
1790		MAH _b × SAL
1791		MAR _b × (LAGAB _b · ŠE3)
1792		MAR _b × ŠE _a
1793		MUD3 _a gunû × GU

1794		MUŠEN × 1N ₅₇
1795		MUŠEN × 2N ₅₇
1796		MUŠEN × 3N ₅₇
1797		MUŠEN × PAP _a
1798		MUŠEN · UR3 _{b2}
1799		NAGA _a × TAK4 _a
1800		NAM2 × 1N ₁
1801		NI _a × 1N ₅₇
1802		NI _a · RU
1803		NI _b × 4N ₅₇
1804		NINDA2 × 1N ₁
1805		NINDA2 × 1N ₆
1806		NINDA2 × 1N ₈
1807		NINDA2 × 2N ₁
1808		NINDA2 × AN
1809		NINDA2 × (AN · HI)
1810		NINDA2 × (AN · ME _a)
1811		NINDA2 × BA
1812		NINDA2 × EZEN _b
1813		NINDA2 × GA'AR _{a1}
1814		NINDA2 × GAR
1815		NINDA2 × GIŠ
1816		NINDA2 × (GIŠ · DAR _a)
1817		NINDA2 × GU4
1818		NINDA2 × GUDU4

1818.1		NINDA2 × GUDU4 v1
1818.2		NINDA2 × GUDU4 v2
1818.3		NINDA2 × GUDU4 v3
1819		NINDA2 × HI
1820		NINDA2 × (HI gunû _a · 1N ₆)
1821		NINDA2 × (HI + ME _a)
1822		NINDA2 × (HI · AN · ME _a)
1823		NINDA2 × KAŠ _b
1824		NINDA2 × MAR _b
1825		NINDA2 × NE _a
1826		NINDA2 × ŠIM _a
1827		NINDA2 × U4
1828		NINDA2 × (UDU _a × TAR) _a
1829		NINDA2 × (UDU _a × TAR) _b
1830		NINDA2 × (ZATU659 × 1N ₁)
1831		NIR _a × AN
1832		NU11 & NU11
1833		NUN _a + A
1834		NUN _a + EN _a
1835		NUN _a + EN _b
1836		NUN _a + EN _d
1837		NUN _a + NAM2
1838		NUN _b + EN _a
1839		PIRIG _{b1} × UR2
1840		SAG × 1N ₁₄

1841		SAG × GEŠTU _a
1842		SAG × GEŠTU _b
1842.1		SAG × GEŠTU _b v1
1843		SAG × GEŠTU _c
1844		SAG × LAM _c
1845		SAG × MA
1846		SAG × SAR _a
1847		SAL × 1N ₅₈
1848		SAL · KUR _a
1849		SAL · LAM _b
1850		SAL · ŠU2
1851		SAR _a × ŠE _a
1852		SI × GU4
1853		SI × ŠE3
1854		SIG × 1N ₅₇
1855		SIG _{2b} × 1N ₁₄
1856		SIG _{2b} · SIG _{2b}
1857		SILA3 _a × 1N ₅₇
1858		SILA3 _a × 1N ₅₈
1859		SILA3 _a × A
1860		SILA3 _a × AMAR
1861		SILA3 _a × DUG _a
1861.1		SILA3 _a × DUG _a v1
1862		SILA3 _a × DUG _b
1863		SILA3 _a × GA _a

1864		SILA3 _a × GARA2 _a
1865		SILA3 _a × GEŠTU _a
1866		SILA3 _a × GEŠTU _{c3}
1867		SILA3 _a × GEŠTU _{c5}
1868		SILA3 _a × HAŠHUR
1869		SILA3 _a × HI
1870		SILA3 _a × HI gunû _a
1871		SILA3 _a × IB _a
1872		SILA3 _a × KAŠ _a
1873		SILA3 _a × KAŠ _c
1874		SILA3 _a × KAŠ _d
1875		SILA3 _a × KU6 _a
1876		SILA3 _a × KUR _a
1877		SILA3 _a × MA
1878		SILA3 _a × MAŠ
1879		SILA3 _a × NAGA _a
1880		SILA3 _a × NI _a
1881		SILA3 _a × NUN _b
1882		SILA3 _a × SUHUR
1883		SILA3 _a × SUM _a
1884		SILA3 _a × SUM _b
1885		SILA3 _a × ŠE _a
1886		SILA3 _a × ŠE _a tenû
1887		SILA3 _a × ŠU
1888		SILA3 _a × ŠU2

1889		SILA3 _a × ZATU629
1890		SILA3 _a × ZATU646
1891		SILA3 _a × (ZATU659 · TU _c)
1892		SILA3 _b × DUG _a
1893		SILA3 _b × GUG2
1894		SILA3 _b × NAGA _b
1895		SILA3 _b × NI _a
1896		SILA3 _b × NI _b
1897		SILA3 _c × ŠU
1898		SILA3 _c × ZATU687
1899		SILA3 _d × NI _a
1900		SU _a × 1N ₅₈
1901		(SUKUD + SUKUD) _a
1902		(SUKUD + SUKUD) _b
1903		(SUKUD + SUKUD) _c
1904		(SUKUD + SUKUD) _d
1905		(ŠA × HI gunû _a) _a
1906		(ŠA × HI gunû _a) _b
1907		ŠE _a & ŠE _a
1908		ŠE _a · KIN2 _c
1909		ŠE _a · NAM2
1909.1		ŠE _a · NAM2 v1
1910		ŠEN _d × A
1911		ŠITA gunû _a × 1N ₄
1912		ŠITA gunû _a × 1N ₆

1913		$\check{S}ITA_{a1} \times 1N_6$	1937		$U4 \times 1N_{1F}$
1914		$\check{S}ITA_{a1} \times KAK_a$	1938		$U4 \times 1N_{14}$
1915		$\check{S}ITA_{a1} \times \check{S}U$	1939		$U4 \times (1N_{14} \cdot 2N_1)$
1916		$\check{S}ITA_{a1} \times \check{S}U2$	1940		$U4 \times (1N_{14} \cdot 4N_1)$
1917		$\check{S}ITA_{a1} \times UDU_a$	1941		$U4 \times (1N_{14} \cdot 8N_1)$
1918		$\check{S}ITA_{b1} \times HI \text{ gun}\hat{u}_a$	1942		$U4 \times 1N_{57}$
1919		$\check{S}ITA_{b3} \times NAM2$	1943		$U4 \times 1N_{58} \text{ ten}\hat{u}$
1920		$\check{S}U \times 1N_{58}$	1944		$U4 \times 2N_1$
1921		$\check{S}U2 \cdot 1N_2$	1945		$U4 \times 2N_1 \cdot 2N_{14}$
1922		$\check{S}U2 \cdot 2N_{57}$	1946		$U4 \times 2N_1 \cdot (2N_{14} \cdot 1N_8)$
1923		$\check{S}U2 \cdot AN$	1947		$U4 \times 2N_{14}$
1924		$\check{S}U2 \cdot E2_a$	1948		$U4 \times (2N_{14} \cdot 4N_1)$
1925		$\check{S}U2 \cdot E2_b$	1949		$U4 \times 2N_{57}$
1926		$\check{S}U2 \cdot EN_a$	1950		$U4 \times 3N_1$
1926.1		$\check{S}U2 \cdot EN_a \text{ v1}$	1951		$U4 \times 3N_1 \cdot 3N_8$
1927		$\check{S}U2 \cdot EN_b$	1952		$U4 \times (3N_{14} \cdot 2N_1)$
1928		$\check{S}U2 \cdot GI\check{S}$	1953		$U4 \times (3N_{14} \cdot 7N_1)$
1929		$\check{S}U2 \cdot ((HI + 1N_{57}) + (HI + 1N_{57}))$	1954		$U4 \times 3N_{57}$
1930		$\check{S}U2 \cdot URI3_a$	1955		$U4 \times 4N_1$
1931		$\check{S}U \text{ \& } \check{S}U$	1956		$U4 \times 4N_1 \cdot 2N_{14}$
1932		$TA_d \times MA\check{S}$	1957		$U4 \times 4N_{57}$
1933		$TUG2_a \cdot (BAD \text{ \& } BAD)$	1958		$U4 \times 5N_1$
1934		$TUR3_b \times TAK4_a$	1959		$U4 \times 5N_1 \cdot 1N_{14}$
1935		$U4 \times 1N_1$	1960		$U4 \times 5N_{57}$
1936		$U4 \times 1N_1 \cdot 5N_8$	1961		$U4 \times 6N_1$

1962		$U4 \times 6N_{57}$	1987		$UKKIN_b \times 5N_1$
1963		$U4 \times 7N_{57}$	1988		$UKKIN_b \times DIN$
1964		$U4 \times 8N_1$	1989		$UKKIN_b \times (DIN \cdot 1N_1)$
1965		$U4 \times 8N_{57}$	1990		$UKKIN_b \times DUG_a$
1966		$U4 \times 10N_{57}$	1991		$UKKIN_b \times HI \text{ gun}\hat{u}_a$
1967		$U4 \cdot 1N_8$	1992		$UKKIN_b \times NI_a$
1968		$U4 \cdot 1N_{14}$	1993		$UNUG_a \times A \text{ ten}\hat{u}$
1969		$U4 \cdot (1N_{14} \cdot 3N_8)$	1994		$UR_a \times KAR2$
1970		$U4 \cdot (1N_{14} \cdot 4N_8)$	1995		$UR2 \times 1N_{57}$
1971		$U4 \cdot (1N_{14} \cdot 5N_8)$	1996		$UR2 \times TAR$
1972		$U4 \cdot (1N_{14} \cdot 8N_8)$	1997		$UR3_{b1} \times MA\check{S}$
1973		$U4 \cdot 2N_8$	1998		$URI3_a + IB_a$
1974		$U4 \cdot 2N_{14}$	1999		$URU_{a1} \times 1N_{57}$
1975		$U4 \cdot 3N_8$	2000		$URU_{a1} \times 2N_{57}$
1976		$U4 \cdot 4N_8$	2001		$URU_{a1} \times A$
1977		$U4 \cdot 5N_8$	2002		$URU_{a1} \times AMAR$
1978		$U4 \cdot 6N_8$	2003		$URU_{a1} \times GU4$
1979		$U4 \cdot 7N_8$	2004		$URU_{a1} \times HI \text{ gun}\hat{u}_a$
1980		$U4 \cdot 8N_8$	2005		$URU_{a1} \times NIMGIR$
1981		$U4 \cdot \check{S}U2$	2006		$URU_{a1} \times U4$
1982		$(U8 \times TAR)_b$	2007		$URU_{a2} \times 1N_{58}$
1983		$(UDU_a \times TAR)_a$	2008		$URU_{a3} \times KALAM_a$
1984		$(UDU_a \times TAR)_b$	2009		$U\check{S}_a \text{ \& } U\check{S}_a$
1985		$UKKIN_b \times 2N_1$	2010		$U\check{S}_b \times TAR_c$
1986		$UKKIN_b \times 3N_1$	2010.1		$U\check{S}_b \times TAR_c \text{ v1}$

2011		UŠ _b × TAR _d	2031		ZATU737 × E _a
2012		UŠ _b & UŠ _b	2032		ZATU737 × EN _a
2013		ZATU651 × AN	2033		ZATU737 × EN _b
2014		ZATU651 × EN _a	2034		ZATU737 × GAR
2015		ZATU651 × GAR	2034.1		ZATU737 × GAR v1
2016		ZATU651 × MA	2035		ZATU737 × NI _a gunû
2017		ZATU651 × NUN _a	2036		ZATU737 × NIMGIR
2018		ZATU651 × ŠE _a	2037		ZATU737 × SAL
2019		ZATU651 × ZAR _c	2038		ZATU737 × SU _a
2020		ZATU659 × 1N ₁	2039		ZATU737 × ŠE _a
2021		ZATU659 × 1N ₁₄	2040		ZATU737 × ŠITA gunû _a
2022		ZATU659 × 1N ₅₈ tenû	2041		ZATU737 × ŠITA _{a1}
2023		ZATU662 × 1N ₁₄	2042		ZATU737 × U4
2023.1		ZATU662 × 1N ₁₄ v1	2043		ZATU737 × UNUG _a
2023.2		ZATU662 × 1N ₁₄ v2	2044		ZATU759 × KU6 _a
2024		ZATU711 × HI gunû _a	2045		ZATU759 × (KU6 _a + KU6 _a)
2025		ZATU714 × HI gunû _a	2046		ZATU759 × KU6 _d
2026		ZATU714 · RU	2047		ZATU644 _a × 1N ₁₄
2027		ZATU737 × AB _a	2048		ZATU762 _a × NIM _a
2028		ZATU737 × BU _a	2049		ZATU762 _b × AB _a
2029		ZATU737 × BUR _a	2050		(ZU & ZU) · SAR _a
2030		ZATU737 × DI			
2030.1		ZATU737 × DI v1			

4.4 Fragmentary Signs

The following compound signs have a component with an unknown identity.

2051		$AB_a \times X$	2073		$MU\check{S}EN \times X$
2052		$(BU_a \ \& \ BU_a) \cdot X$	2074		$NI_b \times X$
2053		$DIM_a \times X$	2075		$NINDA2 \times (AN \cdot X)$
2054		$DU8_c \times X$	2076		$NINDA2 \times (HI \cdot X)$
2055		$DUG_a \times X$	2077		$NINDA2 \times (U4 \cdot X)$
2056		$DUG_b \times (KUR_a \cdot X)$	2078		$NINDA2 \times X$
2057		$DUG_b \times (SI4_a \cdot X)$	2079		$NINDA2 \times (X \cdot MA\check{S})$
2058		$DUG_b \times X$	2080		$SILA3_a \times X$
2058.1		$DUG_b \times X \ v1$	2081		$TUR \times X$
2059		$EZEN_a \times X$	2082		$U4 \times 2N_1 \cdot X$
2060		$GA_a \times X$	2083		$U4 \times 8N_1 \cdot X$
2061		$GA2_{a1} \times X$	2084		$U4 \times X$
2062		$GA2_{a2} \times X$	2085		$U4 \times (X + 2N_1)$
2063		$GA2_{a3} \times X$	2086		$U4 \times (X(N_1))$
2064		$GAN_c \times X$	2087		$UKKIN_b \times X$
2065		$GE\check{S}TIN_c \times X$	2088		$URU_{a1} \times X$
2066		$GI \times X$	2089		$X(N57) \cdot GAR$
2067		$(GI \ \& \ GI) \times X$	2090		$ZATU651 \times X$
2068		$LAGAB_a \times X$	2091		$ZATU711 \times X$
2069		$LAGAB_b \times X$	2092		$ZATU714 \times X$
2070		$MA \times X$	2093		$ZATU737 \times X$
2071		$MAH_a \times X$	2094		$ZATU759 \ tenû \times X$
2072		$MAR_b \times X$	2095		$ZATU759 \times X$

4.5 Summary of Signs with Variants

30	1N ₂₆		1: 
31	1N ₂₇		1: 
81	1N _{29a}		1: 
83	1N _{30a}		1: 
241	5N ₁₄		1: 
269	6N ₁₄		1: 
285	6N ₅₇		1: 
325	9N ₁		1: 
331	9N ₁₈		1: 
332	9N ₁₉		1: 
354	AB _a		1: 
357	AB2		1: 
358	ABGAL		1: 
380	AMA _a		1: 
382	AMAR		2:  , 
384	AN		2:  , 
393	ARARMA2 _a		1: 
406	BAHAR2 _a		1: 
407	BAHAR2 _b		1: 

410	BALA _b		1: 
411	BALAG		1: 
412	BAN _a		2:  , 
427	BARA2 _a		1: 
428	BARA2 _b		1: 
432	BIR3 _a		1: 
433	BIR3 _b		1: 
435	BU _a		1: 
459	DARA3 _c		1: 
472	DIB		1: 
473	DILMUN		2:  , 
482	DU6 _a		1: 
486	DU8 _b		1: 
488	DU8 _c gunû		1: 
490	DUB _b		4:  ,  ,  , 
496	DUG _a		2:  , 
497	DUG _b		1: 
498	DUG _c		1: 
519	EN _a		3:  ,  , 
520	EN _b		1: 
522	EN _c		1: 
527	ENKUM		1: 
538	EZEN _a		1: 

546	GA _a		4:  ,  ,  , 
566	GAN _a		1: 
567	GAN _b		3:  ,  , 
568	GAN _c		1: 
581	GEŠTU _a		2:  , 
583	GEŠTU _{c3}		1: 
585	GI		1: 
587	GI6		1: 
596	GIR _b		1: 
615	GIŠGAL		1: 
619	GIŠIMMAR _{b1}		2:  , 
624	GU4		1: 
626	GU7		1: 
631	GUG2		1: 
639	GUM _b		1: 
640	GUM _b nutillû		1: 
644	GURUŠ _a		1: 
659	IDIGNA		1: 
669	IN _b		1: 
675	IR11		1: 
677	IŠ _a		1: 
678	IŠ _b		5:  ,  ,  ,  , 
693	KAL _{b1}		1: 

706	KAŠ _a		1: 
707	KAŠ _b		1: 
726	KINGAL		1: 
735	KISIM _b		3:  ,  , 
737	KIŠ		1: 
740	KITI		1: 
756	KUR _c		1: 
789	LAM _b		2:  , 
794	LI		1: 
796	LU2		2:  , 
798	LUGAL		1: 
800	MA		1: 
806	MAR _a		1: 
815	MEN _a		1: 
817	MES		1: 
821	MUD		1: 
838	MUŠ3 _a		2:  , 
839	MUŠ3 _a gunû		1: 
846	NA2 _a		1: 
849	NAB		2:  , 
852	NAGAR _a		3:  ,  , 
853	NAGAR _b		1: 
861	NAMEŠDA		1: 

862	NANNA _a		1:
867	NE _a		2: ,
872	NESAG2 _a		1:
873	NESAG2 _b		1:
884	NIMGIR		1:
886	NINDA2		1:
899	NUN _c		3: , ,
907	NUNUZ _c		3: , ,
908	PA _a		2: ,
915	PAP _b		1:
931	RU		1:
934	SA _c		1:
935	SAG		2: ,
940	SANGA _a		2: ,
941	SANGA _b		1:
946	SI		1:
950	SI4 _d		1:
951	SI4 _f		1:
955	SIG7		1:
958	SIG2 _{a3}		2: ,
964	SIG2 _{d2}		1:
977	SIMUG		1:
979	SU _a		1:

991	SUKUD gunû _b		1: 
994	SUM _a		1: 
1000	ŠA		2:  , 
1007	ŠAB _a		1: 
1008	ŠAB _b		1: 
1009	ŠAGAN		1: 
1024	ŠE3		1: 
1025	ŠE3 tenû		1: 
1028	ŠEN _a		1: 
1029	ŠEN _b		1: 
1032	ŠEN _d		2:  , 
1036	ŠEŠ _a		1: 
1040	ŠIM _a		2:  , 
1042	ŠIR _a		1: 
1043	ŠIR _b		2:  , 
1044	ŠITA gunû _a		1: 
1055	ŠU2		1: 
1062	ŠURUPPAK _a		1: 
1063	ŠURUPPAK _b		1: 
1079	TAK4 _a		1: 
1085	TI		1: 
1095	TUG2 _a gunû		1: 
1107	TUR		3:  ,  , 

1115	U8		3:  ,  , 
1117	U2 _b		2:  , 
1121	UBI _c		1: 
1122	UD5 _a		2:  , 
1137	UKKIN _a		1: 
1138	UKKIN _b		1: 
1144	UMUN2		1: 
1145	UNUG _a		1: 
1154	UR3 _{a1}		1: 
1167	URI3 _a		1: 
1179	URUDU _a		2:  , 
1183	UŠ _b		1: 
1190	UTUA _b		1: 
1200	ZAG _a		1: 
1209	ZATU623		2:  , 
1210	ZATU625		1: 
1212	ZATU629		1: 
1217	ZATU636		1: 
1225	ZATU647		1: 
1227	ZATU649		1: 
1229	ZATU651		2:  , 
1232	ZATU662		3:  ,  , 
1254	ZATU693		2:  , 

1267	ZATU710		1: 
1268	ZATU711		1: 
1279	ZATU725		1: 
1282	ZATU729		1: 
1287	ZATU737		2:  , 
1288	ZATU750		3:  ,  , 
1289	ZATU752		1: 
1292	ZATU756		1: 
1293	ZATU757		1: 
1295	ZATU759		1: 
1307	ZATU776		1: 
1308	ZATU777		2:  , 
1362	ZATU839		1: 
1389	ZATU628 _a		1: 
1391	ZATU632 _a		1: 
1399	ZATU675 _b		1: 
1408	ZATU680 _b		1: 
1420	ZATU694 _c		1: 
1423	ZATU697 _a		3:  ,  , 
1434	ZATU735 _b		2:  , 
1438	ZATU749 _a		2:  , 
1445	ZATU762 _a		2:  , 
1447	ZATU773 _a		1: 

1451	ZI _a		1:
1462	1N ₅₇ · ŠUBUR		1:
1464	1N ₅₈ · BAD _b		1:
1503	AB2 × 2N ₁₄		1:
1510	BU _a + DU6 _a		1:
1514	(BU _a & BU _a) · NA2 _a		1:
1522	DARA3 _d × KAR2		2: ,
1539	DUG _b × 1N ₅₇		1:
1547	DUG _b × DIN		1:
1552	DUG _b × GEŠTU _a		1:
1556	DUG _b × HI		1:
1564	DUG _b × MAŠ		1:
1575	DUG _b × ŠE _a		2: ,
1582	DUG _b × U2 _b		1:
1592	DUG _c × 1N ₅₇		2: ,
1607	EZEN _a × LA _e		1:
1615	EZEN _b × 6N ₅₇		1:
1616	GA _a · ZATU753		1:
1721	HI · SUHUR		2: ,
1724	KA _a · ŠE _a		1:
1818	NINDA2 × GUDU4		3: , ,
1842	SAG × GEŠTU _b		1:
1861	SILA3 _a × DUG _a		1:

1909	$\check{S}E_a \cdot NAM_2$		1: 
1926	$\check{S}U_2 \cdot EN_a$		1: 
2010	$U\check{S}_b \times TAR_c$		1: 
2023	$ZATU662 \times 1N_{14}$		2:  , 
2030	$ZATU737 \times DI$		1: 
2034	$ZATU737 \times GAR$		1: 
2058	$DUG_b \times X$		1: 

5 Analysis of Compound Signs

5.1 Typology of compounds

Compounds or complex signs are individual signs that are written as a single unit using various techniques, such as joining, stacking, or embedding, or one or more combinations of these. The majority of complex units consist of 2 signs, but slightly more than a hundred have 3 or more signs. The following table shows my analysis of the typologies and compositions of Proto-Cuneiform complex signs:

Type	# Signs	Pattern	Count
numeric	2	N×N	2
		N·N	1
ideographic	2	I×I	371
		I·I	38
		I+I	14
		I&I	12
	3	I×I·I	25
		I&I·I	5
		(I×I·I)	3
		I×I+I	3
		I&I×I	2
		I×(I&I)	2
		I×(I×I)	2
		I&I&I	1
		I·I&I	1
		I×I&I	1
		I×I×I	1
		(I+&I)×I	1
		I×(I·I·I)	1
	4		
numero-ideographic	2	N·I	29
ideo-numeric	2	I×N	84
		I·N	14
	3	I×N·N	11
		I·N·N	4
		I×N·I	3
		I×I·N	2
		I&I×N	1
		I×I+N	1
		I×I×N	1
	4	I×(I·N·I)	1
		I×N&I+N	1
		I×N·N·N	1
	5	I·(I+N+I+N)	1

The above table refers to the following types of complex signs:

numeric (N)	only numeric signs
ideographic (I)	only ideographic signs
numero-ideographic	numeric sign as the first element and 1 or more ideographic signs
ideo-numeric	ideographic sign as the first element and 1 or more numeric signs

and the following operators that denote sign structures:

(...)	a group of signs
×	the following sign is embedded within the preceding sign
+	the preceding sign is joined or fused to the following sign
&	the preceding sign is stacked vertically above the following sign
.	the preceding sign is placed beside, but not joined to the following sign

5.2 Signs in compounds without independent attestation

There are 21 signs that occur in compounds, but which are not attested independently:

	Compound sign	#	Glyphs	Unattested
	1N ₅₈ · BAD _a	1	, BAD a	BAD _a
	1N ₅₈ · BAD _b	1	, BAD b	BAD _b
	1N ₅₈ · BAD _b – var. 1	1	, BAD b	BAD _b
	AMAR × TAR	1	Σ, TAR	TAR
	(BU _a & BU _a) · NA2 _a nutillû	1	✕, ✕, NA2 a@n	NA2 _a nutillû
	(BU _a & BU _a) · NA2 _b	1	✕, ✕, NA2 b	NA2 _b
	DARA3 _c × KAR2	1	✎, KAR2	KAR2
	DARA3 _c × (KAR2 · ŠE _a)	1	✎, KAR2, ✎	KAR2
	DARA3 _d × KAR2	1	✎, KAR2	KAR2
	DARA3 _d × KAR2 – var. 1	1	✎, KAR2	KAR2
	DARA3 _d × KAR2 – var. 2	1	✎, KAR2	KAR2
	DARA3 _d × (KAR2 · ŠE _a)	1	✎, KAR2, ✎	KAR2

	Compound sign	#	Glyphs	Unattested
	DU × DIŠ	1	, DISZ	DIŠ
	DU _{6a} × DIŠ	1	, DISZ	DIŠ
	(DUB × DIŠ) _a	2	DUB, DISZ a	DIŠ
	(DUB × DIŠ) _b	2	DUB, DISZ b	DIŠ
	(DUB × DIŠ) _c	2	DUB, DISZ c	DUB
	DUG _b × ANŠE _d	1	, ANSZE d	ANŠE _d
	E2 _a × 1N ₅₇ tenû	1	, 1N57@t	1N ₅₇ tenû
	E2 _b × 1N ₅₇ tenû	1	, 1N57@t	1N ₅₇ tenû
	EŠDA × TAR	1	, TAR	TAR
	GIR3 _c × KAR2	1	, KAR2	KAR2
	GIŠ × ŠU2 _a	1	, SZU2 a	ŠU2 _a
	GIŠ × ŠU2 _b	1	, SZU2 b	ŠU2 _b
	GURUŠ _c × 2N ₁₄	1	GURUSZ c,	GURUŠ _c
	HI × 1N _{1F}	1	, 1N01F	1N _{1F}
	HI × 1N ₅₇ tenû	1	, 1N57@t	1N ₅₇ tenû
	KA2 × LAM	2	KA2, LAM	LAM
	LAGA _b × KUR _e	1	, KUR e	KUR _e
	NINDA2 × GUDU4	1	, GUDU4	GUDU4
	NINDA2 × GUDU4 – var. 1	1	, GUDU4	GUDU4
	NINDA2 × GUDU4 – var. 2	1	, GUDU4	GUDU4
	NINDA2 × GUDU4 – var. 3	1	, GUDU4	GUDU4

	Compound sign	#	Glyphs	Unattested
	$NINDA2 \times (UDU_a \times TAR)_a$	1	, ,	TAR
	$NINDA2 \times (UDU_a \times TAR)_b$	1	, , TAR b	TAR
	$NUN_a + EN_d$	1	, EN d	EN _d
	$SAG \times GEŠTU_c$	1	, GESZTU c	GEŠTU _c
	$SILA3_d \times NI_a$	1	SILA3 d,	SILA3 _d
	$U4 \times 1N_{1F}$	1	, 1N01F	1N _{1F}
	$(U8 \times TAR)_b$	1	, TAR b	TAR
	$(UDU_a \times TAR)_a$	1	,	TAR
	$(UDU_a \times TAR)_b$	1	, TAR b	TAR
	$UR_a \times KAR2$	1	, KAR2	KAR2
	$UR2 \times TAR$	1	, TAR	TAR
	$URU_{a3} \times KALAM_a$	1	URU a3,	URU _{a3}
	$UŠ_b \times TAR_c$	1	, TAR c	TAR _c
	$UŠ_b \times TAR_c - \text{var. 1}$	1	, TAR c	TAR _c
	$ZATU\ 759\ \text{tenû} \times X$	1	ZATU759@t, X	ZATU 759 tenû
	$(ZU \ \& \ ZU) \cdot SAR_a$	2	ZU, ZU,	ZU

Feedback from experts regarding these signs is requested. It may be necessary to define these components as individual signs.

5.3 Summary of Primary Element in Compounds

An overview of the primary signs in the 640 compounds is given below.

	First Element	Count	Compound Types
	DUG _b	56	I×I [45], I×(I·I) [7], I×N [2], (I&I)×N [1], I×(N·I) [1]
	U4	52	I×N [21], I·N [10], I×(N·N) [6], I×N·N [5], I·(N·N) [4], I×N·I [2], I·I [1], I×(I+N) [1], I×I [1], I×N·(N·N) [1]
	SILA3 _a	36	I×I [33], I×N [2], I×(I·I) [1]
	NINDA2	32	I×I [15], I×(I·I) [7], I×N [4], I×(I×I) [2], I×(I+I) [1], I×(I·I·I) [1], I×(I·N) [1], I×(I×N) [1]
	GA2 _{a1}	32	I×I [25], I×(I·I) [3], I×(I&I) [2], I×N [2]
	LAGAB _a	22	I×I [20], I×(I+I) [1], I×N [1]
	ZATU737	18	I×I [18]
	GI	14	I×I [7], (I&I)×I [2], I×N [2], (I+&I)×I [1], I&I [1], I&I&I [1]
	EZEN _a	14	I×I [12], I×(I·I) [1], I×(I·N·I) [1]
	MAH _a	13	I×I [12], I×(I×I) [1]
	LAGAB _b	12	I×I [11], I×N [1]
	GAN _c	12	I×I [10], I×(I·I) [2]
	ŠU2	10	I·I [7], I·N [2], I·((I+N)+(I+N)) [1]
	URU _{a1}	9	I×I [7], I×N [2]
	UKKIN _b	9	I×I [5], I×N [3], I×(I·N) [1]
	HI	9	I×N [4], I×I [3], (I×N)&(I+N) [1], I·I [1]
	GA2 _{a2}	9	I×I [7], I×(I·I) [1], I×N [1]
	ZATU651	8	I×I [8]
	DUG _a	8	I×I [7], I×N [1]
	BU _a	8	(I&I)·I [4], I×I [2], I+I [1], I×N [1]
	AB _a	8	I×I [6], I×(I&I) [1], I×N [1]
	3N ₅₇	8	N·I [8]
	SAG	7	I×I [6], I×N [1]

	First Element	Count	Compound Types
	MUŠEN	6	$I \times N$ [3], $I \times I$ [2], $I \cdot I$ [1]
	GIŠ	6	$I \times (I \cdot I)$ [3], $I \times I$ [2], $I \cdot I$ [1]
	A	6	$I \times I$ [5], $I \times N$ [1]
	ŠITA _{a1}	5	$I \times I$ [4], $I \times N$ [1]
	SILA3 _b	5	$I \times I$ [5]
	NUN _a	5	$I + I$ [5]
	MA	5	$I \times I$ [3], $I \times N$ [2]
	ZATU759	4	$I \times I$ [3], $I \times (I + I)$ [1]
	SUKUD	4	$I + I$ [4]
	SAL	4	$I \cdot I$ [3], $I \times N$ [1]
	MAH _b	4	$I \times I$ [4]
	GA2 _b	4	$I \times I$ [4]
	4N ₅₇	4	$N \cdot I$ [4]
	2N ₅₇	4	$N \cdot I$ [4]
	1N ₅₇	4	$N \cdot I$ [3], $N \cdot N$ [1]
	ZATU714	3	$I \times I$ [2], $I \cdot I$ [1]
	ZATU659	3	$I \times N$ [3]
	UŠ _b	3	$I \times I$ [2], $I \& I$ [1]
	ŠE _a	3	$I \cdot I$ [2], $I \& I$ [1]
	MAR _b	3	$I \times I$ [2], $I \times (I \cdot I)$ [1]
	KU6 _a	3	$I + I$ [2], $I \cdot N$ [1]
	GUG2	3	$I \times I$ [3]
	E2 _a	3	$I \times N$ [2], $I \cdot I$ [1]
DUB	DUB	3	$I \times I$ [3]
	DU8 _c	3	$I \times I$ [3]
	AMAR	3	$I \& I$ [1], $I \cdot N$ [1], $I \times I$ [1]

	First Element	Count	Compound Types
	AB _b	3	I×I [3]
	ZATU711	2	I×I [2]
	UR2	2	I×I [1], I×N [1]
	UDU _a	2	I×I [2]
	ŠU	2	I&I [1], I×N [1]
	ŠITA gunû _a	2	I×N [2]
	ŠA	2	I×I [2]
	SILA3 _c	2	I×I [2]
	SIG2 _b	2	I·I [1], I×N [1]
	SI	2	I×I [2]
	NI _b	2	I×I [1], I×N [1]
	NI _a	2	I·I [1], I×N [1]
	LAL2 _a	2	I×I [2]
	KUR _a	2	I·I [2]
	KA _a	2	I·I [1], I×I [1]
	GIR3 _c	2	I×I [2]
	GI4 _a	2	I&I [1], I×I [1]
	GA _c	2	I×I [1], I×N [1]
	GA _a	2	I·I [1], I×I [1]
	GAN _d	2	I×I [2]
	EN2	2	I·I [2]
	E2 _b	2	I·I [1], I×N [1]
	DIM _a	2	I×I [2]
	DARA3 _d	2	I×(I·I) [1], I×I [1]
	DARA3 _c	2	I×(I·I) [1], I×I [1]
	6N ₅₇	2	N·I [2]

	First Element	Count	Compound Types
	5N ₅₇	2	N·I [2]
	1N ₅₈	2	N·I [2]
ZU	ZU	1	(I&I)·I [1]
	ZATU762 _b	1	I×I [1]
	ZATU762 _a	1	I×I [1]
ZATU759@t	ZATU759 tenû	1	I×I [1]
	ZATU662	1	I×N [1]
	ZATU644 _a	1	I×N [1]
XN57	XN57	1	N·I [1]
	UŠ _a	1	I&I [1]
	UR _a	1	I×I [1]
URU a3	URU _{a3}	1	I×I [1]
	URU _{a2}	1	I×N [1]
	URI3 _a	1	I+I [1]
	UR3 _{b1}	1	I×I [1]
	UNUG _a	1	I×I [1]
	U8	1	I×I [1]
	TUR3 _b	1	I×I [1]
	TUR	1	I×I [1]
	TUG2 _a	1	I·(I&I) [1]
	TA _d	1	I×I [1]
	ŠITA _{b3}	1	I×I [1]
	ŠITA _{b1}	1	I×I [1]
	ŠEN _d	1	I×I [1]
	SU _a	1	I×N [1]
SILA3 d	SILA3 _d	1	I×I [1]

	First Element	Count	Compound Types
	SIG	1	I×N [1]
	SAR _a	1	I×I [1]
	PIRIG _{b1}	1	I×I [1]
	NUN _b	1	I+I [1]
	NU11	1	I&I [1]
	NIR _a	1	I×I [1]
	NAM2	1	I×N [1]
	NAGA _a	1	I×I [1]
	MUD3 _a gunû	1	I×I [1]
	LU2	1	I×I [1]
	KUR _b	1	I·I [1]
	KI nutillû	1	I×I [1]
	KAŠ _b	1	I×I [1]
	KAK _a	1	I·I [1]
	KAB	1	I×N [1]
KA2	KA2	1	I×I [1]
	IR _a	1	I·I [1]
	HAŠHUR	1	I×I [1]
GURUSZ c	GURUŠ _c	1	I×N [1]
	GURUŠ _b	1	I×N [1]
	GURUŠ _a	1	I×N [1]
	GUKKAL _a	1	I·I [1]
	GU4	1	I·I [1]
	GIŠ tenû	1	I·I [1]
	GIŠ3 _a	1	I&I [1]
	GIR _b	1	I·I [1]

	First Element	Count	Compound Types
	GIR _a	1	I·I [1]
	GIR3 _a	1	I×I [1]
	GI4 _b	1	I&I [1]
	GEŠTU _a	1	I×I [1]
	GEŠTIN _c	1	I×I [1]
	GA2 _{a3}	1	I×I [1]
	EZEN _b	1	I×N [1]
	EŠDA	1	I×I [1]
	EN _c	1	I&I [1]
	DUG _c	1	I×N [1]
	DU6 _a	1	I×I [1]
	DU	1	I×I [1]
	DA _a	1	I·I [1]
	DAR _a	1	I×I [1]
	BU _b	1	I·I [1]
	BAD	1	I&I [1]
	APIN _a	1	I·I [1]
	AMA _a	1	I×I [1]
	AB2	1	I×N [1]
	8N ₅₇	1	N·I [1]
	3N ₅₈	1	N·I [1]
	1N ₃₄	1	N×N [1]
	1N ₈ flat	1	N×N [1]
	1N ₂	1	N·I [1]

5.4 Summary of Compound Types and Primary Element

Type	Count	First Element
I×I	371	DUG _b [45], SILA3 _a [33], GA2 _{a1} [25], LAGAB _a [20], ZATU737 [18], NINDA2 [15], MAH _a [12], EZEN _a [12], LAGAB _b [11], GAN _c [10], ZATU651 [8], DUG _a [7], GA2 _{a2} [7], GI [7], URU _{a1} [7], SAG [6], AB _a [6], A [5], SILA3 _b [5], UKKIN _b [5], ŠITA _{a1} [4], GA2 _b [4], MAH _b [4], DU8 _c [3], AB _b [3], DUB DUB [3], GUG2 [3], HI [3], MA [3], ZATU759 [3], UDU _a [2], ŠA [2], ZATU714 [2], ZATU711 [2], UŠ _b [2], BU _a [2], DIM _a [2], GIR3 _c [2], LAL2 _a [2], MAR _b [2], MUŠEN [2], SI [2], SILA3 _c [2], GIŠ [2], GAN _d [2], TUR3 _b [1], U4 [1], U8 [1], UNUG _a [1], UR2 [1], UR3 _{b1} [1], URU a3 URU _{a3} [1], UR _a [1], ZATU759@t ZATU759 tenû [1], ZATU762 _a [1], ZATU762 _b [1], TA _d [1], TUR [1], ŠEN _d [1], ŠITA _{b3} [1], ŠITA _{b1} [1], GIR3 _a [1], HAŠHUR [1], KA2 KA2 [1], KAŠ _b [1], KA _a [1], KI nutillû [1], LU2 [1], MUD3 _a gunû [1], NAGA _a [1], NIR _a [1], NI _b [1], PIRIG _{b1} [1], SAR _a [1], SILA3 d SILA3 _d [1], GI4 _a [1], GEŠTU _a [1], GEŠTIN _c [1], DARA3 _c [1], AMAR [1], AMA _a [1], DARA3 _d [1], GA _c [1], DAR _a [1], DU [1], DU6 _a [1], EŠDA [1], GA2 _{a3} [1], GA _a [1]
I×N	84	U4 [21], HI [4], NINDA2 [4], ZATU659 [3], UKKIN _b [3], MUŠEN [3], GA2 _{a1} [2], SILA3 _a [2], ŠITA gunû _a [2], URU _{a1} [2], MA [2], GI [2], E2 _a [2], DUG _b [2], E2 _b [1], DUG _a [1], DUG _c [1], A [1], AB _a [1], BU _a [1], AB2 [1], GA2 _{a2} [1], EZEN _b [1], GURUŠ _a [1], GA _c [1], ZATU644 _a [1], ZATU662 [1], URU _{a2} [1], UR2 [1], GURUŠ _b [1], GURUSZ c GURUŠ _c [1], KAB [1], LAGAB _a [1], LAGAB _b [1], NAM2 [1], NI _a [1], NI _b [1], SAG [1], SAL [1], SIG [1], SIG2 _b [1], SU _a [1], ŠITA _{a1} [1], ŠU [1]

Type	Count	First Element
I·I	38	 šU2 [7],  SAL [3],  EN2 [2],  KUR _a [2],  ŠE _a [2],  GIR _a [1],  ZATU714 [1],  U4 [1],  SIG2 _b [1],  NI _a [1],  MUŠEN [1],  KUR _b [1],  KA _a [1],  KAK _a [1],  IR _a [1],  HI [1],  GUKKAL _a [1],  GU4 [1],  GIŠ tenû [1],  GIŠ [1],  GIR _b [1],  GA _a [1],  E2 _b [1],  E2 _a [1],  DA _a [1],  BU _b [1],  APIN _a [1]
N·I	29	 3N ₅₇ [8],  4N ₅₇ [4],  2N ₅₇ [4],  1N ₅₇ [3],  1N ₅₈ [2],  5N ₅₇ [2],  6N ₅₇ [2],  1N ₂ [1],  3N ₅₈ [1],  8N ₅₇ [1], XN57 [1], XN57 [1]
I×(I·I)	28	 NINDA2 [7],  DUG _b [7],  GA2 _{a1} [3],  GIŠ [3],  GAN _c [2],  MAR _b [1],  SILA3 _a [1],  GA2 _{a2} [1],  EZEN _a [1],  DARA3 _d [1],  DARA3 _c [1]
I+I	14	 NUN _a [5],  SUKUD [4],  KU6 _a [2],  BU _a [1],  URI3 _a [1],  NUN _b [1]
I·N	14	 U4 [10],  šU2 [2],  AMAR [1],  KU6 _a [1]
I&I	12	 GIŠ3 _a [1],  UŠ _b [1],  UŠ _a [1],  ŠU [1],  ŠE _a [1],  NU11 [1],  GI4 _b [1],  GI4 _a [1],  EN _c [1],  BAD [1],  AMAR [1]
I×(N·N)	6	 U4 [6]
I×N·N	5	 U4 [5]
(I&I)·I	5	 BU _a [4], ZU ZU [1]
I·(N·N)	4	 U4 [4]
I×(I&I)	3	 GA2 _{a1} [2],  AB _a [1]
I×(I+I)	3	 LAGAB _a [1],  ZATU759 [1],  NINDA2 [1]

Type	Count	First Element
$I \times (I \times I)$	3	 NINDA2 [2],  MAH _a [1]
$I \times (I \cdot N)$	2	 UKKIN _b [1],  NINDA2 [1]
$I \times N \cdot I$	2	 U4 [2]
$N \times N$	2	 1N ₈ flat [1],  1N ₃₄ [1]
$(I \& I) \times I$	2	 GI [2]
$I \times (I \cdot I \cdot I)$	1	 NINDA2 [1]
$I \times (I \cdot N \cdot I)$	1	 EZEN _a [1]
$I \cdot (I \& I)$	1	 TUG2 _a [1]
$I \times (N \cdot I)$	1	 DUG _b [1]
$I \cdot ((I+N) + (I+N))$	1	 ŠU2 [1]
$I \& I \& I$	1	 GI [1]
$(I \times N) \& (I+N)$	1	 HI [1]
$I \times N \cdot (N \cdot N)$	1	 U4 [1]
$I \times (I+N)$	1	 U4 [1]
$(I+ \& I) \times I$	1	 GI [1]
$(I \& I) \times N$	1	 DUG _b [1]
$N \cdot N$	1	 1N ₅₇ [1]

Type	Count	First Element
$I \times (I \times N)$	1	 NINDA2 [1]

6 Proposed Encoding Model

The proposed encoding model for Proto-Cuneiform is based upon the principles used for encoding Sumero-Akkadian cuneiform. It adopts the following definitions from § 11.1 of *The Unicode Standard*), in which references to ‘Cuneiform’ should be interpreted as meaning ‘Proto-Cuneiform’:

Simple Signs Most Cuneiform signs are simple units; each sign of this type is represented by a single character in the standard

Complex and Compound Signs Some Cuneiform signs are categorized as either complex or compound signs. Complex signs are made up of a primary sign with one or more secondary signs written within it or conjoined to it, such that the whole is generally treated by scholars as a unit; this includes linear sequences of two or more signs or wedge-clusters where one or more of those clusters have not been clearly identified as characters in their own right. Complex signs, which present a relative visual unity, are assigned single individual code points irrespective of their components. Compound signs are linear sequences of two or more signs or wedge-clusters generally treated by scholars as a single unit, when each and every such wedge-cluster exists as a clearly identified character in its own right. Compound signs are encoded as sequences of their component characters. Signs that shift from compound to complex, or vice versa, generally have been treated according to their Ur III manifestation.

Mergers and Splits Over the long history of Cuneiform, a number of signs have simplified and merged; in other cases, a single sign has diverged and developed into more than one distinct sign. The choice of signs for encoding as characters was made at the point of maximum differentiation in the case of either mergers or splits to enable the most comprehensive set for the representation of text in any period.

Following this approach, all attested, distinctive individual Proto-Cuneiform signs are encoded as independent characters. Compound signs that cannot be simply reconstructed using the basic forms of the constituent signs are also proposed for encoding as independent characters.

Additionally, a set of format control characters are proposed for handling the encoded representation of compound signs, whose composition consists of the basic forms of its constituents.

6.1 Proposed Character Repertoire

The proposed Unicode repertoire for Proto-Cuneiform contains the following characters:

- 359 numeric signs, including variant forms
- 1340 ideographic signs, including variant forms

- 126 atomic compound signs, including variant forms
- 10 format control characters for encoding compounds

6.2 Format Control Characters

The following format control characters are proposed for representing ‘composable’ compound signs:

	PROTO-CUNEIFORM BEGIN GROUP
	PROTO-CUNEIFORM END GROUP
	PROTO-CUNEIFORM HORIZONTAL NON-JOINER
	PROTO-CUNEIFORM HORIZONTAL JOINER
	PROTO-CUNEIFORM HORIZONTAL INSERTION
	PROTO-CUNEIFORM VERTICAL NON-JOINER
	PROTO-CUNEIFORM VERTICAL JOINER
	PROTO-CUNEIFORM CONTAINER
	PROTO-CUNEIFORM OVERLAY
	PROTO-CUNEIFORM REVERSE

6.3 Naming Convention for Characters

Scholarly sign names have been normalized to produce Unicode character names as follows:

- The ‘@’ used for indicating variants has been replaced by full names
- Operators used in compound names have been replaced with descriptive terms
- Letters with diacritics have been transliterated into digraphs

Variants	Operators	Diacritics
@g gunu	× CONTAINING	Š SH
@t tenu	+ JOINED	
@n nutillu	& OVER	
@s seshshig	. BESIDE	
@r reversed		
@f flat		

Feedback on character names is sought in order to develop names that effectively convey the meaning and values of signs and formations of complex graphemes.

7 Compound Signs by Composition

7.1 Atomic Signs

The following 90 signs (85 distinctive, 5 variants) may be considered to be ‘atomic’ compounds:

#	Sign	Name	Str	Type	Elements
1462.1		1N ₅₇ · ŠUBUR v1	N·I	overlay	—,
1477		3N ₅₈ · UR3 _{b1}	N·I	adjacent	,
1481		4N ₅₇ · NI _b	N·I	embedded	≡,
1486		8N ₅₇ · NI _b	N·I	embedded	====,
1487		A × 1N ₁₄	I×N	embedded	, •
1488		A × AB2	I×I	contained	,
1489		A × AN	I×I	contained	, *
1490		A × EN _a	I×I	contained	,
1491		A × ŠUBUR	I×I	contained	,
1492		A × ZATU672	I×I	contained	,
1503		AB2 × 2N ₁₄	I×N	embedded	, •
1503.1		AB2 × 2N ₁₄ v1	I×N	embedded	, •
1504		AMA _a × E2 _a	I×I	embedded	,
1514		(BU _a & BU _a) · NA2 _a	(I&I)·I	adjacent	, ,
1514.1		(BU _a & BU _a) · NA2 _a v1	(I&I)·I	adjacent	, ,
1515		(BU _a & BU _a) · NA2 _a nutillû	(I&I)·I	adjacent	, , NA2 a@n
1516		(BU _a & BU _a) · NA2 _b	(I&I)·I	adjacent	, , NA2 b
1519		DAR _a × A	I×I	overlay	,

#	Sign	Name	Str	Type	Elements
1520		DARA3 _c × KAR2	I×I	adjacent	, KAR2
1521		DARA3 _c × (KAR2 · ŠE _a)	I×(I·I)	adjacent	, KAR2,
1522		DARA3 _d × KAR2	I×I	adjacent	, KAR2
1522.1		DARA3 _d × KAR2 v1	I×I	adjacent	, KAR2
1522.2		DARA3 _d × KAR2 v2	I×I	adjacent	, KAR2
1523		DARA3 _d × (KAR2 · ŠE _a)	I×(I·I)	adjacent	, KAR2,
1524		DIM _a × GU	I×I	embedded	,
1525		DU × DIŠ	I×I	embedded	, DISZ
1526		DU6 _a × DIŠ	I×I	embedded	, DISZ
1529		(DUB × DIŠ) _a	I×I	embedded	DUB, DISZ
1530		(DUB × DIŠ) _b	I×I	embedded	DUB, DISZ
1531		(DUB × DIŠ) _c	I×I	embedded	DUB, DISZ
1593		E2 _a × 1N ₅₇ tenû	I×N	embedded	, 1N57@t
1594		E2 _a × 3N ₅₈	I×N	embedded	,
1596		E2 _b × 1N ₅₇ tenû	I×N	embedded	, 1N57@t
1598		EN _c & EN _c	I&I	stacked	,
1601		EŠDA × TAR	I×I	overlay	, TAR
1675		GEŠTU _a × ŠE _a tenû	I×I	embedded	,
1677		GI × 1N ₁₄	I×N	overlay	, •
1678		GI × 1N ₅₈ tenû	I×N	overlay	, \
1693		GIR3 _a × ŠE _b	I×I	embedded	,

#	Sign	Name	Str	Type	Elements
1694		GIR3 _c × KAR2	I×I	embedded	, KAR2
1695		GIR3 _c × ŠE3	I×I	embedded	,
1697		(GIŠ × (DIN · DIN)) _a	I×(I·I)	overlay	, ,
1698		(GIŠ × (DIN · DIN)) _b	I×(I·I)	overlay	, ,
1699		(GIŠ × (DIN · DIN)) _c	I×(I·I)	overlay	, ,
1708		GUKKAL _a · HI gunû _a	I·I	embedded	,
1709		GURUŠ _a × 2N ₁₄	I×N	embedded	,
1710		GURUŠ _b × 2N ₁₄	I×N	embedded	,
1711		GURUŠ _c × 2N ₁₄	I×N	embedded	GURUSZ c,
1712		HAŠHUR × MA	I×I	contained	,
1715		HI × 1N ₅₇ tenû	I×N	contained	, 1N57@t
1719		HI × ŠE3 tenû	I×I	embedded	,
1720		HI × ZATU707 _a	I×I	embedded	,
1723		KA _a × SAR _a	I×I	overlay	,
1724		KA _a · ŠE _a	I·I	overlay	,
1724.1		KA _a · ŠE _a v1	I·I	overlay	,
1725		KA2 × LAM	I×I	overlay	KA2, LAM
1727		KAK _a · GA2 _{a1}	I·I	overlay	,
1728		KAŠ _b × ŠE _a	I×I	adjacent	,
1729		KI nutillû × DUB _a	I×I	embedded	,
1730		KU6 _a + GIŠ	I+I	adjacent	,

#	Sign	Name	Str	Type	Elements
1731		KU6 _a + KU6 _a	I+I	adjacent	,
1736		LAGAB _a × 2N ₁₄	I×N	overlay	,
1770		LU2 × GEŠTU _{c3}	I×I	overlay	,
1771		MA × 1N ₅₈	I×N	embedded	,
1772		MA × 2N ₅₇	I×N	embedded	,
1774		MA × MA	I×I	embedded	,
1791		MAR _b × (LAGAB _b · ŠE3)	I×(I·I)	embedded	, ,
1793		MUD3 _a gunû × GU	I×I	embedded	,
1794		MUŠEN × 1N ₅₇	I×N	embedded	,
1795		MUŠEN × 2N ₅₇	I×N	embedded	,
1796		MUŠEN × 3N ₅₇	I×N	embedded	,
1801		NI _a × 1N ₅₇	I×N	embedded	,
1803		NI _b × 4N ₅₇	I×N	embedded	,
1831		NIR _a × AN	I×I	embedded	,
1834		NUN _a + EN _a	I+I	overlay	,
1835		NUN _a + EN _b	I+I	overlay	,
1836		NUN _a + EN _d	I+I	overlay	,
1838		NUN _b + EN _a	I+I	overlay	,
1839		PIRIG _{b1} × UR2	I×I	embedded	,
1840		SAG × 1N ₁₄	I×N	overlay	,
1841		SAG × GEŠTU _a	I×I	adjacent	,

#	Sign	Name	Str	Type	Elements
1843		SAG × GEŠTU _c	I×I	adjacent	, GESZTU c
1845		SAG × MA	I×I	overlay	,
1846		SAG × SAR _a	I×I	embedded	,
1847		SAL × 1N ₅₈	I×N	adjacent	,
1852		SI × GU4	I×I	overlay	,
1855		SIG2 _b × 1N ₁₄	I×N	contained	, •
1900		SU _a × 1N ₅₈	I×N	embedded	,
1901		(SUKUD + SUKUD) _a	I+I	atomic	,
1902		(SUKUD + SUKUD) _b	I+I	atomic	,
1903		(SUKUD + SUKUD) _c	I+I	atomic	,
1904		(SUKUD + SUKUD) _d	I+I	atomic	,
1910		ŠEN _d × A	I×I	embedded	,
1911		ŠITA gunû _a × 1N ₄	I×N	embedded	,
1912		ŠITA gunû _a × 1N ₆	I×N	embedded	,
1913		ŠITA _{a1} × 1N ₆	I×N	embedded	,
1932		TA _d × MAŠ	I×I	embedded	, +
1957		U4 × 4N ₅₇	I×N	adjacent	, ≡
1960		U4 × 5N ₅₇	I×N	adjacent	, ≡≡
1962		U4 × 6N ₅₇	I×N	adjacent	, ≡≡≡
1963		U4 × 7N ₅₇	I×N	adjacent	, ≡≡≡≡
1965		U4 × 8N ₅₇	I×N	adjacent	, =====

#	Sign	Name	Str	Type	Elements
1966		U4 x 10N ₅₇	I×N	adjacent	𐎶, =====
1981		U4 · ŠU2	I·I	adjacent	𐎶, 𐎵
1982		(U8 x TAR) _b	I×I	overlay	𐎶, TAR
1983		(UDU _a x TAR) _a	I×I	overlay	𐎶, TAR
1984		(UDU _a x TAR) _b	I×I	overlay	𐎶, TAR
1994		UR _a x KAR2	I×I	embedded	𐎶, KAR2
1996		UR2 x TAR	I×I	embedded	𐎶, TAR
1997		UR3 _{b1} x MAS	I×I	embedded	𐎶, +
2010		UŠ _b x TAR _c	I×I	embedded	𐎶, TAR c
2010.1		UŠ _b x TAR _c v1	I×I	embedded	𐎶, TAR c
2011		UŠ _b x TAR _d	I×I	embedded	𐎶, 𐎶
2013		ZATU651 x AN	I×I	embedded	𐎶, *
2014		ZATU651 x EN _a	I×I	embedded	𐎶, 𐎶
2015		ZATU651 x GAR	I×I	embedded	𐎶, 𐎶
2016		ZATU651 x MA	I×I	embedded	𐎶, 𐎶
2017		ZATU651 x NUN _a	I×I	embedded	𐎶, 𐎶
2018		ZATU651 x ŠE _a	I×I	embedded	𐎶, 𐎶
2019		ZATU651 x ZAR _c	I×I	embedded	𐎶, 𐎶
2044		ZATU759 x KU6 _a	I×I	embedded	𐎶, 𐎶
2045		ZATU759 x (KU6 _a + KU6 _a)	I×(I+I)	embedded	𐎶, 𐎶, 𐎶
2046		ZATU759 x KU6 _d	I×I	embedded	𐎶, 𐎶

#	Sign	Name	Str	Type	Elements
2047	←	ZATU644 _a × 1N ₁₄	I×N	embedded	← , •
2048	◻	ZATU762 _a × NIM _a	I×I	embedded	◻ , ◻
2049	◻	ZATU762 _b × AB _a	I×I	embedded	◻ , ◻

7.2 Composable Signs

The following signs may be considered composable:

7.2.1 Contained: DUG (71 signs)

#	Sign	Name	Encoded Representation
1532	◻	DUG _a × 1N ₅₇	◻ ◻ —
1533	◻	DUG _a × HI	◻ ◻ ◻
1534	◻	DUG _a × KASKAL	◻ ◻ ✕
1535	◻	DUG _a × LAM _b	◻ ◻ ◻
1536	◻	DUG _a × NAGA _a	◻ ◻ ◻
1537	◻	DUG _a × U2 _a	◻ ◻ ◻
1538	◻	DUG _a × U2 _b	◻ ◻ ◻
1539	◻	DUG _b × 1N ₅₇	◻ ◻ —
1539.1	◻	DUG _b × 1N ₅₇ v1	◻ ◻ 1N57 variant 1
1540	◻	DUG _b × (1N ₅₇ · KU3 _a)	◻ ◻ (— ◻ ◻)
1541	◻	DUG _b × 3N ₅₇	◻ ◻ ≡
1542	◻	DUG _b × AB2	◻ ◻ ◻
1543	◻	DUG _b × ANŠE _b	◻ ◻ ✕
1544	◻	DUG _b × ANŠE _d	◻ ◻ ANŠE d

#	Sign	Name	Encoded Representation
1545		DUG _b × BALA _a	
1546		DUG _b × BIR3 _c	
1547		DUG _b × DIN	
1547.1		DUG _b × DIN v1	
1548		(DUG _b × DIN) reversed	
1549		DUG _b × E _a	
1550		DUG _b × GA _a	
1551		DUG _b × GA _b	
1552		DUG _b × GEŠTU _a	
1552.1		DUG _b × GEŠTU _a v1	
1553		DUG _b × GEŠTU _b	
1554		DUG _b × GI6	
1555		DUG _b × GIŠ	
1556		DUG _b × HI	
1556.1		DUG _b × HI v1	
1557		DUG _b × HI gunû _a	
1558		DUG _b × KASKAL	
1559		DUG _b × KU6 _a	
1560		DUG _b × KUR gunû _a	
1561		DUG _b × KUR _a	
1562		DUG _b × KUR _b	
1563		DUG _b × LAM _a	
1564		DUG _b × MAŠ	

#	Sign	Name	Encoded Representation
1564.1		DUG _b × MAŠ v1	MASZ variant 1
1565		DUG _b × NAGA _a	
1566		DUG _b × NAM2	
1567		DUG _b × (NI _a gunû · ZATU779)	()
1568		DUG _b × SA _a	
1569		DUG _b × SI4 _a	
1570		DUG _b × SIG7	
1571		DUG _b × SIG2 _{a1}	
1572		DUG _b × SIG2 _{a2}	
1573		DUG _b × SUHUR	
1574		DUG _b × ŠAH2 _a	
1575		DUG _b × ŠE _a	
1575.1		DUG _b × ŠE _a v1	SZE a variant 1
1575.2		DUG _b × ŠE _a v2	SZE a variant 2
1576		DUG _b × (ŠE _a · NAM2)	()
1577		DUG _b × TAK4 _a	
1578		DUG _b × (TAK4 _a · SA _a)	()
1579		DUG _b × (TAK4 _a · SAL)	()
1580		DUG _b × TI	
1581		DUG _b × U2 _a	
1582		DUG _b × U2 _b	
1582.1		DUG _b × U2 _b v1	
1583		DUG _b × UH3 _a	

#	Sign	Name	Encoded Representation
1584		DUG _b × UH3 _a tenû	
1585		DUG _b × ZATU764	
1586		DUG _b × ZATU779	
1587		DUG _b × ZATU780	
1588		DUG _b × ZATU781	
1589		DUG _b × (ZATU789 · SA _a)	
1590		DUG _b × ZATU707 _a	
1591		(DUG _b & DUG _b) × 1N ₅₈	
1592		DUG _c × 1N ₅₇	
1592.1		DUG _c × 1N ₅₇ v1	
1592.2		DUG _c × 1N ₅₇ v2	

7.2.2 Contained: GA2 (43 signs)

#	Sign	Name	Encoded Representation
1619		$GA2_{a1} \times 1N_{14}$	
1620		$GA2_{a1} \times 1N_{57}$	
1621		$GA2_{a1} \times A$	
1622		$GA2_{a1} \times EN_b$	
1623		$GA2_{a1} \times GE\dot{S}TU_{c3}$	
1624		$GA2_{a1} \times GE\dot{S}TU_{c5}$	
1625		$GA2_{a1} \times GIR_a$	
1626		$GA2_{a1} \times (GIR_a \cdot KU6_a)$	
1627		$GA2_{a1} \times GI\dot{S} \text{ ten}\hat{u}$	

#	Sign	Name	Encoded Representation
1628		GA2 _{a1} × GU4	
1629		GA2 _{a1} × HAL	
1630		GA2 _{a1} × HI	
1631		GA2 _{a1} × (HI · SUHUR)	
1632		GA2 _{a1} × KU3 _a	
1633		GA2 _{a1} × KU6 _a	
1634		GA2 _{a1} × (KU6 _a · KU6 _a)	
1635		GA2 _{a1} × LAGAB _b	
1636		GA2 _{a1} × MAŠ	
1637		GA2 _{a1} × NAGA _a	
1638		GA2 _{a1} × NUN _a	
1639		GA2 _{a1} × PAD _b	
1640		GA2 _{a1} × PAP _a	
1641		GA2 _{a1} × SU _a	
1642		GA2 _{a1} × SUHUR	
1643		GA2 _{a1} × SUKUD	
1644		GA2 _{a1} × (SUKUD & SUKUD) _a	a
1645		GA2 _{a1} × (SUKUD & SUKUD) _b	b
1646		GA2 _{a1} × SUMAŠ	
1647		GA2 _{a1} × ŠA	
1648		GA2 _{a1} × TI	
1649		GA2 _{a1} × U4	
1650		GA2 _{a2} × 3N ₅₇	

#	Sign	Name	Encoded Representation
1651		$GA2_{a2} \times GU4$	
1652		$GA2_{a2} \times (GU4 \cdot \check{S}E3)$	
1653		$GA2_{a2} \times NI_a$	
1654		$GA2_{a2} \times NI_b$	
1655		$GA2_{a2} \times NIM_{b1}$	
1656		$GA2_{a2} \times SUHUR$	
1657		$GA2_{a2} \times \check{S}E3$	
1658		$GA2_b \times DUB_a$	
1659		$GA2_b \times DUB_b$	
1660		$GA2_b \times KU3_a$	
1661		$GA2_b \times ZATU659$	

7.2.3 Contained: SILA3 (44 signs)

#	Sign	Name	Encoded Representation
1857		$SILA3_a \times 1N_{57}$	
1858		$SILA3_a \times 1N_{58}$	
1859		$SILA3_a \times A$	
1860		$SILA3_a \times AMAR$	
1861		$SILA3_a \times DUG_a$	
1861.1		$SILA3_a \times DUG_a \text{ v1}$	
1862		$SILA3_a \times DUG_b$	
1863		$SILA3_a \times GA_a$	
1864		$SILA3_a \times GARA2_a$	

#	Sign	Name	Encoded Representation
1865		SILA3 _a × GEŠTU _a	
1866		SILA3 _a × GEŠTU _{c3}	
1867		SILA3 _a × GEŠTU _{c5}	
1868		SILA3 _a × HAŠHUR	
1869		SILA3 _a × HI	
1870		SILA3 _a × HI gunû _a	
1871		SILA3 _a × IB _a	
1872		SILA3 _a × KAŠ _a	
1873		SILA3 _a × KAŠ _c	
1874		SILA3 _a × KAŠ _d	
1875		SILA3 _a × KU6 _a	
1876		SILA3 _a × KUR _a	
1877		SILA3 _a × MA	
1878		SILA3 _a × MAŠ	
1879		SILA3 _a × NAGA _a	
1880		SILA3 _a × NI _a	
1881		SILA3 _a × NUN _b	
1882		SILA3 _a × SUHUR	
1883		SILA3 _a × SUM _a	
1884		SILA3 _a × SUM _b	
1885		SILA3 _a × ŠE _a	
1886		SILA3 _a × ŠE _a tenû	
1887		SILA3 _a × ŠU	

#	Sign	Name	Encoded Representation
1888		SILA3 _a × ŠU2	
1889		SILA3 _a × ZATU629	
1890		SILA3 _a × ZATU646	
1891		SILA3 _a × (ZATU659 · TU _c)	
1892		SILA3 _b × DUG _a	
1893		SILA3 _b × GUG2	
1894		SILA3 _b × NAGA _b	
1895		SILA3 _b × NI _a	
1896		SILA3 _b × NI _b	
1897		SILA3 _c × ŠU	
1898		SILA3 _c × ZATU687	
1899		SILA3 _d × NI _a	SILA3 d

7.2.4 Contained: NINDA2 (30 signs)

#	Sign	Name	Encoded Representation
1804		NINDA2 × 1N ₁	
1805		NINDA2 × 1N ₆	
1806		NINDA2 × 1N ₈	
1807		NINDA2 × 2N ₁	
1808		NINDA2 × AN	
1809		NINDA2 × (AN · HI)	
1810		NINDA2 × (AN · ME _a)	
1811		NINDA2 × BA	

#	Sign	Name	Encoded Representation
1812		NINDA2 × EZEN _b	
1813		NINDA2 × GA'AR _{a1}	
1814		NINDA2 × GAR	
1815		NINDA2 × GIŠ	
1816		NINDA2 × (GIŠ · DAR _a)	
1817		NINDA2 × GU4	
1818		NINDA2 × GUDU4	
1818.1		NINDA2 × GUDU4 v1	
1818.2		NINDA2 × GUDU4 v2	
1818.3		NINDA2 × GUDU4 v3	
1819		NINDA2 × HI	
1820		NINDA2 × (HI gunû _a · 1N ₆)	
1821		NINDA2 × (HI + ME _a)	
1822		NINDA2 × (HI · AN · ME _a)	
1823		NINDA2 × KAŠ _b	
1824		NINDA2 × MAR _b	
1825		NINDA2 × NE _a	
1826		NINDA2 × ŠIM _a	
1827		NINDA2 × U4	
1828		NINDA2 × (UDU _a × TAR) _a	
1829		NINDA2 × (UDU _a × TAR) _b	
1830		NINDA2 × (ZATU659 × 1N ₁)	

7.2.5 Contained: LAGAB (31 signs)

#	Sign	Name	Encoded Representation
1737		LAGAB _a × BA	○
1738		LAGAB _a × BIR3 _b	○
1739		LAGAB _a × DU6 _b	○
1740		LAGAB _a × KAK _a	○
1741		LAGAB _a × KU6 _a	○
1742		LAGAB _a × (KU6 _a + KU6 _a)	○
1743		LAGAB _a × KUŠU2 _b	○
1744		LAGAB _a × LAGAB _a	○ ○
1745		LAGAB _a × ME _a	○
1746		LAGAB _a × NUN _b	○
1747		LAGAB _a × PA _a	○
1748		LAGAB _a × SI	○
1749		LAGAB _a × SIG7	○
1750		LAGAB _a × SU _a	○
1751		LAGAB _a × ŠA	○
1752		LAGAB _a × ŠITA _{a1}	○
1753		LAGAB _a × TI	○
1754		LAGAB _a × U4	○
1755		LAGAB _a × UB	○
1756		LAGAB _a × ZATU753	○
1757		LAGAB _b × 1N ₁	□
1758		LAGAB _b × BANŠUR _a	□

#	Sign	Name	Encoded Representation
1759		$\text{LAGAB}_b \times \text{GA}'\text{AR}_{a1}$	
1760		$\text{LAGAB}_b \times \text{HI}$	
1761		$\text{LAGAB}_b \times \text{KUR}_e$	
1762		$\text{LAGAB}_b \times \text{LAGAB}_b$	
1763		$\text{LAGAB}_b \times \text{PA}_a$	
1764		$\text{LAGAB}_b \times \text{SI}$	
1765		$\text{LAGAB}_b \times \text{SUH3}$	
1766		$\text{LAGAB}_b \times \text{ŠITA}_c$	
1767		$\text{LAGAB}_b \times \text{U4}$	

7.2.6 Contained: U4 (39 signs)

#	Sign	Name	Encoded Representation
1935		$\text{U4} \times 1\text{N}_1$	
1936		$\text{U4} \times 1\text{N}_1 \cdot 5\text{N}_8$	
1937		$\text{U4} \times 1\text{N}_{1F}$	
1938		$\text{U4} \times 1\text{N}_{14}$	
1939		$\text{U4} \times (1\text{N}_{14} \cdot 2\text{N}_1)$	
1940		$\text{U4} \times (1\text{N}_{14} \cdot 4\text{N}_1)$	
1941		$\text{U4} \times (1\text{N}_{14} \cdot 8\text{N}_1)$	
1942		$\text{U4} \times 1\text{N}_{57}$	
1943		$\text{U4} \times 1\text{N}_{58} \text{ tenû}$	
1944		$\text{U4} \times 2\text{N}_1$	
1945		$\text{U4} \times 2\text{N}_1 \cdot 2\text{N}_{14}$	

#	Sign	Name	Encoded Representation
1946		$U4 \times 2N_1 \cdot (2N_{14} \cdot 1N_8)$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1947		$U4 \times 2N_{14}$	$\text{𐎶} \text{𐎶} \text{𐎶}$
1948		$U4 \times (2N_{14} \cdot 4N_1)$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1949		$U4 \times 2N_{57}$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1950		$U4 \times 3N_1$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1951		$U4 \times 3N_1 \cdot 3N_8$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1952		$U4 \times (3N_{14} \cdot 2N_1)$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1953		$U4 \times (3N_{14} \cdot 7N_1)$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1954		$U4 \times 3N_{57}$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1955		$U4 \times 4N_1$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1956		$U4 \times 4N_1 \cdot 2N_{14}$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1958		$U4 \times 5N_1$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1959		$U4 \times 5N_1 \cdot 1N_{14}$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1961		$U4 \times 6N_1$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1964		$U4 \times 8N_1$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1967		$U4 \cdot 1N_8$	$\text{𐎶} \text{𐎶} \text{𐎶}$
1968		$U4 \cdot 1N_{14}$	$\text{𐎶} \text{𐎶} \text{𐎶}$
1969		$U4 \cdot (1N_{14} \cdot 3N_8)$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1970		$U4 \cdot (1N_{14} \cdot 4N_8)$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1971		$U4 \cdot (1N_{14} \cdot 5N_8)$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1972		$U4 \cdot (1N_{14} \cdot 8N_8)$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1973		$U4 \cdot 2N_8$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$
1974		$U4 \cdot 2N_{14}$	$\text{𐎶} \text{𐎶} \text{𐎶} \text{𐎶}$

#	Sign	Name	Encoded Representation
1975		U4 · 3N ₈	
1976		U4 · 4N ₈	
1977		U4 · 5N ₈	
1978		U4 · 6N ₈	
1979		U4 · 7N ₈	
1980		U4 · 8N ₈	

7.2.7 Contained: ZATU737 (19 signs)

#	Sign	Name	Encoded Representation
2027		ZATU737 × AB _a	
2028		ZATU737 × BU _a	
2029		ZATU737 × BUR _a	
2030		ZATU737 × DI	
2030.1		ZATU737 × DI v1	
2031		ZATU737 × E _a	
2032		ZATU737 × EN _a	
2033		ZATU737 × EN _b	
2034		ZATU737 × GAR	
2034.1		ZATU737 × GAR v1	
2035		ZATU737 × NI _a gunû	
2036		ZATU737 × NIMGIR	
2037		ZATU737 × SAL	
2038		ZATU737 × SU _a	

#	Sign	Name	Encoded Representation
2039		ZATU737 × ŠE _a	
2040		ZATU737 × ŠITA _a gunû _a	
2041		ZATU737 × ŠITA _{a1}	
2042		ZATU737 × U4	
2043		ZATU737 × UNUG _a	

7.2.8 Contained: EZEN (16 signs)

#	Sign	Name	Encoded Representation
1602		EZEN _a × EN _a	
1603		EZEN _a × EN _b	
1604		EZEN _a × (HI · 1N ₅₇ · AN)	
1605		EZEN _a × KAB	
1606		EZEN _a × KI	
1607		EZEN _a × LA _e	
1607.1		EZEN _a × LA _e v1	
1608		EZEN _a × NIM _{b2}	
1609		EZEN _a × NIMGIR	
1610		EZEN _a × RAD _a	
1611		EZEN _a × SAG	
1612		EZEN _a × SU _a	
1613		EZEN _a × U4	
1614		EZEN _a × (U2 _b · A)	
1615		EZEN _b × 6N ₅₇	

#	Sign	Name	Encoded Representation
1615.1		EZEN _b × 6N ₅₇ v1	

7.2.9 Contained: MAH (16 signs)

#	Sign	Name	Encoded Representation
1775		MAH _a × AB2	
1776		MAH _a × GUKKAL _a	
1777		MAH _a × KU6 _a	
1778		MAH _a × MAŠ	
1779		MAH _a × NA _a	
1780		MAH _a × (SILA3 _a × UMBIN _a)	
1781		MAH _a × TUG2 _a	
1782		MAH _a × UD5 _a	
1783		MAH _a × UDU _a	
1784		MAH _a × UR _a	
1785		MAH _a × UTUA _a	
1786		MAH _a × ZATU659	
1787		MAH _b × KU6 _a	
1788		MAH _b × MAŠ	
1789		MAH _b × NA _a	
1790		MAH _b × SAL	

7.2.10 Contained: GAN (13 signs)

#	Sign	Name	Encoded Representation
1662		$GAN_c \times DIN$	
1663		$GAN_c \times HI$	
1664		$GAN_c \times (HI \cdot DIN)$	
1665		$GAN_c \times KAS_c$	
1666		$GAN_c \times (KUR_a \cdot A)$	
1667		$GAN_c \times LAGAB_b$	
1668		$GAN_c \times NE_a$	
1669		$GAN_c \times SIG7$	
1670		$GAN_c \times \check{S}E_a$	
1671		$GAN_c \times \check{S}E3 \text{ ten}\hat{u}$	
1672		$GAN_c \times ZATU777$	
1673		$GAN_d \times GE\check{S}TU_a$	
1674		$GAN_d \times HI$	

7.2.11 Contained: URU (10 signs)

#	Sign	Name	Encoded Representation
1999		$URU_{a1} \times 1N_{57}$	
2000		$URU_{a1} \times 2N_{57}$	
2001		$URU_{a1} \times A$	
2002		$URU_{a1} \times AMAR$	
2003		$URU_{a1} \times GU4$	
2004		$URU_{a1} \times HI \text{ gun}\hat{u}_a$	
2005		$URU_{a1} \times NIMGIR$	

#	Sign	Name	Encoded Representation
2006		$URU_{a1} \times U4$	
2007		$URU_{a2} \times 1N_{58}$	
2008		$URU_{a3} \times KALAM_a$	URU_{a3}

7.2.12 Contained: AB (10 signs)

#	Sign	Name	Encoded Representation
1493		$AB_a \times 1N_1$	
1494		$AB_a \times A_{tenû}$	
1495		$AB_a \times A\check{S}_2$	
1496		$AB_a \times KU6_a$	
1497		$AB_a \times SUKKAL$	
1498		$AB_a \times (\check{S}E_a \text{ \& } \check{S}E_a)$	
1499		$AB_a \times ZATU659$	
1500		$AB_b \times A$	
1501		$AB_b \times KU6_a$	
1502		$AB_b \times \check{S}A3_{a1}$	

7.2.13 Contained: UKKIN (8 signs)

#	Sign	Name	Encoded Representation
1985		$UKKIN_b \times 2N_1$	
1986		$UKKIN_b \times 3N_1$	
1987		$UKKIN_b \times 5N_1$	
1988		$UKKIN_b \times DIN$	

#	Sign	Name	Encoded Representation
1989		$UKKIN_b \times (DIN \cdot 1N_1)$	
1990		$UKKIN_b \times DUG_a$	
1991		$UKKIN_b \times HI \text{ gun}\hat{u}_a$	
1992		$UKKIN_b \times NI_a$	

7.2.14 Contained: SZITA (6 signs)

#	Sign	Name	Encoded Representation
1914		$\check{S}ITA_{a1} \times KAK_a$	
1915		$\check{S}ITA_{a1} \times \check{S}U$	
1916		$\check{S}ITA_{a1} \times \check{S}U2$	
1917		$\check{S}ITA_{a1} \times UDU_a$	
1918		$\check{S}ITA_{b1} \times HI \text{ gun}\hat{u}_a$	
1919		$\check{S}ITA_{b3} \times NAM2$	

7.2.15 Contained: Other (23 signs)

#	Sign	Glyph	Encoded Representation
1527	$DU8_c \times HI$		
1528	$DU8_c \times UDU_a$		
1617	$GA_c \times 1N_{14}$		
1618	$GA_c \times KASKAL$		
1705	$GUG2 \times SILA3_a$		
1706	$GUG2 \times \check{S}ITA_{a1}$		

#	Sign	Glyph	Encoded Representation
1707	GUG ₂ × TUR		
1713	HI × 1N _{1F}		1N01F
1714	HI × 1N ₅₇		—
1717	HI × 1N ₅₈		
1768	LAL _{2a} × EZEN _a		
1769	LAL _{2a} × NIM _{b2}		
1792	MAR _b × ŠE _a		
1800	NAM ₂ × 1N ₁		
1995	UR ₂ × 1N ₅₇		—
2020	ZATU659 × 1N ₁		
2021	ZATU659 × 1N ₁₄		•
2022	ZATU659 × 1N ₅₈ tenû		\
2023	ZATU662 × 1N ₁₄		•
2023.1	ZATU662 × 1N ₁₄ v1		1N14 variant 1
2023.2	ZATU662 × 1N ₁₄ v2		1N14 variant 2
2024	ZATU711 × HI gunû _a		
2025	ZATU714 × HI gunû _a		

7.2.16 Adjacent: Touching (61 signs)

#	Sign	Glyph	Encoded Representation
1459	1N ₅₇ • 1N ₅₇		— —

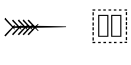
#	Sign	Glyph	Encoded Representation
1461	1N ₅₇ · ŠAH2 _a		—
1462	1N ₅₇ · ŠUBUR		—
1463	1N ₅₈ · BAD _a		BAD a
1464	1N ₅₈ · BAD _b		BAD b
1464.1	1N ₅₈ · BAD _b v1		BAD b variant 1
1465	2N ₅₇ · AB2		=
1466	2N ₅₇ · KU6 _a		=
1467	2N ₅₇ · SU _a		=
1468	2N ₅₇ · ŠUBUR		=
1469	3N ₅₇ · AMAR		=
1470	3N ₅₇ · BARA3		=
1471	3N ₅₇ · E2 _b		=
1472	3N ₅₇ · GAR		=
1473	3N ₅₇ · NUNUZ _{a1}		=
1474	3N ₅₇ · NUNUZ _c		=
1475	3N ₅₇ · PIRIG _{b1}		=
1476	3N ₅₇ · ŠUBUR		=
1478	4N ₅₇ · AMAR		=
1479	4N ₅₇ · GAR		=
1480	4N ₅₇ · KU3 _a		=
1482	5N ₅₇ · GAR		=

#	Sign	Glyph	Encoded Representation
1483	5N ₅₇ • KU3 _a		
1484	6N ₅₇ • GAR		
1485	6N ₅₇ • KU3 _a		
1507	AMAR • 1N ₂		
1510	BU _a + DU6 _a		
1510.1	BU _a + DU6 _a v1		
1518	DA _a • LIŠ		
1595	E2 _a • LIŠ		
1597	E2 _b • LIŠ		
1599	EN2 • E2 _a		
1600	EN2 • E2 _b		
1681	GI × LAGAB _a		
1691	GIR _a • KU6 _a		
1692	GIR _b • GIR _b		
1702	GIŠ • TE		
1716	(HI × 1N ₅₇) & (HI + 1N ₅₇)		
1718	HI × LAGAB _a		
1721	HI • SUHUR		
1721.1	HI • SUHUR v1		
1721.2	HI • SUHUR v2		
1722	IR _a • GA2 _{a1}		

#	Sign	Glyph	Encoded Representation
1802	NI _a · RU		
1833	NUN _a + A		
1842	SAG × GEŠTU _b		
1842.1	SAG × GEŠTU _b v1		GESZTU b variant 1
1844	SAG × LAM _c		
1848	SAL · KUR _a		
1849	SAL · LAM _b		
1850	SAL · ŠU2		
1854	SIG × 1N ₅₇		
1905	(ŠA × HI gunû _a) _a		a
1906	(ŠA × HI gunû _a) _b		b
1924	ŠU2 · E2 _a		
1925	ŠU2 · E2 _b		
1933	TUG2 _a · (BAD & BAD)		
1993	UNUG _a × A tenû		
1998	URI3 _a + IB _a		
2026	ZATU714 · RU		

7.2.17 Adjacent: Non-Touching (24 signs)

#	Sign	Glyph	Encoded Representation
1456	1N ₂ · RU		

#	Sign	Glyph	Encoded Representation
1508	APIN _a · APIN _a		
1517	BU _b · NA2 _a		
1616	GA _a · ZATU753		
1616.1	GA _a · ZATU753 v1		 ZATU753 variant 1
1696	GIŠ tenû · E2 _a		
1704	GU4 · ZATU755 _a		
1732	KU6 _a · 1N ₂		
1733	KUR _a · E2 _a		
1734	KUR _a · NUNUZ _{a1}		
1735	KUR _b · E2 _a		
1797	MUŠEN × PAP _a		
1798	MUŠEN · UR3 _{b2}		
1908	ŠE _a · KIN2 _c		
1921	ŠU2 · 1N ₂		
1922	ŠU2 · 2N ₅₇		
1923	ŠU2 · AN		
1926	ŠU2 · EN _a		
1926.1	ŠU2 · EN _a v1		
1927	ŠU2 · EN _b		
1928	ŠU2 · GIŠ		
1929	ŠU2 · ((HI + 1N ₅₇) + (HI + 1N ₅₇))		

#	Sign	Glyph	Encoded Representation
1930	ŠU2 · URI3 _a		(
2050	(ZU & ZU) · SAR _a		(ZU ZU)

7.2.18 Overlay (23 signs)

#	Sign	Glyph	Encoded Representation
1457	1N ₈ flat × 1N ₅₇		—
1458	1N ₃₄ × 1N ₅₈		
1460	1N ₅₇ · AB2		—
1505	AMAR × TAR		TAR
1511	BU _a × 1N ₅₈		
1512	BU _a × A		
1513	BU _a × GIŠ tenû		
1676	(GI +& GI) × ŠE3		()
1679	GI × GIŠ tenû		
1680	GI × KU _{b1}		
1682	GI × NAM2		
1683	GI × SIG2 _{d1}		
1684	GI × ŠE3		
1688	GI4 _a × A		
1700	GIŠ × ŠU2 _a		SZU2 a
1701	GIŠ × ŠU2 _b		SZU2 b

#	Sign	Glyph	Encoded Representation
1726	KAB × 1N ₅₈		
1773	MA × A		
1799	NAGA _a × TAK4 _a		
1837	NUN _a + NAM2		
1851	SAR _a × ŠE _a		
1853	SI × ŠE3		
1909	ŠE _a · NAM2		
1909.1	ŠE _a · NAM2 v1		NAM2 variant 1
1920	ŠU × 1N ₅₈		
1934	TUR3 _b × TAK4 _a		

7.2.19 Stacked (14 signs)

#	Sign	Glyph	Encoded Representation
1506	AMAR & AMAR		
1509	BAD & BAD		
1685	GI & GI		
1686	(GI & GI) × GIŠ tenû		
1687	GI & GI & GI		
1689	GI4 _a & GI4 _a		
1690	GI4 _b & GI4 _b		
1703	GIŠ3 _a & GIŠ3 _a		

#	Sign	Glyph	Encoded Representation
1832	NU11 & NU11		
1856	SIG2 _b · SIG2 _b		
1907	ŠE _a & ŠE _a		
1931	ŠU & ŠU		
2009	UŠ _a & UŠ _a		
2012	UŠ _b & UŠ _b		

8 Character Data

Character Properties: UnicodeData.txt

```

12580;PROTO-CUNEIFORM NUMERIC SIGN 1 N1;N1;0;L;;;1;N;;;;;
12581;PROTO-CUNEIFORM NUMERIC SIGN 1 N1 FLAT;N1;0;L;;;1;N;;;;;
12582;PROTO-CUNEIFORM NUMERIC SIGN 1 N1 REVERSED;N1;0;L;;;1;N;;;;;
12583;PROTO-CUNEIFORM NUMERIC SIGN 1 N2;N1;0;L;;;1;N;;;;;
12584;PROTO-CUNEIFORM NUMERIC SIGN 1 N3;N1;0;L;;;1;N;;;;;
12585;PROTO-CUNEIFORM NUMERIC SIGN 1 N4;N1;0;L;;;1;N;;;;;
12586;PROTO-CUNEIFORM NUMERIC SIGN 1 N4 FLAT;N1;0;L;;;1;N;;;;;
12587;PROTO-CUNEIFORM NUMERIC SIGN 1 N5;N1;0;L;;;1;N;;;;;
12588;PROTO-CUNEIFORM NUMERIC SIGN 1 N6;N1;0;L;;;1;N;;;;;
12589;PROTO-CUNEIFORM NUMERIC SIGN 1 N8;N1;0;L;;;1;N;;;;;
1258A;PROTO-CUNEIFORM NUMERIC SIGN 1 N8 FLAT;N1;0;L;;;1;N;;;;;
1258B;PROTO-CUNEIFORM NUMERIC SIGN 1 N9;N1;0;L;;;1;N;;;;;
1258C;PROTO-CUNEIFORM NUMERIC SIGN 1 N11;N1;0;L;;;1;N;;;;;
1258D;PROTO-CUNEIFORM NUMERIC SIGN 1 N12;N1;0;L;;;1;N;;;;;
1258E;PROTO-CUNEIFORM NUMERIC SIGN 1 N14;N1;0;L;;;1;N;;;;;
1258F;PROTO-CUNEIFORM NUMERIC SIGN 1 N14 FLAT;N1;0;L;;;1;N;;;;;
12590;PROTO-CUNEIFORM NUMERIC SIGN 1 N15;N1;0;L;;;1;N;;;;;
12591;PROTO-CUNEIFORM NUMERIC SIGN 1 N16;N1;0;L;;;1;N;;;;;
12592;PROTO-CUNEIFORM NUMERIC SIGN 1 N17;N1;0;L;;;1;N;;;;;
12593;PROTO-CUNEIFORM NUMERIC SIGN 1 N18;N1;0;L;;;1;N;;;;;
12594;PROTO-CUNEIFORM NUMERIC SIGN 1 N19;N1;0;L;;;1;N;;;;;
12595;PROTO-CUNEIFORM NUMERIC SIGN 1 N19 FLAT;N1;0;L;;;1;N;;;;;
12596;PROTO-CUNEIFORM NUMERIC SIGN 1 N20;N1;0;L;;;1;N;;;;;
12597;PROTO-CUNEIFORM NUMERIC SIGN 1 N22;N1;0;L;;;1;N;;;;;
12598;PROTO-CUNEIFORM NUMERIC SIGN 1 N22 FLAT;N1;0;L;;;1;N;;;;;
12599;PROTO-CUNEIFORM NUMERIC SIGN 1 N23;N1;0;L;;;1;N;;;;;
1259A;PROTO-CUNEIFORM NUMERIC SIGN 1 N24;N1;0;L;;;1;N;;;;;
1259B;PROTO-CUNEIFORM NUMERIC SIGN 1 N24 FLAT;N1;0;L;;;1;N;;;;;
1259C;PROTO-CUNEIFORM NUMERIC SIGN 1 N25;N1;0;L;;;1;N;;;;;
1259D;PROTO-CUNEIFORM NUMERIC SIGN 1 N26;N1;0;L;;;1;N;;;;;
1259E;PROTO-CUNEIFORM NUMERIC SIGN 1 N26 VARIANT 1;N1;0;L;;;1;N;;;;;
1259F;PROTO-CUNEIFORM NUMERIC SIGN 1 N27;N1;0;L;;;1;N;;;;;
125A0;PROTO-CUNEIFORM NUMERIC SIGN 1 N27 VARIANT 1;N1;0;L;;;1;N;;;;;
125A1;PROTO-CUNEIFORM NUMERIC SIGN 1 N28;N1;0;L;;;1;N;;;;;
125A2;PROTO-CUNEIFORM NUMERIC SIGN 1 N29A-B;N1;0;L;;;1;N;;;;;
125A3;PROTO-CUNEIFORM NUMERIC SIGN 1 N29A-C;N1;0;L;;;1;N;;;;;
125A4;PROTO-CUNEIFORM NUMERIC SIGN 1 N30A-C;N1;0;L;;;1;N;;;;;
125A5;PROTO-CUNEIFORM NUMERIC SIGN 1 N30C-B;N1;0;L;;;1;N;;;;;
125A6;PROTO-CUNEIFORM NUMERIC SIGN 1 N30C-C;N1;0;L;;;1;N;;;;;
125A7;PROTO-CUNEIFORM NUMERIC SIGN 1 N31;N1;0;L;;;1;N;;;;;
125A8;PROTO-CUNEIFORM NUMERIC SIGN 1 N32;N1;0;L;;;1;N;;;;;
125A9;PROTO-CUNEIFORM NUMERIC SIGN 1 N33;N1;0;L;;;1;N;;;;;
125AA;PROTO-CUNEIFORM NUMERIC SIGN 1 N34;N1;0;L;;;1;N;;;;;
125AB;PROTO-CUNEIFORM NUMERIC SIGN 1 N34 FLAT;N1;0;L;;;1;N;;;;;
125AC;PROTO-CUNEIFORM NUMERIC SIGN 1 N34 FLAT TENU;N1;0;L;;;1;N;;;;;

```


125AD;PROTO-CUNEIFORM NUMERIC SIGN 1 N35;N1;0;L;;;1;N;;;;;
 125AE;PROTO-CUNEIFORM NUMERIC SIGN 1 N36;N1;0;L;;;1;N;;;;;
 125AF;PROTO-CUNEIFORM NUMERIC SIGN 1 N36 FLAT;N1;0;L;;;1;N;;;;;
 125B0;PROTO-CUNEIFORM NUMERIC SIGN 1 N37;N1;0;L;;;1;N;;;;;
 125B1;PROTO-CUNEIFORM NUMERIC SIGN 1 N38;N1;0;L;;;1;N;;;;;
 125B2;PROTO-CUNEIFORM NUMERIC SIGN 1 N40;N1;0;L;;;1;N;;;;;
 125B3;PROTO-CUNEIFORM NUMERIC SIGN 1 N41;N1;0;L;;;1;N;;;;;
 125B4;PROTO-CUNEIFORM NUMERIC SIGN 1 N43;N1;0;L;;;1;N;;;;;
 125B5;PROTO-CUNEIFORM NUMERIC SIGN 1 N44;N1;0;L;;;1;N;;;;;
 125B6;PROTO-CUNEIFORM NUMERIC SIGN 1 N45;N1;0;L;;;1;N;;;;;
 125B7;PROTO-CUNEIFORM NUMERIC SIGN 1 N45 FLAT;N1;0;L;;;1;N;;;;;
 125B8;PROTO-CUNEIFORM NUMERIC SIGN 1 N46;N1;0;L;;;1;N;;;;;
 125B9;PROTO-CUNEIFORM NUMERIC SIGN 1 N46 FLAT;N1;0;L;;;1;N;;;;;
 125BA;PROTO-CUNEIFORM NUMERIC SIGN 1 N47;N1;0;L;;;1;N;;;;;
 125BB;PROTO-CUNEIFORM NUMERIC SIGN 1 N48;N1;0;L;;;1;N;;;;;
 125BC;PROTO-CUNEIFORM NUMERIC SIGN 1 N48 FLAT;N1;0;L;;;1;N;;;;;
 125BD;PROTO-CUNEIFORM NUMERIC SIGN 1 N49;N1;0;L;;;1;N;;;;;
 125BE;PROTO-CUNEIFORM NUMERIC SIGN 1 N50;N1;0;L;;;1;N;;;;;
 125BF;PROTO-CUNEIFORM NUMERIC SIGN 1 N51;N1;0;L;;;1;N;;;;;
 125C0;PROTO-CUNEIFORM NUMERIC SIGN 1 N51 FLAT;N1;0;L;;;1;N;;;;;
 125C1;PROTO-CUNEIFORM NUMERIC SIGN 1 N52;N1;0;L;;;1;N;;;;;
 125C2;PROTO-CUNEIFORM NUMERIC SIGN 1 N54;N1;0;L;;;1;N;;;;;
 125C3;PROTO-CUNEIFORM NUMERIC SIGN 1 N55;N1;0;L;;;1;N;;;;;
 125C4;PROTO-CUNEIFORM NUMERIC SIGN 1 N56;N1;0;L;;;1;N;;;;;
 125C5;PROTO-CUNEIFORM NUMERIC SIGN 1 N57;N1;0;L;;;1;N;;;;;
 125C6;PROTO-CUNEIFORM NUMERIC SIGN 1 N58;N1;0;L;;;1;N;;;;;
 125C7;PROTO-CUNEIFORM NUMERIC SIGN 1 N58 TENU;N1;0;L;;;1;N;;;;;
 125C8;PROTO-CUNEIFORM NUMERIC SIGN 1 N60;N1;0;L;;;1;N;;;;;
 125C9;PROTO-CUNEIFORM NUMERIC SIGN 1 N63;N1;0;L;;;1;N;;;;;
 125CA;PROTO-CUNEIFORM NUMERIC SIGN 1 N7-A;N1;0;L;;;1;N;;;;;
 125CB;PROTO-CUNEIFORM NUMERIC SIGN 1 N7-B;N1;0;L;;;1;N;;;;;
 125CC;PROTO-CUNEIFORM NUMERIC SIGN 1 N8-B;N1;0;L;;;1;N;;;;;
 125CD;PROTO-CUNEIFORM NUMERIC SIGN 1 N24-A;N1;0;L;;;1;N;;;;;
 125CE;PROTO-CUNEIFORM NUMERIC SIGN 1 N24-B;N1;0;L;;;1;N;;;;;
 125CF;PROTO-CUNEIFORM NUMERIC SIGN 1 N26-B;N1;0;L;;;1;N;;;;;
 125D0;PROTO-CUNEIFORM NUMERIC SIGN 1 N28-B;N1;0;L;;;1;N;;;;;
 125D1;PROTO-CUNEIFORM NUMERIC SIGN 1 N28-C;N1;0;L;;;1;N;;;;;
 125D2;PROTO-CUNEIFORM NUMERIC SIGN 1 N29-A;N1;0;L;;;1;N;;;;;
 125D3;PROTO-CUNEIFORM NUMERIC SIGN 1 N29-A VARIANT 1;N1;0;L;;;1;N;;;;;
 125D4;PROTO-CUNEIFORM NUMERIC SIGN 1 N29-B;N1;0;L;;;1;N;;;;;
 125D5;PROTO-CUNEIFORM NUMERIC SIGN 1 N30-A;N1;0;L;;;1;N;;;;;
 125D6;PROTO-CUNEIFORM NUMERIC SIGN 1 N30-A VARIANT 1;N1;0;L;;;1;N;;;;;
 125D7;PROTO-CUNEIFORM NUMERIC SIGN 1 N30-C;N1;0;L;;;1;N;;;;;
 125D8;PROTO-CUNEIFORM NUMERIC SIGN 1 N30-D;N1;0;L;;;1;N;;;;;
 125D9;PROTO-CUNEIFORM NUMERIC SIGN 1 N30-E;N1;0;L;;;1;N;;;;;
 125DA;PROTO-CUNEIFORM NUMERIC SIGN 1 N39-A;N1;0;L;;;1;N;;;;;
 125DB;PROTO-CUNEIFORM NUMERIC SIGN 1 N39-B;N1;0;L;;;1;N;;;;;
 125DC;PROTO-CUNEIFORM NUMERIC SIGN 1 N42-A;N1;0;L;;;1;N;;;;;
 125DD;PROTO-CUNEIFORM NUMERIC SIGN 1 N42-B;N1;0;L;;;1;N;;;;;
 125DE;PROTO-CUNEIFORM NUMERIC SIGN 1 N45-A;N1;0;L;;;1;N;;;;;

125DF;PROTO-CUNEIFORM NUMERIC SIGN 2 N1;N1;0;L;;;;2;N;;;;;
 125E0;PROTO-CUNEIFORM NUMERIC SIGN 2 N1 FLAT;N1;0;L;;;;2;N;;;;;
 125E1;PROTO-CUNEIFORM NUMERIC SIGN 2 N2;N1;0;L;;;;2;N;;;;;
 125E2;PROTO-CUNEIFORM NUMERIC SIGN 2 N3;N1;0;L;;;;2;N;;;;;
 125E3;PROTO-CUNEIFORM NUMERIC SIGN 2 N4;N1;0;L;;;;2;N;;;;;
 125E4;PROTO-CUNEIFORM NUMERIC SIGN 2 N4 FLAT;N1;0;L;;;;2;N;;;;;
 125E5;PROTO-CUNEIFORM NUMERIC SIGN 2 N5;N1;0;L;;;;2;N;;;;;
 125E6;PROTO-CUNEIFORM NUMERIC SIGN 2 N8;N1;0;L;;;;2;N;;;;;
 125E7;PROTO-CUNEIFORM NUMERIC SIGN 2 N14;N1;0;L;;;;2;N;;;;;
 125E8;PROTO-CUNEIFORM NUMERIC SIGN 2 N14 FLAT;N1;0;L;;;;2;N;;;;;
 125E9;PROTO-CUNEIFORM NUMERIC SIGN 2 N15;N1;0;L;;;;2;N;;;;;
 125EA;PROTO-CUNEIFORM NUMERIC SIGN 2 N18;N1;0;L;;;;2;N;;;;;
 125EB;PROTO-CUNEIFORM NUMERIC SIGN 2 N19;N1;0;L;;;;2;N;;;;;
 125EC;PROTO-CUNEIFORM NUMERIC SIGN 2 N19 FLAT;N1;0;L;;;;2;N;;;;;
 125ED;PROTO-CUNEIFORM NUMERIC SIGN 2 N20;N1;0;L;;;;2;N;;;;;
 125EE;PROTO-CUNEIFORM NUMERIC SIGN 2 N21;N1;0;L;;;;2;N;;;;;
 125EF;PROTO-CUNEIFORM NUMERIC SIGN 2 N22;N1;0;L;;;;2;N;;;;;
 125F0;PROTO-CUNEIFORM NUMERIC SIGN 2 N22 FLAT;N1;0;L;;;;2;N;;;;;
 125F1;PROTO-CUNEIFORM NUMERIC SIGN 2 N23;N1;0;L;;;;2;N;;;;;
 125F2;PROTO-CUNEIFORM NUMERIC SIGN 2 N24;N1;0;L;;;;2;N;;;;;
 125F3;PROTO-CUNEIFORM NUMERIC SIGN 2 N29A-B;N1;0;L;;;;2;N;;;;;
 125F4;PROTO-CUNEIFORM NUMERIC SIGN 2 N34;N1;0;L;;;;2;N;;;;;
 125F5;PROTO-CUNEIFORM NUMERIC SIGN 2 N34 FLAT;N1;0;L;;;;2;N;;;;;
 125F6;PROTO-CUNEIFORM NUMERIC SIGN 2 N35;N1;0;L;;;;2;N;;;;;
 125F7;PROTO-CUNEIFORM NUMERIC SIGN 2 N36;N1;0;L;;;;2;N;;;;;
 125F8;PROTO-CUNEIFORM NUMERIC SIGN 2 N37;N1;0;L;;;;2;N;;;;;
 125F9;PROTO-CUNEIFORM NUMERIC SIGN 2 N40;N1;0;L;;;;2;N;;;;;
 125FA;PROTO-CUNEIFORM NUMERIC SIGN 2 N41;N1;0;L;;;;2;N;;;;;
 125FB;PROTO-CUNEIFORM NUMERIC SIGN 2 N45;N1;0;L;;;;2;N;;;;;
 125FC;PROTO-CUNEIFORM NUMERIC SIGN 2 N45 FLAT;N1;0;L;;;;2;N;;;;;
 125FD;PROTO-CUNEIFORM NUMERIC SIGN 2 N46;N1;0;L;;;;2;N;;;;;
 125FE;PROTO-CUNEIFORM NUMERIC SIGN 2 N46 FLAT;N1;0;L;;;;2;N;;;;;
 125FF;PROTO-CUNEIFORM NUMERIC SIGN 2 N47;N1;0;L;;;;2;N;;;;;
 12600;PROTO-CUNEIFORM NUMERIC SIGN 2 N48;N1;0;L;;;;2;N;;;;;
 12601;PROTO-CUNEIFORM NUMERIC SIGN 2 N49;N1;0;L;;;;2;N;;;;;
 12602;PROTO-CUNEIFORM NUMERIC SIGN 2 N50;N1;0;L;;;;2;N;;;;;
 12603;PROTO-CUNEIFORM NUMERIC SIGN 2 N51;N1;0;L;;;;2;N;;;;;
 12604;PROTO-CUNEIFORM NUMERIC SIGN 2 N51 FLAT;N1;0;L;;;;2;N;;;;;
 12605;PROTO-CUNEIFORM NUMERIC SIGN 2 N52;N1;0;L;;;;2;N;;;;;
 12606;PROTO-CUNEIFORM NUMERIC SIGN 2 N54;N1;0;L;;;;2;N;;;;;
 12607;PROTO-CUNEIFORM NUMERIC SIGN 2 N56;N1;0;L;;;;2;N;;;;;
 12608;PROTO-CUNEIFORM NUMERIC SIGN 2 N57;N1;0;L;;;;2;N;;;;;
 12609;PROTO-CUNEIFORM NUMERIC SIGN 2 N58;N1;0;L;;;;2;N;;;;;
 1260A;PROTO-CUNEIFORM NUMERIC SIGN 2 N59;N1;0;L;;;;2;N;;;;;
 1260B;PROTO-CUNEIFORM NUMERIC SIGN 2 N7-A;N1;0;L;;;;2;N;;;;;
 1260C;PROTO-CUNEIFORM NUMERIC SIGN 2 N7-B;N1;0;L;;;;2;N;;;;;
 1260D;PROTO-CUNEIFORM NUMERIC SIGN 2 N8-B;N1;0;L;;;;2;N;;;;;
 1260E;PROTO-CUNEIFORM NUMERIC SIGN 2 N29-A;N1;0;L;;;;2;N;;;;;
 1260F;PROTO-CUNEIFORM NUMERIC SIGN 2 N39-A;N1;0;L;;;;2;N;;;;;
 12610;PROTO-CUNEIFORM NUMERIC SIGN 2 N39-B;N1;0;L;;;;2;N;;;;;

12611;PROTO-CUNEIFORM NUMERIC SIGN 2 N42-A;N1;0;L;3;3;2;N;3;3;
 12612;PROTO-CUNEIFORM NUMERIC SIGN 2 N42-B;N1;0;L;3;3;2;N;3;3;
 12613;PROTO-CUNEIFORM NUMERIC SIGN 2 LAGAB-A;N1;0;L;3;3;2;N;3;3;
 12614;PROTO-CUNEIFORM NUMERIC SIGN 3 N1;N1;0;L;3;3;3;N;3;3;
 12615;PROTO-CUNEIFORM NUMERIC SIGN 3 N1 FLAT;N1;0;L;3;3;3;N;3;3;
 12616;PROTO-CUNEIFORM NUMERIC SIGN 3 N2;N1;0;L;3;3;3;N;3;3;
 12617;PROTO-CUNEIFORM NUMERIC SIGN 3 N3;N1;0;L;3;3;3;N;3;3;
 12618;PROTO-CUNEIFORM NUMERIC SIGN 3 N4;N1;0;L;3;3;3;N;3;3;
 12619;PROTO-CUNEIFORM NUMERIC SIGN 3 N4 FLAT;N1;0;L;3;3;3;N;3;3;
 1261A;PROTO-CUNEIFORM NUMERIC SIGN 3 N5;N1;0;L;3;3;3;N;3;3;
 1261B;PROTO-CUNEIFORM NUMERIC SIGN 3 N8;N1;0;L;3;3;3;N;3;3;
 1261C;PROTO-CUNEIFORM NUMERIC SIGN 3 N14;N1;0;L;3;3;3;N;3;3;
 1261D;PROTO-CUNEIFORM NUMERIC SIGN 3 N14 FLAT;N1;0;L;3;3;3;N;3;3;
 1261E;PROTO-CUNEIFORM NUMERIC SIGN 3 N15;N1;0;L;3;3;3;N;3;3;
 1261F;PROTO-CUNEIFORM NUMERIC SIGN 3 N18;N1;0;L;3;3;3;N;3;3;
 12620;PROTO-CUNEIFORM NUMERIC SIGN 3 N19;N1;0;L;3;3;3;N;3;3;
 12621;PROTO-CUNEIFORM NUMERIC SIGN 3 N19 FLAT;N1;0;L;3;3;3;N;3;3;
 12622;PROTO-CUNEIFORM NUMERIC SIGN 3 N20;N1;0;L;3;3;3;N;3;3;
 12623;PROTO-CUNEIFORM NUMERIC SIGN 3 N21;N1;0;L;3;3;3;N;3;3;
 12624;PROTO-CUNEIFORM NUMERIC SIGN 3 N23;N1;0;L;3;3;3;N;3;3;
 12625;PROTO-CUNEIFORM NUMERIC SIGN 3 N34;N1;0;L;3;3;3;N;3;3;
 12626;PROTO-CUNEIFORM NUMERIC SIGN 3 N34 FLAT;N1;0;L;3;3;3;N;3;3;
 12627;PROTO-CUNEIFORM NUMERIC SIGN 3 N36;N1;0;L;3;3;3;N;3;3;
 12628;PROTO-CUNEIFORM NUMERIC SIGN 3 N40;N1;0;L;3;3;3;N;3;3;
 12629;PROTO-CUNEIFORM NUMERIC SIGN 3 N41;N1;0;L;3;3;3;N;3;3;
 1262A;PROTO-CUNEIFORM NUMERIC SIGN 3 N45;N1;0;L;3;3;3;N;3;3;
 1262B;PROTO-CUNEIFORM NUMERIC SIGN 3 N45 FLAT;N1;0;L;3;3;3;N;3;3;
 1262C;PROTO-CUNEIFORM NUMERIC SIGN 3 N46;N1;0;L;3;3;3;N;3;3;
 1262D;PROTO-CUNEIFORM NUMERIC SIGN 3 N47;N1;0;L;3;3;3;N;3;3;
 1262E;PROTO-CUNEIFORM NUMERIC SIGN 3 N48;N1;0;L;3;3;3;N;3;3;
 1262F;PROTO-CUNEIFORM NUMERIC SIGN 3 N49;N1;0;L;3;3;3;N;3;3;
 12630;PROTO-CUNEIFORM NUMERIC SIGN 3 N50;N1;0;L;3;3;3;N;3;3;
 12631;PROTO-CUNEIFORM NUMERIC SIGN 3 N51;N1;0;L;3;3;3;N;3;3;
 12632;PROTO-CUNEIFORM NUMERIC SIGN 3 N51 FLAT;N1;0;L;3;3;3;N;3;3;
 12633;PROTO-CUNEIFORM NUMERIC SIGN 3 N52;N1;0;L;3;3;3;N;3;3;
 12634;PROTO-CUNEIFORM NUMERIC SIGN 3 N53;N1;0;L;3;3;3;N;3;3;
 12635;PROTO-CUNEIFORM NUMERIC SIGN 3 N54;N1;0;L;3;3;3;N;3;3;
 12636;PROTO-CUNEIFORM NUMERIC SIGN 3 N57;N1;0;L;3;3;3;N;3;3;
 12637;PROTO-CUNEIFORM NUMERIC SIGN 3 N58;N1;0;L;3;3;3;N;3;3;
 12638;PROTO-CUNEIFORM NUMERIC SIGN 3 N59;N1;0;L;3;3;3;N;3;3;
 12639;PROTO-CUNEIFORM NUMERIC SIGN 3 N61;N1;0;L;3;3;3;N;3;3;
 1263A;PROTO-CUNEIFORM NUMERIC SIGN 3 N7-A;N1;0;L;3;3;3;N;3;3;
 1263B;PROTO-CUNEIFORM NUMERIC SIGN 3 N7-B;N1;0;L;3;3;3;N;3;3;
 1263C;PROTO-CUNEIFORM NUMERIC SIGN 3 N8-B;N1;0;L;3;3;3;N;3;3;
 1263D;PROTO-CUNEIFORM NUMERIC SIGN 3 N39-A;N1;0;L;3;3;3;N;3;3;
 1263E;PROTO-CUNEIFORM NUMERIC SIGN 3 N39-B;N1;0;L;3;3;3;N;3;3;
 1263F;PROTO-CUNEIFORM NUMERIC SIGN 3 N42-A;N1;0;L;3;3;3;N;3;3;
 12640;PROTO-CUNEIFORM NUMERIC SIGN 3 N42-B;N1;0;L;3;3;3;N;3;3;
 12641;PROTO-CUNEIFORM NUMERIC SIGN 4 N1;N1;0;L;3;3;4;N;3;3;
 12642;PROTO-CUNEIFORM NUMERIC SIGN 4 N1 FLAT;N1;0;L;3;3;4;N;3;3;

12643;PROTO-CUNEIFORM NUMERIC SIGN 4 N2;N1;0;L;;;4;N;;;;;
 12644;PROTO-CUNEIFORM NUMERIC SIGN 4 N3;N1;0;L;;;4;N;;;;;
 12645;PROTO-CUNEIFORM NUMERIC SIGN 4 N4;N1;0;L;;;4;N;;;;;
 12646;PROTO-CUNEIFORM NUMERIC SIGN 4 N4 FLAT;N1;0;L;;;4;N;;;;;
 12647;PROTO-CUNEIFORM NUMERIC SIGN 4 N5;N1;0;L;;;4;N;;;;;
 12648;PROTO-CUNEIFORM NUMERIC SIGN 4 N8;N1;0;L;;;4;N;;;;;
 12649;PROTO-CUNEIFORM NUMERIC SIGN 4 N14;N1;0;L;;;4;N;;;;;
 1264A;PROTO-CUNEIFORM NUMERIC SIGN 4 N14 FLAT;N1;0;L;;;4;N;;;;;
 1264B;PROTO-CUNEIFORM NUMERIC SIGN 4 N15;N1;0;L;;;4;N;;;;;
 1264C;PROTO-CUNEIFORM NUMERIC SIGN 4 N18;N1;0;L;;;4;N;;;;;
 1264D;PROTO-CUNEIFORM NUMERIC SIGN 4 N19;N1;0;L;;;4;N;;;;;
 1264E;PROTO-CUNEIFORM NUMERIC SIGN 4 N19 FLAT;N1;0;L;;;4;N;;;;;
 1264F;PROTO-CUNEIFORM NUMERIC SIGN 4 N20;N1;0;L;;;4;N;;;;;
 12650;PROTO-CUNEIFORM NUMERIC SIGN 4 N21;N1;0;L;;;4;N;;;;;
 12651;PROTO-CUNEIFORM NUMERIC SIGN 4 N24;N1;0;L;;;4;N;;;;;
 12652;PROTO-CUNEIFORM NUMERIC SIGN 4 N34;N1;0;L;;;4;N;;;;;
 12653;PROTO-CUNEIFORM NUMERIC SIGN 4 N34 FLAT;N1;0;L;;;4;N;;;;;
 12654;PROTO-CUNEIFORM NUMERIC SIGN 4 N36;N1;0;L;;;4;N;;;;;
 12655;PROTO-CUNEIFORM NUMERIC SIGN 4 N40;N1;0;L;;;4;N;;;;;
 12656;PROTO-CUNEIFORM NUMERIC SIGN 4 N41;N1;0;L;;;4;N;;;;;
 12657;PROTO-CUNEIFORM NUMERIC SIGN 4 N43;N1;0;L;;;4;N;;;;;
 12658;PROTO-CUNEIFORM NUMERIC SIGN 4 N45;N1;0;L;;;4;N;;;;;
 12659;PROTO-CUNEIFORM NUMERIC SIGN 4 N45 FLAT;N1;0;L;;;4;N;;;;;
 1265A;PROTO-CUNEIFORM NUMERIC SIGN 4 N48;N1;0;L;;;4;N;;;;;
 1265B;PROTO-CUNEIFORM NUMERIC SIGN 4 N49;N1;0;L;;;4;N;;;;;
 1265C;PROTO-CUNEIFORM NUMERIC SIGN 4 N50;N1;0;L;;;4;N;;;;;
 1265D;PROTO-CUNEIFORM NUMERIC SIGN 4 N51;N1;0;L;;;4;N;;;;;
 1265E;PROTO-CUNEIFORM NUMERIC SIGN 4 N51 FLAT;N1;0;L;;;4;N;;;;;
 1265F;PROTO-CUNEIFORM NUMERIC SIGN 4 N52;N1;0;L;;;4;N;;;;;
 12660;PROTO-CUNEIFORM NUMERIC SIGN 4 N54;N1;0;L;;;4;N;;;;;
 12661;PROTO-CUNEIFORM NUMERIC SIGN 4 N57;N1;0;L;;;4;N;;;;;
 12662;PROTO-CUNEIFORM NUMERIC SIGN 4 N58;N1;0;L;;;4;N;;;;;
 12663;PROTO-CUNEIFORM NUMERIC SIGN 4 N59;N1;0;L;;;4;N;;;;;
 12664;PROTO-CUNEIFORM NUMERIC SIGN 4 N62;N1;0;L;;;4;N;;;;;
 12665;PROTO-CUNEIFORM NUMERIC SIGN 4 N8-B;N1;0;L;;;4;N;;;;;
 12666;PROTO-CUNEIFORM NUMERIC SIGN 4 N8-C;N1;0;L;;;4;N;;;;;
 12667;PROTO-CUNEIFORM NUMERIC SIGN 4 N39-A;N1;0;L;;;4;N;;;;;
 12668;PROTO-CUNEIFORM NUMERIC SIGN 4 N39-B;N1;0;L;;;4;N;;;;;
 12669;PROTO-CUNEIFORM NUMERIC SIGN 4 N42-A;N1;0;L;;;4;N;;;;;
 1266A;PROTO-CUNEIFORM NUMERIC SIGN 4 N42-B;N1;0;L;;;4;N;;;;;
 1266B;PROTO-CUNEIFORM NUMERIC SIGN 4 LAGAB-A;N1;0;L;;;4;N;;;;;
 1266C;PROTO-CUNEIFORM NUMERIC SIGN 5 N1;N1;0;L;;;5;N;;;;;
 1266D;PROTO-CUNEIFORM NUMERIC SIGN 5 N1 FLAT;N1;0;L;;;5;N;;;;;
 1266E;PROTO-CUNEIFORM NUMERIC SIGN 5 N2;N1;0;L;;;5;N;;;;;
 1266F;PROTO-CUNEIFORM NUMERIC SIGN 5 N3;N1;0;L;;;5;N;;;;;
 12670;PROTO-CUNEIFORM NUMERIC SIGN 5 N4;N1;0;L;;;5;N;;;;;
 12671;PROTO-CUNEIFORM NUMERIC SIGN 5 N4 FLAT;N1;0;L;;;5;N;;;;;
 12672;PROTO-CUNEIFORM NUMERIC SIGN 5 N5;N1;0;L;;;5;N;;;;;
 12673;PROTO-CUNEIFORM NUMERIC SIGN 5 N8;N1;0;L;;;5;N;;;;;
 12674;PROTO-CUNEIFORM NUMERIC SIGN 5 N14;N1;0;L;;;5;N;;;;;

12675;PROTO-CUNEIFORM NUMERIC SIGN 5 N14 VARIANT 1;N1;0;L;5;N;5;
 12676;PROTO-CUNEIFORM NUMERIC SIGN 5 N14 FLAT;N1;0;L;5;N;5;
 12677;PROTO-CUNEIFORM NUMERIC SIGN 5 N15;N1;0;L;5;N;5;
 12678;PROTO-CUNEIFORM NUMERIC SIGN 5 N18;N1;0;L;5;N;5;
 12679;PROTO-CUNEIFORM NUMERIC SIGN 5 N19;N1;0;L;5;N;5;
 1267A;PROTO-CUNEIFORM NUMERIC SIGN 5 N19 FLAT;N1;0;L;5;N;5;
 1267B;PROTO-CUNEIFORM NUMERIC SIGN 5 N20;N1;0;L;5;N;5;
 1267C;PROTO-CUNEIFORM NUMERIC SIGN 5 N21;N1;0;L;5;N;5;
 1267D;PROTO-CUNEIFORM NUMERIC SIGN 5 N23;N1;0;L;5;N;5;
 1267E;PROTO-CUNEIFORM NUMERIC SIGN 5 N34;N1;0;L;5;N;5;
 1267F;PROTO-CUNEIFORM NUMERIC SIGN 5 N34 FLAT;N1;0;L;5;N;5;
 12680;PROTO-CUNEIFORM NUMERIC SIGN 5 N35;N1;0;L;5;N;5;
 12681;PROTO-CUNEIFORM NUMERIC SIGN 5 N36;N1;0;L;5;N;5;
 12682;PROTO-CUNEIFORM NUMERIC SIGN 5 N45;N1;0;L;5;N;5;
 12683;PROTO-CUNEIFORM NUMERIC SIGN 5 N45 FLAT;N1;0;L;5;N;5;
 12684;PROTO-CUNEIFORM NUMERIC SIGN 5 N48;N1;0;L;5;N;5;
 12685;PROTO-CUNEIFORM NUMERIC SIGN 5 N49;N1;0;L;5;N;5;
 12686;PROTO-CUNEIFORM NUMERIC SIGN 5 N50;N1;0;L;5;N;5;
 12687;PROTO-CUNEIFORM NUMERIC SIGN 5 N51;N1;0;L;5;N;5;
 12688;PROTO-CUNEIFORM NUMERIC SIGN 5 N51 FLAT;N1;0;L;5;N;5;
 12689;PROTO-CUNEIFORM NUMERIC SIGN 5 N52;N1;0;L;5;N;5;
 1268A;PROTO-CUNEIFORM NUMERIC SIGN 5 N54;N1;0;L;5;N;5;
 1268B;PROTO-CUNEIFORM NUMERIC SIGN 5 N57;N1;0;L;5;N;5;
 1268C;PROTO-CUNEIFORM NUMERIC SIGN 5 N58;N1;0;L;5;N;5;
 1268D;PROTO-CUNEIFORM NUMERIC SIGN 6 N1;N1;0;L;6;N;5;
 1268E;PROTO-CUNEIFORM NUMERIC SIGN 6 N1 FLAT;N1;0;L;6;N;5;
 1268F;PROTO-CUNEIFORM NUMERIC SIGN 6 N2;N1;0;L;6;N;5;
 12690;PROTO-CUNEIFORM NUMERIC SIGN 6 N8;N1;0;L;6;N;5;
 12691;PROTO-CUNEIFORM NUMERIC SIGN 6 N14;N1;0;L;6;N;5;
 12692;PROTO-CUNEIFORM NUMERIC SIGN 6 N14 VARIANT 1;N1;0;L;6;N;5;
 12693;PROTO-CUNEIFORM NUMERIC SIGN 6 N14 FLAT;N1;0;L;6;N;5;
 12694;PROTO-CUNEIFORM NUMERIC SIGN 6 N18;N1;0;L;6;N;5;
 12695;PROTO-CUNEIFORM NUMERIC SIGN 6 N19;N1;0;L;6;N;5;
 12696;PROTO-CUNEIFORM NUMERIC SIGN 6 N19 FLAT;N1;0;L;6;N;5;
 12697;PROTO-CUNEIFORM NUMERIC SIGN 6 N20;N1;0;L;6;N;5;
 12698;PROTO-CUNEIFORM NUMERIC SIGN 6 N21;N1;0;L;6;N;5;
 12699;PROTO-CUNEIFORM NUMERIC SIGN 6 N24;N1;0;L;6;N;5;
 1269A;PROTO-CUNEIFORM NUMERIC SIGN 6 N34;N1;0;L;6;N;5;
 1269B;PROTO-CUNEIFORM NUMERIC SIGN 6 N34 FLAT;N1;0;L;6;N;5;
 1269C;PROTO-CUNEIFORM NUMERIC SIGN 6 N36;N1;0;L;6;N;5;
 1269D;PROTO-CUNEIFORM NUMERIC SIGN 6 N45;N1;0;L;6;N;5;
 1269E;PROTO-CUNEIFORM NUMERIC SIGN 6 N45 FLAT;N1;0;L;6;N;5;
 1269F;PROTO-CUNEIFORM NUMERIC SIGN 6 N48;N1;0;L;6;N;5;
 126A0;PROTO-CUNEIFORM NUMERIC SIGN 6 N51;N1;0;L;6;N;5;
 126A1;PROTO-CUNEIFORM NUMERIC SIGN 6 N51 FLAT;N1;0;L;6;N;5;
 126A2;PROTO-CUNEIFORM NUMERIC SIGN 6 N57;N1;0;L;6;N;5;
 126A3;PROTO-CUNEIFORM NUMERIC SIGN 6 N57 VARIANT 1;N1;0;L;6;N;5;
 126A4;PROTO-CUNEIFORM NUMERIC SIGN 6 LAGAB-A;N1;0;L;6;N;5;
 126A5;PROTO-CUNEIFORM NUMERIC SIGN 7 N1;N1;0;L;7;N;5;
 126A6;PROTO-CUNEIFORM NUMERIC SIGN 7 N1 FLAT;N1;0;L;7;N;5;

126A7;PROTO-CUNEIFORM NUMERIC SIGN 7 N2;N1;0;L;;;;7;N;;;;;
 126A8;PROTO-CUNEIFORM NUMERIC SIGN 7 N8;N1;0;L;;;;7;N;;;;;
 126A9;PROTO-CUNEIFORM NUMERIC SIGN 7 N14;N1;0;L;;;;7;N;;;;;
 126AA;PROTO-CUNEIFORM NUMERIC SIGN 7 N14 FLAT;N1;0;L;;;;7;N;;;;;
 126AB;PROTO-CUNEIFORM NUMERIC SIGN 7 N18;N1;0;L;;;;7;N;;;;;
 126AC;PROTO-CUNEIFORM NUMERIC SIGN 7 N19;N1;0;L;;;;7;N;;;;;
 126AD;PROTO-CUNEIFORM NUMERIC SIGN 7 N19 FLAT;N1;0;L;;;;7;N;;;;;
 126AE;PROTO-CUNEIFORM NUMERIC SIGN 7 N20;N1;0;L;;;;7;N;;;;;
 126AF;PROTO-CUNEIFORM NUMERIC SIGN 7 N23;N1;0;L;;;;7;N;;;;;
 126B0;PROTO-CUNEIFORM NUMERIC SIGN 7 N34;N1;0;L;;;;7;N;;;;;
 126B1;PROTO-CUNEIFORM NUMERIC SIGN 7 N34 FLAT;N1;0;L;;;;7;N;;;;;
 126B2;PROTO-CUNEIFORM NUMERIC SIGN 7 N36;N1;0;L;;;;7;N;;;;;
 126B3;PROTO-CUNEIFORM NUMERIC SIGN 7 N45;N1;0;L;;;;7;N;;;;;
 126B4;PROTO-CUNEIFORM NUMERIC SIGN 7 N45 FLAT;N1;0;L;;;;7;N;;;;;
 126B5;PROTO-CUNEIFORM NUMERIC SIGN 7 N48;N1;0;L;;;;7;N;;;;;
 126B6;PROTO-CUNEIFORM NUMERIC SIGN 7 N51;N1;0;L;;;;7;N;;;;;
 126B7;PROTO-CUNEIFORM NUMERIC SIGN 7 N51 FLAT;N1;0;L;;;;7;N;;;;;
 126B8;PROTO-CUNEIFORM NUMERIC SIGN 7 N57;N1;0;L;;;;7;N;;;;;
 126B9;PROTO-CUNEIFORM NUMERIC SIGN 8 N1;N1;0;L;;;;8;N;;;;;
 126BA;PROTO-CUNEIFORM NUMERIC SIGN 8 N1 FLAT;N1;0;L;;;;8;N;;;;;
 126BB;PROTO-CUNEIFORM NUMERIC SIGN 8 N2;N1;0;L;;;;8;N;;;;;
 126BC;PROTO-CUNEIFORM NUMERIC SIGN 8 N8;N1;0;L;;;;8;N;;;;;
 126BD;PROTO-CUNEIFORM NUMERIC SIGN 8 N14;N1;0;L;;;;8;N;;;;;
 126BE;PROTO-CUNEIFORM NUMERIC SIGN 8 N14 FLAT;N1;0;L;;;;8;N;;;;;
 126BF;PROTO-CUNEIFORM NUMERIC SIGN 8 N18;N1;0;L;;;;8;N;;;;;
 126C0;PROTO-CUNEIFORM NUMERIC SIGN 8 N19;N1;0;L;;;;8;N;;;;;
 126C1;PROTO-CUNEIFORM NUMERIC SIGN 8 N19 FLAT;N1;0;L;;;;8;N;;;;;
 126C2;PROTO-CUNEIFORM NUMERIC SIGN 8 N20;N1;0;L;;;;8;N;;;;;
 126C3;PROTO-CUNEIFORM NUMERIC SIGN 8 N34;N1;0;L;;;;8;N;;;;;
 126C4;PROTO-CUNEIFORM NUMERIC SIGN 8 N34 FLAT;N1;0;L;;;;8;N;;;;;
 126C5;PROTO-CUNEIFORM NUMERIC SIGN 8 N36;N1;0;L;;;;8;N;;;;;
 126C6;PROTO-CUNEIFORM NUMERIC SIGN 8 N45 FLAT;N1;0;L;;;;8;N;;;;;
 126C7;PROTO-CUNEIFORM NUMERIC SIGN 8 N51;N1;0;L;;;;8;N;;;;;
 126C8;PROTO-CUNEIFORM NUMERIC SIGN 8 N51 FLAT;N1;0;L;;;;8;N;;;;;
 126C9;PROTO-CUNEIFORM NUMERIC SIGN 8 N57;N1;0;L;;;;8;N;;;;;
 126CA;PROTO-CUNEIFORM NUMERIC SIGN 8 N58;N1;0;L;;;;8;N;;;;;
 126CB;PROTO-CUNEIFORM NUMERIC SIGN 9 N1;N1;0;L;;;;9;N;;;;;
 126CC;PROTO-CUNEIFORM NUMERIC SIGN 9 N1 VARIANT 1;N1;0;L;;;;9;N;;;;;
 126CD;PROTO-CUNEIFORM NUMERIC SIGN 9 N1 FLAT;N1;0;L;;;;9;N;;;;;
 126CE;PROTO-CUNEIFORM NUMERIC SIGN 9 N2;N1;0;L;;;;9;N;;;;;
 126CF;PROTO-CUNEIFORM NUMERIC SIGN 9 N8;N1;0;L;;;;9;N;;;;;
 126D0;PROTO-CUNEIFORM NUMERIC SIGN 9 N14;N1;0;L;;;;9;N;;;;;
 126D1;PROTO-CUNEIFORM NUMERIC SIGN 9 N14 FLAT;N1;0;L;;;;9;N;;;;;
 126D2;PROTO-CUNEIFORM NUMERIC SIGN 9 N18;N1;0;L;;;;9;N;;;;;
 126D3;PROTO-CUNEIFORM NUMERIC SIGN 9 N18 VARIANT 1;N1;0;L;;;;9;N;;;;;
 126D4;PROTO-CUNEIFORM NUMERIC SIGN 9 N19;N1;0;L;;;;9;N;;;;;
 126D5;PROTO-CUNEIFORM NUMERIC SIGN 9 N19 VARIANT 1;N1;0;L;;;;9;N;;;;;
 126D6;PROTO-CUNEIFORM NUMERIC SIGN 9 N19 FLAT;N1;0;L;;;;9;N;;;;;
 126D7;PROTO-CUNEIFORM NUMERIC SIGN 9 N20;N1;0;L;;;;9;N;;;;;
 126D8;PROTO-CUNEIFORM NUMERIC SIGN 9 N34;N1;0;L;;;;9;N;;;;;

107

108

1273D;PROTO-CUNEIFORM SIGN BAPPIR-C;Lo;0;L;;;;;N;;;;;
 1273E;PROTO-CUNEIFORM SIGN BAPPIR-D;Lo;0;L;;;;;N;;;;;
 1273F;PROTO-CUNEIFORM SIGN BAPPIR-E;Lo;0;L;;;;;N;;;;;
 12740;PROTO-CUNEIFORM SIGN BAPPIR-F;Lo;0;L;;;;;N;;;;;
 12741;PROTO-CUNEIFORM SIGN BAR;Lo;0;L;;;;;N;;;;;
 12742;PROTO-CUNEIFORM SIGN BARA3;Lo;0;L;;;;;N;;;;;
 12743;PROTO-CUNEIFORM SIGN BARA2-A;Lo;0;L;;;;;N;;;;;
 12744;PROTO-CUNEIFORM SIGN BARA2-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12745;PROTO-CUNEIFORM SIGN BARA2-B;Lo;0;L;;;;;N;;;;;
 12746;PROTO-CUNEIFORM SIGN BARA2-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12747;PROTO-CUNEIFORM SIGN BIR-A;Lo;0;L;;;;;N;;;;;
 12748;PROTO-CUNEIFORM SIGN BIR-B;Lo;0;L;;;;;N;;;;;
 12749;PROTO-CUNEIFORM SIGN BIR-C;Lo;0;L;;;;;N;;;;;
 1274A;PROTO-CUNEIFORM SIGN BIR3-A;Lo;0;L;;;;;N;;;;;
 1274B;PROTO-CUNEIFORM SIGN BIR3-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 1274C;PROTO-CUNEIFORM SIGN BIR3-B;Lo;0;L;;;;;N;;;;;
 1274D;PROTO-CUNEIFORM SIGN BIR3-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 1274E;PROTO-CUNEIFORM SIGN BIR3-C;Lo;0;L;;;;;N;;;;;
 1274F;PROTO-CUNEIFORM SIGN BU-A;Lo;0;L;;;;;N;;;;;
 12750;PROTO-CUNEIFORM SIGN BU-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12751;PROTO-CUNEIFORM SIGN BU-B;Lo;0;L;;;;;N;;;;;
 12752;PROTO-CUNEIFORM SIGN BU3;Lo;0;L;;;;;N;;;;;
 12753;PROTO-CUNEIFORM SIGN BULUG;Lo;0;L;;;;;N;;;;;
 12754;PROTO-CUNEIFORM SIGN BULUG3;Lo;0;L;;;;;N;;;;;
 12755;PROTO-CUNEIFORM SIGN BUR-A;Lo;0;L;;;;;N;;;;;
 12756;PROTO-CUNEIFORM SIGN BUR-B;Lo;0;L;;;;;N;;;;;
 12757;PROTO-CUNEIFORM SIGN BUR-C;Lo;0;L;;;;;N;;;;;
 12758;PROTO-CUNEIFORM SIGN BUR-D;Lo;0;L;;;;;N;;;;;
 12759;PROTO-CUNEIFORM SIGN BUR2;Lo;0;L;;;;;N;;;;;
 1275A;PROTO-CUNEIFORM SIGN DA-A;Lo;0;L;;;;;N;;;;;
 1275B;PROTO-CUNEIFORM SIGN DA-B;Lo;0;L;;;;;N;;;;;
 1275C;PROTO-CUNEIFORM SIGN DA-C;Lo;0;L;;;;;N;;;;;
 1275D;PROTO-CUNEIFORM SIGN DA-D;Lo;0;L;;;;;N;;;;;
 1275E;PROTO-CUNEIFORM SIGN DAG;Lo;0;L;;;;;N;;;;;
 1275F;PROTO-CUNEIFORM SIGN DAH;Lo;0;L;;;;;N;;;;;
 12760;PROTO-CUNEIFORM SIGN DAM;Lo;0;L;;;;;N;;;;;
 12761;PROTO-CUNEIFORM SIGN DANNA;Lo;0;L;;;;;N;;;;;
 12762;PROTO-CUNEIFORM SIGN DAR-A;Lo;0;L;;;;;N;;;;;
 12763;PROTO-CUNEIFORM SIGN DAR-B;Lo;0;L;;;;;N;;;;;
 12764;PROTO-CUNEIFORM SIGN DAR-C;Lo;0;L;;;;;N;;;;;
 12765;PROTO-CUNEIFORM SIGN DAR-D;Lo;0;L;;;;;N;;;;;
 12766;PROTO-CUNEIFORM SIGN DARA3-A;Lo;0;L;;;;;N;;;;;
 12767;PROTO-CUNEIFORM SIGN DARA3-B;Lo;0;L;;;;;N;;;;;
 12768;PROTO-CUNEIFORM SIGN DARA3-C;Lo;0;L;;;;;N;;;;;
 12769;PROTO-CUNEIFORM SIGN DARA3-C VARIANT 1;Lo;0;L;;;;;N;;;;;
 1276A;PROTO-CUNEIFORM SIGN DARA3-D;Lo;0;L;;;;;N;;;;;
 1276B;PROTO-CUNEIFORM SIGN DARA4-A1;Lo;0;L;;;;;N;;;;;
 1276C;PROTO-CUNEIFORM SIGN DARA4-A2;Lo;0;L;;;;;N;;;;;
 1276D;PROTO-CUNEIFORM SIGN DARA4-A3;Lo;0;L;;;;;N;;;;;
 1276E;PROTO-CUNEIFORM SIGN DARA4-B;Lo;0;L;;;;;N;;;;;

1276F;PROTO-CUNEIFORM SIGN DARA4-C1;Lo;0;L;;;;;N;;;;;
 12770;PROTO-CUNEIFORM SIGN DARA4-C2;Lo;0;L;;;;;N;;;;;
 12771;PROTO-CUNEIFORM SIGN DARA4-C3;Lo;0;L;;;;;N;;;;;
 12772;PROTO-CUNEIFORM SIGN DARA4-C4;Lo;0;L;;;;;N;;;;;
 12773;PROTO-CUNEIFORM SIGN DARA4-C5;Lo;0;L;;;;;N;;;;;
 12774;PROTO-CUNEIFORM SIGN DI;Lo;0;L;;;;;N;;;;;
 12775;PROTO-CUNEIFORM SIGN DI TENU;Lo;0;L;;;;;N;;;;;
 12776;PROTO-CUNEIFORM SIGN DIB;Lo;0;L;;;;;N;;;;;
 12777;PROTO-CUNEIFORM SIGN DIB VARIANT 1;Lo;0;L;;;;;N;;;;;
 12778;PROTO-CUNEIFORM SIGN DILMUN;Lo;0;L;;;;;N;;;;;
 12779;PROTO-CUNEIFORM SIGN DILMUN VARIANT 1;Lo;0;L;;;;;N;;;;;
 1277A;PROTO-CUNEIFORM SIGN DILMUN VARIANT 2;Lo;0;L;;;;;N;;;;;
 1277B;PROTO-CUNEIFORM SIGN DIM-A;Lo;0;L;;;;;N;;;;;
 1277C;PROTO-CUNEIFORM SIGN DIM-B;Lo;0;L;;;;;N;;;;;
 1277D;PROTO-CUNEIFORM SIGN DIM-C;Lo;0;L;;;;;N;;;;;
 1277E;PROTO-CUNEIFORM SIGN DIN;Lo;0;L;;;;;N;;;;;
 1277F;PROTO-CUNEIFORM SIGN DIN TENU;Lo;0;L;;;;;N;;;;;
 12780;PROTO-CUNEIFORM SIGN DU;Lo;0;L;;;;;N;;;;;
 12781;PROTO-CUNEIFORM SIGN DU GUNU;Lo;0;L;;;;;N;;;;;
 12782;PROTO-CUNEIFORM SIGN DU7;Lo;0;L;;;;;N;;;;;
 12783;PROTO-CUNEIFORM SIGN DU6-A;Lo;0;L;;;;;N;;;;;
 12784;PROTO-CUNEIFORM SIGN DU6-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12785;PROTO-CUNEIFORM SIGN DU6-B;Lo;0;L;;;;;N;;;;;
 12786;PROTO-CUNEIFORM SIGN DU6-C;Lo;0;L;;;;;N;;;;;
 12787;PROTO-CUNEIFORM SIGN DU8-A;Lo;0;L;;;;;N;;;;;
 12788;PROTO-CUNEIFORM SIGN DU8-B;Lo;0;L;;;;;N;;;;;
 12789;PROTO-CUNEIFORM SIGN DU8-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 1278A;PROTO-CUNEIFORM SIGN DU8-C;Lo;0;L;;;;;N;;;;;
 1278B;PROTO-CUNEIFORM SIGN DU8-C GUNU;Lo;0;L;;;;;N;;;;;
 1278C;PROTO-CUNEIFORM SIGN DU8-C GUNU VARIANT 1;Lo;0;L;;;;;N;;;;;
 1278D;PROTO-CUNEIFORM SIGN DUB-A;Lo;0;L;;;;;N;;;;;
 1278E;PROTO-CUNEIFORM SIGN DUB-B;Lo;0;L;;;;;N;;;;;
 1278F;PROTO-CUNEIFORM SIGN DUB-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12790;PROTO-CUNEIFORM SIGN DUB-B VARIANT 2;Lo;0;L;;;;;N;;;;;
 12791;PROTO-CUNEIFORM SIGN DUB-B VARIANT 3;Lo;0;L;;;;;N;;;;;
 12792;PROTO-CUNEIFORM SIGN DUB-B VARIANT 4;Lo;0;L;;;;;N;;;;;
 12793;PROTO-CUNEIFORM SIGN DUB-C;Lo;0;L;;;;;N;;;;;
 12794;PROTO-CUNEIFORM SIGN DUB-D;Lo;0;L;;;;;N;;;;;
 12795;PROTO-CUNEIFORM SIGN DUB-E;Lo;0;L;;;;;N;;;;;
 12796;PROTO-CUNEIFORM SIGN DUB-F;Lo;0;L;;;;;N;;;;;
 12797;PROTO-CUNEIFORM SIGN DUB2;Lo;0;L;;;;;N;;;;;
 12798;PROTO-CUNEIFORM SIGN DUG-A;Lo;0;L;;;;;N;;;;;
 12799;PROTO-CUNEIFORM SIGN DUG-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 1279A;PROTO-CUNEIFORM SIGN DUG-A VARIANT 2;Lo;0;L;;;;;N;;;;;
 1279B;PROTO-CUNEIFORM SIGN DUG-B;Lo;0;L;;;;;N;;;;;
 1279C;PROTO-CUNEIFORM SIGN DUG-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 1279D;PROTO-CUNEIFORM SIGN DUG-C;Lo;0;L;;;;;N;;;;;
 1279E;PROTO-CUNEIFORM SIGN DUG-C VARIANT 1;Lo;0;L;;;;;N;;;;;
 1279F;PROTO-CUNEIFORM SIGN DUG-C TENU;Lo;0;L;;;;;N;;;;;
 127A0;PROTO-CUNEIFORM SIGN DUG-D;Lo;0;L;;;;;N;;;;;

127A1;PROTO-CUNEIFORM SIGN DUGUD;Lo;0;L;;;;;N;;;;;
 127A2;PROTO-CUNEIFORM SIGN DUR-A;Lo;0;L;;;;;N;;;;;
 127A3;PROTO-CUNEIFORM SIGN DUR-B;Lo;0;L;;;;;N;;;;;
 127A4;PROTO-CUNEIFORM SIGN DUR2;Lo;0;L;;;;;N;;;;;
 127A5;PROTO-CUNEIFORM SIGN E-A;Lo;0;L;;;;;N;;;;;
 127A6;PROTO-CUNEIFORM SIGN E-B;Lo;0;L;;;;;N;;;;;
 127A7;PROTO-CUNEIFORM SIGN E-C;Lo;0;L;;;;;N;;;;;
 127A8;PROTO-CUNEIFORM SIGN E-D;Lo;0;L;;;;;N;;;;;
 127A9;PROTO-CUNEIFORM SIGN E-E;Lo;0;L;;;;;N;;;;;
 127AA;PROTO-CUNEIFORM SIGN E2-A;Lo;0;L;;;;;N;;;;;
 127AB;PROTO-CUNEIFORM SIGN E2-B;Lo;0;L;;;;;N;;;;;
 127AC;PROTO-CUNEIFORM SIGN E2-C;Lo;0;L;;;;;N;;;;;
 127AD;PROTO-CUNEIFORM SIGN E2-D;Lo;0;L;;;;;N;;;;;
 127AE;PROTO-CUNEIFORM SIGN E3-A;Lo;0;L;;;;;N;;;;;
 127AF;PROTO-CUNEIFORM SIGN E3-B;Lo;0;L;;;;;N;;;;;
 127B0;PROTO-CUNEIFORM SIGN EDIN;Lo;0;L;;;;;N;;;;;
 127B1;PROTO-CUNEIFORM SIGN EN GUNU-A;Lo;0;L;;;;;N;;;;;
 127B2;PROTO-CUNEIFORM SIGN EN GUNU-B;Lo;0;L;;;;;N;;;;;
 127B3;PROTO-CUNEIFORM SIGN EN-A;Lo;0;L;;;;;N;;;;;
 127B4;PROTO-CUNEIFORM SIGN EN-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 127B5;PROTO-CUNEIFORM SIGN EN-A VARIANT 2;Lo;0;L;;;;;N;;;;;
 127B6;PROTO-CUNEIFORM SIGN EN-A VARIANT 3;Lo;0;L;;;;;N;;;;;
 127B7;PROTO-CUNEIFORM SIGN EN-B;Lo;0;L;;;;;N;;;;;
 127B8;PROTO-CUNEIFORM SIGN EN-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 127B9;PROTO-CUNEIFORM SIGN EN-B TENU;Lo;0;L;;;;;N;;;;;
 127BA;PROTO-CUNEIFORM SIGN EN-C;Lo;0;L;;;;;N;;;;;
 127BB;PROTO-CUNEIFORM SIGN EN-C VARIANT 1;Lo;0;L;;;;;N;;;;;
 127BC;PROTO-CUNEIFORM SIGN EN-E;Lo;0;L;;;;;N;;;;;
 127BD;PROTO-CUNEIFORM SIGN EN2;Lo;0;L;;;;;N;;;;;
 127BE;PROTO-CUNEIFORM SIGN ENDIB;Lo;0;L;;;;;N;;;;;
 127BF;PROTO-CUNEIFORM SIGN ENGIZ;Lo;0;L;;;;;N;;;;;
 127C0;PROTO-CUNEIFORM SIGN ENKUM;Lo;0;L;;;;;N;;;;;
 127C1;PROTO-CUNEIFORM SIGN ENKUM VARIANT 1;Lo;0;L;;;;;N;;;;;
 127C2;PROTO-CUNEIFORM SIGN ENLIL;Lo;0;L;;;;;N;;;;;
 127C3;PROTO-CUNEIFORM SIGN ENSI;Lo;0;L;;;;;N;;;;;
 127C4;PROTO-CUNEIFORM SIGN ENSI2;Lo;0;L;;;;;N;;;;;
 127C5;PROTO-CUNEIFORM SIGN ERIM-A;Lo;0;L;;;;;N;;;;;
 127C6;PROTO-CUNEIFORM SIGN ERIM-B1;Lo;0;L;;;;;N;;;;;
 127C7;PROTO-CUNEIFORM SIGN ERIM-B2;Lo;0;L;;;;;N;;;;;
 127C8;PROTO-CUNEIFORM SIGN ERIM2;Lo;0;L;;;;;N;;;;;
 127C9;PROTO-CUNEIFORM SIGN ERIN;Lo;0;L;;;;;N;;;;;
 127CA;PROTO-CUNEIFORM SIGN ESZDA;Lo;0;L;;;;;N;;;;;
 127CB;PROTO-CUNEIFORM SIGN ESZGAR;Lo;0;L;;;;;N;;;;;
 127CC;PROTO-CUNEIFORM SIGN EZEN-A;Lo;0;L;;;;;N;;;;;
 127CD;PROTO-CUNEIFORM SIGN EZEN-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 127CE;PROTO-CUNEIFORM SIGN EZEN-B;Lo;0;L;;;;;N;;;;;
 127CF;PROTO-CUNEIFORM SIGN EZEN-B TENU;Lo;0;L;;;;;N;;;;;
 127D0;PROTO-CUNEIFORM SIGN EZEN-C;Lo;0;L;;;;;N;;;;;
 127D1;PROTO-CUNEIFORM SIGN EZINU-A;Lo;0;L;;;;;N;;;;;
 127D2;PROTO-CUNEIFORM SIGN EZINU-B;Lo;0;L;;;;;N;;;;;

127D3;PROTO-CUNEIFORM SIGN EZINU-C;Lo;0;L;;;;;N;;;;;
 127D4;PROTO-CUNEIFORM SIGN EZINU-D;Lo;0;L;;;;;N;;;;;
 127D5;PROTO-CUNEIFORM SIGN GA-A;Lo;0;L;;;;;N;;;;;
 127D6;PROTO-CUNEIFORM SIGN GA-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 127D7;PROTO-CUNEIFORM SIGN GA-A VARIANT 2;Lo;0;L;;;;;N;;;;;
 127D8;PROTO-CUNEIFORM SIGN GA-A VARIANT 3;Lo;0;L;;;;;N;;;;;
 127D9;PROTO-CUNEIFORM SIGN GA-A VARIANT 4;Lo;0;L;;;;;N;;;;;
 127DA;PROTO-CUNEIFORM SIGN GA-B;Lo;0;L;;;;;N;;;;;
 127DB;PROTO-CUNEIFORM SIGN GA-C;Lo;0;L;;;;;N;;;;;
 127DC;PROTO-CUNEIFORM SIGN GA2-A1;Lo;0;L;;;;;N;;;;;
 127DD;PROTO-CUNEIFORM SIGN GA2-A2;Lo;0;L;;;;;N;;;;;
 127DE;PROTO-CUNEIFORM SIGN GA2-A3;Lo;0;L;;;;;N;;;;;
 127DF;PROTO-CUNEIFORM SIGN GA2-A4;Lo;0;L;;;;;N;;;;;
 127E0;PROTO-CUNEIFORM SIGN GA2-B;Lo;0;L;;;;;N;;;;;
 127E1;PROTO-CUNEIFORM SIGN GA2-C;Lo;0;L;;;;;N;;;;;
 127E2;PROTO-CUNEIFORM SIGN GA'AR-A1;Lo;0;L;;;;;N;;;;;
 127E3;PROTO-CUNEIFORM SIGN GA'AR-A2;Lo;0;L;;;;;N;;;;;
 127E4;PROTO-CUNEIFORM SIGN GA'AR-B1;Lo;0;L;;;;;N;;;;;
 127E5;PROTO-CUNEIFORM SIGN GA'AR-B2;Lo;0;L;;;;;N;;;;;
 127E6;PROTO-CUNEIFORM SIGN GADA-A;Lo;0;L;;;;;N;;;;;
 127E7;PROTO-CUNEIFORM SIGN GADA-B;Lo;0;L;;;;;N;;;;;
 127E8;PROTO-CUNEIFORM SIGN GADA-B GUNU;Lo;0;L;;;;;N;;;;;
 127E9;PROTO-CUNEIFORM SIGN GAL-A;Lo;0;L;;;;;N;;;;;
 127EA;PROTO-CUNEIFORM SIGN GAL-B;Lo;0;L;;;;;N;;;;;
 127EB;PROTO-CUNEIFORM SIGN GALGA-A;Lo;0;L;;;;;N;;;;;
 127EC;PROTO-CUNEIFORM SIGN GALGA-B;Lo;0;L;;;;;N;;;;;
 127ED;PROTO-CUNEIFORM SIGN GAN-A;Lo;0;L;;;;;N;;;;;
 127EE;PROTO-CUNEIFORM SIGN GAN-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 127EF;PROTO-CUNEIFORM SIGN GAN-B;Lo;0;L;;;;;N;;;;;
 127F0;PROTO-CUNEIFORM SIGN GAN-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 127F1;PROTO-CUNEIFORM SIGN GAN-B VARIANT 2;Lo;0;L;;;;;N;;;;;
 127F2;PROTO-CUNEIFORM SIGN GAN-B VARIANT 3;Lo;0;L;;;;;N;;;;;
 127F3;PROTO-CUNEIFORM SIGN GAN-C;Lo;0;L;;;;;N;;;;;
 127F4;PROTO-CUNEIFORM SIGN GAN-C VARIANT 1;Lo;0;L;;;;;N;;;;;
 127F5;PROTO-CUNEIFORM SIGN GAN-D;Lo;0;L;;;;;N;;;;;
 127F6;PROTO-CUNEIFORM SIGN GAN2;Lo;0;L;;;;;N;;;;;
 127F7;PROTO-CUNEIFORM SIGN GAR;Lo;0;L;;;;;N;;;;;
 127F8;PROTO-CUNEIFORM SIGN GAR GUNU-A;Lo;0;L;;;;;N;;;;;
 127F9;PROTO-CUNEIFORM SIGN GAR GUNU-B;Lo;0;L;;;;;N;;;;;
 127FA;PROTO-CUNEIFORM SIGN GAR GUNU-C;Lo;0;L;;;;;N;;;;;
 127FB;PROTO-CUNEIFORM SIGN GAR3;Lo;0;L;;;;;N;;;;;
 127FC;PROTO-CUNEIFORM SIGN GARA2-A;Lo;0;L;;;;;N;;;;;
 127FD;PROTO-CUNEIFORM SIGN GARA2-B;Lo;0;L;;;;;N;;;;;
 127FE;PROTO-CUNEIFORM SIGN GAZI;Lo;0;L;;;;;N;;;;;
 127FF;PROTO-CUNEIFORM SIGN GESZTIN-A;Lo;0;L;;;;;N;;;;;
 12800;PROTO-CUNEIFORM SIGN GESZTIN-C;Lo;0;L;;;;;N;;;;;
 12801;PROTO-CUNEIFORM SIGN GESZTU-A;Lo;0;L;;;;;N;;;;;
 12802;PROTO-CUNEIFORM SIGN GESZTU-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12803;PROTO-CUNEIFORM SIGN GESZTU-A VARIANT 2;Lo;0;L;;;;;N;;;;;
 12804;PROTO-CUNEIFORM SIGN GESZTU-B;Lo;0;L;;;;;N;;;;;

12805;PROTO-CUNEIFORM SIGN GESZTU-C3;Lo;0;L;;;;;N;;;;;
 12806;PROTO-CUNEIFORM SIGN GESZTU-C3 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12807;PROTO-CUNEIFORM SIGN GESZTU-C5;Lo;0;L;;;;;N;;;;;
 12808;PROTO-CUNEIFORM SIGN GI;Lo;0;L;;;;;N;;;;;
 12809;PROTO-CUNEIFORM SIGN GI VARIANT 1;Lo;0;L;;;;;N;;;;;
 1280A;PROTO-CUNEIFORM SIGN GI TENU;Lo;0;L;;;;;N;;;;;
 1280B;PROTO-CUNEIFORM SIGN GI6;Lo;0;L;;;;;N;;;;;
 1280C;PROTO-CUNEIFORM SIGN GI6 VARIANT 1;Lo;0;L;;;;;N;;;;;
 1280D;PROTO-CUNEIFORM SIGN GI4-A;Lo;0;L;;;;;N;;;;;
 1280E;PROTO-CUNEIFORM SIGN GI4-B;Lo;0;L;;;;;N;;;;;
 1280F;PROTO-CUNEIFORM SIGN GIBIL;Lo;0;L;;;;;N;;;;;
 12810;PROTO-CUNEIFORM SIGN GIBIL TENU;Lo;0;L;;;;;N;;;;;
 12811;PROTO-CUNEIFORM SIGN GIBIL6;Lo;0;L;;;;;N;;;;;
 12812;PROTO-CUNEIFORM SIGN GIG;Lo;0;L;;;;;N;;;;;
 12813;PROTO-CUNEIFORM SIGN GIL;Lo;0;L;;;;;N;;;;;
 12814;PROTO-CUNEIFORM SIGN GIR-A;Lo;0;L;;;;;N;;;;;
 12815;PROTO-CUNEIFORM SIGN GIR-B;Lo;0;L;;;;;N;;;;;
 12816;PROTO-CUNEIFORM SIGN GIR-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12817;PROTO-CUNEIFORM SIGN GIR-C;Lo;0;L;;;;;N;;;;;
 12818;PROTO-CUNEIFORM SIGN GIR-D;Lo;0;L;;;;;N;;;;;
 12819;PROTO-CUNEIFORM SIGN GIR3 GUNU-A;Lo;0;L;;;;;N;;;;;
 1281A;PROTO-CUNEIFORM SIGN GIR3 GUNU-B;Lo;0;L;;;;;N;;;;;
 1281B;PROTO-CUNEIFORM SIGN GIR3 GUNU-C;Lo;0;L;;;;;N;;;;;
 1281C;PROTO-CUNEIFORM SIGN GIR4;Lo;0;L;;;;;N;;;;;
 1281D;PROTO-CUNEIFORM SIGN GIR2-A;Lo;0;L;;;;;N;;;;;
 1281E;PROTO-CUNEIFORM SIGN GIR2-B;Lo;0;L;;;;;N;;;;;
 1281F;PROTO-CUNEIFORM SIGN GIR3-A;Lo;0;L;;;;;N;;;;;
 12820;PROTO-CUNEIFORM SIGN GIR3-B;Lo;0;L;;;;;N;;;;;
 12821;PROTO-CUNEIFORM SIGN GIR3-C;Lo;0;L;;;;;N;;;;;
 12822;PROTO-CUNEIFORM SIGN GISAL-A;Lo;0;L;;;;;N;;;;;
 12823;PROTO-CUNEIFORM SIGN GISAL-B;Lo;0;L;;;;;N;;;;;
 12824;PROTO-CUNEIFORM SIGN GISZ;Lo;0;L;;;;;N;;;;;
 12825;PROTO-CUNEIFORM SIGN GISZ TENU;Lo;0;L;;;;;N;;;;;
 12826;PROTO-CUNEIFORM SIGN GISZ-X;Lo;0;L;;;;;N;;;;;
 12827;PROTO-CUNEIFORM SIGN GISZ3-A;Lo;0;L;;;;;N;;;;;
 12828;PROTO-CUNEIFORM SIGN GISZ3-B;Lo;0;L;;;;;N;;;;;
 12829;PROTO-CUNEIFORM SIGN GISZGAL;Lo;0;L;;;;;N;;;;;
 1282A;PROTO-CUNEIFORM SIGN GISZGAL VARIANT 1;Lo;0;L;;;;;N;;;;;
 1282B;PROTO-CUNEIFORM SIGN GISZIMMAR-A1;Lo;0;L;;;;;N;;;;;
 1282C;PROTO-CUNEIFORM SIGN GISZIMMAR-A2;Lo;0;L;;;;;N;;;;;
 1282D;PROTO-CUNEIFORM SIGN GISZIMMAR-A3;Lo;0;L;;;;;N;;;;;
 1282E;PROTO-CUNEIFORM SIGN GISZIMMAR-B1;Lo;0;L;;;;;N;;;;;
 1282F;PROTO-CUNEIFORM SIGN GISZIMMAR-B1 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12830;PROTO-CUNEIFORM SIGN GISZIMMAR-B1 VARIANT 2;Lo;0;L;;;;;N;;;;;
 12831;PROTO-CUNEIFORM SIGN GISZIMMAR-B3;Lo;0;L;;;;;N;;;;;
 12832;PROTO-CUNEIFORM SIGN GIZZAL-X;Lo;0;L;;;;;N;;;;;
 12833;PROTO-CUNEIFORM SIGN GU;Lo;0;L;;;;;N;;;;;
 12834;PROTO-CUNEIFORM SIGN GU2;Lo;0;L;;;;;N;;;;;
 12835;PROTO-CUNEIFORM SIGN GU4;Lo;0;L;;;;;N;;;;;
 12836;PROTO-CUNEIFORM SIGN GU4 VARIANT 1;Lo;0;L;;;;;N;;;;;

12837;PROTO-CUNEIFORM SIGN GU4 GUNU;Lo;0;L;;;;;N;;;;;
 12838;PROTO-CUNEIFORM SIGN GU7;Lo;0;L;;;;;N;;;;;
 12839;PROTO-CUNEIFORM SIGN GU7 VARIANT 1;Lo;0;L;;;;;N;;;;;
 1283A;PROTO-CUNEIFORM SIGN GUB3-A;Lo;0;L;;;;;N;;;;;
 1283B;PROTO-CUNEIFORM SIGN GUB3-B;Lo;0;L;;;;;N;;;;;
 1283C;PROTO-CUNEIFORM SIGN GUB3-C;Lo;0;L;;;;;N;;;;;
 1283D;PROTO-CUNEIFORM SIGN GUB3-D;Lo;0;L;;;;;N;;;;;
 1283E;PROTO-CUNEIFORM SIGN GUG2;Lo;0;L;;;;;N;;;;;
 1283F;PROTO-CUNEIFORM SIGN GUG2 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12840;PROTO-CUNEIFORM SIGN GUG2 TENU;Lo;0;L;;;;;N;;;;;
 12841;PROTO-CUNEIFORM SIGN GUKKAL-A;Lo;0;L;;;;;N;;;;;
 12842;PROTO-CUNEIFORM SIGN GUKKAL-B;Lo;0;L;;;;;N;;;;;
 12843;PROTO-CUNEIFORM SIGN GUKKAL-C;Lo;0;L;;;;;N;;;;;
 12844;PROTO-CUNEIFORM SIGN GUKKAL-D;Lo;0;L;;;;;N;;;;;
 12845;PROTO-CUNEIFORM SIGN GUL;Lo;0;L;;;;;N;;;;;
 12846;PROTO-CUNEIFORM SIGN GUM-A;Lo;0;L;;;;;N;;;;;
 12847;PROTO-CUNEIFORM SIGN GUM-B;Lo;0;L;;;;;N;;;;;
 12848;PROTO-CUNEIFORM SIGN GUM-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12849;PROTO-CUNEIFORM SIGN GUM-B NUTILLU;Lo;0;L;;;;;N;;;;;
 1284A;PROTO-CUNEIFORM SIGN GUM-B NUTILLU VARIANT 1;Lo;0;L;;;;;N;;;;;
 1284B;PROTO-CUNEIFORM SIGN GUN3-A;Lo;0;L;;;;;N;;;;;
 1284C;PROTO-CUNEIFORM SIGN GUN3-B;Lo;0;L;;;;;N;;;;;
 1284D;PROTO-CUNEIFORM SIGN GUR;Lo;0;L;;;;;N;;;;;
 1284E;PROTO-CUNEIFORM SIGN GURUSZ-A;Lo;0;L;;;;;N;;;;;
 1284F;PROTO-CUNEIFORM SIGN GURUSZ-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12850;PROTO-CUNEIFORM SIGN GURUSZ-B;Lo;0;L;;;;;N;;;;;
 12851;PROTO-CUNEIFORM SIGN GURUSZDA;Lo;0;L;;;;;N;;;;;
 12852;PROTO-CUNEIFORM SIGN HAL;Lo;0;L;;;;;N;;;;;
 12853;PROTO-CUNEIFORM SIGN HALUB;Lo;0;L;;;;;N;;;;;
 12854;PROTO-CUNEIFORM SIGN HASZHUR;Lo;0;L;;;;;N;;;;;
 12855;PROTO-CUNEIFORM SIGN HI;Lo;0;L;;;;;N;;;;;
 12856;PROTO-CUNEIFORM SIGN HI GUNU-A;Lo;0;L;;;;;N;;;;;
 12857;PROTO-CUNEIFORM SIGN HI GUNU-B;Lo;0;L;;;;;N;;;;;
 12858;PROTO-CUNEIFORM SIGN HI GUNU-C;Lo;0;L;;;;;N;;;;;
 12859;PROTO-CUNEIFORM SIGN HUB2;Lo;0;L;;;;;N;;;;;
 1285A;PROTO-CUNEIFORM SIGN I;Lo;0;L;;;;;N;;;;;
 1285B;PROTO-CUNEIFORM SIGN IB-A;Lo;0;L;;;;;N;;;;;
 1285C;PROTO-CUNEIFORM SIGN IB-A NUTILLU;Lo;0;L;;;;;N;;;;;
 1285D;PROTO-CUNEIFORM SIGN IB-B;Lo;0;L;;;;;N;;;;;
 1285E;PROTO-CUNEIFORM SIGN IDIGNA;Lo;0;L;;;;;N;;;;;
 1285F;PROTO-CUNEIFORM SIGN IDIGNA VARIANT 1;Lo;0;L;;;;;N;;;;;
 12860;PROTO-CUNEIFORM SIGN IG-A;Lo;0;L;;;;;N;;;;;
 12861;PROTO-CUNEIFORM SIGN IG-B;Lo;0;L;;;;;N;;;;;
 12862;PROTO-CUNEIFORM SIGN IGI;Lo;0;L;;;;;N;;;;;
 12863;PROTO-CUNEIFORM SIGN IL;Lo;0;L;;;;;N;;;;;
 12864;PROTO-CUNEIFORM SIGN ILDUM-A;Lo;0;L;;;;;N;;;;;
 12865;PROTO-CUNEIFORM SIGN ILDUM-B;Lo;0;L;;;;;N;;;;;
 12866;PROTO-CUNEIFORM SIGN IM-A;Lo;0;L;;;;;N;;;;;
 12867;PROTO-CUNEIFORM SIGN IM-A GUNU;Lo;0;L;;;;;N;;;;;
 12868;PROTO-CUNEIFORM SIGN IM-B;Lo;0;L;;;;;N;;;;;

12869;PROTO-CUNEIFORM SIGN IN-B;Lo;0;L;;;;;N;;;;;
 1286A;PROTO-CUNEIFORM SIGN IN-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 1286B;PROTO-CUNEIFORM SIGN IN-D;Lo;0;L;;;;;N;;;;;
 1286C;PROTO-CUNEIFORM SIGN IR-A;Lo;0;L;;;;;N;;;;;
 1286D;PROTO-CUNEIFORM SIGN IR-B;Lo;0;L;;;;;N;;;;;
 1286E;PROTO-CUNEIFORM SIGN IR-C;Lo;0;L;;;;;N;;;;;
 1286F;PROTO-CUNEIFORM SIGN IR-D;Lo;0;L;;;;;N;;;;;
 12870;PROTO-CUNEIFORM SIGN IR11;Lo;0;L;;;;;N;;;;;
 12871;PROTO-CUNEIFORM SIGN IR11 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12872;PROTO-CUNEIFORM SIGN IRHAN;Lo;0;L;;;;;N;;;;;
 12873;PROTO-CUNEIFORM SIGN ISZ-A;Lo;0;L;;;;;N;;;;;
 12874;PROTO-CUNEIFORM SIGN ISZ-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12875;PROTO-CUNEIFORM SIGN ISZ-B;Lo;0;L;;;;;N;;;;;
 12876;PROTO-CUNEIFORM SIGN ISZ-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12877;PROTO-CUNEIFORM SIGN ISZ-B VARIANT 2;Lo;0;L;;;;;N;;;;;
 12878;PROTO-CUNEIFORM SIGN ISZ-B VARIANT 3;Lo;0;L;;;;;N;;;;;
 12879;PROTO-CUNEIFORM SIGN ISZ-B VARIANT 4;Lo;0;L;;;;;N;;;;;
 1287A;PROTO-CUNEIFORM SIGN ISZ-B VARIANT 5;Lo;0;L;;;;;N;;;;;
 1287B;PROTO-CUNEIFORM SIGN ISZ-C;Lo;0;L;;;;;N;;;;;
 1287C;PROTO-CUNEIFORM SIGN KA-A;Lo;0;L;;;;;N;;;;;
 1287D;PROTO-CUNEIFORM SIGN KA2-A;Lo;0;L;;;;;N;;;;;
 1287E;PROTO-CUNEIFORM SIGN KA2-B;Lo;0;L;;;;;N;;;;;
 1287F;PROTO-CUNEIFORM SIGN KA2-C;Lo;0;L;;;;;N;;;;;
 12880;PROTO-CUNEIFORM SIGN KA2-D;Lo;0;L;;;;;N;;;;;
 12881;PROTO-CUNEIFORM SIGN KAB;Lo;0;L;;;;;N;;;;;
 12882;PROTO-CUNEIFORM SIGN KAD4-A;Lo;0;L;;;;;N;;;;;
 12883;PROTO-CUNEIFORM SIGN KAD4-B;Lo;0;L;;;;;N;;;;;
 12884;PROTO-CUNEIFORM SIGN KAD4-C1;Lo;0;L;;;;;N;;;;;
 12885;PROTO-CUNEIFORM SIGN KAD4-C2;Lo;0;L;;;;;N;;;;;
 12886;PROTO-CUNEIFORM SIGN KAK-A;Lo;0;L;;;;;N;;;;;
 12887;PROTO-CUNEIFORM SIGN KAK-B;Lo;0;L;;;;;N;;;;;
 12888;PROTO-CUNEIFORM SIGN KAL-A;Lo;0;L;;;;;N;;;;;
 12889;PROTO-CUNEIFORM SIGN KAL-B1;Lo;0;L;;;;;N;;;;;
 1288A;PROTO-CUNEIFORM SIGN KAL-B1 VARIANT 1;Lo;0;L;;;;;N;;;;;
 1288B;PROTO-CUNEIFORM SIGN KAL-B2;Lo;0;L;;;;;N;;;;;
 1288C;PROTO-CUNEIFORM SIGN KALAM-A;Lo;0;L;;;;;N;;;;;
 1288D;PROTO-CUNEIFORM SIGN KALAM-B;Lo;0;L;;;;;N;;;;;
 1288E;PROTO-CUNEIFORM SIGN KALAM-C;Lo;0;L;;;;;N;;;;;
 1288F;PROTO-CUNEIFORM SIGN KALAM-D;Lo;0;L;;;;;N;;;;;
 12890;PROTO-CUNEIFORM SIGN KALAM-E;Lo;0;L;;;;;N;;;;;
 12891;PROTO-CUNEIFORM SIGN KALAM-F;Lo;0;L;;;;;N;;;;;
 12892;PROTO-CUNEIFORM SIGN KAR;Lo;0;L;;;;;N;;;;;
 12893;PROTO-CUNEIFORM SIGN KAR2-A;Lo;0;L;;;;;N;;;;;
 12894;PROTO-CUNEIFORM SIGN KAR2-B;Lo;0;L;;;;;N;;;;;
 12895;PROTO-CUNEIFORM SIGN KASKAL;Lo;0;L;;;;;N;;;;;
 12896;PROTO-CUNEIFORM SIGN KASKAL GUNU;Lo;0;L;;;;;N;;;;;
 12897;PROTO-CUNEIFORM SIGN KASZ-A;Lo;0;L;;;;;N;;;;;
 12898;PROTO-CUNEIFORM SIGN KASZ-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12899;PROTO-CUNEIFORM SIGN KASZ-B;Lo;0;L;;;;;N;;;;;
 1289A;PROTO-CUNEIFORM SIGN KASZ-B VARIANT 1;Lo;0;L;;;;;N;;;;;

1289B;PROTO-CUNEIFORM SIGN KASZ-B TENU;Lo;0;L;;;;;N;;;;;
 1289C;PROTO-CUNEIFORM SIGN KASZ-C;Lo;0;L;;;;;N;;;;;
 1289D;PROTO-CUNEIFORM SIGN KASZ-D;Lo;0;L;;;;;N;;;;;
 1289E;PROTO-CUNEIFORM SIGN KESZ2;Lo;0;L;;;;;N;;;;;
 1289F;PROTO-CUNEIFORM SIGN KI;Lo;0;L;;;;;N;;;;;
 128A0;PROTO-CUNEIFORM SIGN KI NUTILLU;Lo;0;L;;;;;N;;;;;
 128A1;PROTO-CUNEIFORM SIGN KIB;Lo;0;L;;;;;N;;;;;
 128A2;PROTO-CUNEIFORM SIGN KIB GUNU;Lo;0;L;;;;;N;;;;;
 128A3;PROTO-CUNEIFORM SIGN KID-A;Lo;0;L;;;;;N;;;;;
 128A4;PROTO-CUNEIFORM SIGN KID-B;Lo;0;L;;;;;N;;;;;
 128A5;PROTO-CUNEIFORM SIGN KID-C;Lo;0;L;;;;;N;;;;;
 128A6;PROTO-CUNEIFORM SIGN KID-D;Lo;0;L;;;;;N;;;;;
 128A7;PROTO-CUNEIFORM SIGN KID-E;Lo;0;L;;;;;N;;;;;
 128A8;PROTO-CUNEIFORM SIGN KIN;Lo;0;L;;;;;N;;;;;
 128A9;PROTO-CUNEIFORM SIGN KIN2-A;Lo;0;L;;;;;N;;;;;
 128AA;PROTO-CUNEIFORM SIGN KIN2-C;Lo;0;L;;;;;N;;;;;
 128AB;PROTO-CUNEIFORM SIGN KIN2-D;Lo;0;L;;;;;N;;;;;
 128AC;PROTO-CUNEIFORM SIGN KIN2-E;Lo;0;L;;;;;N;;;;;
 128AD;PROTO-CUNEIFORM SIGN KINGAL;Lo;0;L;;;;;N;;;;;
 128AE;PROTO-CUNEIFORM SIGN KINGAL VARIANT 1;Lo;0;L;;;;;N;;;;;
 128AF;PROTO-CUNEIFORM SIGN KIR11;Lo;0;L;;;;;N;;;;;
 128B0;PROTO-CUNEIFORM SIGN KISAL-A1;Lo;0;L;;;;;N;;;;;
 128B1;PROTO-CUNEIFORM SIGN KISAL-A2;Lo;0;L;;;;;N;;;;;
 128B2;PROTO-CUNEIFORM SIGN KISAL-B1;Lo;0;L;;;;;N;;;;;
 128B3;PROTO-CUNEIFORM SIGN KISAL-B2;Lo;0;L;;;;;N;;;;;
 128B4;PROTO-CUNEIFORM SIGN KISAL-B2 TENU;Lo;0;L;;;;;N;;;;;
 128B5;PROTO-CUNEIFORM SIGN KISAL-B3;Lo;0;L;;;;;N;;;;;
 128B6;PROTO-CUNEIFORM SIGN KISIM-A;Lo;0;L;;;;;N;;;;;
 128B7;PROTO-CUNEIFORM SIGN KISIM-B;Lo;0;L;;;;;N;;;;;
 128B8;PROTO-CUNEIFORM SIGN KISIM-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 128B9;PROTO-CUNEIFORM SIGN KISIM-B VARIANT 2;Lo;0;L;;;;;N;;;;;
 128BA;PROTO-CUNEIFORM SIGN KISIM-B VARIANT 3;Lo;0;L;;;;;N;;;;;
 128BB;PROTO-CUNEIFORM SIGN KISIM-C;Lo;0;L;;;;;N;;;;;
 128BC;PROTO-CUNEIFORM SIGN KISZ;Lo;0;L;;;;;N;;;;;
 128BD;PROTO-CUNEIFORM SIGN KISZ VARIANT 1;Lo;0;L;;;;;N;;;;;
 128BE;PROTO-CUNEIFORM SIGN KISZIK-A;Lo;0;L;;;;;N;;;;;
 128BF;PROTO-CUNEIFORM SIGN KISZIK-B;Lo;0;L;;;;;N;;;;;
 128C0;PROTO-CUNEIFORM SIGN KITI;Lo;0;L;;;;;N;;;;;
 128C1;PROTO-CUNEIFORM SIGN KITI VARIANT 1;Lo;0;L;;;;;N;;;;;
 128C2;PROTO-CUNEIFORM SIGN KU-A;Lo;0;L;;;;;N;;;;;
 128C3;PROTO-CUNEIFORM SIGN KU-A TENU;Lo;0;L;;;;;N;;;;;
 128C4;PROTO-CUNEIFORM SIGN KU-B1;Lo;0;L;;;;;N;;;;;
 128C5;PROTO-CUNEIFORM SIGN KU-B2;Lo;0;L;;;;;N;;;;;
 128C6;PROTO-CUNEIFORM SIGN KU3-A;Lo;0;L;;;;;N;;;;;
 128C7;PROTO-CUNEIFORM SIGN KU3-C;Lo;0;L;;;;;N;;;;;
 128C8;PROTO-CUNEIFORM SIGN KU6-A;Lo;0;L;;;;;N;;;;;
 128C9;PROTO-CUNEIFORM SIGN KU6-A SHESSHIG;Lo;0;L;;;;;N;;;;;
 128CA;PROTO-CUNEIFORM SIGN KU6-C;Lo;0;L;;;;;N;;;;;
 128CB;PROTO-CUNEIFORM SIGN KU6-D;Lo;0;L;;;;;N;;;;;
 128CC;PROTO-CUNEIFORM SIGN KUN;Lo;0;L;;;;;N;;;;;

128CD;PROTO-CUNEIFORM SIGN KUR GUNU-A;Lo;0;L;;;;N;;;;;
 128CE;PROTO-CUNEIFORM SIGN KUR GUNU-B;Lo;0;L;;;;N;;;;;
 128CF;PROTO-CUNEIFORM SIGN KUR-A;Lo;0;L;;;;N;;;;;
 128D0;PROTO-CUNEIFORM SIGN KUR-B;Lo;0;L;;;;N;;;;;
 128D1;PROTO-CUNEIFORM SIGN KUR-C;Lo;0;L;;;;N;;;;;
 128D2;PROTO-CUNEIFORM SIGN KUR-C VARIANT 1;Lo;0;L;;;;N;;;;;
 128D3;PROTO-CUNEIFORM SIGN KUR-D;Lo;0;L;;;;N;;;;;
 128D4;PROTO-CUNEIFORM SIGN KUSZU2-A;Lo;0;L;;;;N;;;;;
 128D5;PROTO-CUNEIFORM SIGN KUSZU2-B;Lo;0;L;;;;N;;;;;
 128D6;PROTO-CUNEIFORM SIGN KUSZU2-C;Lo;0;L;;;;N;;;;;
 128D7;PROTO-CUNEIFORM SIGN KUSZU2-D;Lo;0;L;;;;N;;;;;
 128D8;PROTO-CUNEIFORM SIGN KUSZU2-E;Lo;0;L;;;;N;;;;;
 128D9;PROTO-CUNEIFORM SIGN KUSZU2-F;Lo;0;L;;;;N;;;;;
 128DA;PROTO-CUNEIFORM SIGN LA-B;Lo;0;L;;;;N;;;;;
 128DB;PROTO-CUNEIFORM SIGN LA-C;Lo;0;L;;;;N;;;;;
 128DC;PROTO-CUNEIFORM SIGN LA-D;Lo;0;L;;;;N;;;;;
 128DD;PROTO-CUNEIFORM SIGN LA-E;Lo;0;L;;;;N;;;;;
 128DE;PROTO-CUNEIFORM SIGN LA2;Lo;0;L;;;;N;;;;;
 128DF;PROTO-CUNEIFORM SIGN LAGAB-A;Lo;0;L;;;;N;;;;;
 128E0;PROTO-CUNEIFORM SIGN LAGAB-B;Lo;0;L;;;;N;;;;;
 128E1;PROTO-CUNEIFORM SIGN LAGAR-A;Lo;0;L;;;;N;;;;;
 128E2;PROTO-CUNEIFORM SIGN LAGAR-A REVERSED;Lo;0;L;;;;N;;;;;
 128E3;PROTO-CUNEIFORM SIGN LAGAR-B1;Lo;0;L;;;;N;;;;;
 128E4;PROTO-CUNEIFORM SIGN LAGAR-B2;Lo;0;L;;;;N;;;;;
 128E5;PROTO-CUNEIFORM SIGN LAGAR-C;Lo;0;L;;;;N;;;;;
 128E6;PROTO-CUNEIFORM SIGN LAHTAN2;Lo;0;L;;;;N;;;;;
 128E7;PROTO-CUNEIFORM SIGN LAK025;Lo;0;L;;;;N;;;;;
 128E8;PROTO-CUNEIFORM SIGN LAK050;Lo;0;L;;;;N;;;;;
 128E9;PROTO-CUNEIFORM SIGN LAK172;Lo;0;L;;;;N;;;;;
 128EA;PROTO-CUNEIFORM SIGN LAK251;Lo;0;L;;;;N;;;;;
 128EB;PROTO-CUNEIFORM SIGN LAK350;Lo;0;L;;;;N;;;;;
 128EC;PROTO-CUNEIFORM SIGN LAK777;Lo;0;L;;;;N;;;;;
 128ED;PROTO-CUNEIFORM SIGN LAL2-A;Lo;0;L;;;;N;;;;;
 128EE;PROTO-CUNEIFORM SIGN LAL2-B;Lo;0;L;;;;N;;;;;
 128EF;PROTO-CUNEIFORM SIGN LAL3-A;Lo;0;L;;;;N;;;;;
 128F0;PROTO-CUNEIFORM SIGN LAL3-B;Lo;0;L;;;;N;;;;;
 128F1;PROTO-CUNEIFORM SIGN LAL3-C;Lo;0;L;;;;N;;;;;
 128F2;PROTO-CUNEIFORM SIGN LAM-A;Lo;0;L;;;;N;;;;;
 128F3;PROTO-CUNEIFORM SIGN LAM-B;Lo;0;L;;;;N;;;;;
 128F4;PROTO-CUNEIFORM SIGN LAM-B VARIANT 1;Lo;0;L;;;;N;;;;;
 128F5;PROTO-CUNEIFORM SIGN LAM-B VARIANT 2;Lo;0;L;;;;N;;;;;
 128F6;PROTO-CUNEIFORM SIGN LAM-B REVERSED;Lo;0;L;;;;N;;;;;
 128F7;PROTO-CUNEIFORM SIGN LAM-B TENU;Lo;0;L;;;;N;;;;;
 128F8;PROTO-CUNEIFORM SIGN LAM-B SHESHIG;Lo;0;L;;;;N;;;;;
 128F9;PROTO-CUNEIFORM SIGN LAM-C;Lo;0;L;;;;N;;;;;
 128FA;PROTO-CUNEIFORM SIGN LI;Lo;0;L;;;;N;;;;;
 128FB;PROTO-CUNEIFORM SIGN LI VARIANT 1;Lo;0;L;;;;N;;;;;
 128FC;PROTO-CUNEIFORM SIGN LISZ;Lo;0;L;;;;N;;;;;
 128FD;PROTO-CUNEIFORM SIGN LU2;Lo;0;L;;;;N;;;;;
 128FE;PROTO-CUNEIFORM SIGN LU2 VARIANT 1;Lo;0;L;;;;N;;;;;

128FF;PROTO-CUNEIFORM SIGN LU2 VARIANT 2;Lo;0;L;;;;N;;;;;
 12900;PROTO-CUNEIFORM SIGN LU2 TENU;Lo;0;L;;;;N;;;;;
 12901;PROTO-CUNEIFORM SIGN LUGAL;Lo;0;L;;;;N;;;;;
 12902;PROTO-CUNEIFORM SIGN LUGAL VARIANT 1;Lo;0;L;;;;N;;;;;
 12903;PROTO-CUNEIFORM SIGN LUM;Lo;0;L;;;;N;;;;;
 12904;PROTO-CUNEIFORM SIGN MA;Lo;0;L;;;;N;;;;;
 12905;PROTO-CUNEIFORM SIGN MA VARIANT 1;Lo;0;L;;;;N;;;;;
 12906;PROTO-CUNEIFORM SIGN MA2;Lo;0;L;;;;N;;;;;
 12907;PROTO-CUNEIFORM SIGN MAGUR-A;Lo;0;L;;;;N;;;;;
 12908;PROTO-CUNEIFORM SIGN MAGUR-B;Lo;0;L;;;;N;;;;;
 12909;PROTO-CUNEIFORM SIGN MAH-A;Lo;0;L;;;;N;;;;;
 1290A;PROTO-CUNEIFORM SIGN MAH-B;Lo;0;L;;;;N;;;;;
 1290B;PROTO-CUNEIFORM SIGN MAR-A;Lo;0;L;;;;N;;;;;
 1290C;PROTO-CUNEIFORM SIGN MAR-A VARIANT 1;Lo;0;L;;;;N;;;;;
 1290D;PROTO-CUNEIFORM SIGN MAR-A TENU;Lo;0;L;;;;N;;;;;
 1290E;PROTO-CUNEIFORM SIGN MAR-B;Lo;0;L;;;;N;;;;;
 1290F;PROTO-CUNEIFORM SIGN MASZ;Lo;0;L;;;;N;;;;;
 12910;PROTO-CUNEIFORM SIGN MASZ2;Lo;0;L;;;;N;;;;;
 12911;PROTO-CUNEIFORM SIGN MASZ2 GUNU;Lo;0;L;;;;N;;;;;
 12912;PROTO-CUNEIFORM SIGN ME-A;Lo;0;L;;;;N;;;;;
 12913;PROTO-CUNEIFORM SIGN ME-B;Lo;0;L;;;;N;;;;;
 12914;PROTO-CUNEIFORM SIGN ME3;Lo;0;L;;;;N;;;;;
 12915;PROTO-CUNEIFORM SIGN MEN-A;Lo;0;L;;;;N;;;;;
 12916;PROTO-CUNEIFORM SIGN MEN-A VARIANT 1;Lo;0;L;;;;N;;;;;
 12917;PROTO-CUNEIFORM SIGN MEN-B;Lo;0;L;;;;N;;;;;
 12918;PROTO-CUNEIFORM SIGN MES;Lo;0;L;;;;N;;;;;
 12919;PROTO-CUNEIFORM SIGN MES VARIANT 1;Lo;0;L;;;;N;;;;;
 1291A;PROTO-CUNEIFORM SIGN MIR-A;Lo;0;L;;;;N;;;;;
 1291B;PROTO-CUNEIFORM SIGN MIR-B;Lo;0;L;;;;N;;;;;
 1291C;PROTO-CUNEIFORM SIGN MU;Lo;0;L;;;;N;;;;;
 1291D;PROTO-CUNEIFORM SIGN MUD;Lo;0;L;;;;N;;;;;
 1291E;PROTO-CUNEIFORM SIGN MUD VARIANT 1;Lo;0;L;;;;N;;;;;
 1291F;PROTO-CUNEIFORM SIGN MUD3-A;Lo;0;L;;;;N;;;;;
 12920;PROTO-CUNEIFORM SIGN MUD3-A GUNU;Lo;0;L;;;;N;;;;;
 12921;PROTO-CUNEIFORM SIGN MUD3-B;Lo;0;L;;;;N;;;;;
 12922;PROTO-CUNEIFORM SIGN MUD3-C;Lo;0;L;;;;N;;;;;
 12923;PROTO-CUNEIFORM SIGN MUD3-D;Lo;0;L;;;;N;;;;;
 12924;PROTO-CUNEIFORM SIGN MUL;Lo;0;L;;;;N;;;;;
 12925;PROTO-CUNEIFORM SIGN MUN-A1;Lo;0;L;;;;N;;;;;
 12926;PROTO-CUNEIFORM SIGN MUN-A2;Lo;0;L;;;;N;;;;;
 12927;PROTO-CUNEIFORM SIGN MUN-A3;Lo;0;L;;;;N;;;;;
 12928;PROTO-CUNEIFORM SIGN MUN-A4;Lo;0;L;;;;N;;;;;
 12929;PROTO-CUNEIFORM SIGN MUN-B;Lo;0;L;;;;N;;;;;
 1292A;PROTO-CUNEIFORM SIGN MUNSZUB-A;Lo;0;L;;;;N;;;;;
 1292B;PROTO-CUNEIFORM SIGN MUNSZUB-B;Lo;0;L;;;;N;;;;;
 1292C;PROTO-CUNEIFORM SIGN MUNU3;Lo;0;L;;;;N;;;;;
 1292D;PROTO-CUNEIFORM SIGN MURUB2;Lo;0;L;;;;N;;;;;
 1292E;PROTO-CUNEIFORM SIGN MUSZ;Lo;0;L;;;;N;;;;;
 1292F;PROTO-CUNEIFORM SIGN MUSZ3-A;Lo;0;L;;;;N;;;;;
 12930;PROTO-CUNEIFORM SIGN MUSZ3-A VARIANT 1;Lo;0;L;;;;N;;;;;

12931;PROTO-CUNEIFORM SIGN MUSZ3-A VARIANT 2;Lo;0;L;;;;;N;;;;;
 12932;PROTO-CUNEIFORM SIGN MUSZ3-A GUNU;Lo;0;L;;;;;N;;;;;
 12933;PROTO-CUNEIFORM SIGN MUSZ3-A GUNU VARIANT 1;Lo;0;L;;;;;N;;;;;
 12934;PROTO-CUNEIFORM SIGN MUSZ3-B;Lo;0;L;;;;;N;;;;;
 12935;PROTO-CUNEIFORM SIGN MUSZEN;Lo;0;L;;;;;N;;;;;
 12936;PROTO-CUNEIFORM SIGN NA-A;Lo;0;L;;;;;N;;;;;
 12937;PROTO-CUNEIFORM SIGN NA-B;Lo;0;L;;;;;N;;;;;
 12938;PROTO-CUNEIFORM SIGN NA-C;Lo;0;L;;;;;N;;;;;
 12939;PROTO-CUNEIFORM SIGN NA-D;Lo;0;L;;;;;N;;;;;
 1293A;PROTO-CUNEIFORM SIGN NA2-A;Lo;0;L;;;;;N;;;;;
 1293B;PROTO-CUNEIFORM SIGN NA2-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 1293C;PROTO-CUNEIFORM SIGN NA2-B1;Lo;0;L;;;;;N;;;;;
 1293D;PROTO-CUNEIFORM SIGN NA2-B2;Lo;0;L;;;;;N;;;;;
 1293E;PROTO-CUNEIFORM SIGN NAB;Lo;0;L;;;;;N;;;;;
 1293F;PROTO-CUNEIFORM SIGN NAB VARIANT 1;Lo;0;L;;;;;N;;;;;
 12940;PROTO-CUNEIFORM SIGN NAB VARIANT 2;Lo;0;L;;;;;N;;;;;
 12941;PROTO-CUNEIFORM SIGN NAGA-A;Lo;0;L;;;;;N;;;;;
 12942;PROTO-CUNEIFORM SIGN NAGA-B;Lo;0;L;;;;;N;;;;;
 12943;PROTO-CUNEIFORM SIGN NAGAR-A;Lo;0;L;;;;;N;;;;;
 12944;PROTO-CUNEIFORM SIGN NAGAR-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12945;PROTO-CUNEIFORM SIGN NAGAR-A VARIANT 2;Lo;0;L;;;;;N;;;;;
 12946;PROTO-CUNEIFORM SIGN NAGAR-A VARIANT 3;Lo;0;L;;;;;N;;;;;
 12947;PROTO-CUNEIFORM SIGN NAGAR-B;Lo;0;L;;;;;N;;;;;
 12948;PROTO-CUNEIFORM SIGN NAGAR-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12949;PROTO-CUNEIFORM SIGN NAM-A;Lo;0;L;;;;;N;;;;;
 1294A;PROTO-CUNEIFORM SIGN NAM-B;Lo;0;L;;;;;N;;;;;
 1294B;PROTO-CUNEIFORM SIGN NAM-C;Lo;0;L;;;;;N;;;;;
 1294C;PROTO-CUNEIFORM SIGN NAM-D;Lo;0;L;;;;;N;;;;;
 1294D;PROTO-CUNEIFORM SIGN NAM2;Lo;0;L;;;;;N;;;;;
 1294E;PROTO-CUNEIFORM SIGN NAM2 GUNU;Lo;0;L;;;;;N;;;;;
 1294F;PROTO-CUNEIFORM SIGN NAM2 TENU;Lo;0;L;;;;;N;;;;;
 12950;PROTO-CUNEIFORM SIGN NAMESZDA;Lo;0;L;;;;;N;;;;;
 12951;PROTO-CUNEIFORM SIGN NAMESZDA VARIANT 1;Lo;0;L;;;;;N;;;;;
 12952;PROTO-CUNEIFORM SIGN NANNA-A;Lo;0;L;;;;;N;;;;;
 12953;PROTO-CUNEIFORM SIGN NANNA-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12954;PROTO-CUNEIFORM SIGN NANNA-B;Lo;0;L;;;;;N;;;;;
 12955;PROTO-CUNEIFORM SIGN NANSZE-A;Lo;0;L;;;;;N;;;;;
 12956;PROTO-CUNEIFORM SIGN NANSZE-B;Lo;0;L;;;;;N;;;;;
 12957;PROTO-CUNEIFORM SIGN NAR;Lo;0;L;;;;;N;;;;;
 12958;PROTO-CUNEIFORM SIGN NE-A;Lo;0;L;;;;;N;;;;;
 12959;PROTO-CUNEIFORM SIGN NE-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 1295A;PROTO-CUNEIFORM SIGN NE-A VARIANT 2;Lo;0;L;;;;;N;;;;;
 1295B;PROTO-CUNEIFORM SIGN NE-B;Lo;0;L;;;;;N;;;;;
 1295C;PROTO-CUNEIFORM SIGN NE-C;Lo;0;L;;;;;N;;;;;
 1295D;PROTO-CUNEIFORM SIGN NE-D;Lo;0;L;;;;;N;;;;;
 1295E;PROTO-CUNEIFORM SIGN NERGAL-X;Lo;0;L;;;;;N;;;;;
 1295F;PROTO-CUNEIFORM SIGN NESAG2-A;Lo;0;L;;;;;N;;;;;
 12960;PROTO-CUNEIFORM SIGN NESAG2-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12961;PROTO-CUNEIFORM SIGN NESAG2-B;Lo;0;L;;;;;N;;;;;
 12962;PROTO-CUNEIFORM SIGN NESAG2-B VARIANT 1;Lo;0;L;;;;;N;;;;;

12963;PROTO-CUNEIFORM SIGN NESAG2-B TENU;Lo;0;L;;;;;N;;;;;
 12964;PROTO-CUNEIFORM SIGN NI-A;Lo;0;L;;;;;N;;;;;
 12965;PROTO-CUNEIFORM SIGN NI-A GUNU;Lo;0;L;;;;;N;;;;;
 12966;PROTO-CUNEIFORM SIGN NI-B;Lo;0;L;;;;;N;;;;;
 12967;PROTO-CUNEIFORM SIGN NI2;Lo;0;L;;;;;N;;;;;
 12968;PROTO-CUNEIFORM SIGN NIGIN;Lo;0;L;;;;;N;;;;;
 12969;PROTO-CUNEIFORM SIGN NIM-A;Lo;0;L;;;;;N;;;;;
 1296A;PROTO-CUNEIFORM SIGN NIM-B1;Lo;0;L;;;;;N;;;;;
 1296B;PROTO-CUNEIFORM SIGN NIM-B2;Lo;0;L;;;;;N;;;;;
 1296C;PROTO-CUNEIFORM SIGN NIM-B3;Lo;0;L;;;;;N;;;;;
 1296D;PROTO-CUNEIFORM SIGN NIMGIR;Lo;0;L;;;;;N;;;;;
 1296E;PROTO-CUNEIFORM SIGN NIMGIR VARIANT 1;Lo;0;L;;;;;N;;;;;
 1296F;PROTO-CUNEIFORM SIGN NIN;Lo;0;L;;;;;N;;;;;
 12970;PROTO-CUNEIFORM SIGN NINDA2;Lo;0;L;;;;;N;;;;;
 12971;PROTO-CUNEIFORM SIGN NINDA2 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12972;PROTO-CUNEIFORM SIGN NINKUM;Lo;0;L;;;;;N;;;;;
 12973;PROTO-CUNEIFORM SIGN NINLIL;Lo;0;L;;;;;N;;;;;
 12974;PROTO-CUNEIFORM SIGN NIR-A;Lo;0;L;;;;;N;;;;;
 12975;PROTO-CUNEIFORM SIGN NIR-B;Lo;0;L;;;;;N;;;;;
 12976;PROTO-CUNEIFORM SIGN NU;Lo;0;L;;;;;N;;;;;
 12977;PROTO-CUNEIFORM SIGN NU GUNU;Lo;0;L;;;;;N;;;;;
 12978;PROTO-CUNEIFORM SIGN NU11;Lo;0;L;;;;;N;;;;;
 12979;PROTO-CUNEIFORM SIGN NU11 TENU;Lo;0;L;;;;;N;;;;;
 1297A;PROTO-CUNEIFORM SIGN NUMUN;Lo;0;L;;;;;N;;;;;
 1297B;PROTO-CUNEIFORM SIGN NUMUN2;Lo;0;L;;;;;N;;;;;
 1297C;PROTO-CUNEIFORM SIGN NUN-A;Lo;0;L;;;;;N;;;;;
 1297D;PROTO-CUNEIFORM SIGN NUN-B;Lo;0;L;;;;;N;;;;;
 1297E;PROTO-CUNEIFORM SIGN NUN-C;Lo;0;L;;;;;N;;;;;
 1297F;PROTO-CUNEIFORM SIGN NUN-C VARIANT 1;Lo;0;L;;;;;N;;;;;
 12980;PROTO-CUNEIFORM SIGN NUN-C VARIANT 2;Lo;0;L;;;;;N;;;;;
 12981;PROTO-CUNEIFORM SIGN NUN-C VARIANT 3;Lo;0;L;;;;;N;;;;;
 12982;PROTO-CUNEIFORM SIGN NUN-D;Lo;0;L;;;;;N;;;;;
 12983;PROTO-CUNEIFORM SIGN NUNUZ-A0;Lo;0;L;;;;;N;;;;;
 12984;PROTO-CUNEIFORM SIGN NUNUZ-A1;Lo;0;L;;;;;N;;;;;
 12985;PROTO-CUNEIFORM SIGN NUNUZ-A1 TENU;Lo;0;L;;;;;N;;;;;
 12986;PROTO-CUNEIFORM SIGN NUNUZ-A2;Lo;0;L;;;;;N;;;;;
 12987;PROTO-CUNEIFORM SIGN NUNUZ-B1;Lo;0;L;;;;;N;;;;;
 12988;PROTO-CUNEIFORM SIGN NUNUZ-B2;Lo;0;L;;;;;N;;;;;
 12989;PROTO-CUNEIFORM SIGN NUNUZ-C;Lo;0;L;;;;;N;;;;;
 1298A;PROTO-CUNEIFORM SIGN NUNUZ-C VARIANT 1;Lo;0;L;;;;;N;;;;;
 1298B;PROTO-CUNEIFORM SIGN NUNUZ-C VARIANT 2;Lo;0;L;;;;;N;;;;;
 1298C;PROTO-CUNEIFORM SIGN NUNUZ-C VARIANT 3;Lo;0;L;;;;;N;;;;;
 1298D;PROTO-CUNEIFORM SIGN PA-A;Lo;0;L;;;;;N;;;;;
 1298E;PROTO-CUNEIFORM SIGN PA-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 1298F;PROTO-CUNEIFORM SIGN PA-A VARIANT 2;Lo;0;L;;;;;N;;;;;
 12990;PROTO-CUNEIFORM SIGN PA-B;Lo;0;L;;;;;N;;;;;
 12991;PROTO-CUNEIFORM SIGN PA3;Lo;0;L;;;;;N;;;;;
 12992;PROTO-CUNEIFORM SIGN PAD-A;Lo;0;L;;;;;N;;;;;
 12993;PROTO-CUNEIFORM SIGN PAD-B;Lo;0;L;;;;;N;;;;;
 12994;PROTO-CUNEIFORM SIGN PAP-A;Lo;0;L;;;;;N;;;;;

12995;PROTO-CUNEIFORM SIGN PAP-A TENU;Lo;0;L;;;;;N;;;;;
 12996;PROTO-CUNEIFORM SIGN PAP-B;Lo;0;L;;;;;N;;;;;
 12997;PROTO-CUNEIFORM SIGN PAP-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12998;PROTO-CUNEIFORM SIGN PIRIG-A1;Lo;0;L;;;;;N;;;;;
 12999;PROTO-CUNEIFORM SIGN PIRIG-A2;Lo;0;L;;;;;N;;;;;
 1299A;PROTO-CUNEIFORM SIGN PIRIG-A3;Lo;0;L;;;;;N;;;;;
 1299B;PROTO-CUNEIFORM SIGN PIRIG-B1;Lo;0;L;;;;;N;;;;;
 1299C;PROTO-CUNEIFORM SIGN PIRIG-B2;Lo;0;L;;;;;N;;;;;
 1299D;PROTO-CUNEIFORM SIGN PU2;Lo;0;L;;;;;N;;;;;
 1299E;PROTO-CUNEIFORM SIGN RA;Lo;0;L;;;;;N;;;;;
 1299F;PROTO-CUNEIFORM SIGN RAD-A;Lo;0;L;;;;;N;;;;;
 129A0;PROTO-CUNEIFORM SIGN RAD-A GUNU;Lo;0;L;;;;;N;;;;;
 129A1;PROTO-CUNEIFORM SIGN RAD-A TENU;Lo;0;L;;;;;N;;;;;
 129A2;PROTO-CUNEIFORM SIGN RAD-B;Lo;0;L;;;;;N;;;;;
 129A3;PROTO-CUNEIFORM SIGN RI;Lo;0;L;;;;;N;;;;;
 129A4;PROTO-CUNEIFORM SIGN RI-X;Lo;0;L;;;;;N;;;;;
 129A5;PROTO-CUNEIFORM SIGN RI8-A;Lo;0;L;;;;;N;;;;;
 129A6;PROTO-CUNEIFORM SIGN RI8-B;Lo;0;L;;;;;N;;;;;
 129A7;PROTO-CUNEIFORM SIGN RU;Lo;0;L;;;;;N;;;;;
 129A8;PROTO-CUNEIFORM SIGN RU VARIANT 1;Lo;0;L;;;;;N;;;;;
 129A9;PROTO-CUNEIFORM SIGN RU TENU;Lo;0;L;;;;;N;;;;;
 129AA;PROTO-CUNEIFORM SIGN SA-A;Lo;0;L;;;;;N;;;;;
 129AB;PROTO-CUNEIFORM SIGN SA-C;Lo;0;L;;;;;N;;;;;
 129AC;PROTO-CUNEIFORM SIGN SA-C VARIANT 1;Lo;0;L;;;;;N;;;;;
 129AD;PROTO-CUNEIFORM SIGN SAG;Lo;0;L;;;;;N;;;;;
 129AE;PROTO-CUNEIFORM SIGN SAG VARIANT 1;Lo;0;L;;;;;N;;;;;
 129AF;PROTO-CUNEIFORM SIGN SAG VARIANT 2;Lo;0;L;;;;;N;;;;;
 129B0;PROTO-CUNEIFORM SIGN SAG GUNU;Lo;0;L;;;;;N;;;;;
 129B1;PROTO-CUNEIFORM SIGN SAG NUTILLU;Lo;0;L;;;;;N;;;;;
 129B2;PROTO-CUNEIFORM SIGN SAGSZU;Lo;0;L;;;;;N;;;;;
 129B3;PROTO-CUNEIFORM SIGN SAL;Lo;0;L;;;;;N;;;;;
 129B4;PROTO-CUNEIFORM SIGN SANGA-A;Lo;0;L;;;;;N;;;;;
 129B5;PROTO-CUNEIFORM SIGN SANGA-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 129B6;PROTO-CUNEIFORM SIGN SANGA-A VARIANT 2;Lo;0;L;;;;;N;;;;;
 129B7;PROTO-CUNEIFORM SIGN SANGA-B;Lo;0;L;;;;;N;;;;;
 129B8;PROTO-CUNEIFORM SIGN SANGA-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 129B9;PROTO-CUNEIFORM SIGN SANGA-C;Lo;0;L;;;;;N;;;;;
 129BA;PROTO-CUNEIFORM SIGN SAR-A;Lo;0;L;;;;;N;;;;;
 129BB;PROTO-CUNEIFORM SIGN SAR-B;Lo;0;L;;;;;N;;;;;
 129BC;PROTO-CUNEIFORM SIGN SAR-C;Lo;0;L;;;;;N;;;;;
 129BD;PROTO-CUNEIFORM SIGN SI;Lo;0;L;;;;;N;;;;;
 129BE;PROTO-CUNEIFORM SIGN SI VARIANT 1;Lo;0;L;;;;;N;;;;;
 129BF;PROTO-CUNEIFORM SIGN SI4-A;Lo;0;L;;;;;N;;;;;
 129C0;PROTO-CUNEIFORM SIGN SI4-B;Lo;0;L;;;;;N;;;;;
 129C1;PROTO-CUNEIFORM SIGN SI4-C;Lo;0;L;;;;;N;;;;;
 129C2;PROTO-CUNEIFORM SIGN SI4-D;Lo;0;L;;;;;N;;;;;
 129C3;PROTO-CUNEIFORM SIGN SI4-D VARIANT 1;Lo;0;L;;;;;N;;;;;
 129C4;PROTO-CUNEIFORM SIGN SI4-F;Lo;0;L;;;;;N;;;;;
 129C5;PROTO-CUNEIFORM SIGN SI4-F VARIANT 1;Lo;0;L;;;;;N;;;;;
 129C6;PROTO-CUNEIFORM SIGN SIG;Lo;0;L;;;;;N;;;;;

129C7;PROTO-CUNEIFORM SIGN SIG GUNU;Lo;0;L;;;;;N;;;;;
 129C8;PROTO-CUNEIFORM SIGN SIG4;Lo;0;L;;;;;N;;;;;
 129C9;PROTO-CUNEIFORM SIGN SIG7;Lo;0;L;;;;;N;;;;;
 129CA;PROTO-CUNEIFORM SIGN SIG7 VARIANT 1;Lo;0;L;;;;;N;;;;;
 129CB;PROTO-CUNEIFORM SIGN SIG2-A1;Lo;0;L;;;;;N;;;;;
 129CC;PROTO-CUNEIFORM SIGN SIG2-A2;Lo;0;L;;;;;N;;;;;
 129CD;PROTO-CUNEIFORM SIGN SIG2-A3;Lo;0;L;;;;;N;;;;;
 129CE;PROTO-CUNEIFORM SIGN SIG2-A3 VARIANT 1;Lo;0;L;;;;;N;;;;;
 129CF;PROTO-CUNEIFORM SIGN SIG2-A3 VARIANT 2;Lo;0;L;;;;;N;;;;;
 129D0;PROTO-CUNEIFORM SIGN SIG2-A4;Lo;0;L;;;;;N;;;;;
 129D1;PROTO-CUNEIFORM SIGN SIG2-B;Lo;0;L;;;;;N;;;;;
 129D2;PROTO-CUNEIFORM SIGN SIG2-C1;Lo;0;L;;;;;N;;;;;
 129D3;PROTO-CUNEIFORM SIGN SIG2-C2;Lo;0;L;;;;;N;;;;;
 129D4;PROTO-CUNEIFORM SIGN SIG2-D1;Lo;0;L;;;;;N;;;;;
 129D5;PROTO-CUNEIFORM SIGN SIG2-D2;Lo;0;L;;;;;N;;;;;
 129D6;PROTO-CUNEIFORM SIGN SIG2-D2 VARIANT 1;Lo;0;L;;;;;N;;;;;
 129D7;PROTO-CUNEIFORM SIGN SIG2-D3;Lo;0;L;;;;;N;;;;;
 129D8;PROTO-CUNEIFORM SIGN SIG2-D4;Lo;0;L;;;;;N;;;;;
 129D9;PROTO-CUNEIFORM SIGN SIG2-E;Lo;0;L;;;;;N;;;;;
 129DA;PROTO-CUNEIFORM SIGN SIKIL;Lo;0;L;;;;;N;;;;;
 129DB;PROTO-CUNEIFORM SIGN SILA3-A;Lo;0;L;;;;;N;;;;;
 129DC;PROTO-CUNEIFORM SIGN SILA3-B;Lo;0;L;;;;;N;;;;;
 129DD;PROTO-CUNEIFORM SIGN SILA3-C;Lo;0;L;;;;;N;;;;;
 129DE;PROTO-CUNEIFORM SIGN SILA4-A;Lo;0;L;;;;;N;;;;;
 129DF;PROTO-CUNEIFORM SIGN SILA4-B;Lo;0;L;;;;;N;;;;;
 129E0;PROTO-CUNEIFORM SIGN SILA4-C;Lo;0;L;;;;;N;;;;;
 129E1;PROTO-CUNEIFORM SIGN SILA4-D;Lo;0;L;;;;;N;;;;;
 129E2;PROTO-CUNEIFORM SIGN SILANITA;Lo;0;L;;;;;N;;;;;
 129E3;PROTO-CUNEIFORM SIGN SIMUG;Lo;0;L;;;;;N;;;;;
 129E4;PROTO-CUNEIFORM SIGN SIMUG VARIANT 1;Lo;0;L;;;;;N;;;;;
 129E5;PROTO-CUNEIFORM SIGN SIPA;Lo;0;L;;;;;N;;;;;
 129E6;PROTO-CUNEIFORM SIGN SU-A;Lo;0;L;;;;;N;;;;;
 129E7;PROTO-CUNEIFORM SIGN SU-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 129E8;PROTO-CUNEIFORM SIGN SU-B;Lo;0;L;;;;;N;;;;;
 129E9;PROTO-CUNEIFORM SIGN SU3;Lo;0;L;;;;;N;;;;;
 129EA;PROTO-CUNEIFORM SIGN SUG;Lo;0;L;;;;;N;;;;;
 129EB;PROTO-CUNEIFORM SIGN SUG5;Lo;0;L;;;;;N;;;;;
 129EC;PROTO-CUNEIFORM SIGN SUH3;Lo;0;L;;;;;N;;;;;
 129ED;PROTO-CUNEIFORM SIGN SUHUR;Lo;0;L;;;;;N;;;;;
 129EE;PROTO-CUNEIFORM SIGN SUHUR GUNU;Lo;0;L;;;;;N;;;;;
 129EF;PROTO-CUNEIFORM SIGN SUHUR NUTILLU;Lo;0;L;;;;;N;;;;;
 129F0;PROTO-CUNEIFORM SIGN SUKKAL;Lo;0;L;;;;;N;;;;;
 129F1;PROTO-CUNEIFORM SIGN SUKUD;Lo;0;L;;;;;N;;;;;
 129F2;PROTO-CUNEIFORM SIGN SUKUD GUNU-A;Lo;0;L;;;;;N;;;;;
 129F3;PROTO-CUNEIFORM SIGN SUKUD GUNU-B;Lo;0;L;;;;;N;;;;;
 129F4;PROTO-CUNEIFORM SIGN SUKUD GUNU-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 129F5;PROTO-CUNEIFORM SIGN SUKUD GUNU-C;Lo;0;L;;;;;N;;;;;
 129F6;PROTO-CUNEIFORM SIGN SUKUD GUNU-D;Lo;0;L;;;;;N;;;;;
 129F7;PROTO-CUNEIFORM SIGN SUM-A;Lo;0;L;;;;;N;;;;;
 129F8;PROTO-CUNEIFORM SIGN SUM-A VARIANT 1;Lo;0;L;;;;;N;;;;;

129F9;PROTO-CUNEIFORM SIGN SUM-A TENU;Lo;0;L;;;;;N;;;;;
 129FA;PROTO-CUNEIFORM SIGN SUM-B;Lo;0;L;;;;;N;;;;;
 129FB;PROTO-CUNEIFORM SIGN SUMASZ;Lo;0;L;;;;;N;;;;;
 129FC;PROTO-CUNEIFORM SIGN SUR;Lo;0;L;;;;;N;;;;;
 129FD;PROTO-CUNEIFORM SIGN SUSA;Lo;0;L;;;;;N;;;;;
 129FE;PROTO-CUNEIFORM SIGN SZA;Lo;0;L;;;;;N;;;;;
 129FF;PROTO-CUNEIFORM SIGN SZA VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A00;PROTO-CUNEIFORM SIGN SZA VARIANT 2;Lo;0;L;;;;;N;;;;;
 12A01;PROTO-CUNEIFORM SIGN SZA GUNU;Lo;0;L;;;;;N;;;;;
 12A02;PROTO-CUNEIFORM SIGN SZA3-A1;Lo;0;L;;;;;N;;;;;
 12A03;PROTO-CUNEIFORM SIGN SZA3-A2;Lo;0;L;;;;;N;;;;;
 12A04;PROTO-CUNEIFORM SIGN SZA3-B;Lo;0;L;;;;;N;;;;;
 12A05;PROTO-CUNEIFORM SIGN SZA3-C;Lo;0;L;;;;;N;;;;;
 12A06;PROTO-CUNEIFORM SIGN SZA3-D;Lo;0;L;;;;;N;;;;;
 12A07;PROTO-CUNEIFORM SIGN SZAB-A;Lo;0;L;;;;;N;;;;;
 12A08;PROTO-CUNEIFORM SIGN SZAB-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A09;PROTO-CUNEIFORM SIGN SZAB-B;Lo;0;L;;;;;N;;;;;
 12A0A;PROTO-CUNEIFORM SIGN SZAB-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A0B;PROTO-CUNEIFORM SIGN SZAGAN;Lo;0;L;;;;;N;;;;;
 12A0C;PROTO-CUNEIFORM SIGN SZAGAN VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A0D;PROTO-CUNEIFORM SIGN SZAGINA;Lo;0;L;;;;;N;;;;;
 12A0E;PROTO-CUNEIFORM SIGN SHAH2-A;Lo;0;L;;;;;N;;;;;
 12A0F;PROTO-CUNEIFORM SIGN SHAH2-B;Lo;0;L;;;;;N;;;;;
 12A10;PROTO-CUNEIFORM SIGN SHAH2-C;Lo;0;L;;;;;N;;;;;
 12A11;PROTO-CUNEIFORM SIGN SZAKIR-A;Lo;0;L;;;;;N;;;;;
 12A12;PROTO-CUNEIFORM SIGN SZAKIR-B;Lo;0;L;;;;;N;;;;;
 12A13;PROTO-CUNEIFORM SIGN SZAKIR-C;Lo;0;L;;;;;N;;;;;
 12A14;PROTO-CUNEIFORM SIGN SZAM2;Lo;0;L;;;;;N;;;;;
 12A15;PROTO-CUNEIFORM SIGN SZANDANA-A;Lo;0;L;;;;;N;;;;;
 12A16;PROTO-CUNEIFORM SIGN SZANDANA-B;Lo;0;L;;;;;N;;;;;
 12A17;PROTO-CUNEIFORM SIGN SZE-A;Lo;0;L;;;;;N;;;;;
 12A18;PROTO-CUNEIFORM SIGN SZE-A TENU;Lo;0;L;;;;;N;;;;;
 12A19;PROTO-CUNEIFORM SIGN SZE-B;Lo;0;L;;;;;N;;;;;
 12A1A;PROTO-CUNEIFORM SIGN SZE-C;Lo;0;L;;;;;N;;;;;
 12A1B;PROTO-CUNEIFORM SIGN SZE3;Lo;0;L;;;;;N;;;;;
 12A1C;PROTO-CUNEIFORM SIGN SZE3 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A1D;PROTO-CUNEIFORM SIGN SZE3 TENU;Lo;0;L;;;;;N;;;;;
 12A1E;PROTO-CUNEIFORM SIGN SZE3 TENU VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A1F;PROTO-CUNEIFORM SIGN SZEG9;Lo;0;L;;;;;N;;;;;
 12A20;PROTO-CUNEIFORM SIGN SZELU;Lo;0;L;;;;;N;;;;;
 12A21;PROTO-CUNEIFORM SIGN SZEN-A;Lo;0;L;;;;;N;;;;;
 12A22;PROTO-CUNEIFORM SIGN SZEN-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A23;PROTO-CUNEIFORM SIGN SZEN-B;Lo;0;L;;;;;N;;;;;
 12A24;PROTO-CUNEIFORM SIGN SZEN-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A25;PROTO-CUNEIFORM SIGN SZEN-C;Lo;0;L;;;;;N;;;;;
 12A26;PROTO-CUNEIFORM SIGN SZEN-C TENU;Lo;0;L;;;;;N;;;;;
 12A27;PROTO-CUNEIFORM SIGN SZEN-D;Lo;0;L;;;;;N;;;;;
 12A28;PROTO-CUNEIFORM SIGN SZEN-D VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A29;PROTO-CUNEIFORM SIGN SZEN-D VARIANT 2;Lo;0;L;;;;;N;;;;;
 12A2A;PROTO-CUNEIFORM SIGN SZEN-E;Lo;0;L;;;;;N;;;;;

12A2B;PROTO-CUNEIFORM SIGN SZENNUR-A;Lo;0;L;;;;;N;;;;;
 12A2C;PROTO-CUNEIFORM SIGN SZENNUR-B;Lo;0;L;;;;;N;;;;;
 12A2D;PROTO-CUNEIFORM SIGN SZESZ-A;Lo;0;L;;;;;N;;;;;
 12A2E;PROTO-CUNEIFORM SIGN SZESZ-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A2F;PROTO-CUNEIFORM SIGN SZESZ-B;Lo;0;L;;;;;N;;;;;
 12A30;PROTO-CUNEIFORM SIGN SZIDIM;Lo;0;L;;;;;N;;;;;
 12A31;PROTO-CUNEIFORM SIGN SZIDIM TENU;Lo;0;L;;;;;N;;;;;
 12A32;PROTO-CUNEIFORM SIGN SZIM-A;Lo;0;L;;;;;N;;;;;
 12A33;PROTO-CUNEIFORM SIGN SZIM-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A34;PROTO-CUNEIFORM SIGN SZIM-A VARIANT 2;Lo;0;L;;;;;N;;;;;
 12A35;PROTO-CUNEIFORM SIGN SZIM-B;Lo;0;L;;;;;N;;;;;
 12A36;PROTO-CUNEIFORM SIGN SZIR-A;Lo;0;L;;;;;N;;;;;
 12A37;PROTO-CUNEIFORM SIGN SZIR-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A38;PROTO-CUNEIFORM SIGN SZIR-B;Lo;0;L;;;;;N;;;;;
 12A39;PROTO-CUNEIFORM SIGN SZIR-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A3A;PROTO-CUNEIFORM SIGN SZIR-B VARIANT 2;Lo;0;L;;;;;N;;;;;
 12A3B;PROTO-CUNEIFORM SIGN SZITA GUNU-A;Lo;0;L;;;;;N;;;;;
 12A3C;PROTO-CUNEIFORM SIGN SZITA GUNU-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A3D;PROTO-CUNEIFORM SIGN SZITA GUNU-B;Lo;0;L;;;;;N;;;;;
 12A3E;PROTO-CUNEIFORM SIGN SZITA-A1;Lo;0;L;;;;;N;;;;;
 12A3F;PROTO-CUNEIFORM SIGN SZITA-A2;Lo;0;L;;;;;N;;;;;
 12A40;PROTO-CUNEIFORM SIGN SZITA-A3;Lo;0;L;;;;;N;;;;;
 12A41;PROTO-CUNEIFORM SIGN SZITA-B1;Lo;0;L;;;;;N;;;;;
 12A42;PROTO-CUNEIFORM SIGN SZITA-B2;Lo;0;L;;;;;N;;;;;
 12A43;PROTO-CUNEIFORM SIGN SZITA-B3;Lo;0;L;;;;;N;;;;;
 12A44;PROTO-CUNEIFORM SIGN SZITA-C;Lo;0;L;;;;;N;;;;;
 12A45;PROTO-CUNEIFORM SIGN SZU;Lo;0;L;;;;;N;;;;;
 12A46;PROTO-CUNEIFORM SIGN SZU GUNU;Lo;0;L;;;;;N;;;;;
 12A47;PROTO-CUNEIFORM SIGN SZU2;Lo;0;L;;;;;N;;;;;
 12A48;PROTO-CUNEIFORM SIGN SZU2 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A49;PROTO-CUNEIFORM SIGN SZU12;Lo;0;L;;;;;N;;;;;
 12A4A;PROTO-CUNEIFORM SIGN SZU SHESSHIG;Lo;0;L;;;;;N;;;;;
 12A4B;PROTO-CUNEIFORM SIGN SZUBUR;Lo;0;L;;;;;N;;;;;
 12A4C;PROTO-CUNEIFORM SIGN SZUM;Lo;0;L;;;;;N;;;;;
 12A4D;PROTO-CUNEIFORM SIGN SZUR2-A;Lo;0;L;;;;;N;;;;;
 12A4E;PROTO-CUNEIFORM SIGN SZUR2-B;Lo;0;L;;;;;N;;;;;
 12A4F;PROTO-CUNEIFORM SIGN SZURUPPAK-A;Lo;0;L;;;;;N;;;;;
 12A50;PROTO-CUNEIFORM SIGN SZURUPPAK-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A51;PROTO-CUNEIFORM SIGN SZURUPPAK-B;Lo;0;L;;;;;N;;;;;
 12A52;PROTO-CUNEIFORM SIGN SZURUPPAK-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A53;PROTO-CUNEIFORM SIGN SZURUPPAK-C;Lo;0;L;;;;;N;;;;;
 12A54;PROTO-CUNEIFORM SIGN TA-A;Lo;0;L;;;;;N;;;;;
 12A55;PROTO-CUNEIFORM SIGN TA-B;Lo;0;L;;;;;N;;;;;
 12A56;PROTO-CUNEIFORM SIGN TA-C;Lo;0;L;;;;;N;;;;;
 12A57;PROTO-CUNEIFORM SIGN TA-D;Lo;0;L;;;;;N;;;;;
 12A58;PROTO-CUNEIFORM SIGN TA-E;Lo;0;L;;;;;N;;;;;
 12A59;PROTO-CUNEIFORM SIGN TA-F;Lo;0;L;;;;;N;;;;;
 12A5A;PROTO-CUNEIFORM SIGN TAG-A1;Lo;0;L;;;;;N;;;;;
 12A5B;PROTO-CUNEIFORM SIGN TAG-A1 TENU;Lo;0;L;;;;;N;;;;;
 12A5C;PROTO-CUNEIFORM SIGN TAG-A2;Lo;0;L;;;;;N;;;;;

12A5D;PROTO-CUNEIFORM SIGN TAG-A3;Lo;0;L;;;;N;;;;;
 12A5E;PROTO-CUNEIFORM SIGN TAG-A4;Lo;0;L;;;;N;;;;;
 12A5F;PROTO-CUNEIFORM SIGN TAG-B;Lo;0;L;;;;N;;;;;
 12A60;PROTO-CUNEIFORM SIGN TAG-C;Lo;0;L;;;;N;;;;;
 12A61;PROTO-CUNEIFORM SIGN TAG-D;Lo;0;L;;;;N;;;;;
 12A62;PROTO-CUNEIFORM SIGN TAK4-A;Lo;0;L;;;;N;;;;;
 12A63;PROTO-CUNEIFORM SIGN TAK4-A VARIANT 1;Lo;0;L;;;;N;;;;;
 12A64;PROTO-CUNEIFORM SIGN TAK4-A NUTILLU;Lo;0;L;;;;N;;;;;
 12A65;PROTO-CUNEIFORM SIGN TAK4-C;Lo;0;L;;;;N;;;;;
 12A66;PROTO-CUNEIFORM SIGN TAR-A;Lo;0;L;;;;N;;;;;
 12A67;PROTO-CUNEIFORM SIGN TAR-D;Lo;0;L;;;;N;;;;;
 12A68;PROTO-CUNEIFORM SIGN TE;Lo;0;L;;;;N;;;;;
 12A69;PROTO-CUNEIFORM SIGN TI;Lo;0;L;;;;N;;;;;
 12A6A;PROTO-CUNEIFORM SIGN TI VARIANT 1;Lo;0;L;;;;N;;;;;
 12A6B;PROTO-CUNEIFORM SIGN TI GUNU;Lo;0;L;;;;N;;;;;
 12A6C;PROTO-CUNEIFORM SIGN TI REVERSED;Lo;0;L;;;;N;;;;;
 12A6D;PROTO-CUNEIFORM SIGN TI TENU;Lo;0;L;;;;N;;;;;
 12A6E;PROTO-CUNEIFORM SIGN TIDNUM;Lo;0;L;;;;N;;;;;
 12A6F;PROTO-CUNEIFORM SIGN TILLA2;Lo;0;L;;;;N;;;;;
 12A70;PROTO-CUNEIFORM SIGN TU-A;Lo;0;L;;;;N;;;;;
 12A71;PROTO-CUNEIFORM SIGN TU-B;Lo;0;L;;;;N;;;;;
 12A72;PROTO-CUNEIFORM SIGN TU-C;Lo;0;L;;;;N;;;;;
 12A73;PROTO-CUNEIFORM SIGN TUG2-A;Lo;0;L;;;;N;;;;;
 12A74;PROTO-CUNEIFORM SIGN TUG2-A GUNU;Lo;0;L;;;;N;;;;;
 12A75;PROTO-CUNEIFORM SIGN TUG2-A GUNU VARIANT 1;Lo;0;L;;;;N;;;;;
 12A76;PROTO-CUNEIFORM SIGN TUG2-B;Lo;0;L;;;;N;;;;;
 12A77;PROTO-CUNEIFORM SIGN TUG2-C;Lo;0;L;;;;N;;;;;
 12A78;PROTO-CUNEIFORM SIGN TUG2-D;Lo;0;L;;;;N;;;;;
 12A79;PROTO-CUNEIFORM SIGN TUM-A;Lo;0;L;;;;N;;;;;
 12A7A;PROTO-CUNEIFORM SIGN TUM-A GUNU;Lo;0;L;;;;N;;;;;
 12A7B;PROTO-CUNEIFORM SIGN TUM-B;Lo;0;L;;;;N;;;;;
 12A7C;PROTO-CUNEIFORM SIGN TUM-C;Lo;0;L;;;;N;;;;;
 12A7D;PROTO-CUNEIFORM SIGN TUM-D;Lo;0;L;;;;N;;;;;
 12A7E;PROTO-CUNEIFORM SIGN TUN3-A;Lo;0;L;;;;N;;;;;
 12A7F;PROTO-CUNEIFORM SIGN TUN3-B;Lo;0;L;;;;N;;;;;
 12A80;PROTO-CUNEIFORM SIGN TUN3-C;Lo;0;L;;;;N;;;;;
 12A81;PROTO-CUNEIFORM SIGN TUR;Lo;0;L;;;;N;;;;;
 12A82;PROTO-CUNEIFORM SIGN TUR VARIANT 1;Lo;0;L;;;;N;;;;;
 12A83;PROTO-CUNEIFORM SIGN TUR VARIANT 2;Lo;0;L;;;;N;;;;;
 12A84;PROTO-CUNEIFORM SIGN TUR VARIANT 3;Lo;0;L;;;;N;;;;;
 12A85;PROTO-CUNEIFORM SIGN TUR GUNU;Lo;0;L;;;;N;;;;;
 12A86;PROTO-CUNEIFORM SIGN TUR3-A;Lo;0;L;;;;N;;;;;
 12A87;PROTO-CUNEIFORM SIGN TUR3-A NUTILLU;Lo;0;L;;;;N;;;;;
 12A88;PROTO-CUNEIFORM SIGN TUR3-B;Lo;0;L;;;;N;;;;;
 12A89;PROTO-CUNEIFORM SIGN TUR3-C;Lo;0;L;;;;N;;;;;
 12A8A;PROTO-CUNEIFORM SIGN U4;Lo;0;L;;;;N;;;;;
 12A8B;PROTO-CUNEIFORM SIGN U4 TENU;Lo;0;L;;;;N;;;;;
 12A8C;PROTO-CUNEIFORM SIGN U8;Lo;0;L;;;;N;;;;;
 12A8D;PROTO-CUNEIFORM SIGN U8 VARIANT 1;Lo;0;L;;;;N;;;;;
 12A8E;PROTO-CUNEIFORM SIGN U8 VARIANT 2;Lo;0;L;;;;N;;;;;

12A8F;PROTO-CUNEIFORM SIGN U8 VARIANT 3;Lo;0;L;;;;;N;;;;;
 12A90;PROTO-CUNEIFORM SIGN U2-A;Lo;0;L;;;;;N;;;;;
 12A91;PROTO-CUNEIFORM SIGN U2-B;Lo;0;L;;;;;N;;;;;
 12A92;PROTO-CUNEIFORM SIGN U2-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A93;PROTO-CUNEIFORM SIGN U2-B VARIANT 2;Lo;0;L;;;;;N;;;;;
 12A94;PROTO-CUNEIFORM SIGN U2-C;Lo;0;L;;;;;N;;;;;
 12A95;PROTO-CUNEIFORM SIGN UB;Lo;0;L;;;;;N;;;;;
 12A96;PROTO-CUNEIFORM SIGN UBI-A;Lo;0;L;;;;;N;;;;;
 12A97;PROTO-CUNEIFORM SIGN UBI-C;Lo;0;L;;;;;N;;;;;
 12A98;PROTO-CUNEIFORM SIGN UBI-C VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A99;PROTO-CUNEIFORM SIGN UD5-A;Lo;0;L;;;;;N;;;;;
 12A9A;PROTO-CUNEIFORM SIGN UD5-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12A9B;PROTO-CUNEIFORM SIGN UD5-A VARIANT 2;Lo;0;L;;;;;N;;;;;
 12A9C;PROTO-CUNEIFORM SIGN UD5-A GUNU;Lo;0;L;;;;;N;;;;;
 12A9D;PROTO-CUNEIFORM SIGN UD5-B;Lo;0;L;;;;;N;;;;;
 12A9E;PROTO-CUNEIFORM SIGN UD5-C;Lo;0;L;;;;;N;;;;;
 12A9F;PROTO-CUNEIFORM SIGN UDU-A;Lo;0;L;;;;;N;;;;;
 12AA0;PROTO-CUNEIFORM SIGN UDU-B;Lo;0;L;;;;;N;;;;;
 12AA1;PROTO-CUNEIFORM SIGN UDU-C;Lo;0;L;;;;;N;;;;;
 12AA2;PROTO-CUNEIFORM SIGN UDUNITA-A;Lo;0;L;;;;;N;;;;;
 12AA3;PROTO-CUNEIFORM SIGN UDUNITA-B;Lo;0;L;;;;;N;;;;;
 12AA4;PROTO-CUNEIFORM SIGN UDUNITA-C;Lo;0;L;;;;;N;;;;;
 12AA5;PROTO-CUNEIFORM SIGN UET2_405;Lo;0;L;;;;;N;;;;;
 12AA6;PROTO-CUNEIFORM SIGN UH;Lo;0;L;;;;;N;;;;;
 12AA7;PROTO-CUNEIFORM SIGN UH3-A;Lo;0;L;;;;;N;;;;;
 12AA8;PROTO-CUNEIFORM SIGN UH3-A TENU;Lo;0;L;;;;;N;;;;;
 12AA9;PROTO-CUNEIFORM SIGN UH3-B;Lo;0;L;;;;;N;;;;;
 12AAA;PROTO-CUNEIFORM SIGN UKKIN-A;Lo;0;L;;;;;N;;;;;
 12AAB;PROTO-CUNEIFORM SIGN UKKIN-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12AAC;PROTO-CUNEIFORM SIGN UKKIN-B;Lo;0;L;;;;;N;;;;;
 12AAD;PROTO-CUNEIFORM SIGN UKKIN-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12AAE;PROTO-CUNEIFORM SIGN UKKIN-C;Lo;0;L;;;;;N;;;;;
 12AAF;PROTO-CUNEIFORM SIGN UMBIN-A;Lo;0;L;;;;;N;;;;;
 12AB0;PROTO-CUNEIFORM SIGN UMBIN-B1;Lo;0;L;;;;;N;;;;;
 12AB1;PROTO-CUNEIFORM SIGN UMBIN-B2;Lo;0;L;;;;;N;;;;;
 12AB2;PROTO-CUNEIFORM SIGN UMBIN-C;Lo;0;L;;;;;N;;;;;
 12AB3;PROTO-CUNEIFORM SIGN UMUN2;Lo;0;L;;;;;N;;;;;
 12AB4;PROTO-CUNEIFORM SIGN UMUN2 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12AB5;PROTO-CUNEIFORM SIGN UNUG-A;Lo;0;L;;;;;N;;;;;
 12AB6;PROTO-CUNEIFORM SIGN UNUG-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12AB7;PROTO-CUNEIFORM SIGN UNUG-A SHESSHIG;Lo;0;L;;;;;N;;;;;
 12AB8;PROTO-CUNEIFORM SIGN UNUG-B;Lo;0;L;;;;;N;;;;;
 12AB9;PROTO-CUNEIFORM SIGN UNUG-C;Lo;0;L;;;;;N;;;;;
 12ABA;PROTO-CUNEIFORM SIGN UR-A;Lo;0;L;;;;;N;;;;;
 12ABB;PROTO-CUNEIFORM SIGN UR-A GUNU;Lo;0;L;;;;;N;;;;;
 12ABC;PROTO-CUNEIFORM SIGN UR-B;Lo;0;L;;;;;N;;;;;
 12ABD;PROTO-CUNEIFORM SIGN UR-C;Lo;0;L;;;;;N;;;;;
 12ABE;PROTO-CUNEIFORM SIGN UR2;Lo;0;L;;;;;N;;;;;
 12ABF;PROTO-CUNEIFORM SIGN UR3-A1;Lo;0;L;;;;;N;;;;;
 12AC0;PROTO-CUNEIFORM SIGN UR3-A1 VARIANT 1;Lo;0;L;;;;;N;;;;;

12AC1;PROTO-CUNEIFORM SIGN UR3-A2;Lo;0;L;;;;N;;;;;
 12AC2;PROTO-CUNEIFORM SIGN UR3-A3;Lo;0;L;;;;N;;;;;
 12AC3;PROTO-CUNEIFORM SIGN UR3-B1;Lo;0;L;;;;N;;;;;
 12AC4;PROTO-CUNEIFORM SIGN UR3-B2;Lo;0;L;;;;N;;;;;
 12AC5;PROTO-CUNEIFORM SIGN UR4-A;Lo;0;L;;;;N;;;;;
 12AC6;PROTO-CUNEIFORM SIGN UR4-B;Lo;0;L;;;;N;;;;;
 12AC7;PROTO-CUNEIFORM SIGN UR4-C;Lo;0;L;;;;N;;;;;
 12AC8;PROTO-CUNEIFORM SIGN UR5-A;Lo;0;L;;;;N;;;;;
 12AC9;PROTO-CUNEIFORM SIGN UR5-B;Lo;0;L;;;;N;;;;;
 12ACA;PROTO-CUNEIFORM SIGN URI;Lo;0;L;;;;N;;;;;
 12ACB;PROTO-CUNEIFORM SIGN URI2;Lo;0;L;;;;N;;;;;
 12ACC;PROTO-CUNEIFORM SIGN URI5;Lo;0;L;;;;N;;;;;
 12ACD;PROTO-CUNEIFORM SIGN URI3-A;Lo;0;L;;;;N;;;;;
 12ACE;PROTO-CUNEIFORM SIGN URI3-A VARIANT 1;Lo;0;L;;;;N;;;;;
 12ACF;PROTO-CUNEIFORM SIGN URI3-B;Lo;0;L;;;;N;;;;;
 12AD0;PROTO-CUNEIFORM SIGN URU-A1;Lo;0;L;;;;N;;;;;
 12AD1;PROTO-CUNEIFORM SIGN URU-A1 NUTILLU;Lo;0;L;;;;N;;;;;
 12AD2;PROTO-CUNEIFORM SIGN URU-A2;Lo;0;L;;;;N;;;;;
 12AD3;PROTO-CUNEIFORM SIGN URU-B1;Lo;0;L;;;;N;;;;;
 12AD4;PROTO-CUNEIFORM SIGN URU-B2;Lo;0;L;;;;N;;;;;
 12AD5;PROTO-CUNEIFORM SIGN URU-C;Lo;0;L;;;;N;;;;;
 12AD6;PROTO-CUNEIFORM SIGN URUDU GUNU-A;Lo;0;L;;;;N;;;;;
 12AD7;PROTO-CUNEIFORM SIGN URUDU GUNU-B;Lo;0;L;;;;N;;;;;
 12AD8;PROTO-CUNEIFORM SIGN URUDU GUNU-C;Lo;0;L;;;;N;;;;;
 12AD9;PROTO-CUNEIFORM SIGN URUDU GUNU-D;Lo;0;L;;;;N;;;;;
 12ADA;PROTO-CUNEIFORM SIGN URUDU-A;Lo;0;L;;;;N;;;;;
 12ADB;PROTO-CUNEIFORM SIGN URUDU-A VARIANT 1;Lo;0;L;;;;N;;;;;
 12ADC;PROTO-CUNEIFORM SIGN URUDU-A VARIANT 2;Lo;0;L;;;;N;;;;;
 12ADD;PROTO-CUNEIFORM SIGN URUDU-C;Lo;0;L;;;;N;;;;;
 12ADE;PROTO-CUNEIFORM SIGN URUDU-D;Lo;0;L;;;;N;;;;;
 12ADF;PROTO-CUNEIFORM SIGN USZ-A;Lo;0;L;;;;N;;;;;
 12AE0;PROTO-CUNEIFORM SIGN USZ-B;Lo;0;L;;;;N;;;;;
 12AE1;PROTO-CUNEIFORM SIGN USZ-B VARIANT 1;Lo;0;L;;;;N;;;;;
 12AE2;PROTO-CUNEIFORM SIGN USZUMGAL;Lo;0;L;;;;N;;;;;
 12AE3;PROTO-CUNEIFORM SIGN USZUR3-A;Lo;0;L;;;;N;;;;;
 12AE4;PROTO-CUNEIFORM SIGN USZUR3-B1;Lo;0;L;;;;N;;;;;
 12AE5;PROTO-CUNEIFORM SIGN USZUR3-B2;Lo;0;L;;;;N;;;;;
 12AE6;PROTO-CUNEIFORM SIGN UTUA-A;Lo;0;L;;;;N;;;;;
 12AE7;PROTO-CUNEIFORM SIGN UTUA-A TENU;Lo;0;L;;;;N;;;;;
 12AE8;PROTO-CUNEIFORM SIGN UTUA-B;Lo;0;L;;;;N;;;;;
 12AE9;PROTO-CUNEIFORM SIGN UTUA-B VARIANT 1;Lo;0;L;;;;N;;;;;
 12AEA;PROTO-CUNEIFORM SIGN UTUL-A;Lo;0;L;;;;N;;;;;
 12AEB;PROTO-CUNEIFORM SIGN UTUL-B;Lo;0;L;;;;N;;;;;
 12AEC;PROTO-CUNEIFORM SIGN UTUL-C;Lo;0;L;;;;N;;;;;
 12AED;PROTO-CUNEIFORM SIGN UTUL-D;Lo;0;L;;;;N;;;;;
 12AEE;PROTO-CUNEIFORM SIGN UZU;Lo;0;L;;;;N;;;;;
 12AEF;PROTO-CUNEIFORM SIGN ZA-X;Lo;0;L;;;;N;;;;;
 12AF0;PROTO-CUNEIFORM SIGN ZABALAM-A;Lo;0;L;;;;N;;;;;
 12AF1;PROTO-CUNEIFORM SIGN ZABALAM-B;Lo;0;L;;;;N;;;;;
 12AF2;PROTO-CUNEIFORM SIGN ZADIM;Lo;0;L;;;;N;;;;;

12AF3;PROTO-CUNEIFORM SIGN ZAG-A;Lo;0;L;;;;;N;;;;;
 12AF4;PROTO-CUNEIFORM SIGN ZAG-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12AF5;PROTO-CUNEIFORM SIGN ZAG-B;Lo;0;L;;;;;N;;;;;
 12AF6;PROTO-CUNEIFORM SIGN ZAG-C;Lo;0;L;;;;;N;;;;;
 12AF7;PROTO-CUNEIFORM SIGN ZAR-A;Lo;0;L;;;;;N;;;;;
 12AF8;PROTO-CUNEIFORM SIGN ZAR-B1;Lo;0;L;;;;;N;;;;;
 12AF9;PROTO-CUNEIFORM SIGN ZAR-B2;Lo;0;L;;;;;N;;;;;
 12AFA;PROTO-CUNEIFORM SIGN ZAR-C;Lo;0;L;;;;;N;;;;;
 12AFB;PROTO-CUNEIFORM SIGN ZATU620;Lo;0;L;;;;;N;;;;;
 12AFC;PROTO-CUNEIFORM SIGN ZATU622;Lo;0;L;;;;;N;;;;;
 12AFD;PROTO-CUNEIFORM SIGN ZATU623;Lo;0;L;;;;;N;;;;;
 12AFE;PROTO-CUNEIFORM SIGN ZATU623 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12AFF;PROTO-CUNEIFORM SIGN ZATU623 VARIANT 2;Lo;0;L;;;;;N;;;;;
 12B00;PROTO-CUNEIFORM SIGN ZATU625;Lo;0;L;;;;;N;;;;;
 12B01;PROTO-CUNEIFORM SIGN ZATU625 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B02;PROTO-CUNEIFORM SIGN ZATU627;Lo;0;L;;;;;N;;;;;
 12B03;PROTO-CUNEIFORM SIGN ZATU629;Lo;0;L;;;;;N;;;;;
 12B04;PROTO-CUNEIFORM SIGN ZATU629 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B05;PROTO-CUNEIFORM SIGN ZATU630;Lo;0;L;;;;;N;;;;;
 12B06;PROTO-CUNEIFORM SIGN ZATU631;Lo;0;L;;;;;N;;;;;
 12B07;PROTO-CUNEIFORM SIGN ZATU634;Lo;0;L;;;;;N;;;;;
 12B08;PROTO-CUNEIFORM SIGN ZATU635;Lo;0;L;;;;;N;;;;;
 12B09;PROTO-CUNEIFORM SIGN ZATU636;Lo;0;L;;;;;N;;;;;
 12B0A;PROTO-CUNEIFORM SIGN ZATU636 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B0B;PROTO-CUNEIFORM SIGN ZATU637;Lo;0;L;;;;;N;;;;;
 12B0C;PROTO-CUNEIFORM SIGN ZATU639;Lo;0;L;;;;;N;;;;;
 12B0D;PROTO-CUNEIFORM SIGN ZATU640;Lo;0;L;;;;;N;;;;;
 12B0E;PROTO-CUNEIFORM SIGN ZATU641;Lo;0;L;;;;;N;;;;;
 12B0F;PROTO-CUNEIFORM SIGN ZATU642;Lo;0;L;;;;;N;;;;;
 12B10;PROTO-CUNEIFORM SIGN ZATU643;Lo;0;L;;;;;N;;;;;
 12B11;PROTO-CUNEIFORM SIGN ZATU646;Lo;0;L;;;;;N;;;;;
 12B12;PROTO-CUNEIFORM SIGN ZATU647;Lo;0;L;;;;;N;;;;;
 12B13;PROTO-CUNEIFORM SIGN ZATU647 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B14;PROTO-CUNEIFORM SIGN ZATU648;Lo;0;L;;;;;N;;;;;
 12B15;PROTO-CUNEIFORM SIGN ZATU649;Lo;0;L;;;;;N;;;;;
 12B16;PROTO-CUNEIFORM SIGN ZATU649 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B17;PROTO-CUNEIFORM SIGN ZATU650;Lo;0;L;;;;;N;;;;;
 12B18;PROTO-CUNEIFORM SIGN ZATU651;Lo;0;L;;;;;N;;;;;
 12B19;PROTO-CUNEIFORM SIGN ZATU651 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B1A;PROTO-CUNEIFORM SIGN ZATU651 VARIANT 2;Lo;0;L;;;;;N;;;;;
 12B1B;PROTO-CUNEIFORM SIGN ZATU651 GUNU;Lo;0;L;;;;;N;;;;;
 12B1C;PROTO-CUNEIFORM SIGN ZATU659;Lo;0;L;;;;;N;;;;;
 12B1D;PROTO-CUNEIFORM SIGN ZATU662;Lo;0;L;;;;;N;;;;;
 12B1E;PROTO-CUNEIFORM SIGN ZATU662 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B1F;PROTO-CUNEIFORM SIGN ZATU662 VARIANT 2;Lo;0;L;;;;;N;;;;;
 12B20;PROTO-CUNEIFORM SIGN ZATU662 VARIANT 3;Lo;0;L;;;;;N;;;;;
 12B21;PROTO-CUNEIFORM SIGN ZATU664;Lo;0;L;;;;;N;;;;;
 12B22;PROTO-CUNEIFORM SIGN ZATU665;Lo;0;L;;;;;N;;;;;
 12B23;PROTO-CUNEIFORM SIGN ZATU666;Lo;0;L;;;;;N;;;;;
 12B24;PROTO-CUNEIFORM SIGN ZATU667;Lo;0;L;;;;;N;;;;;

12B25;PROTO-CUNEIFORM SIGN ZATU668;Lo;0;L;;;;;N;;;;;
 12B26;PROTO-CUNEIFORM SIGN ZATU669;Lo;0;L;;;;;N;;;;;
 12B27;PROTO-CUNEIFORM SIGN ZATU670;Lo;0;L;;;;;N;;;;;
 12B28;PROTO-CUNEIFORM SIGN ZATU672;Lo;0;L;;;;;N;;;;;
 12B29;PROTO-CUNEIFORM SIGN ZATU674;Lo;0;L;;;;;N;;;;;
 12B2A;PROTO-CUNEIFORM SIGN ZATU678;Lo;0;L;;;;;N;;;;;
 12B2B;PROTO-CUNEIFORM SIGN ZATU679;Lo;0;L;;;;;N;;;;;
 12B2C;PROTO-CUNEIFORM SIGN ZATU681;Lo;0;L;;;;;N;;;;;
 12B2D;PROTO-CUNEIFORM SIGN ZATU682;Lo;0;L;;;;;N;;;;;
 12B2E;PROTO-CUNEIFORM SIGN ZATU683 TENU;Lo;0;L;;;;;N;;;;;
 12B2F;PROTO-CUNEIFORM SIGN ZATU684;Lo;0;L;;;;;N;;;;;
 12B30;PROTO-CUNEIFORM SIGN ZATU685;Lo;0;L;;;;;N;;;;;
 12B31;PROTO-CUNEIFORM SIGN ZATU687;Lo;0;L;;;;;N;;;;;
 12B32;PROTO-CUNEIFORM SIGN ZATU689;Lo;0;L;;;;;N;;;;;
 12B33;PROTO-CUNEIFORM SIGN ZATU690;Lo;0;L;;;;;N;;;;;
 12B34;PROTO-CUNEIFORM SIGN ZATU691;Lo;0;L;;;;;N;;;;;
 12B35;PROTO-CUNEIFORM SIGN ZATU692;Lo;0;L;;;;;N;;;;;
 12B36;PROTO-CUNEIFORM SIGN ZATU693;Lo;0;L;;;;;N;;;;;
 12B37;PROTO-CUNEIFORM SIGN ZATU693 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B38;PROTO-CUNEIFORM SIGN ZATU693 VARIANT 2;Lo;0;L;;;;;N;;;;;
 12B39;PROTO-CUNEIFORM SIGN ZATU693 TENU;Lo;0;L;;;;;N;;;;;
 12B3A;PROTO-CUNEIFORM SIGN ZATU695;Lo;0;L;;;;;N;;;;;
 12B3B;PROTO-CUNEIFORM SIGN ZATU696;Lo;0;L;;;;;N;;;;;
 12B3C;PROTO-CUNEIFORM SIGN ZATU700;Lo;0;L;;;;;N;;;;;
 12B3D;PROTO-CUNEIFORM SIGN ZATU701;Lo;0;L;;;;;N;;;;;
 12B3E;PROTO-CUNEIFORM SIGN ZATU702;Lo;0;L;;;;;N;;;;;
 12B3F;PROTO-CUNEIFORM SIGN ZATU703;Lo;0;L;;;;;N;;;;;
 12B40;PROTO-CUNEIFORM SIGN ZATU704;Lo;0;L;;;;;N;;;;;
 12B41;PROTO-CUNEIFORM SIGN ZATU705;Lo;0;L;;;;;N;;;;;
 12B42;PROTO-CUNEIFORM SIGN ZATU706;Lo;0;L;;;;;N;;;;;
 12B43;PROTO-CUNEIFORM SIGN ZATU708;Lo;0;L;;;;;N;;;;;
 12B44;PROTO-CUNEIFORM SIGN ZATU709;Lo;0;L;;;;;N;;;;;
 12B45;PROTO-CUNEIFORM SIGN ZATU710;Lo;0;L;;;;;N;;;;;
 12B46;PROTO-CUNEIFORM SIGN ZATU710 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B47;PROTO-CUNEIFORM SIGN ZATU711;Lo;0;L;;;;;N;;;;;
 12B48;PROTO-CUNEIFORM SIGN ZATU711 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B49;PROTO-CUNEIFORM SIGN ZATU713;Lo;0;L;;;;;N;;;;;
 12B4A;PROTO-CUNEIFORM SIGN ZATU714;Lo;0;L;;;;;N;;;;;
 12B4B;PROTO-CUNEIFORM SIGN ZATU717;Lo;0;L;;;;;N;;;;;
 12B4C;PROTO-CUNEIFORM SIGN ZATU718;Lo;0;L;;;;;N;;;;;
 12B4D;PROTO-CUNEIFORM SIGN ZATU719;Lo;0;L;;;;;N;;;;;
 12B4E;PROTO-CUNEIFORM SIGN ZATU720;Lo;0;L;;;;;N;;;;;
 12B4F;PROTO-CUNEIFORM SIGN ZATU721;Lo;0;L;;;;;N;;;;;
 12B50;PROTO-CUNEIFORM SIGN ZATU722;Lo;0;L;;;;;N;;;;;
 12B51;PROTO-CUNEIFORM SIGN ZATU723;Lo;0;L;;;;;N;;;;;
 12B52;PROTO-CUNEIFORM SIGN ZATU724;Lo;0;L;;;;;N;;;;;
 12B53;PROTO-CUNEIFORM SIGN ZATU725;Lo;0;L;;;;;N;;;;;
 12B54;PROTO-CUNEIFORM SIGN ZATU725 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B55;PROTO-CUNEIFORM SIGN ZATU727;Lo;0;L;;;;;N;;;;;
 12B56;PROTO-CUNEIFORM SIGN ZATU728;Lo;0;L;;;;;N;;;;;

12B57;PROTO-CUNEIFORM SIGN ZATU729;Lo;0;L;;;;;N;;;;;
 12B58;PROTO-CUNEIFORM SIGN ZATU729 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B59;PROTO-CUNEIFORM SIGN ZATU730;Lo;0;L;;;;;N;;;;;
 12B5A;PROTO-CUNEIFORM SIGN ZATU732;Lo;0;L;;;;;N;;;;;
 12B5B;PROTO-CUNEIFORM SIGN ZATU733;Lo;0;L;;;;;N;;;;;
 12B5C;PROTO-CUNEIFORM SIGN ZATU734;Lo;0;L;;;;;N;;;;;
 12B5D;PROTO-CUNEIFORM SIGN ZATU737;Lo;0;L;;;;;N;;;;;
 12B5E;PROTO-CUNEIFORM SIGN ZATU737 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B5F;PROTO-CUNEIFORM SIGN ZATU737 VARIANT 2;Lo;0;L;;;;;N;;;;;
 12B60;PROTO-CUNEIFORM SIGN ZATU750;Lo;0;L;;;;;N;;;;;
 12B61;PROTO-CUNEIFORM SIGN ZATU750 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B62;PROTO-CUNEIFORM SIGN ZATU750 VARIANT 2;Lo;0;L;;;;;N;;;;;
 12B63;PROTO-CUNEIFORM SIGN ZATU750 VARIANT 3;Lo;0;L;;;;;N;;;;;
 12B64;PROTO-CUNEIFORM SIGN ZATU752;Lo;0;L;;;;;N;;;;;
 12B65;PROTO-CUNEIFORM SIGN ZATU752 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B66;PROTO-CUNEIFORM SIGN ZATU753;Lo;0;L;;;;;N;;;;;
 12B67;PROTO-CUNEIFORM SIGN ZATU754;Lo;0;L;;;;;N;;;;;
 12B68;PROTO-CUNEIFORM SIGN ZATU756;Lo;0;L;;;;;N;;;;;
 12B69;PROTO-CUNEIFORM SIGN ZATU756 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B6A;PROTO-CUNEIFORM SIGN ZATU757;Lo;0;L;;;;;N;;;;;
 12B6B;PROTO-CUNEIFORM SIGN ZATU757 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B6C;PROTO-CUNEIFORM SIGN ZATU758;Lo;0;L;;;;;N;;;;;
 12B6D;PROTO-CUNEIFORM SIGN ZATU759;Lo;0;L;;;;;N;;;;;
 12B6E;PROTO-CUNEIFORM SIGN ZATU759 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B6F;PROTO-CUNEIFORM SIGN ZATU761;Lo;0;L;;;;;N;;;;;
 12B70;PROTO-CUNEIFORM SIGN ZATU764;Lo;0;L;;;;;N;;;;;
 12B71;PROTO-CUNEIFORM SIGN ZATU765;Lo;0;L;;;;;N;;;;;
 12B72;PROTO-CUNEIFORM SIGN ZATU766;Lo;0;L;;;;;N;;;;;
 12B73;PROTO-CUNEIFORM SIGN ZATU767;Lo;0;L;;;;;N;;;;;
 12B74;PROTO-CUNEIFORM SIGN ZATU768;Lo;0;L;;;;;N;;;;;
 12B75;PROTO-CUNEIFORM SIGN ZATU769;Lo;0;L;;;;;N;;;;;
 12B76;PROTO-CUNEIFORM SIGN ZATU771;Lo;0;L;;;;;N;;;;;
 12B77;PROTO-CUNEIFORM SIGN ZATU772;Lo;0;L;;;;;N;;;;;
 12B78;PROTO-CUNEIFORM SIGN ZATU774;Lo;0;L;;;;;N;;;;;
 12B79;PROTO-CUNEIFORM SIGN ZATU775;Lo;0;L;;;;;N;;;;;
 12B7A;PROTO-CUNEIFORM SIGN ZATU776;Lo;0;L;;;;;N;;;;;
 12B7B;PROTO-CUNEIFORM SIGN ZATU776 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B7C;PROTO-CUNEIFORM SIGN ZATU777;Lo;0;L;;;;;N;;;;;
 12B7D;PROTO-CUNEIFORM SIGN ZATU777 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12B7E;PROTO-CUNEIFORM SIGN ZATU777 VARIANT 2;Lo;0;L;;;;;N;;;;;
 12B7F;PROTO-CUNEIFORM SIGN ZATU778;Lo;0;L;;;;;N;;;;;
 12B80;PROTO-CUNEIFORM SIGN ZATU779;Lo;0;L;;;;;N;;;;;
 12B81;PROTO-CUNEIFORM SIGN ZATU780;Lo;0;L;;;;;N;;;;;
 12B82;PROTO-CUNEIFORM SIGN ZATU781;Lo;0;L;;;;;N;;;;;
 12B83;PROTO-CUNEIFORM SIGN ZATU782;Lo;0;L;;;;;N;;;;;
 12B84;PROTO-CUNEIFORM SIGN ZATU783;Lo;0;L;;;;;N;;;;;
 12B85;PROTO-CUNEIFORM SIGN ZATU784;Lo;0;L;;;;;N;;;;;
 12B86;PROTO-CUNEIFORM SIGN ZATU785;Lo;0;L;;;;;N;;;;;
 12B87;PROTO-CUNEIFORM SIGN ZATU786;Lo;0;L;;;;;N;;;;;
 12B88;PROTO-CUNEIFORM SIGN ZATU787;Lo;0;L;;;;;N;;;;;

12B89;PROTO-CUNEIFORM SIGN ZATU788;Lo;0;L;;;;;N;;;;;
 12B8A;PROTO-CUNEIFORM SIGN ZATU789;Lo;0;L;;;;;N;;;;;
 12B8B;PROTO-CUNEIFORM SIGN ZATU791;Lo;0;L;;;;;N;;;;;
 12B8C;PROTO-CUNEIFORM SIGN ZATU792;Lo;0;L;;;;;N;;;;;
 12B8D;PROTO-CUNEIFORM SIGN ZATU795;Lo;0;L;;;;;N;;;;;
 12B8E;PROTO-CUNEIFORM SIGN ZATU797;Lo;0;L;;;;;N;;;;;
 12B8F;PROTO-CUNEIFORM SIGN ZATU798;Lo;0;L;;;;;N;;;;;
 12B90;PROTO-CUNEIFORM SIGN ZATU799;Lo;0;L;;;;;N;;;;;
 12B91;PROTO-CUNEIFORM SIGN ZATU800;Lo;0;L;;;;;N;;;;;
 12B92;PROTO-CUNEIFORM SIGN ZATU801;Lo;0;L;;;;;N;;;;;
 12B93;PROTO-CUNEIFORM SIGN ZATU802;Lo;0;L;;;;;N;;;;;
 12B94;PROTO-CUNEIFORM SIGN ZATU803;Lo;0;L;;;;;N;;;;;
 12B95;PROTO-CUNEIFORM SIGN ZATU804;Lo;0;L;;;;;N;;;;;
 12B96;PROTO-CUNEIFORM SIGN ZATU805;Lo;0;L;;;;;N;;;;;
 12B97;PROTO-CUNEIFORM SIGN ZATU806;Lo;0;L;;;;;N;;;;;
 12B98;PROTO-CUNEIFORM SIGN ZATU807;Lo;0;L;;;;;N;;;;;
 12B99;PROTO-CUNEIFORM SIGN ZATU808;Lo;0;L;;;;;N;;;;;
 12B9A;PROTO-CUNEIFORM SIGN ZATU809;Lo;0;L;;;;;N;;;;;
 12B9B;PROTO-CUNEIFORM SIGN ZATU810;Lo;0;L;;;;;N;;;;;
 12B9C;PROTO-CUNEIFORM SIGN ZATU811;Lo;0;L;;;;;N;;;;;
 12B9D;PROTO-CUNEIFORM SIGN ZATU812;Lo;0;L;;;;;N;;;;;
 12B9E;PROTO-CUNEIFORM SIGN ZATU813;Lo;0;L;;;;;N;;;;;
 12B9F;PROTO-CUNEIFORM SIGN ZATU814;Lo;0;L;;;;;N;;;;;
 12BA0;PROTO-CUNEIFORM SIGN ZATU815;Lo;0;L;;;;;N;;;;;
 12BA1;PROTO-CUNEIFORM SIGN ZATU817;Lo;0;L;;;;;N;;;;;
 12BA2;PROTO-CUNEIFORM SIGN ZATU818;Lo;0;L;;;;;N;;;;;
 12BA3;PROTO-CUNEIFORM SIGN ZATU819;Lo;0;L;;;;;N;;;;;
 12BA4;PROTO-CUNEIFORM SIGN ZATU820;Lo;0;L;;;;;N;;;;;
 12BA5;PROTO-CUNEIFORM SIGN ZATU821;Lo;0;L;;;;;N;;;;;
 12BA6;PROTO-CUNEIFORM SIGN ZATU822;Lo;0;L;;;;;N;;;;;
 12BA7;PROTO-CUNEIFORM SIGN ZATU823;Lo;0;L;;;;;N;;;;;
 12BA8;PROTO-CUNEIFORM SIGN ZATU824;Lo;0;L;;;;;N;;;;;
 12BA9;PROTO-CUNEIFORM SIGN ZATU825;Lo;0;L;;;;;N;;;;;
 12BAA;PROTO-CUNEIFORM SIGN ZATU826;Lo;0;L;;;;;N;;;;;
 12BAB;PROTO-CUNEIFORM SIGN ZATU829;Lo;0;L;;;;;N;;;;;
 12BAC;PROTO-CUNEIFORM SIGN ZATU831;Lo;0;L;;;;;N;;;;;
 12BAD;PROTO-CUNEIFORM SIGN ZATU831 GUNU;Lo;0;L;;;;;N;;;;;
 12BAE;PROTO-CUNEIFORM SIGN ZATU832;Lo;0;L;;;;;N;;;;;
 12BAF;PROTO-CUNEIFORM SIGN ZATU833;Lo;0;L;;;;;N;;;;;
 12BB0;PROTO-CUNEIFORM SIGN ZATU834;Lo;0;L;;;;;N;;;;;
 12BB1;PROTO-CUNEIFORM SIGN ZATU835;Lo;0;L;;;;;N;;;;;
 12BB2;PROTO-CUNEIFORM SIGN ZATU836;Lo;0;L;;;;;N;;;;;
 12BB3;PROTO-CUNEIFORM SIGN ZATU838;Lo;0;L;;;;;N;;;;;
 12BB4;PROTO-CUNEIFORM SIGN ZATU839;Lo;0;L;;;;;N;;;;;
 12BB5;PROTO-CUNEIFORM SIGN ZATU839 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12BB6;PROTO-CUNEIFORM SIGN ZATU840;Lo;0;L;;;;;N;;;;;
 12BB7;PROTO-CUNEIFORM SIGN ZATU841;Lo;0;L;;;;;N;;;;;
 12BB8;PROTO-CUNEIFORM SIGN ZATU842;Lo;0;L;;;;;N;;;;;
 12BB9;PROTO-CUNEIFORM SIGN ZATU843;Lo;0;L;;;;;N;;;;;
 12BBA;PROTO-CUNEIFORM SIGN ZATU844;Lo;0;L;;;;;N;;;;;

12BBB;PROTO-CUNEIFORM SIGN ZATU845;Lo;0;L;;;;;N;;;;;
 12BBC;PROTO-CUNEIFORM SIGN ZATU846;Lo;0;L;;;;;N;;;;;
 12BBD;PROTO-CUNEIFORM SIGN ZATU847;Lo;0;L;;;;;N;;;;;
 12BBE;PROTO-CUNEIFORM SIGN ZATU848;Lo;0;L;;;;;N;;;;;
 12BBF;PROTO-CUNEIFORM SIGN ZATU849;Lo;0;L;;;;;N;;;;;
 12BC0;PROTO-CUNEIFORM SIGN ZATU850;Lo;0;L;;;;;N;;;;;
 12BC1;PROTO-CUNEIFORM SIGN ZATU851;Lo;0;L;;;;;N;;;;;
 12BC2;PROTO-CUNEIFORM SIGN ZATU852;Lo;0;L;;;;;N;;;;;
 12BC3;PROTO-CUNEIFORM SIGN ZATU853;Lo;0;L;;;;;N;;;;;
 12BC4;PROTO-CUNEIFORM SIGN ZATU854;Lo;0;L;;;;;N;;;;;
 12BC5;PROTO-CUNEIFORM SIGN ZATU855;Lo;0;L;;;;;N;;;;;
 12BC6;PROTO-CUNEIFORM SIGN ZATU621-A;Lo;0;L;;;;;N;;;;;
 12BC7;PROTO-CUNEIFORM SIGN ZATU621-B;Lo;0;L;;;;;N;;;;;
 12BC8;PROTO-CUNEIFORM SIGN ZATU621-C;Lo;0;L;;;;;N;;;;;
 12BC9;PROTO-CUNEIFORM SIGN ZATU621-D;Lo;0;L;;;;;N;;;;;
 12BCA;PROTO-CUNEIFORM SIGN ZATU624-A;Lo;0;L;;;;;N;;;;;
 12BCB;PROTO-CUNEIFORM SIGN ZATU624-B;Lo;0;L;;;;;N;;;;;
 12BCC;PROTO-CUNEIFORM SIGN ZATU624-C;Lo;0;L;;;;;N;;;;;
 12BCD;PROTO-CUNEIFORM SIGN ZATU626-A;Lo;0;L;;;;;N;;;;;
 12BCE;PROTO-CUNEIFORM SIGN ZATU626-B;Lo;0;L;;;;;N;;;;;
 12BCF;PROTO-CUNEIFORM SIGN ZATU626-C;Lo;0;L;;;;;N;;;;;
 12BD0;PROTO-CUNEIFORM SIGN ZATU628-A;Lo;0;L;;;;;N;;;;;
 12BD1;PROTO-CUNEIFORM SIGN ZATU628-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12BD2;PROTO-CUNEIFORM SIGN ZATU628-B;Lo;0;L;;;;;N;;;;;
 12BD3;PROTO-CUNEIFORM SIGN ZATU632-A;Lo;0;L;;;;;N;;;;;
 12BD4;PROTO-CUNEIFORM SIGN ZATU632-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12BD5;PROTO-CUNEIFORM SIGN ZATU632-B;Lo;0;L;;;;;N;;;;;
 12BD6;PROTO-CUNEIFORM SIGN ZATU632-C;Lo;0;L;;;;;N;;;;;
 12BD7;PROTO-CUNEIFORM SIGN ZATU633-A;Lo;0;L;;;;;N;;;;;
 12BD8;PROTO-CUNEIFORM SIGN ZATU633-B;Lo;0;L;;;;;N;;;;;
 12BD9;PROTO-CUNEIFORM SIGN ZATU644-A;Lo;0;L;;;;;N;;;;;
 12BDA;PROTO-CUNEIFORM SIGN ZATU644-B;Lo;0;L;;;;;N;;;;;
 12BDB;PROTO-CUNEIFORM SIGN ZATU675-A;Lo;0;L;;;;;N;;;;;
 12BDC;PROTO-CUNEIFORM SIGN ZATU675-B;Lo;0;L;;;;;N;;;;;
 12BDD;PROTO-CUNEIFORM SIGN ZATU675-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12BDE;PROTO-CUNEIFORM SIGN ZATU675-C;Lo;0;L;;;;;N;;;;;
 12BDF;PROTO-CUNEIFORM SIGN ZATU675-D;Lo;0;L;;;;;N;;;;;
 12BE0;PROTO-CUNEIFORM SIGN ZATU676-A;Lo;0;L;;;;;N;;;;;
 12BE1;PROTO-CUNEIFORM SIGN ZATU676-B;Lo;0;L;;;;;N;;;;;
 12BE2;PROTO-CUNEIFORM SIGN ZATU677-A;Lo;0;L;;;;;N;;;;;
 12BE3;PROTO-CUNEIFORM SIGN ZATU677-B;Lo;0;L;;;;;N;;;;;
 12BE4;PROTO-CUNEIFORM SIGN ZATU680-A1;Lo;0;L;;;;;N;;;;;
 12BE5;PROTO-CUNEIFORM SIGN ZATU680-A2;Lo;0;L;;;;;N;;;;;
 12BE6;PROTO-CUNEIFORM SIGN ZATU680-B;Lo;0;L;;;;;N;;;;;
 12BE7;PROTO-CUNEIFORM SIGN ZATU680-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12BE8;PROTO-CUNEIFORM SIGN ZATU680-D;Lo;0;L;;;;;N;;;;;
 12BE9;PROTO-CUNEIFORM SIGN ZATU680-E;Lo;0;L;;;;;N;;;;;
 12BEA;PROTO-CUNEIFORM SIGN ZATU683-A;Lo;0;L;;;;;N;;;;;
 12BEB;PROTO-CUNEIFORM SIGN ZATU683-B;Lo;0;L;;;;;N;;;;;
 12BEC;PROTO-CUNEIFORM SIGN ZATU686-A;Lo;0;L;;;;;N;;;;;

12BED;PROTO-CUNEIFORM SIGN ZATU686-B;Lo;0;L;;;;;N;;;;;
 12BEE;PROTO-CUNEIFORM SIGN ZATU686-C;Lo;0;L;;;;;N;;;;;
 12BEF;PROTO-CUNEIFORM SIGN ZATU688-A;Lo;0;L;;;;;N;;;;;
 12BF0;PROTO-CUNEIFORM SIGN ZATU688-B;Lo;0;L;;;;;N;;;;;
 12BF1;PROTO-CUNEIFORM SIGN ZATU694-A;Lo;0;L;;;;;N;;;;;
 12BF2;PROTO-CUNEIFORM SIGN ZATU694-B;Lo;0;L;;;;;N;;;;;
 12BF3;PROTO-CUNEIFORM SIGN ZATU694-C;Lo;0;L;;;;;N;;;;;
 12BF4;PROTO-CUNEIFORM SIGN ZATU694-C VARIANT 1;Lo;0;L;;;;;N;;;;;
 12BF5;PROTO-CUNEIFORM SIGN ZATU694-D;Lo;0;L;;;;;N;;;;;
 12BF6;PROTO-CUNEIFORM SIGN ZATU694-D TENU;Lo;0;L;;;;;N;;;;;
 12BF7;PROTO-CUNEIFORM SIGN ZATU697-A;Lo;0;L;;;;;N;;;;;
 12BF8;PROTO-CUNEIFORM SIGN ZATU697-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12BF9;PROTO-CUNEIFORM SIGN ZATU697-A VARIANT 2;Lo;0;L;;;;;N;;;;;
 12BFA;PROTO-CUNEIFORM SIGN ZATU697-A VARIANT 3;Lo;0;L;;;;;N;;;;;
 12BFB;PROTO-CUNEIFORM SIGN ZATU697-B;Lo;0;L;;;;;N;;;;;
 12BFC;PROTO-CUNEIFORM SIGN ZATU697-C;Lo;0;L;;;;;N;;;;;
 12BFD;PROTO-CUNEIFORM SIGN ZATU699-A;Lo;0;L;;;;;N;;;;;
 12BFE;PROTO-CUNEIFORM SIGN ZATU699-B;Lo;0;L;;;;;N;;;;;
 12BFF;PROTO-CUNEIFORM SIGN ZATU707-A;Lo;0;L;;;;;N;;;;;
 12C00;PROTO-CUNEIFORM SIGN ZATU707-B;Lo;0;L;;;;;N;;;;;
 12C01;PROTO-CUNEIFORM SIGN ZATU726-A;Lo;0;L;;;;;N;;;;;
 12C02;PROTO-CUNEIFORM SIGN ZATU726-C;Lo;0;L;;;;;N;;;;;
 12C03;PROTO-CUNEIFORM SIGN ZATU726-D;Lo;0;L;;;;;N;;;;;
 12C04;PROTO-CUNEIFORM SIGN ZATU735-A;Lo;0;L;;;;;N;;;;;
 12C05;PROTO-CUNEIFORM SIGN ZATU735-B;Lo;0;L;;;;;N;;;;;
 12C06;PROTO-CUNEIFORM SIGN ZATU735-B VARIANT 1;Lo;0;L;;;;;N;;;;;
 12C07;PROTO-CUNEIFORM SIGN ZATU735-B VARIANT 2;Lo;0;L;;;;;N;;;;;
 12C08;PROTO-CUNEIFORM SIGN ZATU735-C;Lo;0;L;;;;;N;;;;;
 12C09;PROTO-CUNEIFORM SIGN ZATU736-A;Lo;0;L;;;;;N;;;;;
 12C0A;PROTO-CUNEIFORM SIGN ZATU736-B;Lo;0;L;;;;;N;;;;;
 12C0B;PROTO-CUNEIFORM SIGN ZATU749-A;Lo;0;L;;;;;N;;;;;
 12C0C;PROTO-CUNEIFORM SIGN ZATU749-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12C0D;PROTO-CUNEIFORM SIGN ZATU749-A VARIANT 2;Lo;0;L;;;;;N;;;;;
 12C0E;PROTO-CUNEIFORM SIGN ZATU749-B;Lo;0;L;;;;;N;;;;;
 12C0F;PROTO-CUNEIFORM SIGN ZATU749-C;Lo;0;L;;;;;N;;;;;
 12C10;PROTO-CUNEIFORM SIGN ZATU751-A;Lo;0;L;;;;;N;;;;;
 12C11;PROTO-CUNEIFORM SIGN ZATU751-B;Lo;0;L;;;;;N;;;;;
 12C12;PROTO-CUNEIFORM SIGN ZATU755-A;Lo;0;L;;;;;N;;;;;
 12C13;PROTO-CUNEIFORM SIGN ZATU755-B;Lo;0;L;;;;;N;;;;;
 12C14;PROTO-CUNEIFORM SIGN ZATU762-A;Lo;0;L;;;;;N;;;;;
 12C15;PROTO-CUNEIFORM SIGN ZATU762-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12C16;PROTO-CUNEIFORM SIGN ZATU762-A VARIANT 2;Lo;0;L;;;;;N;;;;;
 12C17;PROTO-CUNEIFORM SIGN ZATU762-B;Lo;0;L;;;;;N;;;;;
 12C18;PROTO-CUNEIFORM SIGN ZATU773-A;Lo;0;L;;;;;N;;;;;
 12C19;PROTO-CUNEIFORM SIGN ZATU773-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12C1A;PROTO-CUNEIFORM SIGN ZATU773-B;Lo;0;L;;;;;N;;;;;
 12C1B;PROTO-CUNEIFORM SIGN ZATU837-A;Lo;0;L;;;;;N;;;;;
 12C1C;PROTO-CUNEIFORM SIGN ZATU837-B;Lo;0;L;;;;;N;;;;;
 12C1D;PROTO-CUNEIFORM SIGN ZI-A;Lo;0;L;;;;;N;;;;;
 12C1E;PROTO-CUNEIFORM SIGN ZI-A VARIANT 1;Lo;0;L;;;;;N;;;;;

12C1F;PROTO-CUNEIFORM SIGN ZI-B;Lo;0;L;;;;;N;;;;;
 12C20;PROTO-CUNEIFORM SIGN ZI-D;Lo;0;L;;;;;N;;;;;
 12C21;PROTO-CUNEIFORM SIGN ZUBI-A;Lo;0;L;;;;;N;;;;;
 12C22;PROTO-CUNEIFORM SIGN ZUBI-B;Lo;0;L;;;;;N;;;;;
 12C23;PROTO-CUNEIFORM SIGN 1 N57 BESIDE SZUBUR VARIANT 1;Lo;0;L;;;;;N;;;;;
 12C24;PROTO-CUNEIFORM SIGN 3 N58 BESIDE UR3-B1;Lo;0;L;;;;;N;;;;;
 12C25;PROTO-CUNEIFORM SIGN 4 N57 BESIDE NI-B;Lo;0;L;;;;;N;;;;;
 12C26;PROTO-CUNEIFORM SIGN 8 N57 BESIDE NI-B;Lo;0;L;;;;;N;;;;;
 12C27;PROTO-CUNEIFORM SIGN A CONTAINING 1 N14;Lo;0;L;;;;;N;;;;;
 12C28;PROTO-CUNEIFORM SIGN A CONTAINING AB2;Lo;0;L;;;;;N;;;;;
 12C29;PROTO-CUNEIFORM SIGN A CONTAINING AN;Lo;0;L;;;;;N;;;;;
 12C2A;PROTO-CUNEIFORM SIGN A CONTAINING EN-A;Lo;0;L;;;;;N;;;;;
 12C2B;PROTO-CUNEIFORM SIGN A CONTAINING SZUBUR;Lo;0;L;;;;;N;;;;;
 12C2C;PROTO-CUNEIFORM SIGN A CONTAINING ZATU672;Lo;0;L;;;;;N;;;;;
 12C2D;PROTO-CUNEIFORM SIGN AB2 CONTAINING 2 N14;Lo;0;L;;;;;N;;;;;
 12C2E;PROTO-CUNEIFORM SIGN AB2 CONTAINING 2 N14 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12C2F;PROTO-CUNEIFORM SIGN AMA-A CONTAINING E2-A;Lo;0;L;;;;;N;;;;;
 12C30;PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-A;Lo;0;L;;;;;N;;;;;
 12C31;PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-A VARIANT 1;Lo;0;L;;;;;N;;;;;
 12C32;PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-A NUTILLU;Lo;0;L;;;;;N;;;;;
 12C33;PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-B;Lo;0;L;;;;;N;;;;;
 12C34;PROTO-CUNEIFORM SIGN DAR-A CONTAINING A;Lo;0;L;;;;;N;;;;;
 12C35;PROTO-CUNEIFORM SIGN DARA3-C CONTAINING KAR2;Lo;0;L;;;;;N;;;;;
 12C36;PROTO-CUNEIFORM SIGN DARA3-C CONTAINING KAR2 BESIDE SZE-A;Lo;0;L;;;;;N;;;;;
 12C37;PROTO-CUNEIFORM SIGN DARA3-D CONTAINING KAR2;Lo;0;L;;;;;N;;;;;
 12C38;PROTO-CUNEIFORM SIGN DARA3-D CONTAINING KAR2 VARIANT 1;Lo;0;L;;;;;N;;;;;
 12C39;PROTO-CUNEIFORM SIGN DARA3-D CONTAINING KAR2 VARIANT 2;Lo;0;L;;;;;N;;;;;
 12C3A;PROTO-CUNEIFORM SIGN DARA3-D CONTAINING KAR2 BESIDE SZE-A;Lo;0;L;;;;;N;;;;;
 12C3B;PROTO-CUNEIFORM SIGN DIM-A CONTAINING GU;Lo;0;L;;;;;N;;;;;
 12C3C;PROTO-CUNEIFORM SIGN DU CONTAINING DISZ;Lo;0;L;;;;;N;;;;;
 12C3D;PROTO-CUNEIFORM SIGN DU6-A CONTAINING DISZ;Lo;0;L;;;;;N;;;;;
 12C3E;PROTO-CUNEIFORM SIGN DUB CONTAINING DISZ-A;Lo;0;L;;;;;N;;;;;
 12C3F;PROTO-CUNEIFORM SIGN DUB CONTAINING DISZ-B;Lo;0;L;;;;;N;;;;;
 12C40;PROTO-CUNEIFORM SIGN DUB CONTAINING DISZ-C;Lo;0;L;;;;;N;;;;;
 12C41;PROTO-CUNEIFORM SIGN E2-A CONTAINING 1 N57 TENU;Lo;0;L;;;;;N;;;;;
 12C42;PROTO-CUNEIFORM SIGN E2-A CONTAINING 3 N58;Lo;0;L;;;;;N;;;;;
 12C43;PROTO-CUNEIFORM SIGN E2-B CONTAINING 1 N57 TENU;Lo;0;L;;;;;N;;;;;
 12C44;PROTO-CUNEIFORM SIGN EN-C OVER EN-C;Lo;0;L;;;;;N;;;;;
 12C45;PROTO-CUNEIFORM SIGN ESZDA CONTAINING TAR;Lo;0;L;;;;;N;;;;;
 12C46;PROTO-CUNEIFORM SIGN GESZTU-A CONTAINING SZE-A TENU;Lo;0;L;;;;;N;;;;;
 12C47;PROTO-CUNEIFORM SIGN GI CONTAINING 1 N14;Lo;0;L;;;;;N;;;;;
 12C48;PROTO-CUNEIFORM SIGN GI CONTAINING 1 N58 TENU;Lo;0;L;;;;;N;;;;;
 12C49;PROTO-CUNEIFORM SIGN GIR3-A CONTAINING SZE-B;Lo;0;L;;;;;N;;;;;
 12C4A;PROTO-CUNEIFORM SIGN GIR3-C CONTAINING KAR2;Lo;0;L;;;;;N;;;;;
 12C4B;PROTO-CUNEIFORM SIGN GIR3-C CONTAINING SZE3;Lo;0;L;;;;;N;;;;;
 12C4C;PROTO-CUNEIFORM SIGN GISZ CONTAINING DIN BESIDE DIN-A;Lo;0;L;;;;;N;;;;;
 12C4D;PROTO-CUNEIFORM SIGN GISZ CONTAINING DIN BESIDE DIN-B;Lo;0;L;;;;;N;;;;;
 12C4E;PROTO-CUNEIFORM SIGN GISZ CONTAINING DIN BESIDE DIN-C;Lo;0;L;;;;;N;;;;;
 12C4F;PROTO-CUNEIFORM SIGN GUKKAL-A BESIDE HI GUNU-A;Lo;0;L;;;;;N;;;;;
 12C50;PROTO-CUNEIFORM SIGN GURUSZ-A CONTAINING 2 N14;Lo;0;L;;;;;N;;;;;

12C51;PROTO-CUNEIFORM SIGN GURUSZ-B CONTAINING 2 N14;Lo;0;L;;;;N;;;;;
 12C52;PROTO-CUNEIFORM SIGN GURUSZ-C CONTAINING 2 N14;Lo;0;L;;;;N;;;;;
 12C53;PROTO-CUNEIFORM SIGN HASZHUR CONTAINING MA;Lo;0;L;;;;N;;;;;
 12C54;PROTO-CUNEIFORM SIGN HI CONTAINING 1 N57 TENU;Lo;0;L;;;;N;;;;;
 12C55;PROTO-CUNEIFORM SIGN HI CONTAINING SZE3 TENU;Lo;0;L;;;;N;;;;;
 12C56;PROTO-CUNEIFORM SIGN HI CONTAINING ZATU707-A;Lo;0;L;;;;N;;;;;
 12C57;PROTO-CUNEIFORM SIGN KA-A CONTAINING SAR-A;Lo;0;L;;;;N;;;;;
 12C58;PROTO-CUNEIFORM SIGN KA-A BESIDE SZE-A;Lo;0;L;;;;N;;;;;
 12C59;PROTO-CUNEIFORM SIGN KA-A BESIDE SZE-A VARIANT 1;Lo;0;L;;;;N;;;;;
 12C5A;PROTO-CUNEIFORM SIGN KA2 CONTAINING LAM;Lo;0;L;;;;N;;;;;
 12C5B;PROTO-CUNEIFORM SIGN KAK-A BESIDE GA2-A1;Lo;0;L;;;;N;;;;;
 12C5C;PROTO-CUNEIFORM SIGN KASZ-B CONTAINING SZE-A;Lo;0;L;;;;N;;;;;
 12C5D;PROTO-CUNEIFORM SIGN KI NUTILLU CONTAINING DUB-A;Lo;0;L;;;;N;;;;;
 12C5E;PROTO-CUNEIFORM SIGN KU6-A JOINED WITH GISZ;Lo;0;L;;;;N;;;;;
 12C5F;PROTO-CUNEIFORM SIGN KU6-A JOINED WITH KU6-A;Lo;0;L;;;;N;;;;;
 12C60;PROTO-CUNEIFORM SIGN LAGAB-A CONTAINING 2 N14;Lo;0;L;;;;N;;;;;
 12C61;PROTO-CUNEIFORM SIGN LU2 CONTAINING GESZTU-C3;Lo;0;L;;;;N;;;;;
 12C62;PROTO-CUNEIFORM SIGN MA CONTAINING 1 N58;Lo;0;L;;;;N;;;;;
 12C63;PROTO-CUNEIFORM SIGN MA CONTAINING 2 N57;Lo;0;L;;;;N;;;;;
 12C64;PROTO-CUNEIFORM SIGN MA CONTAINING MA;Lo;0;L;;;;N;;;;;
 12C65;PROTO-CUNEIFORM SIGN MAR-B CONTAINING LAGAB-B BESIDE SZE3;Lo;0;L;;;;N;;;;;
 12C66;PROTO-CUNEIFORM SIGN MUD3-A GUNU CONTAINING GU;Lo;0;L;;;;N;;;;;
 12C67;PROTO-CUNEIFORM SIGN MUSZEN CONTAINING 1 N57;Lo;0;L;;;;N;;;;;
 12C68;PROTO-CUNEIFORM SIGN MUSZEN CONTAINING 2 N57;Lo;0;L;;;;N;;;;;
 12C69;PROTO-CUNEIFORM SIGN MUSZEN CONTAINING 3 N57;Lo;0;L;;;;N;;;;;
 12C6A;PROTO-CUNEIFORM SIGN NI-A CONTAINING 1 N57;Lo;0;L;;;;N;;;;;
 12C6B;PROTO-CUNEIFORM SIGN NI-B CONTAINING 4 N57;Lo;0;L;;;;N;;;;;
 12C6C;PROTO-CUNEIFORM SIGN NIR-A CONTAINING AN;Lo;0;L;;;;N;;;;;
 12C6D;PROTO-CUNEIFORM SIGN NUN-A JOINED WITH EN-A;Lo;0;L;;;;N;;;;;
 12C6E;PROTO-CUNEIFORM SIGN NUN-A JOINED WITH EN-B;Lo;0;L;;;;N;;;;;
 12C6F;PROTO-CUNEIFORM SIGN NUN-A JOINED WITH EN-D;Lo;0;L;;;;N;;;;;
 12C70;PROTO-CUNEIFORM SIGN NUN-B JOINED WITH EN-A;Lo;0;L;;;;N;;;;;
 12C71;PROTO-CUNEIFORM SIGN PIRIG-B1 CONTAINING UR2;Lo;0;L;;;;N;;;;;
 12C72;PROTO-CUNEIFORM SIGN SAG CONTAINING 1 N14;Lo;0;L;;;;N;;;;;
 12C73;PROTO-CUNEIFORM SIGN SAG CONTAINING GESZTU-A;Lo;0;L;;;;N;;;;;
 12C74;PROTO-CUNEIFORM SIGN SAG CONTAINING GESZTU-C;Lo;0;L;;;;N;;;;;
 12C75;PROTO-CUNEIFORM SIGN SAG CONTAINING MA;Lo;0;L;;;;N;;;;;
 12C76;PROTO-CUNEIFORM SIGN SAG CONTAINING SAR-A;Lo;0;L;;;;N;;;;;
 12C77;PROTO-CUNEIFORM SIGN SAL CONTAINING 1 N58;Lo;0;L;;;;N;;;;;
 12C78;PROTO-CUNEIFORM SIGN SI CONTAINING GU4;Lo;0;L;;;;N;;;;;
 12C79;PROTO-CUNEIFORM SIGN SIG2-B CONTAINING 1 N14;Lo;0;L;;;;N;;;;;
 12C7A;PROTO-CUNEIFORM SIGN SU-A CONTAINING 1 N58;Lo;0;L;;;;N;;;;;
 12C7B;PROTO-CUNEIFORM SIGN SUKUD JOINED WITH SUKUD-A;Lo;0;L;;;;N;;;;;
 12C7C;PROTO-CUNEIFORM SIGN SUKUD JOINED WITH SUKUD-B;Lo;0;L;;;;N;;;;;
 12C7D;PROTO-CUNEIFORM SIGN SUKUD JOINED WITH SUKUD-C;Lo;0;L;;;;N;;;;;
 12C7E;PROTO-CUNEIFORM SIGN SUKUD JOINED WITH SUKUD-D;Lo;0;L;;;;N;;;;;
 12C7F;PROTO-CUNEIFORM SIGN SZEN-D CONTAINING A;Lo;0;L;;;;N;;;;;
 12C80;PROTO-CUNEIFORM SIGN SZITA GUNU-A CONTAINING 1 N4;Lo;0;L;;;;N;;;;;
 12C81;PROTO-CUNEIFORM SIGN SZITA GUNU-A CONTAINING 1 N6;Lo;0;L;;;;N;;;;;
 12C82;PROTO-CUNEIFORM SIGN SZITA-A1 CONTAINING 1 N6;Lo;0;L;;;;N;;;;;

12C83;PROTO-CUNEIFORM SIGN TA-D CONTAINING MASZ;Lo;0;L;;;;N;;;;;
 12C84;PROTO-CUNEIFORM SIGN U4 CONTAINING 4 N57;Lo;0;L;;;;N;;;;;
 12C85;PROTO-CUNEIFORM SIGN U4 CONTAINING 5 N57;Lo;0;L;;;;N;;;;;
 12C86;PROTO-CUNEIFORM SIGN U4 CONTAINING 6 N57;Lo;0;L;;;;N;;;;;
 12C87;PROTO-CUNEIFORM SIGN U4 CONTAINING 7 N57;Lo;0;L;;;;N;;;;;
 12C88;PROTO-CUNEIFORM SIGN U4 CONTAINING 8 N57;Lo;0;L;;;;N;;;;;
 12C89;PROTO-CUNEIFORM SIGN U4 CONTAINING 10 N57;Lo;0;L;;;;N;;;;;
 12C8A;PROTO-CUNEIFORM SIGN U4 BESIDE SZU2;Lo;0;L;;;;N;;;;;
 12C8B;PROTO-CUNEIFORM SIGN U8 CONTAINING TAR-B;Lo;0;L;;;;N;;;;;
 12C8C;PROTO-CUNEIFORM SIGN UDU-A CONTAINING TAR-A;Lo;0;L;;;;N;;;;;
 12C8D;PROTO-CUNEIFORM SIGN UDU-A CONTAINING TAR-B;Lo;0;L;;;;N;;;;;
 12C8E;PROTO-CUNEIFORM SIGN UR-A CONTAINING KAR2;Lo;0;L;;;;N;;;;;
 12C8F;PROTO-CUNEIFORM SIGN UR2 CONTAINING TAR;Lo;0;L;;;;N;;;;;
 12C90;PROTO-CUNEIFORM SIGN UR3-B1 CONTAINING MASZ;Lo;0;L;;;;N;;;;;
 12C91;PROTO-CUNEIFORM SIGN USZ-B CONTAINING TAR-C;Lo;0;L;;;;N;;;;;
 12C92;PROTO-CUNEIFORM SIGN USZ-B CONTAINING TAR-C VARIANT 1;Lo;0;L;;;;N;;;;;
 12C93;PROTO-CUNEIFORM SIGN USZ-B CONTAINING TAR-D;Lo;0;L;;;;N;;;;;
 12C94;PROTO-CUNEIFORM SIGN ZATU651 CONTAINING AN;Lo;0;L;;;;N;;;;;
 12C95;PROTO-CUNEIFORM SIGN ZATU651 CONTAINING EN-A;Lo;0;L;;;;N;;;;;
 12C96;PROTO-CUNEIFORM SIGN ZATU651 CONTAINING GAR;Lo;0;L;;;;N;;;;;
 12C97;PROTO-CUNEIFORM SIGN ZATU651 CONTAINING MA;Lo;0;L;;;;N;;;;;
 12C98;PROTO-CUNEIFORM SIGN ZATU651 CONTAINING NUN-A;Lo;0;L;;;;N;;;;;
 12C99;PROTO-CUNEIFORM SIGN ZATU651 CONTAINING SZE-A;Lo;0;L;;;;N;;;;;
 12C9A;PROTO-CUNEIFORM SIGN ZATU651 CONTAINING ZAR-C;Lo;0;L;;;;N;;;;;
 12C9B;PROTO-CUNEIFORM SIGN ZATU759 CONTAINING KU6-A;Lo;0;L;;;;N;;;;;
 12C9C;PROTO-CUNEIFORM SIGN ZATU759 CONTAINING KU6-A JOINED WITH KU6-A;Lo;0;L;;;;N;;;;;
 12C9D;PROTO-CUNEIFORM SIGN ZATU759 CONTAINING KU6-D;Lo;0;L;;;;N;;;;;
 12C9E;PROTO-CUNEIFORM SIGN ZATU644-A CONTAINING 1 N14;Lo;0;L;;;;N;;;;;
 12C9F;PROTO-CUNEIFORM SIGN ZATU762-A CONTAINING NIM-A;Lo;0;L;;;;N;;;;;
 12CA0;PROTO-CUNEIFORM SIGN ZATU762-B CONTAINING AB-A;Lo;0;L;;;;N;;;;;
 12CA1;PROTO-CUNEIFORM BEGIN GROUP;Cf;0;L;;;;N;;;;;
 12CA2;PROTO-CUNEIFORM END GROUP;Cf;0;L;;;;N;;;;;
 12CA3;PROTO-CUNEIFORM HORIZONTAL NON-JOINER;Cf;0;L;;;;N;;;;;
 12CA4;PROTO-CUNEIFORM HORIZONTAL JOINER;Cf;0;L;;;;N;;;;;
 12CA5;PROTO-CUNEIFORM HORIZONTAL INSERTION;Cf;0;L;;;;N;;;;;
 12CA6;PROTO-CUNEIFORM VERTICAL NON-JOINER;Cf;0;L;;;;N;;;;;
 12CA7;PROTO-CUNEIFORM VERTICAL JOINER;Cf;0;L;;;;N;;;;;
 12CA8;PROTO-CUNEIFORM CONTAINER;Cf;0;L;;;;N;;;;;
 12CA9;PROTO-CUNEIFORM OVERLAY;Cf;0;L;;;;N;;;;;
 12CAA;PROTO-CUNEIFORM REVERSE;Cf;0;L;;;;N;;;;;

Linebreaking Properties: Linebreak.txt

12580..126E6;AL # N1 [359] PROTO-CUNEIFORM NUMERIC SIGN 1 N1..
 PROTO-CUNEIFORM NUMERIC SIGN 12 N58
 126E7..12CA0;AL # N1 [1466] PROTO-CUNEIFORM SIGN A..
 PROTO-CUNEIFORM SIGN ZATU762-B CONTAINING AB-A
 12CA1..12CAA;GL # Cf [10] PROTO_CUNEIFORM BEGIN GROUP..
 PROTO-CUNEIFORM REVERSE

9 References

- Englund, Robert K. 2004. “Proto-Cuneiform Account-Books and Journals”. *Creating Economic Order: Record-keeping, Standardization and the Development of Accounting in the Ancient Near East*, Michael Hudson and Cornelia Wunsch [eds.], pp. 23–46. Bethesda, Maryland: CDL Press.
<http://cdli.ucla.edu/staff/englund/publications/englund2004a.pdf>
- Everson, Michael; Hawkins, Laura F. 2016. “Preliminary proposal to encode Proto-Cuneiform in the SMP of the UCS” (WG2 N4760, L2/16-267)
<http://www.unicode.org/L2/L2016/16267-n4760-proto-cuneiform.pdf>
- . 2017. “Proposal to encode Proto-Cuneiform in the SMP of the UCS” (WG2 N4797, L2/17-157)
<http://www.unicode.org/L2/L2017/17157-n4797-proto-cuneiform.pdf>
- Hawkins, Laura. 2019. “Proposal to Encode Proto-Cuneiform in the SMP of the UCS” (L2/19-284)
<http://www.unicode.org/L2/L2019/19284-proto-cuneiform.pdf>
- Nissen, Hans-Jörg; Damerow, Peter; Englund, Robert K. 1993. *Archaic Bookkeeping: Early Writing and Techniques of Economic Administration in the Ancient Near East*. Chicago: University of Chicago Press.
- Woods, Christopher; Emberling, Geoff; Teeter, Emily. 2010. *Visible Language: Inventions of Writing in the Ancient Middle East and Beyond*. Chicago: Oriental Institute of the University of Chicago.

10 Acknowledgments

This project has been made possible in part by a grant from the U.S. National Endowment for the Humanities, which funded the Universal Scripts Project PR-253360-17 (part of the Script Encoding Initiative at UC Berkeley). Any views, findings, conclusions or recommendations expressed in this publication do not necessarily reflect those of the National Endowment of the Humanities.

In the second text (fig. 37), the quantities for both products are further differentiated according to an additional criterion. In this case, the respective entries are followed by the signs NAGA (𒀭) and DUB (𒀭), the meanings of which are, however, not understood. The summations are formed in two consecutive steps. In the first step, the amounts of barley groats and malt are added together separately, then the grand total of all entries was calculated.

In this text as well, the scribe made a mistake in his totals. In adding both quantities of malt, he forgot to include the four units 𒀭 in the subtotal.

Calculations in the Production of Beer and Other Cereal Products

One of the most important texts of the Erlenmeyer collection (MSVO 3, 2, fig. 38) discloses exceptional information about the use of the cereal products accounted for by Kushim. A scribe, probably a staff member of Kushim's office, had noted down his calculations pertaining to the exact ingredients required for nine different cereal products and eight different kinds of beer in a tabular compilation. Some of the products are noted with the respective amounts of cereals contained in them. These ingredients are denoted by the signs 𒀭, 𒀭, 𒀭, 𒀭, and 𒀭. Others are denoted by more specific ideograms such as 𒀭 and 𒀭. In this text, five different numerical systems were used (see chap. 6), the bisexagesimal system for the cereal products, the sexagesimal system for the beer containers, and three different systems for the measures of cereals. One of the latter was used for the specification of the quantities of the cereal ingredients contained in the products; the other two are those already discussed in connection with barley groats and malt. Not only the formal aspects of the compilation but also the fact that it is unsigned reveals that the text represents some sort of supplementary annotation to the proper administrative documents. Such documents have often been regarded as school texts, although the available documents from the administrative archive of Kushim now clearly testify that such calculations were part of regular administrative practice.

Texts containing calculations of the cereal ingredients needed for certain products belong to the most complicated arithmetical texts of the archaic period. To date, only a very few texts have been found in which such calculations were systematically carried out for various cereal products, for types of beer and so on. We know of only one text (now in the Iraq Museum, Baghdad) with features comparable to those of text MSVO 3, 2. One of the remarkable things about these texts is that they inform us directly about the ingredients of different cereal products. In fact, it was the study of such texts that provided the basic proofs for the decipherment of the cereal measures used in the present publication. Their special value is also to be seen in the light they shed on

the developmental stage of arithmetical techniques in the period immediately after the invention of writing.

The structure of the calculations is demonstrated by the following three examples taken from the text in question.

1. The fourth line in the first column records an amount of barley groats needed for the production of 30 units of the final cereal product (represented by the triple repetition of the sign 𒀭, the sign normally used for "10"). The final product is represented by the numerical sign 𒀭. The total amount of barley groats needed, which is represented by the sign combination 𒀭 𒀭, is obtained when 𒀭 is multiplied by 30.
2. The seventh line of the first column informs us about how much barley groats and malt (in this case equal amounts of both products) was needed for the production of five jars with a type of beer, represented by the signs 𒀭 𒀭. This line, therefore, documents the composition of this type of beer.
3. In the fifth line of the second column, the equivalent amount of barley for 1800 daily cereal rations (sign 𒀭) was calculated. The use of the sign 𒀭 points therefore to the size of such rations (approximately 0.8 liter). The figure 1800 is rendered in the bisexagesimal system, containing the sign 𒀭 for 1200 and 𒀭 for 120, which was used exclusively to quantify cereal products.

As in many other cases the present text contains an error. For a unit of the cereal product 𒀭 the scribe had written in the first text line sign 𒀭, corresponding to ten times the necessary amount of the ingredient barley groats. Although this calculation is a fairly easy one, and the remaining, more complicated calculations seem to be otherwise correct, we must assume that the detected error is merely due to a mental lapse on the part of the scribe. For the correct reading, one has to replace the sign for "one" (𒀭) with the sign denoting "ten" (𒀭).

Beer Production and Accounts of Cereal Ingredients

Finally, the documents from the administration of the official Kushim provide a rare example of a direct accounting connection between different texts. During the archaic period, running accounts apparently already existed. However, the texts are so fragmentary that the continuity of such accounts can only very rarely be traced. It should therefore be viewed as an unusual coincidence that two texts from the Erlenmeyer collection refer at two different stages to one and the same transaction, thereby clearly documenting the continuity of archaic bookkeeping as a whole.

Text MSVO 3, 6 (fig. 39b) documents the production of beer for four administration officials, among them a person with the

Figure 1: Examples of Proto-Cuneiform signs used in running text (from Nissen, Damerow, Englund 1993: 43).

2. THE EARLIEST MESOPOTAMIAN WRITING

THE WRITING SYSTEM AND ITS
RELATIONSHIP TO SPEECH

At the root of the cuneiform writing system, as originally conceived, is the logogram, or word sign, which represents a single word or group of semantically related words (see fig. 2.5). Assigning semantically related words to a common graph was done in the interest of economy, as it limited the number of signs the writing system required and facilitated the learning of the script. For instance, the sign DU, originally a pictograph of a foot, , expressed the verbs *gen* “to go,” *gub* “to stand,” and *de* “to carry,” all of which share a transparent semantic relationship. Taken in isolation, one would be tempted to describe DU, and similar signs, as ideograms — signs that represent ideas or concepts — but in actuality all cuneiform signs represented specific words in a given context, and so functioned as logograms.

As Sumerian words tend to consist of (but are not exclusively) single syllables, logograms had both a semantic meaning, as representing words, as well as a phonetic value, expressing the syllabic pronunciations of those words. For example, the logogram represented by the graph KU₆ (the subscripted number is a modern convention for distinguishing homophonous signs), , has the meaning “fish” as well as the syllabic value *ku*, which is the pronunciation of the word for “fish” in Sumerian. As described above, many of these logograms had a clear pictographic relationship to their referents; other examples include the picture of a reed,  (GI₄), for the Sumerian word for “reed,” that is, *gi*, or the graph for “mountain,”  (KUR), for the word for “mountain,” *kur*. A much smaller group of logograms, however, had an arbitrary relationship to their referents, such as the sign for “sheep and goats” which consisted of a cross inscribed within a circle,  (e.g., Catalog No. 28). Through the use of the rebus principle, whereby a sign for one word could be used to express a homonym, a second class of signs arose — phonograms — which possessed sound but not meaning. That is, the phonetic value associated with one word, most often something with a ready iconic representation, could be used to write another word that was identical or nearly so in pronunciation. The rebus principle is integral to writing, as it allows for the representation of those elements of language that are not easily

represented graphically, for instance, grammatical affixes, prepositions, and — of considerable importance to the historical development of cuneiform — the phonetic rendering of personal names and foreign words. The high frequency of monosyllabic words and homonyms in Sumerian clearly facilitated this development. For instance, in later cuneiform the sign for *sar* “garden” (originally a pictograph of a garden bed, ) could be used to write the homophonous but more abstract verb *sar* “to write”; similarly, the sign originally representing “water,” , *a* in Sumerian, was used for the syllable *a*, which among other things was the phonetic shape of the locative case in Sumerian. Finally, there is a third, smaller set of signs that are referred to as determinatives. These signs were not read, but merely served as aides in reading by indicating the semantic class to which certain words belonged; trees and wooden objects, for instance, were often preceded by the logogram, *giš*, for “wood,” cities by *uru* “city,” gods by *dingir* “god,” and so on.

In its original conception, however, Sumerian writing relied almost exclusively on the logogram. Phonetic writings generated via the rebus principle played a remarkably minor role in proto-cuneiform. More certain examples of phonetic writings include: the writing of the name of the moon god, Nanna, which is written URI₃+NA, , where NA, , is phonetic complement with the value *na* indicating that the graph URI₃, , is to be pronounced *nanna*; PIRIG+NUNUZ, , where the complement NUNUZ, , has the value *za*, indicating that the composite graph has the phonetic value *az(a)*; the aforementioned sign designating a reed,  (GI₄), pronounced *gi*, is used to express the homophonous verb *gi* “to return”; and the syllabic, that is phonetic, spellings of the city names *Ša₃-bu* and *Gir₂-su* (Englund 2009, pp. 9–10; Krebernik 2007, p. 43). Relatively rare attestations of this kind notwithstanding, phonetic writings do not constitute an important organizing feature of the proto-cuneiform writing system. Only in the first quarter of the third millennium did phonograms, generated via the rebus principle, begin to play a significant and increasing role.

The scarcity of phonetic writings creates a number of problems connected with identifying the language of the script and determining whether proto-cuneiform can be defined as “true” writing.

Figure 2: Examples of Proto-Cuneiform signs used in running text (from Woods, Emberling, Teeter 2010: 43).

	1258	1259	125A	125B	125C	125D	125E	125F	1260	1261	1262	1263	1264	1265	1266	1267
0																
1																
2																
3																
4																
5																
6																
7																
8																
9																
A																
B																
C																
D																
E																
F																

	1268	1269	126A	126B	126C	126D	126E	126F	1270	1271	1272	1273	1274	1275	1276	1277
0																
1																
2																
3																
4																
5																
6																
7																
8																
9																
A																
B																
C																
D																
E																
F																

	1278	1279	127A	127B	127C	127D	127E	127F	1280	1281	1282	1283	1284	1285	1286
0	 12780	 12790	 127A0	 127B0	 127C0	 127D0	 127E0	 127F0	 12800	 12810	 12820	 12830	 12840	 12850	 12860
1	 12781	 12791	 127A1	 127B1	 127C1	 127D1	 127E1	 127F1	 12801	 12811	 12821	 12831	 12841	 12851	 12861
2	 12782	 12792	 127A2	 127B2	 127C2	 127D2	 127E2	 127F2	 12802	 12812	 12822	 12832	 12842	 12852	 12862
3	 12783	 12793	 127A3	 127B3	 127C3	 127D3	 127E3	 127F3	 12803	 12813	 12823	 12833	 12843	 12853	 12863
4	 12784	 12794	 127A4	 127B4	 127C4	 127D4	 127E4	 127F4	 12804	 12814	 12824	 12834	 12844	 12854	 12864
5	 12785	 12795	 127A5	 127B5	 127C5	 127D5	 127E5	 127F5	 12805	 12815	 12825	 12835	 12845	 12855	 12865
6	 12786	 12796	 127A6	 127B6	 127C6	 127D6	 127E6	 127F6	 12806	 12816	 12826	 12836	 12846	 12856	 12866
7	 12787	 12797	 127A7	 127B7	 127C7	 127D7	 127E7	 127F7	 12807	 12817	 12827	 12837	 12847	 12857	 12867
8	 12788	 12798	 127A8	 127B8	 127C8	 127D8	 127E8	 127F8	 12808	 12818	 12828	 12838	 12848	 12858	 12868
9	 12789	 12799	 127A9	 127B9	 127C9	 127D9	 127E9	 127F9	 12809	 12819	 12829	 12839	 12849	 12859	 12869
A	 1278A	 1279A	 127AA	 127BA	 127CA	 127DA	 127EA	 127FA	 1280A	 1281A	 1282A	 1283A	 1284A	 1285A	 1286A
B	 1278B	 1279B	 127AB	 127BB	 127CB	 127DB	 127EB	 127FB	 1280B	 1281B	 1282B	 1283B	 1284B	 1285B	 1286B
C	 1278C	 1279C	 127AC	 127BC	 127CC	 127DC	 127EC	 127FC	 1280C	 1281C	 1282C	 1283C	 1284C	 1285C	 1286C
D	 1278D	 1279D	 127AD	 127BD	 127CD	 127DD	 127ED	 127FD	 1280D	 1281D	 1282D	 1283D	 1284D	 1285D	 1286D
E	 1278E	 1279E	 127AE	 127BE	 127CE	 127DE	 127EE	 127FE	 1280E	 1281E	 1282E	 1283E	 1284E	 1285E	 1286E
F	 1278F	 1279F	 127AF	 127BF	 127CF	 127DF	 127EF	 127FF	 1280F	 1281F	 1282F				

	1287	1288	1289	128A	128B	128C	128D	128E	128F	1290	1291	1292	1293	1294	1295
0															
1															
2															
3															
4															
5															
6															
7															
8															
9															
A															
B															
C															
D															
E															
F															

	1296	1297	1298	1299	129A	129B	129C	129D	129E	129F	12A0	12A1	12A2	12A3	12A4
0															
1															
2															
3															
4															
5															
6															
7															
8															
9															
A															
B															
C															
D															
E															
F															

	12A5	12A6	12A7	12A8	12A9	12AA	12AB	12AC	12AD	12AE	12AF	12B0	12B1	12B2	12B3
0															
1															
2															
3															
4															
5															
6															
7															
8															
9															
A															
B															
C															
D															
E															
F															

	12B4	12B5	12B6	12B7	12B8	12B9	12BA	12BB	12BC	12BD	12BE	12BF	12C0	12C1	12C2
0															
1															
2															
3															
4															
5															
6															
7															
8															
9															
A															
B															
C															
D															
E															
F															

	12C3	12C4	12C5	12C6	12C7	12C8	12C9	12CA	12CB	12CC	12CD	12CE	12CF	12D0	12D1
0	 12C30	 12C40	 12C50	 12C60	 12C70	 12C80	 12C90	 12CA0							
1	 12C31	 12C41	 12C51	 12C61	 12C71	 12C81	 12C91	 12CA1							
2	 12C32	 12C42	 12C52	 12C62	 12C72	 12C82	 12C92	 12CA2							
3	 12C33	 12C43	 12C53	 12C63	 12C73	 12C83	 12C93	 12CA3							
4	 12C34	 12C44	 12C54	 12C64	 12C74	 12C84	 12C94	 12CA4							
5	 12C35	 12C45	 12C55	 12C65	 12C75	 12C85	 12C95	 12CA5							
6	 12C36	 12C46	 12C56	 12C66	 12C76	 12C86	 12C96	 12CA6							
7	 12C37	 12C47	 12C57	 12C67	 12C77	 12C87	 12C97	 12CA7							
8	 12C38	 12C48	 12C58	 12C68	 12C78	 12C88	 12C98	 12CA8							
9	 12C39	 12C49	 12C59	 12C69	 12C79	 12C89	 12C99	 12CA9							
A	 12C3A	 12C4A	 12C5A	 12C6A	 12C7A	 12C8A	 12C9A	 12CAA							
B	 12C3B	 12C4B	 12C5B	 12C6B	 12C7B	 12C8B	 12C9B								
C	 12C3C	 12C4C	 12C5C	 12C6C	 12C7C	 12C8C	 12C9C								
D	 12C3D	 12C4D	 12C5D	 12C6D	 12C7D	 12C8D	 12C9D								
E	 12C3E	 12C4E	 12C5E	 12C6E	 12C7E	 12C8E	 12C9E								
F	 12C3F	 12C4F	 12C5F	 12C6F	 12C7F	 12C8F	 12C9F								

Numerical signs

12580	𐎠	PROTO-CUNEIFORM NUMBER 1 N1	125C0	𐎠	PROTO-CUNEIFORM NUMBER 1 N51 FLAT
12581	𐎡	PROTO-CUNEIFORM NUMBER 1 N1 FLAT	125C1	𐎡	PROTO-CUNEIFORM NUMBER 1 N52
12582	𐎢	PROTO-CUNEIFORM NUMBER 1 N1 REVERSED	125C2	𐎢	PROTO-CUNEIFORM NUMBER 1 N54
12583	𐎣	PROTO-CUNEIFORM NUMBER 1 N2	125C3	𐎣	PROTO-CUNEIFORM NUMBER 1 N55
12584	𐎤	PROTO-CUNEIFORM NUMBER 1 N3	125C4	●	PROTO-CUNEIFORM NUMBER 1 N56
12585	𐎥	PROTO-CUNEIFORM NUMBER 1 N4	125C5	—	PROTO-CUNEIFORM NUMBER 1 N57
12586	𐎦	PROTO-CUNEIFORM NUMBER 1 N4 FLAT	125C6	1	PROTO-CUNEIFORM NUMBER 1 N58
12587	𐎧	PROTO-CUNEIFORM NUMBER 1 N5	125C7	˘	PROTO-CUNEIFORM NUMBER 1 N58 TENU
12588	𐎨	PROTO-CUNEIFORM NUMBER 1 N6	125C8	𐎨	PROTO-CUNEIFORM NUMBER 1 N60
12589	𐎩	PROTO-CUNEIFORM NUMBER 1 N8	125C9	𐎩	PROTO-CUNEIFORM NUMBER 1 N63
1258A	𐎪	PROTO-CUNEIFORM NUMBER 1 N8 FLAT	125CA	𐎪	PROTO-CUNEIFORM NUMBER 1 N7-A
1258B	𐎫	PROTO-CUNEIFORM NUMBER 1 N9	125CB	𐎫	PROTO-CUNEIFORM NUMBER 1 N7-B
1258C	𐎬	PROTO-CUNEIFORM NUMBER 1 N11	125CC	𐎬	PROTO-CUNEIFORM NUMBER 1 N8-B
1258D	𐎭	PROTO-CUNEIFORM NUMBER 1 N12	125CD	𐎭	PROTO-CUNEIFORM NUMBER 1 N24-A
1258E	•	PROTO-CUNEIFORM NUMBER 1 N14	125CE	𐎮	PROTO-CUNEIFORM NUMBER 1 N24-B
1258F	•	PROTO-CUNEIFORM NUMBER 1 N14 FLAT	125CF	𐎯	PROTO-CUNEIFORM NUMBER 1 N26-B
12590	•	PROTO-CUNEIFORM NUMBER 1 N15	125D0	⊕	PROTO-CUNEIFORM NUMBER 1 N28-B
12591	•	PROTO-CUNEIFORM NUMBER 1 N16	125D1	⊕	PROTO-CUNEIFORM NUMBER 1 N28-C
12592	•	PROTO-CUNEIFORM NUMBER 1 N17	125D2	⊕	PROTO-CUNEIFORM NUMBER 1 N29-A
12593	•	PROTO-CUNEIFORM NUMBER 1 N18	125D3	⊕	PROTO-CUNEIFORM NUMBER 1 N29-A VARIANT 1
12594	•	PROTO-CUNEIFORM NUMBER 1 N19	125D4	⊕	PROTO-CUNEIFORM NUMBER 1 N29-B
12595	•	PROTO-CUNEIFORM NUMBER 1 N19 FLAT	125D5	⊕	PROTO-CUNEIFORM NUMBER 1 N30-A
12596	•	PROTO-CUNEIFORM NUMBER 1 N20	125D6	⊕	PROTO-CUNEIFORM NUMBER 1 N30-A VARIANT 1
12597	•	PROTO-CUNEIFORM NUMBER 1 N22	125D7	⊕	PROTO-CUNEIFORM NUMBER 1 N30-C
12598	•	PROTO-CUNEIFORM NUMBER 1 N22 FLAT	125D8	⊕	PROTO-CUNEIFORM NUMBER 1 N30-D
12599	𐎱	PROTO-CUNEIFORM NUMBER 1 N23	125D9	⊕	PROTO-CUNEIFORM NUMBER 1 N30-E
1259A	𐎲	PROTO-CUNEIFORM NUMBER 1 N24	125DA	—	PROTO-CUNEIFORM NUMBER 1 N39-A
1259B	𐎳	PROTO-CUNEIFORM NUMBER 1 N24 FLAT	125DB	—	PROTO-CUNEIFORM NUMBER 1 N39-B
1259C	𐎴	PROTO-CUNEIFORM NUMBER 1 N25	125DC	—	PROTO-CUNEIFORM NUMBER 1 N42-A
1259D	⊕	PROTO-CUNEIFORM NUMBER 1 N26	125DD	—	PROTO-CUNEIFORM NUMBER 1 N42-B
1259E	⊕	PROTO-CUNEIFORM NUMBER 1 N26 VARIANT 1	125DE	●	PROTO-CUNEIFORM NUMBER 1 N45-A
1259F	⊕	PROTO-CUNEIFORM NUMBER 1 N27	125DF	𐎶	PROTO-CUNEIFORM NUMBER 2 N1
125A0	⊕	PROTO-CUNEIFORM NUMBER 1 N27 VARIANT 1	125E0	𐎶	PROTO-CUNEIFORM NUMBER 2 N1 FLAT
125A1	⊕	PROTO-CUNEIFORM NUMBER 1 N28	125E1	𐎶	PROTO-CUNEIFORM NUMBER 2 N2
125A2	⊕	PROTO-CUNEIFORM NUMBER 1 N29A-B	125E2	𐎶	PROTO-CUNEIFORM NUMBER 2 N3
125A3	⊕	PROTO-CUNEIFORM NUMBER 1 N29A-C	125E3	𐎶	PROTO-CUNEIFORM NUMBER 2 N4
125A4	⊕	PROTO-CUNEIFORM NUMBER 1 N30A-C	125E4	𐎶	PROTO-CUNEIFORM NUMBER 2 N4 FLAT
125A5	⊕	PROTO-CUNEIFORM NUMBER 1 N30C-B	125E5	𐎶	PROTO-CUNEIFORM NUMBER 2 N5
125A6	⊕	PROTO-CUNEIFORM NUMBER 1 N30C-C	125E6	𐎶	PROTO-CUNEIFORM NUMBER 2 N8
125A7	⊕	PROTO-CUNEIFORM NUMBER 1 N31	125E7	𐎶	PROTO-CUNEIFORM NUMBER 2 N14
125A8	⊕	PROTO-CUNEIFORM NUMBER 1 N32	125E8	𐎶	PROTO-CUNEIFORM NUMBER 2 N14 FLAT
125A9	⊕	PROTO-CUNEIFORM NUMBER 1 N33	125E9	𐎶	PROTO-CUNEIFORM NUMBER 2 N15
125AA	𐎶	PROTO-CUNEIFORM NUMBER 1 N34	125EA	𐎶	PROTO-CUNEIFORM NUMBER 2 N18
125AB	𐎶	PROTO-CUNEIFORM NUMBER 1 N34 FLAT	125EB	𐎶	PROTO-CUNEIFORM NUMBER 2 N19
125AC	𐎶	PROTO-CUNEIFORM NUMBER 1 N34 FLAT TENU	125EC	𐎶	PROTO-CUNEIFORM NUMBER 2 N19 FLAT
125AD	𐎶	PROTO-CUNEIFORM NUMBER 1 N35	125ED	𐎶	PROTO-CUNEIFORM NUMBER 2 N20
125AE	𐎶	PROTO-CUNEIFORM NUMBER 1 N36	125EE	𐎶	PROTO-CUNEIFORM NUMBER 2 N21
125AF	𐎶	PROTO-CUNEIFORM NUMBER 1 N36 FLAT	125EF	𐎶	PROTO-CUNEIFORM NUMBER 2 N22
125B0	𐎶	PROTO-CUNEIFORM NUMBER 1 N37	125F0	𐎶	PROTO-CUNEIFORM NUMBER 2 N22 FLAT
125B1	𐎶	PROTO-CUNEIFORM NUMBER 1 N38	125F1	𐎶	PROTO-CUNEIFORM NUMBER 2 N23
125B2	𐎶	PROTO-CUNEIFORM NUMBER 1 N40	125F2	𐎶	PROTO-CUNEIFORM NUMBER 2 N24
125B3	𐎶	PROTO-CUNEIFORM NUMBER 1 N41	125F3	𐎶	PROTO-CUNEIFORM NUMBER 2 N29A-B
125B4	𐎶	PROTO-CUNEIFORM NUMBER 1 N43	125F4	𐎶	PROTO-CUNEIFORM NUMBER 2 N34
125B5	𐎶	PROTO-CUNEIFORM NUMBER 1 N44	125F5	𐎶	PROTO-CUNEIFORM NUMBER 2 N34 FLAT
125B6	●	PROTO-CUNEIFORM NUMBER 1 N45	125F6	𐎶	PROTO-CUNEIFORM NUMBER 2 N35
125B7	■	PROTO-CUNEIFORM NUMBER 1 N45 FLAT	125F7	𐎶	PROTO-CUNEIFORM NUMBER 2 N36
125B8	●	PROTO-CUNEIFORM NUMBER 1 N46	125F8	𐎶	PROTO-CUNEIFORM NUMBER 2 N37
125B9	●	PROTO-CUNEIFORM NUMBER 1 N46 FLAT	125F9	𐎶	PROTO-CUNEIFORM NUMBER 2 N40
125BA	●	PROTO-CUNEIFORM NUMBER 1 N47	125FA	𐎶	PROTO-CUNEIFORM NUMBER 2 N41
125BB	𐎶	PROTO-CUNEIFORM NUMBER 1 N48	125FB	●	PROTO-CUNEIFORM NUMBER 2 N45
125BC	𐎶	PROTO-CUNEIFORM NUMBER 1 N48 FLAT	125FC	■	PROTO-CUNEIFORM NUMBER 2 N45 FLAT
125BD	𐎶	PROTO-CUNEIFORM NUMBER 1 N49	125FD	●	PROTO-CUNEIFORM NUMBER 2 N46
125BE	●	PROTO-CUNEIFORM NUMBER 1 N50	125FE	■	PROTO-CUNEIFORM NUMBER 2 N46 FLAT
125BF	𐎶	PROTO-CUNEIFORM NUMBER 1 N51	125FF	●	PROTO-CUNEIFORM NUMBER 2 N47
			12600	𐎶	PROTO-CUNEIFORM NUMBER 2 N48
			12601	𐎶	PROTO-CUNEIFORM NUMBER 2 N49

12602 PROTO-CUNEIFORM NUMBER 2 N50
 12603 PROTO-CUNEIFORM NUMBER 2 N51
 12604 PROTO-CUNEIFORM NUMBER 2 N51 FLAT
 12605 PROTO-CUNEIFORM NUMBER 2 N52
 12606 PROTO-CUNEIFORM NUMBER 2 N54
 12607 PROTO-CUNEIFORM NUMBER 2 N56
 12608 PROTO-CUNEIFORM NUMBER 2 N57
 12609 PROTO-CUNEIFORM NUMBER 2 N58
 1260A PROTO-CUNEIFORM NUMBER 2 N59
 1260B PROTO-CUNEIFORM NUMBER 2 N7-A
 1260C PROTO-CUNEIFORM NUMBER 2 N7-B
 1260D PROTO-CUNEIFORM NUMBER 2 N8-B
 1260E PROTO-CUNEIFORM NUMBER 2 N29-A
 1260F PROTO-CUNEIFORM NUMBER 2 N39-A
 12610 PROTO-CUNEIFORM NUMBER 2 N39-B
 12611 PROTO-CUNEIFORM NUMBER 2 N42-A
 12612 PROTO-CUNEIFORM NUMBER 2 N42-B
 12613 PROTO-CUNEIFORM NUMBER 2 LAGAB-A
 12614 PROTO-CUNEIFORM NUMBER 3 N1
 12615 PROTO-CUNEIFORM NUMBER 3 N1 FLAT
 12616 PROTO-CUNEIFORM NUMBER 3 N2
 12617 PROTO-CUNEIFORM NUMBER 3 N3
 12618 PROTO-CUNEIFORM NUMBER 3 N4
 12619 PROTO-CUNEIFORM NUMBER 3 N4 FLAT
 1261A PROTO-CUNEIFORM NUMBER 3 N5
 1261B PROTO-CUNEIFORM NUMBER 3 N8
 1261C PROTO-CUNEIFORM NUMBER 3 N14
 1261D PROTO-CUNEIFORM NUMBER 3 N14 FLAT
 1261E PROTO-CUNEIFORM NUMBER 3 N15
 1261F PROTO-CUNEIFORM NUMBER 3 N18
 12620 PROTO-CUNEIFORM NUMBER 3 N19
 12621 PROTO-CUNEIFORM NUMBER 3 N19 FLAT
 12622 PROTO-CUNEIFORM NUMBER 3 N20
 12623 PROTO-CUNEIFORM NUMBER 3 N21
 12624 PROTO-CUNEIFORM NUMBER 3 N23
 12625 PROTO-CUNEIFORM NUMBER 3 N34
 12626 PROTO-CUNEIFORM NUMBER 3 N34 FLAT
 12627 PROTO-CUNEIFORM NUMBER 3 N36
 12628 PROTO-CUNEIFORM NUMBER 3 N40
 12629 PROTO-CUNEIFORM NUMBER 3 N41
 1262A PROTO-CUNEIFORM NUMBER 3 N45
 1262B PROTO-CUNEIFORM NUMBER 3 N45 FLAT
 1262C PROTO-CUNEIFORM NUMBER 3 N46
 1262D PROTO-CUNEIFORM NUMBER 3 N47
 1262E PROTO-CUNEIFORM NUMBER 3 N48
 1262F PROTO-CUNEIFORM NUMBER 3 N49
 12630 PROTO-CUNEIFORM NUMBER 3 N50
 12631 PROTO-CUNEIFORM NUMBER 3 N51
 12632 PROTO-CUNEIFORM NUMBER 3 N51 FLAT
 12633 PROTO-CUNEIFORM NUMBER 3 N52
 12634 PROTO-CUNEIFORM NUMBER 3 N53
 12635 PROTO-CUNEIFORM NUMBER 3 N54
 12636 PROTO-CUNEIFORM NUMBER 3 N57
 12637 PROTO-CUNEIFORM NUMBER 3 N58
 12638 PROTO-CUNEIFORM NUMBER 3 N59
 12639 PROTO-CUNEIFORM NUMBER 3 N61
 1263A PROTO-CUNEIFORM NUMBER 3 N7-A
 1263B PROTO-CUNEIFORM NUMBER 3 N7-B
 1263C PROTO-CUNEIFORM NUMBER 3 N8-B
 1263D PROTO-CUNEIFORM NUMBER 3 N39-A
 1263E PROTO-CUNEIFORM NUMBER 3 N39-B
 1263F PROTO-CUNEIFORM NUMBER 3 N42-A
 12640 PROTO-CUNEIFORM NUMBER 3 N42-B
 12641 PROTO-CUNEIFORM NUMBER 4 N1
 12642 PROTO-CUNEIFORM NUMBER 4 N1 FLAT
 12643 PROTO-CUNEIFORM NUMBER 4 N2
 12644 PROTO-CUNEIFORM NUMBER 4 N3
 12645 PROTO-CUNEIFORM NUMBER 4 N4

12646 PROTO-CUNEIFORM NUMBER 4 N4 FLAT
 12647 PROTO-CUNEIFORM NUMBER 4 N5
 12648 PROTO-CUNEIFORM NUMBER 4 N8
 12649 PROTO-CUNEIFORM NUMBER 4 N14
 1264A PROTO-CUNEIFORM NUMBER 4 N14 FLAT
 1264B PROTO-CUNEIFORM NUMBER 4 N15
 1264C PROTO-CUNEIFORM NUMBER 4 N18
 1264D PROTO-CUNEIFORM NUMBER 4 N19
 1264E PROTO-CUNEIFORM NUMBER 4 N19 FLAT
 1264F PROTO-CUNEIFORM NUMBER 4 N20
 12650 PROTO-CUNEIFORM NUMBER 4 N21
 12651 PROTO-CUNEIFORM NUMBER 4 N24
 12652 PROTO-CUNEIFORM NUMBER 4 N34
 12653 PROTO-CUNEIFORM NUMBER 4 N34 FLAT
 12654 PROTO-CUNEIFORM NUMBER 4 N36
 12655 PROTO-CUNEIFORM NUMBER 4 N40
 12656 PROTO-CUNEIFORM NUMBER 4 N41
 12657 PROTO-CUNEIFORM NUMBER 4 N43
 12658 PROTO-CUNEIFORM NUMBER 4 N45
 12659 PROTO-CUNEIFORM NUMBER 4 N45 FLAT
 1265A PROTO-CUNEIFORM NUMBER 4 N48
 1265B PROTO-CUNEIFORM NUMBER 4 N49
 1265C PROTO-CUNEIFORM NUMBER 4 N50
 1265D PROTO-CUNEIFORM NUMBER 4 N51
 1265E PROTO-CUNEIFORM NUMBER 4 N51 FLAT
 1265F PROTO-CUNEIFORM NUMBER 4 N52
 12660 PROTO-CUNEIFORM NUMBER 4 N54
 12661 PROTO-CUNEIFORM NUMBER 4 N57
 12662 PROTO-CUNEIFORM NUMBER 4 N58
 12663 PROTO-CUNEIFORM NUMBER 4 N59
 12664 PROTO-CUNEIFORM NUMBER 4 N62
 12665 PROTO-CUNEIFORM NUMBER 4 N8-B
 12666 PROTO-CUNEIFORM NUMBER 4 N8-C
 12667 PROTO-CUNEIFORM NUMBER 4 N39-A
 12668 PROTO-CUNEIFORM NUMBER 4 N39-B
 12669 PROTO-CUNEIFORM NUMBER 4 N42-A
 1266A PROTO-CUNEIFORM NUMBER 4 N42-B
 1266B PROTO-CUNEIFORM NUMBER 4 LAGAB-A
 1266C PROTO-CUNEIFORM NUMBER 5 N1
 1266D PROTO-CUNEIFORM NUMBER 5 N1 FLAT
 1266E PROTO-CUNEIFORM NUMBER 5 N2
 1266F PROTO-CUNEIFORM NUMBER 5 N3
 12670 PROTO-CUNEIFORM NUMBER 5 N4
 12671 PROTO-CUNEIFORM NUMBER 5 N4 FLAT
 12672 PROTO-CUNEIFORM NUMBER 5 N5
 12673 PROTO-CUNEIFORM NUMBER 5 N8
 12674 PROTO-CUNEIFORM NUMBER 5 N14
 12675 PROTO-CUNEIFORM NUMBER 5 N14
 VARIANT I
 12676 PROTO-CUNEIFORM NUMBER 5 N14 FLAT
 12677 PROTO-CUNEIFORM NUMBER 5 N15
 12678 PROTO-CUNEIFORM NUMBER 5 N18
 12679 PROTO-CUNEIFORM NUMBER 5 N19
 1267A PROTO-CUNEIFORM NUMBER 5 N19 FLAT
 1267B PROTO-CUNEIFORM NUMBER 5 N20
 1267C PROTO-CUNEIFORM NUMBER 5 N21
 1267D PROTO-CUNEIFORM NUMBER 5 N23
 1267E PROTO-CUNEIFORM NUMBER 5 N34
 1267F PROTO-CUNEIFORM NUMBER 5 N34 FLAT
 12680 PROTO-CUNEIFORM NUMBER 5 N35
 12681 PROTO-CUNEIFORM NUMBER 5 N36
 12682 PROTO-CUNEIFORM NUMBER 5 N45
 12683 PROTO-CUNEIFORM NUMBER 5 N45 FLAT
 12684 PROTO-CUNEIFORM NUMBER 5 N48
 12685 PROTO-CUNEIFORM NUMBER 5 N49
 12686 PROTO-CUNEIFORM NUMBER 5 N50
 12687 PROTO-CUNEIFORM NUMBER 5 N51
 12688 PROTO-CUNEIFORM NUMBER 5 N51 FLAT

12689	PROTO-CUNEIFORM NUMBER 5 N52
1268A	PROTO-CUNEIFORM NUMBER 5 N54
1268B	PROTO-CUNEIFORM NUMBER 5 N57
1268C	PROTO-CUNEIFORM NUMBER 5 N58
1268D	PROTO-CUNEIFORM NUMBER 6 N1
1268E	PROTO-CUNEIFORM NUMBER 6 N1 FLAT
1268F	PROTO-CUNEIFORM NUMBER 6 N2
12690	PROTO-CUNEIFORM NUMBER 6 N8
12691	PROTO-CUNEIFORM NUMBER 6 N14
12692	PROTO-CUNEIFORM NUMBER 6 N14 VARIANT 1
12693	PROTO-CUNEIFORM NUMBER 6 N14 FLAT
12694	PROTO-CUNEIFORM NUMBER 6 N18
12695	PROTO-CUNEIFORM NUMBER 6 N19
12696	PROTO-CUNEIFORM NUMBER 6 N19 FLAT
12697	PROTO-CUNEIFORM NUMBER 6 N20
12698	PROTO-CUNEIFORM NUMBER 6 N21
12699	PROTO-CUNEIFORM NUMBER 6 N24
1269A	PROTO-CUNEIFORM NUMBER 6 N34
1269B	PROTO-CUNEIFORM NUMBER 6 N34 FLAT
1269C	PROTO-CUNEIFORM NUMBER 6 N36
1269D	PROTO-CUNEIFORM NUMBER 6 N45
1269E	PROTO-CUNEIFORM NUMBER 6 N45 FLAT
1269F	PROTO-CUNEIFORM NUMBER 6 N48
126A0	PROTO-CUNEIFORM NUMBER 6 N51
126A1	PROTO-CUNEIFORM NUMBER 6 N51 FLAT
126A2	PROTO-CUNEIFORM NUMBER 6 N57
126A3	PROTO-CUNEIFORM NUMBER 6 N57 VARIANT 1
126A4	PROTO-CUNEIFORM NUMBER 6 LAGAB-A
126A5	PROTO-CUNEIFORM NUMBER 7 N1
126A6	PROTO-CUNEIFORM NUMBER 7 N1 FLAT
126A7	PROTO-CUNEIFORM NUMBER 7 N2
126A8	PROTO-CUNEIFORM NUMBER 7 N8
126A9	PROTO-CUNEIFORM NUMBER 7 N14
126AA	PROTO-CUNEIFORM NUMBER 7 N14 FLAT
126AB	PROTO-CUNEIFORM NUMBER 7 N18
126AC	PROTO-CUNEIFORM NUMBER 7 N19
126AD	PROTO-CUNEIFORM NUMBER 7 N19 FLAT
126AE	PROTO-CUNEIFORM NUMBER 7 N20
126AF	PROTO-CUNEIFORM NUMBER 7 N23
126B0	PROTO-CUNEIFORM NUMBER 7 N34
126B1	PROTO-CUNEIFORM NUMBER 7 N34 FLAT
126B2	PROTO-CUNEIFORM NUMBER 7 N36
126B3	PROTO-CUNEIFORM NUMBER 7 N45
126B4	PROTO-CUNEIFORM NUMBER 7 N45 FLAT
126B5	PROTO-CUNEIFORM NUMBER 7 N48
126B6	PROTO-CUNEIFORM NUMBER 7 N51
126B7	PROTO-CUNEIFORM NUMBER 7 N51 FLAT
126B8	PROTO-CUNEIFORM NUMBER 7 N57
126B9	PROTO-CUNEIFORM NUMBER 8 N1
126BA	PROTO-CUNEIFORM NUMBER 8 N1 FLAT
126BB	PROTO-CUNEIFORM NUMBER 8 N2
126BC	PROTO-CUNEIFORM NUMBER 8 N8
126BD	PROTO-CUNEIFORM NUMBER 8 N14
126BE	PROTO-CUNEIFORM NUMBER 8 N14 FLAT
126BF	PROTO-CUNEIFORM NUMBER 8 N18
126C0	PROTO-CUNEIFORM NUMBER 8 N19
126C1	PROTO-CUNEIFORM NUMBER 8 N19 FLAT
126C2	PROTO-CUNEIFORM NUMBER 8 N20
126C3	PROTO-CUNEIFORM NUMBER 8 N34
126C4	PROTO-CUNEIFORM NUMBER 8 N34 FLAT
126C5	PROTO-CUNEIFORM NUMBER 8 N36
126C6	PROTO-CUNEIFORM NUMBER 8 N45 FLAT
126C7	PROTO-CUNEIFORM NUMBER 8 N51
126C8	PROTO-CUNEIFORM NUMBER 8 N51 FLAT
126C9	PROTO-CUNEIFORM NUMBER 8 N57
126CA	PROTO-CUNEIFORM NUMBER 8 N58

126CB	PROTO-CUNEIFORM NUMBER 9 N1
126CC	PROTO-CUNEIFORM NUMBER 9 N1 VARIANT 1
126CD	PROTO-CUNEIFORM NUMBER 9 N1 FLAT
126CE	PROTO-CUNEIFORM NUMBER 9 N2
126CF	PROTO-CUNEIFORM NUMBER 9 N8
126D0	PROTO-CUNEIFORM NUMBER 9 N14
126D1	PROTO-CUNEIFORM NUMBER 9 N14 FLAT
126D2	PROTO-CUNEIFORM NUMBER 9 N18
126D3	PROTO-CUNEIFORM NUMBER 9 N18 VARIANT 1
126D4	PROTO-CUNEIFORM NUMBER 9 N19
126D5	PROTO-CUNEIFORM NUMBER 9 N19 VARIANT 1
126D6	PROTO-CUNEIFORM NUMBER 9 N19 FLAT
126D7	PROTO-CUNEIFORM NUMBER 9 N20
126D8	PROTO-CUNEIFORM NUMBER 9 N34
126D9	PROTO-CUNEIFORM NUMBER 9 N34 FLAT
126DA	PROTO-CUNEIFORM NUMBER 9 N36
126DB	PROTO-CUNEIFORM NUMBER 9 N45
126DC	PROTO-CUNEIFORM NUMBER 9 N45 FLAT
126DD	PROTO-CUNEIFORM NUMBER 9 N51 FLAT
126DE	PROTO-CUNEIFORM NUMBER 9 N57
126DF	PROTO-CUNEIFORM NUMBER 9 N58
126E0	PROTO-CUNEIFORM NUMBER 10 N1
126E1	PROTO-CUNEIFORM NUMBER 10 N14
126E2	PROTO-CUNEIFORM NUMBER 10 N14 FLAT
126E3	PROTO-CUNEIFORM NUMBER 10 N57
126E4	PROTO-CUNEIFORM NUMBER 10 N58
126E5	PROTO-CUNEIFORM NUMBER 12 N14
126E6	PROTO-CUNEIFORM NUMBER 12 N58

Ideographic signs

126E7	PROTO-CUNEIFORM SIGN A
126E8	PROTO-CUNEIFORM SIGN A GUNU
126E9	PROTO-CUNEIFORM SIGN A TENU
126EA	PROTO-CUNEIFORM SIGN A2
126EB	PROTO-CUNEIFORM SIGN AB-A
126EC	PROTO-CUNEIFORM SIGN AB-A VARIANT 1
126ED	PROTO-CUNEIFORM SIGN AB-A GUNU
126EE	PROTO-CUNEIFORM SIGN AB-B
126EF	PROTO-CUNEIFORM SIGN AB2
126F0	PROTO-CUNEIFORM SIGN AB2 VARIANT 1
126F1	PROTO-CUNEIFORM SIGN ABGAL
126F2	PROTO-CUNEIFORM SIGN ABGAL VARIANT 1
126F3	PROTO-CUNEIFORM SIGN ABRIG
126F4	PROTO-CUNEIFORM SIGN ABZU
126F5	PROTO-CUNEIFORM SIGN AD-A
126F6	PROTO-CUNEIFORM SIGN AD-B
126F7	PROTO-CUNEIFORM SIGN AD-C
126F8	PROTO-CUNEIFORM SIGN ADAB
126F9	PROTO-CUNEIFORM SIGN ADDA
126FA	PROTO-CUNEIFORM SIGN ADDA TENU-2
126FB	PROTO-CUNEIFORM SIGN AGAR2
126FC	PROTO-CUNEIFORM SIGN AK-A
126FD	PROTO-CUNEIFORM SIGN AK-B
126FE	PROTO-CUNEIFORM SIGN AL
126FF	PROTO-CUNEIFORM SIGN ALAN-A
12700	PROTO-CUNEIFORM SIGN ALAN-B
12701	PROTO-CUNEIFORM SIGN ALAN-C
12702	PROTO-CUNEIFORM SIGN ALAN-D
12703	PROTO-CUNEIFORM SIGN ALAN-E
12704	PROTO-CUNEIFORM SIGN ALAN-F
12705	PROTO-CUNEIFORM SIGN ALIM
12706	PROTO-CUNEIFORM SIGN AM-A
12707	PROTO-CUNEIFORM SIGN AM-B
12708	PROTO-CUNEIFORM SIGN AMA-A
12709	PROTO-CUNEIFORM SIGN AMA-A VARIANT 1
1270A	PROTO-CUNEIFORM SIGN AMA-B

1270B	𐎶	PROTO-CUNEIFORM SIGN AMAR	1274D	𐎶	PROTO-CUNEIFORM SIGN BIR3-B VARIANT 1
1270C	𐎶	PROTO-CUNEIFORM SIGN AMAR VARIANT 1	1274E	𐎶	PROTO-CUNEIFORM SIGN BIR3-C
1270D	𐎶	PROTO-CUNEIFORM SIGN AMAR VARIANT 2	1274F	𐎶	PROTO-CUNEIFORM SIGN BU-A
1270E	𐎶	PROTO-CUNEIFORM SIGN AMAR GUNU	12750	𐎶	PROTO-CUNEIFORM SIGN BU-A VARIANT 1
1270F	𐎶	PROTO-CUNEIFORM SIGN AN	12751	𐎶	PROTO-CUNEIFORM SIGN BU-B
12710	𐎶	PROTO-CUNEIFORM SIGN AN VARIANT 1	12752	𐎶	PROTO-CUNEIFORM SIGN BU3
12711	𐎶	PROTO-CUNEIFORM SIGN AN VARIANT 2	12753	𐎶	PROTO-CUNEIFORM SIGN BULUG
12712	𐎶	PROTO-CUNEIFORM SIGN ANSZE-A	12754	𐎶	PROTO-CUNEIFORM SIGN BULUG3
12713	𐎶	PROTO-CUNEIFORM SIGN ANSZE-B	12755	𐎶	PROTO-CUNEIFORM SIGN BUR-A
12714	𐎶	PROTO-CUNEIFORM SIGN ANSZE-C	12756	𐎶	PROTO-CUNEIFORM SIGN BUR-B
12715	𐎶	PROTO-CUNEIFORM SIGN ANSZE-E	12757	𐎶	PROTO-CUNEIFORM SIGN BUR-C
12716	𐎶	PROTO-CUNEIFORM SIGN ANZU2	12758	𐎶	PROTO-CUNEIFORM SIGN BUR-D
12717	𐎶	PROTO-CUNEIFORM SIGN APIN-A	12759	𐎶	PROTO-CUNEIFORM SIGN BUR2
12718	𐎶	PROTO-CUNEIFORM SIGN APIN-B	1275A	𐎶	PROTO-CUNEIFORM SIGN DA-A
12719	𐎶	PROTO-CUNEIFORM SIGN APIN-C	1275B	𐎶	PROTO-CUNEIFORM SIGN DA-B
1271A	𐎶	PROTO-CUNEIFORM SIGN ARARMA2-A	1275C	𐎶	PROTO-CUNEIFORM SIGN DA-C
1271B	𐎶	PROTO-CUNEIFORM SIGN ARARMA2-A VARIANT 1	1275D	𐎶	PROTO-CUNEIFORM SIGN DA-D
1271C	𐎶	PROTO-CUNEIFORM SIGN ARARMA2-B	1275E	𐎶	PROTO-CUNEIFORM SIGN DAG
1271D	𐎶	PROTO-CUNEIFORM SIGN ARATTA	1275F	𐎶	PROTO-CUNEIFORM SIGN DAH
1271E	𐎶	PROTO-CUNEIFORM SIGN ASAL2	12760	𐎶	PROTO-CUNEIFORM SIGN DAM
1271F	𐎶	PROTO-CUNEIFORM SIGN ASAR	12761	𐎶	PROTO-CUNEIFORM SIGN DANNA
12720	𐎶	PROTO-CUNEIFORM SIGN ASZ2	12762	𐎶	PROTO-CUNEIFORM SIGN DAR-A
12721	𐎶	PROTO-CUNEIFORM SIGN AZ	12763	𐎶	PROTO-CUNEIFORM SIGN DAR-B
12722	𐎶	PROTO-CUNEIFORM SIGN AZU	12764	𐎶	PROTO-CUNEIFORM SIGN DAR-C
12723	𐎶	PROTO-CUNEIFORM SIGN BA	12765	𐎶	PROTO-CUNEIFORM SIGN DAR-D
12724	𐎶	PROTO-CUNEIFORM SIGN BAD	12766	𐎶	PROTO-CUNEIFORM SIGN DARA3-A
12725	𐎶	PROTO-CUNEIFORM SIGN BAD3-A	12767	𐎶	PROTO-CUNEIFORM SIGN DARA3-B
12726	𐎶	PROTO-CUNEIFORM SIGN BAD3-B1	12768	𐎶	PROTO-CUNEIFORM SIGN DARA3-C
12727	𐎶	PROTO-CUNEIFORM SIGN BAD3-B2	12769	𐎶	PROTO-CUNEIFORM SIGN DARA3-C VARIANT 1
12728	𐎶	PROTO-CUNEIFORM SIGN BAHAR2-A	1276A	𐎶	PROTO-CUNEIFORM SIGN DARA3-D
12729	𐎶	PROTO-CUNEIFORM SIGN BAHAR2-A VARIANT 1	1276B	𐎶	PROTO-CUNEIFORM SIGN DARA4-A1
1272A	𐎶	PROTO-CUNEIFORM SIGN BAHAR2-B	1276C	𐎶	PROTO-CUNEIFORM SIGN DARA4-A2
1272B	𐎶	PROTO-CUNEIFORM SIGN BAHAR2-B VARIANT 1	1276D	𐎶	PROTO-CUNEIFORM SIGN DARA4-A3
1272C	𐎶	PROTO-CUNEIFORM SIGN BAHAR2-C	1276E	𐎶	PROTO-CUNEIFORM SIGN DARA4-B
1272D	𐎶	PROTO-CUNEIFORM SIGN BALA-A	1276F	𐎶	PROTO-CUNEIFORM SIGN DARA4-C1
1272E	𐎶	PROTO-CUNEIFORM SIGN BALA-B	12770	𐎶	PROTO-CUNEIFORM SIGN DARA4-C2
1272F	𐎶	PROTO-CUNEIFORM SIGN BALA-B VARIANT 1	12771	𐎶	PROTO-CUNEIFORM SIGN DARA4-C3
12730	𐎶	PROTO-CUNEIFORM SIGN BALAG	12772	𐎶	PROTO-CUNEIFORM SIGN DARA4-C4
12731	𐎶	PROTO-CUNEIFORM SIGN BALAG VARIANT 1	12773	𐎶	PROTO-CUNEIFORM SIGN DARA4-C5
12732	𐎶	PROTO-CUNEIFORM SIGN BAN-A	12774	𐎶	PROTO-CUNEIFORM SIGN DI
12733	𐎶	PROTO-CUNEIFORM SIGN BAN-A VARIANT 1	12775	𐎶	PROTO-CUNEIFORM SIGN DI TENU
12734	𐎶	PROTO-CUNEIFORM SIGN BAN-A VARIANT 2	12776	𐎶	PROTO-CUNEIFORM SIGN DIB
12735	𐎶	PROTO-CUNEIFORM SIGN BAN-B	12777	𐎶	PROTO-CUNEIFORM SIGN DIB VARIANT 1
12736	𐎶	PROTO-CUNEIFORM SIGN BANSZUR-A	12778	𐎶	PROTO-CUNEIFORM SIGN DILMUN
12737	𐎶	PROTO-CUNEIFORM SIGN BANSZUR-A TENU	12779	𐎶	PROTO-CUNEIFORM SIGN DILMUN VARIANT 1
12738	𐎶	PROTO-CUNEIFORM SIGN BANSZUR-B1	1277A	𐎶	PROTO-CUNEIFORM SIGN DILMUN VARIANT 2
12739	𐎶	PROTO-CUNEIFORM SIGN BANSZUR-B2	1277B	𐎶	PROTO-CUNEIFORM SIGN DIM-A
1273A	𐎶	PROTO-CUNEIFORM SIGN BANSZUR-C	1277C	𐎶	PROTO-CUNEIFORM SIGN DIM-B
1273B	𐎶	PROTO-CUNEIFORM SIGN BAPPIR-A	1277D	𐎶	PROTO-CUNEIFORM SIGN DIM-C
1273C	𐎶	PROTO-CUNEIFORM SIGN BAPPIR-B	1277E	𐎶	PROTO-CUNEIFORM SIGN DIN
1273D	𐎶	PROTO-CUNEIFORM SIGN BAPPIR-C	1277F	𐎶	PROTO-CUNEIFORM SIGN DIN TENU
1273E	𐎶	PROTO-CUNEIFORM SIGN BAPPIR-D	12780	𐎶	PROTO-CUNEIFORM SIGN DU
1273F	𐎶	PROTO-CUNEIFORM SIGN BAPPIR-E	12781	𐎶	PROTO-CUNEIFORM SIGN DU GUNU
12740	𐎶	PROTO-CUNEIFORM SIGN BAPPIR-F	12782	𐎶	PROTO-CUNEIFORM SIGN DU7
12741	𐎶	PROTO-CUNEIFORM SIGN BAR	12783	𐎶	PROTO-CUNEIFORM SIGN DU6-A
12742	𐎶	PROTO-CUNEIFORM SIGN BARA3	12784	𐎶	PROTO-CUNEIFORM SIGN DU6-A VARIANT 1
12743	𐎶	PROTO-CUNEIFORM SIGN BARA2-A	12785	𐎶	PROTO-CUNEIFORM SIGN DU6-B
12744	𐎶	PROTO-CUNEIFORM SIGN BARA2-A VARIANT 1	12786	𐎶	PROTO-CUNEIFORM SIGN DU6-C
12745	𐎶	PROTO-CUNEIFORM SIGN BARA2-B	12787	𐎶	PROTO-CUNEIFORM SIGN DU8-A
12746	𐎶	PROTO-CUNEIFORM SIGN BARA2-B VARIANT 1	12788	𐎶	PROTO-CUNEIFORM SIGN DU8-B
12747	𐎶	PROTO-CUNEIFORM SIGN BIR-A	12789	𐎶	PROTO-CUNEIFORM SIGN DU8-B VARIANT 1
12748	𐎶	PROTO-CUNEIFORM SIGN BIR-B	1278A	𐎶	PROTO-CUNEIFORM SIGN DU8-C
12749	𐎶	PROTO-CUNEIFORM SIGN BIR-C	1278B	𐎶	PROTO-CUNEIFORM SIGN DU8-C GUNU
1274A	𐎶	PROTO-CUNEIFORM SIGN BIR3-A	1278C	𐎶	PROTO-CUNEIFORM SIGN DU8-C GUNU VARIANT 1
1274B	𐎶	PROTO-CUNEIFORM SIGN BIR3-A VARIANT 1	1278D	𐎶	PROTO-CUNEIFORM SIGN DUB-A
1274C	𐎶	PROTO-CUNEIFORM SIGN BIR3-B	1278E	𐎶	PROTO-CUNEIFORM SIGN DUB-B
			1278F	𐎶	PROTO-CUNEIFORM SIGN DUB-B VARIANT 1

12790		PROTO-CUNEIFORM SIGN DUB-B VARIANT 2	127D4		PROTO-CUNEIFORM SIGN EZINU-D
12791		PROTO-CUNEIFORM SIGN DUB-B VARIANT 3	127D5		PROTO-CUNEIFORM SIGN GA-A
12792		PROTO-CUNEIFORM SIGN DUB-B VARIANT 4	127D6		PROTO-CUNEIFORM SIGN GA-A VARIANT 1
12793		PROTO-CUNEIFORM SIGN DUB-C	127D7		PROTO-CUNEIFORM SIGN GA-A VARIANT 2
12794		PROTO-CUNEIFORM SIGN DUB-D	127D8		PROTO-CUNEIFORM SIGN GA-A VARIANT 3
12795		PROTO-CUNEIFORM SIGN DUB-E	127D9		PROTO-CUNEIFORM SIGN GA-A VARIANT 4
12796		PROTO-CUNEIFORM SIGN DUB-F	127DA		PROTO-CUNEIFORM SIGN GA-B
12797		PROTO-CUNEIFORM SIGN DUB2	127DB		PROTO-CUNEIFORM SIGN GA-C
12798		PROTO-CUNEIFORM SIGN DUG-A	127DC		PROTO-CUNEIFORM SIGN GA2-A1
12799		PROTO-CUNEIFORM SIGN DUG-A VARIANT 1	127DD		PROTO-CUNEIFORM SIGN GA2-A2
1279A		PROTO-CUNEIFORM SIGN DUG-A VARIANT 2	127DE		PROTO-CUNEIFORM SIGN GA2-A3
1279B		PROTO-CUNEIFORM SIGN DUG-B	127DF		PROTO-CUNEIFORM SIGN GA2-A4
1279C		PROTO-CUNEIFORM SIGN DUG-B VARIANT 1	127E0		PROTO-CUNEIFORM SIGN GA2-B
1279D		PROTO-CUNEIFORM SIGN DUG-C	127E1		PROTO-CUNEIFORM SIGN GA2-C
1279E		PROTO-CUNEIFORM SIGN DUG-C VARIANT 1	127E2		PROTO-CUNEIFORM SIGN GAAR-A1
1279F		PROTO-CUNEIFORM SIGN DUG-C TENU	127E3		PROTO-CUNEIFORM SIGN GAAR-A2
127A0		PROTO-CUNEIFORM SIGN DUG-D	127E4		PROTO-CUNEIFORM SIGN GAAR-B1
127A1		PROTO-CUNEIFORM SIGN DUGUD	127E5		PROTO-CUNEIFORM SIGN GAAR-B2
127A2		PROTO-CUNEIFORM SIGN DUR-A	127E6		PROTO-CUNEIFORM SIGN GADA-A
127A3		PROTO-CUNEIFORM SIGN DUR-B	127E7		PROTO-CUNEIFORM SIGN GADA-B
127A4		PROTO-CUNEIFORM SIGN DUR2	127E8		PROTO-CUNEIFORM SIGN GADA-B GUNU
127A5		PROTO-CUNEIFORM SIGN E-A	127E9		PROTO-CUNEIFORM SIGN GAL-A
127A6		PROTO-CUNEIFORM SIGN E-B	127EA		PROTO-CUNEIFORM SIGN GAL-B
127A7		PROTO-CUNEIFORM SIGN E-C	127EB		PROTO-CUNEIFORM SIGN GALGA-A
127A8		PROTO-CUNEIFORM SIGN E-D	127EC		PROTO-CUNEIFORM SIGN GALGA-B
127A9		PROTO-CUNEIFORM SIGN E-E	127ED		PROTO-CUNEIFORM SIGN GAN-A
127AA		PROTO-CUNEIFORM SIGN E2-A	127EE		PROTO-CUNEIFORM SIGN GAN-A VARIANT 1
127AB		PROTO-CUNEIFORM SIGN E2-B	127EF		PROTO-CUNEIFORM SIGN GAN-B
127AC		PROTO-CUNEIFORM SIGN E2-C	127F0		PROTO-CUNEIFORM SIGN GAN-B VARIANT 1
127AD		PROTO-CUNEIFORM SIGN E2-D	127F1		PROTO-CUNEIFORM SIGN GAN-B VARIANT 2
127AE		PROTO-CUNEIFORM SIGN E3-A	127F2		PROTO-CUNEIFORM SIGN GAN-B VARIANT 3
127AF		PROTO-CUNEIFORM SIGN E3-B	127F3		PROTO-CUNEIFORM SIGN GAN-C
127B0		PROTO-CUNEIFORM SIGN EDIN	127F4		PROTO-CUNEIFORM SIGN GAN-C VARIANT 1
127B1		PROTO-CUNEIFORM SIGN EN GUNU-A	127F5		PROTO-CUNEIFORM SIGN GAN-D
127B2		PROTO-CUNEIFORM SIGN EN GUNU-B	127F6		PROTO-CUNEIFORM SIGN GAN2
127B3		PROTO-CUNEIFORM SIGN EN-A	127F7		PROTO-CUNEIFORM SIGN GAR
127B4		PROTO-CUNEIFORM SIGN EN-A VARIANT 1	127F8		PROTO-CUNEIFORM SIGN GAR GUNU-A
127B5		PROTO-CUNEIFORM SIGN EN-A VARIANT 2	127F9		PROTO-CUNEIFORM SIGN GAR GUNU-B
127B6		PROTO-CUNEIFORM SIGN EN-A VARIANT 3	127FA		PROTO-CUNEIFORM SIGN GAR GUNU-C
127B7		PROTO-CUNEIFORM SIGN EN-B	127FB		PROTO-CUNEIFORM SIGN GAR3
127B8		PROTO-CUNEIFORM SIGN EN-B VARIANT 1	127FC		PROTO-CUNEIFORM SIGN GARA2-A
127B9		PROTO-CUNEIFORM SIGN EN-B TENU	127FD		PROTO-CUNEIFORM SIGN GARA2-B
127BA		PROTO-CUNEIFORM SIGN EN-C	127FE		PROTO-CUNEIFORM SIGN GAZI
127BB		PROTO-CUNEIFORM SIGN EN-C VARIANT 1	127FF		PROTO-CUNEIFORM SIGN GESZTIN-A
127BC		PROTO-CUNEIFORM SIGN EN-E	12800		PROTO-CUNEIFORM SIGN GESZTIN-C
127BD		PROTO-CUNEIFORM SIGN EN2	12801		PROTO-CUNEIFORM SIGN GESZTU-A
127BE		PROTO-CUNEIFORM SIGN ENDIB	12802		PROTO-CUNEIFORM SIGN GESZTU-A VARIANT 1
127BF		PROTO-CUNEIFORM SIGN ENGIZ	12803		PROTO-CUNEIFORM SIGN GESZTU-A VARIANT 2
127C0		PROTO-CUNEIFORM SIGN ENKUM	12804		PROTO-CUNEIFORM SIGN GESZTU-B
127C1		PROTO-CUNEIFORM SIGN ENKUM VARIANT 1	12805		PROTO-CUNEIFORM SIGN GESZTU-C3
127C2		PROTO-CUNEIFORM SIGN ENLIL	12806		PROTO-CUNEIFORM SIGN GESZTU-C3 VARIANT 1
127C3		PROTO-CUNEIFORM SIGN ENSI	12807		PROTO-CUNEIFORM SIGN GESZTU-C5
127C4		PROTO-CUNEIFORM SIGN ENSI2	12808		PROTO-CUNEIFORM SIGN GI
127C5		PROTO-CUNEIFORM SIGN ERIM-A	12809		PROTO-CUNEIFORM SIGN GI VARIANT 1
127C6		PROTO-CUNEIFORM SIGN ERIM-B1	1280A		PROTO-CUNEIFORM SIGN GI TENU
127C7		PROTO-CUNEIFORM SIGN ERIM-B2	1280B		PROTO-CUNEIFORM SIGN GI6
127C8		PROTO-CUNEIFORM SIGN ERIM2	1280C		PROTO-CUNEIFORM SIGN GI6 VARIANT 1
127C9		PROTO-CUNEIFORM SIGN ERIN	1280D		PROTO-CUNEIFORM SIGN GI4-A
127CA		PROTO-CUNEIFORM SIGN ESZDA	1280E		PROTO-CUNEIFORM SIGN GI4-B
127CB		PROTO-CUNEIFORM SIGN ESZGAR	1280F		PROTO-CUNEIFORM SIGN GIBIL
127CC		PROTO-CUNEIFORM SIGN EZEN-A	12810		PROTO-CUNEIFORM SIGN GIBIL TENU
127CD		PROTO-CUNEIFORM SIGN EZEN-A VARIANT 1	12811		PROTO-CUNEIFORM SIGN GIBIL6
127CE		PROTO-CUNEIFORM SIGN EZEN-B	12812		PROTO-CUNEIFORM SIGN GIG
127CF		PROTO-CUNEIFORM SIGN EZEN-B TENU	12813		PROTO-CUNEIFORM SIGN GIL
127D0		PROTO-CUNEIFORM SIGN EZEN-C	12814		PROTO-CUNEIFORM SIGN GIR-A
127D1		PROTO-CUNEIFORM SIGN EZINU-A	12815		PROTO-CUNEIFORM SIGN GIR-B
127D2		PROTO-CUNEIFORM SIGN EZINU-B			
127D3		PROTO-CUNEIFORM SIGN EZINU-C			

12816		PROTO-CUNEIFORM SIGN GIR-B VARIANT 1	12857		PROTO-CUNEIFORM SIGN HI GUNU-B
12817		PROTO-CUNEIFORM SIGN GIR-C	12858		PROTO-CUNEIFORM SIGN HI GUNU-C
12818		PROTO-CUNEIFORM SIGN GIR-D	12859		PROTO-CUNEIFORM SIGN HUB2
12819		PROTO-CUNEIFORM SIGN GIR3 GUNU-A	1285A		PROTO-CUNEIFORM SIGN I
1281A		PROTO-CUNEIFORM SIGN GIR3 GUNU-B	1285B		PROTO-CUNEIFORM SIGN IB-A
1281B		PROTO-CUNEIFORM SIGN GIR3 GUNU-C	1285C		PROTO-CUNEIFORM SIGN IB-A NUTILLU
1281C		PROTO-CUNEIFORM SIGN GIR4	1285D		PROTO-CUNEIFORM SIGN IB-B
1281D		PROTO-CUNEIFORM SIGN GIR2-A	1285E		PROTO-CUNEIFORM SIGN IDIGNA
1281E		PROTO-CUNEIFORM SIGN GIR2-B	1285F		PROTO-CUNEIFORM SIGN IDIGNA VARIANT 1
1281F		PROTO-CUNEIFORM SIGN GIR3-A	12860		PROTO-CUNEIFORM SIGN IG-A
12820		PROTO-CUNEIFORM SIGN GIR3-B	12861		PROTO-CUNEIFORM SIGN IG-B
12821		PROTO-CUNEIFORM SIGN GIR3-C	12862		PROTO-CUNEIFORM SIGN IGI
12822		PROTO-CUNEIFORM SIGN GISAL-A	12863		PROTO-CUNEIFORM SIGN IL
12823		PROTO-CUNEIFORM SIGN GISAL-B	12864		PROTO-CUNEIFORM SIGN ILDUM-A
12824		PROTO-CUNEIFORM SIGN GISZ	12865		PROTO-CUNEIFORM SIGN ILDUM-B
12825		PROTO-CUNEIFORM SIGN GISZ TENU	12866		PROTO-CUNEIFORM SIGN IM-A
12826		PROTO-CUNEIFORM SIGN GISZ-X	12867		PROTO-CUNEIFORM SIGN IM-A GUNU
12827		PROTO-CUNEIFORM SIGN GISZ3-A	12868		PROTO-CUNEIFORM SIGN IM-B
12828		PROTO-CUNEIFORM SIGN GISZ3-B	12869		PROTO-CUNEIFORM SIGN IN-B
12829		PROTO-CUNEIFORM SIGN GISZGAL	1286A		PROTO-CUNEIFORM SIGN IN-B VARIANT 1
1282A		PROTO-CUNEIFORM SIGN GISZGAL VARIANT 1	1286B		PROTO-CUNEIFORM SIGN IN-D
1282B		PROTO-CUNEIFORM SIGN GISZIMMAR-A1	1286C		PROTO-CUNEIFORM SIGN IR-A
1282C		PROTO-CUNEIFORM SIGN GISZIMMAR-A2	1286D		PROTO-CUNEIFORM SIGN IR-B
1282D		PROTO-CUNEIFORM SIGN GISZIMMAR-A3	1286E		PROTO-CUNEIFORM SIGN IR-C
1282E		PROTO-CUNEIFORM SIGN GISZIMMAR-B1	1286F		PROTO-CUNEIFORM SIGN IR-D
1282F		PROTO-CUNEIFORM SIGN GISZIMMAR-B1 VARIANT 1	12870		PROTO-CUNEIFORM SIGN IR11
12830		PROTO-CUNEIFORM SIGN GISZIMMAR-B1 VARIANT 2	12871		PROTO-CUNEIFORM SIGN IR11 VARIANT 1
12831		PROTO-CUNEIFORM SIGN GISZIMMAR-B3	12872		PROTO-CUNEIFORM SIGN IRHAN
12832		PROTO-CUNEIFORM SIGN GIZZAL-X	12873		PROTO-CUNEIFORM SIGN ISZ-A
12833		PROTO-CUNEIFORM SIGN GU	12874		PROTO-CUNEIFORM SIGN ISZ-A VARIANT 1
12834		PROTO-CUNEIFORM SIGN GU2	12875		PROTO-CUNEIFORM SIGN ISZ-B
12835		PROTO-CUNEIFORM SIGN GU4	12876		PROTO-CUNEIFORM SIGN ISZ-B VARIANT 1
12836		PROTO-CUNEIFORM SIGN GU4 VARIANT 1	12877		PROTO-CUNEIFORM SIGN ISZ-B VARIANT 2
12837		PROTO-CUNEIFORM SIGN GU4 GUNU	12878		PROTO-CUNEIFORM SIGN ISZ-B VARIANT 3
12838		PROTO-CUNEIFORM SIGN GU7	12879		PROTO-CUNEIFORM SIGN ISZ-B VARIANT 4
12839		PROTO-CUNEIFORM SIGN GU7 VARIANT 1	1287A		PROTO-CUNEIFORM SIGN ISZ-B VARIANT 5
1283A		PROTO-CUNEIFORM SIGN GUB3-A	1287B		PROTO-CUNEIFORM SIGN ISZ-C
1283B		PROTO-CUNEIFORM SIGN GUB3-B	1287C		PROTO-CUNEIFORM SIGN KA-A
1283C		PROTO-CUNEIFORM SIGN GUB3-C	1287D		PROTO-CUNEIFORM SIGN KA2-A
1283D		PROTO-CUNEIFORM SIGN GUB3-D	1287E		PROTO-CUNEIFORM SIGN KA2-B
1283E		PROTO-CUNEIFORM SIGN GUG2	1287F		PROTO-CUNEIFORM SIGN KA2-C
1283F		PROTO-CUNEIFORM SIGN GUG2 VARIANT 1	12880		PROTO-CUNEIFORM SIGN KA2-D
12840		PROTO-CUNEIFORM SIGN GUG2 TENU	12881		PROTO-CUNEIFORM SIGN KAB
12841		PROTO-CUNEIFORM SIGN GUKKAL-A	12882		PROTO-CUNEIFORM SIGN KAD4-A
12842		PROTO-CUNEIFORM SIGN GUKKAL-B	12883		PROTO-CUNEIFORM SIGN KAD4-B
12843		PROTO-CUNEIFORM SIGN GUKKAL-C	12884		PROTO-CUNEIFORM SIGN KAD4-C1
12844		PROTO-CUNEIFORM SIGN GUKKAL-D	12885		PROTO-CUNEIFORM SIGN KAD4-C2
12845		PROTO-CUNEIFORM SIGN GUL	12886		PROTO-CUNEIFORM SIGN KAK-A
12846		PROTO-CUNEIFORM SIGN GUM-A	12887		PROTO-CUNEIFORM SIGN KAK-B
12847		PROTO-CUNEIFORM SIGN GUM-B	12888		PROTO-CUNEIFORM SIGN KAL-A
12848		PROTO-CUNEIFORM SIGN GUM-B VARIANT 1	12889		PROTO-CUNEIFORM SIGN KAL-B1
12849		PROTO-CUNEIFORM SIGN GUM-B NUTILLU	1288A		PROTO-CUNEIFORM SIGN KAL-B1 VARIANT 1
1284A		PROTO-CUNEIFORM SIGN GUM-B NUTILLU VARIANT 1	1288B		PROTO-CUNEIFORM SIGN KAL-B2
1284B		PROTO-CUNEIFORM SIGN GUN3-A	1288C		PROTO-CUNEIFORM SIGN KALAM-A
1284C		PROTO-CUNEIFORM SIGN GUN3-B	1288D		PROTO-CUNEIFORM SIGN KALAM-B
1284D		PROTO-CUNEIFORM SIGN GUR	1288E		PROTO-CUNEIFORM SIGN KALAM-C
1284E		PROTO-CUNEIFORM SIGN GURUSZ-A	1288F		PROTO-CUNEIFORM SIGN KALAM-D
1284F		PROTO-CUNEIFORM SIGN GURUSZ-A VARIANT 1	12890		PROTO-CUNEIFORM SIGN KALAM-E
12850		PROTO-CUNEIFORM SIGN GURUSZ-B	12891		PROTO-CUNEIFORM SIGN KALAM-F
12851		PROTO-CUNEIFORM SIGN GURUSZDA	12892		PROTO-CUNEIFORM SIGN KAR
12852		PROTO-CUNEIFORM SIGN HAL	12893		PROTO-CUNEIFORM SIGN KAR2-A
12853		PROTO-CUNEIFORM SIGN HALUB	12894		PROTO-CUNEIFORM SIGN KAR2-B
12854		PROTO-CUNEIFORM SIGN HASZHUR	12895		PROTO-CUNEIFORM SIGN KASKAL
12855		PROTO-CUNEIFORM SIGN HI	12896		PROTO-CUNEIFORM SIGN KASKAL GUNU
12856		PROTO-CUNEIFORM SIGN HI GUNU-A	12897		PROTO-CUNEIFORM SIGN KASZ-A
			12898		PROTO-CUNEIFORM SIGN KASZ-A VARIANT 1
			12899		PROTO-CUNEIFORM SIGN KASZ-B
			1289A		PROTO-CUNEIFORM SIGN KASZ-B VARIANT 1

1289B	𐎶	PROTO-CUNEIFORM SIGN KASZ-B TENU	128DF	𐎶	PROTO-CUNEIFORM SIGN LAGAB-A
1289C	𐎶	PROTO-CUNEIFORM SIGN KASZ-C	128E0	𐎶	PROTO-CUNEIFORM SIGN LAGAB-B
1289D	𐎶	PROTO-CUNEIFORM SIGN KASZ-D	128E1	𐎶	PROTO-CUNEIFORM SIGN LAGAR-A
1289E	𐎶	PROTO-CUNEIFORM SIGN KESZ2	128E2	𐎶	PROTO-CUNEIFORM SIGN LAGAR-A REVERSED
1289F	𐎶	PROTO-CUNEIFORM SIGN KI	128E3	𐎶	PROTO-CUNEIFORM SIGN LAGAR-B1
128A0	𐎶	PROTO-CUNEIFORM SIGN KI NUTILLU	128E4	𐎶	PROTO-CUNEIFORM SIGN LAGAR-B2
128A1	𐎶	PROTO-CUNEIFORM SIGN KIB	128E5	𐎶	PROTO-CUNEIFORM SIGN LAGAR-C
128A2	𐎶	PROTO-CUNEIFORM SIGN KIB GUNU	128E6	𐎶	PROTO-CUNEIFORM SIGN LAHTAN2
128A3	𐎶	PROTO-CUNEIFORM SIGN KID-A	128E7	𐎶	PROTO-CUNEIFORM SIGN LAK025
128A4	𐎶	PROTO-CUNEIFORM SIGN KID-B	128E8	𐎶	PROTO-CUNEIFORM SIGN LAK050
128A5	𐎶	PROTO-CUNEIFORM SIGN KID-C	128E9	𐎶	PROTO-CUNEIFORM SIGN LAK172
128A6	𐎶	PROTO-CUNEIFORM SIGN KID-D	128EA	𐎶	PROTO-CUNEIFORM SIGN LAK251
128A7	𐎶	PROTO-CUNEIFORM SIGN KID-E	128EB	𐎶	PROTO-CUNEIFORM SIGN LAK350
128A8	𐎶	PROTO-CUNEIFORM SIGN KIN	128EC	𐎶	PROTO-CUNEIFORM SIGN LAK777
128A9	𐎶	PROTO-CUNEIFORM SIGN KIN2-A	128ED	𐎶	PROTO-CUNEIFORM SIGN LAL2-A
128AA	𐎶	PROTO-CUNEIFORM SIGN KIN2-C	128EE	𐎶	PROTO-CUNEIFORM SIGN LAL2-B
128AB	𐎶	PROTO-CUNEIFORM SIGN KIN2-D	128EF	𐎶	PROTO-CUNEIFORM SIGN LAL3-A
128AC	𐎶	PROTO-CUNEIFORM SIGN KIN2-E	128F0	𐎶	PROTO-CUNEIFORM SIGN LAL3-B
128AD	𐎶	PROTO-CUNEIFORM SIGN KINGAL	128F1	𐎶	PROTO-CUNEIFORM SIGN LAL3-C
128AE	𐎶	PROTO-CUNEIFORM SIGN KINGAL VARIANT 1	128F2	𐎶	PROTO-CUNEIFORM SIGN LAM-A
128AF	𐎶	PROTO-CUNEIFORM SIGN KIR11	128F3	𐎶	PROTO-CUNEIFORM SIGN LAM-B
128B0	𐎶	PROTO-CUNEIFORM SIGN KISAL-A1	128F4	𐎶	PROTO-CUNEIFORM SIGN LAM-B VARIANT 1
128B1	𐎶	PROTO-CUNEIFORM SIGN KISAL-A2	128F5	𐎶	PROTO-CUNEIFORM SIGN LAM-B VARIANT 2
128B2	𐎶	PROTO-CUNEIFORM SIGN KISAL-B1	128F6	𐎶	PROTO-CUNEIFORM SIGN LAM-B REVERSED
128B3	𐎶	PROTO-CUNEIFORM SIGN KISAL-B2	128F7	𐎶	PROTO-CUNEIFORM SIGN LAM-B TENU
128B4	𐎶	PROTO-CUNEIFORM SIGN KISAL-B2 TENU	128F8	𐎶	PROTO-CUNEIFORM SIGN LAM-B SHESSHIG
128B5	𐎶	PROTO-CUNEIFORM SIGN KISAL-B3	128F9	𐎶	PROTO-CUNEIFORM SIGN LAM-C
128B6	𐎶	PROTO-CUNEIFORM SIGN KISIM-A	128FA	𐎶	PROTO-CUNEIFORM SIGN LI
128B7	𐎶	PROTO-CUNEIFORM SIGN KISIM-B	128FB	𐎶	PROTO-CUNEIFORM SIGN LI VARIANT 1
128B8	𐎶	PROTO-CUNEIFORM SIGN KISIM-B VARIANT 1	128FC	𐎶	PROTO-CUNEIFORM SIGN LISZ
128B9	𐎶	PROTO-CUNEIFORM SIGN KISIM-B VARIANT 2	128FD	𐎶	PROTO-CUNEIFORM SIGN LU2
128BA	𐎶	PROTO-CUNEIFORM SIGN KISIM-B VARIANT 3	128FE	𐎶	PROTO-CUNEIFORM SIGN LU2 VARIANT 1
128BB	𐎶	PROTO-CUNEIFORM SIGN KISIM-C	128FF	𐎶	PROTO-CUNEIFORM SIGN LU2 VARIANT 2
128BC	𐎶	PROTO-CUNEIFORM SIGN KISZ	12900	𐎶	PROTO-CUNEIFORM SIGN LU2 TENU
128BD	𐎶	PROTO-CUNEIFORM SIGN KISZ VARIANT 1	12901	𐎶	PROTO-CUNEIFORM SIGN LUGAL
128BE	𐎶	PROTO-CUNEIFORM SIGN KISZIK-A	12902	𐎶	PROTO-CUNEIFORM SIGN LUGAL VARIANT 1
128BF	𐎶	PROTO-CUNEIFORM SIGN KISZIK-B	12903	𐎶	PROTO-CUNEIFORM SIGN LUM
128C0	𐎶	PROTO-CUNEIFORM SIGN KITI	12904	𐎶	PROTO-CUNEIFORM SIGN MA
128C1	𐎶	PROTO-CUNEIFORM SIGN KITI VARIANT 1	12905	𐎶	PROTO-CUNEIFORM SIGN MA VARIANT 1
128C2	𐎶	PROTO-CUNEIFORM SIGN KU-A	12906	𐎶	PROTO-CUNEIFORM SIGN MA2
128C3	𐎶	PROTO-CUNEIFORM SIGN KU-A TENU	12907	𐎶	PROTO-CUNEIFORM SIGN MAGUR-A
128C4	𐎶	PROTO-CUNEIFORM SIGN KU-B1	12908	𐎶	PROTO-CUNEIFORM SIGN MAGUR-B
128C5	𐎶	PROTO-CUNEIFORM SIGN KU-B2	12909	𐎶	PROTO-CUNEIFORM SIGN MAH-A
128C6	𐎶	PROTO-CUNEIFORM SIGN KU3-A	1290A	𐎶	PROTO-CUNEIFORM SIGN MAH-B
128C7	𐎶	PROTO-CUNEIFORM SIGN KU3-C	1290B	𐎶	PROTO-CUNEIFORM SIGN MAR-A
128C8	𐎶	PROTO-CUNEIFORM SIGN KU6-A	1290C	𐎶	PROTO-CUNEIFORM SIGN MAR-A VARIANT 1
128C9	𐎶	PROTO-CUNEIFORM SIGN KU6-A SHESSHIG	1290D	𐎶	PROTO-CUNEIFORM SIGN MAR-A TENU
128CA	𐎶	PROTO-CUNEIFORM SIGN KU6-C	1290E	𐎶	PROTO-CUNEIFORM SIGN MAR-B
128CB	𐎶	PROTO-CUNEIFORM SIGN KU6-D	1290F	+	PROTO-CUNEIFORM SIGN MASZ
128CC	𐎶	PROTO-CUNEIFORM SIGN KUN	12910	+	PROTO-CUNEIFORM SIGN MASZ2
128CD	𐎶	PROTO-CUNEIFORM SIGN KUR GUNU-A	12911	+	PROTO-CUNEIFORM SIGN MASZ2 GUNU
128CE	𐎶	PROTO-CUNEIFORM SIGN KUR GUNU-B	12912	𐎶	PROTO-CUNEIFORM SIGN ME-A
128CF	𐎶	PROTO-CUNEIFORM SIGN KUR-A	12913	𐎶	PROTO-CUNEIFORM SIGN ME-B
128D0	𐎶	PROTO-CUNEIFORM SIGN KUR-B	12914	𐎶	PROTO-CUNEIFORM SIGN ME3
128D1	𐎶	PROTO-CUNEIFORM SIGN KUR-C	12915	𐎶	PROTO-CUNEIFORM SIGN MEN-A
128D2	𐎶	PROTO-CUNEIFORM SIGN KUR-C VARIANT 1	12916	𐎶	PROTO-CUNEIFORM SIGN MEN-A VARIANT 1
128D3	𐎶	PROTO-CUNEIFORM SIGN KUR-D	12917	𐎶	PROTO-CUNEIFORM SIGN MEN-B
128D4	𐎶	PROTO-CUNEIFORM SIGN KUSZU2-A	12918	𐎶	PROTO-CUNEIFORM SIGN MES
128D5	𐎶	PROTO-CUNEIFORM SIGN KUSZU2-B	12919	𐎶	PROTO-CUNEIFORM SIGN MES VARIANT 1
128D6	𐎶	PROTO-CUNEIFORM SIGN KUSZU2-C	1291A	𐎶	PROTO-CUNEIFORM SIGN MIR-A
128D7	𐎶	PROTO-CUNEIFORM SIGN KUSZU2-D	1291B	𐎶	PROTO-CUNEIFORM SIGN MIR-B
128D8	𐎶	PROTO-CUNEIFORM SIGN KUSZU2-E	1291C	𐎶	PROTO-CUNEIFORM SIGN MU
128D9	𐎶	PROTO-CUNEIFORM SIGN KUSZU2-F	1291D	𐎶	PROTO-CUNEIFORM SIGN MUD
128DA	𐎶	PROTO-CUNEIFORM SIGN LA-B	1291E	𐎶	PROTO-CUNEIFORM SIGN MUD VARIANT 1
128DB	𐎶	PROTO-CUNEIFORM SIGN LA-C	1291F	𐎶	PROTO-CUNEIFORM SIGN MUD3-A
128DC	𐎶	PROTO-CUNEIFORM SIGN LA-D	12920	𐎶	PROTO-CUNEIFORM SIGN MUD3-A GUNU
128DD	𐎶	PROTO-CUNEIFORM SIGN LA-E	12921	𐎶	PROTO-CUNEIFORM SIGN MUD3-B
128DE	𐎶	PROTO-CUNEIFORM SIGN LA2			

12922		PROTO-CUNEIFORM SIGN MUD3-C	12960		PROTO-CUNEIFORM SIGN NESAG2-A VARIANT 1
12923		PROTO-CUNEIFORM SIGN MUD3-D	12961		PROTO-CUNEIFORM SIGN NESAG2-B
12924		PROTO-CUNEIFORM SIGN MUL	12962		PROTO-CUNEIFORM SIGN NESAG2-B VARIANT 1
12925		PROTO-CUNEIFORM SIGN MUN-A1	12963		PROTO-CUNEIFORM SIGN NESAG2-B TENU
12926		PROTO-CUNEIFORM SIGN MUN-A2	12964		PROTO-CUNEIFORM SIGN NI-A
12927		PROTO-CUNEIFORM SIGN MUN-A3	12965		PROTO-CUNEIFORM SIGN NI-A GUNU
12928		PROTO-CUNEIFORM SIGN MUN-A4	12966		PROTO-CUNEIFORM SIGN NI-B
12929		PROTO-CUNEIFORM SIGN MUN-B	12967		PROTO-CUNEIFORM SIGN NI2
1292A		PROTO-CUNEIFORM SIGN MUNSZUB-A	12968		PROTO-CUNEIFORM SIGN NIGIN
1292B		PROTO-CUNEIFORM SIGN MUNSZUB-B	12969		PROTO-CUNEIFORM SIGN NIM-A
1292C		PROTO-CUNEIFORM SIGN MUNU3	1296A		PROTO-CUNEIFORM SIGN NIM-B1
1292D		PROTO-CUNEIFORM SIGN MURUB2	1296B		PROTO-CUNEIFORM SIGN NIM-B2
1292E		PROTO-CUNEIFORM SIGN MUSZ	1296C		PROTO-CUNEIFORM SIGN NIM-B3
1292F		PROTO-CUNEIFORM SIGN MUSZ3-A	1296D		PROTO-CUNEIFORM SIGN NIMGIR
12930		PROTO-CUNEIFORM SIGN MUSZ3-A VARIANT 1	1296E		PROTO-CUNEIFORM SIGN NIMGIR VARIANT 1
12931		PROTO-CUNEIFORM SIGN MUSZ3-A VARIANT 2	1296F		PROTO-CUNEIFORM SIGN NIN
12932		PROTO-CUNEIFORM SIGN MUSZ3-A GUNU	12970		PROTO-CUNEIFORM SIGN NINDA2
12933		PROTO-CUNEIFORM SIGN MUSZ3-A GUNU VARIANT 1	12971		PROTO-CUNEIFORM SIGN NINDA2 VARIANT 1
12934		PROTO-CUNEIFORM SIGN MUSZ3-B	12972		PROTO-CUNEIFORM SIGN NINKUM
12935		PROTO-CUNEIFORM SIGN MUSZEN	12973		PROTO-CUNEIFORM SIGN NINLIL
12936		PROTO-CUNEIFORM SIGN NA-A	12974		PROTO-CUNEIFORM SIGN NIR-A
12937		PROTO-CUNEIFORM SIGN NA-B	12975		PROTO-CUNEIFORM SIGN NIR-B
12938		PROTO-CUNEIFORM SIGN NA-C	12976		PROTO-CUNEIFORM SIGN NU
12939		PROTO-CUNEIFORM SIGN NA-D	12977		PROTO-CUNEIFORM SIGN NU GUNU
1293A		PROTO-CUNEIFORM SIGN NA2-A	12978		PROTO-CUNEIFORM SIGN NU11
1293B		PROTO-CUNEIFORM SIGN NA2-A VARIANT 1	12979		PROTO-CUNEIFORM SIGN NU11 TENU
1293C		PROTO-CUNEIFORM SIGN NA2-B1	1297A		PROTO-CUNEIFORM SIGN NUMUN
1293D		PROTO-CUNEIFORM SIGN NA2-B2	1297B		PROTO-CUNEIFORM SIGN NUMUN2
1293E		PROTO-CUNEIFORM SIGN NAB	1297C		PROTO-CUNEIFORM SIGN NUN-A
1293F		PROTO-CUNEIFORM SIGN NAB VARIANT 1	1297D		PROTO-CUNEIFORM SIGN NUN-B
12940		PROTO-CUNEIFORM SIGN NAB VARIANT 2	1297E		PROTO-CUNEIFORM SIGN NUN-C
12941		PROTO-CUNEIFORM SIGN NAGA-A	1297F		PROTO-CUNEIFORM SIGN NUN-C VARIANT 1
12942		PROTO-CUNEIFORM SIGN NAGA-B	12980		PROTO-CUNEIFORM SIGN NUN-C VARIANT 2
12943		PROTO-CUNEIFORM SIGN NAGAR-A	12981		PROTO-CUNEIFORM SIGN NUN-C VARIANT 3
12944		PROTO-CUNEIFORM SIGN NAGAR-A VARIANT 1	12982		PROTO-CUNEIFORM SIGN NUN-D
12945		PROTO-CUNEIFORM SIGN NAGAR-A VARIANT 2	12983		PROTO-CUNEIFORM SIGN NUNUZ-A0
12946		PROTO-CUNEIFORM SIGN NAGAR-A VARIANT 3	12984		PROTO-CUNEIFORM SIGN NUNUZ-A1
12947		PROTO-CUNEIFORM SIGN NAGAR-B	12985		PROTO-CUNEIFORM SIGN NUNUZ-A1 TENU
12948		PROTO-CUNEIFORM SIGN NAGAR-B VARIANT 1	12986		PROTO-CUNEIFORM SIGN NUNUZ-A2
12949		PROTO-CUNEIFORM SIGN NAM-A	12987		PROTO-CUNEIFORM SIGN NUNUZ-B1
1294A		PROTO-CUNEIFORM SIGN NAM-B	12988		PROTO-CUNEIFORM SIGN NUNUZ-B2
1294B		PROTO-CUNEIFORM SIGN NAM-C	12989		PROTO-CUNEIFORM SIGN NUNUZ-C
1294C		PROTO-CUNEIFORM SIGN NAM-D	1298A		PROTO-CUNEIFORM SIGN NUNUZ-C VARIANT 1
1294D		PROTO-CUNEIFORM SIGN NAM2	1298B		PROTO-CUNEIFORM SIGN NUNUZ-C VARIANT 2
1294E		PROTO-CUNEIFORM SIGN NAM2 GUNU	1298C		PROTO-CUNEIFORM SIGN NUNUZ-C VARIANT 3
1294F		PROTO-CUNEIFORM SIGN NAM2 TENU	1298D		PROTO-CUNEIFORM SIGN PA-A
12950		PROTO-CUNEIFORM SIGN NAMESZDA	1298E		PROTO-CUNEIFORM SIGN PA-A VARIANT 1
12951		PROTO-CUNEIFORM SIGN NAMESZDA VARIANT 1	1298F		PROTO-CUNEIFORM SIGN PA-A VARIANT 2
12952		PROTO-CUNEIFORM SIGN NANNA-A	12990		PROTO-CUNEIFORM SIGN PA-B
12953		PROTO-CUNEIFORM SIGN NANNA-A VARIANT 1	12991		PROTO-CUNEIFORM SIGN PA3
12954		PROTO-CUNEIFORM SIGN NANNA-B	12992		PROTO-CUNEIFORM SIGN PAD-A
12955		PROTO-CUNEIFORM SIGN NANSZE-A	12993		PROTO-CUNEIFORM SIGN PAD-B
12956		PROTO-CUNEIFORM SIGN NANSZE-B	12994		PROTO-CUNEIFORM SIGN PAP-A
12957		PROTO-CUNEIFORM SIGN NAR	12995		PROTO-CUNEIFORM SIGN PAP-A TENU
12958		PROTO-CUNEIFORM SIGN NE-A	12996		PROTO-CUNEIFORM SIGN PAP-B
12959		PROTO-CUNEIFORM SIGN NE-A VARIANT 1	12997		PROTO-CUNEIFORM SIGN PAP-B VARIANT 1
1295A		PROTO-CUNEIFORM SIGN NE-A VARIANT 2	12998		PROTO-CUNEIFORM SIGN PIRIG-A1
1295B		PROTO-CUNEIFORM SIGN NE-B	12999		PROTO-CUNEIFORM SIGN PIRIG-A2
1295C		PROTO-CUNEIFORM SIGN NE-C	1299A		PROTO-CUNEIFORM SIGN PIRIG-A3
1295D		PROTO-CUNEIFORM SIGN NE-D	1299B		PROTO-CUNEIFORM SIGN PIRIG-B1
1295E		PROTO-CUNEIFORM SIGN NERGAL-X	1299C		PROTO-CUNEIFORM SIGN PIRIG-B2
1295F		PROTO-CUNEIFORM SIGN NESAG2-A	1299D		PROTO-CUNEIFORM SIGN PU2
			1299E		PROTO-CUNEIFORM SIGN RA
			1299F		PROTO-CUNEIFORM SIGN RAD-A

129A0	𐎶	PROTO-CUNEIFORM SIGN RAD-A GUNU	129E2	𐎶𐎶	PROTO-CUNEIFORM SIGN SILANITA
129A1	𐎶𐎶	PROTO-CUNEIFORM SIGN RAD-A TENU	129E3	𐎶𐎶	PROTO-CUNEIFORM SIGN SIMUG
129A2	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN RAD-B	129E4	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIMUG VARIANT 1
129A3	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN RI	129E5	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIPA
129A4	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN RI-X	129E6	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SU-A
129A5	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN RI8-A	129E7	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SU-A VARIANT 1
129A6	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN RI8-B	129E8	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SU-B
129A7	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN RU	129E9	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SU3
129A8	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN RU VARIANT 1	129EA	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUG
129A9	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN RU TENU	129EB	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUG5
129AA	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SA-A	129EC	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUG
129AB	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SA-C	129ED	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUHUR
129AC	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SA-C VARIANT 1	129EE	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUHUR GUNU
129AD	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SAG	129EF	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUHUR NUTILLU
129AE	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SAG VARIANT 1	129F0	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUKAL
129AF	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SAG VARIANT 2	129F1	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUKUD
129B0	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SAG GUNU	129F2	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUKUD GUNU-A
129B1	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SAG NUTILLU	129F3	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUKUD GUNU-B
129B2	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SAGSZU	129F4	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUKUD GUNU-B VARIANT 1
129B3	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SAL	129F5	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUKUD GUNU-C
129B4	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SANGA-A	129F6	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUKUD GUNU-D
129B5	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SANGA-A VARIANT 1	129F7	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUM-A
129B6	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SANGA-A VARIANT 2	129F8	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUM-A VARIANT 1
129B7	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SANGA-B	129F9	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUM-A TENU
129B8	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SANGA-B VARIANT 1	129FA	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUM-B
129B9	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SANGA-C	129FB	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUMASZ
129BA	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SAR-A	129FC	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUR
129BB	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SAR-B	129FD	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SUSA
129BC	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SAR-C	129FE	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZA
129BD	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SI	129FF	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZA VARIANT 1
129BE	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SI VARIANT 1	12A00	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZA VARIANT 2
129BF	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SI4-A	12A01	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZA GUNU
129C0	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SI4-B	12A02	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZA3-A1
129C1	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SI4-C	12A03	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZA3-A2
129C2	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SI4-D	12A04	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZA3-B
129C3	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SI4-D VARIANT 1	12A05	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZA3-C
129C4	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SI4-F	12A06	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZA3-D
129C5	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SI4-F VARIANT 1	12A07	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZAB-A
129C6	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG	12A08	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZAB-A VARIANT 1
129C7	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG GUNU	12A09	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZAB-B
129C8	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG4	12A0A	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZAB-B VARIANT 1
129C9	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG7	12A0B	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZAGAN
129CA	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG7 VARIANT 1	12A0C	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZAGAN VARIANT 1
129CB	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG2-A1	12A0D	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZAGINA
129CC	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG2-A2	12A0E	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SHAH2-A
129CD	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG2-A3	12A0F	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SHAH2-B
129CE	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG2-A3 VARIANT 1	12A10	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SHAH2-C
129CF	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG2-A3 VARIANT 2	12A11	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZAKIR-A
129D0	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG2-A4	12A12	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZAKIR-B
129D1	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG2-B	12A13	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZAKIR-C
129D2	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG2-C1	12A14	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZAM2
129D3	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG2-C2	12A15	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZANDANA-A
129D4	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG2-D1	12A16	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZANDANA-B
129D5	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG2-D2	12A17	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZE-A
129D6	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG2-D2 VARIANT 1	12A18	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZE-A TENU
129D7	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG2-D3	12A19	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZE-B
129D8	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG2-D4	12A1A	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZE-C
129D9	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIG2-E	12A1B	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZE3
129DA	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SIKIL	12A1C	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZE3 VARIANT 1
129DB	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SILA3-A	12A1D	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZE3 TENU
129DC	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SILA3-B	12A1E	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZE3 TENU VARIANT 1
129DD	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SILA3-C	12A1F	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZEG9
129DE	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SILA4-A	12A20	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZELU
129DF	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SILA4-B	12A21	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZEN-A
129E0	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SILA4-C	12A22	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZEN-A VARIANT 1
129E1	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SILA4-D	12A23	𐎶𐎶𐎶	PROTO-CUNEIFORM SIGN SZEN-B

12A24	𐎶	PROTO-CUNEIFORM SIGN SZEN-B VARIANT 1	12A66	𐎶	PROTO-CUNEIFORM SIGN TAR-A
12A25	𐎶	PROTO-CUNEIFORM SIGN SZEN-C	12A67	𐎶	PROTO-CUNEIFORM SIGN TAR-D
12A26	𐎶	PROTO-CUNEIFORM SIGN SZEN-C TENU	12A68	𐎶	PROTO-CUNEIFORM SIGN TE
12A27	𐎶	PROTO-CUNEIFORM SIGN SZEN-D	12A69	𐎶	PROTO-CUNEIFORM SIGN TI
12A28	𐎶	PROTO-CUNEIFORM SIGN SZEN-D VARIANT 1	12A6A	𐎶	PROTO-CUNEIFORM SIGN TI VARIANT 1
12A29	𐎶	PROTO-CUNEIFORM SIGN SZEN-D VARIANT 2	12A6B	𐎶	PROTO-CUNEIFORM SIGN TI GUNU
12A2A	𐎶	PROTO-CUNEIFORM SIGN SZEN-E	12A6C	𐎶	PROTO-CUNEIFORM SIGN TI REVERSED
12A2B	𐎶	PROTO-CUNEIFORM SIGN SZENNUR-A	12A6D	𐎶	PROTO-CUNEIFORM SIGN TI TENU
12A2C	𐎶	PROTO-CUNEIFORM SIGN SZENNUR-B	12A6E	𐎶	PROTO-CUNEIFORM SIGN TIDNUM
12A2D	𐎶	PROTO-CUNEIFORM SIGN SZESZ-A	12A6F	𐎶	PROTO-CUNEIFORM SIGN TILLA2
12A2E	𐎶	PROTO-CUNEIFORM SIGN SZESZ-A VARIANT 1	12A70	𐎶	PROTO-CUNEIFORM SIGN TU-A
12A2F	𐎶	PROTO-CUNEIFORM SIGN SZESZ-B	12A71	𐎶	PROTO-CUNEIFORM SIGN TU-B
12A30	𐎶	PROTO-CUNEIFORM SIGN SZIDIM	12A72	𐎶	PROTO-CUNEIFORM SIGN TU-C
12A31	𐎶	PROTO-CUNEIFORM SIGN SZIDIM TENU	12A73	𐎶	PROTO-CUNEIFORM SIGN TUG2-A
12A32	𐎶	PROTO-CUNEIFORM SIGN SZIM-A	12A74	𐎶	PROTO-CUNEIFORM SIGN TUG2-A GUNU
12A33	𐎶	PROTO-CUNEIFORM SIGN SZIM-A VARIANT 1	12A75	𐎶	PROTO-CUNEIFORM SIGN TUG2-A GUNU VARIANT 1
12A34	𐎶	PROTO-CUNEIFORM SIGN SZIM-A VARIANT 2	12A76	𐎶	PROTO-CUNEIFORM SIGN TUG2-B
12A35	𐎶	PROTO-CUNEIFORM SIGN SZIM-B	12A77	𐎶	PROTO-CUNEIFORM SIGN TUG2-C
12A36	𐎶	PROTO-CUNEIFORM SIGN SZIR-A	12A78	●	PROTO-CUNEIFORM SIGN TUG2-D
12A37	𐎶	PROTO-CUNEIFORM SIGN SZIR-A VARIANT 1	12A79	𐎶	PROTO-CUNEIFORM SIGN TUM-A
12A38	𐎶	PROTO-CUNEIFORM SIGN SZIR-B	12A7A	𐎶	PROTO-CUNEIFORM SIGN TUM-A GUNU
12A39	𐎶	PROTO-CUNEIFORM SIGN SZIR-B VARIANT 1	12A7B	𐎶	PROTO-CUNEIFORM SIGN TUM-B
12A3A	𐎶	PROTO-CUNEIFORM SIGN SZIR-B VARIANT 2	12A7C	𐎶	PROTO-CUNEIFORM SIGN TUM-C
12A3B	𐎶	PROTO-CUNEIFORM SIGN SZITA GUNU-A	12A7D	𐎶	PROTO-CUNEIFORM SIGN TUM-D
12A3C	𐎶	PROTO-CUNEIFORM SIGN SZITA GUNU-A VARIANT 1	12A7E	𐎶	PROTO-CUNEIFORM SIGN TUN3-A
12A3D	𐎶	PROTO-CUNEIFORM SIGN SZITA GUNU-B	12A7F	𐎶	PROTO-CUNEIFORM SIGN TUN3-B
12A3E	𐎶	PROTO-CUNEIFORM SIGN SZITA-A1	12A80	𐎶	PROTO-CUNEIFORM SIGN TUN3-C
12A3F	𐎶	PROTO-CUNEIFORM SIGN SZITA-A2	12A81	𐎶	PROTO-CUNEIFORM SIGN TUR
12A40	𐎶	PROTO-CUNEIFORM SIGN SZITA-A3	12A82	𐎶	PROTO-CUNEIFORM SIGN TUR VARIANT 1
12A41	𐎶	PROTO-CUNEIFORM SIGN SZITA-B1	12A83	𐎶	PROTO-CUNEIFORM SIGN TUR VARIANT 2
12A42	𐎶	PROTO-CUNEIFORM SIGN SZITA-B2	12A84	𐎶	PROTO-CUNEIFORM SIGN TUR VARIANT 3
12A43	𐎶	PROTO-CUNEIFORM SIGN SZITA-B3	12A85	𐎶	PROTO-CUNEIFORM SIGN TUR GUNU
12A44	𐎶	PROTO-CUNEIFORM SIGN SZITA-C	12A86	𐎶	PROTO-CUNEIFORM SIGN TUR3-A
12A45	𐎶	PROTO-CUNEIFORM SIGN SZU	12A87	𐎶	PROTO-CUNEIFORM SIGN TUR3-A NUTILLU
12A46	𐎶	PROTO-CUNEIFORM SIGN SZU GUNU	12A88	𐎶	PROTO-CUNEIFORM SIGN TUR3-B
12A47	𐎶	PROTO-CUNEIFORM SIGN SZU2	12A89	𐎶	PROTO-CUNEIFORM SIGN TUR3-C
12A48	𐎶	PROTO-CUNEIFORM SIGN SZU2 VARIANT 1	12A8A	𐎶	PROTO-CUNEIFORM SIGN U4
12A49	𐎶	PROTO-CUNEIFORM SIGN SZU12	12A8B	𐎶	PROTO-CUNEIFORM SIGN U4 TENU
12A4A	𐎶	PROTO-CUNEIFORM SIGN SZU SHESHIG	12A8C	𐎶	PROTO-CUNEIFORM SIGN U8
12A4B	𐎶	PROTO-CUNEIFORM SIGN SZUBUR	12A8D	𐎶	PROTO-CUNEIFORM SIGN U8 VARIANT 1
12A4C	𐎶	PROTO-CUNEIFORM SIGN SZUM	12A8E	𐎶	PROTO-CUNEIFORM SIGN U8 VARIANT 2
12A4D	𐎶	PROTO-CUNEIFORM SIGN SZUR2-A	12A8F	𐎶	PROTO-CUNEIFORM SIGN U8 VARIANT 3
12A4E	𐎶	PROTO-CUNEIFORM SIGN SZUR2-B	12A90	𐎶	PROTO-CUNEIFORM SIGN U2-A
12A4F	𐎶	PROTO-CUNEIFORM SIGN SZURUPPAK-A	12A91	𐎶	PROTO-CUNEIFORM SIGN U2-B
12A50	𐎶	PROTO-CUNEIFORM SIGN SZURUPPAK-A VARIANT 1	12A92	𐎶	PROTO-CUNEIFORM SIGN U2-B VARIANT 1
12A51	𐎶	PROTO-CUNEIFORM SIGN SZURUPPAK-B	12A93	𐎶	PROTO-CUNEIFORM SIGN U2-B VARIANT 2
12A52	𐎶	PROTO-CUNEIFORM SIGN SZURUPPAK-B VARIANT 1	12A94	𐎶	PROTO-CUNEIFORM SIGN U2-C
12A53	𐎶	PROTO-CUNEIFORM SIGN SZURUPPAK-C	12A95	𐎶	PROTO-CUNEIFORM SIGN UB
12A54	𐎶	PROTO-CUNEIFORM SIGN TA-A	12A96	𐎶	PROTO-CUNEIFORM SIGN UBI-A
12A55	𐎶	PROTO-CUNEIFORM SIGN TA-B	12A97	𐎶	PROTO-CUNEIFORM SIGN UBI-C
12A56	𐎶	PROTO-CUNEIFORM SIGN TA-C	12A98	𐎶	PROTO-CUNEIFORM SIGN UBI-C VARIANT 1
12A57	𐎶	PROTO-CUNEIFORM SIGN TA-D	12A99	𐎶	PROTO-CUNEIFORM SIGN UD5-A
12A58	𐎶	PROTO-CUNEIFORM SIGN TA-E	12A9A	𐎶	PROTO-CUNEIFORM SIGN UD5-A VARIANT 1
12A59	𐎶	PROTO-CUNEIFORM SIGN TA-F	12A9B	𐎶	PROTO-CUNEIFORM SIGN UD5-A VARIANT 2
12A5A	𐎶	PROTO-CUNEIFORM SIGN TAG-A1	12A9C	𐎶	PROTO-CUNEIFORM SIGN UD5-A GUNU
12A5B	𐎶	PROTO-CUNEIFORM SIGN TAG-A1 TENU	12A9D	𐎶	PROTO-CUNEIFORM SIGN UD5-B
12A5C	𐎶	PROTO-CUNEIFORM SIGN TAG-A2	12A9E	𐎶	PROTO-CUNEIFORM SIGN UD5-C
12A5D	𐎶	PROTO-CUNEIFORM SIGN TAG-A3	12A9F	𐎶	PROTO-CUNEIFORM SIGN UDU-A
12A5E	𐎶	PROTO-CUNEIFORM SIGN TAG-A4	12AA0	𐎶	PROTO-CUNEIFORM SIGN UDU-B
12A5F	𐎶	PROTO-CUNEIFORM SIGN TAG-B	12AA1	𐎶	PROTO-CUNEIFORM SIGN UDU-C
12A60	𐎶	PROTO-CUNEIFORM SIGN TAG-C	12AA2	𐎶	PROTO-CUNEIFORM SIGN UDUNITA-A
12A61	𐎶	PROTO-CUNEIFORM SIGN TAG-D	12AA3	𐎶	PROTO-CUNEIFORM SIGN UDUNITA-B
12A62	𐎶	PROTO-CUNEIFORM SIGN TAK4-A	12AA4	𐎶	PROTO-CUNEIFORM SIGN UDUNITA-C
12A63	𐎶	PROTO-CUNEIFORM SIGN TAK4-A VARIANT 1	12AA5	𐎶	PROTO-CUNEIFORM SIGN UET2 405
12A64	𐎶	PROTO-CUNEIFORM SIGN TAK4-A NUTILLU	12AA6	𐎶	PROTO-CUNEIFORM SIGN UH
12A65	𐎶	PROTO-CUNEIFORM SIGN TAK4-C	12AA7	𐎶	PROTO-CUNEIFORM SIGN UH3-A
			12AA8	𐎶	PROTO-CUNEIFORM SIGN UH3-A TENU

12AA9		PROTO-CUNEIFORM SIGN UH3-B	12AEB		PROTO-CUNEIFORM SIGN UTUL-B
12AAA		PROTO-CUNEIFORM SIGN UKKIN-A	12AEC		PROTO-CUNEIFORM SIGN UTUL-C
12AAB		PROTO-CUNEIFORM SIGN UKKIN-A VARIANT 1	12AED		PROTO-CUNEIFORM SIGN UTUL-D
12AAC		PROTO-CUNEIFORM SIGN UKKIN-B	12AEE		PROTO-CUNEIFORM SIGN UZU
12AAD		PROTO-CUNEIFORM SIGN UKKIN-B VARIANT 1	12AEF		PROTO-CUNEIFORM SIGN ZA-X
12AAE		PROTO-CUNEIFORM SIGN UKKIN-C	12AF0		PROTO-CUNEIFORM SIGN ZABALAM-A
12AAF		PROTO-CUNEIFORM SIGN UMBIN-A	12AF1		PROTO-CUNEIFORM SIGN ZABALAM-B
12AB0		PROTO-CUNEIFORM SIGN UMBIN-B1	12AF2		PROTO-CUNEIFORM SIGN ZADIM
12AB1		PROTO-CUNEIFORM SIGN UMBIN-B2	12AF3		PROTO-CUNEIFORM SIGN ZAG-A
12AB2		PROTO-CUNEIFORM SIGN UMBIN-C	12AF4		PROTO-CUNEIFORM SIGN ZAG-A VARIANT 1
12AB3		PROTO-CUNEIFORM SIGN UMUN2	12AF5		PROTO-CUNEIFORM SIGN ZAG-B
12AB4		PROTO-CUNEIFORM SIGN UMUN2 VARIANT 1	12AF6		PROTO-CUNEIFORM SIGN ZAG-C
12AB5		PROTO-CUNEIFORM SIGN UNUG-A	12AF7		PROTO-CUNEIFORM SIGN ZAR-A
12AB6		PROTO-CUNEIFORM SIGN UNUG-A VARIANT 1	12AF8		PROTO-CUNEIFORM SIGN ZAR-B1
12AB7		PROTO-CUNEIFORM SIGN UNUG-A SHESSHIG	12AF9		PROTO-CUNEIFORM SIGN ZAR-B2
12AB8		PROTO-CUNEIFORM SIGN UNUG-B	12AFA		PROTO-CUNEIFORM SIGN ZAR-C
12AB9		PROTO-CUNEIFORM SIGN UNUG-C	12AFB		PROTO-CUNEIFORM SIGN ZATU620
12ABA		PROTO-CUNEIFORM SIGN UR-A	12AFC		PROTO-CUNEIFORM SIGN ZATU622
12ABB		PROTO-CUNEIFORM SIGN UR-A GUNU	12AFD		PROTO-CUNEIFORM SIGN ZATU623
12ABC		PROTO-CUNEIFORM SIGN UR-B	12AFE		PROTO-CUNEIFORM SIGN ZATU623 VARIANT 1
12ABD		PROTO-CUNEIFORM SIGN UR-C	12AFF		PROTO-CUNEIFORM SIGN ZATU623 VARIANT 2
12ABE		PROTO-CUNEIFORM SIGN UR2	12B00		PROTO-CUNEIFORM SIGN ZATU625
12ABF		PROTO-CUNEIFORM SIGN UR3-A1	12B01		PROTO-CUNEIFORM SIGN ZATU625 VARIANT 1
12AC0		PROTO-CUNEIFORM SIGN UR3-A1 VARIANT 1	12B02		PROTO-CUNEIFORM SIGN ZATU627
12AC1		PROTO-CUNEIFORM SIGN UR3-A2	12B03		PROTO-CUNEIFORM SIGN ZATU629
12AC2		PROTO-CUNEIFORM SIGN UR3-A3	12B04		PROTO-CUNEIFORM SIGN ZATU629 VARIANT 1
12AC3		PROTO-CUNEIFORM SIGN UR3-B1	12B05		PROTO-CUNEIFORM SIGN ZATU630
12AC4		PROTO-CUNEIFORM SIGN UR3-B2	12B06		PROTO-CUNEIFORM SIGN ZATU631
12AC5		PROTO-CUNEIFORM SIGN UR4-A	12B07		PROTO-CUNEIFORM SIGN ZATU634
12AC6		PROTO-CUNEIFORM SIGN UR4-B	12B08		PROTO-CUNEIFORM SIGN ZATU635
12AC7		PROTO-CUNEIFORM SIGN UR4-C	12B09		PROTO-CUNEIFORM SIGN ZATU636
12AC8		PROTO-CUNEIFORM SIGN UR5-A	12B0A		PROTO-CUNEIFORM SIGN ZATU636 VARIANT 1
12AC9		PROTO-CUNEIFORM SIGN UR5-B	12B0B		PROTO-CUNEIFORM SIGN ZATU637
12ACA		PROTO-CUNEIFORM SIGN URI	12B0C		PROTO-CUNEIFORM SIGN ZATU639
12ACB		PROTO-CUNEIFORM SIGN URI2	12B0D		PROTO-CUNEIFORM SIGN ZATU640
12ACC		PROTO-CUNEIFORM SIGN URI5	12B0E		PROTO-CUNEIFORM SIGN ZATU641
12ACD		PROTO-CUNEIFORM SIGN URI3-A	12B0F		PROTO-CUNEIFORM SIGN ZATU642
12ACE		PROTO-CUNEIFORM SIGN URI3-A VARIANT 1	12B10		PROTO-CUNEIFORM SIGN ZATU643
12ACF		PROTO-CUNEIFORM SIGN URI3-B	12B11		PROTO-CUNEIFORM SIGN ZATU646
12AD0		PROTO-CUNEIFORM SIGN URU-A1	12B12		PROTO-CUNEIFORM SIGN ZATU647
12AD1		PROTO-CUNEIFORM SIGN URU-A1 NUTILLU	12B13		PROTO-CUNEIFORM SIGN ZATU647 VARIANT 1
12AD2		PROTO-CUNEIFORM SIGN URU-A2	12B14		PROTO-CUNEIFORM SIGN ZATU648
12AD3		PROTO-CUNEIFORM SIGN URU-B1	12B15		PROTO-CUNEIFORM SIGN ZATU649
12AD4		PROTO-CUNEIFORM SIGN URU-B2	12B16		PROTO-CUNEIFORM SIGN ZATU649 VARIANT 1
12AD5		PROTO-CUNEIFORM SIGN URU-C	12B17		PROTO-CUNEIFORM SIGN ZATU650
12AD6		PROTO-CUNEIFORM SIGN URUDU GUNU-A	12B18		PROTO-CUNEIFORM SIGN ZATU651
12AD7		PROTO-CUNEIFORM SIGN URUDU GUNU-B	12B19		PROTO-CUNEIFORM SIGN ZATU651 VARIANT 1
12AD8		PROTO-CUNEIFORM SIGN URUDU GUNU-C	12B1A		PROTO-CUNEIFORM SIGN ZATU651 VARIANT 2
12AD9		PROTO-CUNEIFORM SIGN URUDU GUNU-D	12B1B		PROTO-CUNEIFORM SIGN ZATU651 GUNU
12ADA		PROTO-CUNEIFORM SIGN URUDU-A	12B1C		PROTO-CUNEIFORM SIGN ZATU659
12ADB		PROTO-CUNEIFORM SIGN URUDU-A VARIANT 1	12B1D		PROTO-CUNEIFORM SIGN ZATU662
12ADC		PROTO-CUNEIFORM SIGN URUDU-A VARIANT 2	12B1E		PROTO-CUNEIFORM SIGN ZATU662 VARIANT 1
12ADD		PROTO-CUNEIFORM SIGN URUDU-C	12B1F		PROTO-CUNEIFORM SIGN ZATU662 VARIANT 2
12ADE		PROTO-CUNEIFORM SIGN URUDU-D	12B20		PROTO-CUNEIFORM SIGN ZATU662 VARIANT 3
12ADF		PROTO-CUNEIFORM SIGN USZ-A	12B21		PROTO-CUNEIFORM SIGN ZATU664
12AE0		PROTO-CUNEIFORM SIGN USZ-B	12B22		PROTO-CUNEIFORM SIGN ZATU665
12AE1		PROTO-CUNEIFORM SIGN USZ-B VARIANT 1	12B23		PROTO-CUNEIFORM SIGN ZATU666
12AE2		PROTO-CUNEIFORM SIGN USZUMGAL	12B24		PROTO-CUNEIFORM SIGN ZATU667
12AE3		PROTO-CUNEIFORM SIGN USZUR3-A	12B25		PROTO-CUNEIFORM SIGN ZATU668
12AE4		PROTO-CUNEIFORM SIGN USZUR3-B1	12B26		PROTO-CUNEIFORM SIGN ZATU669
12AE5		PROTO-CUNEIFORM SIGN USZUR3-B2	12B27		PROTO-CUNEIFORM SIGN ZATU670
12AE6		PROTO-CUNEIFORM SIGN UTUA-A	12B28		PROTO-CUNEIFORM SIGN ZATU672
12AE7		PROTO-CUNEIFORM SIGN UTUA-A TENU	12B29		PROTO-CUNEIFORM SIGN ZATU674
12AE8		PROTO-CUNEIFORM SIGN UTUA-B	12B2A		PROTO-CUNEIFORM SIGN ZATU678
12AE9		PROTO-CUNEIFORM SIGN UTUA-B VARIANT 1	12B2B		PROTO-CUNEIFORM SIGN ZATU679
12AEA		PROTO-CUNEIFORM SIGN UTUL-A	12B2C		PROTO-CUNEIFORM SIGN ZATU681
			12B2D		PROTO-CUNEIFORM SIGN ZATU682
			12B2E		PROTO-CUNEIFORM SIGN ZATU683 TENU

12B2F		PROTO-CUNEIFORM SIGN ZATU684	12B73		PROTO-CUNEIFORM SIGN ZATU767
12B30		PROTO-CUNEIFORM SIGN ZATU685	12B74		PROTO-CUNEIFORM SIGN ZATU768
12B31		PROTO-CUNEIFORM SIGN ZATU687	12B75		PROTO-CUNEIFORM SIGN ZATU769
12B32		PROTO-CUNEIFORM SIGN ZATU689	12B76		PROTO-CUNEIFORM SIGN ZATU771
12B33		PROTO-CUNEIFORM SIGN ZATU690	12B77		PROTO-CUNEIFORM SIGN ZATU772
12B34		PROTO-CUNEIFORM SIGN ZATU691	12B78		PROTO-CUNEIFORM SIGN ZATU774
12B35		PROTO-CUNEIFORM SIGN ZATU692	12B79		PROTO-CUNEIFORM SIGN ZATU775
12B36		PROTO-CUNEIFORM SIGN ZATU693	12B7A		PROTO-CUNEIFORM SIGN ZATU776
12B37		PROTO-CUNEIFORM SIGN ZATU693 VARIANT 1	12B7B		PROTO-CUNEIFORM SIGN ZATU776 VARIANT 1
12B38		PROTO-CUNEIFORM SIGN ZATU693 VARIANT 2	12B7C		PROTO-CUNEIFORM SIGN ZATU777
12B39		PROTO-CUNEIFORM SIGN ZATU693 TENU	12B7D		PROTO-CUNEIFORM SIGN ZATU777 VARIANT 1
12B3A		PROTO-CUNEIFORM SIGN ZATU695	12B7E		PROTO-CUNEIFORM SIGN ZATU777 VARIANT 2
12B3B		PROTO-CUNEIFORM SIGN ZATU696	12B7F		PROTO-CUNEIFORM SIGN ZATU778
12B3C		PROTO-CUNEIFORM SIGN ZATU700	12B80		PROTO-CUNEIFORM SIGN ZATU779
12B3D		PROTO-CUNEIFORM SIGN ZATU701	12B81		PROTO-CUNEIFORM SIGN ZATU780
12B3E		PROTO-CUNEIFORM SIGN ZATU702	12B82		PROTO-CUNEIFORM SIGN ZATU781
12B3F		PROTO-CUNEIFORM SIGN ZATU703	12B83		PROTO-CUNEIFORM SIGN ZATU782
12B40		PROTO-CUNEIFORM SIGN ZATU704	12B84		PROTO-CUNEIFORM SIGN ZATU783
12B41		PROTO-CUNEIFORM SIGN ZATU705	12B85		PROTO-CUNEIFORM SIGN ZATU784
12B42		PROTO-CUNEIFORM SIGN ZATU706	12B86		PROTO-CUNEIFORM SIGN ZATU785
12B43		PROTO-CUNEIFORM SIGN ZATU708	12B87		PROTO-CUNEIFORM SIGN ZATU786
12B44		PROTO-CUNEIFORM SIGN ZATU709	12B88		PROTO-CUNEIFORM SIGN ZATU787
12B45		PROTO-CUNEIFORM SIGN ZATU710	12B89		PROTO-CUNEIFORM SIGN ZATU788
12B46		PROTO-CUNEIFORM SIGN ZATU710 VARIANT 1	12B8A		PROTO-CUNEIFORM SIGN ZATU789
12B47		PROTO-CUNEIFORM SIGN ZATU711	12B8B		PROTO-CUNEIFORM SIGN ZATU791
12B48		PROTO-CUNEIFORM SIGN ZATU711 VARIANT 1	12B8C		PROTO-CUNEIFORM SIGN ZATU792
12B49		PROTO-CUNEIFORM SIGN ZATU713	12B8D		PROTO-CUNEIFORM SIGN ZATU795
12B4A		PROTO-CUNEIFORM SIGN ZATU714	12B8E		PROTO-CUNEIFORM SIGN ZATU797
12B4B		PROTO-CUNEIFORM SIGN ZATU717	12B8F		PROTO-CUNEIFORM SIGN ZATU798
12B4C		PROTO-CUNEIFORM SIGN ZATU718	12B90		PROTO-CUNEIFORM SIGN ZATU799
12B4D		PROTO-CUNEIFORM SIGN ZATU719	12B91		PROTO-CUNEIFORM SIGN ZATU800
12B4E		PROTO-CUNEIFORM SIGN ZATU720	12B92		PROTO-CUNEIFORM SIGN ZATU801
12B4F		PROTO-CUNEIFORM SIGN ZATU721	12B93		PROTO-CUNEIFORM SIGN ZATU802
12B50		PROTO-CUNEIFORM SIGN ZATU722	12B94		PROTO-CUNEIFORM SIGN ZATU803
12B51		PROTO-CUNEIFORM SIGN ZATU723	12B95		PROTO-CUNEIFORM SIGN ZATU804
12B52		PROTO-CUNEIFORM SIGN ZATU724	12B96		PROTO-CUNEIFORM SIGN ZATU805
12B53		PROTO-CUNEIFORM SIGN ZATU725	12B97		PROTO-CUNEIFORM SIGN ZATU806
12B54		PROTO-CUNEIFORM SIGN ZATU725 VARIANT 1	12B98		PROTO-CUNEIFORM SIGN ZATU807
12B55		PROTO-CUNEIFORM SIGN ZATU727	12B99		PROTO-CUNEIFORM SIGN ZATU808
12B56		PROTO-CUNEIFORM SIGN ZATU728	12B9A		PROTO-CUNEIFORM SIGN ZATU809
12B57		PROTO-CUNEIFORM SIGN ZATU729	12B9B		PROTO-CUNEIFORM SIGN ZATU810
12B58		PROTO-CUNEIFORM SIGN ZATU729 VARIANT 1	12B9C		PROTO-CUNEIFORM SIGN ZATU811
12B59		PROTO-CUNEIFORM SIGN ZATU730	12B9D		PROTO-CUNEIFORM SIGN ZATU812
12B5A		PROTO-CUNEIFORM SIGN ZATU732	12B9E		PROTO-CUNEIFORM SIGN ZATU813
12B5B		PROTO-CUNEIFORM SIGN ZATU733	12B9F		PROTO-CUNEIFORM SIGN ZATU814
12B5C		PROTO-CUNEIFORM SIGN ZATU734	12BA0		PROTO-CUNEIFORM SIGN ZATU815
12B5D		PROTO-CUNEIFORM SIGN ZATU737	12BA1		PROTO-CUNEIFORM SIGN ZATU817
12B5E		PROTO-CUNEIFORM SIGN ZATU737 VARIANT 1	12BA2		PROTO-CUNEIFORM SIGN ZATU818
12B5F		PROTO-CUNEIFORM SIGN ZATU737 VARIANT 2	12BA3		PROTO-CUNEIFORM SIGN ZATU819
12B60		PROTO-CUNEIFORM SIGN ZATU750	12BA4		PROTO-CUNEIFORM SIGN ZATU820
12B61		PROTO-CUNEIFORM SIGN ZATU750 VARIANT 1	12BA5		PROTO-CUNEIFORM SIGN ZATU821
12B62		PROTO-CUNEIFORM SIGN ZATU750 VARIANT 2	12BA6		PROTO-CUNEIFORM SIGN ZATU822
12B63		PROTO-CUNEIFORM SIGN ZATU750 VARIANT 3	12BA7		PROTO-CUNEIFORM SIGN ZATU823
12B64		PROTO-CUNEIFORM SIGN ZATU752	12BA8		PROTO-CUNEIFORM SIGN ZATU824
12B65		PROTO-CUNEIFORM SIGN ZATU752 VARIANT 1	12BA9		PROTO-CUNEIFORM SIGN ZATU825
12B66		PROTO-CUNEIFORM SIGN ZATU753	12BAA		PROTO-CUNEIFORM SIGN ZATU826
12B67		PROTO-CUNEIFORM SIGN ZATU754	12BAB		PROTO-CUNEIFORM SIGN ZATU829
12B68		PROTO-CUNEIFORM SIGN ZATU756	12BAC		PROTO-CUNEIFORM SIGN ZATU831
12B69		PROTO-CUNEIFORM SIGN ZATU756 VARIANT 1	12BAD		PROTO-CUNEIFORM SIGN ZATU831 GUNU
12B6A		PROTO-CUNEIFORM SIGN ZATU757	12BAE		PROTO-CUNEIFORM SIGN ZATU832
12B6B		PROTO-CUNEIFORM SIGN ZATU757 VARIANT 1	12BAF		PROTO-CUNEIFORM SIGN ZATU833
12B6C		PROTO-CUNEIFORM SIGN ZATU758	12BB0		PROTO-CUNEIFORM SIGN ZATU834
12B6D		PROTO-CUNEIFORM SIGN ZATU759	12BB1		PROTO-CUNEIFORM SIGN ZATU835
12B6E		PROTO-CUNEIFORM SIGN ZATU759 VARIANT 1	12BB2		PROTO-CUNEIFORM SIGN ZATU836
12B6F		PROTO-CUNEIFORM SIGN ZATU761	12BB3		PROTO-CUNEIFORM SIGN ZATU838
12B70		PROTO-CUNEIFORM SIGN ZATU764	12BB4		PROTO-CUNEIFORM SIGN ZATU839
12B71		PROTO-CUNEIFORM SIGN ZATU765	12BB5		PROTO-CUNEIFORM SIGN ZATU839 VARIANT 1
12B72		PROTO-CUNEIFORM SIGN ZATU766	12BB6		PROTO-CUNEIFORM SIGN ZATU840

12BB7		PROTO-CUNEIFORM SIGN ZATU841
12BB8		PROTO-CUNEIFORM SIGN ZATU842
12BB9		PROTO-CUNEIFORM SIGN ZATU843
12BBA		PROTO-CUNEIFORM SIGN ZATU844
12BBB		PROTO-CUNEIFORM SIGN ZATU845
12BBC		PROTO-CUNEIFORM SIGN ZATU846
12BBD		PROTO-CUNEIFORM SIGN ZATU847
12BBE		PROTO-CUNEIFORM SIGN ZATU848
12BBF		PROTO-CUNEIFORM SIGN ZATU849
12BC0		PROTO-CUNEIFORM SIGN ZATU850
12BC1		PROTO-CUNEIFORM SIGN ZATU851
12BC2		PROTO-CUNEIFORM SIGN ZATU852
12BC3		PROTO-CUNEIFORM SIGN ZATU853
12BC4		PROTO-CUNEIFORM SIGN ZATU854
12BC5		PROTO-CUNEIFORM SIGN ZATU855
12BC6		PROTO-CUNEIFORM SIGN ZATU621-A
12BC7		PROTO-CUNEIFORM SIGN ZATU621-B
12BC8		PROTO-CUNEIFORM SIGN ZATU621-C
12BC9		PROTO-CUNEIFORM SIGN ZATU621-D
12BCA		PROTO-CUNEIFORM SIGN ZATU624-A
12BCB		PROTO-CUNEIFORM SIGN ZATU624-B
12BCC		PROTO-CUNEIFORM SIGN ZATU624-C
12BCD		PROTO-CUNEIFORM SIGN ZATU626-A
12BCE		PROTO-CUNEIFORM SIGN ZATU626-B
12BCF		PROTO-CUNEIFORM SIGN ZATU626-C
12BD0		PROTO-CUNEIFORM SIGN ZATU628-A
12BD1		PROTO-CUNEIFORM SIGN ZATU628-A VARIANT 1
12BD2		PROTO-CUNEIFORM SIGN ZATU628-B
12BD3		PROTO-CUNEIFORM SIGN ZATU632-A
12BD4		PROTO-CUNEIFORM SIGN ZATU632-A VARIANT 1
12BD5		PROTO-CUNEIFORM SIGN ZATU632-B
12BD6		PROTO-CUNEIFORM SIGN ZATU632-C
12BD7		PROTO-CUNEIFORM SIGN ZATU633-A
12BD8		PROTO-CUNEIFORM SIGN ZATU633-B
12BD9		PROTO-CUNEIFORM SIGN ZATU644-A
12BDA		PROTO-CUNEIFORM SIGN ZATU644-B
12BDB		PROTO-CUNEIFORM SIGN ZATU675-A
12BDC		PROTO-CUNEIFORM SIGN ZATU675-B
12BDD		PROTO-CUNEIFORM SIGN ZATU675-B VARIANT 1
12BDE		PROTO-CUNEIFORM SIGN ZATU675-C
12BDF		PROTO-CUNEIFORM SIGN ZATU675-D
12BE0		PROTO-CUNEIFORM SIGN ZATU676-A
12BE1		PROTO-CUNEIFORM SIGN ZATU676-B
12BE2		PROTO-CUNEIFORM SIGN ZATU677-A
12BE3		PROTO-CUNEIFORM SIGN ZATU677-B
12BE4		PROTO-CUNEIFORM SIGN ZATU680-A1
12BE5		PROTO-CUNEIFORM SIGN ZATU680-A2
12BE6		PROTO-CUNEIFORM SIGN ZATU680-B
12BE7		PROTO-CUNEIFORM SIGN ZATU680-B VARIANT 1
12BE8		PROTO-CUNEIFORM SIGN ZATU680-D
12BE9		PROTO-CUNEIFORM SIGN ZATU680-E
12BEA		PROTO-CUNEIFORM SIGN ZATU683-A
12BEB		PROTO-CUNEIFORM SIGN ZATU683-B
12BEC		PROTO-CUNEIFORM SIGN ZATU686-A
12BED		PROTO-CUNEIFORM SIGN ZATU686-B
12BEE		PROTO-CUNEIFORM SIGN ZATU686-C
12BEF		PROTO-CUNEIFORM SIGN ZATU688-A
12BF0		PROTO-CUNEIFORM SIGN ZATU688-B
12BF1		PROTO-CUNEIFORM SIGN ZATU694-A
12BF2		PROTO-CUNEIFORM SIGN ZATU694-B
12BF3		PROTO-CUNEIFORM SIGN ZATU694-C
12BF4		PROTO-CUNEIFORM SIGN ZATU694-C VARIANT 1
12BF5		PROTO-CUNEIFORM SIGN ZATU694-D
12BF6		PROTO-CUNEIFORM SIGN ZATU694-D TENU

12BF7		PROTO-CUNEIFORM SIGN ZATU697-A
12BF8		PROTO-CUNEIFORM SIGN ZATU697-A VARIANT 1
12BF9		PROTO-CUNEIFORM SIGN ZATU697-A VARIANT 2
12BFA		PROTO-CUNEIFORM SIGN ZATU697-A VARIANT 3
12BFB		PROTO-CUNEIFORM SIGN ZATU697-B
12BFC		PROTO-CUNEIFORM SIGN ZATU697-C
12BFD		PROTO-CUNEIFORM SIGN ZATU699-A
12BFE		PROTO-CUNEIFORM SIGN ZATU699-B
12BFF		PROTO-CUNEIFORM SIGN ZATU707-A
12C00		PROTO-CUNEIFORM SIGN ZATU707-B
12C01		PROTO-CUNEIFORM SIGN ZATU726-A
12C02		PROTO-CUNEIFORM SIGN ZATU726-C
12C03		PROTO-CUNEIFORM SIGN ZATU726-D
12C04		PROTO-CUNEIFORM SIGN ZATU735-A
12C05		PROTO-CUNEIFORM SIGN ZATU735-B
12C06		PROTO-CUNEIFORM SIGN ZATU735-B VARIANT 1
12C07		PROTO-CUNEIFORM SIGN ZATU735-B VARIANT 2
12C08		PROTO-CUNEIFORM SIGN ZATU735-C
12C09		PROTO-CUNEIFORM SIGN ZATU736-A
12C0A		PROTO-CUNEIFORM SIGN ZATU736-B
12C0B		PROTO-CUNEIFORM SIGN ZATU749-A
12C0C		PROTO-CUNEIFORM SIGN ZATU749-A VARIANT 1
12C0D		PROTO-CUNEIFORM SIGN ZATU749-A VARIANT 2
12C0E		PROTO-CUNEIFORM SIGN ZATU749-B
12C0F		PROTO-CUNEIFORM SIGN ZATU749-C
12C10		PROTO-CUNEIFORM SIGN ZATU751-A
12C11		PROTO-CUNEIFORM SIGN ZATU751-B
12C12		PROTO-CUNEIFORM SIGN ZATU755-A
12C13		PROTO-CUNEIFORM SIGN ZATU755-B
12C14		PROTO-CUNEIFORM SIGN ZATU762-A
12C15		PROTO-CUNEIFORM SIGN ZATU762-A VARIANT 1
12C16		PROTO-CUNEIFORM SIGN ZATU762-A VARIANT 2
12C17		PROTO-CUNEIFORM SIGN ZATU762-B
12C18		PROTO-CUNEIFORM SIGN ZATU773-A
12C19		PROTO-CUNEIFORM SIGN ZATU773-A VARIANT 1
12C1A		PROTO-CUNEIFORM SIGN ZATU773-B
12C1B		PROTO-CUNEIFORM SIGN ZATU837-A
12C1C		PROTO-CUNEIFORM SIGN ZATU837-B
12C1D		PROTO-CUNEIFORM SIGN ZI-A
12C1E		PROTO-CUNEIFORM SIGN ZI-A VARIANT 1
12C1F		PROTO-CUNEIFORM SIGN ZI-B
12C20		PROTO-CUNEIFORM SIGN ZI-D
12C21		PROTO-CUNEIFORM SIGN ZUBI-A
12C22		PROTO-CUNEIFORM SIGN ZUBI-B

Atomic compound signs

12C23		PROTO-CUNEIFORM SIGN 1 N57 BESIDE SZUBUR VARIANT 1
12C24		PROTO-CUNEIFORM SIGN 3 N58 BESIDE UR3-B1
12C25		PROTO-CUNEIFORM SIGN 4 N57 BESIDE NI-B
12C26		PROTO-CUNEIFORM SIGN 8 N57 BESIDE NI-B
12C27		PROTO-CUNEIFORM SIGN A CONTAINING 1 N14
12C28		PROTO-CUNEIFORM SIGN A CONTAINING AB2
12C29		PROTO-CUNEIFORM SIGN A CONTAINING AN
12C2A		PROTO-CUNEIFORM SIGN A CONTAINING EN-A
12C2B		PROTO-CUNEIFORM SIGN A CONTAINING SZUBUR
12C2C		PROTO-CUNEIFORM SIGN A CONTAINING ZATU672

12C2D	PROTO-CUNEIFORM SIGN AB2 CONTAINING 2 N14	12C53	PROTO-CUNEIFORM SIGN HASZHUR CONTAINING MA
12C2E	PROTO-CUNEIFORM SIGN AB2 CONTAINING 2 N14 VARIANT 1	12C54	PROTO-CUNEIFORM SIGN HI CONTAINING 1 N57 TENU
12C2F	PROTO-CUNEIFORM SIGN AMA-A CONTAINING E2-A	12C55	PROTO-CUNEIFORM SIGN HI CONTAINING SZE3 TENU
12C30	PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-A	12C56	PROTO-CUNEIFORM SIGN HI CONTAINING ZATU707-A
12C31	PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-A VARIANT 1	12C57	PROTO-CUNEIFORM SIGN KA-A CONTAINING SAR-A
12C32	PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-A NUTILLU	12C58	PROTO-CUNEIFORM SIGN KA-A BESIDE SZE-A
12C33	PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-B	12C59	PROTO-CUNEIFORM SIGN KA-A BESIDE SZE-A VARIANT 1
12C34	PROTO-CUNEIFORM SIGN DAR-A CONTAINING A	12C5A	PROTO-CUNEIFORM SIGN KA2 CONTAINING LAM
12C35	PROTO-CUNEIFORM SIGN DARA3-C CONTAINING KAR2	12C5B	PROTO-CUNEIFORM SIGN KAK-A BESIDE GA2-A1
12C36	PROTO-CUNEIFORM SIGN DARA3-C CONTAINING KAR2 BESIDE SZE-A	12C5C	PROTO-CUNEIFORM SIGN KASZ-B CONTAINING SZE-A
12C37	PROTO-CUNEIFORM SIGN DARA3-D CONTAINING KAR2	12C5D	PROTO-CUNEIFORM SIGN KI NUTILLU CONTAINING DUB-A
12C38	PROTO-CUNEIFORM SIGN DARA3-D CONTAINING KAR2 VARIANT 1	12C5E	PROTO-CUNEIFORM SIGN KU6-A JOINED WITH GISZ
12C39	PROTO-CUNEIFORM SIGN DARA3-D CONTAINING KAR2 VARIANT 2	12C5F	PROTO-CUNEIFORM SIGN KU6-A JOINED WITH KU6-A
12C3A	PROTO-CUNEIFORM SIGN DARA3-D CONTAINING KAR2 BESIDE SZE-A	12C60	PROTO-CUNEIFORM SIGN LAGAB-A CONTAINING 2 N14
12C3B	PROTO-CUNEIFORM SIGN DIM-A CONTAINING GU	12C61	PROTO-CUNEIFORM SIGN LU2 CONTAINING GESZTU-C3
12C3C	PROTO-CUNEIFORM SIGN DU CONTAINING DISZ	12C62	PROTO-CUNEIFORM SIGN MA CONTAINING 1 N58
12C3D	PROTO-CUNEIFORM SIGN DU6-A CONTAINING DISZ	12C63	PROTO-CUNEIFORM SIGN MA CONTAINING 2 N57
12C3E	PROTO-CUNEIFORM SIGN DUB CONTAINING DISZ-A	12C64	PROTO-CUNEIFORM SIGN MA CONTAINING MA
12C3F	PROTO-CUNEIFORM SIGN DUB CONTAINING DISZ-B	12C65	PROTO-CUNEIFORM SIGN MAR-B CONTAINING LAGAB-B BESIDE SZE3
12C40	PROTO-CUNEIFORM SIGN DUB CONTAINING DISZ-C	12C66	PROTO-CUNEIFORM SIGN MUD3-A GUNU CONTAINING GU
12C41	PROTO-CUNEIFORM SIGN E2-A CONTAINING 1 N57 TENU	12C67	PROTO-CUNEIFORM SIGN MUSZEN CONTAINING 1 N57
12C42	PROTO-CUNEIFORM SIGN E2-A CONTAINING 3 N58	12C68	PROTO-CUNEIFORM SIGN MUSZEN CONTAINING 2 N57
12C43	PROTO-CUNEIFORM SIGN E2-B CONTAINING 1 N57 TENU	12C69	PROTO-CUNEIFORM SIGN MUSZEN CONTAINING 3 N57
12C44	PROTO-CUNEIFORM SIGN EN-C OVER EN-C	12C6A	PROTO-CUNEIFORM SIGN NI-A CONTAINING 1 N57
12C45	PROTO-CUNEIFORM SIGN ESZDA CONTAINING TAR	12C6B	PROTO-CUNEIFORM SIGN NI-B CONTAINING 4 N57
12C46	PROTO-CUNEIFORM SIGN GESZTU-A CONTAINING SZE-A TENU	12C6C	PROTO-CUNEIFORM SIGN NIR-A CONTAINING AN
12C47	PROTO-CUNEIFORM SIGN GI CONTAINING 1 N14	12C6D	PROTO-CUNEIFORM SIGN NUN-A JOINED WITH EN-A
12C48	PROTO-CUNEIFORM SIGN GI CONTAINING 1 N58 TENU	12C6E	PROTO-CUNEIFORM SIGN NUN-A JOINED WITH EN-B
12C49	PROTO-CUNEIFORM SIGN GIR3-A CONTAINING SZE-B	12C6F	PROTO-CUNEIFORM SIGN NUN-A JOINED WITH EN-D
12C4A	PROTO-CUNEIFORM SIGN GIR3-C CONTAINING KAR2	12C70	PROTO-CUNEIFORM SIGN NUN-B JOINED WITH EN-A
12C4B	PROTO-CUNEIFORM SIGN GIR3-C CONTAINING SZE3	12C71	PROTO-CUNEIFORM SIGN PIRIG-B1 CONTAINING UR2
12C4C	PROTO-CUNEIFORM SIGN GISZ CONTAINING DIN BESIDE DIN-A	12C72	PROTO-CUNEIFORM SIGN SAG CONTAINING 1 N14
12C4D	PROTO-CUNEIFORM SIGN GISZ CONTAINING DIN BESIDE DIN-B	12C73	PROTO-CUNEIFORM SIGN SAG CONTAINING GESZTU-A
12C4E	PROTO-CUNEIFORM SIGN GISZ CONTAINING DIN BESIDE DIN-C	12C74	PROTO-CUNEIFORM SIGN SAG CONTAINING GESZTU-C
12C4F	PROTO-CUNEIFORM SIGN GUKKAL-A BESIDE HI GUNU-A	12C75	PROTO-CUNEIFORM SIGN SAG CONTAINING MA
12C50	PROTO-CUNEIFORM SIGN GURUSZ-A CONTAINING 2 N14	12C76	PROTO-CUNEIFORM SIGN SAG CONTAINING SAR-A
12C51	PROTO-CUNEIFORM SIGN GURUSZ-B CONTAINING 2 N14	12C77	PROTO-CUNEIFORM SIGN SAL CONTAINING 1 N58
12C52	PROTO-CUNEIFORM SIGN GURUSZ-C CONTAINING 2 N14	12C78	PROTO-CUNEIFORM SIGN SA CONTAINING GU4

12C79  PROTO-CUNEIFORM SIGN SIG2-B CONTAINING 1 N14
 12C7A  PROTO-CUNEIFORM SIGN SU-A CONTAINING 1 N58
 12C7B  PROTO-CUNEIFORM SIGN SUKUD JOINED WITH SUKUD-A
 12C7C  PROTO-CUNEIFORM SIGN SUKUD JOINED WITH SUKUD-B
 12C7D  PROTO-CUNEIFORM SIGN SUKUD JOINED WITH SUKUD-C
 12C7E  PROTO-CUNEIFORM SIGN SUKUD JOINED WITH SUKUD-D
 12C7F  PROTO-CUNEIFORM SIGN SZEN-D CONTAINING A
 12C80  PROTO-CUNEIFORM SIGN SZITA GUNU-A CONTAINING 1 N4
 12C81  PROTO-CUNEIFORM SIGN SZITA GUNU-A CONTAINING 1 N6
 12C82  PROTO-CUNEIFORM SIGN SZITA-A1 CONTAINING 1 N6
 12C83  PROTO-CUNEIFORM SIGN TA-D CONTAINING MASZ
 12C84  PROTO-CUNEIFORM SIGN U4 CONTAINING 4 N57
 12C85  PROTO-CUNEIFORM SIGN U4 CONTAINING 5 N57
 12C86  PROTO-CUNEIFORM SIGN U4 CONTAINING 6 N57
 12C87  PROTO-CUNEIFORM SIGN U4 CONTAINING 7 N57
 12C88  PROTO-CUNEIFORM SIGN U4 CONTAINING 8 N57
 12C89  PROTO-CUNEIFORM SIGN U4 CONTAINING 10 N57
 12C8A  PROTO-CUNEIFORM SIGN U4 BESIDE SZU2
 12C8B  PROTO-CUNEIFORM SIGN U8 CONTAINING TAR-B
 12C8C  PROTO-CUNEIFORM SIGN UDU-A CONTAINING TAR-A
 12C8D  PROTO-CUNEIFORM SIGN UDU-A CONTAINING TAR-B
 12C8E  PROTO-CUNEIFORM SIGN UR-A CONTAINING KAR2
 12C8F  PROTO-CUNEIFORM SIGN UR2 CONTAINING TAR
 12C90  PROTO-CUNEIFORM SIGN UR3-B1 CONTAINING MASZ
 12C91  PROTO-CUNEIFORM SIGN USZ-B CONTAINING TAR-C
 12C92  PROTO-CUNEIFORM SIGN USZ-B CONTAINING TAR-C VARIANT 1
 12C93  PROTO-CUNEIFORM SIGN USZ-B CONTAINING TAR-D
 12C94  PROTO-CUNEIFORM SIGN ZATU651 CONTAINING AN
 12C95  PROTO-CUNEIFORM SIGN ZATU651 CONTAINING EN-A
 12C96  PROTO-CUNEIFORM SIGN ZATU651 CONTAINING GAR
 12C97  PROTO-CUNEIFORM SIGN ZATU651 CONTAINING MA
 12C98  PROTO-CUNEIFORM SIGN ZATU651 CONTAINING NUN-A
 12C99  PROTO-CUNEIFORM SIGN ZATU651 CONTAINING SZE-A
 12C9A  PROTO-CUNEIFORM SIGN ZATU651 CONTAINING ZAR-C
 12C9B  PROTO-CUNEIFORM SIGN ZATU759 CONTAINING KU6-A
 12C9C  PROTO-CUNEIFORM SIGN ZATU759 CONTAINING KU6-A JOINED WITH KU6-A
 12C9D  PROTO-CUNEIFORM SIGN ZATU759 CONTAINING KU6-D
 12C9E  PROTO-CUNEIFORM SIGN ZATU644-A CONTAINING 1 N14

12C9F  PROTO-CUNEIFORM SIGN ZATU762-A CONTAINING NIM-A
 12CA0  PROTO-CUNEIFORM SIGN ZATU762-B CONTAINING AB-A

Format control characters

12CA1  PROTO-CUNEIFORM BEGIN GROUP
 12CA2  PROTO-CUNEIFORM END GROUP
 12CA3  PROTO-CUNEIFORM HORIZONTAL NON-JOINER
 12CA4  PROTO-CUNEIFORM HORIZONTAL JOINER
 12CA5  PROTO-CUNEIFORM HORIZONTAL INSERTION
 12CA6  PROTO-CUNEIFORM VERTICAL NON-JOINER
 12CA7  PROTO-CUNEIFORM VERTICAL JOINER
 12CA8  PROTO-CUNEIFORM CONTAINER
 12CA9  PROTO-CUNEIFORM OVERLAY
 12CAA  PROTO-CUNEIFORM REVERSE