Revised proposal to encode Proto-Cuneiform in Unicode

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

119 2N$_{41}$

120 2N$_{45}$

121 2N$_{45}$ flat

122 2N$_{46}$

123 2N$_{46}$ flat

124 2N$_{47}$

125 2N$_{48}$

126 2N$_{49}$

127 2N$_{50}$

128 2N$_{51}$

129 2N$_{51}$ flat

130 2N$_{52}$

131 2N$_{54}$

132 2N$_{56}$

133 2N$_{57}$

134 2N$_{58}$

135 2N$_{59}$

136 2N$_{7a}$

137 2N$_{7b}$

138 2N$_{8b}$

139 2N$_{29a}$

140 2N$_{39a}$

141 2N$_{39b}$

142 2N$_{42a}$

143 2N$_{42b}$

144 2LAGAB$_{a}$

145 3N$_{1}$

146 3N$_{1}$ flat

147 3N$_{2}$

148 3N$_{3}$

149 3N$_{4}$

150 3N$_{4}$ flat

151 3N$_{5}$

152 3N$_{8}$

153 3N$_{14}$

154 3N$_{14}$ flat

155 3N$_{15}$

156 3N$_{18}$

157 3N$_{19}$

158 3N$_{19}$ flat

159 3N$_{20}$

160 3N$_{21}$

161 3N$_{23}$

162 3N$_{34}$

163 3N$_{34}$ flat

164 3N$_{36}$

165 3N$_{40}$

166 3N$_{41}$

167 3N$_{45}$

168 3N$_{45}$ flat

169 3N$_{46}$

170 3N$_{47}$

171 3N$_{48}$

172 3N$_{49}$

173 3N$_{50}$

174 3N$_{51}$

175 3N$_{51}$ flat

176 3N$_{52}$

177 3N$_{53}$

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

241.1 5N$_{14}$ v1

242 5N$_{14}$ flat

243 5N$_{15}$

244 5N$_{18}$

245 5N$_{19}$

246 5N$_{19}$ flat

247 5N$_{20}$

248 5N$_{21}$

249 5N$_{23}$

250 5N$_{34}$

251 5N$_{34}$ flat

252 5N$_{35}$

253 5N$_{36}$

254 5N$_{45}$

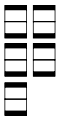
255 5N$_{45}$ flat

256 5N$_{48}$

257 5N$_{49}$

258 5N$_{50}$

259 5N$_{51}$

260  5N$_{51}$ flat

261 5N$_{52}$

262 5N$_{54}$

263 5N$_{57}$

264 5N$_{58}$

265 6N$_{1}$

266 6N$_{1}$ flat

267 6N$_{2}$

268 6N$_{8}$

269 6N$_{14}$

269.1 6N$_{14}$ v1

270 6N$_{14}$ flat

271 6N$_{18}$

272 6N$_{19}$

273 6N$_{19}$ flat

274 6N$_{20}$

275 6N$_{21}$

276 6N$_{24}$

277 6N$_{34}$

278 6N$_{34}$ flat

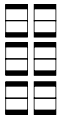
279 6N$_{36}$

280 6N$_{45}$

281 6N$_{45}$ flat

282 6N$_{48}$

283 6N$_{51}$

284  6N$_{51}$ flat

285 6N$_{57}$

285.1 6N$_{57}$ v1

286 6LAGAB$_{a}$

287 7N$_{1}$

288 7N$_{1}$ flat

289 7N$_{2}$

290 7N$_{8}$

291 7N$_{14}$

292 7N$_{14}$ flat

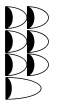
293 7N$_{18}$

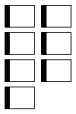
294 7N$_{19}$

295 7N$_{19}$ flat

296 7N$_{20}$

297 7N$_{23}$

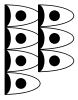
298  7N$_{34}$

299  $7N_{34}$ flat

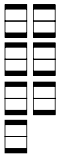
300 $7N_{36}$

301 $7N_{45}$

302 $7N_{45}$ flat

303  $7N_{48}$

304 $7N_{51}$

305  $7N_{51}$ flat

306 $7N_{57}$

307 $8N_{1}$

308 $8N_{1}$ flat

309 $8N_{2}$

310 $8N_{8}$

311 $8N_{14}$

312 $8N_{14}$ flat

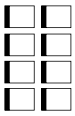
313 $8N_{18}$

314 $8N_{19}$

315 $8N_{19}$ flat

316 $8N_{20}$

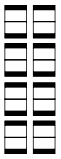
317 $8N_{34}$

318  $8N_{34}$ flat

319 $8N_{36}$

320 $8N_{45}$ flat

321 $8N_{51}$

322  $8N_{51}$ flat

323 $8N_{57}$

324 $8N_{58}$

325 $9N_{1}$

325.1 $9N_{1}$ v1

326 $9N_{1}$ flat

327 $9N_{2}$

328 $9N_{8}$

329 $9N_{14}$

330 $9N_{14}$ flat

331 $9N_{18}$

331.1 $9N_{18}$ v1

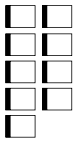
332 $9N_{19}$

332.1 $9N_{19}$ v1

333 $9N_{19}$ flat

334 $9N_{20}$

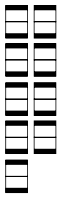
335 $9N_{34}$

336  $9N_{34}$ flat

337 $9N_{36}$

338 $9N_{45}$

339 $9N_{45}$ flat

340  $9N_{51}$ flat

341 $9N_{57}$

342 $9N_{58}$

343 $10N_{1}$

344 $10N_{14}$

345 $10N_{14}$ flat

346 $10N_{57}$

347		10N$_{58}$
348		12N$_{14}$
349		12N$_{58}$

4.2 Individual ideographic signs

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

401		BA
402		BAD
403		$BAD3_a$
404		$BAD3_{b1}$
405		$BAD3_{b2}$
406		$BAHAR2_a$
406.1		$BAHAR2_a$ v1
407		$BAHAR2_b$
407.1		$BAHAR2_b$ v1
408		$BAHAR2_c$
409		$BALA_a$
410		$BALA_b$
410.1		$BALA_b$ v1
411		BALAG
411.1		BALAG v1
412		BAN_a
412.1		BAN_a v1
412.2		BAN_a v2
413		BAN_b
414		$BANŠUR_a$
415		$BANŠUR_a$ tenû
416		$BANŠUR_{b1}$
417		$BANŠUR_{b2}$
418		$BANŠUR_c$
419		$BAPPIR_a$
420		$BAPPIR_b$
421		$BAPPIR_c$
422		$BAPPIR_d$
423		$BAPPIR_e$
424		$BAPPIR_f$
425		BAR
426		BARA3
427		$BARA2_a$
427.1		$BARA2_a$ v1
428		$BARA2_b$
428.1		$BARA2_b$ v1
429		BIR_a
430		BIR_b
431		BIR_c
432		$BIR3_a$
432.1		$BIR3_a$ v1
433		$BIR3_b$
433.1		$BIR3_b$ v1
434		$BIR3_c$
435		BU_a
435.1		BU_a v1
436		BU_b
437		BU3
438		BULUG
439		BULUG3
440		BUR_a
441		BUR_b
442		BUR_c
443		BUR_d
444		BUR2
445		DA_a
446		DA_b
447		DA_c
448		DA_d
449		DAG
450		DAH
451		DAM
452		DANNA
453		DAR_a
454		DAR_b
455		DAR_c
456		DAR_d
457		$DARA3_a$
458		$DARA3_b$
459		$DARA3_c$
459.1		$DARA3_c$ v1
460		$DARA3_d$
461		$DARA4_{a1}$
462		$DARA4_{a2}$
463		$DARA4_{a3}$

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

521		EN_b tenû
522		EN_c
522.1		EN_c v1
523		EN_e
524		EN2
525		ENDIB
526		ENGIZ
527		ENKUM
527.1		ENKUM v1
528		ENLIL
529		ENSI
530		ENSI2
531		$ERIM_a$
532		$ERIM_{b1}$
533		$ERIM_{b2}$
534		ERIM2
535		ERIN
536		EŠDA
537		EŠGAR
538		$EZEN_a$
538.1		$EZEN_a$ v1
539		$EZEN_b$
540		$EZEN_b$ tenû
541		$EZEN_c$
542		$EZINU_a$
543		$EZINU_b$
544		$EZINU_c$
545		$EZINU_d$
546		GA_a
546.1		GA_a v1
546.2		GA_a v2
546.3		GA_a v3
546.4		GA_a v4
547		GA_b
548		GA_c
549		$GA2_{a1}$
550		$GA2_{a2}$
551		$GA2_{a3}$
552		$GA2_{a4}$
553		$GA2_b$
554		$GA2_c$
555		$GA'AR_{a1}$
556		$GA'AR_{a2}$
557		$GA'AR_{b1}$
558		$GA'AR_{b2}$
559		$GADA_a$
560		$GADA_b$
561		$GADA_b$ gunû
562		GAL_a
563		GAL_b
564		$GALGA_a$
565		$GALGA_b$
566		GAN_a
566.1		GAN_a v1
567		GAN_b
567.1		GAN_b v1
567.2		GAN_b v2
567.3		GAN_b v3
568		GAN_c
568.1		GAN_c v1
569		GAN_d
570		GAN2
571		GAR
572		GAR $gunû_a$
573		GAR $gunû_b$
574		GAR $gunû_c$
575		GAR3
576		$GARA2_a$
577		$GARA2_b$
578		GAZI
579		$GEŠTIN_a$
580		$GEŠTIN_c$
581		$GEŠTU_a$
581.1		$GEŠTU_a$ v1

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

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

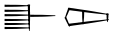
706.1		KAŠ$_a$ v1
707		KAŠ$_b$
707.1		KAŠ$_b$ v1
708		KAŠ$_b$ tenû
709		KAŠ$_c$
710		KAŠ$_d$
711		KEŠ2
712		KI
713		KI nutillû
714		KIB
715		KIB gunû
716		KID$_a$
717		KID$_b$
718		KID$_c$
719		KID$_d$
720		KID$_e$
721		KIN
722		KIN2$_a$
723		KIN2$_c$
724		KIN2$_d$
725		KIN2$_e$
726		KINGAL
726.1		KINGAL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

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

837		MUŠ
838		$MUŠ3_a$
838.1		$MUŠ3_a$ v1
838.2		$MUŠ3_a$ v2
839		$MUŠ3_a$ gunû
839.1		$MUŠ3_a$ gunû v1
840		$MUŠ3_b$
841		MUŠEN
842		NA_a
843		NA_b
844		NA_c
845		NA_d
846		$NA2_a$
846.1		$NA2_a$ v1
847		$NA2_{b1}$
848		$NA2_{b2}$
849		NAB
849.1		NAB v1
849.2		NAB v2
850		$NAGA_a$
851		$NAGA_b$
852		$NAGAR_a$
852.1		$NAGAR_a$ v1
852.2		$NAGAR_a$ v2
852.3		$NAGAR_a$ v3
853		$NAGAR_b$
853.1		$NAGAR_b$ v1
854		NAM_a
855		NAM_b
856		NAM_c
857		NAM_d
858		NAM2
859		NAM2 gunû
860		NAM2 tenû
861		NAMEŠDA
861.1		NAMEŠDA v1
862		$NANNA_a$
862.1		$NANNA_a$ v1
863		$NANNA_b$
864		$NANŠE_a$
865		$NANŠE_b$
866		NAR
867		NE_a
867.1		NE_a v1
867.2		NE_a v2
868		NE_b
869		NE_c
870		NE_d
871		$NERGAL_x$
872		$NESAG2_a$
872.1		$NESAG2_a$ v1
873		$NESAG2_b$
873.1		$NESAG2_b$ v1
874		$NESAG2_b$ tenû
875		NI_a
876		NI_a gunû
877		NI_b
878		NI2
879		NIGIN
880		NIM_a
881		NIM_{b1}
882		NIM_{b2}
883		NIM_{b3}
884		NIMGIR
884.1		NIMGIR v1
885		NIN
886		NINDA2
886.1		NINDA2 v1
887		NINKUM
888		NINLIL
889		NIR_a
890		NIR_b
891		NU

892		NU gunû
893		NU11
894		NU11 tenû
895		NUMUN
896		NUMUN2
897		NUN_a
898		NUN_b
899		NUN_c
899.1		NUN_c v1
899.2		NUN_c v2
899.3		NUN_c v3
900		NUN_d
901		$NUNUZ_{a0}$
902		$NUNUZ_{a1}$
903		$NUNUZ_{a1}$ tenû
904		$NUNUZ_{a2}$
905		$NUNUZ_{b1}$
906		$NUNUZ_{b2}$
907		$NUNUZ_c$
907.1		$NUNUZ_c$ v1
907.2		$NUNUZ_c$ v2
907.3		$NUNUZ_c$ v3
908		PA_a
908.1		PA_a v1
908.2		PA_a v2
909		PA_b
910		PA3
911		PAD_a
912		PAD_b
913		PAP_a
914		PAP_a tenû
915		PAP_b
915.1		PAP_b v1
916		$PIRIG_{a1}$
917		$PIRIG_{a2}$
918		$PIRIG_{a3}$
919		$PIRIG_{b1}$
920		$PIRIG_{b2}$
921		PU2
922		RA
923		RAD_a
924		RAD_a gunû
925		RAD_a tenû
926		RAD_b
927		RI
928		RI_x
929		$RI8_a$
930		$RI8_b$
931		RU
931.1		RU v1
932		RU tenû
933		SA_a
934		SA_c
934.1		SA_c v1
935		SAG
935.1		SAG v1
935.2		SAG v2
936		SAG gunû
937		SAG nutillû
938		SAGŠU
939		SAL
940		$SANGA_a$
940.1		$SANGA_a$ v1
940.2		$SANGA_a$ v2
941		$SANGA_b$
941.1		$SANGA_b$ v1
942		$SANGA_c$
943		SAR_a
944		SAR_b
945		SAR_c
946		SI
946.1		SI v1
947		$SI4_a$
948		$SI4_b$
949		$SI4_c$

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

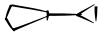
1010		ŠAGINA
1011		ŠAH2$_a$
1012		ŠAH2$_b$
1013		ŠAH2$_c$
1014		ŠAKIR$_a$
1015		ŠAKIR$_b$
1016		ŠAKIR$_c$
1017		ŠAM2
1018		ŠANDANA$_a$
1019		ŠANDANA$_b$
1020		ŠE$_a$
1021		ŠE$_a$ tenû
1022		ŠE$_b$
1023		ŠE$_c$
1024		ŠE3
1024.1		ŠE3 v1
1025		ŠE3 tenû
1025.1		ŠE3 tenû v1
1026		ŠEG9
1027		ŠELU
1028		ŠEN$_a$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

1069		TA_e
1070		TA_f
1071		TAG_{a1}
1072		TAG_{a1} tenû
1073		TAG_{a2}
1074		TAG_{a3}
1075		TAG_{a4}
1076		TAG_b
1077		TAG_c
1078		TAG_d
1079		$TAK4_a$
1079.1		$TAK4_a$ v1
1080		$TAK4_a$ nutillû
1081		$TAK4_c$
1082		TAR_a
1083		TAR_d
1084		TE
1085		TI
1085.1		TI v1
1086		TI gunû
1087		TI reversed
1088		TI tenû
1089		TIDNUM
1090		TILLA2
1091		TU_a
1092		TU_b
1093		TU_c
1094		$TUG2_a$
1095		$TUG2_a$ gunû
1095.1		$TUG2_a$ gunû v1
1096		$TUG2_b$
1097		$TUG2_c$
1098		$TUG2_d$
1099		TUM_a
1100		TUM_a gunû
1101		TUM_b
1102		TUM_c
1103		TUM_d
1104		$TUN3_a$
1105		$TUN3_b$
1106		$TUN3_c$
1107		TUR
1107.1		TUR v1
1107.2		TUR v2
1107.3		TUR v3
1108		TUR gunû
1109		$TUR3_a$
1110		$TUR3_a$ nutillû
1111		$TUR3_b$
1112		$TUR3_c$
1113		U4
1114		U4 tenû
1115		U8
1115.1		U8 v1
1115.2		U8 v2
1115.3		U8 v3
1116		$U2_a$
1117		$U2_b$
1117.1		$U2_b$ v1
1117.2		$U2_b$ v2
1118		$U2_c$
1119		UB
1120		UBI_a
1121		UBI_c
1121.1		UBI_c v1
1122		$UD5_a$
1122.1		$UD5_a$ v1
1122.2		$UD5_a$ v2
1123		$UD5_a$ gunû
1124		$UD5_b$
1125		$UD5_c$
1126		UDU_a
1127		UDU_b
1128		UDU_c
1129		$UDUNITA_a$

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

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

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

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

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

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

4.3 Compound signs

1456		1N$_2$ · RU
1457		1N$_8$ flat × 1N$_{57}$
1458		1N$_{34}$ × 1N$_{58}$
1459		1N$_{57}$ · 1N$_{57}$
1460		1N$_{57}$ · AB2
1461		1N$_{57}$ · ŠAH2$_a$
1462		1N$_{57}$ · ŠUBUR
1462.1		1N$_{57}$ · ŠUBUR v1
1463		1N$_{58}$ · BAD$_a$
1464		1N$_{58}$ · BAD$_b$
1464.1		1N$_{58}$ · BAD$_b$ v1
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
1477		3N$_{58}$ · UR3$_{b1}$
1478		4N$_{57}$ · AMAR
1479		4N$_{57}$ · GAR
1480		4N$_{57}$ · KU3$_a$
1481		4N$_{57}$ · NI$_b$
1482		5N$_{57}$ · GAR
1483		5N$_{57}$ · KU3$_a$
1484		6N$_{57}$ · GAR
1485		6N$_{57}$ · KU3$_a$
1486		8N$_{57}$ · NI$_b$
1487		A × 1N$_{14}$
1488		A × AB2
1489		A × AN

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

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$_d$

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

1564.1 DUG$_b$ × MAŠ v1

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

1575.2 DUG$_b$ × ŠE$_a$ v2

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$_a$

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

1593 E2$_a$ × 1N$_{57}$ tenû

1594 E2$_a$ × 3N$_{58}$

1595 E2$_a$ · LIŠ

1596 E2$_b$ × 1N$_{57}$ tenû

1597 E2$_b$ · LIŠ

1598 EN$_c$ & EN$_c$

1599 EN2 · E2$_a$

1600 EN2 · E2$_b$

1601 EŠDA × TAR

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$_{57}$

1615.1 EZEN$_b$ × 6N$_{57}$ v1

1616 GA$_a$ · ZATU753

1616.1 GA$_a$ · ZATU753 v1

1617 GA$_c$ × 1N$_{14}$

1618 GA$_c$ × KASKAL

1619 GA2$_{a1}$ × 1N$_{14}$

1620 GA2$_{a1}$ × 1N$_{57}$

1621 GA2$_{a1}$ × A

1622 GA2$_{a1}$ × EN$_{b}$

1623 GA2$_{a1}$ × GEŠTU$_{c3}$

1624 GA2$_{a1}$ × GEŠTU$_{c5}$

1625 GA2$_{a1}$ × GIR$_{a}$

1626 GA2$_{a1}$ × (GIR$_{a}$ · KU6$_{a}$)

1627 GA2$_{a1}$ × GIŠ tenû

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)$_{a}$

1645 GA2$_{a1}$ × (SUKUD & SUKUD)$_{b}$

1646 GA2$_{a1}$ × SUMAŠ

1647 GA2$_{a1}$ × ŠA

1648 GA2$_{a1}$ × TI

1649 GA2$_{a1}$ × U4

1650 GA2$_{a2}$ × 3N$_{57}$

1651 GA2$_{a2}$ × GU4

1652 GA2$_{a2}$ × (GU4 · ŠE3)

1653 GA2$_{a2}$ × NI$_{a}$

1654 GA2$_{a2}$ × NI$_{b}$

1655 GA2$_{a2}$ × NIM$_{b1}$

1656 GA2$_{a2}$ × SUHUR

1657 GA2$_{a2}$ × ŠE3

1658 GA2$_{b}$ × DUB$_{a}$

1659 GA2$_{b}$ × DUB$_{b}$

1660 GA2$_{b}$ × KU3$_{a}$

1661 GA2$_{b}$ × ZATU659

1662 GAN$_{c}$ × DIN

1663 GAN$_{c}$ × HI

1664 GAN$_{c}$ × (HI · DIN)

1665 GAN$_{c}$ × KAŠ$_{c}$

1666 GAN$_{c}$ × (KUR$_{a}$ · A)

1667 GAN$_{c}$ × LAGAB$_{b}$

1668 GAN$_{c}$ × NE$_{a}$

1669 GAN$_{c}$ × SIG7

1670 GAN$_{c}$ × ŠE$_{a}$

1671 GAN$_{c}$ × ŠE3 tenû

1672 GAN$_c$ × ZATU777

1673 GAN$_d$ × GEŠTU$_a$

1674 GAN$_d$ × HI

1675 GEŠTU$_a$ × ŠE$_a$ tenû

1676 (GI +& GI) × ŠE3

1677 GI × 1N$_{14}$

1678 GI × 1N$_{58}$ tenû

1679 GI × GIŠ tenû

1680 GI × KU$_{b1}$

1681 GI × LAGAB$_a$

1682 GI × NAM2

1683 GI × SIG2$_{d1}$

1684 GI × ŠE3

1685 GI & GI

1686 (GI & GI) × GIŠ tenû

1687 GI & GI & GI

1688 GI4$_a$ × A

1689 GI4$_a$ & GI4$_a$

1690 GI4$_b$ & GI4$_b$

1691 GIR$_a$ · KU6$_a$

1692 GIR$_b$ · GIR$_b$

1693 GIR3$_a$ × ŠE$_b$

1694 GIR3$_c$ × KAR2

1695 GIR3$_c$ × ŠE3

1696 GIŠ tenû · E2$_a$

1697 (GIŠ × (DIN · DIN))$_a$

1698 (GIŠ × (DIN · DIN))$_b$

1699 (GIŠ × (DIN · DIN))$_c$

1700 GIŠ × ŠU2$_a$

1701 GIŠ × ŠU2$_b$

1702 GIŠ · TE

1703 GIŠ3$_a$ & GIŠ3$_a$

1704 GU4 · ZATU755$_a$

1705 GUG2 × SILA3$_a$

1706 GUG2 × ŠITA$_{a1}$

1707 GUG2 × TUR

1708 GUKKAL$_a$ · HI gunû$_a$

1709 GURUŠ$_a$ × 2N$_{14}$

1710 GURUŠ$_b$ × 2N$_{14}$

1711 GURUŠ$_c$ × 2N$_{14}$

1712 HAŠHUR × MA

1713 HI × 1N$_{1F}$

1714 HI × 1N$_{57}$

1715 HI × 1N$_{57}$ tenû

1716 (HI × 1N$_{57}$) & (HI + 1N$_{57}$)

1717 HI × 1N$_{58}$

1718 HI × LAGAB$_a$

1719 HI × ŠE3 tenû

1720 HI × ZATU707$_a$

1721 HI · SUHUR

1721.1 HI · SUHUR v1

1721.2 HI · SUHUR v2

1722 IR_a · $GA2_{a1}$

1723 KA_a × SAR_a

1724 KA_a · $ŠE_a$

1724.1 KA_a · $ŠE_a$ v1

1725 KA2 × LAM

1726 KAB × $1N_{58}$

1727 KAK_a · $GA2_{a1}$

1728 $KAŠ_b$ × $ŠE_a$

1729 KI nutillû × DUB_a

1730 $KU6_a$ + GIŠ

1731 $KU6_a$ + $KU6_a$

1732 $KU6_a$ · $1N_2$

1733 KUR_a · $E2_a$

1734 KUR_a · $NUNUZ_{a1}$

1735 KUR_b · $E2_a$

1736 $LAGAB_a$ × $2N_{14}$

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 $LAGAB_b$ × $BANŠUR_a$

1759 $LAGAB_b$ × $GA'AR_{a1}$

1760 $LAGAB_b$ × HI

1761 $LAGAB_b$ × KUR_e

1762 $LAGAB_b$ × $LAGAB_b$

1763 $LAGAB_b$ × PA_a

1764 $LAGAB_b$ × SI

1765 $LAGAB_b$ × SUH3

1766 $LAGAB_b$ × $ŠITA_c$

1767 $LAGAB_b$ × U4

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 SIG2$_b$ × 1N$_{14}$

1856 SIG2$_b$ · SIG2$_b$

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		ŠITA$_{a1}$ × 1N$_{6}$
1914		ŠITA$_{a1}$ × KAK$_{a}$
1915		ŠITA$_{a1}$ × ŠU
1916		ŠITA$_{a1}$ × ŠU2
1917		ŠITA$_{a1}$ × UDU$_{a}$
1918		ŠITA$_{b1}$ × HI gunû$_{a}$
1919		ŠITA$_{b3}$ × NAM2
1920		ŠU × 1N$_{58}$
1921		ŠU2 · 1N$_{2}$
1922		ŠU2 · 2N$_{57}$
1923		ŠU2 · AN
1924		ŠU2 · E2$_{a}$
1925		ŠU2 · E2$_{b}$
1926		ŠU2 · EN$_{a}$
1926.1		ŠU2 · EN$_{a}$ v1
1927		ŠU2 · EN$_{b}$
1928		ŠU2 · GIŠ
1929		ŠU2 · ((HI + 1N$_{57}$) + (HI + 1N$_{57}$))
1930		ŠU2 · URI3$_{a}$
1931		ŠU & ŠU
1932		TA$_{d}$ × MAŠ
1933		TUG2$_{a}$ · (BAD & BAD)
1934		TUR3$_{b}$ × TAK4$_{a}$
1935		U4 × 1N$_{1}$
1936		U4 × 1N$_{1}$ · 5N$_{8}$
1937		U4 × 1N$_{1F}$
1938		U4 × 1N$_{14}$
1939		U4 × (1N$_{14}$ · 2N$_{1}$)
1940		U4 × (1N$_{14}$ · 4N$_{1}$)
1941		U4 × (1N$_{14}$ · 8N$_{1}$)
1942		U4 × 1N$_{57}$
1943		U4 × 1N$_{58}$ tenû
1944		U4 × 2N$_{1}$
1945		U4 × 2N$_{1}$ · 2N$_{14}$
1946		U4 × 2N$_{1}$ · (2N$_{14}$ · 1N$_{8}$)
1947		U4 × 2N$_{14}$
1948		U4 × (2N$_{14}$ · 4N$_{1}$)
1949		U4 × 2N$_{57}$
1950		U4 × 3N$_{1}$
1951		U4 × 3N$_{1}$ · 3N$_{8}$
1952		U4 × (3N$_{14}$ · 2N$_{1}$)
1953		U4 × (3N$_{14}$ · 7N$_{1}$)
1954		U4 × 3N$_{57}$
1955		U4 × 4N$_{1}$
1956		U4 × 4N$_{1}$ · 2N$_{14}$
1957		U4 × 4N$_{57}$
1958		U4 × 5N$_{1}$
1959		U4 × 5N$_{1}$ · 1N$_{14}$
1960		U4 × 5N$_{57}$
1961		U4 × 6N$_{1}$

1962		U4 × $6N_{57}$
1963		U4 × $7N_{57}$
1964		U4 × $8N_{1}$
1965		U4 × $8N_{57}$
1966		U4 × $10N_{57}$
1967		U4 · $1N_{8}$
1968		U4 · $1N_{14}$
1969		U4 · ($1N_{14}$ · $3N_{8}$)
1970		U4 · ($1N_{14}$ · $4N_{8}$)
1971		U4 · ($1N_{14}$ · $5N_{8}$)
1972		U4 · ($1N_{14}$ · $8N_{8}$)
1973		U4 · $2N_{8}$
1974		U4 · $2N_{14}$
1975		U4 · $3N_{8}$
1976		U4 · $4N_{8}$
1977		U4 · $5N_{8}$
1978		U4 · $6N_{8}$
1979		U4 · $7N_{8}$
1980		U4 · $8N_{8}$
1981		U4 · ŠU2
1982		$(U8 \times TAR)_{b}$
1983		$(UDU_{a} \times TAR)_{a}$
1984		$(UDU_{a} \times TAR)_{b}$
1985		$UKKIN_{b} \times 2N_{1}$
1986		$UKKIN_{b} \times 3N_{1}$
1987		$UKKIN_{b} \times 5N_{1}$
1988		$UKKIN_{b}$ × DIN
1989		$UKKIN_{b} \times (DIN \cdot 1N_{1})$
1990		$UKKIN_{b} \times DUG_{a}$
1991		$UKKIN_{b}$ × HI gunû$_{a}$
1992		$UKKIN_{b} \times NI_{a}$
1993		$UNUG_{a}$ × A tenû
1994		UR_{a} × KAR2
1995		UR2 × $1N_{57}$
1996		UR2 × TAR
1997		$UR3_{b1}$ × MAŠ
1998		$URI3_{a}$ + IB_{a}
1999		$URU_{a1} \times 1N_{57}$
2000		$URU_{a1} \times 2N_{57}$
2001		URU_{a1} × A
2002		URU_{a1} × AMAR
2003		URU_{a1} × GU4
2004		URU_{a1} × HI gunû$_{a}$
2005		URU_{a1} × NIMGIR
2006		URU_{a1} × U4
2007		$URU_{a2} \times 1N_{58}$
2008		$URU_{a3} \times KALAM_{a}$
2009		$UŠ_{a}$ & $UŠ_{a}$
2010		$UŠ_{b} \times TAR_{c}$
2010.1		$UŠ_{b} \times TAR_{c}$ v1

2011		$UŠ_b$ × TAR_d
2012		$UŠ_b$ & $UŠ_b$
2013		ZATU651 × AN
2014		ZATU651 × EN_a
2015		ZATU651 × GAR
2016		ZATU651 × MA
2017		ZATU651 × NUN_a
2018		ZATU651 × $ŠE_a$
2019		ZATU651 × ZAR_c
2020		ZATU659 × $1N_1$
2021		ZATU659 × $1N_{14}$
2022		ZATU659 × $1N_{58}$ tenû
2023		ZATU662 × $1N_{14}$
2023.1		ZATU662 × $1N_{14}$ v1
2023.2		ZATU662 × $1N_{14}$ v2
2024		ZATU711 × HI gunû$_a$
2025		ZATU714 × HI gunû$_a$
2026		ZATU714 · RU
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
2039		ZATU737 × $ŠE_a$
2040		ZATU737 × ŠITA gunû$_a$
2041		ZATU737 × $ŠITA_{a1}$
2042		ZATU737 × U4
2043		ZATU737 × $UNUG_a$
2044		ZATU759 × $KU6_a$
2045		ZATU759 × ($KU6_a$ + $KU6_a$)
2046		ZATU759 × $KU6_d$
2047		$ZATU644_a$ × $1N_{14}$
2048		$ZATU762_a$ × NIM_a
2049		$ZATU762_b$ × AB_a
2050		(ZU & ZU) · SAR_a

4.4 Fragmentary Signs

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

2051		AB_a × X
2052		(BU_a & BU_a) · X
2053		DIM_a × X
2054		$DU8_c$ × X
2055		DUG_a × X
2056		DUG_b × (KUR_a · X)
2057		DUG_b × ($SI4_a$ · X)
2058		DUG_b × X
2058.1		DUG_b × X v1
2059		$EZEN_a$ × X
2060		GA_a × X
2061		$GA2_{a1}$ × X
2062		$GA2_{a2}$ × X
2063		$GA2_{a3}$ × X
2064		GAN_c × X
2065		$GEŠTIN_c$ × X
2066		GI × X
2067		(GI & GI) × X
2068		$LAGAB_a$ × X
2069		$LAGAB_b$ × X
2070		MA × X
2071		MAH_a × X
2072		MAR_b × X
2073		MUŠEN × X
2074		NI_b × X
2075		NINDA2 × (AN · X)
2076		NINDA2 × (HI · X)
2077		NINDA2 × (U4 · X)
2078		NINDA2 × X
2079		NINDA2 × (X · MAŠ)
2080		$SILA3_a$ × X
2081		TUR × X
2082		U4 × $2N_1$ · X
2083		U4 × $8N_1$ · X
2084		U4 × X
2085		U4 × (X + $2N_1$)
2086		U4 × (X(N1))
2087		$UKKIN_b$ × X
2088		URU_{a1} × X
2089		X(N57) · GAR
2090		ZATU651 × X
2091		ZATU711 × X
2092		ZATU714 × X
2093		ZATU737 × X
2094		ZATU759 tenû × X
2095		ZATU759 × 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	ŠE$_a$ · NAM2		1:
1926	ŠU2 · EN$_a$		1:
2010	UŠ$_b$ × TAR$_c$		1:
2023	ZATU662 × 1N$_{14}$		2: ,
2030	ZATU737 × DI		1:
2034	ZATU737 × GAR		1:
2058	DUG$_b$ × 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
	4	I×(I·I·I)	1
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	, 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
	$DU6_a$ × 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
	$LAGAB_b$ × 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 × (UDU$_a$ × TAR)$_a$	1		TAR
	NINDA2 × (UDU$_a$ × TAR)$_b$	1	, TAR b	TAR
	NUN$_a$ + EN$_d$	1	, EN d	EN$_d$
	SAG × GEŠTU$_c$	1	, GESZTU c	GEŠTU$_c$
	SILA3$_d$ × NI$_a$	1	SILA3 d,	SILA3$_d$
	U4 × 1N$_{1F}$	1	, 1N01F	1N$_{1F}$
	(U8 × TAR)$_b$	1	, TAR b	TAR
	(UDU$_a$ × TAR)$_a$	1	,	TAR
	(UDU$_a$ × TAR)$_b$	1	, TAR b	TAR
	UR$_a$ × KAR2	1	, KAR2	KAR2
	UR2 × TAR	1	, TAR	TAR
	URU$_{a3}$ × KALAM$_a$	1	URU a3,	URU$_{a3}$
	UŠ$_b$ × TAR$_c$	1	, TAR c	TAR$_c$
	UŠ$_b$ × TAR$_c$ – var. 1	1	, TAR c	TAR$_c$
	ZATU 759 tenû × X	1	ZATU759@t, X	ZATU 759 tenû
	(ZU & ZU) · 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×N [3], I×I [2], I·I [1]
	GIŠ	6	I×(I·I) [3], I×I [2], I·I [1]
	A	6	I×I [5], I×N [1]
	$ŠITA_{a1}$	5	I×I [4], I×N [1]
	$SILA3_{b}$	5	I×I [5]
	NUN_{a}	5	I+I [5]
	MA	5	I×I [3], I×N [2]
	ZATU759	4	I×I [3], I×(I+I) [1]
	SUKUD	4	I+I [4]
	SAL	4	I·I [3], I×N [1]
	MAH_{b}	4	I×I [4]
	$GA2_{b}$	4	I×I [4]
	$4N_{57}$	4	N·I [4]
	$2N_{57}$	4	N·I [4]
	$1N_{57}$	4	N·I [3], N·N [1]
	ZATU714	3	I×I [2], I·I [1]
	ZATU659	3	I×N [3]
	$UŠ_{b}$	3	I×I [2], I&I [1]
	$ŠE_{a}$	3	I·I [2], I&I [1]
	MAR_{b}	3	I×I [2], I×(I·I) [1]
	$KU6_{a}$	3	I+I [2], I·N [1]
	GUG2	3	I×I [3]
	$E2_{a}$	3	I×N [2], I·I [1]
DUB	DUB	3	I×I [3]
	$DU8_{c}$	3	I×I [3]
	AMAR	3	I&I [1], I·N [1], I×I [1]

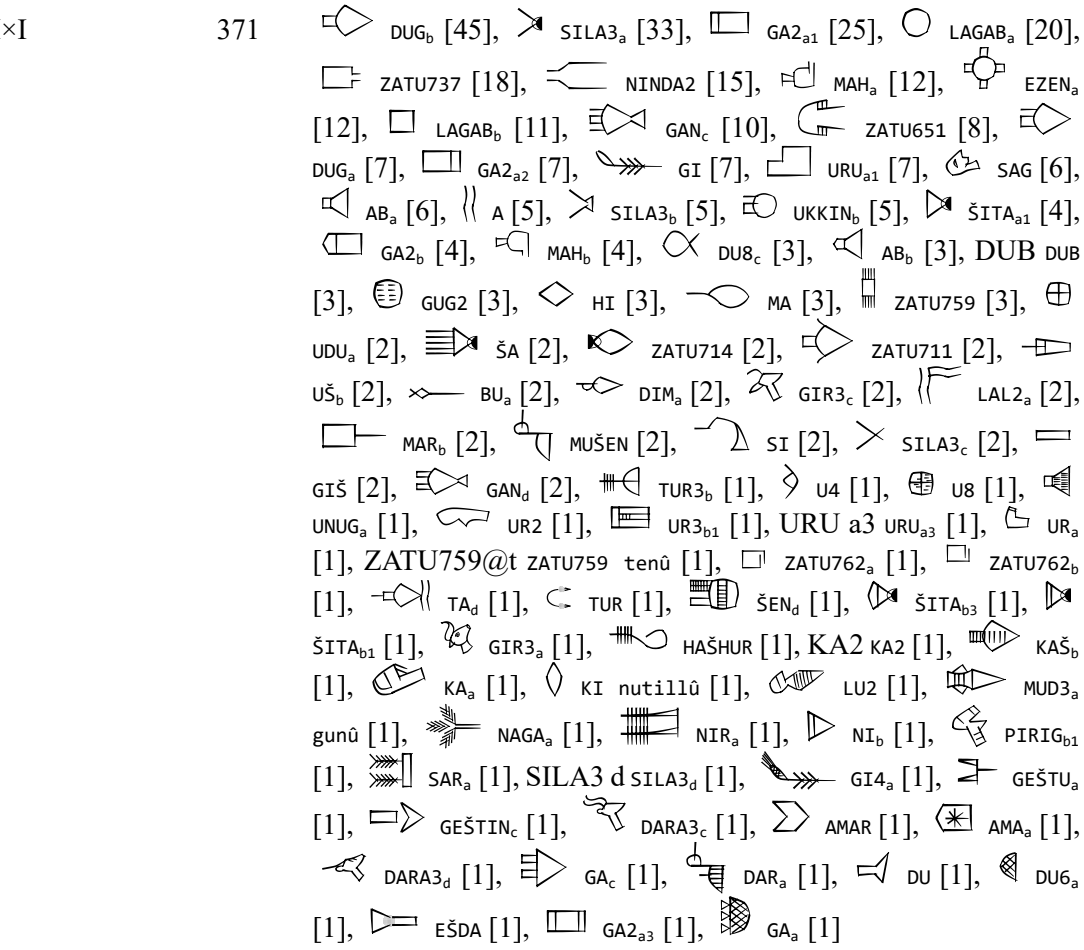
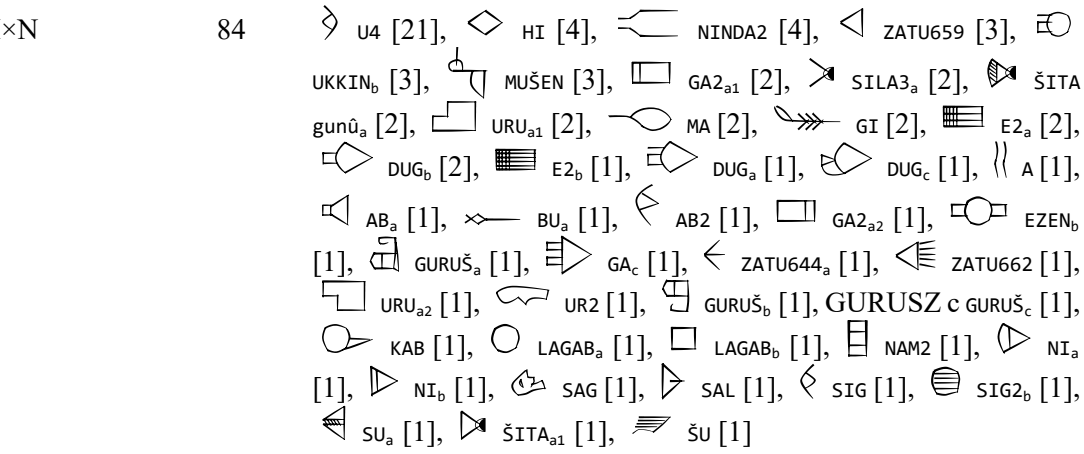
	First Element	Count	Compound Types
	AB_b	3	I×I [3]
	ZATU711	2	I×I [2]
	UR2	2	I×I [1], I×N [1]
	UDU_a	2	I×I [2]
	ŠU	2	I&I [1], I×N [1]
	ŠITA gunû$_a$	2	I×N [2]
	ŠA	2	I×I [2]
	$SILA3_c$	2	I×I [2]
	$SIG2_b$	2	I·I [1], I×N [1]
	SI	2	I×I [2]
	NI_b	2	I×I [1], I×N [1]
	NI_a	2	I·I [1], I×N [1]
	$LAL2_a$	2	I×I [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]

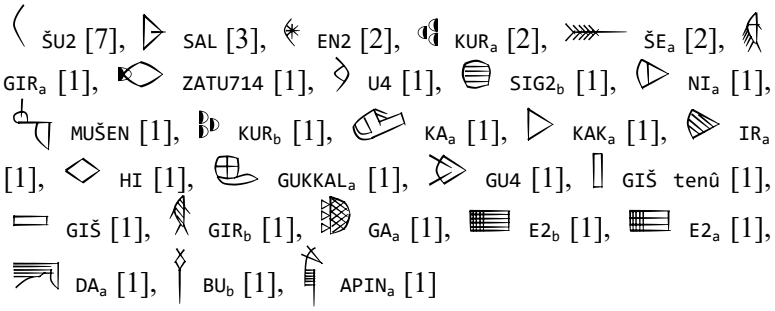
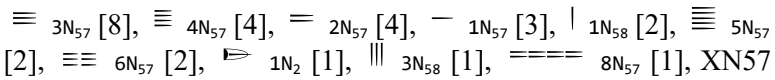
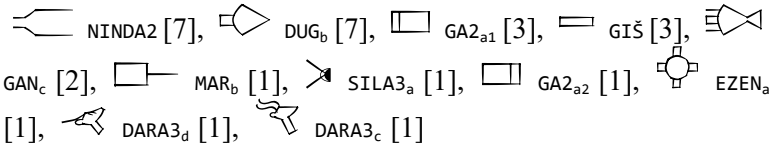
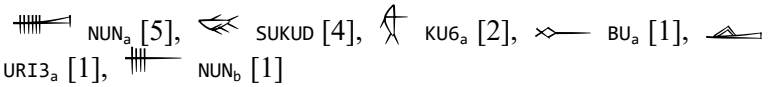
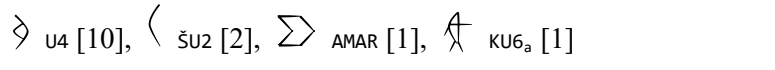
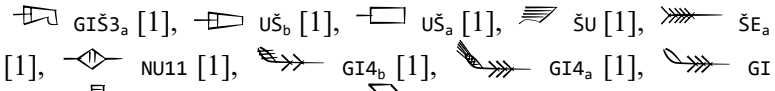
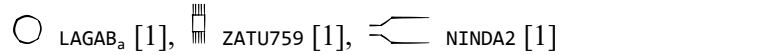
	First Element	Count	Compound Types
	$5N_{57}$	2	N·I [2]
	$1N_{58}$	2	N·I [2]
ZU	ZU	1	(I&I)·I [1]
	$ZATU762_{b}$	1	I×I [1]
	$ZATU762_{a}$	1	I×I [1]
ZATU759@t	ZATU759 tenû	1	I×I [1]
	ZATU662	1	I×N [1]
	$ZATU644_{a}$	1	I×N [1]
XN57	XN57	1	N·I [1]
	$UŠ_{a}$	1	I&I [1]
	UR_{a}	1	I×I [1]
URU a3	URU_{a3}	1	I×I [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 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], GI [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×(I×I)	3	NINDA2 [2], MAH$_a$ [1]
I×(I·N)	2	UKKIN$_b$ [1], NINDA2 [1]
I×N·I	2	U4 [2]
N×N	2	1N$_8$ flat [1], 1N$_{34}$ [1]
(I&I)×I	2	GI [2]
I×(I·I·I)	1	NINDA2 [1]
I×(I·N·I)	1	EZEN$_a$ [1]
I·(I&I)	1	TUG2$_a$ [1]
I×(N·I)	1	DUG$_b$ [1]
I·((I+N)+(I+N))	1	ŠU2 [1]
I&I&I	1	GI [1]
(I×N)&(I+N)	1	HI [1]
I×N·(N·N)	1	U4 [1]
I×(I+N)	1	U4 [1]
(I+&I)×I	1	GI [1]
(I&I)×N	1	DUG$_b$ [1]
N·N	1	1N$_{57}$ [1]

Type	Count	First Element
I×(I×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 of 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 corms 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	
@g	gunu
@t	tenu
@n	nutillu
@s	seshshig
@r	reversed
@f	flat

Operators	
×	CONTAINING
+	JOINED
&	OVER
.	BESIDE

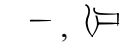
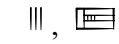
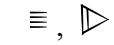
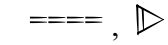
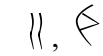
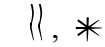
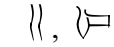
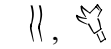
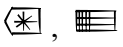
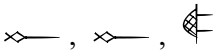
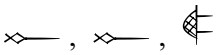
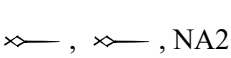
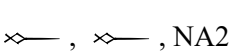
Diacritics	
Š	SH

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

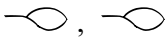
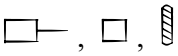
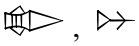
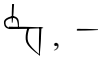
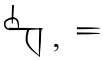
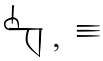
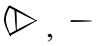
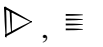
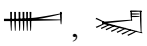
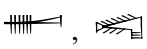
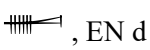
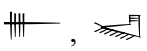
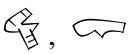
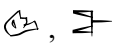
7.1 Atomic Signs

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	 , EN d
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	,

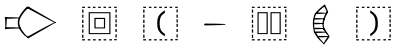
#	Sign	Name	Str	Type	Elements
1966		U4 × 10N$_{57}$	I×N	adjacent	, =====
1981		U4 · ŠU2	I·I	adjacent	,
1982		(U8 × TAR)$_{b}$	I×I	overlay	, TAR
1983		(UDU$_{a}$ × TAR)$_{a}$	I×I	overlay	, TAR
1984		(UDU$_{a}$ × TAR)$_{b}$	I×I	overlay	, TAR
1994		UR$_{a}$ × KAR2	I×I	embedded	, KAR2
1996		UR2 × TAR	I×I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

#	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	,

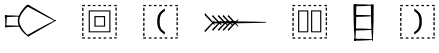
7.2 Composable Signs

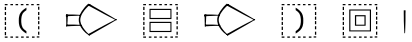
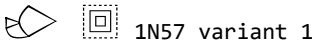
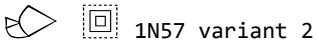
The following signs may be considered composable:

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$_d$	ANSZE 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	DIN variant 1
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	HI variant 1
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	 1N57 variant 1
1592.2		DUG$_c$ × 1N$_{57}$ v2	 1N57 variant 2

7.2.2 Contained: GA2 (43 signs)

#	Sign	Name	Encoded Representation
1619		GA2$_{a1}$ × 1N$_{14}$	
1620		GA2$_{a1}$ × 1N$_{57}$	
1621		GA2$_{a1}$ × A	
1622		GA2$_{a1}$ × EN$_b$	
1623		GA2$_{a1}$ × GEŠTU$_{c3}$	
1624		GA2$_{a1}$ × GEŠTU$_{c5}$	
1625		GA2$_{a1}$ × GIR$_a$	
1626		GA2$_{a1}$ × (GIR$_a$ · KU6$_a$)	
1627		GA2$_{a1}$ × GIŠ tenû	

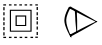
#	Sign	Name	Encoded Representation
1628		GA2$_{a1}$ × GU4	
1629		GA2$_{a1}$ × HAL	
1630		GA2$_{a1}$ × HI	
1631		GA2$_{a1}$ × (HI · SUHUR)	
1632		GA2$_{a1}$ × KU3$_{a}$	
1633		GA2$_{a1}$ × KU6$_{a}$	
1634		GA2$_{a1}$ × (KU6$_{a}$ · KU6$_{a}$)	
1635		GA2$_{a1}$ × LAGAB$_{b}$	
1636		GA2$_{a1}$ × MAŠ	
1637		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$_{a2}$ × GU4	
1652		GA2$_{a2}$ × (GU4 · ŠE3)	
1653		GA2$_{a2}$ × NI$_{a}$	
1654		GA2$_{a2}$ × NI$_{b}$	
1655		GA2$_{a2}$ × NIM$_{b1}$	
1656		GA2$_{a2}$ × SUHUR	
1657		GA2$_{a2}$ × ŠE3	
1658		GA2$_{b}$ × DUB$_{a}$	
1659		GA2$_{b}$ × DUB$_{b}$	
1660		GA2$_{b}$ × KU3$_{a}$	
1661		GA2$_{b}$ × ZATU659	

7.2.3 Contained: SILA3 (44 signs)

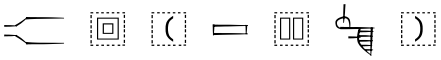
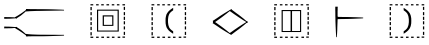
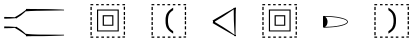
#	Sign	Name	Encoded Representation
1857		SILA3$_{a}$ × 1N$_{57}$	
1858		SILA3$_{a}$ × 1N$_{58}$	
1859		SILA3$_{a}$ × A	
1860		SILA3$_{a}$ × AMAR	
1861		SILA3$_{a}$ × DUG$_{a}$	
1861.1		SILA3$_{a}$ × DUG$_{a}$ v1	
1862		SILA3$_{a}$ × DUG$_{b}$	
1863		SILA3$_{a}$ × GA$_{a}$	
1864		SILA3$_{a}$ × GARA2$_{a}$	

#	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 × ($GIŠ \cdot DAR_a$)	
1817		NINDA2 × GU4	
1818		NINDA2 × GUDU4	GUDU4
1818.1		NINDA2 × GUDU4 v1	GUDU4 variant 1
1818.2		NINDA2 × GUDU4 v2	GUDU4 variant 2
1818.3		NINDA2 × GUDU4 v3	GUDU4 variant 3
1819		NINDA2 × HI	
1820		NINDA2 × ($HI\ gunû_a \cdot 1N_6$)	
1821		NINDA2 × ($HI + ME_a$)	
1822		NINDA2 × ($HI \cdot AN \cdot ME_a$)	
1823		NINDA2 × $KAŠ_b$	
1824		NINDA2 × MAR_b	
1825		NINDA2 × NE_a	
1826		NINDA2 × $ŠIM_a$	
1827		NINDA2 × U4	
1828		NINDA2 × $(UDU_a \times TAR)_a$	TAR a
1829		NINDA2 × $(UDU_a \times TAR)_b$	TAR b
1830		NINDA2 × ($ZATU659 \times 1N_1$)	

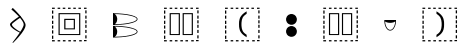
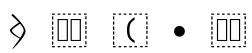
7.2.5 Contained: LAGAB (31 signs)

#	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		LAGAB$_b$ × GA'AR$_{a1}$	□
1760		LAGAB$_b$ × HI	□
1761		LAGAB$_b$ × KUR$_e$	□ KUR e
1762		LAGAB$_b$ × LAGAB$_b$	□ □
1763		LAGAB$_b$ × PA$_a$	□
1764		LAGAB$_b$ × SI	□
1765		LAGAB$_b$ × SUH3	□
1766		LAGAB$_b$ × ŠITA$_c$	□
1767		LAGAB$_b$ × U4	□

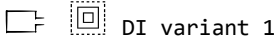
7.2.6 Contained: U4 (39 signs)

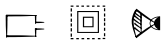
#	Sign	Name	Encoded Representation
1935		U4 × 1N$_1$	
1936		U4 × 1N$_1$ · 5N$_8$	
1937		U4 × 1N$_{1F}$	1N01F
1938		U4 × 1N$_{14}$	
1939		U4 × (1N$_{14}$ · 2N$_1$)	
1940		U4 × (1N$_{14}$ · 4N$_1$)	
1941		U4 × (1N$_{14}$ · 8N$_1$)	
1942		U4 × 1N$_{57}$	
1943		U4 × 1N$_{58}$ tenû	
1944		U4 × 2N$_1$	
1945		U4 × 2N$_1$ · 2N$_{14}$	

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

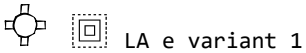
#	Sign	Name	Encoded Representation
1975		U4 · $3N_8$	
1976		U4 · $4N_8$	
1977		U4 · $5N_8$	
1978		U4 · $6N_8$	
1979		U4 · $7N_8$	
1980		U4 · $8N_8$	

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 $gunû_a$	
2041		ZATU737 × $ŠITA_{a1}$	
2042		ZATU737 × U4	
2043		ZATU737 × $UNUG_a$	

7.2.8 Contained: EZEN (16 signs)

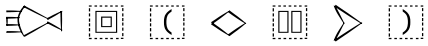
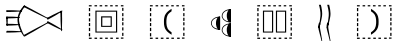
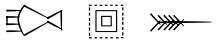
#	Sign	Name	Encoded Representation
1602		$EZEN_a$ × EN_a	
1603		$EZEN_a$ × EN_b	
1604		$EZEN_a$ × (HI · $1N_{57}$ · AN)	
1605		$EZEN_a$ × KAB	
1606		$EZEN_a$ × KI	
1607		$EZEN_a$ × LA_e	
1607.1		$EZEN_a$ × LA_e v1	
1608		$EZEN_a$ × NIM_{b2}	
1609		$EZEN_a$ × NIMGIR	
1610		$EZEN_a$ × RAD_a	
1611		$EZEN_a$ × 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)

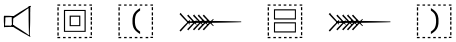
#	Sign	Name	Encoded Representation
1662		GAN$_c$ × DIN	
1663		GAN$_c$ × HI	
1664		GAN$_c$ × (HI · DIN)	
1665		GAN$_c$ × KAŠ$_c$	
1666		GAN$_c$ × (KUR$_a$ · A)	
1667		GAN$_c$ × LAGAB$_b$	
1668		GAN$_c$ × NE$_a$	
1669		GAN$_c$ × SIG7	
1670		GAN$_c$ × ŠE$_a$	
1671		GAN$_c$ × ŠE3 tenû	
1672		GAN$_c$ × ZATU777	
1673		GAN$_d$ × GEŠTU$_a$	
1674		GAN$_d$ × HI	

7.2.11 Contained: URU (10 signs)

#	Sign	Name	Encoded Representation
1999		URU$_{a1}$ × 1N$_{57}$	
2000		URU$_{a1}$ × 2N$_{57}$	
2001		URU$_{a1}$ × A	
2002		URU$_{a1}$ × AMAR	
2003		URU$_{a1}$ × GU4	
2004		URU$_{a1}$ × HI gunû$_a$	
2005		URU$_{a1}$ × NIMGIR	

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

7.2.12 Contained: AB (10 signs)

#	Sign	Name	Encoded Representation
1493		AB_a × $1N_1$	
1494		AB_a × A tenû	
1495		AB_a × AŠ2	
1496		AB_a × $KU6_a$	
1497		AB_a × SUKKAL	
1498		AB_a × ($ŠE_a$ & $ŠE_a$)	
1499		AB_a × ZATU659	
1500		AB_b × A	
1501		AB_b × $KU6_a$	
1502		AB_b × $ŠA3_{a1}$	

7.2.13 Contained: UKKIN (8 signs)

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

#	Sign	Name	Encoded Representation
1989		UKKIN$_{b}$ × (DIN · 1N$_{1}$)	
1990		UKKIN$_{b}$ × DUG$_{a}$	
1991		UKKIN$_{b}$ × HI gunû$_{a}$	
1992		UKKIN$_{b}$ × NI$_{a}$	

7.2.14 Contained: SZITA (6 signs)

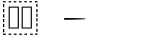
#	Sign	Name	Encoded Representation
1914		ŠITA$_{a1}$ × KAK$_{a}$	
1915		ŠITA$_{a1}$ × ŠU	
1916		ŠITA$_{a1}$ × ŠU2	
1917		ŠITA$_{a1}$ × UDU$_{a}$	
1918		ŠITA$_{b1}$ × HI gunû$_{a}$	
1919		ŠITA$_{b3}$ × NAM2	

7.2.15 Contained: Other (23 signs)

#	Sign	Glyph	Encoded Representation
1527	DU8$_{c}$ × HI		
1528	DU8$_{c}$ × UDU$_{a}$		
1617	GA$_{c}$ × 1N$_{14}$		
1618	GA$_{c}$ × KASKAL		
1705	GUG2 × SILA3$_{a}$		
1706	GUG2 × ŠITA$_{a1}$		

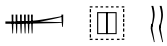
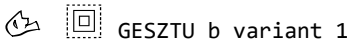
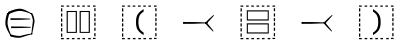
#	Sign	Glyph	Encoded Representation
1707	GUG2 × TUR		
1713	HI × $1N_{1F}$		1N01F
1714	HI × $1N_{57}$		
1717	HI × $1N_{58}$		
1768	$LAL2_a$ × $EZEN_a$		
1769	$LAL2_a$ × NIM_{b2}		
1792	MAR_b × $ŠE_a$		
1800	NAM2 × $1N_1$		
1995	UR2 × $1N_{57}$		
2020	ZATU659 × $1N_1$		
2021	ZATU659 × $1N_{14}$		
2022	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	$1N_{57}$ · $1N_{57}$		

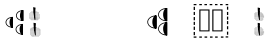
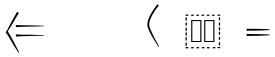
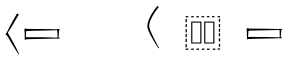
#	Sign	Glyph	Encoded Representation
1461	$1N_{57}$ · $ŠAH2_a$		
1462	$1N_{57}$ · ŠUBUR		
1463	$1N_{58}$ · BAD_a		BAD a
1464	$1N_{58}$ · BAD_b		BAD b
1464.1	$1N_{58}$ · BAD_b v1		BAD b variant 1
1465	$2N_{57}$ · AB2		
1466	$2N_{57}$ · $KU6_a$		
1467	$2N_{57}$ · SU_a		
1468	$2N_{57}$ · ŠUBUR		
1469	$3N_{57}$ · 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		

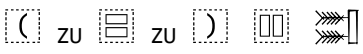
#	Sign	Glyph	Encoded Representation
1483	$5N_{57}$ · $KU3_a$		
1484	$6N_{57}$ · GAR		
1485	$6N_{57}$ · $KU3_a$		
1507	AMAR · $1N_2$		
1510	BU_a + $DU6_a$		
1510.1	BU_a + $DU6_a$ v1		
1518	DA_a · LIŠ		
1595	$E2_a$ · LIŠ		
1597	$E2_b$ · LIŠ		
1599	EN2 · $E2_a$		
1600	EN2 · $E2_b$		
1681	GI × $LAGAB_a$		
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		SUHUR variant 1
1721.2	HI · SUHUR v2		SUHUR variant 2
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 + $1N_{57}$))		

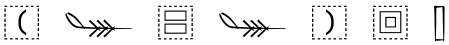
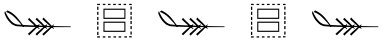
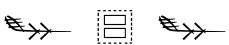
#	Sign	Glyph	Encoded Representation
1930	ŠU2 · URI3$_a$		
2050	(ZU & ZU) · SAR$_a$		

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		
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$_a$		
1701	GIŠ × ŠU2$_b$		

#	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`

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1263C;PROTO-CUNEIFORM NUMERIC SIGN 3 N8-B;Nl;0;L;;;;3;N;;;;;
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1263F;PROTO-CUNEIFORM NUMERIC SIGN 3 N42-A;Nl;0;L;;;;3;N;;;;;
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12642;PROTO-CUNEIFORM NUMERIC SIGN 4 N1 FLAT;Nl;0;L;;;;4;N;;;;;
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12674;PROTO-CUNEIFORM NUMERIC SIGN 5 N14;Nl;0;L;;;;5;N;;;;;
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126A2;PROTO-CUNEIFORM NUMERIC SIGN 6 N57;Nl;0;L;;;;6;N;;;;;
126A3;PROTO-CUNEIFORM NUMERIC SIGN 6 N57 VARIANT 1;Nl;0;L;;;;6;N;;;;;
126A4;PROTO-CUNEIFORM NUMERIC SIGN 6 LAGAB-A;Nl;0;L;;;;6;N;;;;;
126A5;PROTO-CUNEIFORM NUMERIC SIGN 7 N1;Nl;0;L;;;;7;N;;;;;
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126A9;PROTO-CUNEIFORM NUMERIC SIGN 7 N14;Nl;0;L;;;;7;N;;;;;
126AA;PROTO-CUNEIFORM NUMERIC SIGN 7 N14 FLAT;Nl;0;L;;;;7;N;;;;;
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126B2;PROTO-CUNEIFORM NUMERIC SIGN 7 N36;Nl;0;L;;;;7;N;;;;;
126B3;PROTO-CUNEIFORM NUMERIC SIGN 7 N45;Nl;0;L;;;;7;N;;;;;
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126C9;PROTO-CUNEIFORM NUMERIC SIGN 8 N57;Nl;0;L;;;;8;N;;;;;
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126CF;PROTO-CUNEIFORM NUMERIC SIGN 9 N8;Nl;0;L;;;;9;N;;;;;
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126D2;PROTO-CUNEIFORM NUMERIC SIGN 9 N18;Nl;0;L;;;;9;N;;;;;
126D3;PROTO-CUNEIFORM NUMERIC SIGN 9 N18 VARIANT 1;Nl;0;L;;;;9;N;;;;;
126D4;PROTO-CUNEIFORM NUMERIC SIGN 9 N19;Nl;0;L;;;;9;N;;;;;
126D5;PROTO-CUNEIFORM NUMERIC SIGN 9 N19 VARIANT 1;Nl;0;L;;;;9;N;;;;;
126D6;PROTO-CUNEIFORM NUMERIC SIGN 9 N19 FLAT;Nl;0;L;;;;9;N;;;;;
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126D8;PROTO-CUNEIFORM NUMERIC SIGN 9 N34;Nl;0;L;;;;9;N;;;;;
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126E7;PROTO-CUNEIFORM SIGN A;Lo;0;L;;;;;N;;;;;
126E8;PROTO-CUNEIFORM SIGN A GUNU;Lo;0;L;;;;;N;;;;;
126E9;PROTO-CUNEIFORM SIGN A TENU;Lo;0;L;;;;;N;;;;;
126EA;PROTO-CUNEIFORM SIGN A2;Lo;0;L;;;;;N;;;;;
126EB;PROTO-CUNEIFORM SIGN AB-A;Lo;0;L;;;;;N;;;;;
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1272C;PROTO-CUNEIFORM SIGN BAHAR2-C;Lo;0;L;;;;;N;;;;;
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1272E;PROTO-CUNEIFORM SIGN BALA-B;Lo;0;L;;;;;N;;;;;
1272F;PROTO-CUNEIFORM SIGN BALA-B VARIANT 1;Lo;0;L;;;;;N;;;;;
12730;PROTO-CUNEIFORM SIGN BALAG;Lo;0;L;;;;;N;;;;;
12731;PROTO-CUNEIFORM SIGN BALAG VARIANT 1;Lo;0;L;;;;;N;;;;;
12732;PROTO-CUNEIFORM SIGN BAN-A;Lo;0;L;;;;;N;;;;;
12733;PROTO-CUNEIFORM SIGN BAN-A VARIANT 1;Lo;0;L;;;;;N;;;;;
12734;PROTO-CUNEIFORM SIGN BAN-A VARIANT 2;Lo;0;L;;;;;N;;;;;
12735;PROTO-CUNEIFORM SIGN BAN-B;Lo;0;L;;;;;N;;;;;
12736;PROTO-CUNEIFORM SIGN BANSZUR-A;Lo;0;L;;;;;N;;;;;
12737;PROTO-CUNEIFORM SIGN BANSZUR-A TENU;Lo;0;L;;;;;N;;;;;
12738;PROTO-CUNEIFORM SIGN BANSZUR-B1;Lo;0;L;;;;;N;;;;;
12739;PROTO-CUNEIFORM SIGN BANSZUR-B2;Lo;0;L;;;;;N;;;;;
1273A;PROTO-CUNEIFORM SIGN BANSZUR-C;Lo;0;L;;;;;N;;;;;
1273B;PROTO-CUNEIFORM SIGN BAPPIR-A;Lo;0;L;;;;;N;;;;;
1273C;PROTO-CUNEIFORM SIGN BAPPIR-B;Lo;0;L;;;;;N;;;;;
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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;;;;;
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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;;;;;
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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;;;;;
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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;;;;;
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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;;;;;
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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;;;;;
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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;;;;;
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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;;;;;
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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;;;;;
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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 SHESSHIG;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;;;;;
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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;;;;;
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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;;;;;
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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;;;;;
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1297E;PROTO-CUNEIFORM SIGN NUN-C;Lo;0;L;;;;;N;;;;;
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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;;;;;
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1298B;PROTO-CUNEIFORM SIGN NUNUZ-C VARIANT 2;Lo;0;L;;;;;N;;;;;
1298C;PROTO-CUNEIFORM SIGN NUNUZ-C VARIANT 3;Lo;0;L;;;;;N;;;;;
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1298F;PROTO-CUNEIFORM SIGN PA-A VARIANT 2;Lo;0;L;;;;;N;;;;;
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12991;PROTO-CUNEIFORM SIGN PA3;Lo;0;L;;;;;N;;;;;
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12993;PROTO-CUNEIFORM SIGN PAD-B;Lo;0;L;;;;;N;;;;;
12994;PROTO-CUNEIFORM SIGN PAP-A;Lo;0;L;;;;;N;;;;;
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12996;PROTO-CUNEIFORM SIGN PAP-B;Lo;0;L;;;;;N;;;;;
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12998;PROTO-CUNEIFORM SIGN PIRIG-A1;Lo;0;L;;;;;N;;;;;
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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;;;;;
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129A3;PROTO-CUNEIFORM SIGN RI;Lo;0;L;;;;;N;;;;;
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129A6;PROTO-CUNEIFORM SIGN RI8-B;Lo;0;L;;;;;N;;;;;
129A7;PROTO-CUNEIFORM SIGN RU;Lo;0;L;;;;;N;;;;;
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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;;;;;
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129C5;PROTO-CUNEIFORM SIGN SI4-F VARIANT 1;Lo;0;L;;;;;N;;;;;
129C6;PROTO-CUNEIFORM SIGN SIG;Lo;0;L;;;;;N;;;;;
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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;;;;;
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129D5;PROTO-CUNEIFORM SIGN SIG2-D2;Lo;0;L;;;;;N;;;;;
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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;;;;;
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129F9;PROTO-CUNEIFORM SIGN SUM-A TENU;Lo;0;L;;;;;N;;;;;
129FA;PROTO-CUNEIFORM SIGN SUM-B;Lo;0;L;;;;;N;;;;;
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129FC;PROTO-CUNEIFORM SIGN SUR;Lo;0;L;;;;;N;;;;;
129FD;PROTO-CUNEIFORM SIGN SUSA;Lo;0;L;;;;;N;;;;;
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129FF;PROTO-CUNEIFORM SIGN SZA VARIANT 1;Lo;0;L;;;;;N;;;;;
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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;;;;;
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12A12;PROTO-CUNEIFORM SIGN SZAKIR-B;Lo;0;L;;;;;N;;;;;
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12A14;PROTO-CUNEIFORM SIGN SZAM2;Lo;0;L;;;;;N;;;;;
12A15;PROTO-CUNEIFORM SIGN SZANDANA-A;Lo;0;L;;;;;N;;;;;
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12A17;PROTO-CUNEIFORM SIGN SZE-A;Lo;0;L;;;;;N;;;;;
12A18;PROTO-CUNEIFORM SIGN SZE-A TENU;Lo;0;L;;;;;N;;;;;
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12A2A;PROTO-CUNEIFORM SIGN SZEN-E;Lo;0;L;;;;;N;;;;;
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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;;;;;
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12A39;PROTO-CUNEIFORM SIGN SZIR-B VARIANT 1;Lo;0;L;;;;;N;;;;;
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12A3F;PROTO-CUNEIFORM SIGN SZITA-A2;Lo;0;L;;;;;N;;;;;
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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;;;;;
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12A64;PROTO-CUNEIFORM SIGN TAK4-A NUTILLU;Lo;0;L;;;;;N;;;;;
12A65;PROTO-CUNEIFORM SIGN TAK4-C;Lo;0;L;;;;;N;;;;;
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12A67;PROTO-CUNEIFORM SIGN TAR-D;Lo;0;L;;;;;N;;;;;
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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;;;;;
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12A6F;PROTO-CUNEIFORM SIGN TILLA2;Lo;0;L;;;;;N;;;;;
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12A71;PROTO-CUNEIFORM SIGN TU-B;Lo;0;L;;;;;N;;;;;
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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;;;;;
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12A89;PROTO-CUNEIFORM SIGN TUR3-C;Lo;0;L;;;;;N;;;;;
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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;;;;;
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12A90;PROTO-CUNEIFORM SIGN U2-A;Lo;0;L;;;;;N;;;;;
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12A9B;PROTO-CUNEIFORM SIGN UD5-A VARIANT 2;Lo;0;L;;;;;N;;;;;
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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;;;;;
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12AAB;PROTO-CUNEIFORM SIGN UKKIN-A VARIANT 1;Lo;0;L;;;;;N;;;;;
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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;;;;;
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12AB8;PROTO-CUNEIFORM SIGN UNUG-B;Lo;0;L;;;;;N;;;;;
12AB9;PROTO-CUNEIFORM SIGN UNUG-C;Lo;0;L;;;;;N;;;;;
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12ABC;PROTO-CUNEIFORM SIGN UR-B;Lo;0;L;;;;;N;;;;;
12ABD;PROTO-CUNEIFORM SIGN UR-C;Lo;0;L;;;;;N;;;;;
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12AC9;PROTO-CUNEIFORM SIGN UR5-B;Lo;0;L;;;;;N;;;;;
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12ACC;PROTO-CUNEIFORM SIGN URI5;Lo;0;L;;;;;N;;;;;
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12AD9;PROTO-CUNEIFORM SIGN URUDU GUNU-D;Lo;0;L;;;;;N;;;;;
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12ADB;PROTO-CUNEIFORM SIGN URUDU-A VARIANT 1;Lo;0;L;;;;;N;;;;;
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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;;;;;
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12AE9;PROTO-CUNEIFORM SIGN UTUA-B VARIANT 1;Lo;0;L;;;;;N;;;;;
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12AF2;PROTO-CUNEIFORM SIGN ZADIM;Lo;0;L;;;;;N;;;;;
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12B48;PROTO-CUNEIFORM SIGN ZATU711 VARIANT 1;Lo;0;L;;;;;N;;;;;
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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;;;;;
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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;;;;;
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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;;;;;
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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;;;;;
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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;;;;;
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12B8F;PROTO-CUNEIFORM SIGN ZATU798;Lo;0;L;;;;;N;;;;;
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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;;;;;
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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;;;;;
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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;;;;;
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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;;;;;
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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;;;;;
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12BC1;PROTO-CUNEIFORM SIGN ZATU851;Lo;0;L;;;;;N;;;;;
12BC2;PROTO-CUNEIFORM SIGN ZATU852;Lo;0;L;;;;;N;;;;;
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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;;;;;
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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;;;;;
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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;;;;;
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12BFE;PROTO-CUNEIFORM SIGN ZATU699-B;Lo;0;L;;;;;N;;;;;
12BFF;PROTO-CUNEIFORM SIGN ZATU707-A;Lo;0;L;;;;;N;;;;;
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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;;;;;
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12C1E;PROTO-CUNEIFORM SIGN ZI-A VARIANT 1;Lo;0;L;;;;;N;;;;;
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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;;;;;
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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   # Nl   [359] PROTO-CUNEIFORM NUMERIC SIGN 1 N1..
                               PROTO-CUNEIFORM NUMERIC SIGN 12 N58
126E7..12CAO;AL   # Nl  [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

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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)
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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

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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

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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 ( ) and DUB ( ), 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 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 , , , , and . Others are denoted by more specific ideograms such as and . 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 • , the sign normally used for "10"). The final product is represented by the numerical sign . The total amount of barley groats needed, which is represented by the sign combination , is obtained when 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 . 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) was calculated. The use of the sign points therefore to the size of such rations (approximately 0.8 liter). The figure 1800 is rendered in the bisexagesimal system, containing the sign for 1200 and 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 the scribe had written in the first text line sign , 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" () with the sign denoting "ten" (•).

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

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

THE WRITING SYSTEM AND ITS RELATIONSHIP TO SPEECH

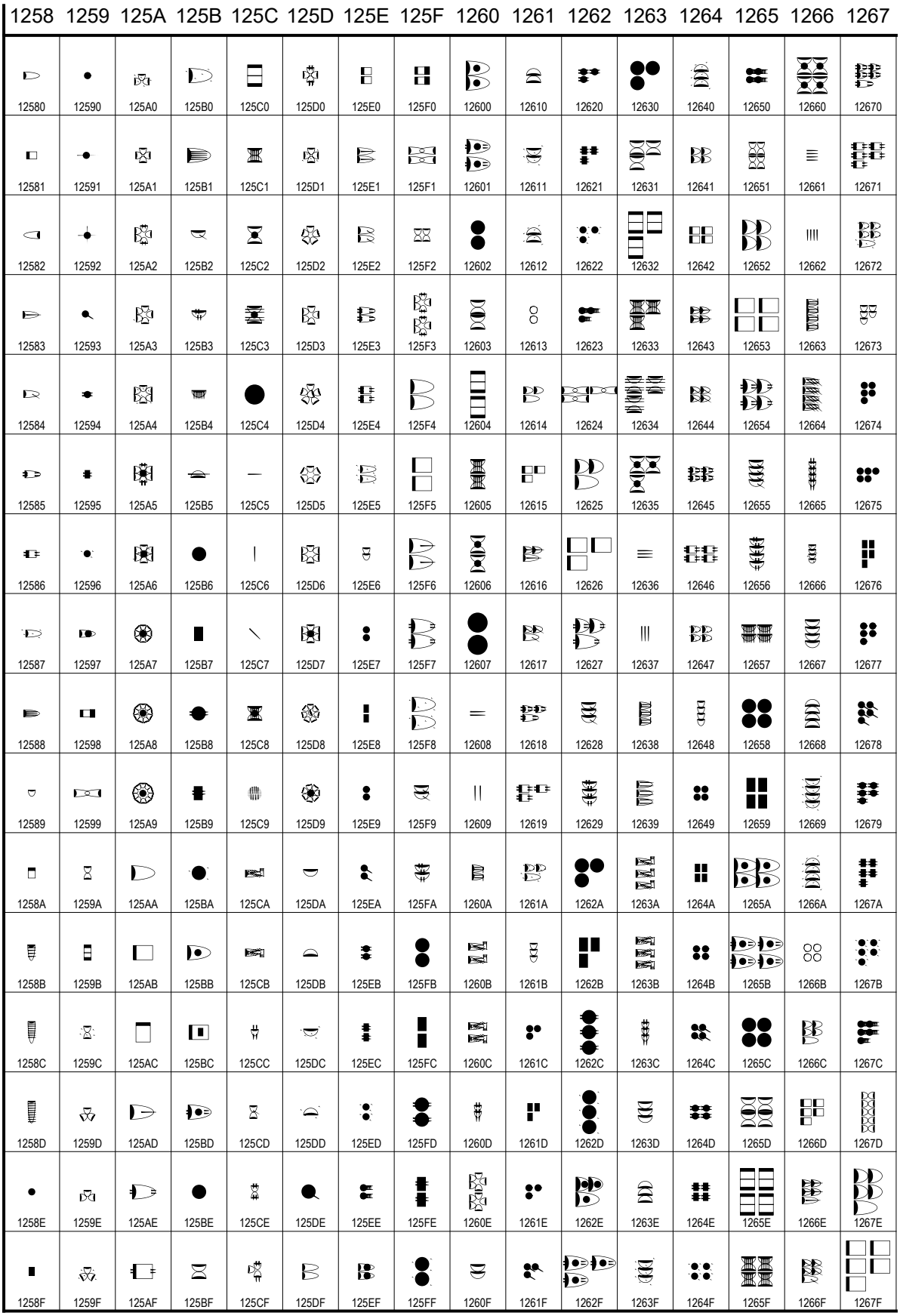
At the root of the cuneiform writing system, as originally conceived, is the logogram, or word sign, which represents a single word or group of semantically related words (see fig. 2.5). Assigning semantically related words to a common graph was done in the interest of economy, as it limited the number 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*$_6$ "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.

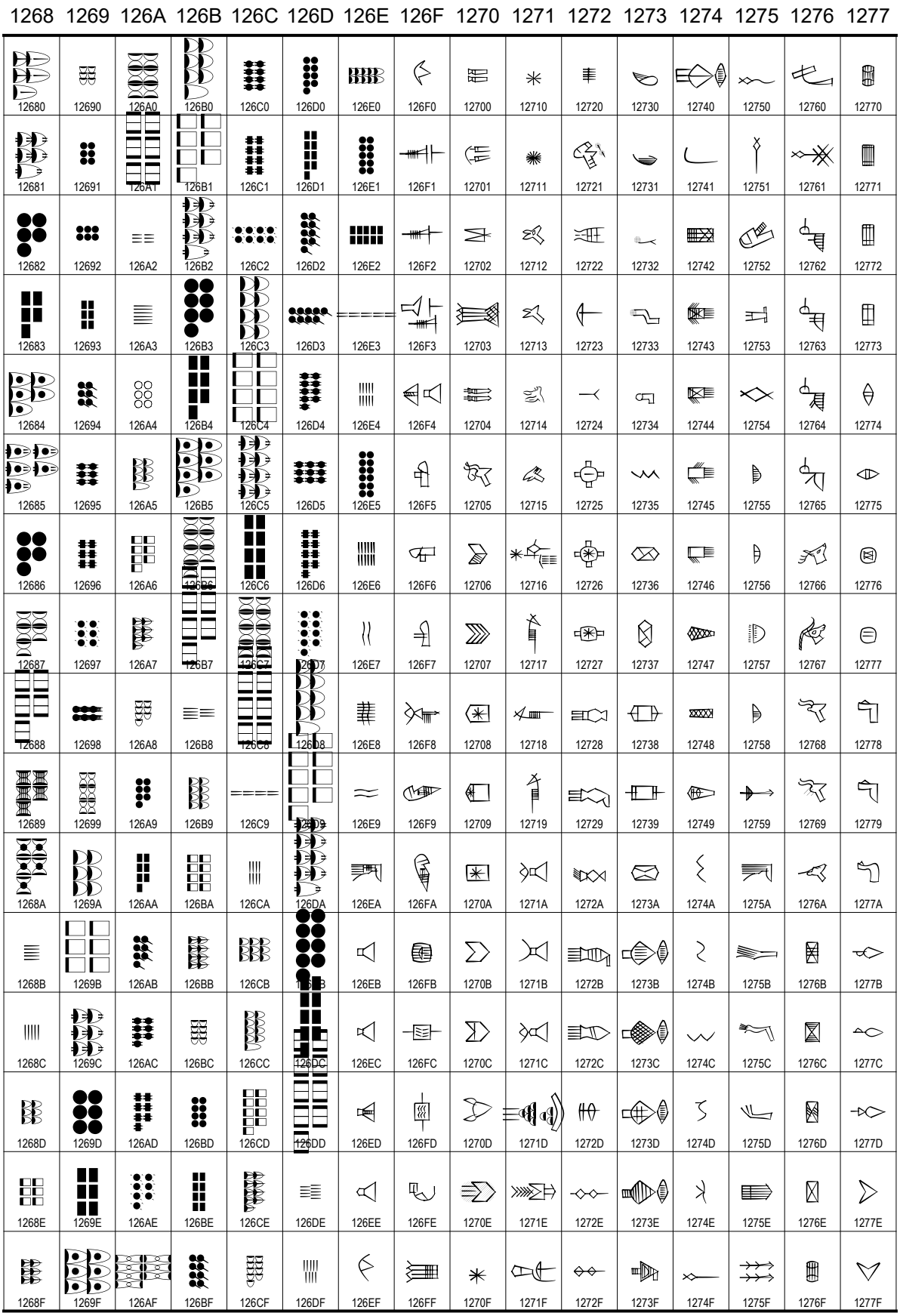
As Sumerian words tend to consist of (but are not exclusively) single syllables, logograms had both a semantic meaning, as representing words, as well as a phonetic value, expressing the syllabic pronunciations of those words. For example, the logogram represented by the graph KU$_6$ (the subscripted 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, (GI$_4$), 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 URI$_3$+NA, , where NA, , is phonetic complement with the value *na* indicating that the graph URI$_3$, , 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, (GI$_4$), pronounced *gi*, is used to express the homophonous verb *gi* "to return"; and the syllabic, that is phonetic, spellings of the city names *Ša*$_3$*-bu* and *Gir*$_2$*-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 12580 12590 125A0 125B0 125C0 125D0 125E0 125F0 12600 12610 12620 12630 12640 12650 12660 12670
1 12581 12591 125A1 125B1 125C1 125D1 125E1 125F1 12601 12611 12621 12631 12641 12651 12661 12671
2 12582 12592 125A2 125B2 125C2 125D2 125E2 125F2 12602 12612 12622 12632 12642 12652 12662 12672
3 12583 12593 125A3 125B3 125C3 125D3 125E3 125F3 12603 12613 12623 12633 12643 12653 12663 12673
4 12584 12594 125A4 125B4 125C4 125D4 125E4 125F4 12604 12614 12624 12634 12644 12654 12664 12674
5 12585 12595 125A5 125B5 125C5 125D5 125E5 125F5 12605 12615 12625 12635 12645 12655 12665 12675
6 12586 12596 125A6 125B6 125C6 125D6 125E6 125F6 12606 12616 12626 12636 12646 12656 12666 12676
7 12587 12597 125A7 125B7 125C7 125D7 125E7 125F7 12607 12617 12627 12637 12647 12657 12667 12677
8 12588 12598 125A8 125B8 125C8 125D8 125E8 125F8 12608 12618 12628 12638 12648 12658 12668 12678
9 12589 12599 125A9 125B9 125C9 125D9 125E9 125F9 12609 12619 12629 12639 12649 12659 12669 12679
A 1258A 1259A 125AA 125BA 125CA 125DA 125EA 125FA 1260A 1261A 1262A 1263A 1264A 1265A 1266A 1267A
B 1258B 1259B 125AB 125BB 125CB 125DB 125EB 125FB 1260B 1261B 1262B 1263B 1264B 1265B 1266B 1267B
C 1258C 1259C 125AC 125BC 125CC 125DC 125EC 125FC 1260C 1261C 1262C 1263C 1264C 1265C 1266C 1267C
D 1258D 1259D 125AD 125BD 125CD 125DD 125ED 125FD 1260D 1261D 1262D 1263D 1264D 1265D 1266D 1267D
E 1258E 1259E 125AE 125BE 125CE 125DE 125EE 125FE 1260E 1261E 1262E 1263E 1264E 1265E 1266E 1267E
F 1258F 1259F 125AF 125BF 125CF 125DF 125EF 125FF 1260F 1261F 1262F 1263F 1264F 1265F 1266F 1267F


1268 1269 126A 126B 126C 126D 126E 126F 1270 1271 1272 1273 1274 1275 1276 1277
0 12680 12690 126A0 126B0 126C0 126D0 126E0 126F0 12700 12710 12720 12730 12740 12750 12760 12770
1 12681 12691 126A1 126B1 126C1 126D1 126E1 126F1 12701 12711 12721 12731 12741 12751 12761 12771
2 12682 12692 126A2 126B2 126C2 126D2 126E2 126F2 12702 12712 12722 12732 12742 12752 12762 12772
3 12683 12693 126A3 126B3 126C3 126D3 126E3 126F3 12703 12713 12723 12733 12743 12753 12763 12773
4 12684 12694 126A4 126B4 126C4 126D4 126E4 126F4 12704 12714 12724 12734 12744 12754 12764 12774
5 12685 12695 126A5 126B5 126C5 126D5 126E5 126F5 12705 12715 12725 12735 12745 12755 12765 12775
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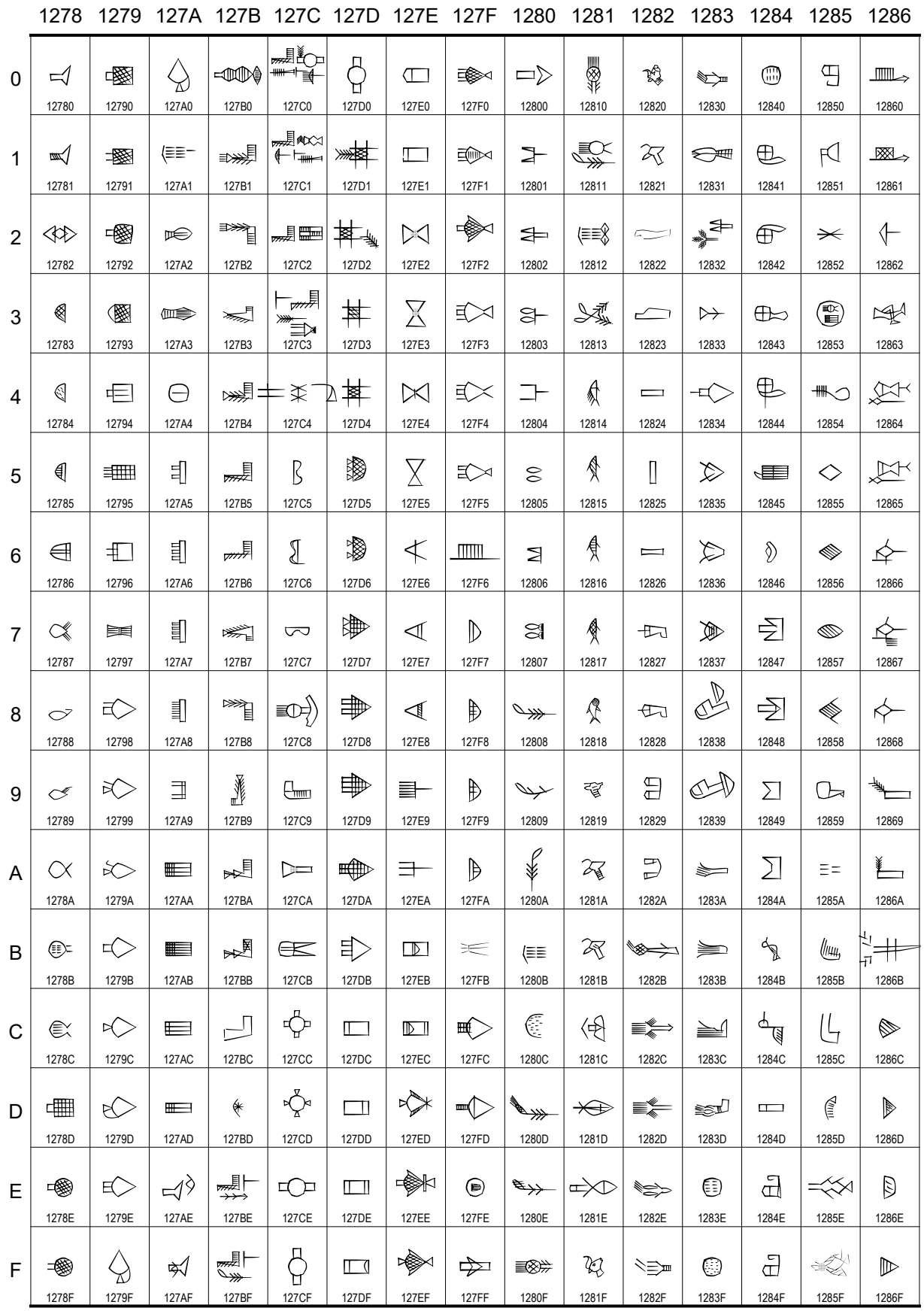
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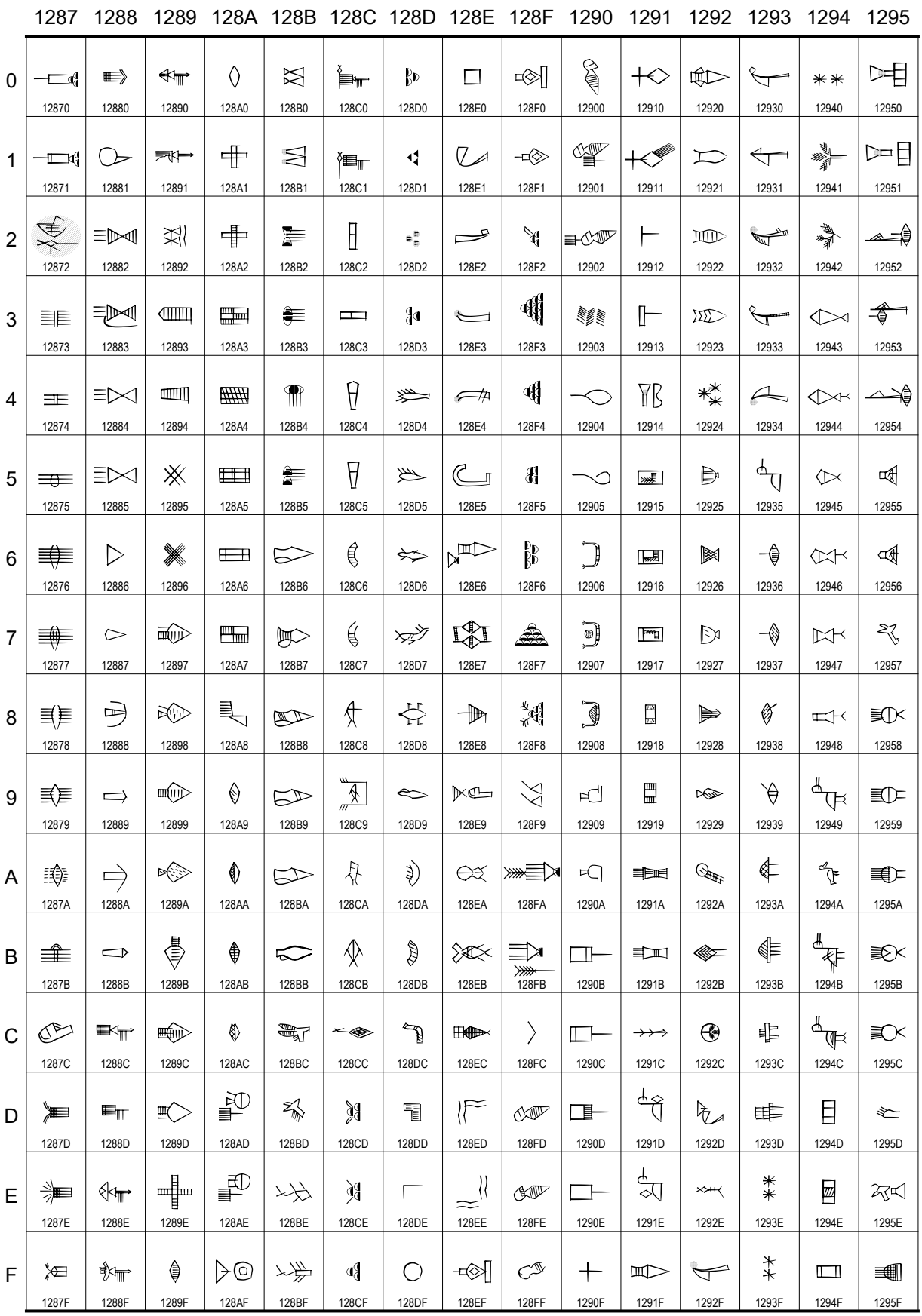
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7	12967	12977	12987	12997	129A7	129B7	129C7	129D7	129E7	129F7	12A07	12A17	12A27	12A37	12A47
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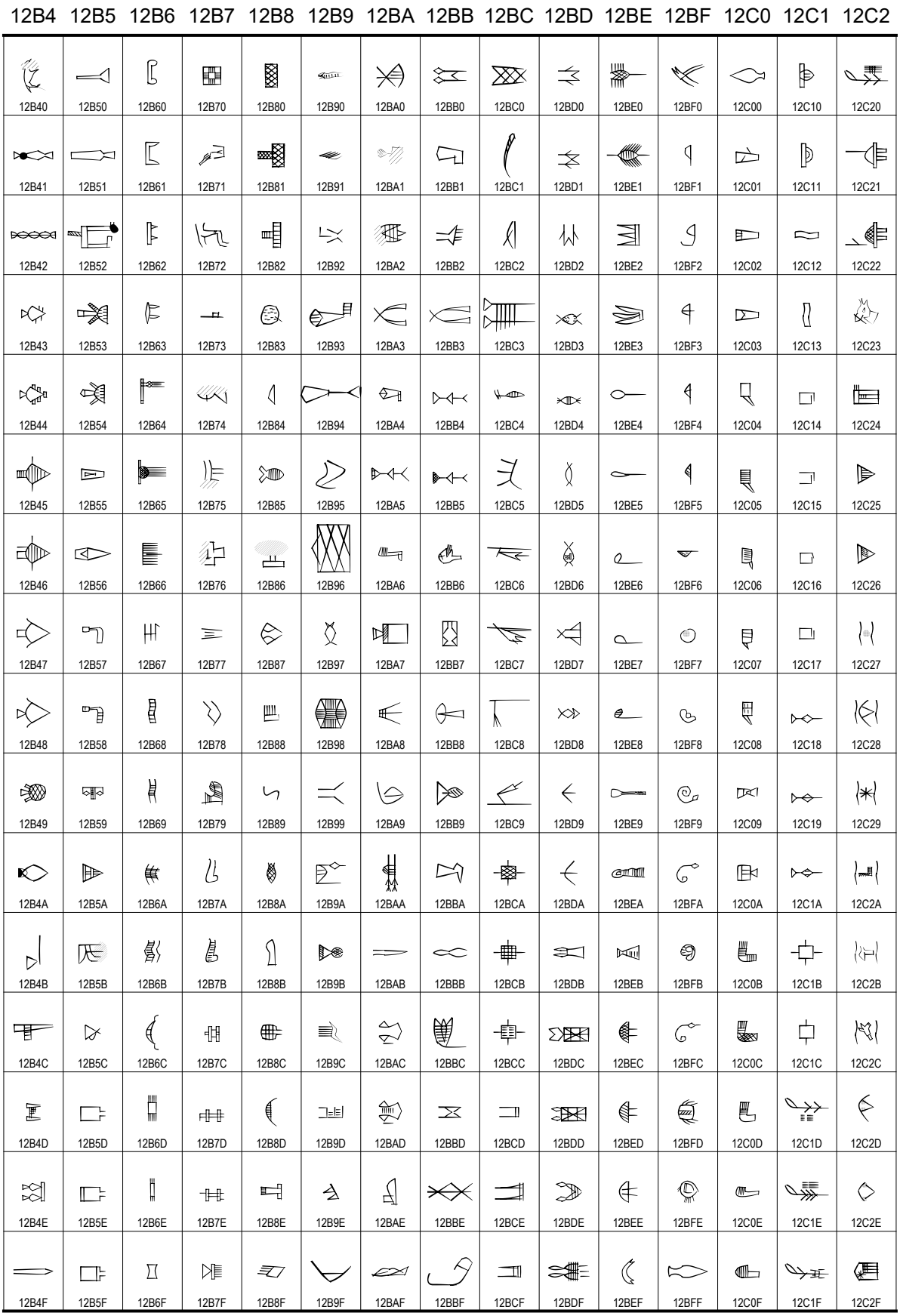
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7	12C37	12C47	12C57	12C67	12C77	12C87	12C97	12CA7							
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C	12C3C	12C4C	12C5C	12C6C	12C7C	12C8C	12C9C								
D	12C3D	12C4D	12C5D	12C6D	12C7D	12C8D	12C9D								
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Numerical signs

12580 PROTO-CUNEIFORM NUMBER 1 N1
12581 PROTO-CUNEIFORM NUMBER 1 N1 FLAT
12582 PROTO-CUNEIFORM NUMBER 1 N1 REVERSED
12583 PROTO-CUNEIFORM NUMBER 1 N2
12584 PROTO-CUNEIFORM NUMBER 1 N3
12585 PROTO-CUNEIFORM NUMBER 1 N4
12586 PROTO-CUNEIFORM NUMBER 1 N4 FLAT
12587 PROTO-CUNEIFORM NUMBER 1 N5
12588 PROTO-CUNEIFORM NUMBER 1 N6
12589 PROTO-CUNEIFORM NUMBER 1 N8
1258A PROTO-CUNEIFORM NUMBER 1 N8 FLAT
1258B PROTO-CUNEIFORM NUMBER 1 N9
1258C PROTO-CUNEIFORM NUMBER 1 N11
1258D PROTO-CUNEIFORM NUMBER 1 N12
1258E PROTO-CUNEIFORM NUMBER 1 N14
1258F PROTO-CUNEIFORM NUMBER 1 N14 FLAT
12590 PROTO-CUNEIFORM NUMBER 1 N15
12591 PROTO-CUNEIFORM NUMBER 1 N16
12592 PROTO-CUNEIFORM NUMBER 1 N17
12593 PROTO-CUNEIFORM NUMBER 1 N18
12594 PROTO-CUNEIFORM NUMBER 1 N19
12595 PROTO-CUNEIFORM NUMBER 1 N19 FLAT
12596 PROTO-CUNEIFORM NUMBER 1 N20
12597 PROTO-CUNEIFORM NUMBER 1 N22
12598 PROTO-CUNEIFORM NUMBER 1 N22 FLAT
12599 PROTO-CUNEIFORM NUMBER 1 N23
1259A PROTO-CUNEIFORM NUMBER 1 N24
1259B PROTO-CUNEIFORM NUMBER 1 N24 FLAT
1259C PROTO-CUNEIFORM NUMBER 1 N25
1259D PROTO-CUNEIFORM NUMBER 1 N26
1259E PROTO-CUNEIFORM NUMBER 1 N26 VARIANT 1
1259F PROTO-CUNEIFORM NUMBER 1 N27
125A0 PROTO-CUNEIFORM NUMBER 1 N27 VARIANT 1
125A1 PROTO-CUNEIFORM NUMBER 1 N28
125A2 PROTO-CUNEIFORM NUMBER 1 N29A-B
125A3 PROTO-CUNEIFORM NUMBER 1 N29A-C
125A4 PROTO-CUNEIFORM NUMBER 1 N30A-C
125A5 PROTO-CUNEIFORM NUMBER 1 N30C-B
125A6 PROTO-CUNEIFORM NUMBER 1 N30C-C
125A7 PROTO-CUNEIFORM NUMBER 1 N31
125A8 PROTO-CUNEIFORM NUMBER 1 N32
125A9 PROTO-CUNEIFORM NUMBER 1 N33
125AA PROTO-CUNEIFORM NUMBER 1 N34
125AB PROTO-CUNEIFORM NUMBER 1 N34 FLAT
125AC PROTO-CUNEIFORM NUMBER 1 N34 FLAT TENU
125AD PROTO-CUNEIFORM NUMBER 1 N35
125AE PROTO-CUNEIFORM NUMBER 1 N36
125AF PROTO-CUNEIFORM NUMBER 1 N36 FLAT
125B0 PROTO-CUNEIFORM NUMBER 1 N37
125B1 PROTO-CUNEIFORM NUMBER 1 N38
125B2 PROTO-CUNEIFORM NUMBER 1 N40
125B3 PROTO-CUNEIFORM NUMBER 1 N41
125B4 PROTO-CUNEIFORM NUMBER 1 N43
125B5 PROTO-CUNEIFORM NUMBER 1 N44
125B6 PROTO-CUNEIFORM NUMBER 1 N45
125B7 PROTO-CUNEIFORM NUMBER 1 N45 FLAT
125B8 PROTO-CUNEIFORM NUMBER 1 N46
125B9 PROTO-CUNEIFORM NUMBER 1 N46 FLAT
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125BB PROTO-CUNEIFORM NUMBER 1 N48
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125BE PROTO-CUNEIFORM NUMBER 1 N50
125BF PROTO-CUNEIFORM NUMBER 1 N51
125C0 PROTO-CUNEIFORM NUMBER 1 N51 FLAT
125C1 PROTO-CUNEIFORM NUMBER 1 N52
125C2 PROTO-CUNEIFORM NUMBER 1 N54
125C3 PROTO-CUNEIFORM NUMBER 1 N55
125C4 PROTO-CUNEIFORM NUMBER 1 N56
125C5 PROTO-CUNEIFORM NUMBER 1 N57
125C6 PROTO-CUNEIFORM NUMBER 1 N58
125C7 PROTO-CUNEIFORM NUMBER 1 N58 TENU
125C8 PROTO-CUNEIFORM NUMBER 1 N60
125C9 PROTO-CUNEIFORM NUMBER 1 N63
125CA PROTO-CUNEIFORM NUMBER 1 N7-A
125CB PROTO-CUNEIFORM NUMBER 1 N7-B
125CC PROTO-CUNEIFORM NUMBER 1 N8-B
125CD PROTO-CUNEIFORM NUMBER 1 N24-A
125CE PROTO-CUNEIFORM NUMBER 1 N24-B
125CF PROTO-CUNEIFORM NUMBER 1 N26-B
125D0 PROTO-CUNEIFORM NUMBER 1 N28-B
125D1 PROTO-CUNEIFORM NUMBER 1 N28-C
125D2 PROTO-CUNEIFORM NUMBER 1 N29-A
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125D4 PROTO-CUNEIFORM NUMBER 1 N29-B
125D5 PROTO-CUNEIFORM NUMBER 1 N30-A
125D6 PROTO-CUNEIFORM NUMBER 1 N30-A VARIANT 1
125D7 PROTO-CUNEIFORM NUMBER 1 N30-C
125D8 PROTO-CUNEIFORM NUMBER 1 N30-D
125D9 PROTO-CUNEIFORM NUMBER 1 N30-E
125DA PROTO-CUNEIFORM NUMBER 1 N39-A
125DB PROTO-CUNEIFORM NUMBER 1 N39-B
125DC PROTO-CUNEIFORM NUMBER 1 N42-A
125DD PROTO-CUNEIFORM NUMBER 1 N42-B
125DE PROTO-CUNEIFORM NUMBER 1 N45-A
125DF PROTO-CUNEIFORM NUMBER 2 N1
125E0 PROTO-CUNEIFORM NUMBER 2 N1 FLAT
125E1 PROTO-CUNEIFORM NUMBER 2 N2
125E2 PROTO-CUNEIFORM NUMBER 2 N3
125E3 PROTO-CUNEIFORM NUMBER 2 N4
125E4 PROTO-CUNEIFORM NUMBER 2 N4 FLAT
125E5 PROTO-CUNEIFORM NUMBER 2 N5
125E6 PROTO-CUNEIFORM NUMBER 2 N8
125E7 PROTO-CUNEIFORM NUMBER 2 N14
125E8 PROTO-CUNEIFORM NUMBER 2 N14 FLAT
125E9 PROTO-CUNEIFORM NUMBER 2 N15
125EA PROTO-CUNEIFORM NUMBER 2 N18
125EB PROTO-CUNEIFORM NUMBER 2 N19
125EC PROTO-CUNEIFORM NUMBER 2 N19 FLAT
125ED PROTO-CUNEIFORM NUMBER 2 N20
125EE PROTO-CUNEIFORM NUMBER 2 N21
125EF PROTO-CUNEIFORM NUMBER 2 N22
125F0 PROTO-CUNEIFORM NUMBER 2 N22 FLAT
125F1 PROTO-CUNEIFORM NUMBER 2 N23
125F2 PROTO-CUNEIFORM NUMBER 2 N24
125F3 PROTO-CUNEIFORM NUMBER 2 N29A-B
125F4 PROTO-CUNEIFORM NUMBER 2 N34
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125F8 PROTO-CUNEIFORM NUMBER 2 N37
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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 1
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 PROTO-CUNEIFORM SIGN AMAR
1270C PROTO-CUNEIFORM SIGN AMAR VARIANT 1
1270D PROTO-CUNEIFORM SIGN AMAR VARIANT 2
1270E PROTO-CUNEIFORM SIGN AMAR GUNU
1270F PROTO-CUNEIFORM SIGN AN
12710 PROTO-CUNEIFORM SIGN AN VARIANT 1
12711 PROTO-CUNEIFORM SIGN AN VARIANT 2
12712 PROTO-CUNEIFORM SIGN ANSZE-A
12713 PROTO-CUNEIFORM SIGN ANSZE-B
12714 PROTO-CUNEIFORM SIGN ANSZE-C
12715 PROTO-CUNEIFORM SIGN ANSZE-E
12716 PROTO-CUNEIFORM SIGN ANZU2
12717 PROTO-CUNEIFORM SIGN APIN-A
12718 PROTO-CUNEIFORM SIGN APIN-B
12719 PROTO-CUNEIFORM SIGN APIN-C
1271A PROTO-CUNEIFORM SIGN ARARMA2-A
1271B PROTO-CUNEIFORM SIGN ARARMA2-A VARIANT 1
1271C PROTO-CUNEIFORM SIGN ARARMA2-B
1271D PROTO-CUNEIFORM SIGN ARATTA
1271E PROTO-CUNEIFORM SIGN ASAL2
1271F PROTO-CUNEIFORM SIGN ASAR
12720 PROTO-CUNEIFORM SIGN ASZ2
12721 PROTO-CUNEIFORM SIGN AZ
12722 PROTO-CUNEIFORM SIGN AZU
12723 PROTO-CUNEIFORM SIGN BA
12724 PROTO-CUNEIFORM SIGN BAD
12725 PROTO-CUNEIFORM SIGN BAD3-A
12726 PROTO-CUNEIFORM SIGN BAD3-B1
12727 PROTO-CUNEIFORM SIGN BAD3-B2
12728 PROTO-CUNEIFORM SIGN BAHAR2-A
12729 PROTO-CUNEIFORM SIGN BAHAR2-A VARIANT 1
1272A PROTO-CUNEIFORM SIGN BAHAR2-B
1272B PROTO-CUNEIFORM SIGN BAHAR2-B VARIANT 1
1272C PROTO-CUNEIFORM SIGN BAHAR2-C
1272D PROTO-CUNEIFORM SIGN BALA-A
1272E PROTO-CUNEIFORM SIGN BALA-B
1272F PROTO-CUNEIFORM SIGN BALA-B VARIANT 1
12730 PROTO-CUNEIFORM SIGN BALAG
12731 PROTO-CUNEIFORM SIGN BALAG VARIANT 1
12732 PROTO-CUNEIFORM SIGN BAN-A
12733 PROTO-CUNEIFORM SIGN BAN-A VARIANT 1
12734 PROTO-CUNEIFORM SIGN BAN-A VARIANT 2
12735 PROTO-CUNEIFORM SIGN BAN-B
12736 PROTO-CUNEIFORM SIGN BANSZUR-A
12737 PROTO-CUNEIFORM SIGN BANSZUR-A TENU
12738 PROTO-CUNEIFORM SIGN BANSZUR-B1
12739 PROTO-CUNEIFORM SIGN BANSZUR-B2
1273A PROTO-CUNEIFORM SIGN BANSZUR-C
1273B PROTO-CUNEIFORM SIGN BAPPIR-A
1273C PROTO-CUNEIFORM SIGN BAPPIR-B
1273D PROTO-CUNEIFORM SIGN BAPPIR-C
1273E PROTO-CUNEIFORM SIGN BAPPIR-D
1273F PROTO-CUNEIFORM SIGN BAPPIR-E
12740 PROTO-CUNEIFORM SIGN BAPPIR-F
12741 PROTO-CUNEIFORM SIGN BAR
12742 PROTO-CUNEIFORM SIGN BARA3
12743 PROTO-CUNEIFORM SIGN BARA2-A
12744 PROTO-CUNEIFORM SIGN BARA2-A VARIANT 1
12745 PROTO-CUNEIFORM SIGN BARA2-B
12746 PROTO-CUNEIFORM SIGN BARA2-B VARIANT 1
12747 PROTO-CUNEIFORM SIGN BIR-A
12748 PROTO-CUNEIFORM SIGN BIR-B
12749 PROTO-CUNEIFORM SIGN BIR-C
1274A PROTO-CUNEIFORM SIGN BIR3-A
1274B PROTO-CUNEIFORM SIGN BIR3-A VARIANT 1
1274C PROTO-CUNEIFORM SIGN BIR3-B
1274D PROTO-CUNEIFORM SIGN BIR3-B VARIANT 1
1274E PROTO-CUNEIFORM SIGN BIR3-C
1274F PROTO-CUNEIFORM SIGN BU-A
12750 PROTO-CUNEIFORM SIGN BU-A VARIANT 1
12751 PROTO-CUNEIFORM SIGN BU-B
12752 PROTO-CUNEIFORM SIGN BU3
12753 PROTO-CUNEIFORM SIGN BULUG
12754 PROTO-CUNEIFORM SIGN BULUG3
12755 PROTO-CUNEIFORM SIGN BUR-A
12756 PROTO-CUNEIFORM SIGN BUR-B
12757 PROTO-CUNEIFORM SIGN BUR-C
12758 PROTO-CUNEIFORM SIGN BUR-D
12759 PROTO-CUNEIFORM SIGN BUR2
1275A PROTO-CUNEIFORM SIGN DA-A
1275B PROTO-CUNEIFORM SIGN DA-B
1275C PROTO-CUNEIFORM SIGN DA-C
1275D PROTO-CUNEIFORM SIGN DA-D
1275E PROTO-CUNEIFORM SIGN DAG
1275F PROTO-CUNEIFORM SIGN DAH
12760 PROTO-CUNEIFORM SIGN DAM
12761 PROTO-CUNEIFORM SIGN DANNA
12762 PROTO-CUNEIFORM SIGN DAR-A
12763 PROTO-CUNEIFORM SIGN DAR-B
12764 PROTO-CUNEIFORM SIGN DAR-C
12765 PROTO-CUNEIFORM SIGN DAR-D
12766 PROTO-CUNEIFORM SIGN DARA3-A
12767 PROTO-CUNEIFORM SIGN DARA3-B
12768 PROTO-CUNEIFORM SIGN DARA3-C
12769 PROTO-CUNEIFORM SIGN DARA3-C VARIANT 1
1276A PROTO-CUNEIFORM SIGN DARA3-D
1276B PROTO-CUNEIFORM SIGN DARA4-A1
1276C PROTO-CUNEIFORM SIGN DARA4-A2
1276D PROTO-CUNEIFORM SIGN DARA4-A3
1276E PROTO-CUNEIFORM SIGN DARA4-B
1276F PROTO-CUNEIFORM SIGN DARA4-C1
12770 PROTO-CUNEIFORM SIGN DARA4-C2
12771 PROTO-CUNEIFORM SIGN DARA4-C3
12772 PROTO-CUNEIFORM SIGN DARA4-C4
12773 PROTO-CUNEIFORM SIGN DARA4-C5
12774 PROTO-CUNEIFORM SIGN DI
12775 PROTO-CUNEIFORM SIGN DI TENU
12776 PROTO-CUNEIFORM SIGN DIB
12777 PROTO-CUNEIFORM SIGN DIB VARIANT 1
12778 PROTO-CUNEIFORM SIGN DILMUN
12779 PROTO-CUNEIFORM SIGN DILMUN VARIANT 1
1277A PROTO-CUNEIFORM SIGN DILMUN VARIANT 2
1277B PROTO-CUNEIFORM SIGN DIM-A
1277C PROTO-CUNEIFORM SIGN DIM-B
1277D PROTO-CUNEIFORM SIGN DIM-C
1277E PROTO-CUNEIFORM SIGN DIN
1277F PROTO-CUNEIFORM SIGN DIN TENU
12780 PROTO-CUNEIFORM SIGN DU
12781 PROTO-CUNEIFORM SIGN DU GUNU
12782 PROTO-CUNEIFORM SIGN DU7
12783 PROTO-CUNEIFORM SIGN DU6-A
12784 PROTO-CUNEIFORM SIGN DU6-A VARIANT 1
12785 PROTO-CUNEIFORM SIGN DU6-B
12786 PROTO-CUNEIFORM SIGN DU6-C
12787 PROTO-CUNEIFORM SIGN DU8-A
12788 PROTO-CUNEIFORM SIGN DU8-B
12789 PROTO-CUNEIFORM SIGN DU8-B VARIANT 1
1278A PROTO-CUNEIFORM SIGN DU8-C
1278B PROTO-CUNEIFORM SIGN DU8-C GUNU
1278C PROTO-CUNEIFORM SIGN DU8-C GUNU VARIANT 1
1278D PROTO-CUNEIFORM SIGN DUB-A
1278E PROTO-CUNEIFORM SIGN DUB-B
1278F PROTO-CUNEIFORM SIGN DUB-B VARIANT 1

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

12816 PROTO-CUNEIFORM SIGN GIR-B VARIANT 1
12817 PROTO-CUNEIFORM SIGN GIR-C
12818 PROTO-CUNEIFORM SIGN GIR-D
12819 PROTO-CUNEIFORM SIGN GIR3 GUNU-A
1281A PROTO-CUNEIFORM SIGN GIR3 GUNU-B
1281B PROTO-CUNEIFORM SIGN GIR3 GUNU-C
1281C PROTO-CUNEIFORM SIGN GIR4
1281D PROTO-CUNEIFORM SIGN GIR2-A
1281E PROTO-CUNEIFORM SIGN GIR2-B
1281F PROTO-CUNEIFORM SIGN GIR3-A
12820 PROTO-CUNEIFORM SIGN GIR3-B
12821 PROTO-CUNEIFORM SIGN GIR3-C
12822 PROTO-CUNEIFORM SIGN GISAL-A
12823 PROTO-CUNEIFORM SIGN GISAL-B
12824 PROTO-CUNEIFORM SIGN GISZ
12825 PROTO-CUNEIFORM SIGN GISZ TENU
12826 PROTO-CUNEIFORM SIGN GISZ-X
12827 PROTO-CUNEIFORM SIGN GISZ3-A
12828 PROTO-CUNEIFORM SIGN GISZ3-B
12829 PROTO-CUNEIFORM SIGN GISZGAL
1282A PROTO-CUNEIFORM SIGN GISZGAL VARIANT 1
1282B PROTO-CUNEIFORM SIGN GISZIMMAR-A1
1282C PROTO-CUNEIFORM SIGN GISZIMMAR-A2
1282D PROTO-CUNEIFORM SIGN GISZIMMAR-A3
1282E PROTO-CUNEIFORM SIGN GISZIMMAR-B1
1282F PROTO-CUNEIFORM SIGN GISZIMMAR-B1 VARIANT 1
12830 PROTO-CUNEIFORM SIGN GISZIMMAR-B1 VARIANT 2
12831 PROTO-CUNEIFORM SIGN GISZIMMAR-B3
12832 PROTO-CUNEIFORM SIGN GIZZAL-X
12833 PROTO-CUNEIFORM SIGN GU
12834 PROTO-CUNEIFORM SIGN GU2
12835 PROTO-CUNEIFORM SIGN GU4
12836 PROTO-CUNEIFORM SIGN GU4 VARIANT 1
12837 PROTO-CUNEIFORM SIGN GU4 GUNU
12838 PROTO-CUNEIFORM SIGN GU7
12839 PROTO-CUNEIFORM SIGN GU7 VARIANT 1
1283A PROTO-CUNEIFORM SIGN GUB3-A
1283B PROTO-CUNEIFORM SIGN GUB3-B
1283C PROTO-CUNEIFORM SIGN GUB3-C
1283D PROTO-CUNEIFORM SIGN GUB3-D
1283E PROTO-CUNEIFORM SIGN GUG2
1283F PROTO-CUNEIFORM SIGN GUG2 VARIANT 1
12840 PROTO-CUNEIFORM SIGN GUG2 TENU
12841 PROTO-CUNEIFORM SIGN GUKKAL-A
12842 PROTO-CUNEIFORM SIGN GUKKAL-B
12843 PROTO-CUNEIFORM SIGN GUKKAL-C
12844 PROTO-CUNEIFORM SIGN GUKKAL-D
12845 PROTO-CUNEIFORM SIGN GUL
12846 PROTO-CUNEIFORM SIGN GUM-A
12847 PROTO-CUNEIFORM SIGN GUM-B
12848 PROTO-CUNEIFORM SIGN GUM-B VARIANT 1
12849 PROTO-CUNEIFORM SIGN GUM-B NUTILLU
1284A PROTO-CUNEIFORM SIGN GUM-B NUTILLU VARIANT 1
1284B PROTO-CUNEIFORM SIGN GUN3-A
1284C PROTO-CUNEIFORM SIGN GUN3-B
1284D PROTO-CUNEIFORM SIGN GUR
1284E PROTO-CUNEIFORM SIGN GURUSZ-A
1284F PROTO-CUNEIFORM SIGN GURUSZ-A VARIANT 1
12850 PROTO-CUNEIFORM SIGN GURUSZ-B
12851 PROTO-CUNEIFORM SIGN GURUSZDA
12852 PROTO-CUNEIFORM SIGN HAL
12853 PROTO-CUNEIFORM SIGN HALUB
12854 PROTO-CUNEIFORM SIGN HASZHUR
12855 PROTO-CUNEIFORM SIGN HI
12856 PROTO-CUNEIFORM SIGN HI GUNU-A
12857 PROTO-CUNEIFORM SIGN HI GUNU-B
12858 PROTO-CUNEIFORM SIGN HI GUNU-C
12859 PROTO-CUNEIFORM SIGN HUB2
1285A PROTO-CUNEIFORM SIGN I
1285B PROTO-CUNEIFORM SIGN IB-A
1285C PROTO-CUNEIFORM SIGN IB-A NUTILLU
1285D PROTO-CUNEIFORM SIGN IB-B
1285E PROTO-CUNEIFORM SIGN IDIGNA
1285F PROTO-CUNEIFORM SIGN IDIGNA VARIANT 1
12860 PROTO-CUNEIFORM SIGN IG-A
12861 PROTO-CUNEIFORM SIGN IG-B
12862 PROTO-CUNEIFORM SIGN IGI
12863 PROTO-CUNEIFORM SIGN IL
12864 PROTO-CUNEIFORM SIGN ILDUM-A
12865 PROTO-CUNEIFORM SIGN ILDUM-B
12866 PROTO-CUNEIFORM SIGN IM-A
12867 PROTO-CUNEIFORM SIGN IM-A GUNU
12868 PROTO-CUNEIFORM SIGN IM-B
12869 PROTO-CUNEIFORM SIGN IN-B
1286A PROTO-CUNEIFORM SIGN IN-B VARIANT 1
1286B PROTO-CUNEIFORM SIGN IN-D
1286C PROTO-CUNEIFORM SIGN IR-A
1286D PROTO-CUNEIFORM SIGN IR-B
1286E PROTO-CUNEIFORM SIGN IR-C
1286F PROTO-CUNEIFORM SIGN IR-D
12870 PROTO-CUNEIFORM SIGN IR11
12871 PROTO-CUNEIFORM SIGN IR11 VARIANT 1
12872 PROTO-CUNEIFORM SIGN IRHAN
12873 PROTO-CUNEIFORM SIGN ISZ-A
12874 PROTO-CUNEIFORM SIGN ISZ-A VARIANT 1
12875 PROTO-CUNEIFORM SIGN ISZ-B
12876 PROTO-CUNEIFORM SIGN ISZ-B VARIANT 1
12877 PROTO-CUNEIFORM SIGN ISZ-B VARIANT 2
12878 PROTO-CUNEIFORM SIGN ISZ-B VARIANT 3
12879 PROTO-CUNEIFORM SIGN ISZ-B VARIANT 4
1287A PROTO-CUNEIFORM SIGN ISZ-B VARIANT 5
1287B PROTO-CUNEIFORM SIGN ISZ-C
1287C PROTO-CUNEIFORM SIGN KA-A
1287D PROTO-CUNEIFORM SIGN KA2-A
1287E PROTO-CUNEIFORM SIGN KA2-B
1287F PROTO-CUNEIFORM SIGN KA2-C
12880 PROTO-CUNEIFORM SIGN KA2-D
12881 PROTO-CUNEIFORM SIGN KAB
12882 PROTO-CUNEIFORM SIGN KAD4-A
12883 PROTO-CUNEIFORM SIGN KAD4-B
12884 PROTO-CUNEIFORM SIGN KAD4-C1
12885 PROTO-CUNEIFORM SIGN KAD4-C2
12886 PROTO-CUNEIFORM SIGN KAK-A
12887 PROTO-CUNEIFORM SIGN KAK-B
12888 PROTO-CUNEIFORM SIGN KAL-A
12889 PROTO-CUNEIFORM SIGN KAL-B1
1288A PROTO-CUNEIFORM SIGN KAL-B1 VARIANT 1
1288B PROTO-CUNEIFORM SIGN KAL-B2
1288C PROTO-CUNEIFORM SIGN KALAM-A
1288D PROTO-CUNEIFORM SIGN KALAM-B
1288E PROTO-CUNEIFORM SIGN KALAM-C
1288F PROTO-CUNEIFORM SIGN KALAM-D
12890 PROTO-CUNEIFORM SIGN KALAM-E
12891 PROTO-CUNEIFORM SIGN KALAM-F
12892 PROTO-CUNEIFORM SIGN KAR
12893 PROTO-CUNEIFORM SIGN KAR2-A
12894 PROTO-CUNEIFORM SIGN KAR2-B
12895 PROTO-CUNEIFORM SIGN KASKAL
12896 PROTO-CUNEIFORM SIGN KASKAL GUNU
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 PROTO-CUNEIFORM SIGN KASZ-B TENU
1289C PROTO-CUNEIFORM SIGN KASZ-C
1289D PROTO-CUNEIFORM SIGN KASZ-D
1289E PROTO-CUNEIFORM SIGN KESZ2
1289F PROTO-CUNEIFORM SIGN KI
128A0 PROTO-CUNEIFORM SIGN KI NUTILLU
128A1 PROTO-CUNEIFORM SIGN KIB
128A2 PROTO-CUNEIFORM SIGN KIB GUNU
128A3 PROTO-CUNEIFORM SIGN KID-A
128A4 PROTO-CUNEIFORM SIGN KID-B
128A5 PROTO-CUNEIFORM SIGN KID-C
128A6 PROTO-CUNEIFORM SIGN KID-D
128A7 PROTO-CUNEIFORM SIGN KID-E
128A8 PROTO-CUNEIFORM SIGN KIN
128A9 PROTO-CUNEIFORM SIGN KIN2-A
128AA PROTO-CUNEIFORM SIGN KIN2-C
128AB PROTO-CUNEIFORM SIGN KIN2-D
128AC PROTO-CUNEIFORM SIGN KIN2-E
128AD PROTO-CUNEIFORM SIGN KINGAL
128AE PROTO-CUNEIFORM SIGN KINGAL VARIANT 1
128AF PROTO-CUNEIFORM SIGN KIR11
128B0 PROTO-CUNEIFORM SIGN KISAL-A1
128B1 PROTO-CUNEIFORM SIGN KISAL-A2
128B2 PROTO-CUNEIFORM SIGN KISAL-B1
128B3 PROTO-CUNEIFORM SIGN KISAL-B2
128B4 PROTO-CUNEIFORM SIGN KISAL-B2 TENU
128B5 PROTO-CUNEIFORM SIGN KISAL-B3
128B6 PROTO-CUNEIFORM SIGN KISIM-A
128B7 PROTO-CUNEIFORM SIGN KISIM-B
128B8 PROTO-CUNEIFORM SIGN KISIM-B VARIANT 1
128B9 PROTO-CUNEIFORM SIGN KISIM-B VARIANT 2
128BA PROTO-CUNEIFORM SIGN KISIM-B VARIANT 3
128BB PROTO-CUNEIFORM SIGN KISIM-C
128BC PROTO-CUNEIFORM SIGN KISZ
128BD PROTO-CUNEIFORM SIGN KISZ VARIANT 1
128BE PROTO-CUNEIFORM SIGN KISZIK-A
128BF PROTO-CUNEIFORM SIGN KISZIK-B
128C0 PROTO-CUNEIFORM SIGN KITI
128C1 PROTO-CUNEIFORM SIGN KITI VARIANT 1
128C2 PROTO-CUNEIFORM SIGN KU-A
128C3 PROTO-CUNEIFORM SIGN KU-A TENU
128C4 PROTO-CUNEIFORM SIGN KU-B1
128C5 PROTO-CUNEIFORM SIGN KU-B2
128C6 PROTO-CUNEIFORM SIGN KU3-A
128C7 PROTO-CUNEIFORM SIGN KU3-C
128C8 PROTO-CUNEIFORM SIGN KU6-A
128C9 PROTO-CUNEIFORM SIGN KU6-A SHESSHIG
128CA PROTO-CUNEIFORM SIGN KU6-C
128CB PROTO-CUNEIFORM SIGN KU6-D
128CC PROTO-CUNEIFORM SIGN KUN
128CD PROTO-CUNEIFORM SIGN KUR GUNU-A
128CE PROTO-CUNEIFORM SIGN KUR GUNU-B
128CF PROTO-CUNEIFORM SIGN KUR-A
128D0 PROTO-CUNEIFORM SIGN KUR-B
128D1 PROTO-CUNEIFORM SIGN KUR-C
128D2 PROTO-CUNEIFORM SIGN KUR-C VARIANT 1
128D3 PROTO-CUNEIFORM SIGN KUR-D
128D4 PROTO-CUNEIFORM SIGN KUSZU2-A
128D5 PROTO-CUNEIFORM SIGN KUSZU2-B
128D6 PROTO-CUNEIFORM SIGN KUSZU2-C
128D7 PROTO-CUNEIFORM SIGN KUSZU2-D
128D8 PROTO-CUNEIFORM SIGN KUSZU2-E
128D9 PROTO-CUNEIFORM SIGN KUSZU2-F
128DA PROTO-CUNEIFORM SIGN LA-B
128DB PROTO-CUNEIFORM SIGN LA-C
128DC PROTO-CUNEIFORM SIGN LA-D
128DD PROTO-CUNEIFORM SIGN LA-E
128DE PROTO-CUNEIFORM SIGN LA2
128DF PROTO-CUNEIFORM SIGN LAGAB-A
128E0 PROTO-CUNEIFORM SIGN LAGAB-B
128E1 PROTO-CUNEIFORM SIGN LAGAR-A
128E2 PROTO-CUNEIFORM SIGN LAGAR-A REVERSED
128E3 PROTO-CUNEIFORM SIGN LAGAR-B1
128E4 PROTO-CUNEIFORM SIGN LAGAR-B2
128E5 PROTO-CUNEIFORM SIGN LAGAR-C
128E6 PROTO-CUNEIFORM SIGN LAHTAN2
128E7 PROTO-CUNEIFORM SIGN LAK025
128E8 PROTO-CUNEIFORM SIGN LAK050
128E9 PROTO-CUNEIFORM SIGN LAK172
128EA PROTO-CUNEIFORM SIGN LAK251
128EB PROTO-CUNEIFORM SIGN LAK350
128EC PROTO-CUNEIFORM SIGN LAK777
128ED PROTO-CUNEIFORM SIGN LAL2-A
128EE PROTO-CUNEIFORM SIGN LAL2-B
128EF PROTO-CUNEIFORM SIGN LAL3-A
128F0 PROTO-CUNEIFORM SIGN LAL3-B
128F1 PROTO-CUNEIFORM SIGN LAL3-C
128F2 PROTO-CUNEIFORM SIGN LAM-A
128F3 PROTO-CUNEIFORM SIGN LAM-B
128F4 PROTO-CUNEIFORM SIGN LAM-B VARIANT 1
128F5 PROTO-CUNEIFORM SIGN LAM-B VARIANT 2
128F6 PROTO-CUNEIFORM SIGN LAM-B REVERSED
128F7 PROTO-CUNEIFORM SIGN LAM-B TENU
128F8 PROTO-CUNEIFORM SIGN LAM-B SHESSHIG
128F9 PROTO-CUNEIFORM SIGN LAM-C
128FA PROTO-CUNEIFORM SIGN LI
128FB PROTO-CUNEIFORM SIGN LI VARIANT 1
128FC PROTO-CUNEIFORM SIGN LISZ
128FD PROTO-CUNEIFORM SIGN LU2
128FE PROTO-CUNEIFORM SIGN LU2 VARIANT 1
128FF PROTO-CUNEIFORM SIGN LU2 VARIANT 2
12900 PROTO-CUNEIFORM SIGN LU2 TENU
12901 PROTO-CUNEIFORM SIGN LUGAL
12902 PROTO-CUNEIFORM SIGN LUGAL VARIANT 1
12903 PROTO-CUNEIFORM SIGN LUM
12904 PROTO-CUNEIFORM SIGN MA
12905 PROTO-CUNEIFORM SIGN MA VARIANT 1
12906 PROTO-CUNEIFORM SIGN MA2
12907 PROTO-CUNEIFORM SIGN MAGUR-A
12908 PROTO-CUNEIFORM SIGN MAGUR-B
12909 PROTO-CUNEIFORM SIGN MAH-A
1290A PROTO-CUNEIFORM SIGN MAH-B
1290B PROTO-CUNEIFORM SIGN MAR-A
1290C PROTO-CUNEIFORM SIGN MAR-A VARIANT 1
1290D PROTO-CUNEIFORM SIGN MAR-A TENU
1290E PROTO-CUNEIFORM SIGN MAR-B
1290F PROTO-CUNEIFORM SIGN MASZ
12910 PROTO-CUNEIFORM SIGN MASZ2
12911 PROTO-CUNEIFORM SIGN MASZ2 GUNU
12912 PROTO-CUNEIFORM SIGN ME-A
12913 PROTO-CUNEIFORM SIGN ME-B
12914 PROTO-CUNEIFORM SIGN ME3
12915 PROTO-CUNEIFORM SIGN MEN-A
12916 PROTO-CUNEIFORM SIGN MEN-A VARIANT 1
12917 PROTO-CUNEIFORM SIGN MEN-B
12918 PROTO-CUNEIFORM SIGN MES
12919 PROTO-CUNEIFORM SIGN MES VARIANT 1
1291A PROTO-CUNEIFORM SIGN MIR-A
1291B PROTO-CUNEIFORM SIGN MIR-B
1291C PROTO-CUNEIFORM SIGN MU
1291D PROTO-CUNEIFORM SIGN MUD
1291E PROTO-CUNEIFORM SIGN MUD VARIANT 1
1291F PROTO-CUNEIFORM SIGN MUD3-A
12920 PROTO-CUNEIFORM SIGN MUD3-A GUNU
12921 PROTO-CUNEIFORM SIGN MUD3-B

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

129A0 PROTO-CUNEIFORM SIGN RAD-A GUNU
129A1 PROTO-CUNEIFORM SIGN RAD-A TENU
129A2 PROTO-CUNEIFORM SIGN RAD-B
129A3 PROTO-CUNEIFORM SIGN RI
129A4 PROTO-CUNEIFORM SIGN RI-X
129A5 PROTO-CUNEIFORM SIGN RI8-A
129A6 PROTO-CUNEIFORM SIGN RI8-B
129A7 PROTO-CUNEIFORM SIGN RU
129A8 PROTO-CUNEIFORM SIGN RU VARIANT 1
129A9 PROTO-CUNEIFORM SIGN RU TENU
129AA PROTO-CUNEIFORM SIGN SA-A
129AB PROTO-CUNEIFORM SIGN SA-C
129AC PROTO-CUNEIFORM SIGN SA-C VARIANT 1
129AD PROTO-CUNEIFORM SIGN SAG
129AE PROTO-CUNEIFORM SIGN SAG VARIANT 1
129AF PROTO-CUNEIFORM SIGN SAG VARIANT 2
129B0 PROTO-CUNEIFORM SIGN SAG GUNU
129B1 PROTO-CUNEIFORM SIGN SAG NUTILLU
129B2 PROTO-CUNEIFORM SIGN SAGSZU
129B3 PROTO-CUNEIFORM SIGN SAL
129B4 PROTO-CUNEIFORM SIGN SANGA-A
129B5 PROTO-CUNEIFORM SIGN SANGA-A VARIANT 1
129B6 PROTO-CUNEIFORM SIGN SANGA-A VARIANT 2
129B7 PROTO-CUNEIFORM SIGN SANGA-B
129B8 PROTO-CUNEIFORM SIGN SANGA-B VARIANT 1
129B9 PROTO-CUNEIFORM SIGN SANGA-C
129BA PROTO-CUNEIFORM SIGN SAR-A
129BB PROTO-CUNEIFORM SIGN SAR-B
129BC PROTO-CUNEIFORM SIGN SAR-C
129BD PROTO-CUNEIFORM SIGN SI
129BE PROTO-CUNEIFORM SIGN SI VARIANT 1
129BF PROTO-CUNEIFORM SIGN SI4-A
129C0 PROTO-CUNEIFORM SIGN SI4-B
129C1 PROTO-CUNEIFORM SIGN SI4-C
129C2 PROTO-CUNEIFORM SIGN SI4-D
129C3 PROTO-CUNEIFORM SIGN SI4-D VARIANT 1
129C4 PROTO-CUNEIFORM SIGN SI4-F
129C5 PROTO-CUNEIFORM SIGN SI4-F VARIANT 1
129C6 PROTO-CUNEIFORM SIGN SIG
129C7 PROTO-CUNEIFORM SIGN SIG GUNU
129C8 PROTO-CUNEIFORM SIGN SIG4
129C9 PROTO-CUNEIFORM SIGN SIG7
129CA PROTO-CUNEIFORM SIGN SIG7 VARIANT 1
129CB PROTO-CUNEIFORM SIGN SIG2-A1
129CC PROTO-CUNEIFORM SIGN SIG2-A2
129CD PROTO-CUNEIFORM SIGN SIG2-A3
129CE PROTO-CUNEIFORM SIGN SIG2-A3 VARIANT 1
129CF PROTO-CUNEIFORM SIGN SIG2-A3 VARIANT 2
129D0 PROTO-CUNEIFORM SIGN SIG2-A4
129D1 PROTO-CUNEIFORM SIGN SIG2-B
129D2 PROTO-CUNEIFORM SIGN SIG2-C1
129D3 PROTO-CUNEIFORM SIGN SIG2-C2
129D4 PROTO-CUNEIFORM SIGN SIG2-D1
129D5 PROTO-CUNEIFORM SIGN SIG2-D2
129D6 PROTO-CUNEIFORM SIGN SIG2-D2 VARIANT 1
129D7 PROTO-CUNEIFORM SIGN SIG2-D3
129D8 PROTO-CUNEIFORM SIGN SIG2-D4
129D9 PROTO-CUNEIFORM SIGN SIG2-E
129DA PROTO-CUNEIFORM SIGN SIKIL
129DB PROTO-CUNEIFORM SIGN SILA3-A
129DC PROTO-CUNEIFORM SIGN SILA3-B
129DD PROTO-CUNEIFORM SIGN SILA3-C
129DE PROTO-CUNEIFORM SIGN SILA4-A
129DF PROTO-CUNEIFORM SIGN SILA4-B
129E0 PROTO-CUNEIFORM SIGN SILA4-C
129E1 PROTO-CUNEIFORM SIGN SILA4-D
129E2 PROTO-CUNEIFORM SIGN SILANITA
129E3 PROTO-CUNEIFORM SIGN SIMUG
129E4 PROTO-CUNEIFORM SIGN SIMUG VARIANT 1
129E5 PROTO-CUNEIFORM SIGN SIPA
129E6 PROTO-CUNEIFORM SIGN SU-A
129E7 PROTO-CUNEIFORM SIGN SU-A VARIANT 1
129E8 PROTO-CUNEIFORM SIGN SU-B
129E9 PROTO-CUNEIFORM SIGN SU3
129EA PROTO-CUNEIFORM SIGN SUG
129EB PROTO-CUNEIFORM SIGN SUG5
129EC PROTO-CUNEIFORM SIGN SUH3
129ED PROTO-CUNEIFORM SIGN SUHUR
129EE PROTO-CUNEIFORM SIGN SUHUR GUNU
129EF PROTO-CUNEIFORM SIGN SUHUR NUTILLU
129F0 PROTO-CUNEIFORM SIGN SUKKAL
129F1 PROTO-CUNEIFORM SIGN SUKUD
129F2 PROTO-CUNEIFORM SIGN SUKUD GUNU-A
129F3 PROTO-CUNEIFORM SIGN SUKUD GUNU-B
129F4 PROTO-CUNEIFORM SIGN SUKUD GUNU-B VARIANT 1
129F5 PROTO-CUNEIFORM SIGN SUKUD GUNU-C
129F6 PROTO-CUNEIFORM SIGN SUKUD GUNU-D
129F7 PROTO-CUNEIFORM SIGN SUM-A
129F8 PROTO-CUNEIFORM SIGN SUM-A VARIANT 1
129F9 PROTO-CUNEIFORM SIGN SUM-A TENU
129FA PROTO-CUNEIFORM SIGN SUM-B
129FB PROTO-CUNEIFORM SIGN SUMASZ
129FC PROTO-CUNEIFORM SIGN SUR
129FD PROTO-CUNEIFORM SIGN SUSA
129FE PROTO-CUNEIFORM SIGN SZA
129FF PROTO-CUNEIFORM SIGN SZA VARIANT 1
12A00 PROTO-CUNEIFORM SIGN SZA VARIANT 2
12A01 PROTO-CUNEIFORM SIGN SZA GUNU
12A02 PROTO-CUNEIFORM SIGN SZA3-A1
12A03 PROTO-CUNEIFORM SIGN SZA3-A2
12A04 PROTO-CUNEIFORM SIGN SZA3-B
12A05 PROTO-CUNEIFORM SIGN SZA3-C
12A06 PROTO-CUNEIFORM SIGN SZA3-D
12A07 PROTO-CUNEIFORM SIGN SZAB-A
12A08 PROTO-CUNEIFORM SIGN SZAB-A VARIANT 1
12A09 PROTO-CUNEIFORM SIGN SZAB-B
12A0A PROTO-CUNEIFORM SIGN SZAB-B VARIANT 1
12A0B PROTO-CUNEIFORM SIGN SZAGAN
12A0C PROTO-CUNEIFORM SIGN SZAGAN VARIANT 1
12A0D PROTO-CUNEIFORM SIGN SZAGINA
12A0E PROTO-CUNEIFORM SIGN SZAH2-A
12A0F PROTO-CUNEIFORM SIGN SZAH2-B
12A10 PROTO-CUNEIFORM SIGN SZAH2-C
12A11 PROTO-CUNEIFORM SIGN SZAKIR-A
12A12 PROTO-CUNEIFORM SIGN SZAKIR-B
12A13 PROTO-CUNEIFORM SIGN SZAKIR-C
12A14 PROTO-CUNEIFORM SIGN SZAM2
12A15 PROTO-CUNEIFORM SIGN SZANDANA-A
12A16 PROTO-CUNEIFORM SIGN SZANDANA-B
12A17 PROTO-CUNEIFORM SIGN SZE-A
12A18 PROTO-CUNEIFORM SIGN SZE-A TENU
12A19 PROTO-CUNEIFORM SIGN SZE-B
12A1A PROTO-CUNEIFORM SIGN SZE-C
12A1B PROTO-CUNEIFORM SIGN SZE3
12A1C PROTO-CUNEIFORM SIGN SZE3 VARIANT 1
12A1D PROTO-CUNEIFORM SIGN SZE3 TENU
12A1E PROTO-CUNEIFORM SIGN SZE3 TENU VARIANT 1
12A1F PROTO-CUNEIFORM SIGN SZEG9
12A20 PROTO-CUNEIFORM SIGN SZELU
12A21 PROTO-CUNEIFORM SIGN SZEN-A
12A22 PROTO-CUNEIFORM SIGN SZEN-A VARIANT 1
12A23 PROTO-CUNEIFORM SIGN SZEN-B

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

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

12B2F PROTO-CUNEIFORM SIGN ZATU684
12B30 PROTO-CUNEIFORM SIGN ZATU685
12B31 PROTO-CUNEIFORM SIGN ZATU687
12B32 PROTO-CUNEIFORM SIGN ZATU689
12B33 PROTO-CUNEIFORM SIGN ZATU690
12B34 PROTO-CUNEIFORM SIGN ZATU691
12B35 PROTO-CUNEIFORM SIGN ZATU692
12B36 PROTO-CUNEIFORM SIGN ZATU693
12B37 PROTO-CUNEIFORM SIGN ZATU693 VARIANT 1
12B38 PROTO-CUNEIFORM SIGN ZATU693 VARIANT 2
12B39 PROTO-CUNEIFORM SIGN ZATU693 TENU
12B3A PROTO-CUNEIFORM SIGN ZATU695
12B3B PROTO-CUNEIFORM SIGN ZATU696
12B3C PROTO-CUNEIFORM SIGN ZATU700
12B3D PROTO-CUNEIFORM SIGN ZATU701
12B3E PROTO-CUNEIFORM SIGN ZATU702
12B3F PROTO-CUNEIFORM SIGN ZATU703
12B40 PROTO-CUNEIFORM SIGN ZATU704
12B41 PROTO-CUNEIFORM SIGN ZATU705
12B42 PROTO-CUNEIFORM SIGN ZATU706
12B43 PROTO-CUNEIFORM SIGN ZATU708
12B44 PROTO-CUNEIFORM SIGN ZATU709
12B45 PROTO-CUNEIFORM SIGN ZATU710
12B46 PROTO-CUNEIFORM SIGN ZATU710 VARIANT 1
12B47 PROTO-CUNEIFORM SIGN ZATU711
12B48 PROTO-CUNEIFORM SIGN ZATU711 VARIANT 1
12B49 PROTO-CUNEIFORM SIGN ZATU713
12B4A PROTO-CUNEIFORM SIGN ZATU714
12B4B PROTO-CUNEIFORM SIGN ZATU717
12B4C PROTO-CUNEIFORM SIGN ZATU718
12B4D PROTO-CUNEIFORM SIGN ZATU719
12B4E PROTO-CUNEIFORM SIGN ZATU720
12B4F PROTO-CUNEIFORM SIGN ZATU721
12B50 PROTO-CUNEIFORM SIGN ZATU722
12B51 PROTO-CUNEIFORM SIGN ZATU723
12B52 PROTO-CUNEIFORM SIGN ZATU724
12B53 PROTO-CUNEIFORM SIGN ZATU725
12B54 PROTO-CUNEIFORM SIGN ZATU725 VARIANT 1
12B55 PROTO-CUNEIFORM SIGN ZATU727
12B56 PROTO-CUNEIFORM SIGN ZATU728
12B57 PROTO-CUNEIFORM SIGN ZATU729
12B58 PROTO-CUNEIFORM SIGN ZATU729 VARIANT 1
12B59 PROTO-CUNEIFORM SIGN ZATU730
12B5A PROTO-CUNEIFORM SIGN ZATU732
12B5B PROTO-CUNEIFORM SIGN ZATU733
12B5C PROTO-CUNEIFORM SIGN ZATU734
12B5D PROTO-CUNEIFORM SIGN ZATU737
12B5E PROTO-CUNEIFORM SIGN ZATU737 VARIANT 1
12B5F PROTO-CUNEIFORM SIGN ZATU737 VARIANT 2
12B60 PROTO-CUNEIFORM SIGN ZATU750
12B61 PROTO-CUNEIFORM SIGN ZATU750 VARIANT 1
12B62 PROTO-CUNEIFORM SIGN ZATU750 VARIANT 2
12B63 PROTO-CUNEIFORM SIGN ZATU750 VARIANT 3
12B64 PROTO-CUNEIFORM SIGN ZATU752
12B65 PROTO-CUNEIFORM SIGN ZATU752 VARIANT 1
12B66 PROTO-CUNEIFORM SIGN ZATU753
12B67 PROTO-CUNEIFORM SIGN ZATU754
12B68 PROTO-CUNEIFORM SIGN ZATU756
12B69 PROTO-CUNEIFORM SIGN ZATU756 VARIANT 1
12B6A PROTO-CUNEIFORM SIGN ZATU757
12B6B PROTO-CUNEIFORM SIGN ZATU757 VARIANT 1
12B6C PROTO-CUNEIFORM SIGN ZATU758
12B6D PROTO-CUNEIFORM SIGN ZATU759
12B6E PROTO-CUNEIFORM SIGN ZATU759 VARIANT 1
12B6F PROTO-CUNEIFORM SIGN ZATU761
12B70 PROTO-CUNEIFORM SIGN ZATU764
12B71 PROTO-CUNEIFORM SIGN ZATU765
12B72 PROTO-CUNEIFORM SIGN ZATU766
12B73 PROTO-CUNEIFORM SIGN ZATU767
12B74 PROTO-CUNEIFORM SIGN ZATU768
12B75 PROTO-CUNEIFORM SIGN ZATU769
12B76 PROTO-CUNEIFORM SIGN ZATU771
12B77 PROTO-CUNEIFORM SIGN ZATU772
12B78 PROTO-CUNEIFORM SIGN ZATU774
12B79 PROTO-CUNEIFORM SIGN ZATU775
12B7A PROTO-CUNEIFORM SIGN ZATU776
12B7B PROTO-CUNEIFORM SIGN ZATU776 VARIANT 1
12B7C PROTO-CUNEIFORM SIGN ZATU777
12B7D PROTO-CUNEIFORM SIGN ZATU777 VARIANT 1
12B7E PROTO-CUNEIFORM SIGN ZATU777 VARIANT 2
12B7F PROTO-CUNEIFORM SIGN ZATU778
12B80 PROTO-CUNEIFORM SIGN ZATU779
12B81 PROTO-CUNEIFORM SIGN ZATU780
12B82 PROTO-CUNEIFORM SIGN ZATU781
12B83 PROTO-CUNEIFORM SIGN ZATU782
12B84 PROTO-CUNEIFORM SIGN ZATU783
12B85 PROTO-CUNEIFORM SIGN ZATU784
12B86 PROTO-CUNEIFORM SIGN ZATU785
12B87 PROTO-CUNEIFORM SIGN ZATU786
12B88 PROTO-CUNEIFORM SIGN ZATU787
12B89 PROTO-CUNEIFORM SIGN ZATU788
12B8A PROTO-CUNEIFORM SIGN ZATU789
12B8B PROTO-CUNEIFORM SIGN ZATU791
12B8C PROTO-CUNEIFORM SIGN ZATU792
12B8D PROTO-CUNEIFORM SIGN ZATU795
12B8E PROTO-CUNEIFORM SIGN ZATU797
12B8F PROTO-CUNEIFORM SIGN ZATU798
12B90 PROTO-CUNEIFORM SIGN ZATU799
12B91 PROTO-CUNEIFORM SIGN ZATU800
12B92 PROTO-CUNEIFORM SIGN ZATU801
12B93 PROTO-CUNEIFORM SIGN ZATU802
12B94 PROTO-CUNEIFORM SIGN ZATU803
12B95 PROTO-CUNEIFORM SIGN ZATU804
12B96 PROTO-CUNEIFORM SIGN ZATU805
12B97 PROTO-CUNEIFORM SIGN ZATU806
12B98 PROTO-CUNEIFORM SIGN ZATU807
12B99 PROTO-CUNEIFORM SIGN ZATU808
12B9A PROTO-CUNEIFORM SIGN ZATU809
12B9B PROTO-CUNEIFORM SIGN ZATU810
12B9C PROTO-CUNEIFORM SIGN ZATU811
12B9D PROTO-CUNEIFORM SIGN ZATU812
12B9E PROTO-CUNEIFORM SIGN ZATU813
12B9F PROTO-CUNEIFORM SIGN ZATU814
12BA0 PROTO-CUNEIFORM SIGN ZATU815
12BA1 PROTO-CUNEIFORM SIGN ZATU817
12BA2 PROTO-CUNEIFORM SIGN ZATU818
12BA3 PROTO-CUNEIFORM SIGN ZATU819
12BA4 PROTO-CUNEIFORM SIGN ZATU820
12BA5 PROTO-CUNEIFORM SIGN ZATU821
12BA6 PROTO-CUNEIFORM SIGN ZATU822
12BA7 PROTO-CUNEIFORM SIGN ZATU823
12BA8 PROTO-CUNEIFORM SIGN ZATU824
12BA9 PROTO-CUNEIFORM SIGN ZATU825
12BAA PROTO-CUNEIFORM SIGN ZATU826
12BAB PROTO-CUNEIFORM SIGN ZATU829
12BAC PROTO-CUNEIFORM SIGN ZATU831
12BAD PROTO-CUNEIFORM SIGN ZATU831 GUNU
12BAE PROTO-CUNEIFORM SIGN ZATU832
12BAF PROTO-CUNEIFORM SIGN ZATU833
12BB0 PROTO-CUNEIFORM SIGN ZATU834
12BB1 PROTO-CUNEIFORM SIGN ZATU835
12BB2 PROTO-CUNEIFORM SIGN ZATU836
12BB3 PROTO-CUNEIFORM SIGN ZATU838
12BB4 PROTO-CUNEIFORM SIGN ZATU839
12BB5 PROTO-CUNEIFORM SIGN ZATU839 VARIANT 1
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
12C2E PROTO-CUNEIFORM SIGN AB2 CONTAINING 2 N14 VARIANT 1
12C2F PROTO-CUNEIFORM SIGN AMA-A CONTAINING E2-A
12C30 PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-A
12C31 PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-A VARIANT 1
12C32 PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-A NUTILLU
12C33 PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-B
12C34 PROTO-CUNEIFORM SIGN DAR-A CONTAINING A
12C35 PROTO-CUNEIFORM SIGN DARA3-C CONTAINING KAR2
12C36 PROTO-CUNEIFORM SIGN DARA3-C CONTAINING KAR2 BESIDE SZE-A
12C37 PROTO-CUNEIFORM SIGN DARA3-D CONTAINING KAR2
12C38 PROTO-CUNEIFORM SIGN DARA3-D CONTAINING KAR2 VARIANT 1
12C39 PROTO-CUNEIFORM SIGN DARA3-D CONTAINING KAR2 VARIANT 2
12C3A PROTO-CUNEIFORM SIGN DARA3-D CONTAINING KAR2 BESIDE SZE-A
12C3B PROTO-CUNEIFORM SIGN DIM-A CONTAINING GU
12C3C PROTO-CUNEIFORM SIGN DU CONTAINING DISZ
12C3D PROTO-CUNEIFORM SIGN DU6-A CONTAINING DISZ
12C3E PROTO-CUNEIFORM SIGN DUB CONTAINING DISZ-A
12C3F PROTO-CUNEIFORM SIGN DUB CONTAINING DISZ-B
12C40 PROTO-CUNEIFORM SIGN DUB CONTAINING DISZ-C
12C41 PROTO-CUNEIFORM SIGN E2-A CONTAINING 1 N57 TENU
12C42 PROTO-CUNEIFORM SIGN E2-A CONTAINING 3 N58
12C43 PROTO-CUNEIFORM SIGN E2-B CONTAINING 1 N57 TENU
12C44 PROTO-CUNEIFORM SIGN EN-C OVER EN-C
12C45 PROTO-CUNEIFORM SIGN ESZDA CONTAINING TAR
12C46 PROTO-CUNEIFORM SIGN GESZTU-A CONTAINING SZE-A TENU
12C47 PROTO-CUNEIFORM SIGN GI CONTAINING 1 N14
12C48 PROTO-CUNEIFORM SIGN GI CONTAINING 1 N58 TENU
12C49 PROTO-CUNEIFORM SIGN GIR3-A CONTAINING SZE-B
12C4A PROTO-CUNEIFORM SIGN GIR3-C CONTAINING KAR2
12C4B PROTO-CUNEIFORM SIGN GIR3-C CONTAINING SZE3
12C4C PROTO-CUNEIFORM SIGN GISZ CONTAINING DIN BESIDE DIN-A
12C4D PROTO-CUNEIFORM SIGN GISZ CONTAINING DIN BESIDE DIN-B
12C4E PROTO-CUNEIFORM SIGN GISZ CONTAINING DIN BESIDE DIN-C
12C4F PROTO-CUNEIFORM SIGN GUKKAL-A BESIDE HI GUNU-A
12C50 PROTO-CUNEIFORM SIGN GURUSZ-A CONTAINING 2 N14
12C51 PROTO-CUNEIFORM SIGN GURUSZ-B CONTAINING 2 N14
12C52 PROTO-CUNEIFORM SIGN GURUSZ-C CONTAINING 2 N14
12C53 PROTO-CUNEIFORM SIGN HASZHUR CONTAINING MA
12C54 PROTO-CUNEIFORM SIGN HI CONTAINING 1 N57 TENU
12C55 PROTO-CUNEIFORM SIGN HI CONTAINING SZE3 TENU
12C56 PROTO-CUNEIFORM SIGN HI CONTAINING ZATU707-A
12C57 PROTO-CUNEIFORM SIGN KA-A CONTAINING SAR-A
12C58 PROTO-CUNEIFORM SIGN KA-A BESIDE SZE-A
12C59 PROTO-CUNEIFORM SIGN KA-A BESIDE SZE-A VARIANT 1
12C5A PROTO-CUNEIFORM SIGN KA2 CONTAINING LAM
12C5B PROTO-CUNEIFORM SIGN KAK-A BESIDE GA2-A1
12C5C PROTO-CUNEIFORM SIGN KASZ-B CONTAINING SZE-A
12C5D PROTO-CUNEIFORM SIGN KI NUTILLU CONTAINING DUB-A
12C5E PROTO-CUNEIFORM SIGN KU6-A JOINED WITH GISZ
12C5F PROTO-CUNEIFORM SIGN KU6-A JOINED WITH KU6-A
12C60 PROTO-CUNEIFORM SIGN LAGAB-A CONTAINING 2 N14
12C61 PROTO-CUNEIFORM SIGN LU2 CONTAINING GESZTU-C3
12C62 PROTO-CUNEIFORM SIGN MA CONTAINING 1 N58
12C63 PROTO-CUNEIFORM SIGN MA CONTAINING 2 N57
12C64 PROTO-CUNEIFORM SIGN MA CONTAINING MA
12C65 PROTO-CUNEIFORM SIGN MAR-B CONTAINING LAGAB-B BESIDE SZE3
12C66 PROTO-CUNEIFORM SIGN MUD3-A GUNU CONTAINING GU
12C67 PROTO-CUNEIFORM SIGN MUSZEN CONTAINING 1 N57
12C68 PROTO-CUNEIFORM SIGN MUSZEN CONTAINING 2 N57
12C69 PROTO-CUNEIFORM SIGN MUSZEN CONTAINING 3 N57
12C6A PROTO-CUNEIFORM SIGN NI-A CONTAINING 1 N57
12C6B PROTO-CUNEIFORM SIGN NI-B CONTAINING 4 N57
12C6C PROTO-CUNEIFORM SIGN NIR-A CONTAINING AN
12C6D PROTO-CUNEIFORM SIGN NUN-A JOINED WITH EN-A
12C6E PROTO-CUNEIFORM SIGN NUN-A JOINED WITH EN-B
12C6F PROTO-CUNEIFORM SIGN NUN-A JOINED WITH EN-D
12C70 PROTO-CUNEIFORM SIGN NUN-B JOINED WITH EN-A
12C71 PROTO-CUNEIFORM SIGN PIRIG-B1 CONTAINING UR2
12C72 PROTO-CUNEIFORM SIGN SAG CONTAINING 1 N14
12C73 PROTO-CUNEIFORM SIGN SAG CONTAINING GESZTU-A
12C74 PROTO-CUNEIFORM SIGN SAG CONTAINING GESZTU-C
12C75 PROTO-CUNEIFORM SIGN SAG CONTAINING MA
12C76 PROTO-CUNEIFORM SIGN SAG CONTAINING SAR-A
12C77 PROTO-CUNEIFORM SIGN SAL CONTAINING 1 N58
12C78 PROTO-CUNEIFORM SIGN SI 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