

Proposal to Encode Proto-Cuneiform

Anshuman Pandey and Steve Tinney, 2025-06-07

This is a revised proposal to encode ‘Proto-Cuneiform’ (ISO 15924 Pcus) characters in Unicode. These characters belong to the earliest attested writing system, which emerged at the end of the 4th millennium BCE in Uruk, a region between the Tigris and Euphrates rivers, in what is commonly referred to as Mesopotamia. Proto-Cuneiform is a pictographic script, with symbols etched or pressed onto clay surfaces. This writing system was used initially for administrative and accounting purposes. Over time, these pictographs were replaced with more abstract signs, which are known as ‘cuneiform’. Accordingly, this ancestral writing system is known as ‘proto-cuneiform’. The ‘Sumero-Akkadian Cuneiform’ and ‘Early Dynastic Cuneiform’ blocks in Unicode contain these cuneiform signs. Apart from the source materials, Proto-Cuneiform signs are depicted in scholarly publications, both in tables and in running text. Currently, these signs are displayed using images or fonts mapped to other script blocks due to the absence of a Unicode encoding. The aim of this proposal is to encode in Unicode a well-defined repertoire that will enable the representation of Proto-Cuneiform characters in plain text.

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1 Previous Proposals

This proposal supersedes the following documents:

- [L2/16-267] = L2/16-267: “Preliminary proposal to encode Proto-Cuneiform in the SMP” (Everson & Hawkins)
- [L2/17-157] = L2/17-157: “Proposal to encode Proto-Cuneiform in the SMP of the UCS” (Everson & Hawkins)
- [L2/19-284] = L2/19-284: “Proposal to Encode Proto-Cuneiform in the SMP of the UCS” (Hawkins)
- [L2/20-193] = L2/20-193: “Preliminary proposal to encode Proto-Cuneiform in Unicode” (Pandey)
- [L2/22-239] = L2/22-239: “Revised proposal to encode Proto-Cuneiform in Unicode” (Pandey)
- [L2/23-190] = L2/23-190: “Revised proposal to encode Proto-Cuneiform in Unicode” (Pandey)

This revision supersedes recommendations made by Stephen Tinney in the following document related to the composition of the scholarly and Unicode repertoires:

- [L2/24-211] = L2/24-211: “Comments on L2/23-190 Revised proposal to encode Proto-Cuneiform in Unicode”

Most numerical signs have been moved to:

- [L2/24-210] = L2/24-210: “Archaic Cuneiform Numerals” (Leroy)

Major changes and enhancements from the previous proposal (L2/23-190) include:

- A revised set of principles on which the encoding is based
- Alignment of the encoding with established disciplinary practices
- Use of all available published and digital data for Proto-Cuneiform rather than sole reliance on the CDLI-gh collection of sign images
- Several hundred previously encoded characters are treated as non-contrastive variants, following disciplinary standards, and are not encoded separately
- Over two hundred previously encoded characters are treated as sequences and are not encoded separately.

2 The Archaic Period in Mesopotamia

Proto-cuneiform script was invented in the second half of the third millennium BCE and used until the early part of the second millennium BCE, approximately 3500-2900 BCE, generally known as the Archaic Period. This period was extensively described and discussed, with special reference to texts and writing, by the late Robert K. Englund in his magisterial book-within-a-book “Texts from the Late Uruk Period”, pages 1-233 in J. Bauer, R.K. Englund and M. Krebernik, *Mesopotamien: Spätruk-Zeit und Frhodynastische Zeit* (Orbis Biblicus et Orientalis 160/1). Gottingen, 1998, available as an open access download at <https://www.zora.uzh.ch/id/eprint/151545/>. The following sketch is based on Englund’s discussion to which the reader is referred for a detailed account.

2.1 Birth of Cities

The flourishing of urbanization in southern Mesopotamia during the fourth millennium BCE gave rise to several major centres of which the best known and most excavated is that of Uruk. Major institutional buildings, new artistic forms illustrating the importance of the ruler and the relationship of the ruler and the gods, and the invention of writing are all features of socio-political developments in the first cities.

Networks of canals connected important centres and the distribution of material culture and writing show that the world of the Archaic Uruk period was characterized by significant interaction between communities.

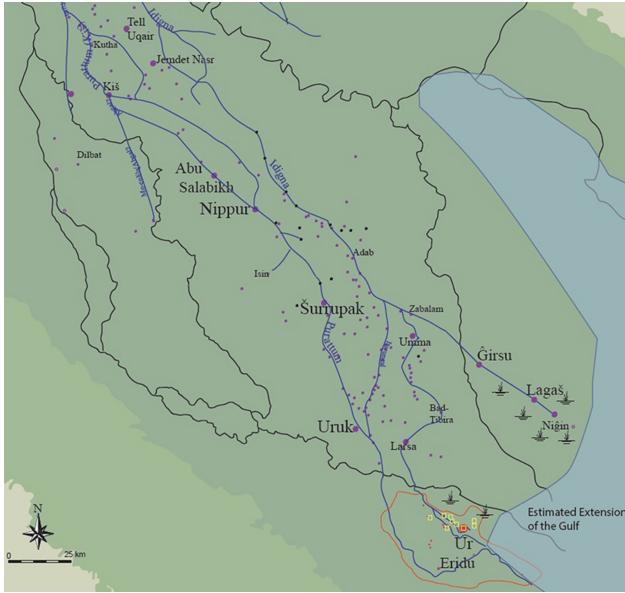


Figure 1: Map of southern Iraq showing canal networks and key settlements of the late fourth and early third millennia BCE (after Benati, <https://cdli.earth/articles/cdlj/2015-2>)

2.2 History

We cannot write a political history of the late fourth millennium, and the lack of archaeological context for key Uruk period finds means that we must resort to dating the tablet finds by relative paleographical criteria rather than by documented archaeological findspots.

As Englund demonstrates, however, archaic administrative texts reflect organized agriculture, animal husbandry, and other production. The documents evidence social hierarchy and specialization and some texts can be understood as inventories of labourers, possibly slaves captured in military operations.

The sporadic nature of both archaeological excavations and text corpora is another impediment to a continuous history of these early periods. Figure 2 provides a schematic overview of the sequence of major text finds in the 'Writing Phase' column. The entry 'Clay bullae and numerical tablets' in the Writing Phase column is the equivalent of the periodic classification Uruk V. Only small groups of texts are omitted from the subsequent Late Uruk (Uruk IV and Uruk III) into the Jemdet Nasr period (examples include Uqair, Larsa). For ED I-II we have only the ED I-II Ur texts and a few dozen tablets from Uruk which are later than archaic. Then the record is silent until Fara (Šuruppak).

2.3 Major Text Corpora

The largest and most important group of archaic texts was excavated in the city of Uruk. The tablets were found in secondary context, meaning that the relative dating of tablets to Uruk IV or the later Uruk III is not based on stratigraphy but on formal and palaeographic features. About 100 tablets and bullae are assigned to the Uruk V period which precedes Uruk IV by an uncertain amount of time.

2.3.1 Administrative Texts

The bulk of the archaic tablets are administrative documents. They exhibit varying degrees of complexity from simple tags or one-transaction memos to multi-transactional summaries with a relatively complex organization of cases as indicated in figures 3 and 4.

This form of spatial division of the tablets into cases which are often quite narrow gives rise to an important feature of the writing of combinations of signs, which may be placed beside, above, or otherwise near each other

	Period	Writing Phase	Historical Developments
3400		Clay bullae and numerical tablets	Beginning of large-scale settlement of Babylonia
3300	Late Uruk	Archaic texts from Uruk: Writing Phase Uruk IV, Writing Phase Uruk III	First urban centers Age of early civilization
3200			
3100			
3000	Jemdet Nasr		
2900	Early Dynastic I	Archaic texts from Ur	
2800			
2700	Early Dynastic II		Formation of large irrigation networks
2600		Texts from Fara	
2500	Early Dynastic III	Old Sumerian texts	Rival city-states
2400			
2300	Dynasty of Akkad	Old Akkadian texts	First regional state
2200			
2100	Gudea of Lagash Ur III	Neo-Sumerian texts	Centralized state of the 3rd Dynasty of Ur
2000			

Figure 2: Chronological overview of early Mesopotamia from Englund p.23.

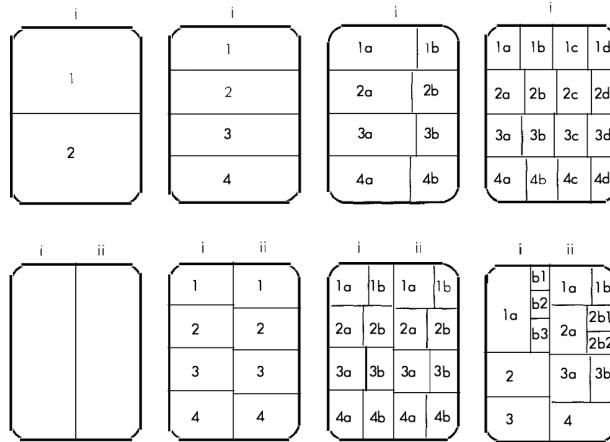


Figure 3: Sample tablet organizations; the CDLI transliterations utilize dotted line numbers to address cases of the form 1a.b2 etc.

as space permits, and may be written in varying order depending partly on the space available in the box into which the signs have to fit.

2.3.2 Lexical Lists

The other important—but numerically far fewer—group of texts are the word lists that Assyriologists generally refer to as 'Lexical Texts'. These appear in the earliest phases of writing and are especially well evidenced in Uruk III texts. Importantly, many of these lexical lists continue into the Early Dynastic period, where manuscripts from Fara and Abu Salabikh write the same content but in contemporary cuneiform. This provides the best evidence for the alignment of PC and SAC, but an account of these alignments is beyond the scope of Unicode.

The disciplinary practice with lexical lists, which are attested mostly in small fragments containing only a few lines of the text, is to create composites which allow for an overview of the list and in which each individual entry is evidenced by one or more manuscripts. A sample composite is given in the figure above, and examples of lexical tablets are below.

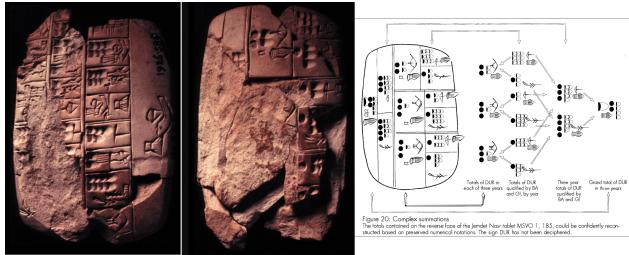


Figure 4: The complex summation MSVO 1, 185 with Englund's analysis.

2.4 Writing Phases

The precise analysis of writing phases in the Uruk texts is hampered by the lack of tablet finds in primary archaeological context. The general assumption is that earlier sign forms are more curved; have a greater variety of angles; or are drawn with a pointed stylus rather than being constructed of cuneiform strokes. Englund's discussion of this is accompanied by a figure which is unfortunately absent from the PDF of the book; his Figure 22 is reproduced here.

2.5 Vocabulary

The language of the archaic corpus is uncertain: many would accept that it is Sumerian, but for Englund and others this remains stubbornly unprovable. Despite this, continuities between PC and later cuneiform, contextual inferences drawn from counting and measuring systems, and the similarity of some signs to the objects they picture all combine to allow the general sense of many signs or groups of signs to be divined. Two of Englund's figures are chosen here to illustrate this point, but the entirety of "Texts from the Late Uruk Period" is in a sense his demonstration that the archaic corpus—contrary to what some might think—is increasingly well understood.

3 Rationale for Separately Encoding Proto-Cuneiform

At the meeting of the Initiative for Cuneiform Encoding in 2000, it was determined that “the encoding of proto-cuneiform is initially, but not necessarily ultimately, beyond the purview of the project cuneiform encoding” [L2/00-398]. When the principles for encoding the cuneiform script were set out in [L2/03-162], the question of unification with the script of the archaic period was left open.

The initial scope of the encoding covered the cuneiform script as used from the Ur III period through the first millennium, although a few distinctions only apparent in the Early Dynastic period, such as IM vs. NI₂, and a few characters used only in the Early Dynastic period, such as ZAM_x(ELLes 396), were also captured in the initial encoding in Unicode Version 5.0. The scope of the cuneiform script was expanded two and a half centuries back in time in Unicode Version 8.0 with the addition of the Early Dynastic Cuneiform block, based on the Early Dynastic IIIa repertoire in [Dei22]; see the proposal [L2/12-208].

At first glance, it may therefore seem possible to expand the scope of the cuneiform script further to the fourth millennium. The expansion of the glyptic range would be minor compared to its current extent; consider the variety of glyphs for U+1214B CUNEIFORM SIGN IL, from Early Dynastic IIb to Old Babylonian and Neo-Assyrian . Indeed the glyphs of some proto-cuneiform signs would lie within the glyptic range of some archaizing Early Dynastic inscriptions: compare the sign LAK500 or on the shoulder of the ED IIIb statue of [P222640] with the reference glyph proposed for U+12860 PROTO-CUNEIFORM SIGN IL.

This impression of unifiability is reinforced by the treatment of the Uruk and Jemdet Nasr forms as another column in the diachronic [LL95], and the concordances with [Dei22] and multiple Sumerian readings for each sign given in [GN87, pp. 167–346], as in any other cuneiform sign list.

However, a discontinuity in the approach to sign identity in proto-cuneiform appears in [GN87, pp. 347 sqq.]. Wary of letting a Sumerian reading based on third millennium texts hide distinctions specific to the fourth millennium

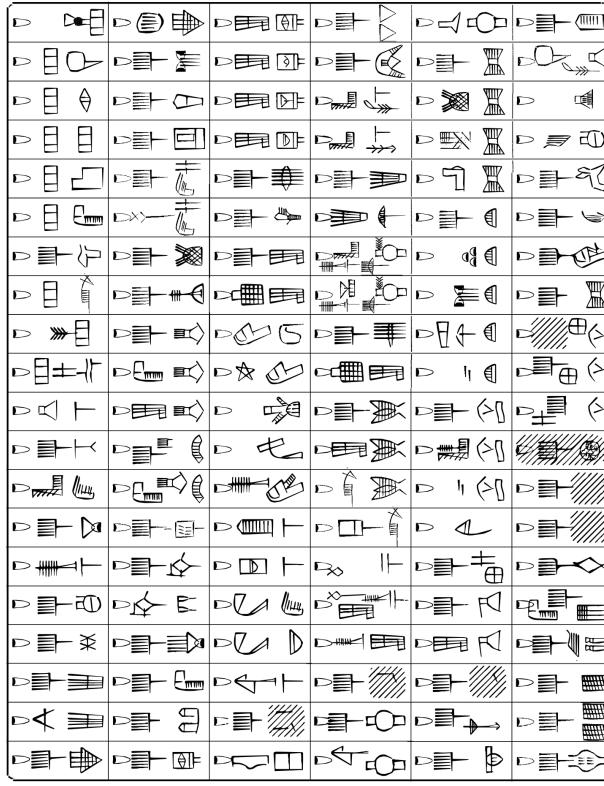


Figure 5: Englund's composite of the professions/occupations list, Lu. Shaded areas are entries that cannot be fully reconstructed from the extant manuscripts.

corpus, Englund makes major changes to the identification of signs, which have been followed in proto-cuneiform studies since:

1. Switching to a system of opaque sign names without interpretation, for instance, always GAR for the proposed U+127EF PROTO-CUNEIFORM SIGN GAR regardless of context rather than a context-dependent reading gar (heap), nin₂ (thing), or ninda (bread) and interchangeable GAR, NIJ₂, or NINDA when referring to the abstract sign for U+120FB CUNEIFORM SIGN GAR.
2. Avoiding sign names based on Sumerian readings of sign sequences, so that 𒊩 is generally transliterated as a sequence, MUŠEN ŠE_a, rather than UZ_a.
3. Classifying allographs, for instance, KAŠ_a through KAŠ_d for variants of signs representing pots, whose cuneiform reflex is likely U+12049 CUNEIFORM SIGN BI (=KAŠ).

The classification of allographs can reveal semantic contrasts; for instance, the signs 𒆷 KAŠ_a and 𒆸 KAŠ_b appear to correspond to pots containing different substances, see [Eng98, p. 168], even though the linguistic distinction is unknown. In other cases, no semantic contrast can be identified, as between 𒆹 KAŠ_b and 𒆻 KAŠ_c. Effectively, from a character encoding standpoint, this approach to character identity is more akin to the one used for undeciphered scripts, and is contradictory to the model for a fully-deciphered script, where orthographic distinctions are encodable, but stylistic ones are not, even when they are somewhat systematic. The avoidance of readings is also incompatible with a unified model, because it conflicts with the diachronic handling of mergers and splits. For signs that split in later phases of cuneiform, but have identical appearances in the early third millennium, such as MES and DUB, an interoperable encoding is obtained based on the reading: a sign read mes is encoded as U+12229, and a sign read dub is encoded as U+1207E. However, if the proto-cuneiform approach is followed and the sign is invariably transliterated as DUB, the resulting encoding may be incompatible with the one based on a Sumerian reading; see the example of the personal name 𒈪-𒈪-𒈪 mes-lu₂-nu-še₃ in Section 3.1.



Figure 6: Sample lexical tablets: P000006, P000011, P000025

The same holds for the avoidance of readings of sign sequences; an interoperable encoding of cuneiform is achieved by reading it as *nunuz uz^{mušen}* “duck eggs”, and accordingly using the UZ sign, U+122BB whereas is read as *šila₃ še mušen niga* “šila of barley for fattening the birds”, and thus encoded using the sequence (U+122BA , U+12137). In general, this means that in the cuneiform script, interoperability is retained regardless of whether a particular *diri* (compound sign sequence) is encoded as a sequence, like or , or atomically, like or . In contrast, most transliterations of proto-cuneiform texts involving ducks transliterate them as a sequence, MUŠEN ŠE_a. Even ignoring this inconsistency of encoding between fourth and third millennium texts in a putative unified encoding, a further problem would arise from the occasional transliteration that lets itself be influence by a Sumerian reading: a few transliterations, primarily those of composite lexical texts, use compound readings such as UZa. If these were encoded as cuneiform, the composites would then use the atomic signs, and would have an encoding inconsistent with their witnesses.

Finally, the opaque labels used as sign names, while initially based on an educated guess at the cuneiform reflex, need to be stable, and are therefore retained even when they prove to be incorrect as mappings to cuneiform signs; for instance, the proto-cuneiform sign ŠITA_{b3} turns out not to be related to ŠITA, but instead to SILA_x(LAK636) [Wag16, p. 220]; proto-cuneiform KAB is not the ancestor of cuneiform KAB, but instead that of HUB₂ and TUKU [Wag16, p. 274], a misnomer perhaps attributable to the second millennium - merger. The actual relation between proto-cuneiform and cuneiform signs is often more complex than a one-to-one mapping; see for instance [Wag16, p. 217] on the development of proto-cuneiform IM_a and NI₂ into cuneiform TE, IM, and NI₂, or [Wag16, p. 220] on the three proto-cuneiform ancestors of LAK636. In many cases, it is still poorly understood and may remain so.

These structural incompatibilities in the analysis of character identity, which stem from a now well-established approach to the fourth millennium texts ultimately motivated by the avoidance of assumptions about their language, therefore require a disunified approach.

3.1 ED I-II Excluded from the Proposal

It is generally recognized that there is a group of about 400 texts from the site of Ur which are later than Proto-Cuneiform but earlier than the ED IIIa corpus from Fara (Šuruppak): these are conventionally assigned to the Early Dynastic I-II period. There are also about two dozen tablets and fragments from Uruk that are assigned to the same period (Green; Lecompte nXXX).

Texts and signs from this period are excluded from the proto-cuneiform proposal.

In Englund's exhaustive discussion of the Archaic texts, he includes this period in his concluding remarks as the 8th phase of proto-cuneiform:

8. Period of late proto-cuneiform

Ca. 2800-2700 B.C. (Early Dynastic 1), this period is characterized by the earliest apparently multi-valent use of proto-cuneiform to write Sumerian words in personal names. The archaic numerical systems were used, but in simplified forms, and the lexical lists were copied and transmitted, but no new lists were added. Tablets were as a rule clumsily formed and inscribed. (Englund OBO 160/1 [1998], p.215).

Appearing about 15 years later, Lecompte and Verderame's edition of ED I-II fragments from Ur observed that

The Nature of Proto-Cuneiform and the Sumerian Question – Research of proto-cuneiform

	Uruk IV	Uruk III	Uruk IV	Uruk III
DUG _b			EN	
DUG _a		Pots		
DUG _c				
KAŠ _a			SANGA	
AB _a		Sea ²		
GU _a		Oxen		
AMAR		Calves		
2 SAH ₂		Pigs		
BU _a		Snakes		
SAG		Men		
TUR		Children		
			4 AN	
			GA	

Figure 7: Englund's overview of Uruk IV/Uruk III sign forms.

	Age	Sex	Females	Males
			Ug	UDUNITA UDUNITA UDUNITA
SMALL CATTLE: SHEEP AND GOATS	Wool Sheep	Adults	 	 a  b  c
		Juveniles	KIR11  	SILANITA  
	Fleeced Sheep (?)			 a   b  d
		Adults	    UD ₅	MAŠ ₂ 
Goats	Juveniles		EŠGAR  	MAŠ 
		Adults		

Figure 8: Signs for ovi-caprids, after Englund.

there are key features of the writing system that depart from the earlier PC practices, and by analysis of both personal names and the contexts of the texts that they are written in Sumerian language:

We decided to follow in the transliteration the system that is commonly accepted for Sumerian, thus in small type and in accordance with the values of the signs available on the e-PSD website or in aBZL. We did not adopt the codes applied to the archaic texts from Uruk and Jemdet Nasr, although the transliteration available for lexical tablets in ATU 3 follows such a system for the ED I-II period. This choice is justified by the fact that the signs in the texts from Ur do not seem to present the same variants as their archaic forerunners: for example, the different shapes of E₂ cannot be classified into E₂-a, E₂-b...; furthermore, some signs have no variant, such as DU₈, which is always drawn according to a standard and well known shape. Second, as the language of these texts is undoubtedly Sumerian, it would have been unnecessary to use such values: instead of writing such cumbersome transliterations as DUB-a-LU₂-NU-ŠE₃ or EN-a-GAN-a-GI4-a, it was accordingly more convenient to propose directly Mes-lu₂-nu-še₃ and En-he₂-gi₄. (Lecompte and Verderame 2014, p.4)

Another factor which marks the ED I-II corpus as transitional between Uruk III/Jemdet Nasr and ED IIIa is the organization and structure of tablets. In a thorough survey of these "diplomatics", Lecompte, based on the work of the original editor of the ED I-II corpus from Ur, Burrows, summarizes the situation as follows:

As Burrows has already noted, archaic texts from Ur are intermediate in nature. Features common with Late Uruk/Jemdet Nasr tablets include:

- an oblong shape, half rounded sides, larger tablets having a rectangular format.
- a reverse generally left uninscribed.
- the presence of clauses and subscripts freely disposed apart from or into the columns.
- tablets from Ur displaying rows of lines inconsistent with the usual columns; this clearly comes from the horizontal lines subdivided into columns observable in a few of the Jemdet Nasr texts.

On the other hand, the ED I-II texts are forerunners to the ED III tablets in regard to the following aspects: - surface, with a rather flat obverse and convex reverse.

Uruk IV	Uruk III	sign name	meaning	Uruk IV	Uruk III	sign name	meaning
		DUG _a	beer			KAŠ _b	dairy fat mixed with crushed barley?
		KAŠ _a	beer			KAŠ _c	dairy fat mixed with crushed barley?
		KISIM _a	butter fat from sheep's milk			NI _a	dairy fat?
		KISIM _b	butter fat from goat's milk				
		DUG _b	dairy fat			GA _a	milk?
		DUG _c	dairy fat				
		UKKIN _b +NI _a	dairy fat			GARA _{2a}	cream?

Figure 60: Probable archaic designations of liquid and semi-liquid products

Figure 9: Signs for dairy products, after Englund.

- a lack of subdivision of cases similar to the Late Uruk period.
- total expressed as *gu₂-an-še₃*.

Other features are very specific to the ED I-II period, such as the clumsy form of many tablets and the random disposition of columns. (Lecompte 2016: 142).

After discussion among the proposal authors and Robin Leroy, we have determined that it is preferable to establish the end of the Uruk III period as the cutoff for Unicode PC encoding, and to assign the ED I-II signary to Sumero-Akkadian Cuneiform.

3.1.1 PC signs in ED I-II

For characters that occur only in Proto-Cuneiform and ED I-II, we do not propose to encode the character twice; instead, as with the Archaic Cuneiform Numbers, we propose to treat isolated PC signs in ED I-II texts as archaic holdovers. An assignment of Script_Extensions=Pcun Xsux will be proposed for these signs in future documents as they are identified.

Signs which occur only in ED I-II texts will be evaluated for encoding in SAC in the future, as will signs that first occur in ED I-II and recur in later periods.

4 Materials for Encoding Proto-Cuneiform

This section of the proposal gives an overview of the Proto-Cuneiform (PC) corpus and character set. Based on existing scholarship and published resources, it also defines some principles for assessing whether a given character should be considered encodable in Unicode at the present time. Applying these principles to the complete Proto-Cuneiform character set, a proposed encodable repertoire is also provided.

The complete repertoire is called here the Proto-Cuneiform Sign List (PCSL). The encodable subset and the associated documentation are called PC25, for Proto-Cuneiform 2025.

The description and definition of PCSL and PC25 are intertwined, and we do not attempt to treat them in a separate, linear way. Rather, the PC corpus is taken as the foundation and criteria are established for the defining the subcorpus that should be fully represented in PC25. Signs that occur *only* outside of this subcorpus are not considered encodable, but most of the texts that fall outside of this subcorpus are in fact fully covered by PC25 because the unencoded characters affect relatively few texts.

The PC corpus as hosted on the Cuneiform Digital Library Initiative website is the most important resource for encoding PC because it defines current scholarly practice in the field. PCSL and PC25 diverge from this corpus systematically only in the translation of the corpus to the Unicode notations used by Oracc, the Open Richly Annotated Cuneiform Corpus. The PCSL corpus makes only minor adjustments to the CDLI corpus to correct for some minor notational inconsistencies.

Another major resource for encoding PC is the set of published sign lists as well as the collection of signs based on the work of Bob Englund that is available on the CDLI github repository. These lists are described and were systematically treated during the creation of PCSL. The individual alignments of sign lists with PCSL are not given here but are available online. The individual sign lists are, however, integrated in the synoptic tabulation of PCSL given in Appendix C.

The principles as well as an explanatory section on Sequences provide the rationale for selecting characters that occur in the PC25 subcorpus for encoding.

In Appendices A and B are PC25 code charts and a listing of the character repertoire.

4.1 Texts

The PC text Corpus is defined by the CDLI corpus of Proto-Cuneiform texts of Uruk V, Uruk IV, and Uruk III date, as adapted for use by PCSL: we call this CDLI-tc; note that CDLI-tc is used here only in the PCSL version of the corpus. This version has some minor modifications to the transliteration and has been converted to use Unicode transliteration conventions rather than the CDLI ASCII ones.

There are 7224 texts in the corpus of which 105 are attributed to Uruk V; 1907 are attributed to Uruk IV and 5212 to the subsequent Uruk III period.

4.1.1 The Print Corpus

The principal modern publications of the Proto-Cuneiform corpus are:

ATU2=ZATU [GN87]: M.W. Green, Nissen, H. *Zeichenliste der Archaischen Texte aus Uruk*, ATU 2, Berlin 1987.

ATU3=LLATU [EN93]: R.K. Englund und Nissen, H., unter Mitarbeit von Peter Damerow, "Die Lexikalischen Listen der Archaischen Texte aus Uruk" (ATU 3), Berlin 1993.

ATU5 [Eng94]: R.K. Englund, *Archaic Administrative Texts from Uruk: The Early Campaigns*, ATU 5, Berlin 1994.

ATU6 [EN94]: R.K. Englund and Nissen, H., >*Archaische Verwaltungstexte aus Uruk: Vorderasiatische Museum II*, ATU 6, Berlin 2005.

ATU7 [EN01]: R.K. Englund and Nissen, H., *Archaische Verwaltungstexte aus Uruk: Die Heidelberger Sammlung*, ATU 7, Berlin 2001.

MSVO1 [EG91]: R.K. Englund and Grégoire, J.-P., *The Proto-Cuneiform Texts from Jemdet Nasr*, MSVO 1, Berlin 1991.

MSVO3 [Dam]: R.K. Englund, *The Proto-Cuneiform Texts from the Erlenmeyer Collection*, MSVO 3, Berlin forthcoming.

MSVO4 [EG91]: R.K. Englund, *Proto-Cuneiform Texts from Diverse Collections*, MSVO 4, Berlin 1996.

CUSAS01 [Mon07]: S.F. Monaco, *The Cornell University Archaic Tablets* (CUSAS 1), Bethesda, MD, 2007.

CUSAS21 [Mon14]: S.F. Monaco, *Archaic Bullae and Tablets in the Cornell University Collections* (CUSAS 21), Bethesda, MD, 2014.

CUSAS31 [Mon16]: S.F. Monaco, *Archaic Cuneiform Tablets from Private Collections* (CUSAS 31), Bethesda, MD, 2016.

4.1.2 The Digital Corpus

The digital corpus includes the contents of all of the above major publications:

- Uruk lexical tablets from ATU3 (Uruk IV and Uruk III)
- Uruk administrative tablets from ATU5, ATU6, ATU7 (Uruk V, Uruk IV and Uruk III); these supersede ATU1
- Jemdet Nasr (Uruk III) tablets from MSVO1; these supersede Langdon, PI
- Tablets from various locations from MSVO4; this includes non-Uruk tablets which were included in ATU1

- Tablets in private collections from various locations in CUSAS1, CUSAS21, and CUSAS31; these post-date the ATU and MSVO volumes
- Tablets from the "Erlenmeyer Collection"; these were to be published in MSVO3 which has not yet appeared; many of them have been edited by Englund and others in various publications, however

4.1.3 PCSL Corpus

PCSL's version of CDLI-tc has the following composition divided by provenience, period, and published versus unpublished status:

	V/pub	V/unp	V/all	IV/pub	IV/unp	IV/all	III/pub	III/unp	III/all
Uruk	69	0	69	1373	486	1859	2764	1084	3848
JN	2	0	2	0	0	0	238	31	269
Umma	0	0	0	0	0	0	93	305	398
Uqair	0	0	0	0	0	0	42	0	42
Misc	23	11	34	36	12	48	587	68	655
total	94	11	105	1409	498	1907	3724	1488	5212

4.1.4 PC25 Corpus

About 1/3 of the PCSL corpus is available only in transliteration or photograph and has not yet been subjected to the rigorous assessment of a scholarly edition. These texts are removed to create a subcorpus of well-studied text to serve as the basis for the initial (and largest) phase of encoding of Proto-Cuneiform.

The subsetting is based on the CDLI catalogue entries as of February 2025. It is possible that features of the CDLI data may mean that a few texts that should have been omitted are included in the PC25 corpus and vice versa. The impact of this on the final repertoire is negligible, however, because of the cross-checking between corpus and published sign lists.

PC25's subset of the PCSL corpus has the following composition divided by provenience, period, and published/unpublished status:

	V/pub	V/unp	V/all	IV/pub	IV/unp	IV/all	III/pub	III/unp	III/all
Uruk	69	0	69	1350	0	1350	2720	0	2720
JN	2	0	2	0	0	0	238	0	238
Umma	0	0	0	0	0	0	93	0	93
Uqair	0	0	0	0	0	0	42	0	42
Misc	23	0	23	36	0	36	587	1	588
total	94	11	94	1386	498	1386	3680	1488	3681

4.2 Signs

4.2.1 Grapheme Distribution

A general impression of the amount of graphemic data in the various subcorpora is given in the table below. In each case, the numbers are the count of distinct signs and the total number of instances of signs, with numerical signs and ideograms being given in separate rows.

4.2.2 PCSL Corpus Grapheme Distribution

	V/pub	V/unp	V/all	IV/pub	IV/unp	IV/all	III/pub	III/unp	III/all
Uruk/num	23/152	0/0	23/152	163/5390	91/1536	180/6926	214/15031	106/2481	223/17512
Uruk/idg	19/24	0/0	19/24	874/6761	422/1646	981/8407	1347/25296	622/6210	1422/31506
JN/num	3/3	0/0	3/3	0/0	0/0	0/0	138/2530	0/0	138/2530
JN/idg	0/0	0/0	0/0	0/0	0/0	0/0	451/4243	0/0	451/4243
Umma/num	0/0	0/0	0/0	0/0	0/0	0/0	121/1595	137/3855	167/5450
Umma/idg	0/0	0/0	0/0	0/0	0/0	0/0	387/2305	575/7343	683/9648
Uqair/num	0/0	0/0	0/0	0/0	0/0	0/0	50/444	0/0	50/444
Uqair/idg	0/0	0/0	0/0	0/0	0/0	0/0	241/922	0/0	241/922
Misc/num	23/45	18/30	27/75	50/155	2/7	50/162	169/5229	56/749	169/5978
Misc/idg	1/1	1/2	2/3	54/88	21/26	68/114	689/8074	330/1470	776/9544
total	33/200	18/30	34/230	169/5545	91/1543	184/7088	262/24829	163/7085	275/31914
total	19/25	1/2	20/27	883/6849	426/1672	991/8521	1589/40840	915/15023	1775/55863

4.3 Lists

4.3.1 Historic Lists

The earliest list of Proto-Cuneiform signs is Stephen Langdon's PI [Lan28], a list accompanying the Jemdet Nasr tablets published in 1928. Less than ten years later, in 1936, Adam Falkenstein published the first list of signs from the archaic Uruk texts in ATU [Fal36]. Falkenstein referenced Langdon's list using the abbreviation Pl.

4.3.2 The Intended Standard List

The Berlin Uruk projected intended ATU2 [GN87], more commonly known as ZATU, to be the new standard list. Published in 1987, the work lists many different sign forms for most signs, dividing them into Uruk IV and Uruk III, and alphabetizing the entries by the mnemonic sign names used within the project. Entries in ZATU make some use of a division into alloforms labeled, e.g., a and b as in the case of AB, but use of these divisions is sporadic and the examples are subsumed under their head signs.

However, by the time the list had been prepared, the project team had already begun to doubt that the groupings of variant sign-forms were an adequate reflection of likely semantic distinctions reflected by the sign-forms, as mentioned by Bob Englund in that volume ([GN87, 327f.]).

4.3.3 Revisionist Lists

Between 1991 and 1996, In a series of publications appearing subsequent to ZATU, Englund provided sign lists specific to the sub-corpora edited in the volumes which essentially replace all previous lists.

The four lists and their coverage are:

LLATU [EN93]: Lexical lists from Uruk, but with some extraneous signs or forms from ED duplicates, replacing ZATU's coverage of lexical lists

ATU5 [Eng94]: Administrative texts from Uruk, replacing ATU1 signlist and ZATU

MSVO1 [EG91]: Administratative texts from Jemdet Nasr, replacing PI and ZATU

MSVO4 [Eng96]: Administrative texs from various proveniences, replacing ZATU

The sign lists are based on exhaustive scholarly reassessments of individual portions of the PC corpus and make extensive use of the contrastive notations with subscript letters+numbers, e.g., ABa and ABB. At the same time, these lists gather non-contrastive sign variants under their respective parent signs and this is taken into account in PC25.

Englund's subsequent corpus-edition volumes ATU6 [EN94] and ATU7 [EN01], contain grapheme indices without images of the individual signs.

4.3.4 The Digital List

CDLI-gh is not 100% complete with respect to the PC corpus; includes some signs from ED duplicates of PC lexical texts; and includes a handful of signs which are either duplicates or are apparently place-holders from ongoing work on the Schøyen Umma texts that was never completed.

4.3.5 The Oracc List

The Oracc project [Tin24] provides a complete, corpus-based sign list comprising the CDLI texts from the Uruk V, Uruk IV, and Uruk III periods. PCSL was created in support of assessing previous proposals and eventually preparing the current proposal. It is based on CDLI-gh, and augments that collection with additional signs and glyphs from the published sign lists and the text corpus. PCSL gives distribution data for signs in the corpus, an overview of which signs occur in the other sign lists, and a proposed repertoire for encoding in Unicode. A succinct presentation of PCSL is included as Appendix A of the proposal.

4.3.6 Sign Lists and Prior PC Proposals

Prior PC proposals were centred on CDLI-gh, treating it as the definitive assemblage of PC signs at the same time as recognizing several important considerations:

The published sign list of Uruk Lexical Texts from ATU3 (LLATU) was also utilized as a partial control on CDLI-gh. However, three additional lists in a similar format to the LLATU lists were not used in prior proposals, leading to an inadequate understanding of previously published scholarship on the PC repertoire. Together with LLATU these three previously unutilized lists provide a comprehensive new presentation of the material covered in ZATU and need to be included as part of the foundational data of the PC proposal.

The four modern sign lists are an invaluable complement to CDLI-gh because they represent the carefully considered subset of signs which were vetted for publication whereas CDLI-gh is a working collection of signs. These sign lists make it clear that the unmarked variants in CDLI-gh are non-contrastive variants as opposed to the contrastive variants marked with subscript letter+number sequences.

4.3.7 Sign List Cautions

Sign lists have certain characteristics that can make them unsuitable for using to define a character repertoire:

- Sign lists offer one perspective on a repertoire; they are not necessarily exhaustive catalogues of every sign in a corpus.
- Sign lists often have entries that are convenient for descriptive purposes, or for users, but which do not constitute a 1:1 correspondence with the Unicode approach to characters.

- Entries may contain several signs under one heading—this is done in CDLI-gh when the several members given are considered non-contrastive.
 - Entries may combine sequences of signs if the sequence is common or interesting.

Sometimes these sequences correspond to later cuneiform sign combinations which have known semantics in Sumero-Akkadian Cuneiform (SAC) despite the fact that there is no evidence that the PC sign shares those semantics or is even necessarily an antecedant of the SAC sign in anything but form and structure.

Signs are also sometimes grouped into sequences when there is a suspected semantic basis for the grouping, even though the grouping might be considered phrasal rather than being a concatenation of

components with specific semantics: examples include the combinations of N57 signs with ideograms where the notation may indicate the age of an animal or some other multiplicative relationship of the number and a commodity. Thus, |1(N57).AB₂| may mean "a one-year-old cow" and could equally well be notated as 1(N57) AB₂—in fact, the corpus instances of such sequences often occur in both forms.

- Sign forms are abstractions; two-dimensional sketches of a three-dimensional writing system which tend to offer typical forms. This means that sign lists do not normally capture the full range of glyph-variation for any individual character; simply because a sign does not have unmarked variants in CDLI-gh doesn't mean such variants don't exist.
- Although most of character readings use sign names that recall SAC signs, Englund is clear that "until the language affinity of the archaic texts is established, these readings remain entirely conventional and often serve only mnemonic purposes, whereas the meaning of many signs is now quite clear" (ATU5 p.19).
- Importantly, Englund is explicit in the introduction that the reference forms of the signs ("graphemes" in Englund's terminology) are only exemplary forms:

After each sign name a grapheme is presented which represents the general form of the sign on the tablets cited. This graphic must be understood as merely an orientation in understanding the form a particular sign could take, since in particular the texts from the earliest stage of writing exhibit, to varying degrees, a tolerance of graphemic variation. (ATU5 p.107)

4.4 Coverage

Although the strategically selected subset of the Uruk IV/III corpus is only two-thirds of the entire corpus in terms of manuscripts, the graphemic coverage provided by the combination of ACN and PC25 is very high.

Of the 7224 texts in the entire PCSL corpus, 157 contain unencoded signs, i.e., 97.62% of texts have no unencoded graphemes.

The total number of instances of graphemes that are included in the encoded repertoire is substantial: of 98055 instances of 2040 graphemes, only 240 instances of 171 graphemes are not encoded. 99.76% of instances of graphemes in PCSL are represented in the encodings either directly or as sequences.

5 Principles for Encoding

Each character that occurs in the PC25 subset of the PCSL corpus has been assessed according to the following principles in order to determine its encodability. Encoded signs are given in Appendix A and B; the condensed version of the Proto-Cuneiform Sign List, PCSL, is given Appendix C and contains essential information relating to the encodability of each sign. Appendix D lists all of the manuscripts that have unencoded signs and the signs which they are missing. Appendices E to K give tables of signs excluded from PC25 under one of the reasons for which they were excluded.

In addition to the comments above on the corpus, signary, and sign lists, some additional issues influence the Principles.

5.1 (Non-)Contrastive Usage

Previous proposals treated the whole of CDLI-gh as a flat sample of sign forms and assigned codepoints to each form. All of the resources, however, are highly consistent in listing and transliterating some variant sign forms as non-contrastive and this practice is followed in PC25: the grouping of sign forms under a sign sign name and the practice of transliterating variant sign forms with a single transliteration are both indicators of non-contrastive glyphs.

The scholarly assessment of when sign forms are non-contrastive is based on several kinds of evidence. There is often a historical dimension where Uruk IV (earlier) and Uruk III (later) forms are presumptively of the same sign: Uruk IV forms tend to have more curves and more complex shapes. For many signs, this analysis is assisted by duplicate manuscripts of word lists ("lexical texts") that give the same text with variant sign forms. Elsewhere,

commodity lists of phrasal constructs can give contextual information on the likelihood that two distinct forms actually belong to the same sign.

Transliteration practices in the CDLI corpus closely mirror the contrastive/non-contrastive distinction. For example, the SAG sign has several different glyph forms but is always transliterated SAG. Conversely, KUŠU₂ is a base name that has six different allographs, KUŠU₂-a to KUŠU₂-f: each of these allographs has instances in the corpus.

5.1.1 (Non-)Contrastive Usage in Complex and Compound Signs

CDLI-tc and CDLI-gh do not always differentiate compound constituents to the same extent as the independent versions of the constituents. For example, KAR₂ is separated as KAR₂-a and KAR₂-b in CDLI-tc and CDLI-gh, but in the DARA₃×KAR₂ compounds the only notations that occur are |DARA₃-c×KAR₂| and |DARA₃-d×KAR₂|. The encoding by default follows the CDLI notations in such cases.

5.2 Sequences

Sequences are a class of compound signs which exhibit a low degree of integration with each other. In later cuneiform they are written as a linear sequence in which the constituents and order may vary. In PC, they are written in linear form or as a cluster because PC accounts are laid out in various combinations of cases (or boxes). The identification of a group of signs as a discrete sequence can vary from one text editor to another, and from one sign list to another. As a result, sequences are a variable and open-ended category which are not suited to encoding as characters. If a sequence such as |MUŠEN.ŠE| were encoded as a character there would be two reasonable representations of the data: the character encoding, and the encoding as the sequence of constituents. The handling of sequences in PCSL—including a list of exceptions which are actually encoded—is described in a separate section later in this document.

5.3 Principles

The following principles were applied in the development of the PC25 proposal's repertoire:

1. Treat the PC corpus as the primary source of truth about the signiary and usage. Use the corpus as a control on the lists; use the published lists and corpus as a control on CDLI-gh.
2. Align names with CDLI-tc/CDLI-gh as much as possible to ensure that the encoding is closely aligned with existing scholarly practice. Make exceptions where required to correct names or to improve consistency of the naming scheme; if in doubt, retain the CDLI names.
3. Take contrastive usage into account to the extent supported by contemporary scholarship and do not encode non-contrastive sign variants under their own codepoints. The CDLI-tc corpus is the primary guide to non-contrastive usage: different sign forms which are transliterated the same are accepted as non-contrastive.
4. Accept that allograph notations in the corpus are contrastive
5. Do not introduce finer-grained allograph notations than CDLI-tc/CDLI-gh is using. The decisions made in the corpus about whether sign variants are contrastive or not are made not only on the basis of form but also context of various kinds; specialists in the corpus should decide if further division is needed in the future
6. Do not require a minimum number of occurrences for encoding: the corpus consists of mostly fragmentary manuscripts over 5000 years old—if a sign clearly exists and meets the other principles for encoding, it should be encoded
7. Do not assume that every sign list entry should be encoded as a character
8. Do not generally encode sequences; this includes sequences which are named in CDLI-gh and CDLI-tc as single characters ("opaque sequences") but where the naming is an interpretive mnemonic for a sign group such as ŠAB for |PA.IB| and the like

9. Do make exceptions to the sequences rule for items which:
 - are not historically sequences but are later decomposed, e.g., some city names
 - would require the encoding of separate constituent characters for a single case
 - form part of a group which contains a mixture of members where some members might otherwise be encoded as characters and others as sequence
10. Consider distribution of components when encoding complex (X×Y) versus compound (X.Y or Y.X); sometimes, especially for rare signs, it is not clear whether the juxtaposition of components is part of the sign structure or the distribution of individual elements on the manuscript. In such cases it is preferable to treat the signs as a sequence rather than a complex.
11. Do not separately encode signs which occur only in complex signs
12. Do not encode uncertain signs, especially those from unedited texts such as the Schøyen Umma material
13. Do not encode broken signs; include them in the PUA instead.

5.4 Advantages of the Revised Approach

There are several advantages to the revised approach to PC encoding:

- the encoding is better aligned with transliteration practice
- additional glyph variants can be added without impacting the encoding; encoding every glyph variant would open PC to arbitrary open-ended encoding of slight differences with little basis for distinguishing when a variant should be encoded and when not: adopting the position that scholarly annotation of glyph variance as contrastive is required for encoding would set reasonable boundaries on what can be encoded and what should not be
- new sequences can be added without impacting the encoding; this is especially important for the productive types involving N57 and time notations involving U₄
- variant forms can be managed with font features rather than needing encoding
- the approach is generally more robust in regard to future discoveries as a result of the above points; where absolutely necessary unifications/disunifications could be considered if they are clearly demonstrable improvements to the utility of the encoding

5.5 Reference Glyphs

The introduction of 1:several relationships where an encoded character has multiple variants entails the need for a principled selection of reference glyphs.

In order to have some level of consistency it would be preferable to select either Uruk IV glyphs or Uruk III glyphs as the primary choice of reference glyphs. Because the corpus is predominantly Uruk III in date it makes sense to use Uruk III reference glyphs as far as possible.

PC25 reference glyphs are aligned where possible with Uruk III sign forms occurring in published texts originating from Uruk or Jemdet Nasr. The selection of the reference glyph is not necessarily an indication that the other sign forms in EASL do not occur in the same period or place. It means simply that the reference glyph has been confirmed to occur, where possible, in Uruk III Uruk/Jemdet Nasr.

For sequences with multiple forms, the reference form is always the simplest/closest to the sequence description, as long as that form occurs in the corpus. This means that by default the sign looks the way it is described, and ligatures, reorderings, or non-linear dispositions are always accessed by CVNN.

Note that the selection of a reference glyph does not imply that the form is normative—the corpus is restricted and sign form variation is considerable which means that even the concept of a normative form is inapplicable to many signs.

5.6 More on Sequences

5.6.1 Sequences are not encoded

Following the above principles, signs which are composed of sequences of multiple adjacent signs should not be encoded. The surface form of sequences can be variable in the ordering, selection, and disposition of components, all of which are treated as glyph variations and not as discrete characters.

In Proto-Cuneiform writing sequences are not necessarily linear: because the manuscripts are organized in cases (or boxes), signs are routinely juxtaposed in clusters in which the components can be written above, below, or near each other as well as being beside each other in a line.

5.6.2 Opaque sequences are not encoded

In standard transliteration practice for Proto-Cuneiform some signs are given simple names which do not reflect their status as a sequence, e.g., LUGAL is actually a sequence of GAL₂ and LU₂, or LU₂ and GAL. We call these sequences "opaque sequences" and, like regular sequences, they are not encoded.

5.6.3 Reasons for Exceptions

Although sequences are not generally encoded, there are several reasons for making exceptions to this policy:

Reanalysis Proto-Cuneiform signs that are originally integral units may be reanalyzed into separate constituents. Where this is demonstrably the case, the original character is encoded and the reanalyzed sequence is considered a glyph variant.

Container Equivalency Some signs are allowed as exceptions because the juxtaposition of elements is the equivalent of a container (TIMES) relationship.

Unencoded Constituents Some sequences contain constituents that are otherwise unattested; in this case the choice is either to encode a sign which may not be attested independently, or to encode the sequence. In general the option adopted is to encode the sequence as a character.

Analogy Some sequences are part of a group and would naturally be considered by users of the encoding to be analogous to each other. Where one or more members of a group fulfils either of the previous conditions for encoding as a character, PC25 encodes the entire group as individual characters by analogy to avoid a possibly confusing mixture of encoded and unencoded group members.

5.6.4 List of Exceptions

Reanalysis Two city-name signs, ADAB and ARARMA~a, have earlier forms which are distinct from their reanalysis to include an initial U₄ component. Other city names may also have earlier integral forms but without further evidence they are not proposed for encoding as characters at this point.

Container Equivalency The signs ASAR and AZ are the equivalent of containers.

Unencoded Constituents The following exception signs contain unencoded constituents: ME₃ (EŠDA-tenu), ŠAGINA (modified UŠ form with additional strokes, unclear with this is an UŠ or not), ZUBI~a (NA₂-nutillu).

Analogy: BAPPIR Group The group of signs with the base BAPPIR has one member which is a container (BAPPIR~e) and the entire group is encoded by analogy.

Analogy: Sheep Group The groups of signs with the base SILANITA, UDUNITA and UTUA represent various types (ages, genders) of sheep and since some of them have unencoded constituents the members of all groups are encoded as characters.

Analogy: UTUL Group The UTUL group contains one member which includes an uncoded superposed reduplicated component (UTUL~c), so the entire group is encoded as characters.

6 Proposal Documents

The reference data for the proposal is in 'UnicodeData.txt', attached to this PDF.
Code charts and a character list are provided in the following pages for informational purposes only.

6.1 Code Charts

	1269	126A	126B	126C	126D	126E	126F
0	॥	॥	॥	॥	॥	॥	॥
	12690	126A0	126B0	126C0	126D0	126E0	126F0
1	॥	॥	॥	॥	॥	॥	॥
	12691	126A1	126B1	126C1	126D1	126E1	126F1
2	॥	॥	॥	॥	॥	॥	॥
	12692	126A2	126B2	126C2	126D2	126E2	126F2
3	॥	॥	॥	॥	॥	॥	॥
	12693	126A3	126B3	126C3	126D3	126E3	126F3
4	॥	॥	॥	॥	॥	॥	॥
	12694	126A4	126B4	126C4	126D4	126E4	126F4
5	॥	॥	॥	॥	॥	॥	॥
	12695	126A5	126B5	126C5	126D5	126E5	126F5
6	॥	॥	॥	॥	॥	॥	॥
	12696	126A6	126B6	126C6	126D6	126E6	126F6
7	॥	॥	॥	॥	॥	॥	॥
	12697	126A7	126B7	126C7	126D7	126E7	126F7
8	॥	॥	॥	॥	॥	॥	॥
	12698	126A8	126B8	126C8	126D8	126E8	126F8
9	॥	॥	॥	॥	॥	॥	॥
	12699	126A9	126B9	126C9	126D9	126E9	126F9
A	॥	॥	॥	॥	॥	॥	॥
	1269A	126AA	126BA	126CA	126DA	126EA	126FA
B	॥	॥	॥	॥	॥	॥	॥
	1269B	126AB	126BB	126CB	126DB	126EB	126FB
C	॥	॥	॥	॥	॥	॥	॥
	1269C	126AC	126BC	126CC	126DC	126EC	126FC
D	॥	॥	॥	॥	॥	॥	॥
	1269D	126AD	126BD	126CD	126DD	126ED	126FD
E	॥	॥	॥	॥	॥	॥	॥
	1269E	126AE	126BE	126CE	126DE	126EE	126FE
F	॥	॥	॥	॥	॥	॥	॥
	1269F	126AF	126BF	126CF	126DF	126EF	126FF

	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	127A	127B	127C	127D	127E	127F
0	12700	12710	12720	12730	12740	12750	12760	12770	12780	12790	127A0	127B0	127C0	127D0	127E0	127F0
1	12701	12711	12721	12731	12741	12751	12761	12771	12781	12791	127A1	127B1	127C1	127D1	127E1	127F1
2	12702	12712	12722	12732	12742	12752	12762	12772	12782	12792	127A2	127B2	127C2	127D2	127E2	127F2
3	12703	12713	12723	12733	12743	12753	12763	12773	12783	12793	127A3	127B3	127C3	127D3	127E3	127F3
4	12704	12714	12724	12734	12744	12754	12764	12774	12784	12794	127A4	127B4	127C4	127D4	127E4	127F4
5	12705	12715	12725	12735	12745	12755	12765	12775	12785	12795	127A5	127B5	127C5	127D5	127E5	127F5
6	12706	12716	12726	12736	12746	12756	12766	12776	12786	12796	127A6	127B6	127C6	127D6	127E6	127F6
7	12707	12717	12727	12737	12747	12757	12767	12777	12787	12797	127A7	127B7	127C7	127D7	127E7	127F7
8	12708	12718	12728	12738	12748	12758	12768	12778	12788	12798	127A8	127B8	127C8	127D8	127E8	127F8
9	12709	12719	12729	12739	12749	12759	12769	12779	12789	12799	127A9	127B9	127C9	127D9	127E9	127F9
A	1270A	1271A	1272A	1273A	1274A	1275A	1276A	1277A	1278A	1279A	127AA	127BA	127CA	127DA	127EA	127FA
B	1270B	1271B	1272B	1273B	1274B	1275B	1276B	1277B	1278B	1279B	127AB	127BB	127CB	127DB	127EB	127FB
C	1270C	1271C	1272C	1273C	1274C	1275C	1276C	1277C	1278C	1279C	127AC	127BC	127CC	127DC	127EC	127FC
D	1270D	1271D	1272D	1273D	1274D	1275D	1276D	1277D	1278D	1279D	127AD	127BD	127CD	127DD	127ED	127FD
E	1270E	1271E	1272E	1273E	1274E	1275E	1276E	1277E	1278E	1279E	127AE	127BE	127CE	127DE	127EE	127FE
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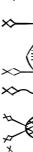
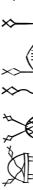
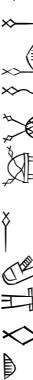
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	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	129A	129B	129C	129D	129E	129F
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	12B0	12B1	12B2	12B3	12B4	12B5	12B6	12B7	12B8	12B9	12BA	12BB	12BC	12BD	12BE	12BF
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6.2 Character List

12690		PROTO-CUNEIFORM SIGN A	126C0		PROTO-CUNEIFORM SIGN ARARMA2-A
12691		PROTO-CUNEIFORM SIGN A TIMES EN-A	126C1		PROTO-CUNEIFORM SIGN ASAR
12692		PROTO-CUNEIFORM SIGN A TIMES SHUBUR	126C2		PROTO-CUNEIFORM SIGN AZ
12693		PROTO-CUNEIFORM SIGN A TIMES ZATU672	126C3		PROTO-CUNEIFORM SIGN AZU
12694		PROTO-CUNEIFORM SIGN A TIMES ONE N14	126C4		PROTO-CUNEIFORM SIGN BA
12695		PROTO-CUNEIFORM SIGN A2	126C5		PROTO-CUNEIFORM SIGN BAD
12696		PROTO-CUNEIFORM SIGN AB-A	126C6		PROTO-CUNEIFORM SIGN BAD OVER BAD
12697		PROTO-CUNEIFORM SIGN AB-A TIMES A TENU	126C7		PROTO-CUNEIFORM SIGN BAD3-A
12698		PROTO-CUNEIFORM SIGN AB-A TIMES ASH2	126C8		PROTO-CUNEIFORM SIGN BAD3-B1
12699		PROTO-CUNEIFORM SIGN AB-A TIMES SHE-A OVER SHE-A	126C9		PROTO-CUNEIFORM SIGN BAD3-B2
1269A		PROTO-CUNEIFORM SIGN AB-A TIMES ZATU659	126CA		PROTO-CUNEIFORM SIGN BAHAR2-A
1269B		PROTO-CUNEIFORM SIGN AB-A TIMES ONE N04	126CB		PROTO-CUNEIFORM SIGN BAHAR2-B
1269C		PROTO-CUNEIFORM SIGN AB-A GUNU	126CC		PROTO-CUNEIFORM SIGN BAHAR2-C
1269D		PROTO-CUNEIFORM SIGN AB-B	126CD		PROTO-CUNEIFORM SIGN BALA-A
1269E		PROTO-CUNEIFORM SIGN AB2	126CE		PROTO-CUNEIFORM SIGN BALA-B
1269F		PROTO-CUNEIFORM SIGN AB2 TIMES TWO N14	126CF		PROTO-CUNEIFORM SIGN BALAG
126A0		PROTO-CUNEIFORM SIGN ABZU	126D0		PROTO-CUNEIFORM SIGN BAN-A
126A1		PROTO-CUNEIFORM SIGN AD-A	126D1		PROTO-CUNEIFORM SIGN BAN-B
126A2		PROTO-CUNEIFORM SIGN AD-B	126D2		PROTO-CUNEIFORM SIGN BANSHUR-A
126A3		PROTO-CUNEIFORM SIGN AD-C	126D3		PROTO-CUNEIFORM SIGN BANSHUR-A TENU
126A4		PROTO-CUNEIFORM SIGN ADAB	126D4		PROTO-CUNEIFORM SIGN BANSHUR-B1
126A5		PROTO-CUNEIFORM SIGN ADDA	126D5		PROTO-CUNEIFORM SIGN BANSHUR-B2
126A6		PROTO-CUNEIFORM SIGN AGAR2	126D6		PROTO-CUNEIFORM SIGN BANSHUR-C
126A7		PROTO-CUNEIFORM SIGN AK-A	126D7		PROTO-CUNEIFORM SIGN BAPPIR-A
126A8		PROTO-CUNEIFORM SIGN AK-B	126D8		PROTO-CUNEIFORM SIGN BAPPIR-B
126A9		PROTO-CUNEIFORM SIGN AL	126D9		PROTO-CUNEIFORM SIGN BAPPIR-C
126AA		PROTO-CUNEIFORM SIGN ALAN-A	126DA		PROTO-CUNEIFORM SIGN BAPPIR-D
126AB		PROTO-CUNEIFORM SIGN ALAN-B	126DB		PROTO-CUNEIFORM SIGN BAPPIR-E
126AC		PROTO-CUNEIFORM SIGN ALAN-C	126DC		PROTO-CUNEIFORM SIGN BAPPIR-F
126AD		PROTO-CUNEIFORM SIGN ALAN-E	126DD		PROTO-CUNEIFORM SIGN BAR
126AE		PROTO-CUNEIFORM SIGN ALIM	126DE		PROTO-CUNEIFORM SIGN BARA2-A
126AF		PROTO-CUNEIFORM SIGN AM-A	126DF		PROTO-CUNEIFORM SIGN BARA2-B
126B0		PROTO-CUNEIFORM SIGN AM-B	126E0		PROTO-CUNEIFORM SIGN BARA3
126B1		PROTO-CUNEIFORM SIGN AMA-A	126E1		PROTO-CUNEIFORM SIGN BIR-A
126B2		PROTO-CUNEIFORM SIGN AMA-A TIMES E2-A	126E2		PROTO-CUNEIFORM SIGN BIR-B
126B3		PROTO-CUNEIFORM SIGN AMA-B	126E3		PROTO-CUNEIFORM SIGN BIR-C
126B4		PROTO-CUNEIFORM SIGN AMAR	126E4		PROTO-CUNEIFORM SIGN BIR3-A
126B5		PROTO-CUNEIFORM SIGN AMAR TIMES TAR-C	126E5		PROTO-CUNEIFORM SIGN BIR3-B
126B6		PROTO-CUNEIFORM SIGN AMAR OVER AMAR	126E6		PROTO-CUNEIFORM SIGN BIR3-C
126B7		PROTO-CUNEIFORM SIGN AN	126E7		PROTO-CUNEIFORM SIGN BU-A
126B8		PROTO-CUNEIFORM SIGN ANSHE-A	126E8		PROTO-CUNEIFORM SIGN BU-A JOINING DU6-A
126B9		PROTO-CUNEIFORM SIGN ANSHE-B	126E9		PROTO-CUNEIFORM SIGN BU-A JOINING KI
126BA		PROTO-CUNEIFORM SIGN ANSHE-C	126EA		PROTO-CUNEIFORM SIGN BU-A TIMES A
126BB		PROTO-CUNEIFORM SIGN ANSHE-E	126EB		PROTO-CUNEIFORM SIGN BU-A OVER BU-A NA2-A
126BC		PROTO-CUNEIFORM SIGN ANSHE-F	126EC		PROTO-CUNEIFORM SIGN NA2-A NUTILLU
126BD		PROTO-CUNEIFORM SIGN APIN-A	126ED		PROTO-CUNEIFORM SIGN BU-B
126BE		PROTO-CUNEIFORM SIGN APIN-B	126EE		PROTO-CUNEIFORM SIGN BU3
126BF		PROTO-CUNEIFORM SIGN APIN-C	126EF		PROTO-CUNEIFORM SIGN BULUG
			126F0		PROTO-CUNEIFORM SIGN BULUG3
			126F1		PROTO-CUNEIFORM SIGN BUR-A

126F2		PROTO-CUNEIFORM SIGN BUR-B	12722		PROTO-CUNEIFORM SIGN DU6-A TIMES ONE N58
126F3		PROTO-CUNEIFORM SIGN BUR-C	12723		PROTO-CUNEIFORM SIGN DU6-B
126F4		PROTO-CUNEIFORM SIGN BUR-D	12724		PROTO-CUNEIFORM SIGN DU6-C
126F5		PROTO-CUNEIFORM SIGN BUR2	12725		PROTO-CUNEIFORM SIGN DU7
126F6		PROTO-CUNEIFORM SIGN DA-A	12726		PROTO-CUNEIFORM SIGN DU8-A
126F7		PROTO-CUNEIFORM SIGN DA-B	12727		PROTO-CUNEIFORM SIGN DU8-B
126F8		PROTO-CUNEIFORM SIGN DA-C	12728		PROTO-CUNEIFORM SIGN DU8-C
126F9		PROTO-CUNEIFORM SIGN DA-D	12729		PROTO-CUNEIFORM SIGN DU8-C TIMES AB2
126FA		PROTO-CUNEIFORM SIGN DAH	1272A		PROTO-CUNEIFORM SIGN DU8-C TIMES AMAR
126FB		PROTO-CUNEIFORM SIGN DAM	1272B		PROTO-CUNEIFORM SIGN DU8-C TIMES HI
126FC		PROTO-CUNEIFORM SIGN DANNA	1272C		PROTO-CUNEIFORM SIGN DU8-C TIMES UDU-A
126FD		PROTO-CUNEIFORM SIGN DAR-A	1272D		PROTO-CUNEIFORM SIGN DU8-C GUNU
126FE		PROTO-CUNEIFORM SIGN DAR-A TIMES A	1272E		PROTO-CUNEIFORM SIGN DUB-A
126FF		PROTO-CUNEIFORM SIGN DAR-B	1272F		PROTO-CUNEIFORM SIGN DUB-B
12700		PROTO-CUNEIFORM SIGN DAR-C	12730		PROTO-CUNEIFORM SIGN DUB-C
12701		PROTO-CUNEIFORM SIGN DARA3-A	12731		PROTO-CUNEIFORM SIGN DUB-D
12702		PROTO-CUNEIFORM SIGN DARA3-B	12732		PROTO-CUNEIFORM SIGN DUB-E
12703		PROTO-CUNEIFORM SIGN DARA3-C	12733		PROTO-CUNEIFORM SIGN DUB-F
12704		PROTO-CUNEIFORM SIGN DARA3-C TIMES KAR2	12734		PROTO-CUNEIFORM SIGN DUB-H
12705		PROTO-CUNEIFORM SIGN DARA3-C TIMES KAR2 PLUS SHE-A	12735		PROTO-CUNEIFORM SIGN DUB NUTILLU-A TIMES ONE N58 FORM A
12706		PROTO-CUNEIFORM SIGN DARA3-D	12736		PROTO-CUNEIFORM SIGN DUB NUTILLU-A TIMES ONE N58 FORM B
12707		PROTO-CUNEIFORM SIGN DARA3-D TIMES KAR2-B PLUS SHE-A	12737		PROTO-CUNEIFORM SIGN DUB NUTILLU-B TIMES ONE N58-A
12708		PROTO-CUNEIFORM SIGN DARA3-D TIMES KAR2-B PLUS SHE-A	12738		PROTO-CUNEIFORM SIGN DUB2
12709		PROTO-CUNEIFORM SIGN DARA4-A1	12739		PROTO-CUNEIFORM SIGN DUG-A
1270A		PROTO-CUNEIFORM SIGN DARA4-A2	1273A		PROTO-CUNEIFORM SIGN DUG-A TIMES KU6-A
1270B		PROTO-CUNEIFORM SIGN DARA4-A3	1273B		PROTO-CUNEIFORM SIGN DUG-A TIMES NAGA-A
1270C		PROTO-CUNEIFORM SIGN DARA4-B	1273C		PROTO-CUNEIFORM SIGN DUG-A TIMES U2-A
1270D		PROTO-CUNEIFORM SIGN DARA4-C	1273D		PROTO-CUNEIFORM SIGN DUG-A TIMES U2-B
1270E		PROTO-CUNEIFORM SIGN DARA4-C1	1273E		PROTO-CUNEIFORM SIGN DUG-A TIMES ONE N57
1270F		PROTO-CUNEIFORM SIGN DARA4-C2	1273F		PROTO-CUNEIFORM SIGN DUG-B
12710		PROTO-CUNEIFORM SIGN DARA4-C3	12740		PROTO-CUNEIFORM SIGN DUG-B TIMES AB2
12711		PROTO-CUNEIFORM SIGN DARA4-C4	12741		PROTO-CUNEIFORM SIGN DUG-B TIMES ANSHE-B
12712		PROTO-CUNEIFORM SIGN DARA4-C5	12742		PROTO-CUNEIFORM SIGN DUG-B TIMES ANSHE-D
12713		PROTO-CUNEIFORM SIGN DARA4-D	12743		PROTO-CUNEIFORM SIGN DUG-B TIMES BALA-A
12714		PROTO-CUNEIFORM SIGN DI	12744		PROTO-CUNEIFORM SIGN DUG-B TIMES BIR3-C
12715		PROTO-CUNEIFORM SIGN DI TENU	12745		PROTO-CUNEIFORM SIGN DUG-B TIMES DIN
12716		PROTO-CUNEIFORM SIGN DIB	12746		PROTO-CUNEIFORM SIGN DUG-B TIMES DIN REVERSED
12717		PROTO-CUNEIFORM SIGN DILMUN	12747		PROTO-CUNEIFORM SIGN DUG-B TIMES GA-A
12718		PROTO-CUNEIFORM SIGN DIM-A	12748		PROTO-CUNEIFORM SIGN DUG-B TIMES GA-B
12719		PROTO-CUNEIFORM SIGN DIM-B	12749		PROTO-CUNEIFORM SIGN DUG-B TIMES GESHTU-A
1271A		PROTO-CUNEIFORM SIGN DIM-C	1274A		PROTO-CUNEIFORM SIGN DUG-B TIMES GESHTU-B
1271B		PROTO-CUNEIFORM SIGN DIN	1274B		PROTO-CUNEIFORM SIGN DUG-B TIMES GI6
1271C		PROTO-CUNEIFORM SIGN DIN TIMES ONE N58	1274C		PROTO-CUNEIFORM SIGN DUG-B TIMES GISH
1271D		PROTO-CUNEIFORM SIGN DIN TENU	1274D		PROTO-CUNEIFORM SIGN DUG-B TIMES HI
1271E		PROTO-CUNEIFORM SIGN DU	1274E		PROTO-CUNEIFORM SIGN DUG-B TIMES HI GUNU-A
1271F		PROTO-CUNEIFORM SIGN DU TIMES ONE N58 TENU	1274F		PROTO-CUNEIFORM SIGN DUG-B TIMES KASKAL
12720		PROTO-CUNEIFORM SIGN DU GUNU	1274G		PROTO-CUNEIFORM SIGN DUG-B TIMES KU6-A
12721		PROTO-CUNEIFORM SIGN DU6-A	12750		PROTO-CUNEIFORM SIGN DUG-B

12751		PROTO-CUNEIFORM SIGN DUG-B TIMES KUR-A	1277C		PROTO-CUNEIFORM SIGN E-A
12752		PROTO-CUNEIFORM SIGN DUG-B TIMES KUR-B	1277D		PROTO-CUNEIFORM SIGN E-B
12753		PROTO-CUNEIFORM SIGN DUG-B TIMES KUR GUNU-A	1277E		PROTO-CUNEIFORM SIGN E-C
12754		PROTO-CUNEIFORM SIGN DUG-B TIMES LAM-A	1277F		PROTO-CUNEIFORM SIGN E2-A
12755		PROTO-CUNEIFORM SIGN DUG-B TIMES MASH	12780		PROTO-CUNEIFORM SIGN E2-A TIMES ONE N58 TENU
12756		PROTO-CUNEIFORM SIGN DUG-B TIMES NAGA-A	12781		PROTO-CUNEIFORM SIGN E2-B
12757		PROTO-CUNEIFORM SIGN DUG-B TIMES NAM2	12782		PROTO-CUNEIFORM SIGN E2-B TIMES ONE N58 TENU
12758		PROTO-CUNEIFORM SIGN DUG-B TIMES SA-A	12783		PROTO-CUNEIFORM SIGN E2-C
12759		PROTO-CUNEIFORM SIGN DUG-B TIMES SA-A PLUS GI	12784		PROTO-CUNEIFORM SIGN E2-D
1275A		PROTO-CUNEIFORM SIGN DUG-B TIMES SI4-A	12785		PROTO-CUNEIFORM SIGN E3-B
1275B		PROTO-CUNEIFORM SIGN DUG-B TIMES SIG2-A1	12786		PROTO-CUNEIFORM SIGN EDIN
1275C		PROTO-CUNEIFORM SIGN DUG-B TIMES SIG2-A2	12787		PROTO-CUNEIFORM SIGN EN-A
1275D		PROTO-CUNEIFORM SIGN DUG-B TIMES SIG7	12788		PROTO-CUNEIFORM SIGN EN-B
1275E		PROTO-CUNEIFORM SIGN DUG-B TIMES SUHUR	12789		PROTO-CUNEIFORM SIGN EN-B TENU
1275F		PROTO-CUNEIFORM SIGN DUG-B TIMES SHAH2-A	1278A		PROTO-CUNEIFORM SIGN EN-C
12760		PROTO-CUNEIFORM SIGN DUG-B TIMES SHE-A	1278B		PROTO-CUNEIFORM SIGN EN GUNU-A
12761		PROTO-CUNEIFORM SIGN DUG-B TIMES SHE-A PLUS NAM2	1278C		PROTO-CUNEIFORM SIGN EN GUNU-B
12762		PROTO-CUNEIFORM SIGN DUG-B TIMES TAK4-A	1278D		PROTO-CUNEIFORM SIGN EN2
12763		PROTO-CUNEIFORM SIGN DUG-B TIMES TAK4-A PLUS SA-A	1278E		PROTO-CUNEIFORM SIGN ERIM-A
12764		PROTO-CUNEIFORM SIGN DUG-B TIMES TAK4-A PLUS SAL	1278F		PROTO-CUNEIFORM SIGN ERIM-B1
12765		PROTO-CUNEIFORM SIGN DUG-B TIMES TI	12790		PROTO-CUNEIFORM SIGN ERIM-B2
12766		PROTO-CUNEIFORM SIGN DUG-B TIMES U2-A	12791		PROTO-CUNEIFORM SIGN ERIN
12767		PROTO-CUNEIFORM SIGN DUG-B TIMES U2-B	12792		PROTO-CUNEIFORM SIGN ESHDA
12768		PROTO-CUNEIFORM SIGN DUG-B TIMES UDU-A	12793		PROTO-CUNEIFORM SIGN ESHDA TIMES TAR-A
		TIMES TAR-B	12794		PROTO-CUNEIFORM SIGN ESHGAR
12769		PROTO-CUNEIFORM SIGN DUG-B TIMES UH3-A	12795		PROTO-CUNEIFORM SIGN EZEN-A
1276A		PROTO-CUNEIFORM SIGN DUG-B TIMES UH3-A TENU	12796		PROTO-CUNEIFORM SIGN EZEN-A TIMES EN-B
			12797		PROTO-CUNEIFORM SIGN EZEN-A TIMES HI TIMES ONE N57 PLUS AN
1276B		PROTO-CUNEIFORM SIGN DUG-B TIMES ZATU764	12798		PROTO-CUNEIFORM SIGN EZEN-A TIMES KAB
1276C		PROTO-CUNEIFORM SIGN DUG-B TIMES ZATU779	12799		PROTO-CUNEIFORM SIGN EZEN-A TIMES KASH-B
1276D		PROTO-CUNEIFORM SIGN DUG-B TIMES ZATU780	1279A		PROTO-CUNEIFORM SIGN EZEN-A TIMES KI
1276E		PROTO-CUNEIFORM SIGN DUG-B TIMES ZATU781	1279B		PROTO-CUNEIFORM SIGN EZEN-A TIMES NIM-B2
1276F		PROTO-CUNEIFORM SIGN DUG-B TIMES ZATU789 PLUS SA-A	1279C		PROTO-CUNEIFORM SIGN EZEN-A TIMES NIMGIR
12770		PROTO-CUNEIFORM SIGN DUG-B TIMES ONE N57	1279D		PROTO-CUNEIFORM SIGN EZEN-A TIMES RAD-A
12771		PROTO-CUNEIFORM SIGN DUG-B TIMES ONE N57 PLUS KU3-A	1279E		PROTO-CUNEIFORM SIGN EZEN-A TIMES SU-A
12772		PROTO-CUNEIFORM SIGN DUG-B TIMES ONE N58	1279F		PROTO-CUNEIFORM SIGN EZEN-A TIMES U2-B PLUS A
12773		PROTO-CUNEIFORM SIGN DUG-B OVER DUG-B TIMES ONE N58	127A0		PROTO-CUNEIFORM SIGN EZEN-A TIMES U4
12774		PROTO-CUNEIFORM SIGN DUG-C	127A1		PROTO-CUNEIFORM SIGN EZEN-B
12775		PROTO-CUNEIFORM SIGN DUG-C TIMES ONE N57	127A2		PROTO-CUNEIFORM SIGN EZEN-B TIMES SHE-A
12776		PROTO-CUNEIFORM SIGN DUG-C TENU	127A3		PROTO-CUNEIFORM SIGN EZEN-B TIMES SIX N57
12777		PROTO-CUNEIFORM SIGN DUG-D	127A4		PROTO-CUNEIFORM SIGN EZEN-B TENU
12778		PROTO-CUNEIFORM SIGN DUGUD	127A5		PROTO-CUNEIFORM SIGN EZINU-A
12779		PROTO-CUNEIFORM SIGN DUR-A	127A6		PROTO-CUNEIFORM SIGN EZINU-B
1277A		PROTO-CUNEIFORM SIGN DUR-B	127A7		PROTO-CUNEIFORM SIGN EZINU-C
1277B		PROTO-CUNEIFORM SIGN DUR2	127A8		PROTO-CUNEIFORM SIGN EZINU-D

127A9		PROTO-CUNEIFORM SIGN GA-A	127D8		PROTO-CUNEIFORM SIGN GAAR-A1
127AA		PROTO-CUNEIFORM SIGN GA-B	127D9		PROTO-CUNEIFORM SIGN GAAR-A2
127AB		PROTO-CUNEIFORM SIGN GA-C	127DA		PROTO-CUNEIFORM SIGN GAAR-B1
127AC		PROTO-CUNEIFORM SIGN GA-C TIMES KASKAL	127DB		PROTO-CUNEIFORM SIGN GAAR-B2
127AD		PROTO-CUNEIFORM SIGN GA-C TIMES ONE N14	127DC		PROTO-CUNEIFORM SIGN GADA-A
127AE		PROTO-CUNEIFORM SIGN GA2-A1	127DD		PROTO-CUNEIFORM SIGN GADA-B GUNU
127AF		PROTO-CUNEIFORM SIGN GA2-A1 TIMES A	127DE		PROTO-CUNEIFORM SIGN GAL-A
127B0		PROTO-CUNEIFORM SIGN GA2-A1 TIMES E2-A	127DF		PROTO-CUNEIFORM SIGN GAL-B
127B1		PROTO-CUNEIFORM SIGN GA2-A1 TIMES EN-B	127E0		PROTO-CUNEIFORM SIGN GALGA-A
127B2		PROTO-CUNEIFORM SIGN GA2-A1 TIMES GESHTU-A	127E1		PROTO-CUNEIFORM SIGN GAN-A
127B3		PROTO-CUNEIFORM SIGN GA2-A1 TIMES GESHTU-C3	127E2		PROTO-CUNEIFORM SIGN GAN-B
127B4		PROTO-CUNEIFORM SIGN GA2-A1 TIMES GESHTU-C5	127E3		PROTO-CUNEIFORM SIGN GAN-C
127B5		PROTO-CUNEIFORM SIGN GA2-A1 TIMES GIR-A	127E4		PROTO-CUNEIFORM SIGN GAN-C TIMES DIN
127B6		PROTO-CUNEIFORM SIGN GA2-A1 TIMES GIR-A PLUS KU6-A	127E5		PROTO-CUNEIFORM SIGN GAN-C TIMES HI
127B7		PROTO-CUNEIFORM SIGN GA2-A1 TIMES GISH TENU	127E6		PROTO-CUNEIFORM SIGN GAN-C TIMES HI PLUS DIN
127B8		PROTO-CUNEIFORM SIGN GA2-A1 TIMES HAL	127E7		PROTO-CUNEIFORM SIGN GAN-C TIMES KASH-C
127B9		PROTO-CUNEIFORM SIGN GA2-A1 TIMES HI	127E8		PROTO-CUNEIFORM SIGN GAN-C TIMES KUR-A PLUS A
127BA		PROTO-CUNEIFORM SIGN GA2-A1 TIMES KU3-A	127E9		PROTO-CUNEIFORM SIGN GAN-C TIMES LAGAB-B
127BB		PROTO-CUNEIFORM SIGN GA2-A1 TIMES KU6-A	127EA		PROTO-CUNEIFORM SIGN GAN-C TIMES SIG7
127BC		PROTO-CUNEIFORM SIGN GA2-A1 TIMES KU6-A JOINING KU6-A	127EB		PROTO-CUNEIFORM SIGN GAN-C TIMES ZATU777
127BD		PROTO-CUNEIFORM SIGN GA2-A1 TIMES LAGAB-B	127EC		PROTO-CUNEIFORM SIGN GAN-C TIMES FOUR N57 PLUS GAR
127BE		PROTO-CUNEIFORM SIGN GA2-A1 TIMES MASH	127ED		PROTO-CUNEIFORM SIGN GAN-D TIMES GESHTU-A
127BF		PROTO-CUNEIFORM SIGN GA2-A1 TIMES PAD-B	127EE		PROTO-CUNEIFORM SIGN GAN2
127C0		PROTO-CUNEIFORM SIGN GA2-A1 TIMES PAP-A	127EF		PROTO-CUNEIFORM SIGN GAR
127C1		PROTO-CUNEIFORM SIGN GA2-A1 TIMES SU-A	127F0		PROTO-CUNEIFORM SIGN GAR GUNU-A
127C2		PROTO-CUNEIFORM SIGN GA2-A1 TIMES SUHUR	127F1		PROTO-CUNEIFORM SIGN GAR GUNU-B
127C3		PROTO-CUNEIFORM SIGN GA2-A1 TIMES SUKUD	127F2		PROTO-CUNEIFORM SIGN GAR GUNU-C
127C4		PROTO-CUNEIFORM SIGN GA2-A1 TIMES SUMASH	127F3		PROTO-CUNEIFORM SIGN GAR3
127C5		PROTO-CUNEIFORM SIGN GA2-A1 TIMES SHA	127F4		PROTO-CUNEIFORM SIGN GARA2-A
127C6		PROTO-CUNEIFORM SIGN GA2-A1 TIMES TI	127F5		PROTO-CUNEIFORM SIGN GAZI
127C7		PROTO-CUNEIFORM SIGN GA2-A1 TIMES U4	127F6		PROTO-CUNEIFORM SIGN GESHTIN-A
127C8		PROTO-CUNEIFORM SIGN GA2-A1 TIMES ONE N14	127F7		PROTO-CUNEIFORM SIGN GESHTIN-D
127C9		PROTO-CUNEIFORM SIGN GA2-A1 TIMES ONE N57	127F8		PROTO-CUNEIFORM SIGN GESHTIN-E
127CA		PROTO-CUNEIFORM SIGN GA2-A2	127F9		PROTO-CUNEIFORM SIGN GESHTU-A
127CB		PROTO-CUNEIFORM SIGN GA2-A2 TIMES GU4	127FA		PROTO-CUNEIFORM SIGN GESHTU-A TIMES SHE-A TENU
127CC		PROTO-CUNEIFORM SIGN GA2-A2 TIMES NI-A	127FB		PROTO-CUNEIFORM SIGN GESHTU-B
127CD		PROTO-CUNEIFORM SIGN GA2-A2 TIMES SUHUR	127FC		PROTO-CUNEIFORM SIGN GESHTU-C3
127CE		PROTO-CUNEIFORM SIGN GA2-A2 TIMES SHE3	127FD		PROTO-CUNEIFORM SIGN GESHTU-C5
127CF		PROTO-CUNEIFORM SIGN GA2-A2 TIMES SHE3 PLUS GU4	127FE		PROTO-CUNEIFORM SIGN GI
127D0		PROTO-CUNEIFORM SIGN GA2-A3	127FF		PROTO-CUNEIFORM SIGN GI TIMES A
127D1		PROTO-CUNEIFORM SIGN GA2-A4	12800		PROTO-CUNEIFORM SIGN GI TIMES GISH TENU
127D2		PROTO-CUNEIFORM SIGN GA2-B	12801		PROTO-CUNEIFORM SIGN GI TIMES KU-B1
127D3		PROTO-CUNEIFORM SIGN GA2-B TIMES DUB-A	12802		PROTO-CUNEIFORM SIGN GI TIMES LAGAB-A
127D4		PROTO-CUNEIFORM SIGN GA2-B TIMES DUB-B	12803		PROTO-CUNEIFORM SIGN GI TIMES NAM2
127D5		PROTO-CUNEIFORM SIGN GA2-B TIMES KU6-A	12804		PROTO-CUNEIFORM SIGN GI TIMES SIG2-D1
127D6		PROTO-CUNEIFORM SIGN GA2-B TIMES ZATU659	12805		PROTO-CUNEIFORM SIGN GI TIMES SHE3
127D7		PROTO-CUNEIFORM SIGN GA2-C	12806		PROTO-CUNEIFORM SIGN GI TIMES ONE N14
			12807		PROTO-CUNEIFORM SIGN GI TIMES ONE N58 TENU

12808		PROTO-CUNEIFORM SIGN GI OVER GI	12835		PROTO-CUNEIFORM SIGN GU7
12809		PROTO-CUNEIFORM SIGN GI OVER GI TIMES GISH TENU	12836		PROTO-CUNEIFORM SIGN GUB3-A
1280A		PROTO-CUNEIFORM SIGN GI OVER GI OVER GI	12837		PROTO-CUNEIFORM SIGN GUB3-B
1280B		PROTO-CUNEIFORM SIGN GI TENU	12838		PROTO-CUNEIFORM SIGN GUB3-C
1280C		PROTO-CUNEIFORM SIGN GI4-A	12839		PROTO-CUNEIFORM SIGN GUB3-D
1280D		PROTO-CUNEIFORM SIGN GI4-A TIMES A	1283A		PROTO-CUNEIFORM SIGN GUG2
1280E		PROTO-CUNEIFORM SIGN GI4-B	1283B		PROTO-CUNEIFORM SIGN GUG2 TIMES SILA3-A
1280F		PROTO-CUNEIFORM SIGN GI4-B OVER GI4-B	1283C		PROTO-CUNEIFORM SIGN GUG2 TIMES TUR
12810		PROTO-CUNEIFORM SIGN GI6	1283D		PROTO-CUNEIFORM SIGN GUUKKAL-A
12811		PROTO-CUNEIFORM SIGN GIBIL	1283E		PROTO-CUNEIFORM SIGN GUUKKAL-B
12812		PROTO-CUNEIFORM SIGN GIR-A	1283F		PROTO-CUNEIFORM SIGN GUUKKAL-C
12813		PROTO-CUNEIFORM SIGN GIR-B	12840		PROTO-CUNEIFORM SIGN GUL
12814		PROTO-CUNEIFORM SIGN GIR-C	12841		PROTO-CUNEIFORM SIGN GUM-A
12815		PROTO-CUNEIFORM SIGN GIR2-A	12842		PROTO-CUNEIFORM SIGN GUM-B
12816		PROTO-CUNEIFORM SIGN GIR3-A	12843		PROTO-CUNEIFORM SIGN GUM-B NUTILLU
12817		PROTO-CUNEIFORM SIGN GIR3-A TIMES SHE-B	12844		PROTO-CUNEIFORM SIGN GUN3-A
12818		PROTO-CUNEIFORM SIGN GIR3-B	12845		PROTO-CUNEIFORM SIGN GUN3-B
12819		PROTO-CUNEIFORM SIGN GIR3-C	12846		PROTO-CUNEIFORM SIGN GURUSH-A
1281A		PROTO-CUNEIFORM SIGN GIR3-C TIMES SHE3	12847		PROTO-CUNEIFORM SIGN GURUSH-A TIMES TWO N14
1281B		PROTO-CUNEIFORM SIGN GIR3 GUNU-A	12848		PROTO-CUNEIFORM SIGN GURUSH-B
1281C		PROTO-CUNEIFORM SIGN GIR3 GUNU-B	12849		PROTO-CUNEIFORM SIGN GURUSH-B TIMES TWO N14
1281D		PROTO-CUNEIFORM SIGN GIR3 GUNU-C	1284A		PROTO-CUNEIFORM SIGN HAL
1281E		PROTO-CUNEIFORM SIGN GISAL-A	1284B		PROTO-CUNEIFORM SIGN HALUB
1281F		PROTO-CUNEIFORM SIGN GISAL-B	1284C		PROTO-CUNEIFORM SIGN GURUSHDA
12820		PROTO-CUNEIFORM SIGN GISH	1284D		PROTO-CUNEIFORM SIGN HASHHUR
12821		PROTO-CUNEIFORM SIGN GISH TIMES DIN PLUS DIN FORM A	1284E		PROTO-CUNEIFORM SIGN HASHHUR TIMES MA
12822		PROTO-CUNEIFORM SIGN GISH TIMES DIN PLUS DIN FORM B	1284F		PROTO-CUNEIFORM SIGN HI
12823		PROTO-CUNEIFORM SIGN GISH TIMES DIN PLUS DIN FORM C	12850		PROTO-CUNEIFORM SIGN HI TIMES ONE N57
12824		PROTO-CUNEIFORM SIGN GISH TIMES SHU2	12851		PROTO-CUNEIFORM SIGN HI TIMES ONE N57
12825		FORM A FORM B	12852		TENU
12826		PROTO-CUNEIFORM SIGN GISH TENU	12853		PROTO-CUNEIFORM SIGN HI GUNU-A
12827		PROTO-CUNEIFORM SIGN GISH3-A	12854		PROTO-CUNEIFORM SIGN HI GUNU-B
12828		PROTO-CUNEIFORM SIGN GISH3-A OVER GISH3-A	12855		PROTO-CUNEIFORM SIGN HI GUNU-C
12829		PROTO-CUNEIFORM SIGN GISH3-B	12856		PROTO-CUNEIFORM SIGN I
1282A		PROTO-CUNEIFORM SIGN GISHGAL	12857		PROTO-CUNEIFORM SIGN IB-A
1282B		PROTO-CUNEIFORM SIGN GISHIMMAR-A1	12858		PROTO-CUNEIFORM SIGN IB-A NUTILLU
1282C		PROTO-CUNEIFORM SIGN GISHIMMAR-A2	12859		PROTO-CUNEIFORM SIGN IB-B
1282D		PROTO-CUNEIFORM SIGN GISHIMMAR-A3	1285A		PROTO-CUNEIFORM SIGN IB-C
1282E		PROTO-CUNEIFORM SIGN GISHIMMAR-B1	1285B		PROTO-CUNEIFORM SIGN IDIGNA
1282F		PROTO-CUNEIFORM SIGN GISHIMMAR-B2	1285C		PROTO-CUNEIFORM SIGN IG-A
12830		PROTO-CUNEIFORM SIGN GISHIMMAR-B3	1285D		PROTO-CUNEIFORM SIGN IG-B
12831		PROTO-CUNEIFORM SIGN GU	1285E		PROTO-CUNEIFORM SIGN IL
12832		PROTO-CUNEIFORM SIGN GU2	1285F		PROTO-CUNEIFORM SIGN IM-A
12833		PROTO-CUNEIFORM SIGN GU4 GUNU	12860		PROTO-CUNEIFORM SIGN IM-B
12834		PROTO-CUNEIFORM SIGN GU4 GUNU	12861		PROTO-CUNEIFORM SIGN IN-B
			12862		PROTO-CUNEIFORM SIGN IN-D
			12863		PROTO-CUNEIFORM SIGN GU7
			12864		PROTO-CUNEIFORM SIGN GU7

12865		PROTO-CUNEIFORM SIGN IR-A	12897		PROTO-CUNEIFORM SIGN KIN2-C
12866		PROTO-CUNEIFORM SIGN IR-B	12898		PROTO-CUNEIFORM SIGN KIN2-D
12867		PROTO-CUNEIFORM SIGN IR-C	12899		PROTO-CUNEIFORM SIGN KIN2-E
12868		PROTO-CUNEIFORM SIGN IR-D	1289A		PROTO-CUNEIFORM SIGN KISAL-A1
12869		PROTO-CUNEIFORM SIGN ISH-A	1289B		PROTO-CUNEIFORM SIGN KISAL-B1
1286A		PROTO-CUNEIFORM SIGN ISH-B	1289C		PROTO-CUNEIFORM SIGN KISAL-B2
1286B		PROTO-CUNEIFORM SIGN ISH-C	1289D		PROTO-CUNEIFORM SIGN KISAL-B2 TENU
1286C		PROTO-CUNEIFORM SIGN KA-A	1289E		PROTO-CUNEIFORM SIGN KISAL-B3
1286D		PROTO-CUNEIFORM SIGN KA-A TIMES SAR-A	1289F		PROTO-CUNEIFORM SIGN KISIM-A
1286E		PROTO-CUNEIFORM SIGN KA2-A	128A0		PROTO-CUNEIFORM SIGN KISIM-B
1286F		PROTO-CUNEIFORM SIGN KA2-B	128A1		PROTO-CUNEIFORM SIGN KISIM-C
12870		PROTO-CUNEIFORM SIGN KA2-D TIMES LAM-B	128A2		PROTO-CUNEIFORM SIGN KISH
12871		PROTO-CUNEIFORM SIGN KAB	128A3		PROTO-CUNEIFORM SIGN KISHIK-A
12872		PROTO-CUNEIFORM SIGN KAD4-A	128A4		PROTO-CUNEIFORM SIGN KISHIK-B
12873		PROTO-CUNEIFORM SIGN KAD4-B	128A5		PROTO-CUNEIFORM SIGN KITI
12874		PROTO-CUNEIFORM SIGN KAK-A	128A6		PROTO-CUNEIFORM SIGN KU-A
12875		PROTO-CUNEIFORM SIGN KAK-B	128A7		PROTO-CUNEIFORM SIGN KU-B1
12876		PROTO-CUNEIFORM SIGN KAL-A	128A8		PROTO-CUNEIFORM SIGN KU-B2
12877		PROTO-CUNEIFORM SIGN KAL-B1	128A9		PROTO-CUNEIFORM SIGN KU3-A
12878		PROTO-CUNEIFORM SIGN KAL-B2	128AA		PROTO-CUNEIFORM SIGN KU3-C
12879		PROTO-CUNEIFORM SIGN KALAM-A	128AB		PROTO-CUNEIFORM SIGN KU6-A
1287A		PROTO-CUNEIFORM SIGN KALAM-B	128AC		PROTO-CUNEIFORM SIGN KU6-A JOINING KU6-A
1287B		PROTO-CUNEIFORM SIGN KALAM-C	128AD		PROTO-CUNEIFORM SIGN KU6-C
1287C		PROTO-CUNEIFORM SIGN KALAM-D	128AE		PROTO-CUNEIFORM SIGN KU6-D
1287D		PROTO-CUNEIFORM SIGN KALAM-E	128AF		PROTO-CUNEIFORM SIGN KUR-A
1287E		PROTO-CUNEIFORM SIGN KALAM-F	128B0		PROTO-CUNEIFORM SIGN KUR-B
1287F		PROTO-CUNEIFORM SIGN KALAM-G	128B1		PROTO-CUNEIFORM SIGN KUR-C
12880		PROTO-CUNEIFORM SIGN KALAM-H	128B2		PROTO-CUNEIFORM SIGN KUR GUNU-A
12881		PROTO-CUNEIFORM SIGN KALAM-H2	128B3		PROTO-CUNEIFORM SIGN KUR GUNU-B
12882		PROTO-CUNEIFORM SIGN KAR2-A	128B4		PROTO-CUNEIFORM SIGN KUSHU2-A
12883		PROTO-CUNEIFORM SIGN KAR2-B	128B5		PROTO-CUNEIFORM SIGN KUSHU2-B
12884		PROTO-CUNEIFORM SIGN KASKAL	128B6		PROTO-CUNEIFORM SIGN KUSHU2-C
12885		PROTO-CUNEIFORM SIGN KASH-A	128B7		PROTO-CUNEIFORM SIGN KUSHU2-D
12886		PROTO-CUNEIFORM SIGN KASH-B	128B8		PROTO-CUNEIFORM SIGN KUSHU2-E
12887		PROTO-CUNEIFORM SIGN KASH-B TIMES SHE-A	128B9		PROTO-CUNEIFORM SIGN KUSHU2-F
		TENU	128BA		PROTO-CUNEIFORM SIGN LA-B
12888		PROTO-CUNEIFORM SIGN KASH-C	128BB		PROTO-CUNEIFORM SIGN LA-D
12889		PROTO-CUNEIFORM SIGN KASH-D	128BC		PROTO-CUNEIFORM SIGN LA2
1288A		PROTO-CUNEIFORM SIGN KI	128BD		PROTO-CUNEIFORM SIGN LAGAB-A
1288B		PROTO-CUNEIFORM SIGN KI NUTILLU	128BE		PROTO-CUNEIFORM SIGN LAGAB-A TIMES DU6-A
1288C		PROTO-CUNEIFORM SIGN KI NUTILLU TIMES DUB-A	128BF		PROTO-CUNEIFORM SIGN LAGAB-A TIMES KU6-A
			128C0		PROTO-CUNEIFORM SIGN LAGAB-A TIMES JOINING KU6-A
1288D		PROTO-CUNEIFORM SIGN KIB	128C1		PROTO-CUNEIFORM SIGN LAGAB-A TIMES KUSHU2-A TENU
1288E		PROTO-CUNEIFORM SIGN KIB GUNU	128C2		PROTO-CUNEIFORM SIGN LAGAB-A TIMES ME-A
1288F		PROTO-CUNEIFORM SIGN KID-A	128C3		PROTO-CUNEIFORM SIGN LAGAB-A TIMES NUN-B
12890		PROTO-CUNEIFORM SIGN KID-B	128C4		PROTO-CUNEIFORM SIGN LAGAB-A TIMES PA-A
12891		PROTO-CUNEIFORM SIGN KID-C	128C5		PROTO-CUNEIFORM SIGN LAGAB-A TIMES SIG7
12892		PROTO-CUNEIFORM SIGN KID-D	128C6		PROTO-CUNEIFORM SIGN LAGAB-A TIMES SU-A
12893		PROTO-CUNEIFORM SIGN KID-E			
12894		PROTO-CUNEIFORM SIGN KIN			
12895		PROTO-CUNEIFORM SIGN KIN2-A			
12896		PROTO-CUNEIFORM SIGN KIN2-B			

128C7		PROTO-CUNEIFORM SIGN LAGAB-A TIMES SHA	128F4		PROTO-CUNEIFORM SIGN MAH-A TIMES TUG2-A
128C8		PROTO-CUNEIFORM SIGN LAGAB-A TIMES SHITA-A1	128F5		PROTO-CUNEIFORM SIGN MAH-A TIMES TUN3-C
128C9		PROTO-CUNEIFORM SIGN LAGAB-A TIMES TI	128F6		PROTO-CUNEIFORM SIGN MAH-A TIMES UD5-A
128CA		PROTO-CUNEIFORM SIGN LAGAB-A TIMES U4	128F7		PROTO-CUNEIFORM SIGN MAH-A TIMES UDU-A
128CB		PROTO-CUNEIFORM SIGN LAGAB-A TIMES UB	128F8		PROTO-CUNEIFORM SIGN MAH-A TIMES UR-A
128CC		PROTO-CUNEIFORM SIGN LAGAB-A TIMES ZATU753	128F9		PROTO-CUNEIFORM SIGN MAH-A TIMES UTUA-A
128CD		PROTO-CUNEIFORM SIGN LAGAB-A TIMES TWO N14	128FA		PROTO-CUNEIFORM SIGN MAH-A TIMES ZATU659
128CE		PROTO-CUNEIFORM SIGN LAGAB-A TIMES ONE N58	128FB		PROTO-CUNEIFORM SIGN MAH-B
128CF		PROTO-CUNEIFORM SIGN LAGAB-B	128FC		PROTO-CUNEIFORM SIGN MAH-B TIMES NA-A
128D0		PROTO-CUNEIFORM SIGN LAGAB-B TIMES HI	128FD		PROTO-CUNEIFORM SIGN MAH-B TIMES SAL
128D1		PROTO-CUNEIFORM SIGN LAGAB-B TIMES KUR-E	128FE		PROTO-CUNEIFORM SIGN MAR-A
128D2		PROTO-CUNEIFORM SIGN LAGAB-B TIMES PA-A	128FF		PROTO-CUNEIFORM SIGN MAR-A GUNU
128D3		PROTO-CUNEIFORM SIGN LAGAB-B TIMES U4	12900		PROTO-CUNEIFORM SIGN MAR-A TENU
128D4		PROTO-CUNEIFORM SIGN LAGAB-B OVER LAGAB-B	12901		PROTO-CUNEIFORM SIGN MAR-B
128D5		PROTO-CUNEIFORM SIGN LAGAR-A	12902		PROTO-CUNEIFORM SIGN MAR-B TIMES GAR
128D6		PROTO-CUNEIFORM SIGN LAGAR-A REVERSED	12903		PROTO-CUNEIFORM SIGN MAR-B TIMES LAGAB-B
128D7		PROTO-CUNEIFORM SIGN LAGAR-B1	12904		PLUS SHE3
128D8		PROTO-CUNEIFORM SIGN LAGAR-B2	12905		PROTO-CUNEIFORM SIGN MAR-B TIMES SHE-A
128D9		PROTO-CUNEIFORM SIGN LAGAR-C	12906		PROTO-CUNEIFORM SIGN MASH
128DA		PROTO-CUNEIFORM SIGN LAL2-A	12907		PROTO-CUNEIFORM SIGN MASH2
128DB		PROTO-CUNEIFORM SIGN LAL2-A TIMES NAGA-A	12908		PROTO-CUNEIFORM SIGN ME-A
128DC		PROTO-CUNEIFORM SIGN LAL2-A TIMES NIM-B2	12909		PROTO-CUNEIFORM SIGN ME-B
128DD		PROTO-CUNEIFORM SIGN LAL2-B	1290A		PROTO-CUNEIFORM SIGN ME3
128DE		PROTO-CUNEIFORM SIGN LAL3-A	1290B		PROTO-CUNEIFORM SIGN MEN-A
128DF		PROTO-CUNEIFORM SIGN LAL3-B	1290C		PROTO-CUNEIFORM SIGN MEN-B
128E0		PROTO-CUNEIFORM SIGN LAM-A	1290D		PROTO-CUNEIFORM SIGN MES
128E1		PROTO-CUNEIFORM SIGN LAM-B	1290E		PROTO-CUNEIFORM SIGN MIR-A
128E2		PROTO-CUNEIFORM SIGN LAM-B REVERSED	1290F		PROTO-CUNEIFORM SIGN MIR-B
128E3		PROTO-CUNEIFORM SIGN LAM-B TENU	12910		PROTO-CUNEIFORM SIGN MU
128E4		PROTO-CUNEIFORM SIGN LISH	12911		PROTO-CUNEIFORM SIGN MUD
128E5		PROTO-CUNEIFORM SIGN LU2	12912		PROTO-CUNEIFORM SIGN MUD3-A
128E6		PROTO-CUNEIFORM SIGN LUM	12913		PROTO-CUNEIFORM SIGN MUD3-A GUNU
128E7		PROTO-CUNEIFORM SIGN MA	12914		PROTO-CUNEIFORM SIGN MUD3-B
128E8		PROTO-CUNEIFORM SIGN MA TIMES A	12915		PROTO-CUNEIFORM SIGN MUD3-C
128E9		PROTO-CUNEIFORM SIGN MA TIMES MA	12916		PROTO-CUNEIFORM SIGN MUD3-D
128EA		PROTO-CUNEIFORM SIGN MA TIMES ONE N58	12917		PROTO-CUNEIFORM SIGN MUL
128EB		PROTO-CUNEIFORM SIGN MA2	12918		PROTO-CUNEIFORM SIGN MUN-A1
128EC		PROTO-CUNEIFORM SIGN MAGUR-A	12919		PROTO-CUNEIFORM SIGN MUN-A2
128ED		PROTO-CUNEIFORM SIGN MAH-A	1291A		PROTO-CUNEIFORM SIGN MUN-A3
128EE		PROTO-CUNEIFORM SIGN MAH-A TIMES AB2	1291B		PROTO-CUNEIFORM SIGN MUN-A4
128EF		PROTO-CUNEIFORM SIGN MAH-A TIMES GUDDL-A	1291C		PROTO-CUNEIFORM SIGN MUN-B
128F0		PROTO-CUNEIFORM SIGN MAH-A TIMES KU6-A	1291D		PROTO-CUNEIFORM SIGN MUNSHUB-A
128F1		PROTO-CUNEIFORM SIGN MAH-A TIMES MASH	1291E		PROTO-CUNEIFORM SIGN MUNSHUB-B
128F2		PROTO-CUNEIFORM SIGN MAH-A TIMES NA-A	1291F		PROTO-CUNEIFORM SIGN MUNU3
128F3		PROTO-CUNEIFORM SIGN MAH-A TIMES SILA3-A TIMES UMBIN-A	12920		PROTO-CUNEIFORM SIGN MUSH
			12921		PROTO-CUNEIFORM SIGN MUSH3-A
			12922		PROTO-CUNEIFORM SIGN MUSH3-A GUNU
			12923		PROTO-CUNEIFORM SIGN MUSH3-B
			12924		PROTO-CUNEIFORM SIGN MUSHEN
			12925		PROTO-CUNEIFORM SIGN ONE N58 BAD
			12926		PROTO-CUNEIFORM SIGN ONE N58 PLUS BAD FORM B
			12927		PROTO-CUNEIFORM SIGN THREE N58 UR3-B1

12928		PROTO-CUNEIFORM SIGN NA-A	12958		PROTO-CUNEIFORM SIGN NINDA2 TIMES GAR
12929		PROTO-CUNEIFORM SIGN NA-B	12959		PROTO-CUNEIFORM SIGN NINDA2 TIMES GISH
1292A		PROTO-CUNEIFORM SIGN NA-C	1295A		PROTO-CUNEIFORM SIGN NINDA2 TIMES GU4
1292B		PROTO-CUNEIFORM SIGN NA2-A	1295B		PROTO-CUNEIFORM SIGN NINDA2 TIMES HI
1292C		PROTO-CUNEIFORM SIGN NA2-B1	1295C		PROTO-CUNEIFORM SIGN NINDA2 TIMES HI PLUS
1292D		PROTO-CUNEIFORM SIGN NA2-B2	1295D		AN PLUS ME-A
1292E		PROTO-CUNEIFORM SIGN NA2-C	1295E		PROTO-CUNEIFORM SIGN NINDA2 TIMES KASH-B
1292F		PROTO-CUNEIFORM SIGN NAB	1295F		PROTO-CUNEIFORM SIGN NINDA2 TIMES MAR-A
12930		PROTO-CUNEIFORM SIGN NAGA-A	12960		PROTO-CUNEIFORM SIGN NINDA2 TIMES MAR-B
12931		PROTO-CUNEIFORM SIGN NAGA-A TIMES TAK4-A	12961		PROTO-CUNEIFORM SIGN NINDA2 TIMES NUN-A
12932		PROTO-CUNEIFORM SIGN NAGA-B	12962		PROTO-CUNEIFORM SIGN NINDA2 TIMES U4
12933		PROTO-CUNEIFORM SIGN NAGAR-A	12963		PROTO-CUNEIFORM SIGN NINDA2 TIMES ZATU659 ONE N01
12934		PROTO-CUNEIFORM SIGN NAGAR-B	12964		PROTO-CUNEIFORM SIGN NINDA2 TIMES ZATU710
12935		PROTO-CUNEIFORM SIGN NAM-A	12965		PROTO-CUNEIFORM SIGN NINDA2 TIMES ONE N01
12936		PROTO-CUNEIFORM SIGN NAM-B	12966		PROTO-CUNEIFORM SIGN NINDA2 TIMES TWO N01
12937		PROTO-CUNEIFORM SIGN NAM-C	12967		PROTO-CUNEIFORM SIGN NINDA2 TIMES ONE N06
12938		PROTO-CUNEIFORM SIGN NAM-D	12968		PROTO-CUNEIFORM SIGN NINDA2 TIMES ONE N08
12939		PROTO-CUNEIFORM SIGN NAM2	12969		PROTO-CUNEIFORM SIGN NIR-A
1293A		PROTO-CUNEIFORM SIGN NAM2 TIMES ONE N01	1296A		PROTO-CUNEIFORM SIGN NIR-A TIMES AN
1293B		PROTO-CUNEIFORM SIGN NAM2 GUNU	1296B		PROTO-CUNEIFORM SIGN NIR-B
1293C		PROTO-CUNEIFORM SIGN NAM2 TENU	1296C		PROTO-CUNEIFORM SIGN NU
1293D		PROTO-CUNEIFORM SIGN NANSHE-A	1296D		PROTO-CUNEIFORM SIGN NU GUNU
1293E		PROTO-CUNEIFORM SIGN NANSHE-B	1296E		PROTO-CUNEIFORM SIGN NU11
1293F		PROTO-CUNEIFORM SIGN NAR	1296F		PROTO-CUNEIFORM SIGN NU11 OVER NU11
12940		PROTO-CUNEIFORM SIGN NE-A	12970		PROTO-CUNEIFORM SIGN NU11 TENU
12941		PROTO-CUNEIFORM SIGN NE-B	12971		PROTO-CUNEIFORM SIGN NUMUN
12942		PROTO-CUNEIFORM SIGN NE-C	12972		PROTO-CUNEIFORM SIGN NUN-A
12943		PROTO-CUNEIFORM SIGN NE-D	12973		PROTO-CUNEIFORM SIGN NUN-A JOINING A
12944		PROTO-CUNEIFORM SIGN NESAG2-A	12974		PROTO-CUNEIFORM SIGN NUN-A JOINING EN-A
12945		PROTO-CUNEIFORM SIGN NESAG2-B	12975		PROTO-CUNEIFORM SIGN NUN-A JOINING EN-B
12946		PROTO-CUNEIFORM SIGN NI-A	12976		PROTO-CUNEIFORM SIGN NUN-A JOINING EN-D
12947		PROTO-CUNEIFORM SIGN NI-A GUNU	12977		PROTO-CUNEIFORM SIGN NUN-A JOINING NAM2
12948		PROTO-CUNEIFORM SIGN NI-B	12978		PROTO-CUNEIFORM SIGN NUN-B
12949		PROTO-CUNEIFORM SIGN NI-B TIMES FOUR N57	12979		PROTO-CUNEIFORM SIGN NUN-B JOINING EN-A
1294A		PROTO-CUNEIFORM SIGN NI-B TIMES EIGHT N57	1297A		PROTO-CUNEIFORM SIGN NUN-C
1294B		PROTO-CUNEIFORM SIGN NI2	1297B		PROTO-CUNEIFORM SIGN NUN-D
1294C		PROTO-CUNEIFORM SIGN NIGIN	1297C		PROTO-CUNEIFORM SIGN NUNUZ-A0
1294D		PROTO-CUNEIFORM SIGN NIM-A	1297D		PROTO-CUNEIFORM SIGN NUNUZ-A1
1294E		PROTO-CUNEIFORM SIGN NIM-B1	1297E		PROTO-CUNEIFORM SIGN NUNUZ-A2
1294F		PROTO-CUNEIFORM SIGN NIM-B2	1297F		PROTO-CUNEIFORM SIGN NUNUZ-B1
12950		PROTO-CUNEIFORM SIGN NIM-B3	12980		PROTO-CUNEIFORM SIGN NUNUZ-C
12951		PROTO-CUNEIFORM SIGN NIMGIR	12981		PROTO-CUNEIFORM SIGN PA-A
12952		PROTO-CUNEIFORM SIGN NINDA2	12982		PROTO-CUNEIFORM SIGN PA-B
12953		PROTO-CUNEIFORM SIGN NINDA2 TIMES AN	12983		PROTO-CUNEIFORM SIGN PAD-A
12954		PROTO-CUNEIFORM SIGN NINDA2 TIMES AN PLUS HI	12984		PROTO-CUNEIFORM SIGN PAD-B
12955		PROTO-CUNEIFORM SIGN NINDA2 TIMES AN PLUS ME-A	12985		PROTO-CUNEIFORM SIGN PAP-A
12956		PROTO-CUNEIFORM SIGN NINDA2 TIMES EZEN-B			GAAR-A1

12986		PROTO-CUNEIFORM SIGN PAP-A TENU	129B6		PROTO-CUNEIFORM SIGN SI4-B
12987		PROTO-CUNEIFORM SIGN PAP-B	129B7		PROTO-CUNEIFORM SIGN SI4-C
12988		PROTO-CUNEIFORM SIGN PIRIG-A1	129B8		PROTO-CUNEIFORM SIGN SI4-D
12989		PROTO-CUNEIFORM SIGN PIRIG-A2	129B9		PROTO-CUNEIFORM SIGN SI4-F
1298A		PROTO-CUNEIFORM SIGN PIRIG-A3	129BA		PROTO-CUNEIFORM SIGN SIG
1298B		PROTO-CUNEIFORM SIGN PIRIG-B1	129BB		PROTO-CUNEIFORM SIGN SIG2-A1
1298C		PROTO-CUNEIFORM SIGN PIRIG-B1 JOINING DIN	129BC		PROTO-CUNEIFORM SIGN SIG2-A2
1298D		PROTO-CUNEIFORM SIGN PIRIG-B2	129BD		PROTO-CUNEIFORM SIGN SIG2-A3
1298E		PROTO-CUNEIFORM SIGN PU2	129BE		PROTO-CUNEIFORM SIGN SIG2-A4
1298F		PROTO-CUNEIFORM SIGN RA	129C0		PROTO-CUNEIFORM SIGN SIG2-B OVER SIG2-B
12990		PROTO-CUNEIFORM SIGN RAD-A	129C1		PROTO-CUNEIFORM SIGN SIG2-C1
12991		PROTO-CUNEIFORM SIGN RAD-A GUNU	129C2		PROTO-CUNEIFORM SIGN SIG2-C2
12992		PROTO-CUNEIFORM SIGN RAD-B	129C3		PROTO-CUNEIFORM SIGN SIG2-D1
12993		PROTO-CUNEIFORM SIGN RI8-A	129C4		PROTO-CUNEIFORM SIGN SIG2-D2
12994		PROTO-CUNEIFORM SIGN RI8-B	129C5		PROTO-CUNEIFORM SIGN SIG2-D3
12995		PROTO-CUNEIFORM SIGN RU	129C6		PROTO-CUNEIFORM SIGN SIG2-D4
12996		PROTO-CUNEIFORM SIGN SA-A	129C7		PROTO-CUNEIFORM SIGN SIG2-E
12997		PROTO-CUNEIFORM SIGN SA-C	129C8		PROTO-CUNEIFORM SIGN SIG4
12998		PROTO-CUNEIFORM SIGN SAG	129C9		PROTO-CUNEIFORM SIGN SIG7
12999		PROTO-CUNEIFORM SIGN SAG JOINING UKKIN-B	129CA		PROTO-CUNEIFORM SIGN SILA3-A
	TIMES ONE N57		129CB		PROTO-CUNEIFORM SIGN SILA3-A TIMES A
1299A		PROTO-CUNEIFORM SIGN SAG TIMES GESHTU-A	129CC		PROTO-CUNEIFORM SIGN SILA3-A TIMES AMAR
1299B		PROTO-CUNEIFORM SIGN SAG TIMES GESHTU-B	129CD		PROTO-CUNEIFORM SIGN SILA3-A TIMES DUG-A
1299C		PROTO-CUNEIFORM SIGN SAG TIMES MA	129CE		PROTO-CUNEIFORM SIGN SILA3-A TIMES GA-A
1299D		PROTO-CUNEIFORM SIGN SAG TIMES NAM2	129CF		PROTO-CUNEIFORM SIGN SILA3-A TIMES GARA2-A
1299E		PROTO-CUNEIFORM SIGN SAG GUNU	129D0		PROTO-CUNEIFORM SIGN SILA3-A TIMES GESHTU-A
1299F		PROTO-CUNEIFORM SIGN SAG NUTILLU	129D1		PROTO-CUNEIFORM SIGN SILA3-A TIMES GESHTU-C3
129A0		PROTO-CUNEIFORM SIGN SAGSHU	129D2		PROTO-CUNEIFORM SIGN SILA3-A TIMES HASHHUR
129A1		PROTO-CUNEIFORM SIGN SAL	129D3		PROTO-CUNEIFORM SIGN SILA3-A TIMES HI
129A2		PROTO-CUNEIFORM SIGN SAL TIMES ONE N58	129D4		PROTO-CUNEIFORM SIGN SILA3-A TIMES IB-A
129A3		PROTO-CUNEIFORM SIGN SANGA-A	129D5		PROTO-CUNEIFORM SIGN SILA3-A TIMES KASH-A
129A4		PROTO-CUNEIFORM SIGN SANGA-B	129D6		PROTO-CUNEIFORM SIGN SILA3-A TIMES KASH-C
129A5		PROTO-CUNEIFORM SIGN SANGA-C	129D7		PROTO-CUNEIFORM SIGN SILA3-A TIMES KASH-D
129A6		PROTO-CUNEIFORM SIGN SANGA-E	129D8		PROTO-CUNEIFORM SIGN SILA3-A TIMES KU6-A
129A7		PROTO-CUNEIFORM SIGN SAR-A	129D9		PROTO-CUNEIFORM SIGN SILA3-A TIMES KUR-A
129A8		PROTO-CUNEIFORM SIGN SAR-A TIMES SHE-A	129DA		PROTO-CUNEIFORM SIGN SILA3-A TIMES MA
129A9		PROTO-CUNEIFORM SIGN SAR-B	129DB		PROTO-CUNEIFORM SIGN SILA3-A TIMES MASH
129AA		PROTO-CUNEIFORM SIGN SAR-C	129DC		PROTO-CUNEIFORM SIGN SILA3-A TIMES MUD3-B
129AB		PROTO-CUNEIFORM SIGN SAR-D	129DD		PROTO-CUNEIFORM SIGN SILA3-A TIMES NAGA-A
129AC		PROTO-CUNEIFORM SIGN SI	129DE		PROTO-CUNEIFORM SIGN SILA3-A TIMES NI-A
129AD		PROTO-CUNEIFORM SIGN SI JOINING AN	129DF		PROTO-CUNEIFORM SIGN SILA3-A TIMES NUN-B
129AE		PROTO-CUNEIFORM SIGN SI TIMES EN-A	129E0		PROTO-CUNEIFORM SIGN SILA3-A TIMES SUHUR
129AF		PROTO-CUNEIFORM SIGN SI TIMES GU4	129E1		PROTO-CUNEIFORM SIGN SILA3-A TIMES SUM-A
129B0		PROTO-CUNEIFORM SIGN SI TIMES KU-B1	129E2		PROTO-CUNEIFORM SIGN SILA3-A TIMES SUM-B
129B1		PROTO-CUNEIFORM SIGN SI TIMES SAL	129E3		PROTO-CUNEIFORM SIGN SILA3-A TIMES SHE-A
129B2		PROTO-CUNEIFORM SIGN SI TIMES SHE3	129E4		PROTO-CUNEIFORM SIGN SILA3-A TIMES SHE-A
129B3		PROTO-CUNEIFORM SIGN SI TIMES TUN3-A	129E5		TENU
129B4		PROTO-CUNEIFORM SIGN SI TIMES ONE N58			PROTO-CUNEIFORM SIGN SILA3-A TIMES SHU
129B5		PROTO-CUNEIFORM SIGN SI4-A	129E5		

129E6		PROTO-CUNEIFORM SIGN SILA3-A TIMES SHU2	12A12		PROTO-CUNEIFORM SIGN SHA GUNU
129E7		PROTO-CUNEIFORM SIGN SILA3-A TIMES ZATU629	12A13		PROTO-CUNEIFORM SIGN SHA3-A1
129E8		PROTO-CUNEIFORM SIGN SILA3-A TIMES ZATU646	12A14		PROTO-CUNEIFORM SIGN SHA3-A2
129E9		PROTO-CUNEIFORM SIGN SILA3-A TIMES ZATU659 PLUS TU-C	12A15		PROTO-CUNEIFORM SIGN SHA3-A2 GUNU
129EA		PROTO-CUNEIFORM SIGN SILA3-A TIMES ONE N57	12A16		PROTO-CUNEIFORM SIGN SHA3-B
129EB		PROTO-CUNEIFORM SIGN SILA3-B	12A17		PROTO-CUNEIFORM SIGN SHA3-C
129EC		PROTO-CUNEIFORM SIGN SILA3-B TIMES GUG2	12A18		PROTO-CUNEIFORM SIGN SHA3-D
129ED		PROTO-CUNEIFORM SIGN SILA3-B TIMES NAGA-B	12A19		PROTO-CUNEIFORM SIGN SHAGAN
129EE		PROTO-CUNEIFORM SIGN SILA3-B TIMES NI-A	12A1A		PROTO-CUNEIFORM SIGN SHAGINA
129EF		PROTO-CUNEIFORM SIGN SILA3-B TIMES NI-B	12A1B		PROTO-CUNEIFORM SIGN SHAH2-A
129F0		PROTO-CUNEIFORM SIGN SILA3-C TIMES ZATU687	12A1C		PROTO-CUNEIFORM SIGN SHAH2-B
129F1		PROTO-CUNEIFORM SIGN SILA4-A	12A1D		PROTO-CUNEIFORM SIGN SHAH2-C
129F2		PROTO-CUNEIFORM SIGN SILA4-B	12A1E		PROTO-CUNEIFORM SIGN SHAKIR-A
129F3		PROTO-CUNEIFORM SIGN SILA4-C	12A1F		PROTO-CUNEIFORM SIGN SHAKIR-B
129F4		PROTO-CUNEIFORM SIGN SILA4-D	12A20		PROTO-CUNEIFORM SIGN SHAKIR-C
129F5		PROTO-CUNEIFORM SIGN SILANITA	12A21		PROTO-CUNEIFORM SIGN SHAM2
129F6		PROTO-CUNEIFORM SIGN SIMUG	12A22		PROTO-CUNEIFORM SIGN SHE-A
129F7		PROTO-CUNEIFORM SIGN SU-A	12A23		PROTO-CUNEIFORM SIGN SHE-A OVER SHE-A
129F8		PROTO-CUNEIFORM SIGN SU-A TIMES ONE N58	12A24		PROTO-CUNEIFORM SIGN SHE-A TENU
129F9		PROTO-CUNEIFORM SIGN SU-B	12A25		PROTO-CUNEIFORM SIGN SHE-B
129FA		PROTO-CUNEIFORM SIGN SU-C	12A26		PROTO-CUNEIFORM SIGN SHE-C
129FB		PROTO-CUNEIFORM SIGN SU3	12A27		PROTO-CUNEIFORM SIGN SHE3
129FC		PROTO-CUNEIFORM SIGN SUG	12A28		PROTO-CUNEIFORM SIGN SHE3 TENU
129FD		PROTO-CUNEIFORM SIGN SUG5	12A29		PROTO-CUNEIFORM SIGN SHEG9
129FE		PROTO-CUNEIFORM SIGN SUH3	12A2A		PROTO-CUNEIFORM SIGN SHEN-A
129FF		PROTO-CUNEIFORM SIGN SUHUR	12A2B		PROTO-CUNEIFORM SIGN SHEN-B
12A00		PROTO-CUNEIFORM SIGN SUHUR GUNU	12A2C		PROTO-CUNEIFORM SIGN SHEN-C
12A01		PROTO-CUNEIFORM SIGN SUHUR NUTILLU	12A2D		PROTO-CUNEIFORM SIGN SHEN-C TENU
12A02		PROTO-CUNEIFORM SIGN SUHUR TENU	12A2E		PROTO-CUNEIFORM SIGN SHEN-D TIMES A
12A03		PROTO-CUNEIFORM SIGN SUKKAL	12A2F		PROTO-CUNEIFORM SIGN SHEN-E
12A04		PROTO-CUNEIFORM SIGN SUKUD	12A30		PROTO-CUNEIFORM SIGN SHENNUR-A
12A05		PROTO-CUNEIFORM SIGN SUKUD JOINING SUKUD FORM A	12A31		PROTO-CUNEIFORM SIGN SHENNUR-B
12A06		PROTO-CUNEIFORM SIGN SUKUD JOINING SUKUD FORM B	12A32		PROTO-CUNEIFORM SIGN SHESH-A
12A07		PROTO-CUNEIFORM SIGN SUKUD GUNU-A	12A33		PROTO-CUNEIFORM SIGN SHESH-B
12A08		PROTO-CUNEIFORM SIGN SUKUD GUNU-B	12A34		PROTO-CUNEIFORM SIGN SHIDIM
12A09		PROTO-CUNEIFORM SIGN SUKUD GUNU-C	12A35		PROTO-CUNEIFORM SIGN SHIM-A
12A0A		PROTO-CUNEIFORM SIGN SUKUD GUNU-D	12A36		PROTO-CUNEIFORM SIGN SHIM-B
12A0B		PROTO-CUNEIFORM SIGN SUM-A	12A37		PROTO-CUNEIFORM SIGN SHIR-A
12A0C		PROTO-CUNEIFORM SIGN SUM-B	12A38		PROTO-CUNEIFORM SIGN SHIR-B
12A0D		PROTO-CUNEIFORM SIGN SUMASH	12A39		PROTO-CUNEIFORM SIGN SHITA-A1
12A0E		PROTO-CUNEIFORM SIGN SUR	12A3A		PROTO-CUNEIFORM SIGN SHITA-A1 TIMES KAK-A
12A0F		PROTO-CUNEIFORM SIGN SHA	12A3B		PROTO-CUNEIFORM SIGN SHITA-A1 TIMES SHU
12A10		PROTO-CUNEIFORM SIGN SHA TIMES HI GUNU-A FORM A	12A3C		PROTO-CUNEIFORM SIGN SHITA-A2
12A11		PROTO-CUNEIFORM SIGN SHA TIMES HI GUNU-A FORM B	12A3D		PROTO-CUNEIFORM SIGN SHITA-A3
			12A3E		PROTO-CUNEIFORM SIGN SHITA-B1
			12A3F		PROTO-CUNEIFORM SIGN SHITA-B2
			12A40		PROTO-CUNEIFORM SIGN SHITA-B2 GUNU TIMES HI GUNU-A
			12A41		PROTO-CUNEIFORM SIGN SHITA-B3
			12A42		PROTO-CUNEIFORM SIGN SHITA-B3 TIMES NAM2
			12A43		PROTO-CUNEIFORM SIGN SHITA GUNU-A
			12A44		PROTO-CUNEIFORM SIGN SHITA GUNU-A TIMES ONE N06

12A45		PROTO-CUNEIFORM SIGN SHITA GUNU-B	12A78		PROTO-CUNEIFORM SIGN TUR GUNU
12A46		PROTO-CUNEIFORM SIGN SHU	12A79		PROTO-CUNEIFORM SIGN TUR3-A
12A47		PROTO-CUNEIFORM SIGN SHU TIMES ONE N58	12A7A		PROTO-CUNEIFORM SIGN TUR3-B
12A48		PROTO-CUNEIFORM SIGN SHU OVER SHU	12A7B		PROTO-CUNEIFORM SIGN TUR3-C
12A49		PROTO-CUNEIFORM SIGN SHU GUNU	12A7C		PROTO-CUNEIFORM SIGN U2-A
12A4A		PROTO-CUNEIFORM SIGN SHU2	12A7D		PROTO-CUNEIFORM SIGN U2-B
12A4B		PROTO-CUNEIFORM SIGN SHU12	12A7E		PROTO-CUNEIFORM SIGN U2-C
12A4C		PROTO-CUNEIFORM SIGN SHUBUR	12A80		PROTO-CUNEIFORM SIGN U4
12A4D		PROTO-CUNEIFORM SIGN SHUM	12A81		PROTO-CUNEIFORM SIGN U4 TIMES ONE N01
12A4E		PROTO-CUNEIFORM SIGN SHUR2 TIMES ONE N58	12A81		PROTO-CUNEIFORM SIGN U4 TIMES ONE N01
12A4F		PROTO-CUNEIFORM SIGN SHUR2-A			PLUS ONE N24
12A50		PROTO-CUNEIFORM SIGN SHUR2-B	12A82		PROTO-CUNEIFORM SIGN U4 TIMES THREE N01
12A51		PROTO-CUNEIFORM SIGN TA-A	12A83		PROTO-CUNEIFORM SIGN U4 TIMES FOUR N01
12A52		PROTO-CUNEIFORM SIGN TA-B	12A84		PROTO-CUNEIFORM SIGN U4 TIMES FIVE N01
12A53		PROTO-CUNEIFORM SIGN TA-C	12A85		PROTO-CUNEIFORM SIGN U4 TIMES SIX N01
12A54		PROTO-CUNEIFORM SIGN TA-D	12A86		PROTO-CUNEIFORM SIGN U4 TIMES EIGHT N01
12A55		PROTO-CUNEIFORM SIGN TA-E	12A87		PROTO-CUNEIFORM SIGN U4 TIMES ONE N14
12A56		PROTO-CUNEIFORM SIGN TAG-A1	12A88		PROTO-CUNEIFORM SIGN U4 TIMES ONE N14
12A57		PROTO-CUNEIFORM SIGN TAG-A1 TENU			PLUS ONE N01
12A58		PROTO-CUNEIFORM SIGN TAG-A2	12A89		PROTO-CUNEIFORM SIGN U4 TIMES ONE N14
12A59		PROTO-CUNEIFORM SIGN TAG-A3			PLUS TWO N01
12A5A		PROTO-CUNEIFORM SIGN TAG-A4	12A8A		PROTO-CUNEIFORM SIGN U4 TIMES ONE N14
12A5B		PROTO-CUNEIFORM SIGN TAG-B	12A8B		PLUS FOUR N01
12A5C		PROTO-CUNEIFORM SIGN TAG-C			PROTO-CUNEIFORM SIGN U4 TIMES ONE N14
12A5D		PROTO-CUNEIFORM SIGN TAG-D	12A8C		PLUS EIGHT N01
12A5E		PROTO-CUNEIFORM SIGN TAK4-A	12A8D		PROTO-CUNEIFORM SIGN U4 TIMES TWO N14
12A5F		PROTO-CUNEIFORM SIGN TAK4-A NUTILLU			PLUS FOUR N01
12A60		PROTO-CUNEIFORM SIGN TAK4-C	12A8D		PROTO-CUNEIFORM SIGN U4 TIMES THREE N14
12A61		PROTO-CUNEIFORM SIGN TAR-A			PLUS TWO N01
12A62		PROTO-CUNEIFORM SIGN TE	12A8E		PROTO-CUNEIFORM SIGN U4 TIMES THREE N14
12A63		PROTO-CUNEIFORM SIGN TI			PLUS SEVEN N01
12A64		PROTO-CUNEIFORM SIGN TI GUNU	12A8F		PROTO-CUNEIFORM SIGN U4 TIMES ONE N57
12A65		PROTO-CUNEIFORM SIGN TI REVERSED	12A90		PROTO-CUNEIFORM SIGN U4 TIMES TWO N57
12A66		PROTO-CUNEIFORM SIGN TI TENU	12A91		PROTO-CUNEIFORM SIGN U4 TIMES THREE N57
12A67		PROTO-CUNEIFORM SIGN TILLA2	12A92		PROTO-CUNEIFORM SIGN U4 TIMES FOUR N57
12A68		PROTO-CUNEIFORM SIGN TU-A	12A93		PROTO-CUNEIFORM SIGN U4 TIMES FIVE N57
12A69		PROTO-CUNEIFORM SIGN TU-B	12A94		PROTO-CUNEIFORM SIGN U4 TIMES SIX N57
12A6A		PROTO-CUNEIFORM SIGN TU-C	12A95		PROTO-CUNEIFORM SIGN U4 TIMES SEVEN N57
12A6B		PROTO-CUNEIFORM SIGN TUG2-A	12A96		PROTO-CUNEIFORM SIGN U4 TIMES EIGHT N57
12A6C		PROTO-CUNEIFORM SIGN TUG2-A GUNU	12A97		PROTO-CUNEIFORM SIGN U4 TIMES ONE N57
12A6D		PROTO-CUNEIFORM SIGN TUG2-B	12A98		PROTO-CUNEIFORM SIGN U4 TIMES ONE N58
12A6E		PROTO-CUNEIFORM SIGN TUG2-C			TENU
12A6F		PROTO-CUNEIFORM SIGN TUM-A	12A99		PROTO-CUNEIFORM SIGN U4 TENU
12A70		PROTO-CUNEIFORM SIGN TUM-A GUNU	12A9A		PROTO-CUNEIFORM SIGN U8
12A71		PROTO-CUNEIFORM SIGN TUM-B	12A9B		PROTO-CUNEIFORM SIGN U8 TIMES TAR-B
12A72		PROTO-CUNEIFORM SIGN TUM-C	12A9C		PROTO-CUNEIFORM SIGN UB
12A73		PROTO-CUNEIFORM SIGN TUM-D	12A9D		PROTO-CUNEIFORM SIGN UBI-A
12A74		PROTO-CUNEIFORM SIGN TUN3-A	12A9E		PROTO-CUNEIFORM SIGN UBI-C
12A75		PROTO-CUNEIFORM SIGN TUN3-B	12A9F		PROTO-CUNEIFORM SIGN UBI-D
12A76		PROTO-CUNEIFORM SIGN TUN3-C	12A9G		PROTO-CUNEIFORM SIGN UD5-A
12A77		PROTO-CUNEIFORM SIGN TUR			

12AA1		PROTO-CUNEIFORM SIGN UD5-A GUNU	12ACF		PROTO-CUNEIFORM SIGN UR4-B
12AA2		PROTO-CUNEIFORM SIGN UD5-B	12AD0		PROTO-CUNEIFORM SIGN UR4-C
12AA3		PROTO-CUNEIFORM SIGN UD5-C	12AD1		PROTO-CUNEIFORM SIGN UR5-A
12AA4		PROTO-CUNEIFORM SIGN UDU-A	12AD2		PROTO-CUNEIFORM SIGN UR5-B
12AA5		PROTO-CUNEIFORM SIGN UDU-A TIMES TAR-A	12AD3		PROTO-CUNEIFORM SIGN URI
12AA6		PROTO-CUNEIFORM SIGN UDU-A TIMES TAR-B	12AD4		PROTO-CUNEIFORM SIGN URI3-A
12AA7		PROTO-CUNEIFORM SIGN UDU-C	12AD5		PROTO-CUNEIFORM SIGN UR15
12AA8		PROTO-CUNEIFORM SIGN UDUNITA-A	12AD6		PROTO-CUNEIFORM SIGN URU-A1
12AA9		PROTO-CUNEIFORM SIGN UDUNITA-B	12AD7		PROTO-CUNEIFORM SIGN URU-A1 TIMES AMAR
12AAA		PROTO-CUNEIFORM SIGN UDUNITA-C	12AD8		PROTO-CUNEIFORM SIGN URU-A1 TIMES HI GUNU-A
12AAB		PROTO-CUNEIFORM SIGN UH3-A	12AD9		PROTO-CUNEIFORM SIGN URU-A1 TIMES KI
12AAC		PROTO-CUNEIFORM SIGN UH3-A TENU	12ADA		PROTO-CUNEIFORM SIGN URU-A1 TIMES NIMGIR
12AAD		PROTO-CUNEIFORM SIGN UH3-B	12ADB		PROTO-CUNEIFORM SIGN URU-A1 TIMES U4
12AAE		PROTO-CUNEIFORM SIGN UKKIN-A	12ADC		PROTO-CUNEIFORM SIGN URU-A1 TIMES THREE N57
12AAF		PROTO-CUNEIFORM SIGN UKKIN-B	12ADD		PROTO-CUNEIFORM SIGN URU-A2
12AB0		PROTO-CUNEIFORM SIGN UKKIN-B TIMES DIN	12ADE		PROTO-CUNEIFORM SIGN URU-A2 TIMES ONE N58
12AB1		PROTO-CUNEIFORM SIGN UKKIN-B TIMES DIN PLUS ONE N01	12ADF		PROTO-CUNEIFORM SIGN URU-A3 TIMES KALAM-A
12AB2		PROTO-CUNEIFORM SIGN UKKIN-B TIMES HI GUNU-A	12AE0		PROTO-CUNEIFORM SIGN URU-B1
12AB3		PROTO-CUNEIFORM SIGN UKKIN-B TIMES NI-A	12AE1		PROTO-CUNEIFORM SIGN URU-B2
12AB4		PROTO-CUNEIFORM SIGN UKKIN-B TIMES TWO N01	12AE2		PROTO-CUNEIFORM SIGN URU-C
12AB5		PROTO-CUNEIFORM SIGN UKKIN-B TIMES THREE N01	12AE3		PROTO-CUNEIFORM SIGN URUDU-A
12AB6		PROTO-CUNEIFORM SIGN UKKIN-B TIMES FIVE N01	12AE4		PROTO-CUNEIFORM SIGN URUDU-C
12AB7		PROTO-CUNEIFORM SIGN UKKIN-C	12AE5		PROTO-CUNEIFORM SIGN URUDU-D
12AB8		PROTO-CUNEIFORM SIGN UMBIN-A	12AE6		PROTO-CUNEIFORM SIGN URUDU GUNU-A
12AB9		PROTO-CUNEIFORM SIGN UMBIN-B1	12AE7		PROTO-CUNEIFORM SIGN URUDU GUNU-C
12ABA		PROTO-CUNEIFORM SIGN UMBIN-B2	12AE8		PROTO-CUNEIFORM SIGN URUDU GUNU-D
12ABB		PROTO-CUNEIFORM SIGN UMBIN-C	12AE9		PROTO-CUNEIFORM SIGN USH-A
12ABC		PROTO-CUNEIFORM SIGN UMUN2	12AEA		PROTO-CUNEIFORM SIGN USH-A OVER USH-A
12ABD		PROTO-CUNEIFORM SIGN UNUG-A	12AEB		PROTO-CUNEIFORM SIGN USH-B
12ABE		PROTO-CUNEIFORM SIGN UNUG-A TIMES A TENU	12AEC		PROTO-CUNEIFORM SIGN USH-B TIMES TAR-C
12ABF		PROTO-CUNEIFORM SIGN UNUG-A SHESHIG	12AED		PROTO-CUNEIFORM SIGN USH-B OVER USH-B
12AC0		PROTO-CUNEIFORM SIGN UNUG-B	12AEE		PROTO-CUNEIFORM SIGN USHUR3-B1
12AC1		PROTO-CUNEIFORM SIGN UNUG-C	12AEF		PROTO-CUNEIFORM SIGN USHUR3-B2
12AC2		PROTO-CUNEIFORM SIGN UR-A	12AF0		PROTO-CUNEIFORM SIGN UTUA-A
12AC3		PROTO-CUNEIFORM SIGN UR-A GUNU	12AF1		PROTO-CUNEIFORM SIGN UTUA-A TENU
12AC4		PROTO-CUNEIFORM SIGN UR-B	12AF2		PROTO-CUNEIFORM SIGN UTUA-B
12AC5		PROTO-CUNEIFORM SIGN UR-C	12AF3		PROTO-CUNEIFORM SIGN UTUL-A
12AC6		PROTO-CUNEIFORM SIGN UR2	12AF4		PROTO-CUNEIFORM SIGN UTUL-B
12AC7		PROTO-CUNEIFORM SIGN UR2 TIMES TAR-C	12AF5		PROTO-CUNEIFORM SIGN UTUL-C
12AC8		PROTO-CUNEIFORM SIGN UR2 TIMES ONE N57	12AF6		PROTO-CUNEIFORM SIGN UTUL-D
12AC9		PROTO-CUNEIFORM SIGN UR3-A1	12AF7		PROTO-CUNEIFORM SIGN UZU
12ACA		PROTO-CUNEIFORM SIGN UR3-A2	12AF8		PROTO-CUNEIFORM SIGN ZA-V
12ACB		PROTO-CUNEIFORM SIGN UR3-A3	12AF9		PROTO-CUNEIFORM SIGN ZAG-A
12ACC		PROTO-CUNEIFORM SIGN UR3-B1	12AFA		PROTO-CUNEIFORM SIGN ZAG-B
12ACD		PROTO-CUNEIFORM SIGN UR3-B2	12AFB		PROTO-CUNEIFORM SIGN ZAG-C
12ACE		PROTO-CUNEIFORM SIGN UR4-A	12AFC		PROTO-CUNEIFORM SIGN ZAR-A
			12AFD		PROTO-CUNEIFORM SIGN ZAR-B1
			12AFE		PROTO-CUNEIFORM SIGN ZAR-B2

12AFF		PROTO-CUNEIFORM SIGN ZAR-C	12B31		PROTO-CUNEIFORM SIGN ZATU659 TIMES ONE
12B00		PROTO-CUNEIFORM SIGN ZI-A	12B32		N14
12B01		PROTO-CUNEIFORM SIGN ZI-B	12B33		PROTO-CUNEIFORM SIGN ZATU659 TIMES ONE
12B02		PROTO-CUNEIFORM SIGN ZI-D	12B34		N58 TENU
12B03		PROTO-CUNEIFORM SIGN ZUBI-A	12B35		PROTO-CUNEIFORM SIGN ZATU662
12B04		PROTO-CUNEIFORM SIGN ZATU620	12B36		PROTO-CUNEIFORM SIGN ZATU662 TIMES ONE
12B05		PROTO-CUNEIFORM SIGN ZATU621-A	12B37		N14
12B06		PROTO-CUNEIFORM SIGN ZATU621-B	12B38		PROTO-CUNEIFORM SIGN ZATU664
12B07		PROTO-CUNEIFORM SIGN ZATU621-C	12B39		PROTO-CUNEIFORM SIGN ZATU665
12B08		PROTO-CUNEIFORM SIGN ZATU621-D	12B40		PROTO-CUNEIFORM SIGN ZATU666
12B09		PROTO-CUNEIFORM SIGN ZATU622	12B41		PROTO-CUNEIFORM SIGN ZATU667
12B0A		PROTO-CUNEIFORM SIGN ZATU623	12B42		PROTO-CUNEIFORM SIGN ZATU668
12B0B		PROTO-CUNEIFORM SIGN ZATU624-A	12B43		PROTO-CUNEIFORM SIGN ZATU669
12B0C		PROTO-CUNEIFORM SIGN ZATU624-B	12B44		PROTO-CUNEIFORM SIGN ZATU672
12B0D		PROTO-CUNEIFORM SIGN ZATU625	12B45		PROTO-CUNEIFORM SIGN ZATU674
12B0E		PROTO-CUNEIFORM SIGN ZATU626-A	12B46		PROTO-CUNEIFORM SIGN ZATU675-A
12B0F		PROTO-CUNEIFORM SIGN ZATU626-B	12B47		PROTO-CUNEIFORM SIGN ZATU675-B
12B10		PROTO-CUNEIFORM SIGN ZATU626-C	12B48		PROTO-CUNEIFORM SIGN ZATU675-C
12B11		PROTO-CUNEIFORM SIGN ZATU628-A	12B49		PROTO-CUNEIFORM SIGN ZATU676-A
12B12		PROTO-CUNEIFORM SIGN ZATU628-B	12B50		PROTO-CUNEIFORM SIGN ZATU676-B
12B13		PROTO-CUNEIFORM SIGN ZATU629	12B51		PROTO-CUNEIFORM SIGN ZATU677-A
12B14		PROTO-CUNEIFORM SIGN ZATU630	12B52		PROTO-CUNEIFORM SIGN ZATU677-B
12B15		PROTO-CUNEIFORM SIGN ZATU631	12B53		PROTO-CUNEIFORM SIGN ZATU678
12B16		PROTO-CUNEIFORM SIGN ZATU632-A	12B54		PROTO-CUNEIFORM SIGN ZATU679
12B17		PROTO-CUNEIFORM SIGN ZATU632-B	12B55		PROTO-CUNEIFORM SIGN ZATU680-A1
12B18		PROTO-CUNEIFORM SIGN ZATU633-A	12B56		PROTO-CUNEIFORM SIGN ZATU680-A2
12B19		PROTO-CUNEIFORM SIGN ZATU633-B	12B57		PROTO-CUNEIFORM SIGN ZATU680-B
12B1A		PROTO-CUNEIFORM SIGN ZATU635	12B58		PROTO-CUNEIFORM SIGN ZATU680-D
12B1B		PROTO-CUNEIFORM SIGN ZATU636	12B59		PROTO-CUNEIFORM SIGN ZATU681
12B1C		PROTO-CUNEIFORM SIGN ZATU637	12B60		PROTO-CUNEIFORM SIGN ZATU682
12B1D		PROTO-CUNEIFORM SIGN ZATU639	12B61		PROTO-CUNEIFORM SIGN ZATU683-A
12B1E		PROTO-CUNEIFORM SIGN ZATU641			PROTO-CUNEIFORM SIGN ZATU683-B
12B1F		PROTO-CUNEIFORM SIGN ZATU642			PROTO-CUNEIFORM SIGN ZATU684
12B20		PROTO-CUNEIFORM SIGN ZATU643			PROTO-CUNEIFORM SIGN ZATU685
12B21		PROTO-CUNEIFORM SIGN ZATU644-A			PROTO-CUNEIFORM SIGN ZATU686-A
12B22		PROTO-CUNEIFORM SIGN ZATU644-B			PROTO-CUNEIFORM SIGN ZATU686-B
12B23		PROTO-CUNEIFORM SIGN ZATU646			PROTO-CUNEIFORM SIGN ZATU686-C
12B24		PROTO-CUNEIFORM SIGN ZATU647			PROTO-CUNEIFORM SIGN ZATU687
12B25		PROTO-CUNEIFORM SIGN ZATU648			PROTO-CUNEIFORM SIGN ZATU688-A
12B26		PROTO-CUNEIFORM SIGN ZATU649			PROTO-CUNEIFORM SIGN ZATU688-B
12B27		PROTO-CUNEIFORM SIGN ZATU651			PROTO-CUNEIFORM SIGN ZATU689
12B28		PROTO-CUNEIFORM SIGN ZATU651 TIMES AN			PROTO-CUNEIFORM SIGN ZATU690
12B29		PROTO-CUNEIFORM SIGN ZATU651 TIMES EN-A			PROTO-CUNEIFORM SIGN ZATU691
12B2A		PROTO-CUNEIFORM SIGN ZATU651 TIMES GAR			PROTO-CUNEIFORM SIGN ZATU692
12B2B		PROTO-CUNEIFORM SIGN ZATU651 TIMES MA			PROTO-CUNEIFORM SIGN ZATU693
12B2C		PROTO-CUNEIFORM SIGN ZATU651 TIMES NUN-A			PROTO-CUNEIFORM SIGN ZATU693 TENU
12B2D		PROTO-CUNEIFORM SIGN ZATU651 TIMES ZAR-C			PROTO-CUNEIFORM SIGN ZATU694-A
12B2E		PROTO-CUNEIFORM SIGN ZATU651 GUNU			PROTO-CUNEIFORM SIGN ZATU694-B
12B2F		PROTO-CUNEIFORM SIGN ZATU659			PROTO-CUNEIFORM SIGN ZATU694-C
12B30		PROTO-CUNEIFORM SIGN ZATU659 TIMES ONE			PROTO-CUNEIFORM SIGN ZATU694-D
		N01			

12B62		PROTO-CUNEIFORM SIGN ZATU694-D TENU	12B93		PROTO-CUNEIFORM SIGN ZATU737 TIMES EN-A
12B63		PROTO-CUNEIFORM SIGN ZATU695	12B94		PROTO-CUNEIFORM SIGN ZATU737 TIMES EN-B
12B64		PROTO-CUNEIFORM SIGN ZATU696	12B95		PROTO-CUNEIFORM SIGN ZATU737 TIMES GAR
12B65		PROTO-CUNEIFORM SIGN ZATU697-A	12B96		PROTO-CUNEIFORM SIGN ZATU737 TIMES NI-A GUNU
12B66		PROTO-CUNEIFORM SIGN ZATU697-B	12B97		PROTO-CUNEIFORM SIGN ZATU737 TIMES NIMGIR
12B67		PROTO-CUNEIFORM SIGN ZATU699-B	12B98		PROTO-CUNEIFORM SIGN ZATU737 TIMES SAL
12B68		PROTO-CUNEIFORM SIGN ZATU700	12B99		PROTO-CUNEIFORM SIGN ZATU737 TIMES SU-A
12B69		PROTO-CUNEIFORM SIGN ZATU701	12B9A		PROTO-CUNEIFORM SIGN ZATU737 TIMES SHE-A
12B6A		PROTO-CUNEIFORM SIGN ZATU702	12B9B		PROTO-CUNEIFORM SIGN ZATU737 TIMES SHITA-A1
12B6B		PROTO-CUNEIFORM SIGN ZATU703	12B9C		PROTO-CUNEIFORM SIGN ZATU737 TIMES U4
12B6C		PROTO-CUNEIFORM SIGN ZATU705	12B9D		PROTO-CUNEIFORM SIGN ZATU737 TIMES UNUG-A
12B6D		PROTO-CUNEIFORM SIGN ZATU706	12B9E		PROTO-CUNEIFORM SIGN ZATU749-A
12B6E		PROTO-CUNEIFORM SIGN ZATU707-A	12B9F		PROTO-CUNEIFORM SIGN ZATU749-B
12B6F		PROTO-CUNEIFORM SIGN ZATU707-B	12BA0		PROTO-CUNEIFORM SIGN ZATU749-C
12B70		PROTO-CUNEIFORM SIGN ZATU708	12BA1		PROTO-CUNEIFORM SIGN ZATU750
12B71		PROTO-CUNEIFORM SIGN ZATU709	12BA2		PROTO-CUNEIFORM SIGN ZATU751-A
12B72		PROTO-CUNEIFORM SIGN ZATU710	12BA3		PROTO-CUNEIFORM SIGN ZATU751-B
12B73		PROTO-CUNEIFORM SIGN ZATU711	12BA4		PROTO-CUNEIFORM SIGN ZATU751-C
12B74		PROTO-CUNEIFORM SIGN ZATU711 TIMES HI GUNU-A	12BA5		PROTO-CUNEIFORM SIGN ZATU752
12B75		PROTO-CUNEIFORM SIGN ZATU713	12BA6		PROTO-CUNEIFORM SIGN ZATU753
12B76		PROTO-CUNEIFORM SIGN ZATU714	12BA7		PROTO-CUNEIFORM SIGN ZATU754
12B77		PROTO-CUNEIFORM SIGN ZATU714 TIMES HI GUNU-A	12BA8		PROTO-CUNEIFORM SIGN ZATU755-A
12B78		PROTO-CUNEIFORM SIGN ZATU717	12BA9		PROTO-CUNEIFORM SIGN ZATU755-B
12B79		PROTO-CUNEIFORM SIGN ZATU718	12BAA		PROTO-CUNEIFORM SIGN ZATU756
12B7A		PROTO-CUNEIFORM SIGN ZATU719	12BAB		PROTO-CUNEIFORM SIGN ZATU757
12B7B		PROTO-CUNEIFORM SIGN ZATU720	12BAC		PROTO-CUNEIFORM SIGN ZATU758
12B7C		PROTO-CUNEIFORM SIGN ZATU721	12BAD		PROTO-CUNEIFORM SIGN ZATU759
12B7D		PROTO-CUNEIFORM SIGN ZATU722	12BAE		PROTO-CUNEIFORM SIGN ZATU759 TIMES KU6-A
12B7E		PROTO-CUNEIFORM SIGN ZATU723	12BAF		PROTO-CUNEIFORM SIGN ZATU759 TIMES KU6-A JOINING KU6-A
12B7F		PROTO-CUNEIFORM SIGN ZATU725	12BB0		PROTO-CUNEIFORM SIGN ZATU762-A
12B80		PROTO-CUNEIFORM SIGN ZATU726-A	12BB1		PROTO-CUNEIFORM SIGN ZATU762-A TIMES
12B81		PROTO-CUNEIFORM SIGN ZATU726-C	12BB2		NIM-A
12B82		PROTO-CUNEIFORM SIGN ZATU726-D	12BB3		PROTO-CUNEIFORM SIGN ZATU762-B TIMES AB-A
12B83		PROTO-CUNEIFORM SIGN ZATU727	12BB4		PROTO-CUNEIFORM SIGN ZATU764
12B84		PROTO-CUNEIFORM SIGN ZATU728	12BB5		PROTO-CUNEIFORM SIGN ZATU765
12B85		PROTO-CUNEIFORM SIGN ZATU729	12BB6		PROTO-CUNEIFORM SIGN ZATU766
12B86		PROTO-CUNEIFORM SIGN ZATU730	12BB7		PROTO-CUNEIFORM SIGN ZATU767
12B87		PROTO-CUNEIFORM SIGN ZATU732	12BB8		PROTO-CUNEIFORM SIGN ZATU772
12B88		PROTO-CUNEIFORM SIGN ZATU734	12BB9		PROTO-CUNEIFORM SIGN ZATU773-A
12B89		PROTO-CUNEIFORM SIGN ZATU735-A	12BBA		PROTO-CUNEIFORM SIGN ZATU773-B
12B8A		PROTO-CUNEIFORM SIGN ZATU735-B	12BBB		PROTO-CUNEIFORM SIGN ZATU774
12B8B		PROTO-CUNEIFORM SIGN ZATU735-C	12BBC		PROTO-CUNEIFORM SIGN ZATU775
12B8C		PROTO-CUNEIFORM SIGN ZATU736-A	12BBD		PROTO-CUNEIFORM SIGN ZATU776
12B8D		PROTO-CUNEIFORM SIGN ZATU736-B	12BBE		PROTO-CUNEIFORM SIGN ZATU777
12B8E		PROTO-CUNEIFORM SIGN ZATU737	12BBF		PROTO-CUNEIFORM SIGN ZATU778
12B8F		PROTO-CUNEIFORM SIGN ZATU737 TIMES AB-A	12BC0		PROTO-CUNEIFORM SIGN ZATU780
12B90		PROTO-CUNEIFORM SIGN ZATU737 TIMES BU-A			
12B91		PROTO-CUNEIFORM SIGN ZATU737 TIMES BUR-A			
12B92		PROTO-CUNEIFORM SIGN ZATU737 TIMES DI			

12BC1		PROTO-CUNEIFORM SIGN ZATU781	12BE1		PROTO-CUNEIFORM SIGN ZATU836
12BC2		PROTO-CUNEIFORM SIGN ZATU782	12BE2		PROTO-CUNEIFORM SIGN ZATU847
12BC3		PROTO-CUNEIFORM SIGN ZATU783	12BE3		PROTO-CUNEIFORM SIGN ZATU850
12BC4		PROTO-CUNEIFORM SIGN ZATU784	12BE4		PROTO-CUNEIFORM SIGN ZATU851
12BC5		PROTO-CUNEIFORM SIGN ZATU786	12BE5		PROTO-CUNEIFORM SIGN ZATU854
12BC6		PROTO-CUNEIFORM SIGN ZATU787	12BE6		PROTO-CUNEIFORM SIGN ZATU858
12BC7		PROTO-CUNEIFORM SIGN ZATU788	12BE7		PROTO-CUNEIFORM SIGN ZATU859
12BC8		PROTO-CUNEIFORM SIGN ZATU791	12BE8		PROTO-CUNEIFORM NUMERIC SIGN TWO
12BC9		PROTO-CUNEIFORM SIGN ZATU792	12BE9		LAGAB-A
12BCA		PROTO-CUNEIFORM SIGN ZATU795	12BEA		PROTO-CUNEIFORM NUMERIC SIGN THREE
12BCB		PROTO-CUNEIFORM SIGN ZATU797	12BEB		LAGAB-A
12BCC		PROTO-CUNEIFORM SIGN ZATU798	12BEC		PROTO-CUNEIFORM NUMERIC SIGN ONE N57
12BCD		PROTO-CUNEIFORM SIGN ZATU799	12BED		PROTO-CUNEIFORM NUMERIC SIGN TWO N57
12BCE		PROTO-CUNEIFORM SIGN ZATU800	12BEE		PROTO-CUNEIFORM NUMERIC SIGN THREE N57
12BCF		PROTO-CUNEIFORM SIGN ZATU801	12BEF		PROTO-CUNEIFORM NUMERIC SIGN FOUR N57
12BD0		PROTO-CUNEIFORM SIGN ZATU802	12BF0		PROTO-CUNEIFORM NUMERIC SIGN FIVE N57
12BD1		PROTO-CUNEIFORM SIGN ZATU802-B	12BF1		PROTO-CUNEIFORM NUMERIC SIGN SIX N57
12BD2		PROTO-CUNEIFORM SIGN ZATU803	12BF2		PROTO-CUNEIFORM NUMERIC SIGN SEVEN N57
12BD3		PROTO-CUNEIFORM SIGN ZATU804	12BF3		PROTO-CUNEIFORM NUMERIC SIGN EIGHT N57
12BD4		PROTO-CUNEIFORM SIGN ZATU806	12BF4		PROTO-CUNEIFORM NUMERIC SIGN NINE N57
12BD5		PROTO-CUNEIFORM SIGN ZATU807	12BF5		PROTO-CUNEIFORM NUMERIC SIGN ONE N57
12BD6		PROTO-CUNEIFORM SIGN ZATU808	12BF6		PROTO-CUNEIFORM NUMERIC SIGN ONE N58
12BD7		PROTO-CUNEIFORM SIGN ZATU809	12BF7		PROTO-CUNEIFORM NUMERIC SIGN TWO N58
12BD8		PROTO-CUNEIFORM SIGN ZATU810	12BF8		PROTO-CUNEIFORM NUMERIC SIGN THREE N58
12BD9		PROTO-CUNEIFORM SIGN ZATU811	12BF9		PROTO-CUNEIFORM NUMERIC SIGN FOUR N58
12BDA		PROTO-CUNEIFORM SIGN ZATU812	12BFA		PROTO-CUNEIFORM NUMERIC SIGN FIVE N58
12BDB		PROTO-CUNEIFORM SIGN ZATU813	12BFB		PROTO-CUNEIFORM NUMERIC SIGN EIGHT N58
12BDC		PROTO-CUNEIFORM SIGN ZATU819	12BFC		PROTO-CUNEIFORM NUMERIC SIGN NINE N58
12BDD		PROTO-CUNEIFORM SIGN ZATU832	12BFD		PROTO-CUNEIFORM NUMERIC SIGN ONE N58
12BDE		PROTO-CUNEIFORM SIGN ZATU833	12BFE		PROTO-CUNEIFORM NUMERIC SIGN ONE N58
12BDF		PROTO-CUNEIFORM SIGN ZATU834	12BFF		PROTO-CUNEIFORM NUMERIC SIGN ONE N58
12BE0		PROTO-CUNEIFORM SIGN ZATU835			TENU

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Appendices

Here we provide supporting documentation which exposes as much as possible of the decision-making processes and outcomes that are associated with the proposal.

PCSL Appendix A gives the Proto-Cuneiform Sign List (<http://oracc.org/pcsl>) is condensed into a table which gives information on the entire PC signiary. The corpus instances are represented by distributional summaries; alignment with ZATU is provided in the main character box, and the published per-volume sign lists are represented in their own columns.

Deferred Characters Appendix B lists all of the characters that are not encoded because they occur only in unpublished texts.

Excluded Characters Appendices C to I give tables of characters according to the rationale for their exclusion.

Sequences Various relevant data about sequences are in Appendix J to L.

Fonts A brief description of the fonts provided with the proposal is given in Appendix M.

A PCSL Table

The PCSL Table condenses the Proto-Cuneiform Sign List into a convenient overview of the entire Proto-Cuneiform repertoire and its various data sources. The contents of the columns are as follows:

PCSL The core PCSL data: the sign name and category tag are at the top of the case; the distribution, Oracc ID (OID) and ZATU number, if any, are at the bottom of the case. If the sign is proposed for encoding in PC25, the hex codepoint and reference glyph are given in the middle of the case.

FONT The glyphs as given in PCSL.ttf, with their codepoints. Glyphs coloured blue are not included in the CDLI-gh collection. Subscript numbers before glyphs indicate the CVNN code for the variant, i.e., $\text{cv}01$

CDLI The original CDLI-gh image, scaled from a 600dpi image set downloaded from the CDLI website in 2016.

ATU3, ATU5, MSVO1, MSCO4, CUSAS Glyphs as given in the sign lists of the relevant text editions, but drawn from the PCSL font. Glyphs in red differ in naming from CDLI-gh; (o) means that the instance has no variant code; (a), (b), etc., means that the instance has the given variant code.

PCSL	FONT	CDLI	ATU3	ATU5	MSVO1	MSVO4	CUSAS
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A	12690		PC25		12690		12690		12690		12690	
584x	IV: 34p/17u; III: 370p/183u	o0980000	ZATU001		1 F207A							
A×AB ₂		UNP										
3x III: 3u	o0980001			F2400								
A×AN		EDI										
o0980002				F24F2								
A×EN~a	12691		PC25		12691				12691			
1x IV: 1p; III: 1p	o0980003	ZATU002										
A×ŠUBUR	12692		PC25		12692				12692			
1x IV: 1p; III: 1p	o0980004	ZATU003										
A×ZATU672	12693		PC25		12693				12693			
1x IV: 1p; III: 1p	o0980005	ZATU005										
A×1(N14)	12694		PC25		12694							
1x IV: 1p	o0980006	ZATU004										
A@g		EDI										
o0980007				F24CC								
A@t		UNP										
1x III: 1u	o0980008			F2401								
A ₂	12695		PC25		12695		12695		12695			
2x IV: 1p; III: 2p	o0980009	ZATU006										
AB~a	12696		PC25		1 F207B				12696		12696	
450x	IV: 34p/6u; III: 337p/93u	o0980010	ZATU007		12696				12696		12696	
AB~a×A@t	12697		PC25		12697				12697			
2x IV: 1p/1u; III: 2p	o0980011				1 F207C							
AB~a×AŠ ₂	12698		PC25		12698							
2x III: 2p	o0980012	ZATU009			1 F207D							
AB~a×KU ₆ ~a		ZERO										
o0980013	ZATU389			F2402								
AB~a×SUKKAL		UNP										
3x III: 3u	o0980014			F2403								
AB~a×(ŠE~a&ŠE~a)	12699		PC25		12699							
3x III: 3p	o0980015			1 F207E								

AB~a×X	ZERO	F2404					
	o0980016						
AB~a×ZATU659	PC25	1269A					
1269A			1269A		1269A		
3× III: 3p	o0980017	ZATU010					
AB~a×1(N01)	ZERO	F2405					
	o0980018						
AB~a×1(N04)	PC25	1269B					1269B
1269B			1269B				
3× III: 3p	o0980019						
AB~a@g	PC25	1269C			1269C		
1269C			1269C		1269C		
3× IV: 1u; III: 1p/1u	o0980020	ZATU011					
AB~b	PC25	1269D			1269D	1269D	1269D
1269D			1269D		1269D	1269D	1269D
90× IV: 1p/2u;							
III: 54p/32u	o0980021	ZATU007					
AB~b×A	UNP	F2406					
1× III: 1u	o0980022	ZATU008					
AB~b×KU ₆ ~a	UNP	F2407					
1× III: 1u	o0980023						
AB~b×ŠA ₃ ~a1	UNP	F2408					
1× III: 1u	o0980024						
AB ₂	PC25	1269E			1269E	1269E	1269E
1269E			1269E		1269E	1269E	1269E
350×							
IV: 83p/7u;							
III: 254p/51u	o0980025	ZATU012					
AB ₂ ×2(N14)	PC25	1269F			1269F	F2081	
1269F			1269F		1269F	F2081	
2× IV: 2p; III: 2p	o0980026	ZATU013					
AB ₂ @g	UNP	F2525					
	o0980027						
ABGAL	PC25-sq	F2082			F2082		
51× III: 42p/9u	o0980028	ZATU015					
ABRIG	PC25-sq	F2084			F2085		
2× III: 2p	o0980029	ZATU016					
ABZU	PC25	126A0			126A0		
126A0			126A0		126A0		
5× III: 5p	o0980030	ZATU017					

AD~a 126A1		PC25 51x III: 37p/14u						
AD~b 126A2		PC25 3x IV: 1p; III: 2p						
AD~c 126A3		PC25 9x IV: 1p; III: 6p/2u						
ADAB 126A4		PC25 44x IV: 15p/4u; III: 22p/9u						
ADDA 126A5		PC25 1x III: 1p						
ADDA@t		ZERO o0980036						
AGAR₂ 126A6		PC25 18x III: 16p/2u						
AK~a 126A7		PC25 56x IV: 8p/1u; III: 39p/12u						
AK~b 126A8		PC25 2x IV: 2p						
AL 126A9		PC25 132x IV: 11p/3u; III: 87p/39u						
ALAN~a 126AA		PC25 8x IV: 2u; III: 7p/1u						
ALAN~b 126AB		PC25 7x III: 4p/3u						
ALAN~c 126AC		PC25 8x IV: 1u; III: 5p/2u						
ALAN~d		UNP 1x IV: 1u						
ALAN~e 126AD		PC25 2x III: 2p						
ALAN~f		EDI o0980046						
ALIM 126AE		PC25 12x III: 10p/2u						

AM~a 126AF		PC25						
2x III: 2p	o0980048	ZATU027						
AM~b 126B0		PC25						
2x III: 2p	o0980049	ZATU027						
AMA~a 126B1		PC25						
105x IV: 19p/1u; III: 71p/20u	o0980050	ZATU028						
AMA~axE ₂ ~a 126B2		PC25						
4x III: 3p/1u	o0980051							
AMA~b 126B3		PC25						
6x IV: 1p/1u; III: 4p	o0980052	ZATU028						
AMAR 126B4		PC25						
164x IV: 23p/8u; III: 105p/29u	o0980053	ZATU029						
AMAR.1(N02)		PC25-sq						
2x III: 2p	o0980054							
AMAR×TAR~c 126B5		PC25						
AKA: AMAR×TAR CDLI: AMAR×TAR 1x IV: 1p; III: 1p	o0980055	ZATU030						
AMAR&AMAR 126B6		PC25						
1x IV: 1p	o0980056							
AMAR@g 126B6		PC25-bk						
CDLI: AMAR@g 1x IV: 1p	o0980057							
AN 126B7		PC25						
992x IV: 106p/20u; III: 630p/274u	o0980058	ZATU031						
ANŠE~a 126B8		PC25						
9x IV: 3p/2u; III: 4p/1u	o0980059	ZATU032						
ANŠE~b 126B9		PC25						
32x IV: 1p/1u; III: 21p/9u	o0980060	ZATU032						

ANŠE~c 126BA		PC25						
4x IV: 1p; III: 3p/1u o0980061 ZATU032			126BA			126BA		
ANŠE~e 126BB		PC25						
9x IV: 3p; III: 4p/2u o0980062 ZATU032			126BB					
ANŠE~f 126BC		PC25						
5x III: 5p o0980063 ZATU032			126BC					126BC
ANZU ₂		EDI						
			F222C					
APIN~a 126BD		PC25						
AKA: APIN 230x IV: 20p/5u; III: 154p/65u o0980065 ZATU033			126BD		126BD	126BD	126BD	126BD
APIN~a.APIN~a		PC25-sq						
1x IV: 1p o0980066			F222D					
APIN~b 126BE		PC25						
13x III: 9p/3u o0980067 ZATU033			126BE		126BE		126BE	
APIN~c 126BF		PC25						
2x IV: 1p; III: 1p o0980068 ZATU033			126BF		126BF			
ARARMA _{2~a} 126C0		PC25						
12x III: 7p/5u o0980069 ZATU034			1 F208C					
			126C0					
ARARMA _{2~b}		PC25-sq						
2x IV: 1p; III: 1p o0980070 ZATU034			F2274					
ARATTA		PC25-sq						
1x III: 1p o0980071 ZATU035			F22A1					
ASAL ₂		EDI						
			F24CE					
ASAR 126C1		PC25						
19x III: 17p/2u o0980073 ZATU036			126C1		126C1			
AŠ ₂		UNP						
1x III: 1u o0980074			F240C					
AZ 126C2		PC25						
21x III: 20p/1u o0980075 ZATU038			126C2					
AZU 126C3		PC25						
2x IV: 2p; III: 1p o0980076 ZATU039			126C3					

BA 126C4		PC25							
779x IV: 112p/17u; III: 516p/202u	o0980077	ZATU040							
BAD 126C5		PC25							
104x IV: 19p/3u; III: 74p/23u	o0980078	ZATU041							
BAD&BAD 126C6		PC25							
42x IV: 1p/2u; III: 30p/10u	o0980079	ZATU042							
BAD ₃ ~a 126C7		PC25							
2x III: 2p	o0980080	ZATU044							
BAD ₃ ~b1 126C8		PC25							
4x III: 1p/3u	o0980081	ZATU044							
BAD ₃ ~b2 126C9		PC25							
AKA: EZEM~b×AN 4x III: 3p/1u	o0980082	ZATU044							
BAHAR ₂ ~a 126CA		PC25							
22x IV: 1p/2u; III: 11p/6u	o0980083	ZATU045							
BAHAR ₂ ~b 126CB		PC25							
27x IV: 1p/1u; III: 18p/8u	o0980084	ZATU045							
BAHAR ₂ ~c 126CC		PC25							
19x III: 14p/5u	o0980085	ZATU045							
BALA~a 126CD		PC25							
19x III: 18p/1u	o0980086	ZATU046							
BALA~b 126CE		PC25							
2x IV: 1p; III: 2p	o0980087	ZATU046							
BALAG 126CF		PC25							
20x IV: 7p/1u; III: 14p/3u	o0980088	ZATU047							
BAN~a 126D0		PC25							
17x IV: 8p/1u; III: 10p/2u	o0980089	ZATU048							

BAN~b 126D1		PC25 o0980090 ZATU048						
16x IV: 1u; III: 2p/13u			126D1		126D1		126D1	
BANŠUR~a 126D2		PC25 o0980091 ZATU049						
1x IV: 1p; III: 1p			126D2			126D2		
BANŠUR~a@t 126D3		PC25 o0980092						
1x IV: 1p			126D3					
BANŠUR~b1 126D4		PC25 o0980093 ZATU049						
3x III: 2p/1u			126D4		126D4			
BANŠUR~b2 126D5		PC25 o0980094 ZATU049						
1x III: 1p			126D5		126D5			
BANSUR~c 126D6		PC25 o0980095 ZATU049						
2x III: 2p			126D6		126D6			
BAPPIR~a 126D7		PC25 o0980096 ZATU050						
4x III: 3p/1u			126D7					
BAPPIR~b 126D8		PC25 o0980097 ZATU050						
3x III: 3p			126D8		126D8			
BAPPIR~c 126D9		PC25 o0980098 ZATU050						
1x III: 1p			126D9					
BAPPIR~d 126DA		PC25 o0980099 ZATU050						
6x III: 6p			126DA		126DA		126DA	
BAPPIR~e 126DB		PC25 o0980100 ZATU050						
1x III: 1p			126DB					
BAPPIR~f 126DC		PC25 o0980101 ZATU050						
1x III: 1p			126DC					
BAR 126DD		PC25 o0980102 ZATU051						
426x IV: 27p/13u; III: 288p/113u			126DD		126DD	126DD	126DD	126DD
BAR×URI _{3~a}		NOT o0980103						
BAR×UŠ~a		NOT o0980104						
BARA _{2~a} 126DE		PC25 o0980105 ZATU052						
75x IV: 14p/5u; III: 45p/13u			126DE	126DE	126DE	126DE	126DE	F2093
BARA _{2~b} 126DF		PC25 o0980106 ZATU052						
4x IV: 4p; III: 1p			126DF	126DF		126DF		

BARA₃ 126E0		PC25		126E0		126E0			
18x III: 15p/3u	o0980107	ZATU053							
BAU405 CDLI: UET ₂ .405		EDI		F24EF					
	o0980108								
BIR~a 126E1		PC25		126E1		126E1			
6x IV: 3p; III: 3p/1u	o0980109	ZATU054							
BIR~b 126E2		PC25		126E2		126E2			
1x IV: 1p; III: 1p	o0980110	ZATU054							
BIR~c 126E3		PC25		126E3		126E3			
1x IV: 1p; III: 1p	o0980111	ZATU054							
BIR₃~a 126E4		PC25		1 F2095				F2095	
18x IV: 1p; III: 15p/3u	o0980112	ZATU055		126E4					126E4
BIR₃~b 126E5		PC25		1 F2096				F2096	
7x IV: 3p; III: 4p/3u	o0980113	ZATU055		126E5					
BIR₃~c 126E6		PC25		126E6		126E6			
4x III: 4p	o0980114	ZATU055		1 F2097					F2097
BU-a 126E7		PC25		1 F2098		126E7		F2098	
568x IV: 48p/6u; III: 390p/153u	o0980115	ZATU056		126E7		126E7		126E7	126E7
((BU~a.DU ₆ ~a)&(BU~a.DU ₆ ~a))>UDU~a ZERO									
	o0980116			F2523					F2523
 BU~a+DU₆~a 126E8		PC25		126E8		126E8		126E8	
AKA: BU~a.DU ₆ ~a 61x IV: 3p/1u; III: 47p/10u	o0980117	ZATU059		1 F2099		126E8		F2099	126E8
 BU~a+KI 126E9		PC25		126E9					
1x III: 1p	o0980118								126E9
 BU~a+TU~b 		ZERO							
	o0980119			F2526					F2526
 BU~axA 126EA		PC25		126EA		126EA		126EA	
2x IV: 1p; III: 2p	o0980120	ZATU057							
 BU~a×Giš@t 		UNP							
1x III: 1u	o0980121			F240D					
 BU~a×1(N58) 		UNP							
1x III: 1u	o0980122			F240E					

$ (BU\sim a \& BU\sim a).NA_2\sim a $ 126EB		PC25	 126EB	 F209A	 126EB			
8x IV: 1p; III: 8p o0980123 ZATU058			 F209B					
$ (BU\sim a \& BU\sim a).NA_2\sim b $		DEL	 F209B					
$ (BU\sim a \& BU\sim a).X $		PC25-bk	 F240F					
1x IV: 1p o0980124								
$ (BU\sim a \% BU\sim a).NA_2\sim a @ n $ 126EC		PC25	 126EC	 F209B	 F209C			
AKA: $ (BU\sim a \& BU\sim a).NA_2\sim a @ n $ CDLI: $ (BU\sim a \& BU\sim a).NA_2\sim a @ n $ 2x IV: 2p; III: 1p o0980125			 2 F209C					
$BU\sim b$ 126ED		PC25	 126ED	 126ED	 126ED	 126ED		
14x IV: 2p; III: 12p/1u o0980126 ZATU056								
$ BU\sim b.NA_2\sim a $		UNP	 F222E	 F222E				
1x III: 1u o0980127								
BU_3 126EE		PC25	 126EE	 126EE (a)			 126EE (a)	
AKA: BU ₃ ~a 30x III: 24p/6u o0980128 ZATU060								
$BULUG$ 126EF		PC25	 126EF	 126EF				
4x IV: 2p/1u; III: 2p o0980129 ZATU061								
$BULUG_3$ 126F0		PC25	 126F0	 126F0	 126F0			
35x III: 30p/5u o0980130 ZATU062								
$ BULUG_3.DU_6\sim a $		ZERO	 F222F					 F222F
$BUR\sim a$ 126F1		PC25	 126F1	 126F1	 126F1		 126F1	
37x IV: 1u; III: 27p/9u o0980132 ZATU063								
$BUR\sim b$ 126F2		PC25	 126F2	 126F2				
8x IV: 1p; III: 7p o0980133 ZATU063								
$BUR\sim c$ 126F3		PC25	 126F3	 126F3				
1x IV: 1p; III: 1p o0980134 ZATU063								
$BUR\sim d$ 126F4		PC25	 126F4	 126F4				
1x III: 1p o0980135 ZATU063								
BUR_2 126F5		PC25	 126F5	 126F5	 126F5			
52x IV: 2p/2u; III: 37p/13u o0980136 ZATU064								

DA~a 126F6		PC25							
243x IV: 23p/5u; III: 151p/74u	o0980137	ZATU065							
DA~a.LIŠ		UNP							
1x III: 1u	o0980138								
DA~b 126F7		PC25							
6x IV: 5p; III: 2p	o0980139	ZATU065							
DA~c 126F8		PC25							
2x IV: 2p; III: 2p	o0980140	ZATU065							
DA~d 126F9		PC25							
1x IV: 1p; III: 1p	o0980141	ZATU065							
DAG		EDI							
	o0980142								
DAH 126FA		PC25							
26x IV: 1p; III: 22p/4u	o0980143	ZATU066							
DAM 126FB		PC25							
14x III: 14p	o0980144	ZATU067							
DANNA 126FC		PC25							
9x IV: 1p; III: 3p/5u	o0980145	ZATU068							
DAR~a 126FD		PC25							
25x III: 14p/11u	o0980146	ZATU069							
DAR~a×A 126FE		PC25							
1x III: 1p	o0980147								
DAR~b 126FF		PC25							
27x III: 12p/15u	o0980148	ZATU069							
DAR~c 12700		PC25							
6x III: 4p/2u	o0980149	ZATU069							
DAR~d		UNP							
1x III: 1u	o0980150	ZATU069							
DARA ₃ ~a 12701		PC25							
4x IV: 3p; III: 3p/1u	o0980151	ZATU070							
DARA ₃ ~b 12702		PC25							
1x IV: 1p; III: 1p	o0980152	ZATU070							

DARA ₃ ~c 12703		PC25						
7× IV: 1p; III: 5p/2u o0980153 ZATU070			12703		12703			
DARA ₃ ~c×KAR ₂ 12704		PC25						
3× III: 2p/1u o0980154 ZATU071			12704		1 F209E			F209E
DARA ₃ ~c×(KAR ₂ , ŠE~a) 12705		PC25				12705		
1× IV: 1p; III: 1p o0980155 ZATU072			12705			12705		
DARA ₃ ~d 12706		PC25				12706		
1× III: 1p o0980156 ZATU070			12706		12706			
DARA ₃ ~d×(KAR ₂ , ŠE~a) 12707		PC25						
1× III: 1p o0980157 ZATU072			12707					
DARA ₃ ~d×KAR ₂ -b 12708		PC25				12708		
AKA: DARA ₃ ~d×KAR ₂ DARA ₃ ~d×KAR ₂ CDL: DARA ₃ ~d×KAR ₂ 8× IV: 2p; III: 5p/3u o0980158 ZATU071			1 F209F		12708		12708	F209F
DARA ₄ ~a1 12709		PC25				12709		
31× IV: 2p; III: 23p/4u o0980159 ZATU073			12709		12709			12709
DARA ₄ ~a2 1270A		PC25				1270A		
3× IV: 3p; III: 2p o0980160 ZATU073			1270A			1270A		
DARA ₄ ~a3 1270B		PC25				1270B		
2× IV: 1p/1u o0980161 ZATU073			1270B		1270B			
DARA ₄ ~b 1270C		PC25				1270C	1270C	
6× IV: 3p/1u; III: 2p/1u o0980162 ZATU073			1270C		1270C			
DARA ₄ ~c 1270D		PC25						
1× III: 1p o0980163 ZATU073			1270D					1270D
DARA ₄ ~c1 1270E		PC25				1270E		
19× IV: 1p; III: 9p/9u o0980164 ZATU073			1270E		1270E			1270E
DARA ₄ ~c2 1270F		PC25				1270F		
27× IV: 3p; III: 17p/7u o0980165 ZATU073			1270F					

DARA ₄ ~c3 12710		PC25							
5× III: 4p/1u	o0980166	ZATU073		12710					
DARA ₄ ~c4 12711		PC25							
11× III: 7p/4u	o0980167	ZATU073		12711					
DARA ₄ ~c5 12712		PC25							
1× III: 1p	o0980168	ZATU073		12712					
DARA ₄ ~d 12713		PC25							
1× III: 1p	o0980169	ZATU073		12713					12713
DI 12714		PC25							
128× IV: 16p/3u; III: 86p/35u	o0980170	ZATU075		12714	12714	12714	12714	12714	12714
DI@t 12715		PC25							
3× IV: 1p; III: 2p/1u	o0980171			12715	12715				
DIB 12716		PC25							
5× IV: 2p; III: 4p	o0980172	ZATU076		12716	12716	F20A1	12716		F20A2
DILMUN 12717		PC25							
34× IV: 1p; III: 26p/8u	o0980173	ZATU077		12717	12717	12717	F20A3		
DIM~a 12718		PC25							
56× IV: 5p; III: 33p/22u	o0980174	ZATU078		12718	12718		12718	F20A5	12718
DIM~a×GU		EDI							
	o0980175			F24F3					
DIM~a×X		EDI							
	o0980176			F24F4					
DIM~b 12719		PC25							
4× IV: 2p; III: 4p	o0980177	ZATU078		12719	12719		12719		
DIM~c 1271A		PC25							
21× IV: 2p; III: 17p/2u	o0980178	ZATU078		1271A	1271A	1271A			
DIN 1271B		PC25							
97× IV: 32p/13u; III: 47p/20u	o0980179	ZATU079		1271B	1271B	1271B	1271B	1271B	1271B

DIN×1(N58) 1271C		PC25									1271C
AKA: DIN+1(N57) 1x III: 1p		o0980180									
DIN@t 1271D		PC25									
3x IV: 1p/1u; III: 1p/1u		o0980181	ZATU080	1271D							
DU 1271E		PC25							1271E		
481x IV: 20p/10u; III: 304p/153u		o0980182	ZATU082	1271E		1271E	1271E	1271E	1271E	1271E	
DU×1(N58@t) 1271F		PC25							1271F		
AKA: DU×DIŠ CDL: DU×DIŠ 3x III: 3p		o0980183		1271F							
DU@g 12720		PC25							12720		
4x III: 1p/3u		o0980184		12720							
DU _e ~ ^a 12721		PC25	 ¹ F20A6	 12721	 ² F20A7	 ³ F20A8					
15x IV: 1p; III: 14p/1u		o0980185	ZATU083	12721							
DU _e ~ ^a ×1(N58) 12722		PC25	 12722								
AKA: DU _e ~ ^a ×DIŠ CDL: DU _e ~ ^a ×DIŠ 1x III: 1p		o0980186		12722							
DU _e ~ ^a @n		ZERO			F2539						
		o0980187									
DU _e ~ ^b 12723		PC25		12723				12723			
31x IV: 1p; III: 27p/3u		o0980188	ZATU083	12723							
DU _e ~ ^c 12724		PC25		12724							
1x IV: 1p; III: 1p		o0980189	ZATU083	12724							
DU _f 12725		PC25		12725			12725				
7x III: 4p/3u		o0980190	ZATU084	12725							
DU _g ~ ^a 12726		PC25		12726							
1x IV: 1p		o0980191	ZATU085	12726							
DU _g ~ ^b 12727		PC25		12727							
2x IV: 2p; III: 1p		o0980192	ZATU085	12727	 ¹ F20A9						

DU₈~c 12728		PC25 o0980193 ZATU085						
40× IV: 6p; III: 34p/5u			12728			12728	12728	
 DU₈~c×AB₂ 12729		PC25 o0980194						
1× III: 1p			12729					12729
 DU₈~c×AMAR 1272A		PC25 o0980195						
8× III: 8p			1272A					1272A
 DU₈~c×HI 1272B		PC25 o0980196						
3× IV: 1p; III: 1p			1272B			1272B		
 DU₈~c×UDU~a 1272C		PC25 o0980197						
8× III: 4p/4u			1272C			1272C		
 DU₈~c×X 		ZERO o0980198						
DU₈~c@g 1272D		PC25 o0980199 ZATU698						
AKA: DU ₈ @g~c 21× IV: 1u; III: 16p/4u			1272D					
DUB~a 1272E		PC25 o0980200 ZATU086						
155× IV: 5p/2u; III: 104p/45u			1272E		1272E	1272E	1272E	1272E
DUB~b 1272F		PC25 o0980201 ZATU086						
69× IV: 36p/4u; III: 48p/8u			1272F					
DUB~b@r		UNP o0980202						
1× IV: 1u			F252A					
DUB~c 12730		PC25 o0980203 ZATU086						
1× IV: 1p			12730					
DUB~d 12731		PC25 o0980204 ZATU086						
4× IV: 1p/1u; III: 2p			12731			12731		
DUB~e 12732		PC25 o0980205 ZATU086						
1× III: 1p			12732					
DUB~f 12733		PC25 o0980206 ZATU086						
4× III: 4p			12733					

DUB~h 12734		PC25								12734
1x III: 1p	o0980207	ZATU086								
(DUB@n~a×1(N58))~a 12735		PC25								
AKA: (DUB×DIŠ)~a CDLI: (DUB×DIŠ)~a 5x IV: 5p; III: 5p	o0980208	ZATU087								
(DUB@n~a×1(N58))~b 12736		PC25					12736		12736	
AKA: (DUB×DIŠ)~c CDLI: (DUB×DIŠ)~c 1x III: 1p	o0980209	ZATU087								
DUB@n~b×1(N58)~a 12737		PC25							12737	
AKA: (DUB×DIŠ)~b CDLI: (DUB×DIŠ)~b 1x IV: 1p; III: 1p	o0980210	ZATU087								
DUB ₂ 12738		PC25					12738			
2x III: 2p	o0980211									
DUG~a 12739		PC25					12739		12739	
252x IV: 30p/10u; III: 193p/30u	o0980212	ZATU088					12739		12739	
DUG~a×HI		EDI								
		o0980213								
DUG~a×KASKAL		UNP								
1x III: 1u	o0980214	ZATU103								
DUG~a×KU ₆ ~a 1273A		PC25								
1x III: 1p	o0980215	ZATU104								1273A
DUG~a×LAM~b		UNP								
1x III: 1u	o0980216	ZATU106								
DUG~a×NAGA~a 1273B		PC25								
1x III: 1p	o0980217	ZATU109								1273B
DUG~a×U ₂ ~a 1273C		PC25								
1x III: 1p	o0980218	ZATU122								1273C
DUG~a×U ₂ ~b 1273D		PC25								
2x IV: 1p; III: 1p/1u	o0980219	ZATU122								
DUG~a×X		EDI								
		o0980220								

DUG~a×1(N57) 1273E 9× IV: 1u; III: 8p		PC25 o0980221 ZATU091						
DUG~b 1273F 130× IV: 37p/12u; III: 79p/23u		PC25 o0980222 ZATU088	1 F20B1 			F20B1 1273F		
DUG~b×AB ₂ 12740 2× IV: 1p; III: 2p		PC25 o0980223 ZATU089				12740		
DUG~b×ANŠE~b 12741 5× III: 5p		PC25 o0980224 ZATU090				12741		
DUG~b×ANŠE~d 12742 2× III: 2p		PC25 o0980225 ZATU090				12742		
DUG~b×BALA~a 12743 10× III: 10p		PC25 o0980227 ZATU094				12743		
DUG~b×BIR ₃ ~c 12744 2× III: 1p/1u		PC25 o0980228 ZATU095				12744		
DUG~b×DIN 12745 18× IV: 1p/4u; III: 12p/1u		PC25 o0980229 ZATU096	1 F20B2 			12745		
(DUG~b×DIN)@r 12746 AKA: DUG~b@r×DIN 1× IV: 1p		PC25 o0980230				12746		
DUG~b×E~a 1× III: 1u		UNP o0980231				F2414		
DUG~b×GA~a 12747 2× III: 1p/1u		PC25 o0980232 ZATU097				12747		
DUG~b×GA~b 12748 2× III: 2p		PC25 o0980233 ZATU097				12748		
DUG~b×GEŠTU~a 12749 6× III: 5p/1u		PC25 o0980234 ZATU098	1 F20B3 			12749		
DUG~b×GEŠTU~b 1274A 1× III: 1p		PC25 o0980235 ZATU098				1274A		
DUG~b×GI ₆ 1274B 3× III: 3p		PC25 o0980236 ZATU099				1274B		

DUG~b×GIŠ 1274C		PC25 ZATU100						
7× III: 6p/1u	o0980237							
DUG~b×HI 1274D		PC25 ZATU101						
9× IV: 2p/1u; III: 7p	o0980238							
DUG~b×HI@g~a 1274E		PC25 ZATU102						
7× IV: 7p; III: 7p	o0980239							
DUG~b×KASKAL 1274F		PC25 ZATU103						
10× III: 10p	o0980240							
DUG~b×KU ₆ ~a 12750		PC25 ZATU104						
2× III: 2p	o0980241							
DUG~b×KUR~a 12751		PC25 ZATU105						
3× III: 3p	o0980242							
DUG~b×(KUR~a.X)		PC25-bk o0980243						
1× III: 1p								
DUG~b×KUR~b 12752		PC25 ZATU105						
2× III: 1p/1u	o0980244							
DUG~b×KUR@g~a 12753		PC25 ZATU107						
4× III: 4p	o0980245							
DUG~b×LAM~a 12754		PC25 ZATU106						
4× III: 3p/1u	o0980246							
DUG~b×MAŠ 12755		PC25 ZATU108						
16× IV: 2p/2u; III: 13p/1u	o0980247							
DUG~b×NAGA~a 12756		PC25 ZATU109						
9× III: 6p/3u	o0980248							
DUG~b×NAM ₂ 12757		PC25 ZATU109						
1× III: 1p	o0980249							
DUG~b×(NI~a@g.ZATU779)		UNP o0980250						
1× III: 1u								
DUG~b×SA~a 12758		PC25 ZATU110						
6× III: 5p/1u	o0980251							
DUG~b×(SA~a.GI) 12759		PC25 o0980252						
CDLI: *DUG~b+SA~a+GI 4× III: 4p		ZATU111						

DUG~b×SI ₄ ~a 1275A 6× III: 6p		o0980253	ZATU112	PC25						
DUG~b×(SI ₄ ~a.X) 1275B 1× III: 1p		o0980254		PC25-bk						
DUG~b×SIG ₂ ~a1 1275C 3× III: 3p		o0980255	ZATU113	PC25						
DUG~b×SIG ₂ ~a2 1275D 2× III: 2p		o0980256	ZATU113	PC25						
DUG~b×SIG ₇ 1275E 20× III: 19p/1u		o0980257	ZATU114	PC25						
DUG~b×SUHUR 1275F 1× III: 1p		o0980258	ZATU115	PC25						
DUG~b×SUKUD~d 1275G 1× III: 1u		o0980259	ZATU116	UNP						
DUG~b×ŠAH ₂ ~a 1275H 4× III: 4p		o0980260	ZATU117	PC25						
DUG~b×ŠE~a 12760 18× IV: 5p; III: 16p		o0980261	ZATU118	PC25						
¹ DUG~b×(ŠE~a.NAM ₂) 12761 7× III: 7p		o0980262	ZATU119	PC25						
² DUG~b×TAK ₄ ~a 12762 5× III: 4p/1u		o0980263	ZATU120	PC25						
DUG~b×(TAK ₄ ~a.SA~a) 12763 2× III: 1p/1u		o0980264		PC25						
DUG~b×(TAK ₄ ~a.SAL) 12764 1× III: 1p		o0980265		PC25						
DUG~b×TI 12765 7× III: 7p		o0980266	ZATU121	PC25						
DUG~b×U ₂ ~a 12766 2× III: 1p/1u		o0980267	ZATU122	PC25						

DUG~b×U ₂ ~b 12767		PC25	 1 F20B8 2 F20B9 12767 3 F20BA	 F20BA				
2× III: 1p/1u o0980268 ZATU122								
DUG~b×(UDU~a×TAR~b) 12768		PC25						 12768
2× III: 2p o0980269								
DUG~b×UH ₃ ~a 12769		PC25						
3× III: 3p o0980270 ZATU123								
DUG~b×UH ₃ ~a@t 1276A		PC25						
1× III: 1p o0980271								
DUG~b×X		PC25-bk	 1 F20BC F20BB F20BB	 F20BC	 F20BB			
128× IV: 3p/3u; III: 110p/14u o0980272								
DUG~b×ZATU707~a		UNP						
1× III: 1u o0980273								
DUG~b×ZATU764 1276B		PC25						
2× III: 2p o0980274 ZATU124								
DUG~b×ZATU779 1276C		PC25						
4× III: 2p/2u o0980275								
DUG~b×ZATU780 1276D		PC25						
2× III: 2p o0980276								
DUG~b×ZATU781 1276E		PC25						
3× III: 3p o0980277								
DUG~b×(ZATU789.SA~a) 1276F		PC25						
1× III: 1p o0980278								
DUG~b×1(N57) 12770		PC25	 1 F20BD 12770	 F20BD	 12770 F20BD			
10× IV: 5p/1u; III: 6p/1u o0980279 ZATU091								
DUG~b×(1(N57).KU ₃ ~a) 12771		PC25						
3× III: 3p o0980280 ZATU092								
DUG~b×3(N57)		UNP						
1× III: 1u o0980281								

DUG~b×1(N58) 12772		PC25 1× III: 1p o0980282							
(DUG~b&DUG~b)×1(N58) 12773		PC25							
AKA: DUG~b&(DUG~b×1(N58)) 1× IV: 1p o0980283									
DUG~c 12774		PC25 224× IV: 42p/20u; III: 138p/32u o0980284	 1 F20BE 2 12774			 F20BE 12774			
ZATU088									
DUG~c×1(N57) 12775		PC25 69× IV: 18p/7u; III: 42p/6u o0980285	 1 F20BF 2 F20CO 			 12775			
ZATU091									
DUG~c@t 12776		PC25 1× IV: 1p o0980286							
ZATU088									
DUG~d 12777		PC25 4× III: 4p o0980287	 12777			 1 F20C1	 (e) F20C1		
ZATU088									
DUGUD 12778		PC25 1× III: 1p o0980288	 12778						
ZATU125									
DUR~a 12779		PC25 24× IV: 20p/1u; III: 11p/1u o0980289							
ZATU126									
DUR~b 1277A		PC25 49× IV: 1p; III: 30p/15u o0980290	 1277A	 1 F20C2			 1277A	 F20C2	
ZATU126									
DUR ₂ 1277B		PC25 75× IV: 4p; III: 55p/17u o0980291	 1277B				 1277B	 1277B	
ZATU127									
E~a 1277C		PC25 86× IV: 1p; III: 79p/6u o0980292							
ZATU128									
E~b 1277D		PC25 24× IV: 1u; III: 19p/4u o0980293							
ZATU128									
E~c 1277E		PC25 1× IV: 1p; III: 1p o0980294					 1277E		
ZATU128									

E~d		UNP							
1x IV: 1u	o0980295	ZATU128	F241A						
E~e		EDI							
	o0980296		F24D0						
E ₂ ~a 1277F		PC25							
AKA: E ₂ 608x			1277F		1277F	1277F	1277F	1277F	
IV: 14p/11u; III: 449p/141u	o0980297	ZATU129							
E ₂ ~a.LIŠ		UNP							
1x III: 1u	o0980298		F2232						
E ₂ ~a×3(N58)		UNP							
1x III: 1u	o0980299		F241B						
E ₂ ~a×1(N58@t) 12780		PC25							
AKA: E ₂ ~a×1(N57)@t CDLI: E ₂ ~a×1(N57)@t 38x III: 38p	o0980300	ZATU131	12780						
E ₂ ~b 12781		PC25							
201x			12781		12781	12781	12781	12781	
IV: 5p/1u; III: 105p/88u	o0980301	ZATU129							
E ₂ ~b.LIŠ		UNP							
1x III: 1u	o0980302		F2234						
E ₂ ~b×1(N58@t) 12782		PC25							
AKA: E ₂ ~b×1(N57)@t CDLI: E ₂ ~b×1(N57)@t 6x III: 5p/1u	o0980303	ZATU131	12782		12782				
E ₂ ~c 12783		PC25							
1x III: 1p	o0980304	ZATU129	12783						
E ₂ ~d 12784		PC25							
2x III: 2p	o0980305	ZATU129	12784						
E ₃ ~a		UNP							
2x IV: 1u; III: 1p/1u	o0980306	ZATU132	F2231						
E ₃ ~b 12785		PC25							
1x III: 1p	o0980307	ZATU132	12785						
EDIN 12786		PC25							
5x III: 5p	o0980308	ZATU133	12786		12786				
EN~a 12787		PC25							
AKA: EN 1784x			1 F20C3			2 F20C4			3 F20C5
IV: 120p/47u; III: 1171p/487u	o0980309	ZATU134	12787						

EN~b 12788		PC25	 12788	 F20C6	 F20C6			
79× IV: 63p/11u; III: 40p/4u	o0980310	ZATU134	1 F20C6					
EN~b@t 12789		PC25	 12789	 12789		 12789		
1× IV: 1p; III: 1p	o0980311							
EN~c 1278A		PC25	 1278A	 F20C7		 1278A	 1278A	
15× III: 15p	o0980312	ZATU134						
EN~c&EN~c		UNP	 1278A	 F241C				
1× IV: 1u	o0980313							
EN~e		UNP	 F241D	 F241D				
1×	o0980314	ZATU134						
EN@g~a 1278B		PC25	 1278B			 1278B		
2× IV: 2p; III: 1p	o0980315	ZATU137						
EN@g~b 1278C		PC25	 1278C			 1278C		
11× IV: 9p/2u; III: 4p	o0980316	ZATU137						
EN ₂ 1278D		PC25	 1278D			 1278D	 1278D	
44× IV: 3p/1u; III: 22p/20u	o0980317	ZATU138						
EN ₂ .E ₂ ~a		PC25-sq	 F2237	 F2237				
4× III: 1p/3u	o0980318							
EN ₂ .E ₂ ~b		PC25-sq	 F2238	 F2238			 F2238	
AKA: EN ₂ ×E ₂ ~b 21× III: 7p/14u	o0980319							
ENDIB		PC25-sq	 F2236	 F2236	 F2236			
6× III: 6p	o0980320	ZATU139						
ENGIZ		PC25-sq	 F20C8	 1 F20C9	 F20C8	 F20C8	 F20C8	
21× III: 20p/1u	o0980321	ZATU140		 2 F20CA				
ENKUM		PC25-sq	 F20CB	 1 F20CC	 F20CB			
13× III: 9p/4u	o0980322	ZATU141						
ENLIL		ZERO	 F2235	 F2235	 F2235			
	o0980323	ZATU142						
ENSI		EDI	 F224E	 F224E				
	o0980324							

ENSI ₂		EDI						
	o0980325		F2257					
ERIM~a 1278E 218x IV: 45p/24u; III: 115p/59u		PC25						
	o0980326	ZATU143	1278E	1278E	1278E	1278E	1278E	1278E
ERIM~b1 1278F 1x IV: 1p		PC25						
	o0980327	ZATU143	1278F	1278F		1278F		
ERIM~b2 12790 2x IV: 1p; III: 1p		PC25						
	o0980328	ZATU143	12790	12790	12790	12790		
ERIM ₂ 12791 148x IV: 29p/4u; III: 113p/18u		PC25-sq						
	o0980329	ZATU144	F2255	F2255	F2255			F2255
ERIN 12791 148x IV: 29p/4u; III: 113p/18u		PC25						
	o0980330	ZATU145	12791	12791	12791	12791	12791	12791
EŠDA 12792 126x IV: 24p/1u; III: 92p/27u		PC25						
	o0980331	ZATU147	12792	12792	12792	12792	12792	
EŠDA×TAR~a 12793 AKA: EŠDA×TAR CDLI: EŠDA×TAR 1x III: 1p		PC25						
	o0980332	ZATU148	12793	12793		12793		
EŠGAR 12794 22x IV: 6p; III: 19p/3u		PC25						
	o0980333	ZATU149	12794	12794		12794		
EZEN~a 12795 22x IV: 9p/3u; III: 12p/4u		PC25						
	o0980334	ZATU150	12795	12795	12795	12795		
EZEN~a×EN~a 1x IV: 1u		UNP						
	o0980335	ZATU151	F2420	F2420				
EZEN~a×EN~b 12796 2x IV: 1p; III: 2p		PC25						
	o0980336	ZATU151	12796	12796		12796		
EZEN~a×(HI×1(N57).AN) 12797 AKA: EZEN~a×(HI.1(N57).AN) CDLI: EZEN~a×(HI.1(N57).AN) 1x III: 1p		PC25						
	o0980337		12797	12797			12797	
EZEN~a×KAB 12798 1x IV: 1p; III: 1p		PC25						
	o0980338	ZATU152	12798	12798		12798		

EZEN~a×KAŠ~b 12799 2x III: 2p		o0980339	PC25		12799							12799
EZEN~a×KI 1279A AKA: EZEN~a+KI 1x III: 1p		o0980340	PC25		1279A							
EZEN~a×LA~e o0980341		EDI			1 F20CF							
EZEN~a×NIM~b2 1279B 1x IV: 1p		o0980342	PC25		1279B							
EZEN~a×NIMGIR 1279C 2x IV: 1p; III: 1p/1u		o0980343	PC25		1279C			1279C				
EZEN~a×RAD~a 1279D 1x IV: 1p; III: 1p		o0980344	PC25		1279D			1279D				
EZEN~a×SAG 1x III: 1u		UNP			F241E							
EZEN~a×SU~a 1279E 8x III: 5p/3u		o0980346	PC25		1279E			1279E				
EZEN~a×(U ₂ -b.A) 1279F 5x IV: 1u; III: 1p/3u		o0980347	PC25		1279F							
EZEN~a×U ₄ 127A0 1x IV: 1p		o0980348	PC25		127A0							
EZEN~a×X 2x IV: 1p; III: 1u		PC25-bk			F241F							
EZEN~b 127A1 87x IV: 1p; III: 68p/18u		o0980350	PC25		127A1			127A1		127A1		127A1
EZEN~b×ŠE~a@t 127A2 23x III: 19p/4u		o0980351	PC25		127A2							
EZEN~b×6(N57) 127A3 1x III: 1p		o0980352	PC25		1 F20D0			127A3				

EZEN~b@t 127A4		PC25							
AKA: EZEM~c EZEN~c CDL: EZEN~b@t 9x IV: 3p; III: 4p/3u o0980353 ZATU150			127A4			127A4			
EZEN~c		DEL							
			F24D1						
EZINU~a 127A5		PC25							
12x IV: 1u; III: 5p/6u o0980354 ZATU158			127A5		127A5				127A5
EZINU~b 127A6		PC25							
1x III: 1p o0980355 ZATU158			127A6						
EZINU~c 127A7		PC25							
6x IV: 2u; III: 4p o0980356 ZATU158			127A7						
EZINU~d 127A8		PC25							
10x IV: 4p/1u; III: 8p/1u o0980357 ZATU158			127A8		127A8	127A8			
GA~a 127A9		PC25							
339x IV: 38p/15u; III: 216p/93u o0980358 ZATU159			1 F20D3	2 F20D4	3 F20D5	4 F20D6			
GA~a.ZATU753		PC25-sq							
85x IV: 1u; III: 63p/21u o0980359 ZATU161			1 F20D1	2 F20D2					
GA~a×X		ZERO							
			F24F7						
GA~b 127AA		PC25							
25x III: 25p o0980361 ZATU159			127AA		127AA				
GA~c 127AB		PC25							
4x III: 4p o0980362 ZATU159			127AB		127AB				
GA~c×KASKAL 127AC		PC25							
2x III: 2p o0980363			127AC						
GA~c×1(N14) 127AD		PC25							
1x III: 1p o0980364 ZATU160			127AD		127AD				

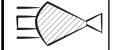
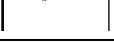
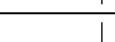
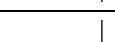
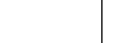
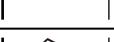
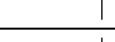
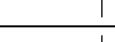
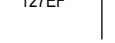
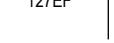
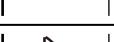
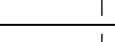
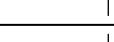
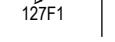
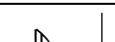
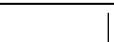
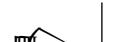
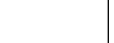
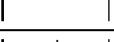
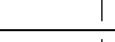
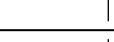
GA ₂ ~a1 127AE		PC25							
111x IV: 11p/2u; III: 80p/18u	o0980365	ZATU162							
GA ₂ ~a1×A 127AF		PC25							
3x IV: 1p; III: 2p	o0980366								
GA ₂ ~a1×E ₂ ~a 127B0		PC25							
AKA: GA ₂ ~a1×E ₂ ~a 1x III: 1p	o0980367								
GA ₂ ~a1×EN~a		UNP							
4x III: 3u	o0980368								
GA ₂ ~a1×EN~b 127B1		PC25							
1x IV: 1p; III: 1p	o0980369								
GA ₂ ~a1×GEŠTU~a 127B2		PC25							
1x III: 1p	o0980370								
GA ₂ ~a1×GEŠTU~c3 127B3		PC25							
1x III: 1p	o0980371								
GA ₂ ~a1×GEŠTU~c5 127B4		PC25							
10x III: 10p	o0980372								
GA ₂ ~a1×GIR~a 127B5		PC25							
5x III: 5p	o0980373	ZATU167							
GA ₂ ~a1×(GIR~a.KU ₆ ~a) 127B6		PC25							
1x III: 1p	o0980374								
GA ₂ ~a1×GIŠ@t 127B7		PC25							
1x IV: 1p; III: 1p	o0980375	ZATU168							
GA ₂ ~a1×GU ₄		EDI							
	o0980376								
GA ₂ ~a1×HAL 127B8		PC25							
1x IV: 1p; III: 1p	o0980377								
GA ₂ ~a1×HI 127B9		PC25							
5x IV: 1p/2u; III: 3p	o0980378	ZATU170							
GA ₂ ~a1×(HI.SUHUR)		UNP							
1x IV: 1u	o0980379	ZATU171							
GA ₂ ~a1×KU ₃ ~a 127BA		PC25							
1x III: 1p	o0980380	ZATU172							
GA ₂ ~a1×KU ₆ ~a 127BB		PC25							
13x IV: 3p/1u; III: 10p/1u	o0980381	ZATU173							

GA ₂ ~a1×(KU ₆ ~a+KU ₆ ~a) 127BC		PC25								
CDLI: GA ₂ ~a1×(KU ₆ ~a.KU ₆ ~a) 1× III: 1p	o0980382	ZATU174								
GA ₂ ~a1×LAGAB~b 127BD		PC25								
1× IV: 1p	o0980383									
GA ₂ ~a1×MAŠ 127BE		PC25								
1× III: 1p	o0980384	ZATU176								
GA ₂ ~a1×NAGA~a 127BF		UNP								
1× III: 1u	o0980385	ZATU177		F2422						
GA ₂ ~a1×NIM~b1 AKA: GA ₂ ~a2×NIM~b1 CDLI: GA ₂ ~a2×NIM~b1 1× III: 1u	o0980386									
GA ₂ ~a1×NUN~a 127C0		EDI								
1× III: 1p	o0980387			F24F9						
GA ₂ ~a1×PAD~b 127BF		PC25								
1× III: 1p	o0980388									
GA ₂ ~a1×PAP~a 127C0		PC25								
1× III: 1p	o0980389			127C0						
GA ₂ ~a1×SU~a 127C1		PC25								
1× III: 1p	o0980390			127C1						
GA ₂ ~a1×SUHURI 127C2		PC25								
5× IV: 4p; III: 4p	o0980391	ZATU179		127C2						
GA ₂ ~a1×SUKUD 127C3		PC25								
9× IV: 5p/2u; III: 5p/2u	o0980392	ZATU180		127C3			127C3			
GA ₂ ~a1×((SUKUD+SUKUD)-a) AKA: GA ₂ ~a1×(SUKUD&SUKUD)-a CDLI: GA ₂ ~a1×((SUKUD&SUKUD)-a) 1× IV: 1u	o0980393									
GA ₂ ~a1×((SUKUD+SUKUD)-b) AKA: GA ₂ ~a1×(SUKUD&SUKUD)-b CDLI: GA ₂ ~a1×((SUKUD&SUKUD)-b) 1× III: 1u	o0980394									
GA ₂ ~a1×SUMAŠ 127C4		PC25								
1× IV: 1p; III: 1p	o0980395	ZATU181		127C4						
GA ₂ ~a1×ŠA 127C5		PC25								
1× III: 1p	o0980396			127C5						
GA ₂ ~a1×TI 127C6		PC25								
3× III: 3p	o0980397			127C6						

 GA₂~a1×U₄ 127C7 13× III: 9p/4u		PC25 o0980398 ZATU183	 127C7	 127C7	 127C7			
 GA₂~a1×X 14× IV: 4p; III: 12p/1u		PC25-bk o0980399	 F20D7 1 F20D8	 F20D7	 F20D7	 F20D7	 F20D7	
 GA₂~a1×1(N14) 127C8 3× IV: 2p; III: 3p		PC25 o0980400 ZATU182	 127C8	 127C8		 127C8		
 GA₂~a1×1(N57) 127C9 3× IV: 3p; III: 1p		PC25 o0980401 ZATU164	 127C9	 127C9		 127C9		
GA₂~a2 127CA 37× III: 13p/24u		PC25 o0980403 ZATU162	 127CA	 127CA				
 GA₂~a2×GU₄ 127CB 4× III: 3p/1u		PC25 o0980404	 127CB	 127CB				
 GA₂~a2×NI~a 127CC 1× IV: 1p		PC25 o0980405 ZATU178	 127CC	 127CC				
 GA₂~a2×NI~b 1× III: 1u		UNP o0980406 ZATU178	 F2427	 F2427				
 GA₂~a2×SUHURI 127CD 1× IV: 1p		PC25 o0980407 ZATU179	 127CD	 127CD				
 GA₂~a2×ŠE₃ 127CE 3× III: 3p		PC25 o0980408	 127CE	 127CE		 127CE		
 GA₂~a2×(ŠE₃,GU₄) 127CF AKA: GA ₂ ~a2×(GU ₄ ,ŠE ₃) CDLI: GA ₂ ~a2×(GU ₄ ,ŠE ₃) 10× III: 9p/1u		PC25 o0980409 ZATU169	 127CF	 127CF				
 GA₂~a2×X 1× III: 1p		PC25-bk o0980410	 F2428	 F2428				
 GA₂~a2×3(N57) 1× III: 1u		UNP o0980411	 F2542	 F2542				
GA₂~a3 127D0 1× III: 1p		PC25 o0980412 ZATU162	 127D0	 127D0	 127D0	 127D0		
 GA₂~a3×X 1× IV: 1p; III: 1p		PC25-bk o0980413	 F2429	 F2429				
GA₂~a4 127D1 1× IV: 1p; III: 1p		PC25 o0980414 ZATU162	 127D1	 127D1		 127D1		
GA₂~b 127D2 18× IV: 9p/1u; III: 15p		PC25 o0980415 ZATU162	 127D2	 127D2	 127D2	 127D2		

GA ₂ ~b×DUB~a 127D3		PC25 o0980416 ZATU166	 127D3  F20D9		F20D9	 127D3			
11× IV: 1p/2u; III: 6p/3u									
GA ₂ ~b×DUB~b 127D4		PC25 o0980417 ZATU166	 127D4		127D4				
1× IV: 1p; III: 1p									
GA ₂ ~b×KU ₃ ~a		UNP o0980418 ZATU172	 F242A						
1× III: 1u									
GA ₂ ~b×KU ₆ ~a 127D5		PC25 o0980419 ZATU173	 127D5						 127D5
1× III: 1p									
GA ₂ ~b×NUN~b		UNP o0980420	 F252E						
1×									
GA ₂ ~b×ZATU659 127D6		PC25 o0980421	 127D6						
1× III: 1p									
GA ₂ ~c 127D7		PC25 o0980422 ZATU162	 127D7						
1× III: 1p									
GA'AR~a1 127D8		PC25 o0980423 ZATU184	 127D8	 127D8	 127D8				
44× IV: 1u; III: 42p/1u									
GA'AR~a2 127D9		PC25 o0980424 ZATU184	 127D9						
17× IV: 1p/1u; III: 11p/4u									
GA'AR~b1 127DA		PC25 o0980425 ZATU184	 127DA	 127DA					
2× IV: 1p; III: 2p									
GA'AR~b2 127DB		PC25 o0980426 ZATU184	 127DB						
3× IV: 2p; III: 1p									
GADA~a 127DC		PC25 o0980427 ZATU186	 127DC	 127DC	 127DC				
122× IV: 12p/11u; III: 70p/30u									
GADA~b		UNP o0980428 ZATU186	 F242B						
1× IV: 1u; III: 1p									
GADA~b@g 127DD		PC25 o0980429 ZATU187	 127DD						
8× IV: 2p/4u; III: 3p/1u									
GAL~a 127DE		PC25 o0980430 ZATU188	 127DE	 127DE	 127DE	 127DE			
1236× IV: 54p/12u; III: 930p/261u									
GAL~b 127DF		PC25 o0980431 ZATU188	 127DF	 127DF					
11× IV: 3p/2u; III: 6p									

GALGA~a 127E0		PC25						
12x III: 12p	o0980432	ZATU189						
GALGA~b		UNP						
3x III: 3u	o0980433	ZATU189						
GAN~a 127E1		PC25	 1 F20DA	 1 F20DA	 1 F20DA	 1 F20DA	 1 F20DA	 1 F20DA
50x IV: 3p; III: 39p/9u	o0980434	ZATU190	 1 F20DA	 1 F20DA	 1 F20DA	 1 F20DA	 1 F20DA	 1 F20DA
GAN~b 127E2		PC25	 1 F20DB	 2 F20DC	 3 F20DD	 1 F20DB	 1 F20DB	 1 F20DB
40x IV: 6p/1u; III: 28p/8u	o0980435	ZATU190	 1 F20DB	 1 F20DB	 1 F20DB	 1 F20DB	 1 F20DB	 1 F20DB
GAN~c 127E3		PC25	 1 F20DE	 1 F20DE	 1 F20DE	 1 F20DE	 1 F20DE	 1 F20DE
40x III: 24p/16u	o0980436	ZATU190	 1 F20DE	 1 F20DE	 1 F20DE	 1 F20DE	 1 F20DE	 1 F20DE
GAN~c×DIN 127E4		PC25			 (b)			
1x III: 1p	o0980437				 (b)			
GAN~c×HI 127E5		PC25						
1x IV: 1p	o0980438							
GAN~c×(HI.DIN) 127E6		PC25						
2x IV: 2p	o0980439	ZATU191						
GAN~c×KAŠ~c 127E7		PC25						
2x III: 2p	o0980440							
GAN~c×(KUR~a.A) 127E8		PC25						
1x III: 1p	o0980441							
GAN~c×LAGAB~b 127E9		PC25						
2x IV: 1p; III: 2p	o0980442	ZATU192						
GAN~c×NE~a		UNP						
3x III: 3u	o0980443	ZATU193						
GAN~c×SIG ₇ 127EA		PC25						
1x III: 1p	o0980444							
GAN~c×ŠE~a		UNP						
4x III: 4u	o0980445	ZATU194						
GAN~c×ŠE ₃ @t		UNP						
1x III: 1u	o0980446							

 GAN~c×X 	PC25-bk							
3× IV: 1p; III: 2p/1u	o0980447							
 GAN~c×ZATU777 	PC25							
127EB								
1× III: 1p	o0980448							
 GAN~c×(4(N57).GAR) 	PC25							
127EC								
1× III: 1p	o0980449							
GAN-d	EDI							
	o0980450							
 GAN~d×GEŠTU~a 	PC25							
127ED								
1× III: 1p	o0980451							
 GAN~d×HI 	EDI							
	o0980452							
GAN₂	PC25							
127EE								
270× IV: 10p/2u; III: 190p/65u	o0980453	ZATU195						
GAR	PC25							
127EF								
373× IV: 44p/28u; III: 241p/73u	o0980454	ZATU196						
GAR@g~a	PC25							
127F0								
4× IV: 4p; III: 4p	o0980455	ZATU197						
GAR@g~b	PC25							
127F1								
3× III: 2p/1u	o0980456	ZATU197						
GAR@g~c	PC25							
127F2								
3× III: 2p/1u	o0980457	ZATU197						
GAR₃	PC25							
127F3								
29× IV: 29p; III: 10p	o0980458	ZATU198						
GARA₂~a	PC25							
127F4								
55× IV: 2u; III: 37p/16u	o0980459	ZATU199						
GARA₂~b	UNP							
2× III: 2u	o0980460	ZATU199						
GAZI	PC25							
127F5								
15× III: 14p/1u	o0980461	ZATU200						
GEŠTIN~a	PC25							
127F6								
8× III: 6p/2u	o0980462	ZATU202						
GEŠTIN~c	EDI							
	o0980463							

GEŠTIN~c×X		EDI o0980464						
GEŠTIN~d 127F7	1x III: 1p	PC25 o0980465 ZATU202						
GEŠTIN~e 127F8	1x III: 1p	PC25 o0980466 ZATU202						
GEŠTU~a 127F9	26x IV: 9p/2u; III: 13p/6u	PC25 o0980467 ZATU203		 1 F20DF 2 F20E0				
GEŠTU~a×ŠE~a@t 127FA	1x III: 1p	PC25 o0980468						
GEŠTU~b 127FB	85x IV: 27p/7u; III: 44p/24u	PC25 o0980469 ZATU203						
GEŠTU~c3 127FC	9x IV: 2p/1u; III: 7p	PC25 o0980470 ZATU203		 F20E1				
GEŠTU~c5 127FD	2x III: 2p	PC25 o0980471 ZATU203						
GI 127FE	667x IV: 48p/8u; III: 459p/182u	PC25 o0980472 ZATU204		 1 F20E2 2 127FE				
GIxA 127FF	AKA: GI+A 1x III: 1p	PC25 o0980473						
GIxGIŠ@t 12800	1x III: 1p	PC25 o0980474 ZATU207						
GIxKU~b1 12801	6x III: 6p	PC25 o0980475						
GIxLAGAB~a 12802	3x IV: 2p; III: 1p/1u	PC25 o0980476 ZATU208						
GIxNAM ₂ 12803	2x IV: 1p/1u; III: 1p	PC25 o0980477 ZATU209						
GIxSIG ₂ -d1 12804	2x IV: 2p; III: 2p	PC25 o0980478 ZATU210						

$ GI \times \check{SE}_3 $ 12805 5x IV: 1p; III: 4p	 o0980479	PC25 12805	 12805	 12805				
$ GI \times X $ 1x IV: 1u	 o0980480	UNP F2432						
$ GI \times 1(N14) $ 12806 1x IV: 1p; III: 1p	 o0980481 ZATU211	PC25 12806	 12806		 12806			
$ GI \times 1(N58@t) $ 12807 AKA: $ GI \times 1(N58)@t $ CDLI: $ GI \times 1(N58)@t $ 2x III: 2p	 o0980482	PC25 12807	 12807					
$ GI \& GI $ 12808 83x IV: 1p; III: 64p/19u	 o0980483	PC25 12808	 12808	 12808	 12808	 12808	 12808	
$ (GI \& GI) \times GI \check{S} @ t $ 12809 1x IV: 1p; III: 1p	 o0980484	PC25 12809	 12809					
$ (GI \& GI) \times \check{SE}_3 $ CDLI: $ (GI \& GI) \times \check{SE}_3 $ 2x III: 2u	 o0980485 ZATU206	UNP F2433	 F2433	 F2433				
$ (GI \& GI) \times X $ o0980486		ZERO F2434	 F2434	 F2434			 F2434	
$ GI \& GI \& GI $ 1280A 2x IV: 1p; III: 2p	 o0980487	PC25 1280A	 1280A	 1280A				
$GI @ t$ 1280B 1x IV: 1p; III: 1p	 o0980488	PC25 1280B	 1280B	 1280B				
$GI_4 \sim a$ 1280C 31x IV: 1p; III: 21p/10u	 o0980489 ZATU212	PC25 1280C	 1280C	 1280C	 1280C	 1280C	 1280C	
$GI_4 \sim a \times A$ 1280D 1x III: 1p	 o0980490	PC25 1280D	 1280D	 1280D				
$ GI_4 \sim a \& GI_4 \sim a $ 1x III: 1u	 o0980491	UNP F2435	 F2435	 F2435				
$GI_4 \sim b$ 1280E 8x IV: 6p/1u; III: 8p	 o0980492 ZATU212	PC25 1280E	 1280E	 1280E	 1280E			
$ GI_4 \sim b \& GI_4 \sim b $ 1280F 1x IV: 1p	 o0980493	PC25 1280F	 1280F	 1280F				

GI₆ 12810		PC25	 F20E3 12810	 12810	 12810	 F20E3 12810	 12810	 12810
AKA: GI ₆ ~a 129x IV: 15p/1u; III: 86p/38u	o0980494	ZATU213						
GIBIL 12811		PC25	 12811			 12811	 12811	 12811
98x IV: 2p; III: 81p/17u	o0980495	ZATU214						
GIBIL@t		UNP	 F2436					
1x III: 1u	o0980496							
GIBIL₆		PC25-sq	 F20E4 1 F20E5	 F20E5				
2x III: 2p	o0980497	ZATU215						
GIG		EDI	 F223D					
	o0980498							
GIL		EDI	 F24D4					
	o0980499							
GIR~a 12812		PC25	 12812	 12812				
22x IV: 1p; III: 14p/6u	o0980500	ZATU216						
 GIR~a.KU₆~a 		PC25-sq	 F223E					
1x III: 1p	o0980501							
GIR~b 12813		PC25	 1 F20E6 12813	 F20E6	 F20E6	 F20E6		
16x IV: 2p; III: 12p/4u	o0980502	ZATU216						
 GIR~b.GIR~b 		PC25-sq	 F223F	 F223F	 F223F			
4x III: 4p	o0980503							
GIR~c 12814		PC25	 12814	 12814	 12814			
3x III: 3p	o0980504	ZATU216						
GIR~d		UNP	 F2437					
1x IV: 1u	o0980505	ZATU216						
GIR₂~a 12815		PC25	 12815	 12815	 12815	 12815		
71x IV: 5p/2u; III: 59p/6u	o0980506	ZATU218						
GIR₂~b		ZERO	 F2438					
	o0980507	ZATU218						
GIR₃~a 12816		PC25	 12816	 12816	 12816	 12816		
23x IV: 15p/1u; III: 17p/2u	o0980508	ZATU219						

GIR ₃ ~a×ŠE~b 12817		PC25 o0980509 ZATU220						
1× IV: 1p								
GIR ₃ -b 12818		PC25 o0980510 ZATU219						
1× IV: 1p								
GIR ₃ -c 12819		PC25 o0980511 ZATU219						
112× IV: 5p/1u; III: 59p/47u								
GIR ₃ ~c×KAR ₂ -b		UNP AKA: GIR ₃ ~c×KAR ₂ - CDL: GIR ₃ ~c×KAR ₂ - 3× III: 3u o0980512						
GIR ₃ ~c×ŠE ₃ 1281A		PC25 o0980513						
2× III: 2p								
GIR ₃ @g-a 1281B		PC25 o0980514 ZATU221						
4× IV: 3p; III: 2p								
GIR ₃ @g-b 1281C		PC25 76× IV: 1p; III: 68p/7u o0980515 ZATU221						
1281D		PC25 AKA: GIR ₃ @g-c 11× IV: 1p; III: 4p/6u o0980516 ZATU221						
GIR ₄		EDI o0980517						
GISAL-a 1281E		PC25 1× IV: 1p; III: 1p o0980518 ZATU222						
GISAL-b 1281F		PC25 2× IV: 2p; III: 2p o0980519 ZATU222						
GIŠ 12820		PC25 405× IV: 8p/4u; III: 362p/36u o0980520 ZATU223						
GIŠ.TE		PC25-sq 27× III: 24p/3u o0980521 ZATU226						
(GIŠ×(DIN.DIN))~a 12821		PC25 4× III: 4p o0980522 ZATU224						
(GIŠ×(DIN.DIN))~b 12822		PC25 1× IV: 1p o0980523 ZATU224						

 (GIŠ×(DIN.DIN))~c 12823 1x III: 1p	 o0980524 ZATU224	PC25 12823	 12823	 12823			
 (GIŠ×ŠU₂)~a 12824 AKA: GIŠ×ŠU₂~a CDLI: GIŠ×ŠU₂~a 42x IV: 1p; III: 29p/12u	 o0980525 ZATU225	PC25 12824	 12824	 12824		 12824	 12824
 (GIŠ×ŠU₂)~b 12825 AKA: GIŠ×ŠU₂~b CDLI: GIŠ×ŠU₂~b 16x III: 16p	 o0980526 ZATU225	PC25 12825	 12825	 12825			
GIŠ~v CDLI: GIŠ~x		EDI o0980527	 F24D6	 F24D6			
GIŠ@t 12826 37x IV: 8p/1u; III: 30p/2u	 o0980528 ZATU227	PC25 12826	 12826	 12826	 12826	 12826	 12826
 GIŠ@t.E₂~a o0980529		EDI F2243	 F2243	 F2243			
GIŠ₃~a 12827 14x III: 11p/2u	 o0980530 ZATU228	PC25 12827	 12827	 12827			
 GIŠ₃~a&GIŠ₃~a 12828 3x III: 2p/1u	 o0980531	PC25 12828	 12828	 12828	 12828		
GIŠ₃~b 12829 54x III: 18p/35u	 o0980532 ZATU228	PC25 12829	 12829	 12829	 12829	 12829	
GIŠGAL 1282A 10x III: 9p/1u	 o0980533 ZATU229	PC25 1282A	 1282A	 1282A	 1282A		
GIŠIMMAR~a1 1282B 6x IV: 3p/1u; III: 4p	 o0980534 ZATU230	PC25 1282B	 1282B	 1282B	 1282B	 1282B	
GIŠIMMAR~a2 1282C 9x IV: 1p; III: 5p/1u	 o0980535 ZATU230	PC25 1282C	 1282C	 1282C	 1282C		
GIŠIMMAR~a3 1282D 2x III: 1p/1u	 o0980536 ZATU230	PC25 1282D	 1282D	 1282D	 1282D	 1282D	 F20E8

GIŠIMMAR~b1 1282E		PC25	 1 F20E9 2 F20EA 1282E	 1282E		 F20E9		 F20E9		 F20E9
45× IV: 3p; III: 37p/4u	o0980537	ZATU230								
GIŠIMMAR~b2 1282F		PC25	 1282F							
1× IV: 1p	o0980538	ZATU230								
GIŠIMMAR~b3 12830		PC25	 12830			 12830				
2× IV: 1p; III: 1p	o0980539	ZATU230								
GIZZAL~v		UNP								
CDLI: GIZZAL~x										
1× III: 1u	o0980540	ZATU231	 F223C							
GU 12831		PC25	 12831		 12831	 12831	 12831	 12831	 12831	 12831
AKA: GU~a 101× IV: 2p/2u; III: 56p/43u	o0980541	ZATU232								
GU₂ 12832		PC25	 12832		 12832	 12832				
2× III: 2p	o0980542	ZATU233								
GU₄ 12833		PC25	 12833	 12833	 12833	 12833	 12833	 12833	 12833	 12833
201× IV: 52p/4u; III: 151p/37u	o0980543	ZATU234								
 GU₄.ZATU755~b 		PC25-sq								
AKA: GU ₄ .ZATU755~a CDLI: GU ₄ .ZATU755~a			 F2244	 F2244						
1× IV: 1p; III: 1p	o0980544									
 GU₄×1(N58) 		ZERO	 F2540			 F2540				
CDLI: *GU ₄ +1N58										
	o0982249									
GU₄@g 12834		PC25	 12834	 12834	 12834		 12834		 12834	 F20EC
5× III: 3p/2u	o0980546			 12834						
GU₇ 12835		PC25	 12835	 12835	 12835			 12835		 12835
314× IV: 6p/4u; III: 250p/58u	o0980547	ZATU235	 12835	 12835	 12835			 12835		 12835
GUB₃~a 12836		PC25	 12836	 12836	 12836	 12836				
11× IV: 1p/4u; III: 4p/3u	o0980548	ZATU236								
GUB₃~b 12837		PC25	 12837	 12837	 12837					
2× III: 1p/1u	o0980549	ZATU236								
GUB₃~c 12838		PC25	 12838	 12838	 12838					
3× IV: 1p; III: 2p	o0980550	ZATU236								

GUB ₃ ~d 12839		PC25	 12839 F20EE						 F20EE
1× IV: 1p; III: 1p o0980551 ZATU236									
GUG ₂ 1283A		PC25	 1 F20EF 1283A 2 F20FO	 1 F20EF 1283A 2 F20FO	 (a) F20FO	 (a) 1283A	 (a) F20FO	 (a) 1283A	
AKA: GUG ₂ ~a 190× IV: 36p/5u; III: 116p/36u o0980552 ZATU237									
GUG ₂ ~SILA ₃ ~a 1283B		PC25	 1283B	 1283B					
1× IV: 1p o0980553 ZATU238									
GUG ₂ ~ŠITA~a1		UNP							
1× III: 1u o0980554			F24FC						
GUG ₂ ~TUR 1283C		PC25	 1283C	 1283C					
1× IV: 1p o0980555 ZATU239									
GUG ₂ @t		ZERO							
			F243A						
GUUKKAL~a 1283D		PC25	 1283D	 1283D	 1283D				
28× IV: 27p; III: 27p o0980557 ZATU240									
GUUKKAL~a.HI@g~a		PC25-sq	 F2245	 F2245		 F2245			
2× IV: 2p; III: 2p o0980558 ZATU241									
GUUKKAL~b 1283E		PC25	 1283E	 1283E		 1283E			
2× IV: 2p o0980559 ZATU240									
GUUKKAL~c 1283F		PC25	 1283F	 1283F	 1283F				
9× III: 6p/1u o0980560 ZATU240									
GUUKKAL~d 12840		PC25	 12840	 12840		 12840			
1× IV: 1p; III: 1p o0980561 ZATU240									
GUL 12841		PC25	 12841	 12841	 12841	 12841	 12841	 12841	
28× IV: 4p; III: 21p/3u o0980562 ZATU242									
GUM~a 12842		PC25	 12842	 12842		 12842			
16× IV: 14p/1u; III: 13p o0980563 ZATU243									
GUM~b 12843		PC25	 12843 1 F20F1	 12843 1 F20F1	 F20F1	 12843 F20F1	 F20F1	 12843	
41× IV: 3p/1u; III: 29p/10u o0980564 ZATU243									
GUM~b@n 12844		PC25	 12844 1 F20F2	 12844 1 F20F2	 12844				
1× III: 1p o0980565 ZATU244									

GUN₃~a 12845		PC25						
13× IV: 1p; III: 8p/5u o0980566	ZATU245		12845			12845		
GUN₃~b 12846		PC25						
10× IV: 1u; III: 6p/3u o0980567	ZATU245		12846	12846		12846		12846
GUR 12847		PC25						
2× III: 2p o0980568	ZATU246		12847		12847			
GURUŠ~a 12848		PC25	 1 F20F3			 F20F3		
64× IV: 23p/2u; III: 45p/15u o0980569	ZATU247		12848	 2 F20F4		 F20F4		
 GURUŠ~a×2(N14) 12849		PC25						
4× IV: 2p/2u; III: 2p o0980570	ZATU248		12849		12849	12849		
GURUŠ~b 1284A		PC25						
4× IV: 4p; III: 1p o0980571	ZATU247		1284A			1284A		
 GURUŠ~b×2(N14) 1284B		PC25						
2× IV: 1p/1u; III: 1p o0980572	ZATU248		1284B			1284B		
 GURUŠ~c×2(N14) 1284C		PC25						
1× III: 1p o0980573	ZATU248		1284C					1284C
GURUŠDA 1284D		PC25			 1284D (a)	 1284D (a)	 1284D (a)	
AKA: GURUŠDA~a 80× IV: 35p/3u; III: 60p/8u o0980574	ZATU249		1284D		1284D	1284D	1284D	1284D
HAL 1284E		PC25						
90× IV: 2p/2u; III: 68p/18u o0980575	ZATU250		1284E		1284E		1284E	
HALUB 1284F		PC25						
11× III: 11p o0980576	ZATU251		1284F		1284F			
HAŠHUR 12850		PC25						
112× IV: 42p/9u; III: 64p/14u o0980577	ZATU252		12850		12850	12850	12850	12850
 HAŠHUR×MA 12851		PC25						
3× IV: 2p; III: 1p o0980578	ZATU253		12851		12851			
HI 12852		PC25						
AKA: HI~a 349× IV: 13p/4u; III: 230p/105u o0980579	ZATU254		12852		12852	12852	12852	12852

HI.SUHUR	PC25-sq		1 F20F6	2 F20F7	1 F20F5				
7× IV: 2u; III: 2p/3u o0980580 ZATU256									
HI×LAGAB~a	PC25-sq								
3× III: 3p o0980581			F2246				F2246		
HI×ŠE ₃ @t	EDI								
o0980582			F24FE						
HI×ZATU707~a	UNP								
1× IV: 1u o0980583 ZATU257			F243B						
HI×1(N01@f)	EDI								
CDLI: HI×1(N01)F o0980584			F24FD						
HI×1(N57)	PC25				(b)	12853			
12853			12853		12853				
12× IV: 1p; III: 10p/2u o0980585									
(HI×1(N57)).(HI×1(N57))	PC25-sq								
			F20F8						
CDLI: (HI×1(N57))&(HI+1(N57)) 1× III: 1p o0980586									
			1 F20F9						
HI×1(N57@t)	PC25						(a)		
12854			12854				12854		
AKA: HI×1(N57)@t CDLI: HI×1(N57)@t 2× III: 2p o0980587 ZATU255									
HI×1(N58)	UNP								
1× IV: 1u o0980588			F243C						
HI~b	UNP								
1× o0980589 ZATU254			F252F						
HI@g~a	PC25								
12855			12855						
AKA: HI@g HI~a@g 176× IV: 9p; III: 140p/33u o0980590 ZATU258									
HI@g~b	PC25								
12856			12856						
12× IV: 2p; III: 8p/2u o0980591 ZATU258									
HI@g~c	PC25								
12857			12857						
1× III: 1p o0980592 ZATU258									
HUB ₂	EDI								
			F24D7						
I	PC25								
12858			12858						
43× IV: 1p; III: 24p/19u o0980594 ZATU259									

IB~a 12859		PC25	 12859 1 F20FA 2 F20FB	 12859	 12859	 12859	 12859	 12859
393x IV: 45p/9u; III: 248p/110u	o0980595	ZATU260						
IB~a@n 1285A		PC25	 1285A	 1285A				
CDLI: IB~a@n 1x III: 1p	o0980596							
IB~b 1285B		PC25	 1285B	 1285B	 1285B			
9x IV: 7p; III: 5p	o0980597	ZATU260						
IB~c 1285C		PC25	 1285C					 1285C
5x III: 5p	o0980598	ZATU260						
IDIGNA 1285D		PC25	 1 F20FC 2 1285D	 1285D	 1285D	 1285D		
57x IV: 10p; III: 42p/11u	o0980599	ZATU261						
IG~a 1285E		PC25	 1285E	 1285E			 1285E	
2x III: 2p	o0980600							
IG~b 1285F		PC25	 1285F	 1285F				
2x III: 1p/1u	o0980601							
IGI		EDI	 F24D8					
	o0980602							
IL 12860		PC25	 12860	 12860			 12860	
10x III: 8p/2u	o0980603	ZATU262						
ILDUM~a		PC25-sq	 F2253					
1x IV: 1p	o0980604	ZATU263						
ILDUM~b		PC25-sq	 F2254		 F2254			
4x III: 4p	o0980605	ZATU263						
IM~a 12861		PC25	 12861	 12861	 12861	 12861	 12861	
97x III: 65p/32u	o0980606	ZATU264						
IM~a@g		EDI	 F24D9					
	o0980607							
IM~b 12862		PC25	 12862	 12862			 12862	
13x III: 11p/2u	o0980608	ZATU264						
IN~b 12863		PC25	 12863 1 F20FD	 12863	 12863		 12863	
29x IV: 2p/1u; III: 23p/5u	o0980609	ZATU265						

IN~d 12864		PC25						
1x III: 1p	o0980610	ZATU266		12864				
IR~a 12865		PC25						
47x IV: 2p; III: 43p/3u	o0980611	ZATU267		12865	12865	12865		
IR~a.GA ₂ ~a1		PC25-sq						
1x III: 1p	o0980612			F2247				
IR~b 12866		PC25						
2x III: 2p	o0980613	ZATU267		12866		12866		
IR~c 12867		PC25						
1x IV: 1p; III: 1p	o0980614	ZATU267		12867			12867	
IR~d 12868		PC25						
1x IV: 1p	o0980615	ZATU267		12868				
IR ₁₁		PC25-sq						
9x III: 5p/4u	o0980616	ZATU268		1 F20FF	 F20FE			
IRHAN		PC25-bk						
1x III: 1p	o0980617	ZATU269		F243D				
IŠ~a 12869		PC25		 1 F2100	 2 F2101	 3 F2102	 4 F2100	 5 F2102
26x IV: 3p; III: 22p/4u	o0980618	ZATU270		12869	F2101	12869	F2100	F2102
IŠ~b 1286A		PC25		 1 F2103	 2 F2104	 3 F2105	 4 F2106	 5 F2107
74x IV: 5p/1u; III: 52p/19u	o0980619	ZATU270		1286A	F2104	F2105	F2106	F2107
IŠ~c 1286B		PC25						
2x IV: 1p; III: 1p/1u	o0980620	ZATU270		1286B			1286B	
KA~a 1286C		PC25						
97x IV: 5p/1u; III: 52p/43u	o0980621	ZATU271		1286C	1286C	1286C	1286C	1286C

KA~a.ŠE~a		PC25-sq		 F2108  1 F2109						
1x III: 1p	o0980622	ZATU274	PC25	 1286D	 1286D	 1286D				
KA~a×SAR~a										
1286D			PC25	 1286D	 1286D	 1286D				
1x III: 1p	o0980623	ZATU273	PC25	 1286E	 1286E					
KA ₂ ~a										
1286E			PC25	 1286E	 1286E					
13x IV: 2p; III: 10p/2u	o0980624	ZATU275	PC25	 1286F	 1286F					
6x III: 4p/2u	o0980625	ZATU275	UNP	 1286F	 1286F					
KA ₂ ~c										
1x IV: 1u	o0980626	ZATU275	EDI	 o0980627	 F243E					
KA ₂ ~d										
					 F24DA	 F24DA				
KA ₂ ~d×LAM~b			PC25	 12870	 12870	 12870	 12870 (o)	 12870 (o)	 12870 (o)	
AKA: KA ₂ ~LAM										
CDLI: KA ₂ ~LAM										
20x IV: 2p; III: 18p/1u	o0980628	ZATU276		 1 F210A						
KAB			PC25	 12871	 12871	 12871	 12871	 12871	 12871	 12871
AKA: TUKU										
146x IV: 36p/9u; III: 90p/30u	o0980629	ZATU277								
KAB×1(N58)			UNP	 o0980630	 ZATU278	 F243F				
AKA: TUKU+DIŠ										
3x IV: 1u; III: 2u	o0980630	ZATU278								
KAD ₄ ~a			PC25	 12872	 12872	 12872				
9x III: 9p	o0980631	ZATU279								
KAD ₄ ~b			PC25	 12873	 12873	 12873				
2x III: 2p	o0980632	ZATU279								
KAD ₄ ~c1			UNP	 o0980633	 ZATU279	 F2440				
1x IV: 1u	o0980633	ZATU279								
KAD ₄ ~c2			UNP	 o0980634	 ZATU279	 F2441				
1x IV: 1u	o0980634	ZATU279								
KAK~a			PC25	 12874	 12874	 12874	 12874	 12874	 12874	
51x IV: 4p; III: 37p/11u	o0980635	ZATU280								
KAK~a.GA ₂ ~a1			PC25-sq	 o0980636	 F2248	 F2248				
3x III: 3p	o0980636									

KAK~b 12875		PC25						
1x IV: 1p; III: 1p	o0980637	ZATU280	12875			12875		
KAL~a 12876		PC25						
5x III: 5p	o0980638	ZATU281	12876		12876			
KAL~b1 12877		PC25						
2x III: 2p	o0980639	ZATU281	12877		12877			
F210B								
KAL~b2 12878		PC25						
15x III: 8p/7u	o0980640	ZATU281	12878		12878			
KALAM~a 12879		PC25						
29x IV: 2p/1u; III: 18p/9u	o0980641	ZATU282	12879			12879	12879	12879
KALAM~b 1287A		PC25						
54x IV: 3u; III: 31p/20u	o0980642	ZATU282	1287A				1287A	1287A
KALAM~c 1287B		PC25						
1x III: 1p	o0980643	ZATU282	1287B					
KALAM~d 1287C		PC25						
1x III: 1p	o0980644	ZATU282	1287C					
KALAM~e 1287D		PC25						
1x III: 1p	o0980645	ZATU282	1287D					
KALAM~f 1287E		PC25						
1x III: 1p	o0980646	ZATU282	1287E					
KALAM~g 1287F		PC25						
6x III: 6p	o0980647	ZATU282	1287F					1287F
KALAM~h 12880		PC25						
3x III: 2p	o0980648	ZATU282	12880					12880
KALAM~h2 12881		PC25						
1x III: 1p	o0980649	ZATU282	12881					12881
KAR		PC25-sq						
7x IV: 2u; III: 5p/1u	o0980650	ZATU283	F2272		F2272			
KAR~a 12882		PC25						
63x IV: 1p/1u; III: 51p/10u	o0980651	ZATU284	12882		12882			12882
KAR~b 12883		PC25						
11x IV: 1p; III: 8p/2u	o0980652	ZATU284	12883		12883			

KASKAL 12884		PC25 o0980653 ZATU285						
58x IV: 6p/1u; III: 31p/22u			12884		12884	12884	12884	12884
KASKAL@g	UNP o0980654							
CDLI: KASKAL@g 1x III: 1u			F2442					
KAŠ~a 12885		PC25 o0980655 ZATU286						
122x IV: 15p/4u; III: 97p/9u			1 F210C 12885		12885	12885	12885	12885
KAŠ~b 12886		PC25 o0980656 ZATU286						
126x IV: 32p/7u; III: 90p/21u			1 F210D 12886		12886	F210D 12886	12886	12886
KAŠ~b×ŠE~a@t 12887		PC25 o0980657 ZATU288						
AKA: KAŠ~b×ŠE~a CDLI: KAŠ~b×ŠE~a 2x IV: 2p			12887					
KAŠ~b@t	ZERO o0980658							
CDLI: KAŠ~b@t			F2443					
KAŠ~c 12888		PC25 o0980659 ZATU287						
150x IV: 25p/11u; III: 47p/67u			12888		12888		12888	12888
KAŠ~d 12889		PC25 o0980660 ZATU286						
19x III: 19p			12889 1 F210E					F210E
KEŠ ₂	EDI o0980661							
AKA: KEŠ ₂			F24DB					
KI 1288A		PC25 o0980662 ZATU289						
AKA: KI~a 553x IV: 7p/5u; III: 327p/214u			1288A		1288A (a)	1288A (a)	1288A (a)	1288A (a)
KI@n 1288B		PC25 o0980663						
4x III: 2p/2u			1288B				1288B	
KI@nxDUB~a 1288C		PC25 o0980664 ZATU567						
AKA: KI@nxDUB~a 1x III: 1p			1288C					
KIB 1288D		PC25 o0980665 ZATU290						
11x IV: 1p/1u; III: 7p/2u			1288D		1288D			
KIB@g 1288E		PC25 o0980666						
1x III: 1p			1288E					

KID~a 1288F		PC25							
18× III: 15p/3u	o0980667	ZATU291							
KID~b 12890		PC25							
73× IV: 1p; III: 55p/17u	o0980668	ZATU291							
KID~c 12891		PC25							
5× IV: 1p; III: 4p	o0980669	ZATU291							
KID~d 12892		PC25							
1× IV: 1p; III: 1p	o0980670	ZATU291							
KID~e 12893		PC25							
3× III: 3p	o0980671	ZATU291							
KIN 12894		PC25							
3× III: 3p	o0980672	ZATU292							
KIN₂~a 12895		PC25							
1× IV: 1p; III: 1p	o0980673	ZATU293							
KIN₂~b 12896		PC25							
1× III: 1p	o0980674	ZATU293							
KIN₂~c 12897		PC25							
13× III: 13p	o0980675	ZATU293							
KIN₂~d 12898		PC25							
3× III: 3p	o0980676	ZATU293							
KIN₂~e 12899		PC25							
1× IV: 1p; III: 1p	o0980677	ZATU293							
KINGAL		PC25-sq							
44× IV: 3p; III: 33p/10u	o0980678	ZATU294							
KIR₁₁		PC25-sq							
22× III: 7p/15u	o0980679								
KISAL~a1 1289A		PC25							
15× IV: 13p; III: 6p/1u	o0980680	ZATU295							
KISAL~a2		UNP							
1× IV: 1u	o0980681	ZATU295							
KISAL~b1 1289B		PC25							
222× IV: 30p/2u; III: 171p/39u	o0980682	ZATU295							

KISAL~b2 1289C 7x III: 7p		PC25 o0980683 ZATU295		1289C		1289C			
KISAL~b2@t 1289D CDL: KISAL~b2@t 2x III: 1p/1u		PC25 o0980684		1289D					
KISAL~b3 1289E 2x III: 2p		PC25 o0980685 ZATU295		1289E		1289E			
KISIM~a 1289F 62x IV: 1p; III: 56p/5u		PC25 o0980686 ZATU296		1289F		1289F		1289F	
KISIM~b 128A0 23x III: 23p		PC25 o0980687 ZATU296		128A0					
KISIM~c 128A1 1x IV: 1p; III: 1p		PC25 o0980688 ZATU296		128A1				128A1	
KIŠ 128A2 174x IV: 3p; III: 96p/36u		PC25 o0980689 ZATU297		1 F2115				128A2	
				2 F2116				128A2	
								F2116	
KIŠIK~a 128A3 29x III: 19p/10u		PC25 o0980690 ZATU298		128A3		128A3		128A3	
KIŠIK~b 128A4 3x III: 3p		PC25 o0980691 ZATU298		128A4					
KITI 128A5 26x III: 12p/14u		PC25 o0980692 ZATU299		1 F2117				F2118	
				2 F2118					F2117
KU~a 128A6 4x III: 4p		PC25 o0980693 ZATU300		128A6		128A6			
KU~a@t		EDI o0980694		F24DC					

KU~b1 128A7		PC25						
75x IV: 1u; III: 35p/39u	o0980695	ZATU300	128A7				128A7	128A7
KU~b2 128A8		PC25			128A8			
27x III: 26p/1u	o0980696	ZATU300	128A8		128A8			
KU ₃ ~a 128A9		PC25			128A9			
262x IV: 40p/1u; III: 179p/49u	o0980697	ZATU301	128A9		128A9	128A9 (b) F2119	128A9	128A9
KU ₃ ~c 128AA		PC25			128AA	128AA		
2x III: 1p/1u	o0980698	ZATU301	128AA		128AA			
KU ₆ ~a 128AB		PC25			128AB		128AB	128AB
385x IV: 40p/15u; III: 273p/84u	o0980699	ZATU302	128AB		128AB	128AB	128AB	128AB
KU ₆ ~a.1(N02)		PC25-sq			F224A			
3x III: 3p	o0980700							
KU ₆ ~a+GIŠ		ZERO			F2249			
o0980701								
KU ₆ ~a+KU ₆ ~a 128AC		PC25			128AC		128AC	128AC
10x IV: 1p/1u; III: 5p/3u	o0980702	ZATU303	128AC		128AC		128AC	
KU ₆ ~a@s		UNP			F2445			
1x III: 1u	o0980703	ZATU446						
KU ₆ ~c 128AD		PC25			128AD			128AD
1x III: 1p	o0980704	ZATU302	128AD					
KU ₆ ~d 128AE		PC25			128AE			
2x IV: 1u; III: 2p	o0980705	ZATU217	128AE					
KUN		EDI			F24DD			
o0980706								
KUR~a 128AF		PC25			128AF		128AF	128AF
361x IV: 40p/7u; III: 231p/97u	o0980707	ZATU304	128AF		128AF	128AF	128AF	128AF
KUR~a.E ₂ ~a		PC25-sq			F224B			
13x III: 11p/2u	o0980708	ZATU130						
KUR~a.NUNUZ~a1		ZERO			F224C			
o0980709								

KUR~b 128B0		PC25							
6× IV: 3p/2u; III: 4p o0980710 ZATU304									
KUR~b.E ₂ ~a		UNP							
1× IV: 1u; III: 1p o0980711 ZATU130			F224D						
KUR~c 128B1		PC25							
1× III: 1p o0980712 ZATU304				F211A					
KUR~d		UNP							
1× IV: 1u o0980713 ZATU304			F2446						
KUR@g~a 128B2		PC25							
CDL: KUR@g~a				128B2					
9× IV: 3p/2u; III: 6p o0980714 ZATU329									
KUR@g~b 128B3		PC25							
CDL: KUR@g~b				128B3					
1× IV: 1p; III: 1p o0980715 ZATU329									
KUŠU ₂ ~a 128B4		PC25							
4× IV: 4p; III: 2p o0980716 ZATU305			128B4						
KUŠU ₂ ~b 128B5		PC25							
7× IV: 3p/2u; III: 2p/1u o0980717 ZATU305			128B5						
KUŠU ₂ ~c 128B6		PC25							
3× III: 2p/1u o0980718 ZATU305			128B6						
KUŠU ₂ ~d 128B7		PC25							
1× III: 1p o0980719 ZATU305			128B7						
KUŠU ₂ ~e 128B8		PC25							
1× IV: 1p o0980720 ZATU305			128B8						
KUŠU ₂ ~f 128B9		PC25							
1× III: 1p o0980721 ZATU305			128B9						
LA~b 128BA		PC25							
AKA: LA 3× IV: 1p; III: 3p o0980722 ZATU306			128BA						
LA~c		UNP							
1× III: 1u o0980723 ZATU306			F2447						
LA~d 128BB		PC25							
1× IV: 1p; III: 1p o0980724 ZATU306			128BB						
LA~e		EDI							
		o0980725	F24DE						

LA ₂ 128BC 91x IV: 2p; III: 53p/36u	o0980726	ZATU307	PC25	128BC	128BC	128BC	128BC	128BC	128BC	(a)
LAGAB~a 128BD 52x IV: 9p/1u; III: 20p/24u	o0980727	ZATU308	PC25	128BD 1F211B	128BD	F211B	128BD	128BD	128BD	
LAGAB~a×BA 1x III: 1u	o0980728		UNP	F2448	F2448					
LAGAB~a×BIR ₃ ~b 2x III: 2u	o0980729		UNP	F2449	F2449					
LAGAB~a×DU ₆ ~a 128BE AKA: LAGAB~a×DU ₆ ~b CDLI: LAGAB~a×DU ₆ ~b 1x IV: 1p	o0980730	ZATU310	PC25	128BE	128BE	128BE	128BE	128BE	128BE	
LAGAB~a×KAK~a 1x III: 1u	o0980731		UNP	F244A	F244A					
LAGAB~a×KU ₆ ~a 128BF 1x III: 1p	o0980732	ZATU313	PC25	128BF	128BF	128BF	128BF	128BF	128BF	
LAGAB~a×(KU ₆ ~a+KU ₆ ~a) 128C0 AKA: LAGAB~a×KUŠU ₂ ~b CDLI: LAGAB~a×KUŠU ₂ ~b 3x IV: 2p/1u; III: 2p	o0980733		PC25	128C0	128C0	128C0	128C0	128C0	128C0	128C0
LAGAB~a×KUŠU ₂ ~a@t 128C1 AKA: LAGAB~a×KUŠU ₂ ~b CDLI: LAGAB~a×KUŠU ₂ ~b 3x IV: 2p/1u; III: 2p	o0980734	ZATU314	PC25	128C1	128C1	128C1	128C1	128C1	128C1	
LAGAB~a×LA ₂ ~a 1x	o0980735		UNP	F2521	F2521	F2521	F2521	F2521	F2521	
LAGAB~a×LAGAB~a 1x III: 1u	o0980736		UNP	F244B	F244B	F244B	F244B	F244B	F244B	
LAGAB~a×ME~a 128C2 2x IV: 2p; III: 1p	o0980737	ZATU315	PC25	128C2 1F211C	128C2 1F211C	128C2 1F211C	128C2 1F211C	128C2 1F211C	128C2 1F211C	
LAGAB~a×NI~a 1x III: 1u	o0980738		UNP	F2520	F2520	F2520	F2520	F2520	F2520	
LAGAB~a×NUN~b 128C3 2x IV: 1p/1u; III: 1p	o0980739	ZATU316	PC25	128C3	128C3	128C3	128C3	128C3	128C3	
LAGAB~a×PA~a 128C4 5x IV: 2p; III: 3p/1u	o0980740	ZATU317	PC25	128C4	128C4	128C4	128C4	128C4	128C4	

LAGAB~a×SI		UNP						
3× III: 3u	o0980741		F244C					
LAGAB~a×SIG ₇		PC25						
128C5			128C5					
1× III: 1p	o0980742							
LAGAB~a×SU~a		PC25						
128C6			128C6					
1× III: 1p	o0980743							
LAGAB~a×ŠA		PC25						
128C7			128C7					
								
			1 F211D					
								
			2 F211E					
10× III: 10p	o0980744	ZATU318						
LAGAB~a×ŠITA~a1		PC25						
128C8			128C8					
								
20× III: 19p/1u	o0980745	ZATU319						
			1 F211F					
LAGAB~a×TI		PC25						
128C9			128C9					
								
1× III: 1p	o0980746							
			1 F2120					
LAGAB~a×U ₄		PC25						
128CA			128CA					
1× III: 1p	o0980747							
LAGAB~a×UB		PC25						
128CB			128CB					
1× IV: 1p	o0980748							
LAGAB~a×X		PC25-bk						
			F2121					
								
3× IV: 1p; III: 2p	o0980749							
			1 F2122					
LAGAB~a×ZATU753		PC25						
128CC			128CC					
								
2× IV: 1p; III: 1p	o0980750	ZATU321						
			1 F2123					
LAGAB~a×2(N14)		PC25						
128CD			128CD					
1× IV: 1p; III: 1p	o0980751	ZATU320						
			128CD					
LAGAB~a×1(N58)		PC25						
128CE			128CE					
1× III: 1p	o0980752							
LAGAB~b		PC25						
128CF			128CF					
149× IV: 5p/2u; III: 107p/33u	o0980753	ZATU308						
			128CF					
LAGAB~b.TE		PC25-sq						
			128CF					
10× IV: 1p; III: 9p	o0980754							

LAGAB~b×BANŠUR~a	UNP						
1× IV: 1u	o0980755	ZATU309	F244D				
LAGAB~b×GA'AR~a1	UNP						
1× IV: 1u	o0980756	ZATU311	F244E				
LAGAB~b×HI	PC25						
128D0			128D0				
1× IV: 1p; III: 1p	o0980757	ZATU312					
LAGAB~b×(HI×1(N04))	UNP						
AKA: LAGAB~b×(HI×N04)			F251F				
1× o0980758							
LAGAB~b×KUR~e	PC25						
128D1			128D1				
1× IV: 1p	o0980759	ZATU175					
LAGAB~b×PA~a	PC25						
128D2			128D2				
1× III: 1p	o0980760	ZATU317					
LAGAB~b×SI	EDI						
			F2501				
LAGAB~b×SUH ₃	UNP						
1× III: 1u	o0980762		F244F				
LAGAB~b×ŠITA~c	EDI						
			F2500				
LAGAB~b×U ₄	PC25						
128D3			128D3				
2× III: 2p	o0980764						
LAGAB~b×x	EDI						
			F2502				
LAGAB~b×1(N01)	EDI						
			F24FF				
LAGAB~b&LAGAB~b	PC25						
128D4			128D4		128D4		
AKA: LAGAB~b+LAGAB~b							
LAGAB~b×LAGAB~b							
CDLI: LAGAB~b×LAGAB~b							
4× III: 3p/1u	o0980767						
LAGAR~a	PC25						
128D5			128D5		128D5		
61× IV: 16p/4u;							
III: 42p/9u	o0980768	ZATU323					
LAGAR~a@r	PC25						
128D6			128D6				
1× III: 1p	o0980769						
LAGAR~b1	PC25						
128D7			128D7		128D7		
5× IV: 4p; III: 5p	o0980770	ZATU323					
LAGAR~b2	PC25						
128D8			128D8		128D8		
3× IV: 3p	o0980771	ZATU323					
LAGAR~c	PC25						
128D9			128D9		128D9		
4× IV: 3p; III: 3p	o0980772	ZATU323					

LAHTAN ₂		PC25-sq						
9× III: 7p/2u	o0980773	ZATU324	F2266		F2266			
LAK025		EDI						
	o0980774		F24DF					
LAK050		EDI						
	o0980775		F24E0					
LAK172		EDI						
	o0980776		F24E1					
LAK251		EDI						
	o0980777		F24E2					
LAK350		EDI						
	o0980778		F24E3					
LAK777		EDI						
	o0980779		F24E4					
LAL ₂ -a 128DA		PC25						
39× IV: 14p; III: 31p/6u	o0980780	ZATU325	128DA	128DA	128DA	128DA	128DA	
LAL ₂ -axEZEN-a		UNP						
1× IV: 1u	o0980781	ZATU326	F2450					
LAL ₂ -axNAGA-a 128DB		PC25						
2× III: 2p	o0980782		128DB					128DB
LAL ₂ -axNIM-b2 128DC		PC25						
3× III: 2p/1u	o0980783		128DC					128DC
LAL ₂ -b 128DD		PC25						
1× IV: 1p	o0980784	ZATU325	128DD					
LAL ₃ -a 128DE		PC25						
5× III: 2p/3u	o0980785	ZATU327	128DE					
LAL ₃ -b 128DF		PC25						
2× III: 1p/1u	o0980786	ZATU327	128DF					
LAL ₃ -c		EDI						
	o0980787		F24E5					
LAM-a 128E0		PC25						
5× III: 4p/1u	o0980788	ZATU328	128E0					
LAM-b 128E1		PC25						
61× IV: 12p/5u; III: 35p/19u	o0980789	ZATU328	128E1	¹ F2124				
			2 F2125					

LAM~b@r 128E2		PC25						
1× IV: 1p; III: 1p	o0980790							
LAM~b@s		UNP						
1× IV: 1u	o0980791	ZATU329	F2451					
LAM~b@t 128E3		PC25						
CDL: LAM~b@t 2× IV: 2p; III: 2p	o0980792							
LAM~c		EDI						
	o0980793		F24E6					
LI		PC25-sq						
7× III: 7p	o0980794	ZATU330	1 F2127					
LIŠ 128E4		PC25						
10× III: 3p/7u	o0980795	ZATU331	128E4	128E4	128E4			
LU ₂ 128E5		PC25						
58× IV: 1p/1u; III: 31p/24u	o0980796	ZATU332	2 F2129					
LU ₂ ×GEŠTU~c3		UNP						
1× III: 1u	o0980797	ZATU333	F2452					
LU ₂ @t		EDI						
	o0980798		F24E7					
LUGAL		PC25-sq						
13× IV: 1u; III: 8p/4u	o0980799	ZATU334	1 F212B					
LUM 128E6		PC25						
14× IV: 1p; III: 9p/4u	o0980800	ZATU335	128E6	128E6	128E6			
MA 128E7		PC25						
195× IV: 38p/20u; III: 100p/51u	o0980801	ZATU336	1 F212C		F212C			
MA×A 128E8		PC25						
2× IV: 2p	o0980802	ZATU337	128E8					
MA×MA 128E9		PC25						
9× IV: 8p; III: 4p	o0980803	ZATU338	128E9			128E9		
MA×X		EDI						
	o0980804		F2504					

MA×2(N57)		EDI						
	o0980805							
MA×1(N58)		PC25						
128EA		128EA						
1× III: 1p	o0980806							
MA ₂		PC25						
128EB		128EB				128EB		
9× IV: 5p/2u; III: 4p/1u	o0980807	ZATU339						
MAGUR~a		PC25						
128EC		128EC						
4× IV: 4p; III: 4p	o0980808	ZATU340						
MAGUR~b		UNP						
1× IV: 1u	o0980809	ZATU340						
MAH~a		PC25						
128ED		128ED						
13× IV: 2p; III: 9p/4u	o0980810	ZATU341						
MAH~a×AB ₂		PC25						
128EE		128EE						
1× IV: 1p	o0980811							
MAH~a×GUKKAL~a		PC25						
128EF		128EF						
1× IV: 1p; III: 1p	o0980812	ZATU342						
MAH~a×KU ₆ ~a		PC25						
128F0		128F0						
2× IV: 1u; III: 1p	o0980813	ZATU343						
MAH~a×MAŠ		PC25						
128F1		128F1						
11× IV: 4p; III: 7p/2u	o0980814	ZATU344						
MAH~a×NA~a		PC25						
128F2		128F2						
3× III: 3p	o0980815							
MAH~a×(SILA ₃ ~a×UMBIN~a)		PC25						
128F3		128F3						
1× IV: 1p; III: 1p	o0980816	ZATU346						
MAH~a×TUG ₂ ~a		PC25						
128F4		128F4						
1× IV: 1p; III: 1p	o0980817	ZATU347						
MAH~a×TUN ₃ ~c		PC25						
128F5		128F5						
1× III: 1p	o0980818							
MAH~a×UD ₅ ~a		PC25						
128F6		128F6						
2× IV: 2p; III: 2p	o0980819	ZATU348						
MAH~a×UDU~a		PC25						
128F7		128F7						
1× IV: 1p; III: 1p	o0980820	ZATU349						

MAH~a×UR~a 128F8		PC25 o0980821 ZATU350						
2× IV: 2p; III: 2p								
MAH~a×UTUA~a 128F9		PC25 o0980822 ZATU351						
1× IV: 1p; III: 1p								
MAH~a×X		PC25-bk o0980823						
7× IV: 5p; III: 6p/1u								
MAH~a×ZATU659 128FA		PC25 o0980824						
1× IV: 1p; III: 1p								
MAH~b 128FB		PC25 o0980825 ZATU341						
2× IV: 1p; III: 1p/1u								
MAH~b×KU ₆ ~a		UNP o0980826 ZATU343						
1× IV: 1u								
MAH~b×MAŠ		UNP o0980827 ZATU344						
1× III: 1u								
MAH~b×NA~a 128FC		PC25 o0980828						
1× III: 1p								
MAH~b×SAL 128FD		PC25 o0980829 ZATU345						
1× IV: 1p; III: 1p								
MAR~a 128FE		PC25 o0980830 ZATU352						
164× IV: 16p/1u; III: 101p/47u								
			1 F212D		128FE	128FE	128FE	128FE
MAR~a@g 128FF		PC25 o0980831						
AKA: MAR@g~a 2× III: 2p								
			1 F212E		128FF			
MAR~a@t 12900		PC25 o0980832						
1× IV: 1p; III: 1p			12900		12900			
MAR~b 12901		PC25 o0980833 ZATU352						
22× IV: 10p; III: 12p/1u			12901		12901	12901	12901	12901
MAR~b×GAR 12902		PC25 o0980834						
1× III: 1p			12902					
MAR~b×(LAGAB~b.ŠE ₃) 12903		PC25 o0980835 ZATU353						
1× IV: 1p			12903		12903	12903		
MAR~b×ŠE~a 12904		PC25 o0980836 ZATU354						
1× IV: 1p; III: 1p			12904		12904	12904		

MAR~b×X		PC25-bk						
2× III: 2p	o0980837		F2457		F2457			
MAŠ 12905	+	PC25						
220× IV: 50p/1u; III: 141p/65u	o0980838	ZATU355	12905		12905	12905	12905	12905
MAŠ ₂ 12906		PC25						
AKA: MAŠNITA 164× IV: 2p; III: 84p/75u	o0980839	ZATU357	12906		12906	12906	12906	12906
MAŠ _{2@g} 12907		PC25						
1× III: 1p	o0980840		12907					
ME~a 12908		PC25						
511× IV: 24p/13u; III: 381p/98u	o0980841	ZATU358	12908		12908	12908	12908	12908
ME~b 12909		PC25						
4× IV: 2p; III: 4p	o0980842	ZATU358	12909		12909	12909		
ME ₃ 1290A		PC25						
5× III: 4p/1u	o0980843	ZATU359	1290A					
MEN~a 1290B		PC25	1 F212F 1290B 2 F2130					
48× IV: 2p/2u; III: 28p/16u	o0980844	ZATU360	2 F2130		1290B		F2130	F212F
MEN~b 1290C		PC25						
4× IV: 2p; III: 2p	o0980845	ZATU360	1290C					
MES 1290D		PC25	1 F2131 1290D 2 F2131					
41× III: 35p/6u	o0980846	ZATU361	1290D					
MIR~a 1290E		PC25						
23× III: 21p/2u	o0980847	ZATU362	1290E		1290E			
MIR~b 1290F		PC25						
16× III: 10p/6u	o0980848	ZATU362	1290F		1290F			
MU 12910	→→→	PC25						
140× IV: 13p/1u; III: 111p/20u	o0980849	ZATU363	12910		12910	12910	12910	12910
MUD 12911		PC25						
115× IV: 2u; III: 81p/32u	o0980850	ZATU364	12911 1 F2132			12911		12911

MUD ₃ ~a 12912 35x IV: 3p; III: 25p/7u		PC25 o0980851 ZATU365						
MUD ₃ ~a@g 12913 AKA: MUD ₃ @g 6x III: 4p/2u		PC25 o0980852 ZATU366						
MUD ₃ ~a@gxGUI o0980853		EDI						
MUD ₃ ~b 12914 2x IV: 1p; III: 1p/1u		PC25 o0980854 ZATU365						
MUD ₃ ~c 12915 4x III: 4p		PC25 o0980855 ZATU365						
MUD ₃ ~d 12916 5x III: 5p		PC25 o0980856 ZATU365						
MUL 12917 3x III: 2p/1u		PC25 o0980857 ZATU367						
MUN~a1 12918 59x IV: 5p/2u; III: 33p/18u		PC25 o0980858 ZATU368						
MUN~a2 12919 4x III: 2p/2u		PC25 o0980859 ZATU368						
MUN~a3 1291A 2x IV: 1p; III: 1u		PC25 o0980860 ZATU368						
MUN~a4 1291B 1x III: 1p		PC25 o0980861 ZATU368						
MUN~b 1291C 2x III: 2p		PC25 o0980862 ZATU368						
MUNŠUB~a 1291D 2x IV: 2p		PC25 o0980863 ZATU369						
MUNŠUB~b 1291E 18x III: 1p/17u		PC25 o0980864 ZATU369						
MUNU ₃ 1291F 16x III: 15p/1u		PC25 o0980865 ZATU370						
MURUB ₂ 5x III: 3p/2u		PC25-sq o0980866 ZATU371						

MUŠ 12920	 3x III: 3p	o0980867	ZATU373	PC25	 12920	 12920			
MUŠ~a 12921	 339x IV: 59p/7u; III: 251p/66u	o0980868	ZATU374	PC25	 1 F2137 2 F2138 12921	 12921	 F2137 F2138 12921	 12921	 12921
MUŠ~a@g 12922	 6x IV: 2p/4u	o0980869	ZATU375	PC25	 12922 1 F2136	 12922			
MUŠ~b 12923	 4x IV: 1p; III: 3p	o0980870	ZATU374	PC25	 12923	 12923			
MUŠEN 12924	 321x IV: 24p/4u; III: 220p/80u	o0980871	ZATU376	PC25	 1 F2139	 12924	 12924	 12924	 12924
MUŠEN.UR ₃ -b2		o0980872	ZATU377	PC25-sq	 1 F213B	 F213A			
MUŠEN.3(N58)		o0980873		UNP	 12924				
MUŠEN×PAP~a		o0980874		UNP	 F2506				
MUŠEN×X		o0980875		ZERO	 F2458	 F2458		 F2458	
1(N02).RU	1x III: 1p	o0980876		PC25-sq	 125BE	 125BE			
1(N58).BAD	12925			PC25	 12925	 12925	 12925 (a)	 12925 (a)	 12925 (a)
AKA: 1(N58).BAD-a 1(N58).BAD~a BAD+Diš-a BAD+Diš~a	CDLI: 1(N58).BAD-a	85x IV: 18p/3u; III: 60p/18u	o0980877	ZATU043					
(1(N58).BAD)-b	12926			PC25	 1 F2223	 12926	 F2223	 12926	 F2223
AKA: 1(N58).BAD-b CDLI: 1(N58).BAD-b	6x IV: 4p/2u; III: 3p	o0980878	ZATU043						
3(N58).UR ₃ -b1	12927			PC25	 12927	 12927	 12927		
1x III: 1p	o0980879								

NA~a 12928		PC25							
AKA: NA 169x IV: 4p/2u; III: 95p/70u	o0980880	ZATU378							
NA~b 12929		PC25							
8x IV: 5p; III: 2p/2u	o0980881	ZATU378							
NA~c 1292A		PC25							
4x IV: 4p; III: 1p	o0980882	ZATU378							
NA~d		UNP							
1x III: 1u	o0980883	ZATU378	F2459						
NA ₂ ~a 1292B		PC25	 ¹ F213C						
84x IV: 4p/4u; III: 53p/25u	o0980884	ZATU379							
NA ₂ ~b1 1292C		PC25							
6x IV: 1p; III: 6p	o0980885	ZATU379		1292C			1292C		
NA ₂ ~b2 1292D		PC25							
7x III: 6p/1u	o0980886	ZATU379		1292D					
NA ₂ ~c 1292E		PC25							
1x III: 1p	o0980887	ZATU379		1292E					1292E
NAB 1292F	*	PC25	*	*					*
	*		1292F						1292F
			*	*					
20x III: 15p/4u	o0980888	ZATU380		¹ F213D	² F213E	*	*		
NAGA~a 12930		PC25							
AKA: NAGA 163x IV: 16p/6u; III: 107p/37u	o0980889	ZATU381		12930					
NAGA~a×TAK ₄ ~a 12931		PC25							
1x III: 1p	o0980890			12931					
NAGA~b 12932		PC25							
7x IV: 6p/1u; III: 2p	o0980891	ZATU381		12932			12932		

NAGAR~a 12933		PC25	1 F213F 2 F2140 3 F2141 12933						
100× IV: 40p; III: 52p/10u	o0980892	ZATU382				(b) 12933	12933	12933	12933
NAGAR~b 12934		PC25	12934				12934	12934	
95× IV: 1p/1u; III: 90p/5u	o0980893	ZATU382	1 F2142				12934	12934	
NAM~a 12935		PC25	12935				12935	12935	
11× IV: 5p; III: 4p/3u	o0980894	ZATU383							
NAM~b 12936		PC25	12936				12936	12936	
3× IV: 3p; III: 3p	o0980895	ZATU383							
NAM~c 12937		PC25	12937						
4× IV: 1u; III: 3p	o0980896	ZATU383							
NAM~d 12938		PC25	12938			12938	12938	12938	
5× IV: 1u; III: 2p/2u	o0980897	ZATU383							
NAM ₂ 12939		PC25	12939			12939	12939	12939	12939
829× IV: 66p/12u; III: 580p/219u	o0980898	ZATU384	1 F2143						
NAM ₂ ~1(N01) 1293A		PC25	1293A						
1× III: 1p	o0980899	ZATU385							
NAM ₂ @g 1293B		PC25	1293B			1293B			
1× III: 1p	o0980900	ZATU386							
NAM ₂ @t 1293C		PC25	1293C				1293C		
9× IV: 1p; III: 1p/8u	o0980901								
NAMEŠDA		PC25-sq		1 F2145 F2144			F2145	F2145	F2145
87× IV: 2p/1u; III: 69p/18u	o0980902	ZATU387							
NANNA~a		PC25-sq		1 F2146 1 F2147 2 F2148					
11× III: 6p/5u	o0980903	ZATU388					(o) F2148		

NANNA~b		PC25-sq						
2x III: 2p	o0980904	ZATU388	F2265					
NANŠE~a 1293D		PC25						
6x IV: 2p; III: 4p/1u	o0980905	ZATU389	1293D					
NANŠE~b 1293E		PC25						
7x III: 7p	o0980906	ZATU389	1293E		1293E			
NAR 1293F		PC25						
127x IV: 5p; III: 64p/56u	o0980907	ZATU390	1293F F2149	1 F2149	F2149	1293F	F2149	1293F
NE~a 12940		PC25						
345x IV: 50p/17u; III: 192p/89u	o0980908	ZATU391	12940 F214A F214B F214C	1 2 3 F214A F214B F214C	F214A	12940 F214A	F214C	F214A F214B
NE~b 12941		PC25						
1x IV: 1p	o0980909	ZATU391	12941					
NE~c 12942		PC25						
3x IV: 1p; III: 3p	o0980910	ZATU391	12942 F214D	1 F214D				
NE~d 12943		PC25						
2x IV: 2p	o0980911	ZATU391	12943		12943			
NERGAL~v CDLI: NERGAL~x 1x III: 1p	o0980912	ZATU392	PC25-sq F2240					
NESAG ₂ ~a 12944		PC25						
73x IV: 37p/2u; III: 58p/8u	o0980913	ZATU416 ZATU570	12944 F214E	1 F214E				
NESAG ₂ ~a2 AKA: NISAG~a3 1x III: 1u	o0980914	ZATU416	UNP F2530					
NESAG ₂ ~b 12945		PC25						
24x IV: 9p/3u; III: 14p/1u	o0980915	ZATU416	12945 F214F	1 12945		12945		
NESAG ₂ ~b@t		UNP						
1x III: 1u	o0980916		F245A					
NI~a 12946		PC25						
356x IV: 13p/6u; III: 200p/145u	o0980917	ZATU393	12946		12946	12946	12946	12946

NI~a.RU		PC25-sq						
78x III: 78p	o0980918		F2256				F2256	
NI~a×1(N57)		ZERO						
	o0980919		F245B					
NI~a@g		PC25						
12947			12947				12947	
1x IV: 1p	o0980920	ZATU394						
NI~b		PC25						
12948			12948		12948	12948	12948	
91x IV: 8p; III: 79p/10u	o0980921	ZATU393						12948
NI~b×X		PC25-bk						
1x IV: 1p; III: 1p	o0980922		F245C		F245C			
NI~b×4(N57)		PC25						
12949			12949		12949			
1x III: 1p	o0980923		¹ F2150					
NI~b×8(N57)		PC25						
1294A			1294A		1294A			
CDL: 8(N57).NI~b								
1x III: 1p	o0980924							
NI ₂		PC25						
1294B			1294B		1294B			
32x III: 27p/5u	o0980925	ZATU396						
NIGIN		PC25						
1294C			1294C		1294C			1294C
9x III: 7p/2u	o0980926	ZATU397						
NIM~a		PC25						
1294D			1294D		1294D	1294D		1294D
88x IV: 22p/6u; III: 64p/15u	o0980927	ZATU398						
NIM~b1		PC25						
1294E			1294E		1294E			1294E
68x IV: 2p; III: 42p/25u	o0980928	ZATU398						
NIM~b2		PC25						
1294F			1294F		1294F	1294F		1294F
22x IV: 3p; III: 12p/9u	o0980929	ZATU398						
NIM~b3		PC25						
12950			12950					
1x III: 1p	o0980930	ZATU398						
NIM~d		UNP						
	o0980931	ZATU398	F2531					
NIMGIR		PC25						
12951			1 F2151		12951	12951	12951	12951
84x IV: 23p/1u; III: 59p/15u	o0980932	ZATU399						
NIN		PC25-sq						
107x			F225B		F225B			
IV: 1p/1u; III: 68p/37u	o0980933	ZATU400						

NINDA ₂ 12952		PC25	1 F2152 12952					
23× IV: 9p/3u; III: 15p/2u	o0980934	ZATU401	12952		12952			
NINDA ₂ ×AN 12953		PC25	12953					
2× III: 1p/1u	o0980935							
NINDA ₂ ×(AN.HI) 12954		PC25	12954					
2× III: 2p	o0980936							
NINDA ₂ ×(AN.ME~a) 12955		PC25	12955 3 F2153					
1× III: 1p	o0980937	ZATU406						
NINDA ₂ ×(AN.X)		PC25-bk	F245D		F245D			
1× III: 1p	o0980938							
NINDA ₂ ×BA		UNP						
1× III: 1u	o0980939	ZATU402	F245E					
NINDA ₂ ×EZEN~b 12956		PC25	12956					
2× III: 2p	o0980940	ZATU403						
NINDA ₂ ×GA'AR~a1 12957		PC25	12957					
1× III: 1p	o0980941							
NINDA ₂ ×GAR 12958		PC25	12958					
3× IV: 1p/1u; III: 1p	o0980942	ZATU404						
NINDA ₂ ×GIŠ 12959		PC25	12959 12959					
3× IV: 1p; III: 3p	o0980943	ZATU405						
NINDA ₂ ×(GIŠ.DAR~a)		EDI						
	o0980944		F2508					
NINDA ₂ ×GU ₄ 1295A		PC25	1295A					
1× III: 1p	o0980945							
NINDA ₂ ×GUDU ₄		DEL	1 F2156 2 F2155 1 F2154 3 F2153					
	o0982243	ZATU406						
NINDA ₂ ×HI 1295B		PC25	1295B					
5× III: 3p/2u	o0980946	ZATU407						

 NINDA₂×(HI.AN.ME~a) 1295C		PC25		 1295C					
5× III: 3p/2u	o0980947	ZATU406		1 F2154					
				2 F2155					
 NINDA₂×(HI.ME~a) 1295D		PC25		 1295D					
AKA: NINDA ₂ ×(HI+ME~a)				1 F2156					
4× III: 1p/3u	o0980948	ZATU406							
 NINDA₂×(HI.X) 		PC25-bk		 F245F					
1× III: 1p	o0980949								
 NINDA₂×KAŠ~b 1295E		PC25		 1295E		 1295E			
3× III: 2p/1u	o0980950								
 NINDA₂×MAR~a 1295F		PC25		 1295F					 1295F
1×	o0980951	ZATU408							
 NINDA₂×MAR~b 12960		PC25		 12960					
1× III: 1p	o0980952	ZATU408							
 NINDA₂×NE~a 		EDI		 F2509					
	o0980953								
 NINDA₂×NUN~a 12961		PC25		 12961					 12961
3× III: 3p	o0980954								
 NINDA₂×ŠIM~a 		EDI		 F250A					
	o0980955								
 NINDA₂×U₄ 12962		PC25		 12962					
3× III: 1p/2u	o0980956	ZATU409							
 NINDA₂×(U₄.X) 		UNP		 F2460					
1× III: 1u	o0980957								
 NINDA₂×(UDU~a×TAR~a) 		UNP		 F2461					
AKA: NINDA ₂ ×((UDU~a×TAR)~a)									
CDL: NINDA ₂ ×((UDU~a×TAR)~a)									
1× III: 1u	o0980958	ZATU410							
 NINDA₂×(UDU~a×TAR~b) 		UNP		 F2462					
AKA: NINDA ₂ ×((UDU~a+TAR)~b)									
1× III: 1u	o0980959	ZATU410							
 NINDA₂×X 		PC25-bk		 F2463					 F2463
12× IV: 2p/1u; III: 4p/5u	o0980960								
 NINDA₂×(X.MAŠ) 		EDI		 F250B					
	o0980961								
 NINDA₂×(ZATU659×1(N01)) 12963		PC25		 12963					 12963
2× III: 2p	o0980962								

 NINDA₂×ZATU710 	12964		PC25		12964							12964
3× III: 3p			o0980963									
 NINDA₂×1(N01) 	12965		PC25		12965			12965				12965
7× IV: 3p/1u; III: 3p/1u			o0980964	ZATU411								
 NINDA₂×2(N01) 	12966		PC25		12966			12966				
1× III: 1p			o0980965	ZATU411								
 NINDA₂×1(N06) 			EDI		F2507							
			o0980966									
 NINDA₂×(1(N06).HI@g~a) 	12967		PC25		12967							
AKA: NINDA ₂ ×(HI@g~a.1(N06))												
CDLI: NINDA ₂ ×(HI@g~a.1(N06))												
2× III: 1p/1u			o0980967	ZATU021								
 NINDA₂×1(N08) 	12968		PC25		12968							
1× IV: 1p; III: 1p			o0980968	ZATU411								
NINKUM			PC25-sq		F225C			F225C				
10× III: 10p			o0980969	ZATU412								
NINLIL			PC25-sq		F2233			F2233				
4× III: 4p			o0980970	ZATU413								
NIR~a	12969		PC25		12969			12969		12969		12969
32× IV: 1u; III: 23p/7u			o0980971	ZATU414								
 NIR~a×AN 	1296A		PC25		1296A							
14× III: 5p/9u			o0980972	ZATU415								
NIR~b	1296B		PC25		1296B			1296B		1296B		
15× IV: 11p; III: 11p			o0980973	ZATU414								
NU	1296C		PC25		1296C			1296C		1296C		1296C
63× IV: 4p/4u; III: 39p/18u			o0980974	ZATU417								
NU@g	1296D		PC25		1296D			1296D		1296D		F2157
21× IV: 5p/7u; III: 12p			o0980975	ZATU418								
NU₁₁	1296E		PC25		1296E			1296E		1296E		1296E
45× IV: 2p; III: 37p/6u			o0980976	ZATU419								
 NU₁₁&NU₁₁ 	1296F		PC25		1296F			1296F		1296F		
1× III: 1p			o0980977									

NU ₁₁ @t 12970		PC25						
CDLI: NU ₁₁ @t 4x III: 2p/2u	o0980978		12970					
NUMUN 12971	15x IV: 1p; III: 12p/2u	o0980979	PC25	12971		12971	12971	12971
NUMUN ₂	2x III: 2u	o0980980	UNP	F2464	ZATU420			
NUN~a 12972	726x IV: 103p/13u; III: 522p/155u	o0980981	PC25	12972	12972	12972	12972	12972
NUN~a+A 12973	3x IV: 2p; III: 3p	o0980982	PC25	12973	12973			
NUN~a+EN~a 12974	AKA: EN~a+xNUN~a 39x IV: 12p/5u; III: 21p/5u	o0980983	PC25	12974	12974	12974	12974	
NUN~a+EN~b 12975	5x IV: 2p/3u; III: 1p	o0980984	PC25	12975	12975		(b) 12975	
NUN~a+EN~d 12976	1x IV: 1p	o0980985	PC25	12976	12976			
NUN~a+NAM ₂ 12977	13x III: 13p	o0980986	PC25	12977	12977		12977	
NUN~b 12978	117x IV: 36p/3u; III: 49p/61u	o0980987	PC25	12978	12978	12978	12978	
NUN~b.U ₄	1x III: 1p	o0980988	PC25-sq	12978				
NUN~b+EN~a 12979	AKA: EN~a+a+NUN~b 9x III: 8p	o0980989	PC25	12979	12979			
NUN~c 1297A	18x IV: 15p/2u; III: 8p	o0980990	PC25	1 F2158 1297A 2 F2159 3 F215A	ZATU421	F2158 1297A F2159 F215A	1297A F2159	

NUN~d 1297B		PC25						
4x IV: 3p; III: 1p	o0980991	ZATU421	1297B					
NUNUZ~a0 1297C		PC25						
AKA: NUNUZ~a1@n 13x III: 3p/10u	o0980992	ZATU423	1297C					
NUNUZ~a1 1297D		PC25				1297D	1297D	1297D
184x IV: 3p/2u; III: 113p/67u	o0980993	ZATU423	1297D		1297D	1297D	1297D	1297D
NUNUZ~a1@t		UNP						
CDL: NUNUZ~a1@t 2x III: 2u	o0980994		F2465					
NUNUZ~a2 1297E		PC25						
14x IV: 6p; III: 5p/5u	o0980995	ZATU423	1297E			1297E	1297E	
NUNUZ~b1 1297F		PC25				1297F	1297F	
5x IV: 2p; III: 5p	o0980996	ZATU423	1297F		1297F	1297F		
NUNUZ~b2		UNP						
1x III: 1u	o0980997	ZATU423	F2466					
NUNUZ~c 12980		PC25						
27x IV: 1p; III: 15p/11u	o0980998	ZATU423	12980					
PA~a 12981		PC25						
514x IV: 43p/8u; III: 370p/116u	o0980999	ZATU425	12981					
PA~b 12982		PC25						
2x IV: 2p; III: 1p	o0981000	ZATU425	12982			12982		
PA ₃ o0981001		EDI						
PAD~a 12983		PC25				12983	12983	12983
30x IV: 3p; III: 19p/9u	o0981002	ZATU426	12983		12983	12983		12983
PAD~b 12984		PC25				12984	12984	
1x III: 1p	o0981003	ZATU426	12984		12984			

PAP~a 12985		PC25							
855x IV: 55p/11u; III: 553p/246u	o0981004	ZATU427	12985		12985	12985	12985	12985	12985
PAP~a@t 12986		PC25							
AKA: PAP@t 21x III: 21p	o0981005		12986						
1 F2161								F2161	
PAP~b 12987		PC25							12987
4x IV: 2p/1u; III: 2p	o0981006	ZATU427	12987		12987				12987
1 F2162									
PIRIG~a1 12988		PC25							
19x IV: 17p/1u; III: 13p	o0981007	ZATU428	12988		12988	12988	12988		
PIRIG~a2 12989		PC25							
1x IV: 1p; III: 1p	o0981008	ZATU428	12989			12989			
PIRIG~a3 1298A		PC25							
2x IV: 1p; III: 1p	o0981009	ZATU428	1298A			1298A			
PIRIG~b1 1298B		PC25							
174x IV: 7p/3u; III: 112p/54u	o0981010	ZATU428	1298B		1298B	1298B	1298B	1298B	1298B
PIRIG~b1+DIN 1298C		PC25							
2x III: 2p	o0981011		1298C						1298C
PIRIG~b1×UR ₂		UNP							
2x III: 2u	o0981012		F2467						
PIRIG~b1×(N58@t)		ZERO							
		o0981013	F2528						F2528
PIRIG~b2 1298D		PC25							
2x IV: 1p; III: 1p	o0981014	ZATU428	1298D						
PU ₂ 1298E		PC25							
40x IV: 1p; III: 35p/4u	o0981015	ZATU430	1298E			F2163		F2163	
1 F2163									
RA 1298F		PC25							
4x IV: 1p; III: 3p	o0981016	ZATU431	1298F						1298F
RAD~a 12990		PC25							
238x IV: 5p/2u; III: 116p/111u	o0981017	ZATU432	12990		12990	12990	12990	12990	12990

RAD~a@g 12991		PC25 o0981018 ZATU433	12991	12991	12991 (o)	12991 (o)		
15x IV: 5p/1u; III: 7p/6u								
RAD~a@t	UNP CDL: RAD~a@t 2x III: 2u	o0981019	F2468					
RAD~b 12992	PC25 o0981020 ZATU432		12992	12992	12992	12992		
16x IV: 14p; III: 15p								
RI	EDI o0981021		F24E9					
RI~x	DEL o0982244		F24EA					
RI _g ~a 12993	PC25 o0981022 ZATU434		12993	12993	12993			
8x IV: 1p; III: 4p/3u								
RI _g ~b 12994	PC25 1x III: 1p o0981023 ZATU434		12994 1 F2164	12994	12994			(a) F2164
RU 12995	PC25 AKA: RU~a 345x IV: 17p/6u; III: 248p/82u	o0981024 ZATU435	12995	1 F2165	12995	12995	12995	12995
RU@t	ZERO CDL: RU@t o0981025		F2469					
SA~a 12996	PC25 25x IV: 1p; III: 16p/8u	o0981026 ZATU436		12996	12996	12996	12996	
SA~c 12997	PC25 53x III: 40p/12u	o0981027 ZATU436		12997 1 F2166				
SAG 12998	PC25 417x IV: 34p/8u; III: 277p/109u	o0981028 ZATU437		1 F2168 2 F2169	12998	12998	12998 F2169	12998
SAG+UKKIN~b×1(N57) 12999	PC25 AKA: SAG×(UKKIN~b×1(N57)) 1x III: 1p	o0981029		12999				12999

SAG×GEŠTU~a 1299A		PC25						
AKA: SAG+GEŠTU~a 10x IV: 8p; III: 1p/1u o0981030 ZATU438								
SAG×GEŠTU~b 1299B		PC25						
3x III: 3p o0981031 ZATU438								
SAG×GEŠTU~c		UNP						
1x III: 1u o0981032 ZATU438								
SAG×LAM~c		EDI						
o0981033								
SAG×MA 1299C		PC25						
19x III: 18p o0981034 ZATU439								
SAG×NAM ₂ 1299D		PC25						
AKA: SAG+NAM ₂ 1x III: 1p o0981035								
SAG×SAR~a		EDI						
o0981036								
SAG×1(N14)		UNP						
1x III: 1u o0981037 ZATU440								
SAG@g 1299E		PC25						
9x III: 4p/5u o0981038								
SAG@n 1299F		PC25						
18x IV: 1p; III: 17p/1u o0981039 ZATU441								
SAGŠU 129A0		PC25						
31x III: 17p/14u o0981040 ZATU442								
SAL 129A1		PC25						
985x IV: 57p/19u; III: 627p/310u o0981041 ZATU443								
SAL.KUR~a 50x IV: 3p/1u; III: 35p/12u o0981042 ZATU201		PC25-sq						
SAL.LAM~b		UNP						
2x III: 2u o0981043								
SAL.ME~a AKA: LUKUR 1x III: 1p o0981044		PC25-sq						
SAL.ŠU ₂		PC25-sq						
2x III: 2p o0981045								
SAL.ZATU751~a CDL: *SAL.ZATU751~a 1x III: 1p o0981046		PC25-sq						

SAL.ZATU751~b CDLI: *SAL+ZATU751~b o0981047	ZERO						
SAL.ZATU751~c CDLI: *SAL+ZATU751~c 1x III: 1p o0981048	PC25-sq						
SAL×1(N58) 129A2 2x III: 1p/1u o0981049	PC25						
SANGA~a 129A3 716x IV: 75p/28u; III: 488p/155u o0981050 ZATU444	PC25	1 2 	 	 	 		
(b) F216A 129A3							
SANGA~b 129A4 16x IV: 15p; III: 6p o0981051 ZATU444	PC25	1 	 		 		
SANGA~c 129A5 2x IV: 1p/1u o0981052 ZATU444	PC25						
SANGA~e 129A6 1x III: 1p o0981053 ZATU444	PC25	1 					
SAR~a 129A7 78x IV: 2p/2u; III: 49p/26u o0981054 ZATU445	PC25						
SAR~a×ŠE~a 129A8 27x IV: 4p/1u; III: 20p/4u o0981055 ZATU514	PC25						
SAR~b 129A9 5x III: 5p o0981056 ZATU445	PC25						
SAR~c 129AA 4x III: 2p/2u o0981057 ZATU445	PC25						
SAR~d 129AB 1x III: 1p o0981058 ZATU445	PC25						
SI 129AC 389x IV: 24p/9u; III: 227p/129u o0981059 ZATU447	PC25	1 					
129AD 1x III: 1p o0981060	PC25						

SI×EN~a 129AE 1x III: 1p	 o0981061	PC25	 129AE						 129AE
SI×GU ₄ 129AF 1x III: 1p	 o0981062	PC25 ZATU448	 129AF						
SI×KU~b1 129B0 17x III: 17p	 o0981063	PC25	 129B0						 129B0
SI×SAL 129B1 1x III: 1p	 o0981064	PC25	 129B1						 129B1
SI×ŠE ₃ 129B2 4x III: 3p/1u	 o0981065	PC25 ZATU449	 129B2	 129B2	 129B2				
SI×TUN ₃ ~a 129B3 1x III: 1p	 o0981066	PC25	 129B3						 129B3
SI×1(N58) 129B4 1x III: 1p	 o0981067	PC25	 129B4						 129B4
SI ₄ ~a 129B5 75x IV: 20p/5u; III: 45p/11u	 o0981068	PC25 ZATU450	 129B5	 129B5	 129B5				
SI ₄ ~b 129B6 1x IV: 1p; III: 1p	 o0981069	PC25 ZATU450	 129B6	 129B6	 129B6				
SI ₄ ~c 129B7 1x IV: 1p; III: 1p	 o0981070	PC25 ZATU450	 129B7	 129B7	 129B7				
SI ₄ ~d 129B8 4x IV: 1p; III: 4p	 o0981071	PC25 ZATU450	 129B8	 F216E	 129B8	 F216E			
SI ₄ ~f 129B9 73x III: 57p/16u	 o0981072	PC25 ZATU450	 129B9	 F216F	 129B9	 F216F	 129B9		
SIG 129BA 92x IV: 7p; III: 56p/31u	 o0981073	PC25 ZATU451	 129BA	 129BA	 129BA	 129BA			
SIG~b 2x		UNP o0981074 ZATU451	 F2532						
SIG@g 1x III: 1u		UNP o0981075	 F246C	 F246C					

SIG ₂ ~a1 129BB		PC25						
AKA: SIG ₂ ~a 26× IV: 1u; III: 14p/10u	o0981076	ZATU452						
SIG ₂ ~a2 129BC		PC25	 ¹					
23× IV: 3p/3u; III: 17p/2u	o0981077	ZATU452						
SIG ₂ ~a3 129BD		PC25	 ¹ ²			 ¹		
21× IV: 6p/1u; III: 16p/3u	o0981078	ZATU452						
SIG ₂ ~a4 129BE		PC25						
2× IV: 1p; III: 1p	o0981079	ZATU452						
SIG ₂ ~b 129BF		PC25						
158× IV: 17p/16u; III: 80p/51u	o0981080	ZATU452						
SIG ₂ ~b×1(N14)		UNP						
3× IV: 3u	o0981081	ZATU453						
SIG ₂ ~b&SIG ₂ ~b 129C0		PC25						
AKA: SIG ₂ ~b.SIG ₂ ~b CDL: SIG ₂ ~b.SIG ₂ ~b 2× III: 2p	o0981082							
SIG ₂ ~c1 129C1		PC25						
2× IV: 1p; III: 1p	o0981083	ZATU452						
SIG ₂ ~c2 129C2		PC25						
1× III: 1p	o0981084	ZATU452						
SIG ₂ ~d1 129C3		PC25						
10× III: 10p	o0981085	ZATU452						
SIG ₂ ~d2 129C4		PC25	 ¹					
4× IV: 2p; III: 1p	o0981086	ZATU452						
SIG ₂ ~d3 129C5		PC25						
2× IV: 2p	o0981087	ZATU452						
SIG ₂ ~d4 129C6		PC25						
4× IV: 4p; III: 2p	o0981088	ZATU452						
SIG ₂ ~e 129C7		PC25						
10× IV: 4p/2u; III: 3p/2u	o0981089	ZATU452						

SIG ₄ 129C8	1x IV: 1p o0981090	PC25 ZATU454	 129C8	 129C8	 129C8			
SIG ₇ 129C9		PC25						
102x IV: 14p/1u; III: 68p/23u	o0981091	ZATU455					F2174	F2174
SIKIL		EDI o0981092						
SILA ₃ -a 129CA		PC25						
52x IV: 5p/3u; III: 21p/24u	o0981093	ZATU456						
SILA ₃ -a-xA 129CB	1x III: 1p o0981094	PC25 ZATU457						
SILA ₃ -a-xAMAR 129CC		PC25						
1x IV: 1p o0981095								
SILA ₃ -a-xDUG-a 129CD		PC25						
8x III: 4p/4u o0981096		ZATU458						
SILA ₃ -a-xDUG-b		EDI o0981097						
SILA ₃ -a-xGA-a 129CE		PC25						
8x III: 5p/3u o0981098		ZATU459						
SILA ₃ -a-xGARA ₂ -a 129CF		PC25						
AKA: SILA ₃ -a+GARA ₂ -a 18x III: 14p/4u o0981099		ZATU461						
SILA ₃ -a-xGEŠTU-a 129D0	1x III: 1p o0981100	PC25 ZATU462						
SILA ₃ -a-xGEŠTU-c3 129D1		PC25						
7x IV: 5p/2u; III: 1p o0981101		ZATU462						
SILA ₃ -a-xGEŠTU-c5	1x III: 1u o0981102	UNP ZATU462 ZATU469						
SILA ₃ -a-xHAŠHUR 129D2		PC25						
5x IV: 1p; III: 3p/1u o0981103		ZATU463						
SILA ₃ -a-xHI 129D3		PC25						
7x IV: 1p; III: 6p/1u o0981104		ZATU464						
SILA ₃ -a-xHI@g-a		UNP						
2x IV: 2u o0981105		ZATU465						

SILA ₃ ~a×IB~a 129D4		PC25 o0981106 ZATU466						
1× IV: 1p; III: 1p								
SILA ₃ ~a×KAŠ~a 129D5		PC25 o0981107 ZATU467						
AKA: SILA ₃ ~a+KAŠ~a 5× IV: 1u; III: 4p								
SILA ₃ ~a×KAŠ~c 129D6		PC25 o0981108 ZATU467						
2× III: 2p								
SILA ₃ ~a×KAŠ~d 129D7		PC25 o0981109 ZATU467						
2× III: 1p/1u								
SILA ₃ ~a×KU ₆ ~a 129D8		PC25 o0981110						
9× III: 6p/3u								
SILA ₃ ~a×KUR~a 129D9		PC25 o0981111 ZATU468						
4× IV: 1p/2u; III: 1p/1u								
SILA ₃ ~a×MA 129DA		PC25 o0981112 ZATU473						
4× III: 3p/1u								
SILA ₃ ~a×MAŠ 129DB		PC25 o0981113 ZATU470						
3× IV: 3p; III: 3p								
SILA ₃ ~a×MUD ₃ ~b 129DC		PC25 o0981114						
AKA: SILA ₃ ~a+MUD ₃ ~b 1× III: 1p								
SILA ₃ ~a×NAGA~a 129DD		PC25 o0981115 ZATU471						
2× III: 2p								
SILA ₃ ~a×NI~a 129DE		PC25 o0981116 ZATU460 ZATU472						
10× IV: 2u; III: 7p/1u								
SILA ₃ ~a×NUN~b 129DF		PC25 o0981117 ZATU614						
2× IV: 1p; III: 1p								
SILA ₃ ~a×SUHUR 129E0		PC25 o0981118						
2× IV: 2p; III: 2p								
SILA ₃ ~a×SUM~a 129E1		PC25 o0981119 ZATU474						
3× IV: 3p; III: 1p								
SILA ₃ ~a×SUM~b 129E2		PC25 o0981120 ZATU474						
1× III: 1p								

SILA ₃ ~a×ŠE~a 129E3 1× IV: 1p o0981121	PC25 ZATU475						
SILA ₃ ~a×ŠE~a@t 129E4 18× IV: 5p; III: 8p/7u o0981122	PC25						
SILA ₃ ~a×ŠU 129E5 17× IV: 2p/1u; III: 4p/10u o0981123	PC25 ZATU476						
SILA ₃ ~a×ŠU ₂ 129E6 11× III: 8p/3u o0981124	PC25 ZATU477						
SILA ₃ ~a×X 17× IV: 7p/5u; III: 10p/2u o0981125	PC25-bk					F2470	
SILA ₃ ~a×ZATU629 129E7 1× III: 1p o0981126	PC25					129E7	
SILA ₃ ~a×ZATU646 129E8 1× III: 1p o0981127	PC25					129E8	
SILA ₃ ~a×(ZATU659.TU~c) 129E9 1× IV: 1p; III: 1p o0981128	PC25 ZATU478					129E9	
SILA ₃ ~a×1(N57) 129EA 2× III: 2p o0981129	PC25 ZATU481					129EA	
SILA ₃ ~a×1(N58) 1× IV: 1u o0981130	UNP ZATU481					F2471	
SILA ₃ ~b 129EB 5× III: 5p o0981131	PC25 ZATU456					129EB	
SILA ₃ ~b×DUG~a o0981132	EDI					F250F	
SILA ₃ ~b×GUG ₂ 129EC 1× III: 1p o0981133	PC25					129EC	
SILA ₃ ~b×NAGA~b 129ED 1× IV: 1p; III: 1p o0981134	PC25 ZATU471					129ED	
SILA ₃ ~b×NI~a 129EE 1× III: 1p o0981135	PC25 ZATU460					129EE	
SILA ₃ ~b×NI~b 129EF 1× III: 1p o0981136	PC25 ZATU460					129EF	
SILA ₃ ~c 1× III: 1u o0981137	UNP ZATU456					F2472	

SILA ₃ ~c×ŠU		UNP	F2473	F2473				
1× IV: 1u	o0981138	ZATU476						
SILA ₃ ~c×ZATU687		PC25	129F0	129F0	129F0			
1× III: 1p	o0981139	ZATU480						
SILA ₃ ~d×NI~a		UNP	F2474	F2474				
2× III: 2u	o0981140	ZATU460						
SILA ₄ ~a		PC25	129F1	129F1	129F1			
17× III: 10p/7u	o0981141	ZATU482						
SILA ₄ ~b		PC25	129F2	129F2	129F2	129F2		
31× IV: 6p/1u; III: 20p/8u	o0981142	ZATU482						
SILA ₄ ~c		PC25	129F3	129F3	129F3			
83× IV: 8p/1u; III: 45p/35u	o0981143	ZATU482	¹ F2176			129F3		
SILA ₄ ~d		PC25	129F4	129F4	129F4	129F4		
1× III: 1p	o0981144	ZATU482						
SILANITA		PC25	129F5	129F5	129F5			
AKA: SILANITA~a								
26× III: 20p/6u	o0981145	ZATU483						
SIMUG		PC25	129F6	129F6	129F6	129F6	129F6	
13× IV: 1p; III: 10p/3u	o0981146	ZATU484	¹ F2177	F2177	F2177	F2177	F2177	
SIPA		PC25-sq	F2178	F2178	F2179	F2179		
6× III: 6p	o0981147		¹ F2179					
SU~a		PC25	129F7	129F7	129F7	129F7	129F7	
278× IV: 20p/5u; III: 168p/97u	o0981148	ZATU485	¹ F217A	129F7	F217A	129F7	F217A	F217A
SU~a×1(N58)		PC25	129F8	129F8	129F8	129F8		
2× III: 2p	o0981149	ZATU486						
SU~b		PC25	129F9	129F9				
3× IV: 3p; III: 3p	o0981150	ZATU485				129F9		
SU~c		PC25	129FA	129FA				129FA
1× III: 1p	o0981151	ZATU485						
SU ₃		PC25	129FB	129FB	129FB	129FB		
6× III: 5p/1u	o0981152	ZATU487						

SUG 129FC		PC25						
11x IV: 3p; III: 6p/3u o0981153	ZATU488							
SUG ₅ 129FD		PC25						
AKA: SUG ₅ ~a 89x IV: 2p/1u; III: 63p/22u o0981154	ZATU489							
SUH ₃ 129FE		PC25						
4x III: 3p/1u o0981155	ZATU490							
SUHUR 129FF		PC25	 1 F217B 2 F217C 3 F217D					
AKA: SUHUR~a 310x IV: 37p/11u; III: 234p/52u o0981156	ZATU491							
SUHUR@g 12A00		PC25						
4x III: 3p/1u o0981157								
SUHUR@n 12A01		PC25						
CDL: SUHUR@n 5x III: 1p/4u o0981158								
SUHUR@t 12A02		PC25						
6x III: 6p o0981159								
SUKKAL 12A03		PC25	 1 F217E					
155x IV: 19p/7u; III: 106p/34u o0981160	ZATU492							
SUKUD 12A04		PC25						
14x IV: 6p; III: 9p/2u o0981161	ZATU493							
(SUKUD+SUKUD)~a 12A05		PC25						
5x IV: 1u; III: 4p o0981162	ZATU494							
(SUKUD+SUKUD)~b 12A06		PC25						
13x IV: 1p; III: 11p/1u o0981163	ZATU494							
(SUKUD+SUKUD)~c o0981164		EDI						
(SUKUD+SUKUD)~d 3x III: 3u o0981165	ZATU494							
SUKUD@g~a 12A07		PC25	 1 F217F					
1x IV: 1p o0981166	ZATU495							

SUKUD@g~b 12A08		PC25	 12A08 1 F2180		F2180	12A08			
2× IV: 1p; III: 1p	o0981167	ZATU495							
SUKUD@g~c 12A09		PC25	 12A09			12A09			
2× IV: 1p; III: 1p/1u	o0981168	ZATU495							
SUKUD@g~d 12A0A		PC25	 12A0A						
CDLI: SUKUD@g~d 3× III: 1p/2u	o0981169	ZATU495							
SUKUD@h		UNP	 F251C						
1× III: 1u	o0981170								
SUM~a 12A0B		PC25	 1 F2181 12A0B 2 F2182	 1 F2181			 F2182		
29× IV: 1p; III: 24p/5u	o0981171	ZATU496							
SUM~a@t		UNP	 F2476						
CDLI: SUM~a@t 1× III: 1u	o0981172								
SUM~b 12A0C		PC25	 12A0C		12A0C	12A0C	 12A0C		
19× IV: 4p; III: 11p/4u	o0981173	ZATU496							
SUMAŠ 12A0D		PC25	 12A0D		12A0D	12A0D			
2× IV: 1p; III: 2p	o0981174	ZATU497							
SUR 12A0E		PC25	 12A0E		12A0E	12A0E	 12A0E		
9× IV: 1p; III: 6p/2u	o0981175	ZATU498							
SUSA		PC25-sq	 F2250		 F2250				
1× III: 1p	o0981176	ZATU499							
ŠA 12A0F		PC25	 1 F2183 2 F2184 12A0F 3 F2185	 1 F2183	 2 F2184	 12A0F	 F2183 F2184	 12A0F	 12A0F
139× IV: 6p/2u; III: 103p/33u	o0981177	ZATU500							
(ŠA×HI@g~a)~a 12A10		PC25	 12A10		12A10	12A10			
15× IV: 1p; III: 7p/8u	o0981178	ZATU501							
(ŠA×HI@g~a)~b 12A11		PC25	 12A11				 (b) 12A11		
4× IV: 1p; III: 4p	o0981179	ZATU501							

ŠA@g 12A12		PC25						
20x IV: 1p; III: 14p/5u	o0981180	ZATU502						
ŠA ₃ -a1 12A13		PC25						
112x IV: 5p; III: 58p/49u	o0981181	ZATU503						
ŠA ₃ -a2 12A14		PC25						
AKA: ŠA ₃ -b1 32x IV: 1p/1u; III: 21p/5u	o0981182	ZATU503						
ŠA ₃ -a2@g 12A15		PC25						
1x III: 1p	o0981183							
ŠA ₃ -b 12A16		PC25						
3x IV: 2p; III: 2p	o0981184	ZATU503						
ŠA ₃ -c 12A17		PC25						
9x IV: 6p/1u; III: 7p	o0981185	ZATU503						
ŠA ₃ -d 12A18		PC25						
1x IV: 1p	o0981186	ZATU503						
ŠAB-a		PC25-sq						
79x IV: 5p/1u; III: 66p/10u	o0981187	ZATU504						
ŠAB-b		PC25-sq						
9x III: 9p	o0981188	ZATU504						
ŠAGAN 12A19		PC25						
73x IV: 5p/1u; III: 60p/10u	o0981189	ZATU506						
ŠAGINA 12A1A		PC25						
1x IV: 1p	o0981190	ZATU507						
ŠAH ₂ -a 12A1B		PC25						
27x IV: 4p; III: 23p/3u	o0981191	ZATU508						
ŠAH ₂ -b 12A1C		PC25						
1x III: 1p	o0981192	ZATU508						

ŠAH₂~c 12A1D		PC25						
1× IV: 1p o0981193 ZATU508								
ŠAKIR~a 12A1E		PC25						
3× III: 3p o0981194 ZATU509								
ŠAKIR~b 12A1F		PC25						
8× III: 7p/1u o0981195 ZATU509								
ŠAKIR~c 12A20		PC25						
47× III: 32p/15u o0981196 ZATU509								
ŠAM₂ 12A21		PC25						
66× IV: 3p/2u; III: 57p/8u o0981197 ZATU510								
ŠANDANA~a		PC25-sq						
2× III: 2p o0981198								
ŠANDANA~b		UNP						
1× III: 1u o0981199								
ŠE~a 12A22		PC25						
1204× IV: 87p/6u; III: 889p/232u o0981200 ZATU511								
 ŠE~a.GAR 		PC25-sq						
2× III: 2p o0981201								
 ŠE~a.KIN₂~c 		PC25-sq						
5× III: 5p o0981202 ZATU512								
 ŠE~a.NAM₂ 		PC25-sq						
AKA: ŠE~a×NAM ₂ ŠE~a×NAM ₂ 109× IV: 10p; III: 64p/39u o0981203 ZATU513								
 ŠE~a&ŠE~a 12A23		PC25						
29× IV: 1p; III: 24p/4u o0981204 ZATU515								
ŠE~a@t 12A24		PC25						
14× IV: 2p; III: 9p/5u o0981205								
ŠE~b 12A25		PC25						
6× IV: 1p; III: 5p o0981206 ZATU511								

ŠE~c 12A26		PC25							
2x IV: 1p/1u	o0981207	ZATU511							
ŠE₃ 12A27		PC25							
175x IV: 13p/10u; III: 112p/48u	o0981208	ZATU516							
ŠE_{3@t} 12A28		PC25							
11x IV: 1p/1u; III: 8p/2u	o0981209	ZATU518							
ŠEG, 12A29		PC25							
31x IV: 8p; III: 27p/3u	o0981210	ZATU519							
ŠELU		PC25-sq							
32x IV: 25p; III: 6p/1u	o0981211	ZATU520							
ŠEN~a 12A2A		PC25							
19x IV: 1u; III: 14p/4u	o0981212	ZATU521							
ŠEN~b 12A2B		PC25							
52x IV: 1p; III: 49p/2u	o0981213	ZATU521							
ŠEN~c 12A2C		PC25							
2x III: 1p	o0981214	ZATU521							
ŠEN~c@t 12A2D		PC25							
28x III: 28p	o0981215								
ŠEN~d		ZERO							
 ŠEN~d×A 12A2E		PC25							
1x III: 1p	o0981217								
ŠEN~e 12A2F		PC25							
6x III: 6p	o0981218	ZATU521							
ŠENNUR~a 12A30		PC25							
10x III: 9p/1u	o0981219	ZATU522							

ŠENNUR~b 12A31		PC25						
2× III: 1p/1u	o0981220	ZATU522						
ŠEŠ~a 12A32		PC25						
25× IV: 11p/3u; III: 10p/4u	o0981221	ZATU523	¹ F219F			F219F		
ŠEŠ~b 12A33		PC25						
1× IV: 1p; III: 1p	o0981222	ZATU523	12A33		12A33			
ŠIDIM 12A34		PC25					12A34	12A34
36× IV: 6p/3u; III: 23p/5u	o0981223	ZATU524	12A34	12A34			12A34	12A34
ŠIDIM@t		UNP						
1× IV: 1u	o0981224		F2477					
ŠIM~a 12A35		PC25	¹ F21A0					
56× IV: 2p/2u; III: 50p/3u	o0981225	ZATU525	² F21A1					
ŠIM~b 12A36		PC25						
3× IV: 1p/1u; III: 1p/1u	o0981226	ZATU525	12A36			12A36		
ŠIR~a 12A37		PC25	¹ F21A2					
16× IV: 2p/4u; III: 11p/1u	o0981227	ZATU526	² 12A37		12A37	F21A2	12A37	F21A2
ŠIR~b 12A38		PC25	¹ F21A3					
7× IV: 4p; III: 3p/2u	o0981228	ZATU526	² F21A4					
ŠITA~a1 12A39		PC25						
AKA: ŠITA~a 346×			12A39		12A39	12A39	12A39	12A39
IV: 38p/10u; III: 243p/76u	o0981229	ZATU527						
 ŠITA~a1×KAK~a 12A3A		PC25						
2× III: 2p	o0981230	ZATU529	12A3A		12A3A			
 ŠITA~a1×ŠU 12A3B		PC25						
2× III: 2p	o0981231	ZATU528	12A3B		12A3B			
 ŠITA~a1×ŠU₂ 		UNP						
1× III: 1u	o0981232		F2478					
 ŠITA~a1×UDU~a 		UNP						
5× III: 5u	o0981233		F2479					

ŠITA~a1x1(N06)		UNP							
3× III: 3u	o0981234		F247A						
ŠITA~a2 12A3C		PC25							
1× III: 1p	o0981235	ZATU527	12A3C						
ŠITA~a3 12A3D		PC25							
29× IV: 10p; III: 20p/4u	o0981236	ZATU527	12A3D		12A3D	12A3D		12A3D	
ŠITA~b1 12A3E		PC25							
26× IV: 7p/4u; III: 16p/2u	o0981237	ZATU527	12A3E		12A3E	12A3E			
ŠITA~b2 12A3F		PC25							
6× IV: 1p; III: 4p/2u	o0981238	ZATU527	12A3F						
ŠITA~b2@gxHI@g~a 12A40		PC25					 (b1) 12A40		
AKA: ŠITA~b1xHI@g~a CDLI: ŠITA~b1xHI@g~a			12A40						
1× IV: 1p; III: 1p	o0981239								
ŠITA~b3 12A41		PC25						12A41	
6× IV: 3p; III: 5p	o0981240	ZATU527	12A41		12A41			12A41	
ŠITA~b3xNAM ₂ 12A42		PC25							
1× IV: 1p; III: 1p	o0981241		12A42						
ŠITA~c		EDI							
	o0981242		F24EB						
ŠITA@g~a 12A43		PC25							
24× IV: 6p/1u; III: 16p/4u	o0981243	ZATU530	12A43	 1 F21A5			F21A5	F21A5	
ŠITA@g~a1(N04)		UNP							
1× III: 1u	o0981244	ZATU531	F247B						
ŠITA@g~a1(N06) 12A44		PC25							
4× III: 3p/1u	o0981245		12A44					12A44	
ŠITA@g~b 12A45		PC25							
4× III: 3p/1u	o0981246	ZATU530	12A45						
ŠU 12A46		PC25							
610× IV: 46p/8u; III: 378p/169u	o0981247	ZATU532	12A46		12A46	12A46	12A46	12A46	
ŠUx1(N58) 12A47		PC25							
1× III: 1p	o0981248		12A47						

ŠU&ŠU 12A48		PC25							
22x IV: 1p; III: 20p/2u	o0981249		12A48				12A48	12A48	
ŠU@g 12A49		PC25			12A49	12A49	12A49	12A49	
4x III: 4p	o0981250	ZATU533							
ŠU@s	EDI								
			F24EC						
ŠU ₂ 12A4A	<	PC25	1 F21A9						
			12A4A						
			2 F21AA						
			3 F21AB						
			4 F21AC						
			5 F21AD						
385x	IV: 65p/40u; III: 253p/46u	o0981252	ZATU534						
ŠU ₂ .AN		UNP							
AKA: ŠU ₂ +AN ŠU ₂ .AN ŠU ₂ ×AN			12A4A						
4x III: 2u	o0981253								
ŠU ₂ .E ₂ ~a		PC25-sq							
9x III: 8p/1u	o0981254	ZATU535	F2267				F2267		
ŠU ₂ .E ₂ ~b		PC25-sq							
13x III: 10p/3u	o0981255	ZATU535	F2268						
ŠU ₂ .EN~a		PC25-sq	1 F21A7						
			F21A6						
			2 F21A8						
40x IV: 9p/3u; III: 27p/4u	o0981256	ZATU536	F21A8						
ŠU ₂ .EN~b		UNP							
2x IV: 2u	o0981257	ZATU536	F2269						
ŠU ₂ .GIŠ		ZERO							
	o0981258		F226A						
ŠU ₂ .((HI×1(N57))&(HI×1(N57)))		PC25-sq							
AKA: ŠU ₂ .((HI+1(N57))+(HI+1(N57)))			F226B						
CDLI: ŠU ₂ .((HI+1(N57))+(HI+1(N57)))									
1x III: 1p	o0981259								
ŠU ₂ .PAP~a		PC25-sq							
1x III: 1p	o0981260		12A4A						
ŠU ₂ .URI ₃ ~a		PC25-sq							
1x III: 1p	o0981261		F226E				F226E		

ŠU ₂ .1(N02)	UNP							
2× IV: 1u; III: 1p/1u o0981262		F226F						
ŠU ₂ .1(N24)	PC25-sq							
AKA: ŠU ₂ ×1(N24)		F2270						
1× III: 1p o0981263								
ŠU ₂ .2(N57)	EDI							
		F2271						
ŠU ₂ ×3(N57)	UNP							
AKA: ŠU ₂ ×3(N57)		F251D						
1× o0981265								
ŠU ₁₂ 12A4B	PC25							
1× III: 1p o0981266	ZATU538	12A4B		12A4B				
ŠUBUR 12A4C	PC25							
345× IV: 41p/7u; III: 223p/98u o0981267	ZATU539	12A4C	12A4C	12A4C	12A4C	12A4C	12A4C	
			1 F21AE					
ŠUM 12A4D	PC25							
35× IV: 14p; III: 23p/4u o0981268	ZATU541	12A4D		12A4D	12A4D	12A4D	12A4D	
ŠUR ₂ ×1(N58) 12A4E	PC25							
4× III: 4p o0981269		12A4E						12A4E
ŠUR _{2~a} 12A4F	PC25							
14× III: 8p/6u o0981270	ZATU543	12A4F		12A4F				
ŠUR _{2~b} 12A50	PC25							
13× III: 7p/6u o0981271	ZATU543	12A50						12A50
ŠUR _{2~c}	UNP							
2× o0981272	ZATU543	F2533						
ŠURUPPAK~a	PC25-sq							
48× IV: 3u; III: 37p/10u o0981273	ZATU544	1 F21B0						
								
ŠURUPPAK~b	PC25-sq							
10× IV: 1u; III: 8p/2u o0981274	ZATU544	1 F21B2						
								
ŠURUPPAK~c	EDI							
		F2263						
TA~a 12A51	PC25							
5× IV: 1u; III: 4p o0981276	ZATU545	12A51						

TA~b 12A52		PC25 o0981277 ZATU545					
1× III: 1p							
TA~c 12A53		PC25 o0981278 ZATU545					
23× IV: 2p/2u; III: 16p/3u							
TA~d 12A54		PC25 o0981279 ZATU545					
2× III: 1p/1u							
TA~d×MAŠ		UNP o0981280					
1× III: 1u							
TA~e 12A55		PC25 o0981281 ZATU545					
1× III: 1p							
TA~f		EDI o0981282					
TAG~a1 12A56		PC25 o0981283 ZATU547					
25× IV: 16p; III: 8p/2u							
TAG~a1@t 12A57		PC25 o0981284					
1× IV: 1p							
TAG~a2 12A58		PC25 o0981285 ZATU547					
9× III: 7p/2u							
TAG~a3 12A59		PC25 o0981286 ZATU547					
2× III: 2p							
TAG~a4 12A5A		PC25 o0981287 ZATU547					
2× IV: 1p; III: 2p							
TAG~b 12A5B		PC25 o0981288 ZATU547					
14× IV: 2p/1u; III: 13p			 1 F21B3				
TAG~c 12A5C		PC25 o0981289 ZATU547					
1× III: 1p							
TAG~d 12A5D		PC25 o0981290 ZATU547					
3× III: 2p/1u							
TAK ₄ ~a 12A5E		PC25 o0981291 ZATU548	 1 F21B4				
188× IV: 6p/3u; III: 123p/58u							
TAK ₄ ~a@n 12A5F		PC25 o0981292					
1× III: 1p							
TAK ₄ ~c 12A60		PC25 o0981293 ZATU548					
3× III: 2p/1u							

TAR~a 12A61		PC25					
100x IV: 5p; III: 80p/16u	o0981294	ZATU549	12A61		12A61		12A61
TAR~d	EDI		X F24EE	X			
	o0981295						
TE 12A62	X	PC25	X	X	X	X	X
AKA: TE~a 350x IV: 63p/5u; III: 239p/86u	o0981296	ZATU550	12A62	12A62	12A62	12A62	12A62
TI 12A63	←	PC25	← 12A63 1 F21B5	← 12A63	← (a) 12A63 F21B5	← (a) 12A63 F21B5	← (a) 12A63 F21B5
AKA: TI~a 103x IV: 9p/8u; III: 62p/34u	o0981297	ZATU551					
TI@g 12A64	←	PC25	← 12A64	← 12A64	← (a) 12A64		
1x III: 1p	o0981298						
TI@r 12A65	→	PC25	→ 12A65	→ 12A65			
2x III: 2p	o0981299						
TI@t 12A66	↑	PC25	↑ 12A66	↑ 12A66	↑ (b) 12A66	↑ (b) 12A66	
17x IV: 1p; III: 13p/4u	o0981300						
TIDNUM		PC25-sq	X F2241	X F2241	X F2241		
1x III: 1p	o0981301	ZATU552					
TILLA ₂ 12A67	*	PC25	*	*	*		
6x IV: 1p; III: 5p/1u	o0981302	ZATU553	12A67	12A67			
TU~a 12A68	○	PC25	○ 12A68	○ 12A68	○ 12A68		
27x IV: 4p; III: 16p/7u	o0981303	ZATU554					
TU~b 12A69	○	PC25	○ 12A69	○ 12A69		○ 12A69	○ 12A69
29x IV: 1u; III: 26p/2u	o0981304	ZATU554					
TU~c 12A6A	○	PC25	○ 12A6A	○ 12A6A			
1x IV: 1p	o0981305	ZATU554					
TUG ₂ ~a 12A6B	○	PC25	○ 12A6B 1 F21B6 2 F21B7	○ F21B6	○ 12A6B	○ F21B7	○ 12A6B
365x IV: 31p/26u; III: 194p/124u	o0981306	ZATU555					
TUG ₂ ~a.BAD&BAD		PC25-sq	○ F21B8	○ 1 F21B9			
CDL: TUG ₂ ~a.(BAD&BAD)							
35x IV: 1p/2u; III: 23p/10u	o0981307	ZATU556					
		ZATU558					

TUG ₂ ~a@g 12A6C		PC25						
19x IV: 2u; III: 17p o0981308 ZATU557		PC25						
TUG ₂ ~b 12A6D		PC25						
2x IV: 1p; III: 2p o0981309 ZATU555		PC25						
TUG ₂ ~c 12A6E		PC25						
1x III: 1p o0981310 ZATU555		PC25						
TUG ₂ ~d		UNP						
1x IV: 1u o0981311 ZATU555		UNP						
TUM~a 12A6F		PC25						
34x IV: 9p/2u; III: 17p/10u o0981312 ZATU560		PC25						
TUM~a@g 12A70		PC25						
2x IV: 1p; III: 1u o0981313		PC25						
TUM~b 12A71		PC25						
6x IV: 2p; III: 4p/2u o0981314 ZATU560		PC25						
TUM~c 12A72		PC25						
13x IV: 1p; III: 12p o0981315 ZATU560		PC25						
TUM~d 12A73		PC25						
3x IV: 1p; III: 3p o0981316 ZATU560		PC25						
TUN ₃ ~a 12A74		PC25						
108x IV: 35p/2u; III: 53p/19u o0981317 ZATU561		PC25						
TUN ₃ ~b 12A75		PC25						
3x III: 3p o0981318 ZATU561		PC25						
TUN ₃ ~c 12A76		PC25						
4x IV: 1p; III: 2p/1u o0981319 ZATU561		PC25						
TUR 12A77		PC25						
381x IV: 31p/6u; III: 243p/101u o0981320 ZATU562		PC25						
TUR~X		EDI						
		o0981321						
TUR@g 12A78		PC25						
9x IV: 1p; III: 7p/2u o0981322		PC25						

TUR ₃ ~a 12A79		PC25						
171× IV: 19p/4u; III: 126p/31u	o0981323	ZATU563	12A79	12A79	12A79	12A79	12A79	12A79
TUR ₃ ~a.5(N57)		PC25-sq						
1× III: 1p	o0981324		12A79					
TUR ₃ ~a@n CDL: TUR ₃ ~a@n		UNP						
1×	o0981325		F247E					
TUR ₃ ~b 12A7A		PC25						
9× IV: 1p/2u; III: 7p	o0981326	ZATU563	12A7A	12A7A	12A7A			
TUR ₃ ~b×TAK ₄ ~a		EDI						
	o0981327		F2512					
TUR ₃ ~c 12A7B		PC25						
1× IV: 1p	o0981328	ZATU563	12A7B					
U ₂ ~a 12A7C		PC25						
145× IV: 10p/1u; III: 103p/35u	o0981329	ZATU565	12A7C	12A7C	12A7C			12A7C
U ₂ ~b 12A7D		PC25						
170× IV: 15p/2u; III: 102p/59u	o0981330	ZATU565	¹ F21C0 12A7D ² F21C1			12A7D		12A7D F21C0
U ₂ ~c 12A7E		PC25						
1× IV: 1p	o0981331	ZATU565	12A7E					
U ₄ 12A7F		PC25						
602× IV: 77p/13u; III: 435p/112u	o0981332	ZATU566	12A7F	12A7F	12A7F	12A7F	12A7F	12A7F
U ₄ .ŠU ₂ U ₄ .1(N08)		PC25-sq						
11× IV: 2p; III: 9p/2u	o0981333	ZATU568	F2275	F2275	F2275			
48× III: 32p/16u	o0981334		F2276				F2276	
U ₄ .2(N08)		PC25-sq						
12× IV: 1p; III: 11p	o0981335		F2277				F2277	
U ₄ .3(N08)		PC25-sq						
10× III: 8p/2u	o0981336		F2278				F2278	
U ₄ .4(N08)		PC25-sq						
2× III: 2p	o0981337		F2279				F2279	
U ₄ .5(N08)		PC25-sq						
6× III: 5p/1u	o0981338		F227A				F227A	
U ₄ .6(N08)		PC25-sq						
4× III: 4p	o0981339		F227B					

 U₄.7(N08) 	PC25-sq						
2× III: 1p/1u	o0981340	F227C					
 U₄.8(N08) 	PC25-sq						
1× III: 1p	o0981341	F227D					
 U₄.1(N14) 	PC25-sq						
1× III: 1p	o0981342	F227E					
 U₄.1(N14).1(N08) 	PC25-sq						
AKA: (U ₄ +1(N14)).1(N08)		12A7F					
1× III: 1p	o0981343						
 U₄.1(N14).3(N08) 	PC25-sq						
CDLI: U ₄ .(1(N14).3(N08))		F227F					
2× III: 2p	o0981344						
 U₄.1(N14).4(N08) 	PC25-sq						
CDLI: U ₄ .(1(N14).4(N08))		F2280				F2280	
1× III: 1p	o0981345						
 U₄.1(N14).5(N08) 	PC25-sq						
CDLI: U ₄ .(1(N14).5(N08))		F2281				F2281	
4× III: 2p/2u	o0981346						
 U₄.1(N14).8(N08) 	PC25-sq						
CDLI: U ₄ .(1(N14).8(N08))		F2282					
1× III: 1p	o0981347						
 U₄.2(N14) 	PC25-sq						
2× III: 2p	o0981348	F2283					
 U₄.1(N24) 	PC25-sq						
3× III: 3p	o0981349	F2284					F2284
 U₄×X 	PC25-bk						
2× III: 1p/1u	o0981350	F247F					
 U₄×(X+2(N01)) 	UNP						
1× III: 1u	o0981351	F2480					
 U₄×1(N01) 	PC25						
12A80							
38× IV: 1p; III: 31p/7u	o0981352 ZATU569	12A80				12A80	
 U₄×1(N01).5(N08) 	PC25-sq						
2× III: 1p/1u	o0981353	F2285				F2285	
 U₄×(1(N01).1(N24)) 	PC25						
12A81							12A81
AKA: U ₄ ×1(N01)+1(N24)							
2× III: 2p	o0981354	12A81					
 U₄×2(N01) 	PC25-bk						
14× III: 13p/1u	o0981355	F2481				F2481	F2481
 U₄×2(N01).X 	PC25-sq						
1× III: 1p	o0981356	F2482					
 U₄×2(N01).2(N14) 	PC25-sq						
1× III: 1p	o0981357	F2286					
 U₄×2(N01).2(N14).1(N08) 	PC25-sq						
CDLI: U ₄ ×2(N01).(2(N14).1(N08))		F2287					F2287
1× III: 1p	o0981358						

$ U_4 \times 3(N01) $	PC25							
12A82								
5x III: 3p/2u	o0981359							
$ U_4 \times 3(N01).3(N08) $	UNP							
1x III: 1u	o0981360	F2288						
$ U_4 \times 4(N01) $	PC25							
12A83								
7x III: 6p/1u	o0981361							
$ U_4 \times 4(N01).2(N14) $	UNP							
1x III: 1u	o0981362	F2289						
$ U_4 \times 5(N01) $	PC25							
12A84								
3x III: 2p/1u	o0981363							
$ U_4 \times 5(N01).1(N14) $	PC25-sq							
1x III: 1p	o0981364	F228A						
$ U_4 \times 6(N01) $	PC25							
12A85								
3x III: 1p/2u	o0981365							
$ U_4 \times 8(N01) $	PC25							
12A86								
2x III: 2p	o0981366							
$ U_4 \times 8(N01).X $	PC25-sq							
1x III: 1p	o0981367	F2483						
$ U_4 \times N(N01) $	UNP							
CDL: $ U_4 \times (X(N01)) $		F2484						
1x III: 1u	o0981368							
$ U_4 \times 1(N01@f) $	EDI							
CDL: $ U_4 \times 1(N01)F $		F2513						
o0981369								
$ U_4 \times 1(N14) $	PC25							
12A87								
5x III: 1p/4u	o0981370							
$ U_4 \times (1(N14).1(N01)) $	PC25							
12A88								
1x III: 1p	o0981371							
$ U_4 \times (1(N14).2(N01)) $	PC25							
12A89								
10x III: 10p	o0981372							
$ U_4 \times (1(N14).3(N01)) $	UNP							
1x III: 1u	o0981373	F253C						
$ U_4 \times (1(N14).3(N01)).1(N14).4(N08) $	UNP							
AKA: $ U_4 \times (1(N14).3(N01)).(1(N14).4(N08)) $		F253C						
1x III: 1u	o0981374							
$ U_4 \times (1(N14).4(N01)) $	PC25							
12A8A								
1x III: 1p	o0981375							

$ U_4 \times (1(N14).8(N01)) $ 12A8B 2x III: 2p	o0981376	PC25	12A8B				12A8B	
$ U_4 \times 2(N14) $ o0981377	ZERO		F2485				F2485	
$ U_4 \times (2(N14).4(N01)) $ 12A8C 1x III: 1p	o0981378	PC25	12A8C				12A8C	
$ U_4 \times (3(N14).2(N01)) $ 12A8D 1x III: 1p	o0981379	PC25	12A8D				12A8D	
$ U_4 \times (3(N14).7(N01)) $ 12A8E 1x III: 1p	o0981380	PC25	12A8E					
$ U_4 \times 1(N57) $ 12A8F 159x III: 132p/23u	o0981381	PC25	12A8F			12A8F	12A8F	12A8F
$ U_4 \times 2(N57) $ 12A90 57x IV: 1p; III: 43p/9u	o0981382	PC25	12A90		12A90		12A90	12A90
$ U_4 \times 3(N57) $ 12A91 43x IV: 1u; III: 30p/10u	o0981383	PC25	12A91			12A91	12A91	12A91
$ U_4 \times 4(N57) $ 12A92 9x III: 7p/1u	o0981384	PC25	12A92				12A92	12A92
$ U_4 \times 5(N57) $ 12A93 5x III: 5p	o0981385	PC25	12A93				12A93	12A93
$ U_4 \times 6(N57) $ 12A94 9x III: 8p/1u	o0981386	PC25	12A94				12A94	12A94
$ U_4 \times 7(N57) $ 12A95 3x III: 3p	o0981387	PC25	12A95				12A95	
$ U_4 \times 8(N57) $ 12A96 3x III: 3p	o0981388	PC25	12A96				12A96	
$ U_4 \times 10(N57) $ 12A97 2x III: 2p	o0981389	PC25	12A97					
$ U_4 \times 1(N58@t) $ 12A98 2x III: 2p	o0981390	PC25	12A98					
AKA: $ U_4 \times 1(N58)@t $ CDL: $ U_4 \times 1(N58)@t $								

U₄@t 12A99		PC25						
1× III: 1p	o0981391							
U₈ 12A9A		PC25	 1 F21C2 2 12A9A 2 F21C3 3 F21C4				 12A9A F21C3 F21C4	
186× IV: 32p; III: 118p/62u	o0981392	ZATU571						
 U₈×TAR~b 12A9B		PC25						
CDLI: (U ₈ ×TAR)~b 2× III: 1p/1u	o0981393							
UB 12A9C		PC25						
186× IV: 21p/5u; III: 152p/19u	o0981394	ZATU572						
UBI~a 12A9D		PC25						
2× IV: 2p; III: 2p	o0981395	ZATU573						
UBI~c 12A9E		PC25	 1 F21C5					
8× III: 8p	o0981396	ZATU573						
UBI~d 12A9F		PC25						
2× III: 2p	o0981397	ZATU573						
UD₅~a 12AA0		PC25	 1 F21C6 2 12AA0 2 F21C7			 F21C6 12AA0 F21C7		
224× IV: 46p/2u; III: 132p/83u	o0981398	ZATU574						
UD₅~a@g 12AA1		PC25						
1× III: 1p	o0981399							
UD₅~b 12AA2		PC25						
2× IV: 2p; III: 2p	o0981400	ZATU574						
UD₅~c 12AA3		PC25						
2× IV: 2p; III: 2p	o0981401	ZATU574						
UDU~a 12AA4		PC25						
AKA: UDU 586× IV: 77p/17u; III: 379p/148u	o0981402	ZATU575						

UDU~a×TAR~a 12AA5		PC25						
CDLI: (UDU~a×TAR)~a 8× IV: 2p; III: 2p/4u o0981403 ZATU576								
UDU~a×TAR~b 12AA6		PC25						
CDLI: (UDU~a×TAR)~b 19× III: 10p/9u o0981404 ZATU576								
UDU~b		UNP						
1× IV: 1u o0981405 ZATU575			F2486					
UDU~c 12AA7		PC25						
6× IV: 1u; III: 4p/1u o0981406 ZATU575				12AA7				
UDUNITA~a 12AA8		PC25						
198× IV: 33p; III: 122p/73u o0981407 ZATU578			12AA8		12AA8	12AA8	12AA8	12AA8
UDUNITA~b 12AA9		PC25						
1× IV: 1p; III: 1p o0981408 ZATU578			12AA9			12AA9		
UDUNITA~c 12AAA		PC25						
14× IV: 7p; III: 13p o0981409 ZATU578			12AAA			12AAA		
UH		UNP						
1× III: 1u o0981410			F2487					
UH~a 12AAB		PC25						
13× IV: 2p; III: 9p/4u o0981411 ZATU579			12AAB		12AAB	12AAB		
UH~a@t 12AAC		PC25						
2× IV: 1p; III: 1p o0981412			12AAC		12AAC			
UH~b 12AAD		PC25						
4× IV: 1p; III: 4p o0981413 ZATU579			12AAD			12AAD		
UKKIN~a 12AAE		PC25	1 F21C8	2 12AAE		1 F21C8	2 12AAE	
155× IV: 34p/9u; III: 112p/23u o0981414 ZATU580			12AAE		12AAE	12AAE	12AAE	12AAE
UKKIN~b 12AAF		PC25	1 F21C9	2 12AAF	3 F21CA			
13× III: 11p/2u o0981415 ZATU580			12AAF		12AAF			12AAF
UKKIN~b×DIN 12AB0		PC25						
6× III: 5p/1u o0981416			12AB0				12AB0	
UKKIN~b×(DIN.1(N01)) 12AB1		PC25						
1× III: 1p o0981417			12AB1					

UKKIN~bxDUG~a		EDI						
	o0981418		F2514					
UKKIN~b@HI@g~a		PC25						
12AB2			12AB2					
1x III: 1p	o0981419							
UKKIN~b@NI~a		PC25						
12AB3			12AB3					
2x III: 2p	o0981420							
UKKIN~b@X		PC25-bk						
			F2488					
1x III: 1p	o0981421							
UKKIN~b@2(N01)		PC25						
12AB4			12AB4					
1x III: 1p	o0981422							
UKKIN~b@3(N01)		PC25						
12AB5			12AB5					
1x III: 1p	o0981423							
UKKIN~b@5(N01)		PC25						
12AB6			12AB6					
1x III: 1p	o0981424							
UKKIN~c		PC25						
12AB7			12AB7					
1x IV: 1p	o0981425	ZATU580				12AB7		
UKKIN~d		UNP						
			ZATU580					
1x o0981426								
UMBIN~a		PC25						
12AB8			12AB8			12AB8		12AB8
40x IV: 27p/3u;								
III: 27p/3u	o0981427	ZATU581						
UMBIN~b1		PC25						
12AB9			12AB9					
2x IV: 2p	o0981428	ZATU581						
UMBIN~b2		PC25						
12ABA			12ABA			12ABA		
1x IV: 1p	o0981429	ZATU581						
UMBIN~c		PC25						
12ABB			12ABB			12ABB		
1x IV: 1p; III: 1p	o0981430	ZATU581						
UMUN ₂		PC25						
12ABC			12ABC			12ABC		12ABC
160x IV: 19p/2u;								
III: 109p/43u	o0981431	ZATU582						
UNUG~a		PC25						
12ABD			12ABD			12ABD		12ABD
266x IV: 71p/8u;								
III: 186p/56u	o0981432	ZATU583						
UNUG~a@t		PC25						
12ABE			12ABE			12ABE		
1x IV: 1p; III: 1p	o0981433	ZATU584						

UNUG~a@s 12ABF		PC25						
2× IV: 1p; III: 1p/1u o0981434	ZATU585		12ABF					
UNUG~b 12AC0		PC25						
6× IV: 1p; III: 6p o0981435	ZATU583		12AC0					
UNUG~c 12AC1		PC25						
3× IV: 3p o0981436	ZATU583		12AC1					
UR~a 12AC2		PC25						
AKA: UR 75× IV: 3p/4u; III: 42p/26u o0981437	ZATU586		12AC2		12AC2	12AC2	12AC2	12AC2
UR~a×KAR ₂ ~b AKA: UR~a×KAR ₂ ~b CDLI: UR~a×KAR ₂ ~b 1× III: 1u o0981438	UNP							
UR~a@g 12AC3		PC25						
2× IV: 2p; III: 2p o0981439	ZATU587		12AC3			12AC3		
UR~b 12AC4		PC25						
8× IV: 1u; III: 7p o0981440	ZATU586		12AC4					
UR~c 12AC5		PC25						
3× IV: 1p/1u; III: 1p o0981441	ZATU586		12AC5					12AC5
UR ₂ 12AC6		PC25						
107× IV: 13p/2u; III: 77p/24u o0981442	ZATU588		12AC6		12AC6	12AC6	12AC6	12AC6
UR ₂ ×TAR~c 12AC7		PC25						
AKA: UR ₂ ×TAR CDLI: UR ₂ ×TAR 4× IV: 2p; III: 2p o0981443	ZATU590		12AC7		12AC7			
UR ₂ ×1(N57) 12AC8		PC25						
15× IV: 6p/1u; III: 11p/2u o0981444	ZATU589		12AC8		12AC8			
UR ₃ ~a1 12AC9		PC25						
4× IV: 4p; III: 2p o0981445	ZATU591		12AC9					
UR ₃ ~a2 12ACA		PC25						
6× III: 6p o0981446	ZATU591		12ACA		12ACA			
UR ₃ ~a3 12ACB		PC25						
8× III: 7p/1u o0981447	ZATU591		12ACB					
UR ₃ ~b1 12ACC		PC25						
12× IV: 5p/2u; III: 4p o0981448	ZATU591		12ACC		12ACC			

UR ₃ ~b1×MAŠ		UNP							
1× IV: 1u	00981449								
UR ₃ ~b2		PC25							
11× IV: 2p/1u; III: 5p/3u	00981450	ZATU591	1 						
UR ₃ ~d2		UNP							
1×	00981451	ZATU591							
UR ₄ ~a		PC25							
12ACE									
13× IV: 1p; III: 9p/3u	00981452	ZATU592		12ACE	12ACE				
UR ₄ ~b		PC25							
12ACF									
18× III: 15p/3u	00981453	ZATU592		12ACF	12ACF				12ACF
UR ₄ ~c		PC25							
12AD0									
3× IV: 2p; III: 1p	00981454	ZATU592		12AD0					
UR ₅ ~a		PC25							
12AD1									
74× IV: 1p/1u; III: 57p/16u	00981455	ZATU593		12AD1				12AD1	12AD1
UR ₅ ~b		PC25							
12AD2									
4× III: 4p	00981456	ZATU593		12AD2	12AD2				
URI		PC25							
12AD3									
29× IV: 1p/1u; III: 20p/7u	00981457	ZATU594		12AD3	12AD3		12AD3	12AD3	12AD3
URI ₂		EDI							
	00981458			F228E					
URI ₃ ~a		PC25							
12AD4									
110× IV: 7p; III: 58p/45u	00981459	ZATU595	1 	F21CF				F21CF	F21CF
URI ₃ ~a+IB~a		EDI							
	00981460			F228D					
URI ₃ ~b		PC25-sq							
	1× IV: 1p	00981461	ZATU595	F228C					
URI ₅		PC25							
12AD5									
8× III: 4p/4u	00981462	ZATU596		12AD5	12AD5				
URU~a1		PC25							
12AD6									
169× IV: 9p/3u; III: 112p/46u	00981463	ZATU597		12AD6	12AD6		12AD6	12AD6	12AD6
URU~a1×A		EDI							
	00981464			F2515					

 URU~a1×AMAR 			PC25							
12AD7										
2×	IV: 2p; III: 2p	o0981465	ZATU598							
 URU~a1×GU₄ 			UNP							
1×	III: 1u	o0981466								
 URU~a1×HI@g~a 			PC25							
12AD8										
1×	III: 1p	o0981467								
 URU~a1×KI 			PC25							
12AD9										
2×	III: 2p	o0981468								
 URU~a1×NIMGIR 			PC25							
12ADA										
1×	IV: 1p; III: 1p	o0981469	ZATU600							
 URU~a1×U₄ 			PC25							
12ADB										
1×	III: 1p	o0981470								
 URU~a1×X 			PC25-bk							
2×	IV: 1p; III: 2p	o0981471								
 URU~a1×1(N57) 			PC25-sq							
1×	IV: 1p	o0981472	ZATU601							
 URU~a1×2(N57) 			UNP							
1×	IV: 1u	o0981473	ZATU601							
 URU~a1×3(N57) 			PC25							
12ADC										
5×	III: 5p	o0981474								
URU~a1@n			UNP							
CDLI: URU~a1@n										
1×	III: 1u	o0981475								
URU~a2			PC25							
12ADD										
3×	IV: 3p; III: 2p	o0981476	ZATU597							
 URU~a2×1(N58) 			PC25							
12ADE										
AKA: URU~a1+1(N58)										
3×	IV: 2p; III: 3p	o0981477	ZATU601							
 URU~a3×KALAM~a 			PC25							
12ADF										
1×	IV: 1p	o0981478	ZATU599							
URU~b1			PC25							
12AE0										
2×	IV: 2p; III: 2p	o0981479	ZATU597							
URU~b2			PC25							
12AE1										
4×	IV: 4p; III: 3p	o0981480	ZATU597							
URU~c			PC25							
12AE2										
2×	IV: 2p; III: 2p	o0981481	ZATU597							

URUDU~a 12AE3		PC25	 1 F21D0	 2 F21D1		 F21D1	 F21D0	 F21D1	
40× IV: 8p/1u; III: 24p/11u	o0981482	ZATU602							
URUDU~c 12AE4		PC25							
3× IV: 1p; III: 2p/1u	o0981483	ZATU602							
URUDU~d 12AE5		PC25							
1× IV: 1p; III: 1p	o0981484	ZATU602							
URUDU@g~a 12AE6		PC25							
5× IV: 3p/2u; III: 2p	o0981485	ZATU603							
URUDU@g~b		UNP							
1× IV: 1u	o0981486	ZATU603							
URUDU@g~c 12AE7		PC25							
3× III: 3p	o0981487	ZATU603							
URUDU@g~d 12AE8		PC25							
5× III: 2p/3u	o0981488	ZATU603							
UŠ~a 12AE9		PC25							
87× IV: 33p/3u; III: 61p/17u	o0981489	ZATU604							
 UŠ~a&UŠ~a 12AEA		PC25							
9× IV: 9p; III: 9p	o0981490								
UŠ~b 12AEB		PC25							
9× IV: 1p/1u; III: 4p/4u	o0981491	ZATU604							
 UŠ~b×TAR~c 12AEC		PC25							
2× IV: 2p; III: 1p	o0981492	ZATU605							
 UŠ~b×TAR~d 		EDI							
	o0981493								
 UŠ~b&UŠ~b 12AED		PC25							
2× IV: 2p; III: 2p	o0981494								
UŠUMGAL		PC25-sq							
5× III: 3p/2u	o0981495	ZATU607							
UŠUR₃~a		EDI							
	o0981496								
UŠUR₃~b1 12AEE		PC25							
1× III: 1p	o0981497	ZATU608							

UŠUR ₃ -b2 12AEF 1x III: 1p		PC25 o0981498 ZATU608						
UTUA~a 12AF0 123x IV: 40p/3u; III: 70p/46u		PC25 o0981499 ZATU609						
UTUA~a@t 12AF1 1x IV: 1p; III: 1p		PC25 o0981500						
UTUA~b 12AF2 14x IV: 4p; III: 12p/2u		PC25 o0981501 ZATU609						
UTUL~a 12AF3 38x IV: 3p/1u; III: 30p/7u		PC25 o0981502 ZATU610						
UTUL~b 12AF4 1x IV: 1p; III: 1p		PC25 o0981503 ZATU610						
UTUL~c 12AF5 1x IV: 1p; III: 1p		PC25 o0981504 ZATU610						
UTUL~d 12AF6 1x IV: 1p; III: 1p		PC25 o0981505 ZATU610						
UZ~a 6x III: 1p/2u		PC25-sq o0981506 ZATU611						
UZU 12AF7 2x III: 1p/1u		PC25 o0981507						
X ₂ AKA: 2(N57).DU ₆ -a@n 1x III: 1p		PC25-sq o0981508						
ZA~v 12AF8 CDL: ZA~x 9x III: 9p		PC25 o0981509 ZATU612						
ZABALAM~a AKA: ZABALA~a 48x III: 31p/17u		PC25-sq o0981510 ZATU613						
ZABALAM~b 1x III: 1u		UNP o0981511 ZATU613						
ZADIM		EDI o0981512						

ZAG~a 12AF9		PC25						
75× IV: 2p/1u; III: 58p/15u	o0981513	ZATU615						
ZAG~b 12AFA		PC25						
2× IV: 2p; III: 2p	o0981514	ZATU615						
ZAG~c 12AFB		PC25						
7× IV: 4p; III: 4p	o0981515	ZATU615						
ZAR~a 12AFC		PC25						
2× III: 2p	o0981516	ZATU616						
ZAR~b1 12AFD		PC25						
2× IV: 2p; III: 1p	o0981517	ZATU616						
ZAR~b2 12AFE		PC25						
3× IV: 3p	o0981518	ZATU616						
ZAR~c 12AFF		PC25						
8× IV: 6p/1u; III: 6p	o0981519	ZATU616						
ZI~a 12B00		PC25						
125× IV: 3p/1u; III: 91p/31u	o0981520	ZATU617						
ZI~b 12B01		PC25						
2× IV: 2p; III: 2p	o0981521	ZATU617						
ZI~d 12B02		PC25						
2× III: 2p	o0981522	ZATU617						
(ZU&ZU).SAR~a		EDI						
ZUBI~a 12B03		PC25						
1× III: 1p	o0981524	ZATU619						
ZUBI~b		UNP						
1× III: 1u	o0981525	ZATU619						
ZATU620 12B04		PC25						
1× IV: 1p; III: 1p	o0981526	ZATU620						
ZATU621~a 12B05		PC25						
5× IV: 4p; III: 4p	o0981527	ZATU621						
ZATU621~b 12B06		PC25						
3× IV: 3p; III: 2p	o0981528	ZATU621						

ZATU621~c 12B07		PC25						
2x IV: 2p; III: 1p	o0981529	ZATU621						
ZATU621~d 12B08		PC25						
1x IV: 1p	o0981530	ZATU621						
ZATU622 12B09		PC25						
1x IV: 1p; III: 1p	o0981531	ZATU622						
ZATU623 12B0A		PC25						
11x IV: 3p/1u; III: 6p/2u	o0981532	ZATU623						
ZATU624-a 12B0B		PC25						
6x III: 3p/3u	o0981533	ZATU624						
ZATU624-b 12B0C		PC25						
5x III: 1p/4u	o0981534	ZATU624						
ZATU624-c		UNP						
1x III: 1u	o0981535	ZATU624						
ZATU625 12B0D		PC25						
17x IV: 3p/1u; III: 13p/3u	o0981536	ZATU625						
ZATU626-a 12B0E		PC25						
1x IV: 1p; III: 1p	o0981537	ZATU626						
ZATU626-b 12B0F		PC25						
1x IV: 1p	o0981538	ZATU626						
ZATU626-c 12B10		PC25						
1x IV: 1p; III: 1p	o0981539	ZATU626						
ZATU627		UNP						
1x IV: 1u	o0981540	ZATU627						
ZATU628-a 12B11		PC25						
30x III: 15p/15u	o0981541	ZATU628						
¹ F21DC								
ZATU628-b 12B12		PC25						
8x III: 1p/7u	o0981542	ZATU628						
ZATU629 12B13		PC25						
¹ F21DD								
22x IV: 6p; III: 9p/10u	o0981543	ZATU629						
¹ F21DD								

ZATU630 12B14		PC25							
8x IV: 5p/1u; III: 5p o0981544	ZATU630		12B14		12B14	12B14	12B14		
ZATU631 12B15		PC25							
6x IV: 4p; III: 4p/2u o0981545	ZATU631		12B15		12B15	12B15			
ZATU632-a 12B16		PC25							
4x IV: 1p/1u; III: 2u o0981546	ZATU632		12B16		1 F21DE	12B16			
ZATU632-b 12B17		PC25							
1x IV: 1p; III: 1p o0981547	ZATU632		12B17			12B17			
ZATU632-c		UNP							
1x IV: 1u o0981548	ZATU632		F2491						
ZATU633-a 12B18		PC25							
4x III: 3p/1u o0981549	ZATU633		12B18		12B18	12B18			
ZATU633-b 12B19		PC25							
4x III: 4p o0981550	ZATU633		12B19		12B19	12B19			
ZATU634		UNP							
1x IV: 1u o0981551	ZATU634		F2492						
ZATU635 12B1A		PC25							
3x IV: 3p; III: 3p o0981552	ZATU635		12B1A		12B1A	12B1A			
ZATU636 12B1B		PC25							
5x IV: 3p; III: 3p/2u o0981553	ZATU636		12B1B		12B1B	12B1F			
ZATU637 12B1C		PC25							
2x IV: 1p; III: 2p o0981554	ZATU637		12B1C		12B1C	12B1C			
ZATU639 12B1D		PC25							
7x IV: 4p/1u; III: 6p o0981555	ZATU639		12B1D		12B1D	12B1D			
ZATU640		PC25-bk							
1x IV: 1p; III: 1p o0981556	ZATU640		F2493		F2493	F2493			
ZATU641 12B1E		PC25							
1x IV: 1p; III: 1p o0981557	ZATU641		12B1E		12B1E	12B1E			
ZATU642 12B1F		PC25							
2x IV: 2p; III: 2p o0981558	ZATU642		12B1F		12B1F	12B1F			
ZATU643 12B20		PC25							
2x IV: 1p/1u o0981559	ZATU643		12B20		12B20	12B20			
ZATU644-a 12B21		PC25							
57x IV: 8p/3u; III: 48p/2u o0981560	ZATU644		12B21		12B21	12B21			

ZATU644~a×1(N14)		UNP						
1× IV: 1u	o0981561	ZATU645	F2494					
ZATU644~b		PC25						
12B22				12B22	12B22	12B22		
10× IV: 3p/4u; III: 6p/1u	o0981562	ZATU644						
ZATU646		PC25						
12B23				12B23				
10× IV: 2p; III: 2p/6u	o0981563	ZATU646						
ZATU647		PC25						
12B24				12B24	12B24	12B24	12B24	
73× IV: 3p; III: 54p/14u	o0981564	ZATU647	1 F21E0					
ZATU648		PC25						
12B25				12B25	12B25			
53× IV: 2u; III: 39p/12u	o0981565	ZATU648						
ZATU649		PC25						
12B26				12B26				
44× III: 37p/7u	o0981566	ZATU649	1 F21E1					
ZATU650		PC25-bk						
1× IV: 1p	o0981567	ZATU650	F2495			F2495		
ZATU651		PC25						
12B27				1 F21E2				
17× IV: 11p/3u; III: 6p/1u	o0981568	ZATU651	2 F21E3			12B27		
ZATU651×AN		PC25						
12B28				12B28		12B28		
1× III: 1p	o0981569	ZATU652						
ZATU651×EN~a		PC25						
12B29				12B29		12B29		
29× III: 23p/6u	o0981570	ZATU653						
ZATU651×GAR		PC25						
12B2A				12B2A		12B2A		
20× IV: 1p/2u; III: 8p/9u	o0981571	ZATU654						
ZATU651×MA		PC25						
12B2B				12B2B				
1× IV: 1p	o0981572	ZATU655						
ZATU651×NUN~a		PC25						
12B2C				12B2C				
12× IV: 1p; III: 11p/1u	o0981573	ZATU656						
ZATU651×ŠE~a		UNP						
1× III: 1u	o0981574	ZATU657	F2497					

ZATU651×X		PC25-bk						
2x III: 2p	o0981575							
ZATU651×ZAR~c		PC25						
12B2D								
1x IV: 1p	o0981576							
ZATU651@g		PC25						
12B2E								
15x IV: 1p; III: 9p/5u	o0981577	ZATU658						
ZATU659		PC25						
12B2F								
131x								
IV: 14p/6u;								
III: 78p/37u	o0981578	ZATU659						
ZATU659×1(N01)		PC25						
12B30								
20x III: 20p	o0981579							
ZATU659×1(N14)		PC25						
12B31								
1x IV: 1p; III: 1p	o0981580	ZATU661						
ZATU659×1(N58@t)		PC25						
12B32								
AKA: ZATU659×1(N58)@t								
CDLI: ZATU659×1(N58)@t								
1x III: 1p	o0981581	ZATU660						
ZATU659@t		UNP						
1x	o0981582							
ZATU662		PC25						
12B33								
27x IV: 4p/6u;								
III: 19p/1u	o0981583	ZATU662						
ZATU662×1(N14)		PC25						
12B34								
11x IV: 4p/1u; III: 9p	o0981584	ZATU663						
ZATU664		PC25						
12B35								
2x IV: 1p; III: 1p	o0981585	ZATU664						
ZATU665		PC25						
12B36								
1x IV: 1p; III: 1p	o0981586	ZATU665						
ZATU666		PC25						
12B37								
1x IV: 1p	o0981587	ZATU666						

ZATU667 12B38		PC25						
1× IV: 1p; III: 1p	o0981588	ZATU667						
ZATU668 12B39		PC25						
1× IV: 1p	o0981589	ZATU668						
ZATU669 12B3A		PC25						
6× III: 3p/3u	o0981590	ZATU669						
ZATU670		PC25-bk						
1× IV: 1p; III: 1p	o0981591	ZATU670						
ZATU672 12B3B		PC25						
3× IV: 3p; III: 2p	o0981592	ZATU672						
ZATU674 12B3C		PC25						
1× IV: 1p	o0981593	ZATU674						
ZATU675~a 12B3D		PC25						
1× IV: 1p; III: 1p	o0981594	ZATU675						
ZATU675~b 12B3E		PC25						
4× IV: 2p; III: 4p	o0981595	ZATU675						
ZATU675~c 12B3F		PC25						
2× IV: 2p; III: 1p	o0981596	ZATU675						
ZATU675~d 12B40		PC25						
2× III: 2p	o0981597	ZATU675						
ZATU676~a 12B41		PC25						
8× III: 6p/2u	o0981598	ZATU676						
ZATU676~b 12B42		PC25						
7× III: 7p	o0981599	ZATU676						
ZATU677~a 12B43		PC25						
1× IV: 1p; III: 1p	o0981600	ZATU677						
ZATU677~b 12B44		PC25						
1× IV: 1p; III: 1p	o0981601	ZATU677						
ZATU678 12B45		PC25						
5× IV: 4p	o0981602	ZATU678						
ZATU679 12B46		PC25						
8× IV: 4p/2u; III: 4p	o0981603	ZATU679						
ZATU680~a1 12B47		PC25						
1× IV: 1p	o0981604	ZATU680						
ZATU680~a2 12B48		PC25						
1× IV: 1p	o0981605	ZATU680						

ZATU680~b 12B49		PC25	1 F21EA			12B49	12B49			
6× IV: 4p; III: 5p	o0981606	ZATU680								
ZATU680~d 12B4A		PC25						12B4A		
1× IV: 1p	o0981607	ZATU680								
ZATU680~e 12B4B		PC25						12B4B		
1× IV: 1p	o0981608	ZATU680								
ZATU681 12B4C		PC25						12B4C		
10× IV: 1p; III: 9p	o0981609	ZATU681								
ZATU682 12B4D		PC25								12B4D
7× III: 4p/3u	o0981610	ZATU682								
ZATU683~a 12B4E		PC25						12B4E		
1× IV: 1p	o0981611	ZATU683								
ZATU683~b 12B4F		PC25								
2× IV: 2p	o0981612	ZATU683								
ZATU683@t		UNP								
CDL: ZATU683@t										
1× III: 1u	o0981613									
ZATU684 12B50		PC25								
2× III: 1p/1u	o0981614	ZATU684								
ZATU685 12B51		PC25						12B51		
1× IV: 1p	o0981615	ZATU685								
ZATU686~a 12B52		PC25								
40× IV: 1p/1u; III: 25p/14u	o0981616	ZATU686								12B52
ZATU686~b 12B53		PC25								
14× III: 9p/5u	o0981617	ZATU686								12B53
ZATU686~c 12B54		PC25								
2× III: 2p	o0981618	ZATU686								
ZATU687 12B55		PC25						12B55		
15× IV: 3p; III: 4p/9u	o0981619	ZATU687								
ZATU688~a 12B56		PC25								
4× IV: 4p	o0981620	ZATU688								
ZATU688~b 12B57		PC25						12B57		
1× IV: 1p; III: 1p	o0981621	ZATU688								
ZATU689 12B58		PC25						12B58		
3× IV: 3p; III: 3p	o0981622	ZATU689								

ZATU690 12B59		PC25							
2× IV: 1p/1u; III: 1p o0981623	ZATU690	12B59							
ZATU691 12B5A		PC25							
1× IV: 1p o0981624	ZATU691	12B5A							
ZATU692 12B5B		PC25							
1× IV: 1p; III: 1p o0981625	ZATU692	12B5B							
ZATU693 12B5C		PC25							
31× IV: 29p/1u; III: 25p o0981626	ZATU693	12B5C							
12B5D		PC25							
1× IV: 1p; III: 1p o0981627		12B5D							F21ED
12B5E		PC25							
3× IV: 3p; III: 1p o0981628	ZATU694	12B5E							
ZATU694~b 12B5F		PC25							
10× IV: 9p; III: 3p o0981629	ZATU694	12B5F							
ZATU694~c 12B60		PC25							
74× IV: 2p; III: 19p/53u o0981630	ZATU694	12B60							
¹ F21EE									
ZATU694~d 12B61		PC25							
16× IV: 14p; III: 5p o0981631	ZATU694	12B61							
ZATU694~d@t 12B62		PC25							
2× IV: 2p o0981632		12B62							
ZATU694~e		ZERO							
o0981633	ZATU694	F2529							
ZATU695 12B63		PC25							
5× IV: 4p; III: 1u o0981634	ZATU695	12B63							
ZATU696 12B64		PC25							
5× IV: 1p; III: 5p o0981635	ZATU696	12B64							

ZATU697~a 12B65		PC25	 						
34x IV: 9p; III: 20p/12u	o0981636	ZATU697							
ZATU697~b 12B66		PC25							
7x IV: 3p/2u; III: 2p/1u	o0981637	ZATU697							
ZATU697~c		UNP							
2x III: 2u	o0981638	ZATU697							
ZATU699~a		UNP							
1x IV: 1u	o0981639	ZATU699							
ZATU699~b 12B67		PC25							
1x IV: 1p	o0981640	ZATU699							
ZATU700 12B68		PC25							
2x IV: 1p; III: 1p	o0981641	ZATU700							
ZATU701 12B69		PC25							
1x IV: 1p	o0981642	ZATU701							
ZATU702 12B6A		PC25							
3x IV: 1p; III: 3p	o0981643	ZATU702							
ZATU703 12B6B		PC25							
21x IV: 3p; III: 18p/3u	o0981644	ZATU703							
ZATU704		PC25-bk							
3x IV: 2p; III: 1p	o0981645	ZATU704							
ZATU705 12B6C		PC25							
1x IV: 1p; III: 1p	o0981646	ZATU705							
ZATU706 12B6D		PC25							
2x IV: 2p	o0981647	ZATU706							
ZATU707~a 12B6E		PC25							
11x IV: 1u; III: 9p/1u	o0981648	ZATU707							
ZATU707~b 12B6F		PC25							
2x IV: 2p	o0981649	ZATU707							
ZATU708 12B70		PC25							
2x IV: 1p; III: 2p	o0981650	ZATU708							

ZATU709 12B71		PC25						
1x IV: 1p; III: 1p	o0981651	ZATU709						
ZATU710 12B72		PC25						
52x III: 46p/5u	o0981652	ZATU710						
ZATU711 12B73		PC25						
6x IV: 3p; III: 2p/1u	o0981653	ZATU711						
ZATU711xHI@g~a 12B74		PC25						
2x IV: 2p; III: 2p	o0981654	ZATU712						
ZATU711xX		PC25-bk						
1x IV: 1p; III: 1p	o0981655							
ZATU713 12B75		PC25						
7x IV: 7p	o0981656	ZATU713						
ZATU714 12B76		PC25						
40x IV: 2p/1u; III: 29p/10u	o0981657	ZATU714						
ZATU714.RU		PC25-sq						
1x IV: 1p; III: 1p	o0981658	ZATU716						
ZATU714xHI@g~a 12B77		PC25						
39x IV: 3p; III: 35p/3u	o0981659	ZATU715						
ZATU714xX		PC25-bk						
2x IV: 1p; III: 1u	o0981660							
ZATU717 12B78		PC25						
2x IV: 1p; III: 2p	o0981661	ZATU717						
ZATU718 12B79		PC25						
16x IV: 1p; III: 10p/5u	o0981662	ZATU718						
ZATU719 12B7A		PC25						
4x III: 1p/3u	o0981663	ZATU719						
ZATU720 12B7B		PC25						
20x IV: 19p/1u; III: 16p	o0981664	ZATU720						
ZATU721 12B7C		PC25						
2x IV: 2p; III: 2p	o0981665	ZATU721						

ZATU722 12B7D		PC25						
3x IV: 2p; III: 1p	o0981666	ZATU722						
ZATU723 12B7E		PC25						
3x IV: 1p; III: 2p	o0981667	ZATU723						
ZATU724		PC25-bk						
3x IV: 1p; III: 3p	o0981668	ZATU724						
ZATU725 12B7F		PC25						
18x IV: 1p; III: 16p/1u	o0981669	ZATU725						
ZATU726-a 12B80		PC25						
1x IV: 1p	o0981670	ZATU726						
ZATU726-c 12B81		PC25						
4x IV: 1p; III: 4p	o0981671	ZATU726						
ZATU726-d 12B82		PC25						
23x IV: 6p/1u; III: 18p/2u	o0981672	ZATU726						
ZATU727 12B83		PC25						
1x III: 1p	o0981673	ZATU727						
ZATU728 12B84		PC25						
9x III: 5p/4u	o0981674	ZATU728						
ZATU729 12B85		PC25						
7x IV: 6p; III: 6p	o0981675	ZATU729						
ZATU730 12B86		PC25						
1x III: 1p	o0981676	ZATU730						
ZATU732 12B87		PC25						
8x III: 8p	o0981677	ZATU732						
ZATU733		UNP						
1x III: 1u	o0981678	ZATU733						
ZATU734 12B88		PC25						
1x IV: 1p	o0981679	ZATU734						
ZATU735-a 12B89		PC25						
8x III: 5p/3u	o0981680	ZATU735						

ZATU735~b 12B8A		PC25	 1 F21FA	 2 F21FB							
20x IV: 3p; III: 17p/3u	o0981681	ZATU735									
ZATU735~c 12B8B		PC25									
1x III: 1p	o0981682	ZATU735									
ZATU736~a 12B8C		PC25									
2x IV: 1p; III: 1p	o0981683	ZATU736									
ZATU736~b 12B8D		PC25									
1x IV: 1p; III: 1p	o0981684	ZATU736									
ZATU737 12B8E		PC25	 1 F21FC	 2 F21FD							
4x IV: 1p; III: 3p/1u	o0981685	ZATU737	 1 F21FC	 2 F21FD							
ZATU737~AB~a 12B8F		PC25									
1x III: 1p	o0981686	ZATU738									
ZATU737~BU~a 12B90		PC25									
1x III: 1p	o0981687										
ZATU737~BUR~a 12B91		PC25	 1 F21FE	 2 F21FE				 (o)	 (o)	 (o)	
AKA: GABURRA 15x IV: 1p; III: 14p	o0981688	ZATU185	 1 F21FE	 2 F21FE				 (o)	 (o)	 (o)	
ZATU737~DI 12B92		PC25	 1 F2202	 2 F2202							
26x IV: 1p; III: 23p/1u	o0981689	ZATU739	 1 F2202	 2 F2202							
ZATU737~E~a		UNP									
1x III: 1u	o0981690										
ZATU737~EN~a 12B93		PC25									
1x IV: 1p	o0981691	ZATU740									
ZATU737~EN~b 12B94		PC25									
1x IV: 1p	o0981692	ZATU740									
ZATU737~GAR 12B95		PC25	 1 F21FF	 2 F2200							
AKA: ZATU741 5x IV: 2u; III: 3p	o0981693	ZATU741	 1 F21FF	 2 F2200							

ZATU737xI		UNP						
1x III: 1u	o0981694							
ZATU737xNI~a@gl	12B96	PC25						
1x III: 1p	o0981695		1 F2201					
ZATU737xNIMGIR	12B97	PC25						
2x IV: 1p; III: 1p	o0981696	ZATU742				12B97		
ZATU737xSAL	12B98	PC25						
33x IV: 1p/1u; III: 18p/13u	o0981697	ZATU743			12B98			
ZATU737xSU~a	12B99	PC25						
2x IV: 1p; III: 1p	o0981698	ZATU744		12B99				12B99
ZATU737xŠE~a	12B9A	PC25						
1x IV: 1p; III: 1p	o0981699	ZATU745		12B9A		12B9A		
ZATU737xŠITA~a1	12B9B	PC25						
1x IV: 1p	o0981700			12B9B				
ZATU737xŠITA~b1@g		EDI						
CDL: ZATU737xŠITA@g~a				F2517				
	o0981701	ZATU746						
ZATU737xU ₄	12B9C	PC25						
11x III: 9p/2u	o0981702	ZATU747		12B9C		12B9C		
ZATU737xUNUG~a	12B9D	PC25						
1x IV: 1p; III: 1p	o0981703	ZATU748		12B9D		12B9D		
ZATU737xX		PC25-bk						
14x III: 12p/2u	o0981704			F24A2		F24A2		
ZATU737@t×PAP~a		UNP						
1x	o0981705			F251A				
ZATU749~a	12B9E	PC25						
			1 F2203					
13x IV: 1p; III: 7p/5u	o0981706	ZATU749	2 F2204					
ZATU749~b	12B9F	PC25						
19x IV: 1p/1u; III: 10p/9u	o0981707	ZATU749		12B9F			12B9F	
ZATU749~c	12BA0	PC25						
13x IV: 1p; III: 11p/1u	o0981708	ZATU749		12BA0				

ZATU750 12BA1		PC25	 1 F2205 2 F2206 12BA1 3 F2207 4 F2208 5 F2209						
15x IV: 4p/2u; III: 8p/2u	o0981709	ZATU750			F2208	F2205	F2208	F2209	
ZATU751-a 12BA2		PC25	 12BA2 1 F220A						
41x IV: 1p; III: 35p/6u	o0981710	ZATU751			12BA2		12BA2	12BA2	
ZATU751-b 12BA3		PC25	 12BA3 1 F220B						
5x III: 5p	o0981711	ZATU751			F220B				
ZATU751-c 12BA4		PC25	 12BA4						
1x III: 1p	o0981712								
ZATU752 12BA5		PC25	 1 F220C 12BA5			 12BA5	 F220C	 12BA5	 12BA5
129x IV: 14p/1u; III: 90p/30u	o0981713	ZATU752							
ZATU753 12BA6		PC25	 12BA6		 12BA6	 12BA6	 12BA6	 12BA6	 12BA6
231x IV: 22p/16u; III: 168p/37u	o0981714	ZATU753							
ZATU754 12BA7		PC25	 12BA7				 12BA7		
3x IV: 3p; III: 1p	o0981715	ZATU754							
ZATU755-a 12BA8		PC25	 12BA8				 12BA8		
2x IV: 2p; III: 2p	o0981716	ZATU755							
ZATU755-b 12BA9		PC25	 12BA9						
3x IV: 1p; III: 3p	o0981717	ZATU755							
ZATU756 12BAA		PC25	 1 F220D 12BAA					 F220D	
19x IV: 1u; III: 11p/7u	o0981718	ZATU756							

ZATU757 12BAB		PC25	 F220E 12BAB 						F220F
5× IV: 1u; III: 3p/2u o0981719 ZATU757									
ZATU758 12BAC		PC25	 12BAC		12BAC	12BAC			
26× IV: 18p/1u; III: 16p/1u o0981720 ZATU758									
ZATU759 12BAD		PC25	 F2210 12BAD	 12BAD			F2210 12BAD	12BAD	12BAD
47× IV: 8p/2u; III: 31p/8u o0981721 ZATU759									
ZATU759xKU ₆ ~a 12BAE		PC25	 12BAE		 (o)	12BAE			12BAE
32× IV: 9p/1u; III: 22p/6u o0981722 ZATU760									
ZATU759x(KU ₆ ~a+KU ₆ ~a) 12BAF		PC25	 12BAF						
1× III: 1p o0981723									
ZATU759xKU ₆ ~d		UNP							
1× IV: 1u; III: 1p o0981724 ZATU760			F24A3						
ZATU759xX		PC25-bk							
2× IV: 1p; III: 2p o0981725			F24A4						
ZATU759@t×X		PC25-bk							
1× III: 1p o0981726			F24A5						
ZATU761		UNP							
1× III: 1u o0981727 ZATU761			F24A6						
ZATU762-a 12BB0		PC25	 1 F2211 2 F2212 12BB0	 1 F2211 2 F2212 12BB0					
7× IV: 2p/2u; III: 5p o0981728 ZATU762			12BB0						
ZATU762~a×NIM~a 12BB1		PC25	 12BB1						
2× IV: 1p/1u; III: 1p o0981729 ZATU763			12BB1				12BB1		
ZATU762-b 12BB2		PC25	 12BB2						
5× IV: 3p/1u; III: 3p o0981730 ZATU762			12BB2				12BB2		
ZATU762-b×AB~a 12BB3		PC25	 12BB3						
1× III: 1p o0981731 ZATU163			12BB3				12BB3		
ZATU764 12BB4		PC25	 12BB4						
21× IV: 4p/2u; III: 13p/3u o0981732 ZATU764			12BB4				12BB4		

ZATU765 12BB5		PC25						
1× IV: 1p	o0981733	ZATU765						
ZATU766 12BB6		PC25						
1× IV: 1p; III: 1p	o0981734	ZATU766						
ZATU767 12BB7		PC25						
1× IV: 1p; III: 1p	o0981735	ZATU767						
ZATU768		PC25-bk						
1× IV: 1p	o0981736	ZATU768						
ZATU769		PC25-bk						
1× III: 1p	o0981737	ZATU769						
ZATU771		PC25-bk						
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ZATU772 12BB8		PC25						
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ZATU773~b 12BBA		PC25						
8× IV: 1p; III: 2p/3u	o0981741	ZATU773						
ZATU774 12BBB		PC25						
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ZATU775 12BBC		PC25						
1× III: 1p	o0981743	ZATU775						
ZATU776 12BBD		PC25						
20× IV: 3p; III: 13p/4u	o0981744	ZATU776						
ZATU777 12BBE		PC25						
18× III: 15p/3u	o0981745	ZATU777						
ZATU778 12BBF		PC25						
4× III: 2p/2u	o0981746	ZATU778						
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	o0981747	ZATU779						

ZATU780 12BC0		PC25							
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1× III: 1p	o0981749	ZATU781							
ZATU782 12BC2		PC25							
3× III: 3p	o0981750	ZATU782							
ZATU783 12BC3		PC25							
2× III: 1p/1u	o0981751	ZATU783							
ZATU784 12BC4		PC25							
1× III: 1p	o0981752	ZATU784							
ZATU785		PC25-bk							
1× III: 1p	o0981753	ZATU785							
ZATU786 12BC5		PC25							
9× IV: 1u; III: 5p/3u	o0981754	ZATU786							
ZATU787 12BC6		PC25							
1× III: 1p	o0981755	ZATU787							
ZATU788 12BC7		PC25							
27× III: 27p	o0981756	ZATU788							
ZATU789		ZERO							
	o0981757	ZATU789							
ZATU791 12BC8		PC25							
2× IV: 1u; III: 1p	o0981758	ZATU791							
ZATU792 12BC9		PC25							
1× III: 1p	o0981759	ZATU792							
ZATU795 12BCA		PC25							
23× III: 6p/17u	o0981760	ZATU795							
ZATU797 12BCB		PC25							
2× III: 1p/1u	o0981761	ZATU797							
ZATU798 12BCC		PC25							
1× III: 1p	o0981762	ZATU798							
ZATU799 12BCD		PC25							
3× III: 1p/2u	o0981763	ZATU799							
ZATU800 12BCE		PC25							
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4× III: 4p	o0981765	ZATU801							

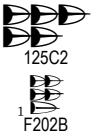
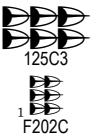
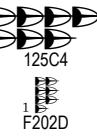
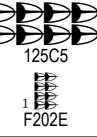
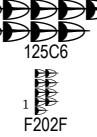
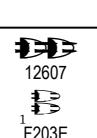
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ZATU803 12BD2		PC25						
1× IV: 1p	o0981768	ZATU803		12BD2				
ZATU804 12BD3		PC25						
1× IV: 1p; III: 1p	o0981769	ZATU804		12BD3				
ZATU805		UNP						
2× III: 2u	o0981770	ZATU805	F24AD					
ZATU806 12BD4		PC25						
1× III: 1p	o0981771	ZATU806		12BD4		12BD4		
ZATU807 12BD5		PC25						
1× IV: 1p; III: 1p	o0981772	ZATU807		12BD5				
ZATU808 12BD6		PC25						
1× III: 1p	o0981773	ZATU808		12BD6				
ZATU809 12BD7		PC25						
7× III: 6p	o0981774	ZATU809		12BD7				
ZATU810 12BD8		PC25						
1× III: 1p	o0981775	ZATU810		12BD8				
ZATU811 12BD9		PC25						
7× IV: 1p; III: 2p/4u	o0981776	ZATU811		12BD9			12BD9	
ZATU812 12BDA		PC25						
1× III: 1p	o0981777	ZATU812		12BDA			12BDA	
ZATU813 12BDB		PC25						
1× III: 1p	o0981778	ZATU813		12BDB				
ZATU814		UNP						
1× III: 1u	o0981779	ZATU814	F24AE					
ZATU815		UNP						
1× III: 1u	o0981780	ZATU815	F24AF					
ZATU817		PC25-bk						
1× IV: 1p; III: 1p	o0981781	ZATU817	F24B0				F24B0	
ZATU818		PC25-bk						
1× IV: 1p; III: 1p	o0981782	ZATU818	F24B1				F24B1	
ZATU819 12BDC		PC25						
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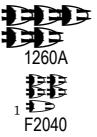
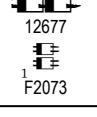
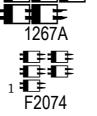
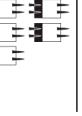
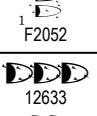
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ZATU822		UNP						
1× III: 1u	o0981786	ZATU822	F24B4					
ZATU823		UNP						
3× III: 3u	o0981787	ZATU823	F24B5					
ZATU824		UNP						
2× III: 2u	o0981788	ZATU824	F24B6					
ZATU825		UNP						
2× III: 2u	o0981789	ZATU825	F24B7					
ZATU826		UNP						
2× III: 2u	o0981790	ZATU826	F24B8					
ZATU829		UNP						
1× III: 1u	o0981791	ZATU829	F24B9					
ZATU831		UNP						
2× III: 2u	o0981792	ZATU831	F24BA					
ZATU831@g		UNP						
CDLI: ZATU831@g								
2× III: 2u	o0981793		F24BB					
ZATU832	12BDD	PC25						
3× III: 1p/2u	o0981794	ZATU832	12BDD					
ZATU833	12BDE	PC25						
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ZATU834	12BDF	PC25						
1× IV: 1p	o0981796	ZATU834	12BDF					
ZATU835	12BE0	PC25						
1× III: 1p	o0981797	ZATU835	12BE0					
ZATU836	12BE1	PC25						
2× III: 1p/1u	o0981798	ZATU836	12BE1					
ZATU837-a		UNP						
3× III: 3u	o0981799	ZATU837	F24BC					
ZATU837-b		UNP						
1× III: 1u	o0981800	ZATU837	F24BD					
ZATU838		UNP						
3× III: 3u	o0981801	ZATU838	F24BE					
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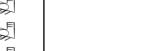
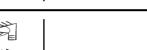
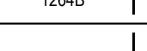
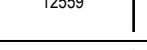
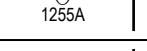
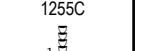
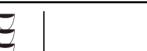
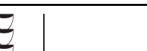
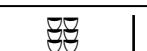
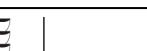
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1x III: 1u	o0981806	ZATU843	F24C2					
ZATU844		UNP						
1x IV: 1u	o0981807	ZATU844	F24C3					
ZATU845		UNP						
1x III: 1u	o0981808	ZATU845	F24C4					
ZATU846		UNP						
1x III: 1u	o0981809	ZATU846	F24C5					
ZATU847 12BE2		PC25						
6x III: 2p/4u	o0981810	ZATU847	12BE2					
ZATU848		UNP						
1x III: 1u	o0981811	ZATU848	F24C6					
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4(LAGAB~a) 12BEA	○○	PC25	○○	12BEA	○○						
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5(LAGAB~a)	NUM		○○								
			F2543								
6(LAGAB~a) 12BEB	○○ ○○	PC25	○○ ○○	12BEB	○○ ○○						
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				1 F2000							
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				1 F2001							
4(N01) 1151× IV: 240p/65u; III: 655p/269u	o0981831	ACN		12553							
5(N01) 1326× IV: 263p/66u; III: 815p/267u	o0981832	ACN		12554							
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7(N01) 379× IV: 86p/22u; III: 204p/98u	o0981834	ACN		12556							
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8(N01) 364× IV: 66p/29u; III: 217p/80u	o0981835	ACN		12557							
				1 F2005							
9(N01) 247× IV: 57p/15u; III: 127p/62u	o0981836	ACN		12558							
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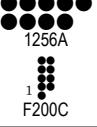
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1×	III: 1p	o0981842						
6(N01@f)	ACN							
1×	IV: 1u	o0981843						
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		o0981844						
8(N01@f)	ACN							
1×		o0981845						
9(N01@f)	ACN							
		o0981846						
1(N01@r)	ACN							
CDL: 1(N01@r)								
2× IV: 1p; III: 1p	o0981847							
1(N02)	ACN							
165× IV: 45p/10u;								
III: 99p/38u	o0981848	ZATU606						
2(N02)	ACN							
99× IV: 28p/20u;								
III: 49p/10u	o0981849							
3(N02)	ACN							
44× IV: 16p/1u;								
III: 21p/9u	o0981850							
4(N02)	ACN							
30× IV: 3p/4u;								
III: 22p/1u	o0981851							

5(N02)		ACN							
24× IV: 8p/1u; III: 7p/9u	o0981852		125C2 F202B						
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5× IV: 2p/1u; III: 2p/1u	o0981856		125C6 F202F						
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68× IV: 2p/1u; III: 63p/2u	o0981857		125EF						
2(N03)		ACN							
40× IV: 2p; III: 36p/2u	o0981858		125F0 F2036						
3(N03)		ACN							
34× IV: 1p; III: 32p/1u	o0981859		125F1 F2037						
4(N03)		ACN							
19× IV: 1p; III: 17p/2u	o0981860		125F2						
5(N03)		ACN							
8× III: 8p	o0981861		125F3 F2038						
1(N04)		ACN							
145× IV: 2p/1u; III: 120p/22u	o0981862	ZATU618	12606						
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66× IV: 2p; III: 64p/1u	o0981863		12607 F203E						
3(N04)		ACN							
58× IV: 1p/1u; III: 52p/4u	o0981864		12608 F203F						
4(N04)		ACN							
36× IV: 1p; III: 32p/2u	o0981865		12609						

5(N04)	ACN						
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	o0981870	12679					
5(N04@f)	ACN						
	o0981871	1267A	F2074				
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104× IV: 10p/1u; III: 79p/11u	o0981872	12631					
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3(N05)	ACN						
42× IV: 4p; III: 32p/8u	o0981874	12633	F2053				
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	o0981878	125D2					
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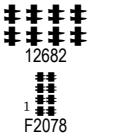
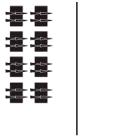
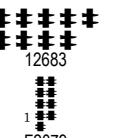
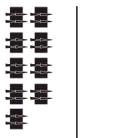
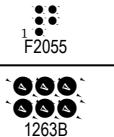
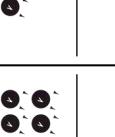
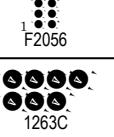
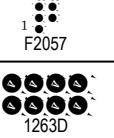
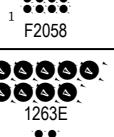
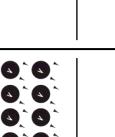
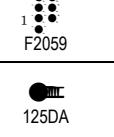
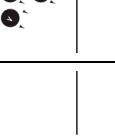
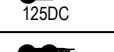
7(N06)	ACN	 125D7					
	o0981883						
8(N06)	ACN	 125D8					
	o0981884						
9(N06)	ACN	 125D9					
	o0981885						
1(N07A)	ACN	 12646					
AKA: 1(N07~a) 15x IV: 15p; III: 15p	o0981886						
2(N07A)	ACN	 12647					
AKA: 2(N07~a) 12x IV: 11p; III: 12p	o0981887						
3(N07A)	ACN	 12648					
AKA: 3(N07~a) 9x IV: 9p; III: 8p	o0981888						
1(N07B)	ACN	 12649					
AKA: 1(N07~b) 4x IV: 4p; III: 4p	o0981889						
2(N07B)	ACN	 1264A					
AKA: 2(N07~b) 3x IV: 3p; III: 3p	o0981890						
3(N07B)	ACN	 1264B					
AKA: 3(N07~b) 3x IV: 2p/1u; III: 2p	o0981891						
1(N08)	ACN	 12559					
287x IV: 51p/5u; III: 180p/74u	o0981892						
2(N08)	ACN	 1255A					
35x IV: 7p; III: 25p/6u	o0981893						
3(N08)	ACN	 1255B					
31x IV: 2p/1u; III: 19p/11u	o0981894						
4(N08)	ACN	 1255C					
20x IV: 3p; III: 15p/3u	o0981895						
5(N08)	ACN	 1255D					
23x IV: 3p/1u; III: 14p/6u	o0981896						
6(N08)	ACN	 1255E					
10x IV: 1p/1u; III: 8p/1u	o0981897						
7(N08)	ACN	 1255F					
5x III: 4p/1u	o0981898						
8(N08)	ACN	 12560					
7x III: 7p	o0981899						
9(N08)	ACN	 12561					
3x IV: 1p; III: 3p	o0981900						
1(N08~b)	NUM		 F00F5				
1x III: 1u	o0981901						

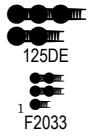
2(N08~b)		PC25						
4× III: 1p/3u	o0981902		F00F6	#	#			
3(N08~b)		NUM		#	#			
1× III: 1u	o0981903		F00F7	#	#			
4(N08~b)		NUM		#	#			
1× III: 1u	o0981904		F00F8	#	#			
4(N08~c)		NUM		#	#			
1× III: 1u	o0981905		F00F9	#	#			
1(N08~v)		NUM		#				
1× III: 1u	o0982197		F00FA					
1(N08@f)		ACN		#	#			
	o0981907		12655					
 1(N08@f)×1(N57) 		NUM		#	#			
	o0981908		F012C	#	#			
1(N09)		ACN		#	#			
18× IV: 18p; III: 18p	o0981909		12643					
1(N11)		ACN		#	#			
4× IV: 4p; III: 4p	o0981910		12644					
1(N12)		ACN		#	#			
1× IV: 1p; III: 1p	o0981911		12645					
1(N14)		ACN		#	#			
2594× IV: 478p/187u; III: 1617p/491u	o0981912	ZATU564	12562	●	●			
2(N14)		ACN		●	●			
1375× IV: 276p/91u; III: 812p/293u	o0981913		12563	●	●			
3(N14)		ACN		●●	●●			
807× IV: 147p/50u; III: 500p/151u	o0981914		12564	●●	●●			
4(N14)		ACN		●●●	●●●			
530× IV: 105p/29u; III: 321p/113u	o0981915		12565	●●●	●●●			
5(N14)		ACN		●●●●	●●●●			
386× IV: 32p/19u; III: 243p/77u	o0981916		12566	●●●●	●●●●			
6(N14)		ACN		●●●●	●●●●			
100× IV: 12p/3u; III: 65p/21u	o0981917		12567	●●●●	●●●●			
7(N14)		ACN		●●●●●	●●●●●			
79× IV: 5p; III: 56p/17u	o0981918		12568	●●●●●	●●●●●			
8(N14)		ACN		●●●●●	●●●●●			
72× IV: 5p; III: 63p/4u	o0981919		12569	●●●●●	●●●●●			
			1F200B	●●●●●	●●●●●			

9(N14)		ACN								
43× IV: 1p; III: 38p/4u	o0981920									
10(N14)		PC25								
2×	o0981921		F00DB							
11(N14)		PC25								
1×	o0981922		F00DC							
12(N14)		OOR5								
1×	o0981923		F00DD							
22(N14)		PC25								
1×	o0981924		F00DE							
1(N14@f)		ACN								
1×	IV: 1u	o0981925	12656							
2(N14@f)		ACN								
o0981926			12657							
3(N14@f)		ACN								
2×	IV: 1u	o0981927	12658							
4(N14@f)		ACN								
o0981928			12659							
5(N14@f)		ACN								
o0981929			1265A 1 F2063							
6(N14@f)		ACN								
o0981930			1265B 1 F2064							
7(N14@f)		ACN								
o0981931			1265C 1 F2065							
8(N14@f)		ACN								
o0981932			1265D 1 F2066							
9(N14@f)		ACN								
o0981933			1265E 1 F2067							
10(N14@f)		OOR								
o0981934			F00DF							
1(N15)		ACN								
13× IV: 1p; III: 10p/2u	o0981935		125C7							

2(N15)	ACN							
8× IV: 1p; III: 5p/2u	o0981936		125C8					
3(N15)	ACN							
4× IV: 1p; III: 2p/1u	o0981937		125C9					
4(N15)	ACN							
1× III: 1u	o0981938		125CA					
5(N15)	ACN							
3× III: 3p	o0981939		125CB					
			F2030					
1(N16)	ACN							
9× IV: 1p; III: 8p/1u	o0981940		F00FB					
1(N17)	ACN							
1× III: 1p	o0981941		F00FC					
1(N18)	ACN							
19× IV: 3p/1u; III: 16p	o0981942		125F4					
2(N18)	ACN							
14× III: 13p/1u	o0981943		125F5					
3(N18)	ACN							
6× III: 6p	o0981944		125F6					
4(N18)	ACN							
2× III: 2p	o0981945		125F7					
5(N18)	ACN							
3× III: 3p	o0981946		125F8					
			F2039					
6(N18)	ACN							
2× IV: 1p; III: 1p	o0981947		125F9					
			F203A					
7(N18)	ACN							
1× III: 1p	o0981948		125FA					
			F203B					
8(N18)	ACN							
2× III: 2p	o0981949		125FB					
			F203C					
9(N18)	ACN							
2× III: 2p	o0981950		125FC					
			F203D					
1(N19)	ACN							
87× IV: 2p/1u; III: 78p/6u	o0981951		1260B					

2(N19)		ACN							
81x IV: 4p/1u; III: 70p/6u	o0981952		1260C						
3(N19)		ACN							
52x IV: 2p; III: 47p/3u	o0981953		1260D						
4(N19)		ACN							
33x III: 29p/4u	o0981954		1260E						
5(N19)		ACN							
40x III: 34p/4u	o0981955		1260F 1 F2041						
6(N19)		ACN							
20x III: 18p/2u	o0981956		12610 1 F2042						
7(N19)		ACN							
22x IV: 2p; III: 19p/2u	o0981957		12611 1 F2043						
8(N19)		ACN							
16x III: 14p/2u	o0981958		12612 1 F2044						
9(N19)		ACN							
10x III: 9p/1u	o0981959		12613 1 F2045 2 F2046						
1(N19@f)		ACN							
	o0981960		1267B						
2(N19@f)		ACN							
	o0981961		1267C						
3(N19@f)		ACN							
	o0981962		1267D						
4(N19@f)		ACN							
	o0981963		1267E						
5(N19@f)		ACN							
	o0981964		1267F 1 F2075						
6(N19@f)		ACN							
	o0981965		12680 1 F2076						
7(N19@f)		ACN							
	o0981966		12681 1 F2077						

8(N19@f)	ACN						
	o0981967						
9(N19@f)	ACN						
	o0981968						
1(N20)	ACN						
62x IV: 11p; III: 52p/5u	o0981969						
2(N20)	ACN						
50x IV: 7p/1u; III: 34p/13u	o0981970						
3(N20)	ACN						
24x IV: 4p; III: 18p/3u	o0981971						
4(N20)	ACN						
17x IV: 2p; III: 11p/4u	o0981972						
5(N20)	ACN						
12x IV: 1p; III: 5p/6u	o0981973						
6(N20)	ACN						
9x III: 8p/1u	o0981974						
7(N20)	ACN						
4x IV: 1p; III: 4p	o0981975						
8(N20)	ACN						
6x III: 4p/2u	o0981976						
9(N20)	ACN						
5x IV: 1p; III: 4p	o0981977						
1(N21)	ACN						
	o0981978						
2(N21)	ACN						
5x III: 5p	o0981979						
3(N21)	ACN						
9x III: 8p/1u	o0981980						
4(N21)	ACN						
4x III: 4p	o0981981						

5(N21)		ACN							
2× III: 2p	o0981982								
6(N21)		PC25							
1× IV: 1p	o0981983								
1(N22)		ACN							
89× IV: 4p; III: 45p/41u	o0981984								
2(N22)		ACN							
56× IV: 2p; III: 31p/23u	o0981985								
1(N22~v)		PC25							
1× III: 1p	o0981986								
1(N22@f)		ACN							
	o0981987								
2(N22@f)		ACN							
	o0981988								
1(N23)		Pelm							
2× III: 1p/1u	o0981989								
2(N23)		Pelm							
1× III: 1p	o0981990								
3(N23)		Pelm							
1× III: 1p	o0981991								
5(N23)		Pelm							
1× IV: 1p	o0981992								
7(N23)		Pelm							
1× III: 1p	o0981993								
1(N24)		ACN							
AKA: 1(N24') 1(N24'')									
357× IV: 28p/11u; III: 297p/33u	o0981994								
2(N24)		NUM							
	o0981995								
4(N24)		NUM							
	o0981996								
6(N24)		NUM							
1× IV: 1u; III: 1p	o0981997								
1(N24@f)		PC25							
2× III: 2p	o0981998								
1(N24A)		ACN							
AKA: 1(N24~a)									
28× III: 28p	o0981999								
1(N24B)		ACN							
AKA: 1(N24~b)									
18× III: 15p/3u	o0982000								

1(N25)	ACN	 12623						
150× IV: 5p; III: 132p/16u	o0982001							
1(N26)	ACN	 125AB						
45× IV: 9p/1u; III: 32p/7u	o0982002	 F2026						
1(N26B)	ACN	 125FF						
AKA: 1(N26~b) 1× III: 1p	o0982003							
1(N27)	ACN	 12624						
13× IV: 1p; III: 12p	o0982004	 F2051						
1(N28)	ACN	 125AC						
91× IV: 17p/1u; III: 79p/6u	o0982005							
1(N28B)	ACN	 12600						
AKA: 1(N28~b) 2× III: 2p	o0982006							
1(N28C)	ACN	 12625						
AKA: 1(N28~c) 38× IV: 1p; III: 32p/6u	o0982007							
1(N29A)	ACN	 125AD						
AKA: 1(N29) 1(N29~a) 57× IV: 4p; III: 53p/2u	o0982008	 F2027						
2(N29A)	PC25	 F0107						
AKA: 2(N29~a) 4× III: 4p	o0982009							
1(N29AB)	ACN	 12601						
AKA: 1(N29A~b) 1(N29A~b) 1× III: 1p	o0982010							
2(N29AB)	PC25	 F010A						
AKA: 2(N29A~b) 2× III: 2p	o0982011							
1(N29AC)	ACN	 12626						
AKA: 1(N29A~c) 3× III: 2p/1u	o0982012							
1(N29B)	ACN	 125AE						
AKA: 1(N29~b) 6× IV: 2p; III: 5p	o0982013							
1(N30A)	ACN	 125AF						
AKA: 1(N30~a) 52× IV: 3p; III: 49p	o0982014	 F2028						
1(N30AC)	ACN	 12627						
AKA: 1(N30A~c) 4× III: 4p	o0982015							
1(N30B)	PC25	 F010B						
AKA: 1(N30~b) 2× III: 2p	o0982016							
1(N30C)	ACN	 125B0						
AKA: 1(N30~c) 47× IV: 1p; III: 44p/3u	o0982017							

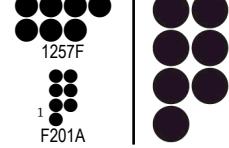
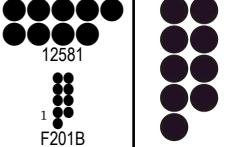
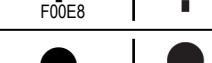
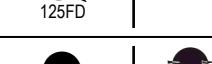
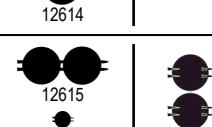
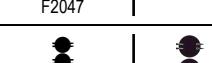
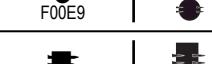
1(N30CA) AKA: 1(N30C~a) 1(N30C~a) 1x III: 1p	PC25 o0982018	 F2537					
1(N30CB) o0982019	NUM	 F010C					
1(N30CC) AKA: 1(N30C~c) 1x III: 1u	ACN o0982020	 12628					
1(N30D) AKA: 1(N30~d) 2x IV: 2p; III: 2p	ACN o0982021	 125B1					
1(N30E) AKA: 1(N30~e) 1x III: 1p	ACN o0982022	 125B2					
1(N31) 3x IV: 1p; III: 3p	ACN o0982023	 125B3					
1(N32) 3x IV: 2p/1u; III: 2p	ACN o0982024	 125B4					
1(N33) 1x IV: 1p; III: 1p	ACN o0982025	 125B5					
1(N34) 1020x IV: 243p/94u; III: 597p/179u	ACN o0982026	 1256B					
 1(N34)×1(N58) 1x III: 1p	PC25 o0982027	 F012D					
2(N34) 344x IV: 77p/17u; III: 212p/65u	ACN o0982028	 1256C  F200D	 1256C	 F200D			
3(N34) 175x IV: 39p/15u; III: 95p/38u	ACN o0982029	 1256D  F200E	 1256D	 F200E			
4(N34) 109x IV: 26p/10u; III: 67p/19u	ACN o0982030	 1256E	 1256E				
5(N34) 112x IV: 22p/9u; III: 61p/19u	ACN o0982031	 1256F  F200F	 1256F	 F200F			
6(N34) 54x IV: 11p/5u; III: 32p/13u	ACN o0982032	 12570  F2010	 12570	 F2010			
7(N34) 28x IV: 5p/4u; III: 16p/7u	ACN o0982033	 12571  F2011	 12571	 F2011			

8(N34)	ACN							
24x IV: 7p/4u; III: 9p/10u	o0982034							
9(N34)	ACN							
14x IV: 4p/1u; III: 12p/1u	o0982035							
1(N34@f)	ACN							
1x IV: 1p; III: 1p	o0982036							
2(N34@f)	ACN							
	o0982037							
3(N34@f)	ACN							
	o0982038							
4(N34@f)	ACN							
	o0982039							
5(N34@f)	ACN							
	o0982040							
6(N34@f)	ACN							
	o0982041							
7(N34@f)	ACN							
1x IV: 1p; III: 1p	o0982042							
8(N34@f)	ACN							
	o0982043							
9(N34@f)	ACN							
	o0982044							
1(N34@f@t)	ACN							
CDL: 1(N34@f@t)	o0982045							
1(N35)	ACN							
5x IV: 2p; III: 3p/1u	o0982046							
2(N35)	ACN							
1x III: 1p	o0982047							

3(N35)	ACN						
	o0982048	125CE					
4(N35)	ACN						
	o0982049	125CF					
5(N35)	ACN						
		125D0					
							
1x III: 1p	o0982050	F2032					
1(N36)	ACN						
43x IV: 4p; III: 33p/9u	o0982051	12616					
2(N36)	ACN						
		12617					
							
10x IV: 4p; III: 8p/1u	o0982052	F2048					
3(N36)	ACN						
		12618					
							
7x IV: 1p; III: 5p/2u	o0982053	12618					
4(N36)	ACN						
3x IV: 1p; III: 2p	o0982054	12619					
5(N36)	ACN						
		1261A					
							
1x IV: 1p; III: 1p	o0982055	F204A					
6(N36)	ACN						
		1261B					
							
2x III: 2u	o0982056	F204B					
7(N36)	ACN						
		1261C					
							
	o0982057	F204C					
8(N36)	ACN						
		1261D					
							
	o0982058	F204D					
9(N36)	ACN						
		1261E					
							
2x III: 2p	o0982059	F204E					
1(N36@f)	ACN						
	o0982060	12686					
1(N37)	ACN						
		12641					
6x IV: 1u; III: 4p/1u	o0982061						

2(N37)	ACN							
1x III: 1p o0982062								
1(N38)	ACN							
30x IV: 4p/1u; III: 27p/1u o0982063								
1(N39A)	ACN							
AKA: 1(N39~a) 211x IV: 7p/4u; III: 181p/18u o0982064								
2(N39A)	ACN							
AKA: 2(N39~a) 189x IV: 2p; III: 170p/17u o0982065								
3(N39A)	ACN							
AKA: 3(N39~a) 89x IV: 2p/1u; III: 77p/10u o0982066								
4(N39A)	ACN							
AKA: 4(N39~a) 55x III: 53p/2u o0982067								
1(N39B)	ACN							
AKA: 1(N39~b) 14x IV: 9p/4u; III: 8p o0982068								
2(N39B)	ACN							
AKA: 2(N39~b) 11x IV: 5p/3u; III: 3p o0982069								
3(N39B)	ACN							
AKA: 3(N39~b) 5x IV: 3p/1u; III: 2p o0982070								
4(N39B)	ACN							
AKA: 4(N39~b) 8x IV: 4p/1u; III: 1p o0982071								
1(N40)	ACN							
40x III: 39p/1u o0982072								
2(N40)	ACN							
36x IV: 1p; III: 35p o0982073								
3(N40)	ACN							
27x III: 26p o0982074								
4(N40)	ACN							
16x III: 16p o0982075								
1(N41)	ACN							
24x IV: 1p; III: 24p o0982076								
2(N41)	ACN							
27x III: 27p o0982077								
3(N41)	ACN							
20x III: 20p o0982078								
4(N41)	ACN							
17x III: 16p/1u o0982079								

1(N42A)		ACN							
AKA: 1(N42~a) 130× IV: 2p/1u; III: 117p/12u	o0982080		12629						
2(N42A)		ACN							
AKA: 2(N42~a) 89× IV: 1p; III: 78p/6u	o0982081		1262A						
3(N42A)		ACN							
AKA: 3(N42~a) 52× IV: 1p; III: 40p/12u	o0982082		1262B						
4(N42A)		ACN							
AKA: 4(N42~a) 25× IV: 5p; III: 21p/2u	o0982083		1262C						
1(N42B)		ACN							
	o0982084		1262D						
2(N42B)		ACN							
AKA: 2(N42~b) 3× IV: 3p; III: 1p	o0982085		1262E						
3(N42B)		ACN							
	o0982086		1262F						
4(N42B)		ACN							
	o0982087		12630						
1(N43)		PC25							
3× III: 2p/1u	o0982088		F010D						
4(N43)		PC25							
1× III: 1p	o0982089		F010E						
1(N44)		PC25							
1× IV: 1p	o0982090		F00E1						
1(N45)		ACN							
323× IV: 25p/5u; III: 226p/60u	o0982091		12579						
2(N45)		ACN							
137× IV: 8p/3u; III: 92p/32u	o0982092		1257A						
									
3(N45)		ACN							
13× IV: 2p; III: 7p/4u	o0982093		1257B						
4(N45)		ACN							
4× III: 4u	o0982094		1257C						
5(N45)		ACN							
6× III: 3p/3u	o0982095		1257D						
									
6(N45)		ACN							
4× III: 3p/1u	o0982096		1257E						
									

7(N45)		ACN						
2× III: 2u	o0982097							
8(N45)		ACN						
	o0982098							
9(N45)		ACN						
1× III: 1p	o0982099							
1(N45@f)		ACN						
	o0982100							
2(N45@f)		ACN						
	o0982101							
3(N45@f)		OOR						
	o0982102							
4(N45@f)		OOR						
	o0982103							
5(N45@f)		OOR						
	o0982104							
6(N45@f)		OOR						
	o0982105							
7(N45@f)		OOR						
	o0982106							
8(N45@f)		OOR						
	o0982107							
9(N45@f)		OOR						
	o0982108							
1(N45A) AKA: 1(N45~a)		ACN						
1× III: 1p	o0982109							
1(N46) 99× IV: 5p; III: 76p/22u		ACN						
	o0982110							
2(N46)		ACN						
40× IV: 2p; III: 34p/6u	o0982111							
3(N46)		PC25						
1× III: 1p	o0982112							
1(N46@f)		ACN						
	o0982113							

2(N46@f)	ACN	 12685						
o0982114								
1(N47)	ACN	 1263F						
15x IV: 4p/1u; III: 11p	o0982115							
2(N47)	ACN	 12640  						
11x IV: 2p; III: 8p/1u	o0982116		 F205A					
3(N47)	OOR							
1x IV: 1u	o0982117		 F00EA					
1(N48)	ACN	 12574						
105x IV: 33p/9u; III: 54p/20u	o0982118							
2(N48)	ACN	 12575  						
45x IV: 11p/10u; III: 23p/4u	o0982119							
3(N48)	ACN	 12576  						
17x IV: 3p/1u; III: 10p/5u	o0982120							
4(N48)	ACN	 12577						
13x IV: 2u; III: 7p/4u	o0982121							
5(N48)	ACN	 12578  						
4x IV: 3u; III: 1u	o0982122							
6(N48)	OOR							
2x IV: 2u	o0982123		 F00EB					
7(N48)	OOR							
1x IV: 1u	o0982124		 F00EC					
1(N48@f)	NUM	 F010F						
o0982125								
1(N49)	ACN	 1261F						
8x IV: 1p; III: 6p/1u	o0982126							
2(N49)	ACN	 12620  						
3x IV: 1p; III: 2p/1u	o0982127							
3(N49)	ACN	 12621  						
4x IV: 1p; III: 4p	o0982128							
4(N49)	ACN	 12622						
2x III: 1p/1u	o0982129							

5(N49)	OOR						
	o0982130						
1(N50)	ACN						
82× IV: 1u; III: 42p/36u	o0982131	12582	12582				
2(N50)	ACN						
35× IV: 3p/1u; III: 19p/13u	o0982132	12583	12583				
			1 F201C				
3(N50)	ACN						
22× IV: 1p; III: 16p/6u	o0982133	12584	12584				
4(N50)	ACN						
23× IV: 1p; III: 15p/8u	o0982134	12585	12585				
5(N50)	ACN						
9× III: 5p/3u	o0982135	12586	12586				
			1 F201D				
1(N51)	ACN						
107× IV: 34p/14u; III: 51p/15u	o0982136	1259A	1259A				
2(N51)	ACN						
46× IV: 10p/7u; III: 23p/8u	o0982137	1259B	1259B				
			1 F201E				
3(N51)	ACN						
17× IV: 5p/2u; III: 10p/2u	o0982138	1259C	1259C				
4(N51)	ACN						
11× IV: 2p; III: 6p/4u	o0982139	1259D	1259D				
5(N51)	ACN						
18× IV: 2p/2u; III: 9p/6u	o0982140	1259E	1259E				
			1 F201F				
6(N51)	ACN						
6× IV: 1u; III: 2p/3u	o0982141	1259F	1259F				
			1 F2020				
7(N51)	ACN						
2× IV: 1p; III: 1p	o0982142	125A0	125A0				
			1 F2021				
8(N51)	ACN						
2× IV: 1p; III: 2p	o0982143	125A1	125A1				
			1 F2022				

9(N51)	ACN							
	o0982144		125A2					
1(N51@f)	ACN							
	o0982145		1266C					
2(N51@f)	ACN							
	o0982146		1266D					
			1					
3(N51@f)	ACN							
	o0982147		1266E					
4(N51@f)	ACN							
	o0982148		1266F					
5(N51@f)	ACN							
	o0982149		12670					
			1					
6(N51@f)	ACN							
	o0982150		12671					
			1					
7(N51@f)	ACN							
	o0982151		12672					
			1					
8(N51@f)	ACN							
	o0982152		12673					
			1					
9(N51@f)	ACN							
	o0982153		12674					
			1					
1(N52) 27x IV: 1p/2u; III: 20p/4u	ACN							
	o0982154		125E0					
2(N52)	ACN							
10x III: 10p	o0982155		125E1					
			1					
3(N52)	ACN							
	o0982156		125E2					
4(N52)	ACN							
	o0982157		125E3					

5(N52)		ACN							
1× IV: 1p; III: 1p	o0982158								
6(N52)		ACN							
	o0982159								
7(N52)		ACN							
	o0982160								
8(N52)		ACN							
	o0982161								
9(N52)		ACN							
	o0982162								
3(N53)		PC25							
1× IV: 1p	o0982163								
1(N54)		ACN							
18× IV: 7p/1u; III: 4p/7u	o0982164								
2(N54)		ACN							
4× IV: 3p; III: 3p	o0982165								
3(N54)		ACN							
3× IV: 1p; III: 2p	o0982166								
4(N54)		ACN							
	o0982167								
5(N54)		ACN							
3× III: 3p	o0982168								
1(N55)		PC25							
1× IV: 1p	o0982169								
1(N56)		ACN							
	o0982170								
2(N56)		ACN							
1× III: 1p	o0982171								
1(N57) 12BEC AKA: AŠ 507×		PC25	—	—					
IV: 71p/19u; III: 296p/139u	o0982172	ZATU037		12BEC					
2(N57) 12BED 161×	=	PC25	==	12BED	==				
IV: 15p/2u; III: 116p/35u	o0982173	ZATU546	1	F2224	1				

3(N57) 12BEE 551× IV: 23p/9u; III: 380p/139u	≡	PC25 o0982174 ZATU146	≡ 12BEE	≡				
4(N57) 12BEF 46× IV: 4p/1u; III: 36p/7u	≡	PC25 o0982175	≡ 12BEF	≡				
5(N57) 12BF0 62× IV: 6p; III: 51p/8u	≡	PC25 o0982176	≡ 12BF0	≡≡				
6(N57) 12BF1 21× IV: 2p; III: 16p/3u	≡≡	PC25 o0982177	≡≡ 12BF1 F2225	≡≡				
7(N57) 12BF2 9× IV: 1p; III: 7p	≡≡	PC25 o0982178	≡≡ 12BF2 F2226	≡≡				
8(N57) 12BF3 5× III: 3p/1u	≡≡	PC25 o0982179	≡≡ 12BF3	≡≡				
9(N57) 12BF4 2× III: 2p	≡≡	PC25 o0982180	≡≡ 12BF4	≡≡				
10(N57) 12BF5 1× III: 1p	≡≡	PC25 o0982181	≡≡ 12BF5	≡≡				
1(N58) 12BF6 189× AKA: DIŠ IV: 36p/16u; III: 118p/36u		PC25 o0982182 ZATU081	 12BF6					
2(N58) 12BF7 11× IV: 4p/1u; III: 6p/2u		PC25 o0982183	 12BF7					
3(N58) 12BF8 9× IV: 4p; III: 4p/3u		PC25 o0982184	 12BF8					
4(N58) 12BF9 4× IV: 2u; III: 1p/1u		PC25 o0982185	 12BF9					
5(N58) 12BFA 2× IV: 2u		PC25 o0982186	 12BFA					
8(N58) 12BFB 1× III: 1u		PC25 o0982187	 12BFB					
9(N58) 12BFC 1× III: 1p		PC25 o0982188	 12BFC					
10(N58) 12BFD 2× III: 2p		PC25 o0982189	 12BFD					

12(N58) 12BFE		PC25						
1× III: 1p	o0982190							
1(N58@t) 12BFF		PC25						
AKA: 1(N58)@t CDL: 1(N58@t) 2× IV: 1p; III: 1p	o0982191							
1(N59)		PC25						
1× III: 1p	o0982192		F0124					
2(N59)		PC25						
1× III: 1p	o0982193		F0125					
3(N59)		PC25						
18× III: 11p/7u	o0982194		F0126					
4(N59)		PC25						
3× III: 2p/1u	o0982195		F0127					
6(N59)		PC25						
3× III: 3p	o0982196		F0128					
7(N59)		PC25						
1× III: 1p	o0981906		F2536					
1(N60)		ACN						
4× III: 4p	o0982198		125E9					
3(N61)		PC25						
1× III: 1p	o0982199		F0129					
4(N62)		PC25						
1× III: 1p	o0982200		F012A					
1(N63)		NUM						
2× III: 2u	o0982201		F012B					
1(N57).AB ₂		UNP						
1× III: 1u	o0982202		F2290					
2(N57).AB ₂		PC25-sq						
1× IV: 1p; III: 1p	o0982203	ZATU014	F2291		F2291			
3(N57).AMAR		PC25-sq						
2× III: 1p/1u	o0982204		F2292					
4(N57).AMAR		PC25-sq						
1× III: 1p	o0982205		F2293			F2293		
3(N57).AZ		PC25-sq						
3× III: 3p	o0982206		12BEE					
3(N57).BARxUŠ-a		ZERO						
	o0982207		F2294				F2294	
3(N57).BARA ₃		UNP						
1× III: 1u	o0982208		F2295					
2(N57).BIR ₃ -a		PC25-sq						
1× III: 1p	o0982209		F2296				F2296	

1(N57).BU ₃ 1× III: 1p o0982210	PC25-sq F2297					
1(N57).E _{2~a} o0982211	ZERO F2297					
3(N57).E _{2~b} 1× III: 1u o0982212	UNP F2221 1 F2222					
3(N57).EN ₂ 6× III: 6p o0982213	PC25-sq 12ĒĒĒ					
X(N57).GAR AKA: N(N57).GAR CDLI: x(N57).GAR 1× III: 1p o0982214	PC25-sq F24CB					
3(N57).GAR 2× III: 2p o0982215	PC25-sq F2298					
4(N57).GAR 5× III: 5p o0982216	PC25-sq F2299					
5(N57).GAR 8× III: 8p o0982217	PC25-sq F229A					
6(N57).GAR 4× III: 3p/1u o0982218	PC25-sq F229B					
7(N57).GAR 1× o0982219	PC25-sq 12BF ₂					
4(N57).KU _{3~a} 11× III: 11p o0982220	PC25-sq F229D					
5(N57).KU _{3~a} 4× III: 4p o0982221	PC25-sq F229E					
6(N57).KU _{3~a} 2× III: 2p o0982222	PC25-sq F229F					
2(N57).KU _{6~a} 1× III: 1p o0982223	PC25-sq F22A0					
1(N57).MUŠEN AKA: MUŠEN×1(N57) CDLI: MUŠEN×1(N57) 5× III: 5p o0982224	PC25-sq F22A2 12ĒĒĒ					
2(N57).MUŠEN AKA: MUŠEN×2(N57) CDLI: MUŠEN×2(N57) 27× IV: 1p; III: 26p/1u o0982225	PC25-sq F22A3 12ĒĒĒ					
3(N57).MUŠEN AKA: MUŠEN×3(N57) CDLI: MUŠEN×3(N57) 1× III: 1p o0982226	PC25-sq F22A4					

3(N57).NUNUZ~a1	PC25-sq							
23× III: 20p/3u	o0982227	ZATU424						
3(N57).NUNUZ~c	PC25-sq							
2× III: 1p/1u	o0982228	ZATU424						
3(N57).PIRIG~b1	PC25-sq							
35× IV: 3p/1u; III: 25p/8u	o0982229	ZATU429						
3(N57).SANGA~a	PC25-sq							
1× III: 1p	o0982230							
3(N57).SI	PC25-sq							
2× III: 2p	o0982231							
1(N57).SIG	PC25-sq							
AKA: SIG×1(N57) CDLI: SIG×1(N57)								
1× IV: 1p	o0982232							
2(N57).SU~a	UNP							
1× IV: 1u	o0982233							
1(N57).ŠAH₂~a	PC25-sq							
4× III: 4p	o0982234							
1(N57).ŠUBUR	PC25-sq							
40× IV: 8p/1u; III: 27p/10u	o0982235	ZATU540	¹ 					
2(N57).ŠUBUR	PC25-sq							
2× III: 2p	o0982236							
3(N57).ŠUBUR	PC25-sq							
3× III: 3p	o0982237	ZATU540						
3(N57).UDU~a	ZERO							
	o0982238	ZATU577						
2(N57).UDUNITA~a	ZERO							
	o0982239							
3(N57).UDUNITA~a	ZERO							
	o0982240							

B ZATU-PCSL Concordance

ZATU001	A	ZATU010	AB~a×ZATU659	ZATU015	ABGAL
ZATU002	A×EN~a	ZATU011	AB~a@g	ZATU016	ABRIG
ZATU003	A×ŠUBUR	ZATU012	AB₂	ZATU017	ABZU
ZATU004	A×1(N14)	ZATU013	AB~x×2(N14)	ZATU018	AD~a; AD~b; AD~c
ZATU005	A×ZATU672	ZATU014	2(N57).AB₂	ZATU019	ADAB
ZATU006	A₂	ZATU014a	ZATU gives 2(N57)+AB₂ and 3(N57)+AB₂ ; Corpus has 3(N57).AB₂ / 4(N57).AB₂ in ATU 1, 610 = P005961 ii 5-6 read 3(N57) AB₂ 4(N57) AB₂ in CDLI.	ZATU020	ADDA
ZATU007	AB~a; AB~b			ZATU021	NINDA₂×(1(N06).HI@g~a)
ZATU008	AB~b×A			ZATU022	AGAR₂
ZATU009	AB~a×AŠ₂			ZATU023	AK~a; AK~b

ZATU024	AL	ZATU056	BU~a; BU~b	ZATU086	DUB~a; DUB~b;
ZATU025	ALAN~a; ALAN~b; ALAN~c; ALAN~d; ALAN~e	ZATU057	BU~a×A	ZATU087	DUB~c; DUB~d; DUB~e; DUB~f; DUB~h
ZATU026	ALIM	ZATU058	(BU~a&BU~a).NA~a ; (BU~a&BU~a).NA~b	ZATU088	(DUB@n~a×1(N58))-a ; (DUB@n~a×1(N58))-b ; DUB@n~b×1(N58)-a
ZATU027	AM~a; AM~b	ZATU059	BU~a+DU~a	ZATU089	DUG~a; DUG~b; DUG~c; DUG~d
ZATU028	AMA~a; AMA~b	ZATU060	BU ₃	ZATU090	DUG~b×AB ₂
ZATU029	AMAR	ZATU061	BULUG	ZATU091	DUG~b×ANŠE~b ; DUG~b×ANŠE~d
ZATU030	AMAR×TAR~c	ZATU062	BULUG ₃	ZATU092	DUG~a×1(N57) ; DUG~b×1(N57) ; DUG~c×1(N57)
ZATU031	AN	ZATU063	BUR~a; BUR~b; BUR~c; BUR~d	ZATU093	DUG~b×(1(N57).KU ₃ ~a)
ZATU032	ANŠE~a; ANŠE~b; ANŠE~c; ANŠE~e; ANŠE~f	ZATU064	BUR ₂	ZATU094	DUG~b×BALA~a
ZATU033	APIN~a; APIN~b; APIN~c	ZATU065	DA~a; DA~b; DA~c; DA~d	ZATU095	DUG~b×BIR ₃ ~c
ZATU034	ARARMA ₂ ~a; ARARMA ₂ ~b	ZATU066	DAH	ZATU096	DUG~b×DIN
ZATU035	ARATTA	ZATU067	DAM	ZATU097	DUG~b×GA~a ; DUG~b×GA~b
ZATU036	ASAR	ZATU068	DANNA	ZATU098	DUG~b×GEŠTU~a ; DUG~b×GEŠTU~b
ZATU037	— 1(N57)	ZATU069	DAR~a; DAR~b; DAR~c; DAR~d	ZATU099	DUG~b×Gl ₆
ZATU038	AZ	ZATU070	DARA ₃ ~a; DARA ₃ ~b; DARA ₃ ~c; DARA ₃ ~d	ZATU100	DUG~b×GIŠ
ZATU039	AZU	ZATU071	DARA ₃ ~c×KAR ₂ ; DARA ₃ ~d×KAR ₂ ~b	ZATU101	DUG~b×HI
ZATU040	BA	ZATU072	DARA ₃ ~c×(KAR ₂ .ŠE~a) ; DARA ₃ ~d×(KAR ₂ .ŠE~a)	ZATU102	DUG~b×HI@g~a
ZATU041	BAD	ZATU073	DARA ₄ ~a1; DARA ₄ ~a2; DARA ₄ ~a3; DARA ₄ ~b; DARA ₄ ~c; DARA ₄ ~c1; DARA ₄ ~c2; DARA ₄ ~c3; DARA ₄ ~c4; DARA ₄ ~c5; DARA ₄ ~d	ZATU103	DUG~a×KASKAL
ZATU042	BAD&BAD	ZATU074	ZATU074 DARA ₄ +BAD+BAD reread in ATU 3 p.154 W20421,2 = Lú Vorläufer (Tf.23) 00305 as Rl _a ?	ZATU104	DUG~a×KU ₆ ~a ; DUG~b×KU ₆ ~a
ZATU043	1(N58).BAD ; (N58).BAD~b	ZATU075	DI	ZATU105	DUG~b×KUR~a ; DUG~b×KUR~b
ZATU044	BAD ₃ ~a; BAD ₃ ~b1; BAD ₃ ~b2	ZATU076	DIB	ZATU106	DUG~a×LAM~b ; DUG~b×LAM~a
ZATU045	BAHAR ₂ ~a; BAHAR ₂ ~b; BAHAR ₂ ~c	ZATU077	DILMUN	ZATU107	DUG~b×KUR@g~a
ZATU046	BALA~a; BALA~b	ZATU078	DIM~a; DIM~b; DIM~c	ZATU108	DUG~b×MAŠ
ZATU047	BALAG	ZATU079	DIN	ZATU109	DUG~a×NAGA~a ; DUG~b×NAGA~a
ZATU048	BAN~a; BAN~b	ZATU080	DIN@t	ZATU110	DUG~b×SA~a
ZATU049	BANŠUR~a; BANŠUR~b1; BANŠUR~b2; BANŠUR~c	ZATU081	1(N58)	ZATU111	DUG~b×(SA~a.GI)
ZATU050	BAPPIR~a; BAPPIR~b; BAPPIR~c; BAPPIR~d; BAPPIR~e; BAPPIR~f	ZATU082	DU	ZATU112	DUG~b×Sl ₄ ~a
ZATU051	BAR	ZATU083	DU ₆ ~a; DU ₆ ~b; DU ₆ ~c	ZATU113	DUG~b×SIG ₂ ~a1 ; DUG~b×SIG ₂ ~a2
ZATU052	BARA ₂ ~a; BARA ₂ ~b	ZATU084	DU ₇	ZATU114	DUG~b×SIG ₇
ZATU053	BARA ₃	ZATU085	DU ₈ ~a; DU ₈ ~b; DU ₈ ~c	ZATU115	DUG~b×SUHURI
ZATU054	BIR~a; BIR~b; BIR~c			ZATU116	DUG~b×SUKUD~d
ZATU055	{ BIR ₃ ~a; BIR ₃ ~b; BIR ₃ ~c			ZATU117	DUG~b×ŠAH ₂ ~a
				ZATU118	DUG~b×ŠE~a
				ZATU119	DUG~b×(ŠE~a.NAM ₂)
				ZATU120	DUG~b×TAK ₄ ~a
				ZATU121	DUG~b×TI

ZATU122	▷ DUG~a×U ₂ ~a ; ▷ DUG~a×U ₂ ~b ; ▷ DUG~b×U ₂ ~a ; ▷ DUG~b×U ₂ ~b	ZATU156	▷ EZEN~a×SU~a	ZATU193	▷ GAN~c×NE~a
ZATU123	▷ DUG~b×UH ₃ ~a	ZATU157	▷ EZEN~a×(U ₂ ~b.A)	ZATU194	▷ GAN~c×ŠE~a
ZATU124	▷ DUG~b×ZATU764	ZATU158	▷ EZINU~a; ▷ EZINU~b; EZINU~c; ▷ EZINU~d	ZATU195	▀ GAN ₂
ZATU125	≡- DUGUD	ZATU159	▷ GA~a; ▷ GA~b; ▷ GA~c	ZATU196	▷ GAR
ZATU126	▷ DUR~a; ▷ DUR~b	ZATU160	▷ GA~c×1(N14)	ZATU197	▷ GAR@g~a; ▷ GAR@g~b; ▷ GAR@g~c
ZATU127	⊖ DUR ₂	ZATU161	▷ GA~a.ZATU753	ZATU198	≡ GAR ₃
ZATU128	≡ E~a; ≡ E~b; ≡ E~c; ≡ E~d	ZATU162	□ GA ₂ ~a1; □ GA ₂ ~a2; □ GA ₂ ~a3; □ GA ₂ ~a4; □ GA ₂ ~b; □ GA ₂ ~c	ZATU199	▷ GARA ₂ ~a; ▷ GARA ₂ ~b
ZATU129	≡ E ₂ ~a; ≡ E ₂ ~b; ≡ E ₂ ~c; ≡ E ₂ ~d	ZATU163	□ ZATU762~b×AB~a	ZATU200	▷ GAZI
ZATU130	≡ KUR~a.E ₂ ~a ; ≡ KUR~b.E ₂ ~a	ZATU164	□ GA ₂ ~a1×1(N57)	ZATU201	▷ SAL.KUR~a
ZATU131	≡ E ₂ ~a×1(N58@t) ; ≡ E ₂ ~b×1(N58@t)	ZATU165	Only in UET II as BAU328 = GA ₂ ×(N58).BAD . GA ₂ ~a1×1(N57)	ZATU202	▷ GEŠTIN~a; ▷ GEŠTIN~d; ▷ GESTIN~e
ZATU132	▷ E ₃ ~a; ▷ E ₃ ~b	ZATU166	▷ GA ₂ ~b×DUB~a ; ▷ GA ₂ ~b×DUB~b	ZATU203	▷ GEŠTU~a; ▷ GEŠTU~b; ≡ GEŠTU~c3; ≡ GEŠTU~c5
ZATU133	▷ EDIN	ZATU167	▷ GA ₂ ~a1×GIR~a	ZATU204	» GI
ZATU134	≡ EN~a; ≡ EN~b; ≡ EN~c; ≡ EN~e	ZATU168	▷ GA ₂ ~a1×GIŠ@t	ZATU205	ATU 1, 28=P001294 ATU 5, pl. 068, W 9579, av read GI&GI GI×SIG ₂ ~d1 ;
ZATU135	≡ NUN~a+EN~a ; ≡ NUN~a+EN~b ; ≡ NUN~a+EN~d ; ≡ NUN~b+EN~a	ZATU169	▷ GA ₂ ~a2×(ŠE ₃ .GU ₄)	ZATU206	≡ (GI&GI)×ŠE ₃
ZATU136	ZATU EN+UDU(?) read in CDLI as X in hapax ATU 1, 342=P001563 ATU 5, pl. 104, W 9656, es i 1.	ZATU170	▷ GA ₂ ~a1×HI	ZATU207	» GI×GIŠ@t
ZATU137	▷ EN@g~a; ▷ EN@g~b	ZATU171	▷ GA ₂ ~a1×(HI.SUHUR)	ZATU208	» GI×LAGAB~a
ZATU138	≡ EN ₂	ZATU172	▷ GA ₂ ~a1×KU ₃ ~a ; ▷ GA ₂ ~b×KU ₃ ~a	ZATU209	» GI×NAM ₂
ZATU139	▷ ENDIB	ZATU173	▷ GA ₂ ~a1×KU ₆ ~a ; ▷ GA ₂ ~b×KU ₆ ~a	ZATU210	» GI×SIG ₂ ~d1
ZATU140	▷ ENGIZ	ZATU174	▷ GA ₂ ~a1×(KU ₆ ~a+KU ₆ ~a)	ZATU211	» GI×1(N14)
ZATU141	▷ ENKUM	ZATU175	▷ LAGAB~b×KUR~e	ZATU212	» Gl ₄ ~a; » Gl ₄ ~b
ZATU142	▷ ENLIL	ZATU176	▷ GA ₂ ~a1×MAŠ	ZATU213	≡ Gl ₆
ZATU143	▷ ERIM~a; ≡ ERIM~b1; ≡ ERIM~b2	ZATU177	▷ GA ₂ ~a1×NAGA~a	ZATU214	≡ GIBIL
ZATU144	▷ ERIM ₂	ZATU178	▷ GA ₂ ~a2×NI~a ; ▷ GA ₂ ~a2×NI~b	ZATU215	▷ GIBIL ₆
ZATU145	▷ ERIN	ZATU179	▷ GA ₂ ~a1×SUHURI ; ▷ GA ₂ ~a2×SUHURI	ZATU216	▷ GIR~a; ▷ GIR~b; ▷ GIR~c; ▷ GIR~d
ZATU146	≡ 3(N57)	ZATU180	▷ GA ₂ ~a1×SUKUD	ZATU217	▷ KU ₆ ~d
ZATU147	▷ EŠDA	ZATU181	▷ GA ₂ ~a1×SUMAŠ	ZATU218	▷ GIR ₂ ~a; ▷ GIR ₂ ~b
ZATU148	▷ EŠDA×TAR~a	ZATU182	▷ GA ₂ ~a1×1(N14)	ZATU219	▷ GIR ₃ ~a; ▷ GIR ₃ ~b; ▷ GIR ₃ ~c
ZATU149	≡ EŠGAR	ZATU183	▷ GA ₂ ~a1×U ₄	ZATU220	▷ GIR ₃ ~a×ŠE~b
ZATU150	▷ EZEN~a; ▷ EZEN~b; EZEN~b@t; ▷ EZEN~c	ZATU184	▷ GA'AR~a1; ▷ GA'AR~a2; ▷ GA'AR~b1; ▷ GA'AR~b2	ZATU221	▷ GIR ₃ @g~a; ▷ GIR ₃ @g~b; ▷ GIR ₃ @g~c
ZATU151	▷ EZEN~a×EN~a ; ▷ EZEN~a×EN~b	ZATU185	▷ ZATU737×BUR~a	ZATU222	≡ GISAL~a; ▷ GISAL~b
ZATU152	▷ EZEN~a×KAB	ZATU186	▷ GADA~a; ▷ GADA~b	ZATU223	≡ GIŠ
ZATU153	▷ EZEN~a×NIM~b2	ZATU187	▷ GADA~b@g	ZATU224	▷ GIŠ×(DIN.DIN))~a ; ▷ GIŠ×(DIN.DIN))~b ; ▷ GIŠ×(DIN.DIN))~c
ZATU154	▷ EZEN~a×NIMGIR	ZATU188	▷ GAL~a; ▷ GAL~b	ZATU225	▷ (GIŠ×ŠU ₂)~a ; ▷ (GIŠ×ŠU ₂)~b
ZATU155	▷ EZEN~a×RAD~a	ZATU189	▷ GALGA~a; ▷ GALGA~b	ZATU226	▷ GIŠ.TE
		ZATU190	▷ GAN~a; ▷ GAN~b; ▷ GAN~c	ZATU227	≡ GIŠ@t
		ZATU191	▷ GAN~c×(HI.DIN)	ZATU228	▷ GIŠ~a; ▷ GIŠ~b
		ZATU192	▷ GAN~c×LAGAB~b	ZATU229	▷ GIŠGAL
				ZATU230	» GIŠIMMAR~a1; » GIŠIMMAR~a2; » GIŠIMMAR~a3; » GIŠIMMAR~b1; » GIŠIMMAR~b2; » GIŠIMMAR~b3

ZATU231	☞ GIZZAL~v	ZATU271	☞ KA~a	ZATU304	☞ KUR~a; ☞ KUR~b;
ZATU232	► GU	ZATU272	Read as sequence KA GI.	ZATU305	= ☞ KUR~c; ☞ KUR~d
ZATU233	-□ GU ₂	ZATU273	☞ KA~a×SAR~a	ZATU306	☞ KUŠU ₂ ~a; ☞ KUŠU ₂ ~b;
ZATU234	▷ GU ₄	ZATU274	☞ KA~a.ŠE~a	ZATU307	☞ KUŠU ₂ ~c; ☞ KUŠU ₂ ~d;
ZATU235	☞ GU ₇	ZATU275	☞ KA~a; ☞ KA~b; ☞ KA ₂ ~c	ZATU308	☞ KUŠU ₂ ~e; ☞ KUŠU ₂ ~f
ZATU236	☞ GUB ₃ ~a; ☞ GUB ₃ ~b; ☞ GUB ₃ ~c; ☞ GUB ₃ ~d	ZATU276	☞ KA ₂ ~d×LAM~b	ZATU309	☞ LA~b; ☞ LA~c; ☞ LA~d
ZATU237	☞ GUG ₂	ZATU277	☞ KAB	ZATU310	□ LAGAB~a; □ LAGAB~b
ZATU238	☞ GUG ₂ ×SILA ₃ ~a	ZATU278	☞ KAB×1(N58)	ZATU311	☞ LAGAB~a×DU ₆ ~a
ZATU239	☞ GUG ₂ ×TUR	ZATU279	☞ KAD ₄ ~a; ☞ KAD ₄ ~b; ☞ KAD ₄ ~c1; ☞ KAD ₄ ~c2	ZATU312	☞ LAGAB~b×HII
ZATU240	☞ GUJKAL~a; ☞ GUJKAL~b; ☞ GUJKAL~c; ☞ GUJKAL~d	ZATU280	▷ KAK~a; ▷ KAK~b	ZATU313	☞ LAGAB~a×KU ₆ ~a
ZATU241	☞ GUJKAL~a.HI@g~a	ZATU281	☞ KAL~a; ⇛ KAL~b1; ⇒ KAL~b2	ZATU314	☞ LAGAB~a×KUŠU ₂ ~a@t
ZATU242	☞ GUL	ZATU282	☞ KALAM~a; ☞ KALAM~b; ☞ KALAM~c; ☞ KALAM~d; ☞ KALAM~e; ☞ KALAM~f; ☞ KALAM~g; ☞ KALAM~h; ☞ KALAM~h2	ZATU315	☞ LAGAB~a×ME~a
ZATU243	☞ GUM~a; ☞ GUM~b	ZATU283	☞ KAR	ZATU316	☞ LAGAB~a×NUN~b
ZATU244	☞ GUM~b@n	ZATU284	☞ KAR ₂ ~a; ☞ KAR ₂ ~b	ZATU317	☞ LAGAB~a×PA~a
ZATU245	☞ GUN ₃ ~a; ☞ GUN ₃ ~b	ZATU285	☞ KASKAL	ZATU318	☞ LAGAB~b×PA~a
ZATU246	☞ GUR	ZATU286	☞ KAŠ~a; ☞ KAŠ~b; ⇒ KAŠ~d	ZATU319	☞ LAGAB~a×ŠITA~a1
ZATU247	☞ GURUŠ~a; ☞ GURUŠ~b	ZATU287	☞ KAŠ~c	ZATU320	○ LAGAB~a×2(N14)
ZATU248	☞ GURUŠ~a×2(N14) ; ☞ GURUŠ~b×2(N14) ; ☞ GURUŠ~c×2(N14)	ZATU288	☞ KAŠ~b×ŠE~a@t	ZATU321	☞ LAGAB~a×ZATU753
ZATU249	☞ GURUŠDA	ZATU289	☞ KI	ZATU322	LAGAB×ZATU766 ; collation on P004228 o i 4b suggests not all of LAGAB is present; read X in CDLI-tc
ZATU250	☞ HAL	ZATU290	☞ KIB	ZATU323	☞ LAGAR~a; ☞ LAGAR~b1; ☞ LAGAR~b2; ☚ LAGAR~c
ZATU251	☞ HALUB	ZATU291	☞ KID~a; ☞ KID~b; ☞ KID~c; ☞ KID~d; ☞ KID~e	ZATU324	☞ LAHTAN ₂
ZATU252	☞ HAŠHUR	ZATU292	☞ KIN	ZATU325	☞ LAL ₂ ~a; ☞ LAL ₂ ~b
ZATU253	☞ HAŠHUR×MA	ZATU293	☞ KIN ₂ ~a; ☞ KIN ₂ ~b; ☞ KIN ₂ ~c; ☞ KIN ₂ ~d; ☞ KIN ₂ ~e	ZATU326	☞ LAL ₂ ~a×EZEN~a
ZATU254	☞ HI; ☚ HI~b	ZATU294	☞ KINGAL	ZATU327	☞ LAL ₃ ~a; ☚ LAL ₃ ~b
ZATU255	☞ HI×1(N57@t)	ZATU295	☞ KISAL~a1; ☞ KISAL~a2; ☞ KISAL~b1; ☞ KISAL~b2; ☞ KISAL~b3	ZATU328	☞ LAM~a; ☚ LAM~b
ZATU256	☞ HI.SUHUR	ZATU296	☞ KISIM~a; ☚ KISIM~b; ☞ KISIM~c	ZATU329	☞ KUR@g~a; ☚ KUR@g~b; ☞ LAM~b@s
ZATU257	☞ HI×ZATU707~a	ZATU297	☞ KiŠ	ZATU330	☞ LI
ZATU258	☞ HI@g~a; ☚ HI@g~b; ☞ HI@g~c	ZATU298	☞ KIŠIK~a; ☚ KIŠIK~b	ZATU331	> LIŠ
ZATU259	≡ I	ZATU299	☞ KITI	ZATU332	☞ LU ₂
ZATU260	☞ IB~a; ☚ IB~b; ☚ IB~c	ZATU300	☞ KU~a; ☚ KU~b1; ☚ KU~b2	ZATU333	☞ LU ₂ ×GEŠTU~c3
ZATU261	☞ IDIGNA	ZATU301	☞ KU ₃ ~a; ☚ KU ₃ ~c	ZATU334	☞ LUGAL
ZATU262	☞ IL	ZATU302	☞ KU ₆ ~a; ☚ KU ₆ ~c	ZATU335	☞ LUM
ZATU263	☞ ILDUM~a; ☚ ILDUM~b	ZATU303	☞ KU ₆ ~a+KU ₆ ~a	ZATU336	☞ MA
ZATU264	☞ IM~a; ☚ IM~b			ZATU337	☞ MA×MA
ZATU265	☞ IN~b			ZATU338	☞ MA ₂
ZATU266	☞ IN~d			ZATU339	☞ MAGUR~a; ☚ MAGUR~b
ZATU267	☞ IR~a; ☚ IR~b; ☚ IR~c; ☞ IR~d			ZATU340	☞ MAH~a; ☚ MAH~b
ZATU268	☞ IR ₁₁			ZATU341	☞ MAH~a×GUKKAL~a
ZATU269	☞ IRHAN			ZATU342	☞ MAH~a×KU ₆ ~a ;
ZATU270	☞ IS~a; ☚ IS~b; ☚ IS~c			ZATU343	☞ MAH~b×KU ₆ ~a

ZATU347	MAH~a×TUG ₂ ~a	ZATU385	NAM ₂ ×1(N01)	ZATU418	NU@g
ZATU348	MAH~a×UD ₅ ~a	ZATU386	NAM ₂ @g	ZATU419	NU ₁₁
ZATU349	MAH~a×UDU~a	ZATU387	NAMEŠDA	ZATU420	NUMUN ₂
ZATU350	MAH~a×UR~a	ZATU388	NANNA~a; NANNA~b	ZATU421	NUN~a; NUN~b; NUN~c; NUN~d
ZATU351	MAH~a×UTUA~a	ZATU389	AB~a×KU ₆ ~a ; NANŠE~a; NANŠE~b	ZATU422	NUN~a+A
ZATU352	MAR~a; MAR~b	ZATU390	NAR	ZATU423	NUNUZ~a0; NUNUZ~a1; NUNUZ~a2; NUNUZ~b1; NUNUZ~b2; NUNUZ~c
ZATU353	MAR~b×(LAGAB~b.ŠE ₃)	ZATU391	NE~a; NE~b; NE~c; NE~d	ZATU424	3(N57).NUNUZ~a1 ; 3(N57).NUNUZ~c
ZATU354	MAR~b×ŠE~a	ZATU392	NERGAL~v	ZATU425	PA~a; PA~b
ZATU355	MAŠ	ZATU393	NI~a; NI~b	ZATU426	PAD~a; PAD~b
ZATU356	ZATU MAŠ+GAN ₂ read as MAŠ GAN ₂ in CDLI-tc	ZATU394	NI~a@g	ZATU427	PAP~a; PAP~b
ZATU357	MAŠ ₂	ZATU395	See new copy of ATU 1, 143 in P001212=ATU 5, pl. 054, W 9335,i.	ZATU428	PIRIG~a1; PIRIG~a2; PIRIG~a3; PIRIG~b1; PIRIG~b2
ZATU358	ME~a; ME~b	ZATU396	NI ₂	ZATU429	3(N57).PIRIG~b1
ZATU359	ME ₃	ZATU397	NIGIN	ZATU430	PU ₂
ZATU360	MEN~a; MEN~b	ZATU398	NIM~a; NIM~b1; NIM~b2; NIM~b3; NIM~d	ZATU431	RA
ZATU361	MES	ZATU399	NIMGIR	ZATU432	RAD~a; RAD~b
ZATU362	MIR~a; MIR~b	ZATU400	NIN	ZATU433	RAD~a@g
ZATU363	MU	ZATU401	NINDA ₂	ZATU434	Rl ₈ ~a; Rl ₈ ~b
ZATU364	MUD	ZATU402	NINDA ₂ ×BA	ZATU435	RU
ZATU365	MUD ₃ ~a; MUD ₃ ~b; MUD ₃ ~c; MUD ₃ ~d	ZATU403	NINDA ₂ ×EZEN~b	ZATU436	SA~a; SA~c
ZATU366	MUD ₃ ~a@g	ZATU404	NINDA ₂ ×GARI	ZATU437	SAG
ZATU367	MUL	ZATU405	NINDA ₂ ×GIŠ	ZATU438	SAG×GEŠTU~a ; SAG×GEŠTU~b ; SAG×GEŠTU~c
ZATU368	MUN~a1; MUN~a2; MUN~a3; MUN~a4; MUN~b	ZATU406	NINDA ₂ ×(AN.ME~a) ; NINDA ₂ ×(HI.AN.ME~a) ; NINDA ₂ ×GUDU ₄	ZATU439	SAG×MA
ZATU369	MUNŠUB~a; MUNŠUB~b	ZATU407	NINDA ₂ ×HI	ZATU440	SAG×1(N14)
ZATU370	MUNU ₃	ZATU408	NINDA ₂ ×MAR~a ; NINDA ₂ ×MAR~b	ZATU441	SAG@n
ZATU371	MURUB ₂	ZATU409	NINDA ₂ ×U ₄	ZATU442	SAGŠU
ZATU372	ZATU MURUB ₃ read ME~a EN~b LAGR~b1 in hapax P000849=ATU 1, 480=ATU 5 pl. 17, W 6855, i 1, i.e., ŠITA~b2@g×HI@g~a	ZATU410	NINDA ₂ ×(UDU~a×TAR~a) ; NINDA ₂ ×(UDU~a×TAR~b)	ZATU443	SAL
ZATU373	MUŠ	ZATU411	EZEN~b×6(N57) ; NINDA ₂ ×1(N01) ; NINDA ₂ ×2(N01) ; NINDA ₂ ×1(N08)	ZATU444	SANGA~a; SANGA~b; SANGA~c; SANGA~e
ZATU374	MUŠ ₃ ~a; MUŠ ₃ ~b	ZATU412	NINKUM	ZATU445	SAR~a; SAR~b; SAR~c; SAR~d
ZATU375	MUŠ ₃ ~a@g	ZATU413	NINLIL	ZATU446	KU ₆ ~a@s
ZATU376	MUŠEN	ZATU414	NIR~a; NIR~b	ZATU447	SI
ZATU377	MUŠEN.UR ₃ ~b2	ZATU415	NIR~a×AN	ZATU448	SI×GU ₄
ZATU378	NA~a; NA~b; NA~c; NA~d	ZATU416, ZATU570	NESAG ₂ ~a2; NESAG ₂ ~b	ZATU449	SI×ŠE ₃
ZATU379	NA ₂ ~a; NA ₂ ~b1; NA ₂ ~b2; NA ₂ ~c	ZATU417	NU	ZATU450	Sl ₄ ~a; Sl ₄ ~b; Sl ₄ ~c; Sl ₄ ~d; Sl ₄ ~f
ZATU380	NAB			ZATU451	SIG; SIG~b
ZATU381	NAGA~a; NAGA~b			ZATU452	SIG ₂ ~a1; SIG ₂ ~a2; SIG ₂ ~a3; SIG ₂ ~a4; SIG ₂ ~b; SIG ₂ ~c1; SIG ₂ ~c2; SIG ₂ ~d1; SIG ₂ ~d2; SIG ₂ ~d3; SIG ₂ ~d4; SIG ₂ ~e
ZATU382	NAGAR~a; NAGAR~b			ZATU453	SIG ₂ ~b×1(N14)
ZATU383	NAM~a; NAM~b; NAM~c; NAM~d			ZATU454	SIG ₄
ZATU384	NAM ₂				

ZATU455	(SIG ₇)	ZATU490	SUH ₃	ZATU526	ŠIR~a; ŠIR~b
ZATU456	➤ SILA ₃ ~a; ➤ SILA ₃ ~b; ➤ SILA ₃ ~c	ZATU491	SUHUR	ZATU527	ŠITA~a1; ➤ ŠITA~a2; ➤ ŠITA~a3; ➤ ŠITA~b1; ➤ ŠITA~b2; ➤ ŠITA~b3
ZATU457	➤ SILA ₃ ~a×A	ZATU492	SUKKAL	ZATU528	ŠITA~a1×ŠU
ZATU458	➤ SILA ₃ ~a×DUG~a	ZATU493	SUKUD	ZATU529	ŠITA~a1×KAK~a
ZATU459	➤ SILA ₃ ~a×GA~a	ZATU494	(SUKUD+SUKUD)~a ; (SUKUD+SUKUD)~b ; (SUKUD+SUKUD)~d	ZATU530	ŠITA@g~a; ➤ ŠITA@g~b
ZATU460, ZATU472	➤ SILA ₃ ~a×NI~a ; ➤ SILA ₃ ~b×NI~a ; ➤ SILA ₃ ~b×NI~b ; ➤ SILA ₃ ~d×NI~a	ZATU495	SUKUD@g~a; SUKUD@g~b; SUKUD@g~c; SUKUD@g~d	ZATU531	ŠITA@g~a×1(N04)
ZATU461	➤ SILA ₃ ~a×GARA ₂ ~a	ZATU496	SUM~a; SUM~b	ZATU532	ŠU
ZATU462, ZATU469	➤ SILA ₃ ~a×GEŠTU~a ; ➤ SILA ₃ ~a×GEŠTU~c3 ; ➤ SILA ₃ ~a×GEŠTU~c5	ZATU497	SUMAŠ	ZATU533	ŠU@g
ZATU463	*➤ SILA ₃ ~a×HAŠHURI	ZATU498	SUR	ZATU534	ŠU ₂
ZATU464	◇➤ SILA ₃ ~a×HI	ZATU499	SUSA	ZATU535	ŠU ₂ .E ₂ ~a ; ŠU ₂ .E ₂ ~b
ZATU465	◇➤ SILA ₃ ~a×HI@g~a	ZATU500	ŠA	ZATU536	ŠU ₂ .EN~a ; ŠU ₂ .EN~b
ZATU466	➤ SILA ₃ ~a×IB~a	ZATU501	(ŠA×HI@g~a)~a ; (ŠA×HI@g~a)~b	ZATU537	ŠU ₂ .U ₄ in ATU 206 read as AB ₂ in P001387=ATU 5 pl.80, W 9655,o.
ZATU467	➤ SILA ₃ ~a×KAŠ~a ; ➤ SILA ₃ ~a×KAŠ~c ; ➤ SILA ₃ ~a×KAŠ~d	ZATU502	ŠA@g	ZATU538	ŠU ₁₂
ZATU468	➤ SILA ₃ ~a×KUR~a	ZATU503	◊ ŠA ₃ ~a1; ◊ ŠA ₃ ~a2; ◊ ŠA ₃ ~b; ◊ ŠA ₃ ~c; ◊ ŠA ₃ ~d	ZATU539	ŠUBUR
ZATU469	see ZATU462	ZATU504	ŠAB~a; ŠAB~b	ZATU540	1(N57).ŠUBUR ; 3(N57).ŠUBUR
ZATU470	+➤ SILA ₃ ~a×MAŠ	ZATU505	Delete, W 14777,e = P002181 now read GAL~a ŠAB~a AL.	ZATU541	ŠUM
ZATU471	➤ SILA ₃ ~a×NAGA~a ; ➤ SILA ₃ ~b×NAGA~b	ZATU506	ŠAGAN	ZATU542	ŠUNIGIN taken as DA in CDLI.
ZATU472	see ZATU460	ZATU507	ŠAGINA	ZATU543	ŠUR ₂ ~a; ŠUR ₂ ~b; ŠUR ₂ ~c
ZATU473	~➤ SILA ₃ ~a×MA	ZATU508	ŠAH ₂ ~a; ŠAH ₂ ~b; ŠAH ₂ ~c	ZATU544	ŠURUPPAK~a; ŠURUPPAK~b
ZATU474	➤ SILA ₃ ~a×SUM~a ; ➤ SILA ₃ ~a×SUM~b	ZATU509	ŠAKIR~a; ŠAKIR~b; ŠAKIR~c	ZATU545	TA~a; TA~b; TA~c; TA~d; TA~e
ZATU475	➤ SILA ₃ ~a×ŠE~a	ZATU510	ŠAM ₂	ZATU546	= 2(N57)
ZATU476	➤ SILA ₃ ~a×ŠU ; ➤ SILA ₃ ~c×ŠU	ZATU511	ŠE~a; ŠE~b; ŠE~c	ZATU547	TAG~a1; TAG~a2; TAG~a3; TAG~a4; TAG~b; TAG~c; TAG~d
ZATU477	➤ SILA ₃ ~a×ŠU ₂	ZATU512	◊ ŠE~a.KIN ₂ ~c	ZATU548	TAK ₄ ~a; TAK ₄ ~c
ZATU478	➤ SILA ₃ ~a×(ZATU659.TU~c)	ZATU513	◊ ŠE~a.NAM ₂	ZATU549	TAR~a
ZATU479	Delete, W 16012,b+ = P002571 now read UDU ŠITA.	ZATU514	SAR~a×ŠE~a	ZATU550	TE
ZATU480	➤ SILA ₃ ~c×ZATU687	ZATU515	◊ ŠE~a&ŠE~a	ZATU551	TI
ZATU481	➤ SILA ₃ ~a×1(N57) ; ➤ SILA ₃ ~a×1(N58)	ZATU516	ŠE ₃	ZATU552	TIDNUM
ZATU482	➤ SILA ₄ ~a; ➤ SILA ₄ ~b; ◎ SILA ₄ ~c; ➤ SILA ₄ ~d	ZATU517	Delete, W 17586 = P002625 now read as 1(N01) KU ₃ .	ZATU553	TILLA ₂
ZATU483	◎ SILANITA	ZATU518	ŠE ₃ @t	ZATU554	TU~a; TU~b; TU~c
ZATU484	➤ SIMUG	ZATU519	ŠEG ₉	ZATU555	TUG ₂ ~a; TUG ₂ ~b; TUG ₂ ~c; ● TUG ₂ ~d
ZATU485	➤ SU~a; ➤ SU~b; ➤ SU~c	ZATU520	ŠELU	ZATU556, ZATU558	
ZATU486	➤ SU~a×1(N58)	ZATU521	ŠEN~a; ŠEN~b; ŠEN~c; ŠEN~d;	ZATU557	TUG ₂ ~a.BAD&BAD
ZATU487	◊ SU ₃	ZATU522	ŠENNUR~a; ŠENNUR~b	ZATU558	see ZATU556
ZATU488	◎ SUG	ZATU523	ŠEŠ~a; ŠEŠ~b	ZATU559	Damaged, identification uncertain, possibly KAB.
ZATU489	◎ SUG ₅	ZATU524	ŠIDIM	ZATU560	TUM~a; TUM~b; TUM~c; TUM~d
		ZATU525	ŠIM~a; ŠIM~b		

ZATU561	☒ TUN ₃ ~a; ☒ TUN ₃ ~b; ☒ TUN ₃ ~c	ZATU597	☒ URU~a1; ☒ URU~a2; ☒ URU~b1; ☒ URU~b2; ☒ URU~c	ZATU628	☒ ZATU628~a; ☒ ZATU628~b
ZATU562	☒ TUR	ZATU598	☒ JURU~a1×AMAR	ZATU629	☒ ZATU629
ZATU563	☒ TUR ₃ ~a; ☒ TUR ₃ ~b; ☒ TUR ₃ ~c	ZATU599	☒ JURU~a3×KALAM~a	ZATU630	☒ ZATU630
ZATU564	• 1(N14)	ZATU600	☒ JURU~a1×NIMGIR	ZATU631	☒ ZATU631
ZATU565	☒ U ₂ ~a; ☒ U ₂ ~b; ☒ U ₂ ~c	ZATU601	☒ JURU~a1×1(N57) ; ☒ JURU~a1×2(N57) ; ☒ JURU~a2×1(N58)	ZATU632	☒ ZATU632~a; ☒ ZATU632~b; ☒ ZATU632~c
ZATU566	☒ U ₄	ZATU602	☒ URUDU~a; ☒ URUDU~c; ☒ URUDU~d	ZATU633	☒ ZATU633~a; ☒ ZATU633~b
ZATU567	☒ KI@n×DUB~a	ZATU603	☒ URUDU@g~a; ☒ URUDU@g~b; ☒ URUDU@g~c; ☒ URUDU@g~d	ZATU634	☒ ZATU634
ZATU568	☒ U ₄ .ŠU ₂	ZATU604	☒ UŠ~a; ☒ UŠ~b	ZATU635	☒ ZATU635
ZATU569	☒ U ₄ ×1(N01)	ZATU605	☒ UŠ~b×TAR~c	ZATU636	☒ ZATU636
ZATU570	see ZATU416	ZATU606	☒ 1(N02)	ZATU637	☒ ZATU637
ZATU571	☒ U ₈	ZATU607	☒ USUMGAL	ZATU639	☒ ZATU639
ZATU572	☒ UB	ZATU608	☒ UŠUR ₃ ~b1; ☒ UŠUR ₃ ~b2	ZATU640	☒ ZATU640
ZATU573	☒ UBI~a; ☒ UBI~c; ☒ UBI~d	ZATU609	☒ UTUA~a; ☒ UTUA~b	ZATU641	☒ ZATU641
ZATU574	☒ UD ₅ ~a; ☒ UD ₅ ~b; ☒ UD ₅ ~c	ZATU610	☒ UTUL~a; ☒ UTUL~b; ☒ UTUL~c; ☒ UTUL~d	ZATU642	☒ ZATU642
ZATU575	☒ UDU~a; ☒ UDU~b; ☒ UDU~c	ZATU611	☒ UZ~a	ZATU643	☒ ZATU643
ZATU576	☒ UDU~a×TAR~a ; ☒ UDU~a×TAR~b	ZATU612	☒ ZA~v	ZATU644	☒ ZATU644~a; ☒ ZATU644~b
ZATU577	☒ 3(N57).UDU~a	ZATU613	☒ ZABALAM~a; ☒ ZABALAM~b	ZATU645	☒ ZATU644~a×1(N14)
ZATU578	☒ UDUNITA~a; ☒ UDUNITA~b; ☒ UDUNITA~c	ZATU614	☒ SILA ₃ ~a×NUN~b	ZATU646	☒ ZATU646
ZATU579	☒ UH ₃ ~a; ☒ UH ₃ ~b	ZATU615	☒ ZAG~a; ☒ ZAG~b; ☒ ZAG~c	ZATU647	☒ ZATU647
ZATU580	☒ UKKIN~a; ☒ UKKIN~b; ☒ UKKIN~c; ☒ UKKIN~d	ZATU616	☒ ZAR~a; ☒ ZAR~b1; ☒ ZAR~b2; ☒ ZAR~c	ZATU648	☒ ZATU648
ZATU581	☒ UMBIN~a; ☒ UMBIN~b1; ☒ UMBIN~b2; ☒ UMBIN~c	ZATU617	☒ ZI~a; ☒ ZI~b; ☒ ZI~d	ZATU649	☒ ZATU649
ZATU582	☒ UMUN ₂	ZATU618	☒ 1(N04)	ZATU650	☒ ZATU650
ZATU583	☒ UNUG~a; ☒ UNUG~b; ☒ UNUG~c	ZATU619	☒ ZUBI~a; ☒ ZUBI~b	ZATU651	☒ ZATU651
ZATU584	☒ UNUG~a×A@t	ZATU620	☒ ZATU620	ZATU652	☒ ZATU651×AN
ZATU585	☒ UNUG~a@s	ZATU621	☒ ZATU621~a; ☒ ZATU621~b; ☒ ZATU621~c; ☒ ZATU621~d	ZATU653	☒ ZATU651×EN~a
ZATU586	☒ UR~a; ☒ UR~b; ☒ UR~c	ZATU622	☒ ZATU622	ZATU654	☒ ZATU651×GAR
ZATU587	☒ UR~a@g	ZATU623	☒ ZATU623	ZATU655	☒ ZATU651×MA
ZATU588	☒ UR ₂	ZATU624	☒ ZATU624~a; ☒ ZATU624~b; ☒ ZATU624~c	ZATU656	☒ ZATU651×NUN~a
ZATU589	☒ UR ₂ ×1(N57)	ZATU625	☒ ZATU625	ZATU657	☒ ZATU651×ŠE~a
ZATU590	☒ UR ₂ ×TAR~c	ZATU626	☒ ZATU626~a; ☒ ZATU626~b; ☒ ZATU626~c	ZATU658	☒ ZATU651@g
ZATU591	☒ UR ₃ ~a1; ☒ UR ₃ ~a2; ☒ UR ₃ ~a3; ☒ UR ₃ ~b1; ☒ UR ₃ ~b2; ☒ UR ₃ ~d2	ZATU627	☒ ZATU627	ZATU659	☒ ZATU659
ZATU592	☒ UR ₄ ~a; ☒ UR ₄ ~b; ☒ UR ₄ ~c			ZATU660	☒ ZATU659×1(N58@t)
ZATU593	☒ UR ₅ ~a; ☒ UR ₅ ~b			ZATU661	☒ ZATU659×1(N14)
ZATU594	☒ URI			ZATU662	☒ ZATU662
ZATU595	☒ URI ₃ ~a; ☒ URI ₃ ~b			ZATU663	☒ ZATU662×1(N14)
ZATU596	☒ URI ₅			ZATU664	☒ ZATU664
				ZATU665	☒ ZATU665
				ZATU666	☒ ZATU666
				ZATU667	☒ ZATU667
				ZATU668	☒ ZATU668
				ZATU669	☒ ZATU669
				ZATU670	☒ ZATU670
				ZATU671	Damaged, identification uncertain.
				ZATU672	☒ ZATU672
				ZATU674	☒ ZATU674

ZATU675	ZATU675~a; ZATU675~b; ZATU675~c; ZATU675~d	ZATU707	ZATU707~a; ZATU707~b	ZATU749	ZATU749~a; ZATU749~b; ZATU749~c
ZATU676	ZATU676~a; ZATU676~b	ZATU708	ZATU708	ZATU750	ZATU750
ZATU677	ZATU677~a; ZATU677~b	ZATU709	ZATU709	ZATU751	ZATU751~a; ZATU751~b
ZATU678	ZATU678	ZATU710	ZATU710	ZATU752	ZATU752
ZATU679	ZATU679	ZATU711	ZATU711	ZATU753	ZATU753
ZATU680	ZATU680~a1; ZATU680~a2; ZATU680~b; ZATU680~d; ZATU680~e	ZATU712	ZATU711×HI@g~a	ZATU754	ZATU754
ZATU681	ZATU681	ZATU713	ZATU713	ZATU755	ZATU755~a; ZATU755~b
ZATU682	ZATU682	ZATU714	ZATU714	ZATU756	ZATU756
ZATU683	ZATU683~a; ZATU683~b	ZATU715	ZATU714×HI@g~a	ZATU757	ZATU757
ZATU684	ZATU684	ZATU716	ZATU714.RU	ZATU758	ZATU758
ZATU685	ZATU685	ZATU717	ZATU717	ZATU759	ZATU759
ZATU686	ZATU686~a; ZATU686~b; ZATU686~c	ZATU718	ZATU718	ZATU760	ZATU759×KU~a ; ZATU759×KU~d
ZATU687	ZATU687	ZATU719	ZATU719	ZATU761	ZATU761
ZATU688	ZATU688~a; ZATU688~b	ZATU720	ZATU720	ZATU762	ZATU762~a; ZATU762~b
ZATU689	ZATU689	ZATU721	ZATU721	ZATU763	ZATU762~a×NIM~a
ZATU690	ZATU690	ZATU722	ZATU722	ZATU764	ZATU764
ZATU691	ZATU691	ZATU723	ZATU723	ZATU765	ZATU765
ZATU692	ZATU692	ZATU724	ZATU724	ZATU766	ZATU766
ZATU693	ZATU693	ZATU725	ZATU725	ZATU767	ZATU767
ZATU694	ZATU694~a; ZATU694~b; ZATU694~c; ZATU694~d; ZATU694~e	ZATU726	ZATU726~a; ZATU726~c; ZATU726~d	ZATU768	ZATU768
ZATU695	ZATU695	ZATU727	ZATU727	ZATU769	ZATU769
ZATU696	ZATU696	ZATU728	ZATU728	ZATU770	Damaged; ATU 833 = ATU 1, 442 = P001011 ATU 5, pl. 034, W 9071,h; excluded from CDLI list.
ZATU697	ZATU697~a; ZATU697~b; ZATU697~c	ZATU729	ZATU729	ZATU771	ZATU771
ZATU698	DU~c@g	ZATU730	ZATU730	ZATU772	ZATU772
ZATU699	ZATU699~a; ZATU699~b	ZATU732	ZATU732	ZATU773	ZATU773~a; ZATU773~b
ZATU700	ZATU700	ZATU733	ZATU733	ZATU774	ZATU774
ZATU701	ZATU701	ZATU734	ZATU734	ZATU775	ZATU775
ZATU702	ZATU702	ZATU735	ZATU735~a; ZATU735~b; ZATU735~c	ZATU776	ZATU776
ZATU703	ZATU703	ZATU736	ZATU736~a; ZATU736~b	ZATU777	ZATU777
ZATU704	ZATU704	ZATU737	ZATU737	ZATU778	ZATU778
ZATU705	ZATU705	ZATU738	ZATU737×AB~a	ZATU779	ZATU779
ZATU706	ZATU706	ZATU739	ZATU737×DII	ZATU780	ZATU780
		ZATU740	ZATU737×EN~a ; ZATU737×EN~b	ZATU781	ZATU781
		ZATU741	ZATU737×GAR	ZATU782	ZATU782
		ZATU742	ZATU737×NIMGIR	ZATU783	ZATU783
		ZATU743	ZATU737×SAL	ZATU784	ZATU784
		ZATU744	ZATU737×SU~a	ZATU785	ZATU785
		ZATU745	ZATU737×ŠE~a	ZATU786	ZATU786
		ZATU746	ZATU737×ŠITA~b1@g	ZATU787	ZATU787
		ZATU747	ZATU737×U4	ZATU788	ZATU788
		ZATU748	ZATU737×UNUG~a	ZATU789	ZATU789
				ZATU790	Vacat.
				ZATU791	ZATU791
				ZATU792	ZATU792
				ZATU793	Vacat.
				ZATU794	Vacat.

ZATU795		ZATU795	
ZATU796	Vacat.	ZATU817	
ZATU797		ZATU818	
ZATU798		ZATU819	
ZATU799		ZATU820	
ZATU800		ZATU821	
ZATU801		ZATU822	
ZATU802	 	ZATU823	
ZATU803		ZATU824	
ZATU804		ZATU825	
ZATU805		ZATU826	
ZATU806		ZATU827	Vacat.
ZATU807		ZATU828	Vacat.
ZATU808		ZATU829	
ZATU809		ZATU830	Vacat.
ZATU810		ZATU831	
ZATU811		ZATU832	
ZATU812		ZATU833	
ZATU813		ZATU834	
ZATU814		ZATU835	
ZATU815		ZATU836	
ZATU816	Vacat.	ZATU837	
		ZATU838	
		ZATU839	
		ZATU840	
		ZATU841	
		ZATU842	
		ZATU843	
		ZATU844	
		ZATU845	
		ZATU846	
		ZATU847	
		ZATU848	
		ZATU849	
		ZATU850	
		ZATU851	
		ZATU852	
		ZATU853	
		ZATU854	
		ZATU855	
		ZATU856	
		ZATU857	
		ZATU858	
		ZATU859	

C Index of Alternate CDLI Sign Names

×(N57).GAR	> X(N57).GAR	(DUB×DIŠ)~c	> (DUB@n~a×1(N58))~b
AMAR×TAR	= AMAR×TAR~c	*DUG~b+SA~a+GI	> DUG~b×(SA~a.GI)
AMAR×TAR	> AMAR×TAR~c	DUG~b&(DUG~b×1(N58))	= (DUG~b&DUG~b)×1(N58)
AMAR@g	> AMAR@g	DUG~b@r×DIN	= (DUG~b×DIN)@r
APIN	= APIN~a	E₂	= E₂~a
AŠ	= 1(N57)	E₂~a×1(N57)@t	= E₂~a×1(N58@t)
BU~a.DU₆~a	= BU~a+DU₆~a	E₂~a×1(N57)@t	> E₂~a×1(N58@t)
(BU~a&BU~a).NA₂~a@n	= (BU~a%BU~a).NA₂~a@n	E₂~b×1(N57)@t	= E₂~b×1(N58@t)
(BU~a&BU~a).NA₂~a@n	> (BU~a%BU~a).NA₂~a@n	E₂~b×1(N57)@t	> E₂~b×1(N58@t)
BU₃~a	= BU₃	EN	= EN~a
DARA₃~d×KAR₂	> DARA₃~d×KAR₂~b	EN~a+NUN~b	= NUN~b+EN~a
DARA₃~d×KAR₂	= DARA₃~d×KAR₂~b	EN~a×NUN~a	= NUN~a+EN~a
DIN+1(N57)	= DIN×1(N58)	EN₂×E₂~b	= EN₂.E₂~b
DIŠ	= 1(N58)	EŠDA×TAR	= EŠDA×TAR~a
DU×DIŠ	= DU×1(N58@t)	EŠDA×TAR	> EŠDA×TAR~a
DU×DIŠ	> DU×1(N58@t)	EZEM~b×AN	= BAD₃~b₂
DU₆~a×DIŠ	= DU₆~a×1(N58)	EZEM~c	= EZEN~b@t
DU₆~a×DIŠ	> DU₆~a×1(N58)	EZEN~c	= EZEN~b@t
DU₆@g~c	= DU₆~c@g	EZEN~a+KI	= EZEN~a×KI
(DUB×DIŠ)~a	= (DUB@n~a×1(N58))~a	EZEN~a×(HI.1(N57).AN)	= EZEN~a×(HI×1(N57).AN)
(DUB×DIŠ)~a	> (DUB@n~a×1(N58))~a	EZEN~a×(HI.1(N57).AN)	> EZEN~a×(HI×1(N57).AN)
(DUB×DIŠ)~b	= DUB@n~b×1(N58)~a	EZEN~b@t	> EZEN~b@t
(DUB×DIŠ)~b	> DUB@n~b×1(N58)~a	GA₂~a×E₂~a	= GA₂~a1×E₂~a
(DUB×DIŠ)~c	= (DUB@n~a×1(N58))~b	GA₂~a1×(KU₆~a.KU₆~a)	> GA₂~a1×(KU₆~a+KU₆~a)

GA ₂ ~a1×((SUKUD&SUKUD)~a)	> GA ₂ ~a1×((SUKUD+SUKUD)~a)	LAGAB~b×LAGAB~b	= LAGAB~b&LAGAB~b
GA ₂ ~a1×(SUKUD&SUKUD)~a	= GA ₂ ~a1×((SUKUD+SUKUD)~a)	LAGAB~b×(HI×N04)	= LAGAB~b×(HI×1(N04))
GA ₂ ~a1×((SUKUD&SUKUD)~b)	> GA ₂ ~a1×((SUKUD+SUKUD)~b)	LAGAB~b×LAGAB~b	> LAGAB~b&LAGAB~b
GA ₂ ~a1×(SUKUD&SUKUD)~b	= GA ₂ ~a1×((SUKUD+SUKUD)~b)	LAM~b@t	> LAM~b@t
GA ₂ ~a2×(GU ₄ ,ŠE ₃)	= GA ₂ ~a2×(ŠE ₃ ,GU ₄)	LUKUR	= SAL.ME~a
GA ₂ ~a2×(GU ₄ ,ŠE ₃)	> GA ₂ ~a2×(ŠE ₃ ,GU ₄)	MAR@g~a	= MAR~a@g
GA ₂ ~a2×NIM~b1	= GA ₂ ~a1×NIM~b1	MAŠNITA	= MAŠ ₂
GA ₂ ~a2×NIM~b1	> GA ₂ ~a1×NIM~b1	MUD ₃ @g	= MUD ₃ ~a@g
GABURRA	= ZATU737×BUR~a	MUŠEN×1(N57)	= 1(N57).MUŠEN
(GI+&GI)×ŠE ₃	> (GI&GI)×ŠE ₃	MUŠEN×1(N57)	> 1(N57).MUŠEN
GI+A	= GI×A	MUŠEN×2(N57)	= 2(N57).MUŠEN
GI×1(N58)@t	= GI×1(N58)@t	MUŠEN×2(N57)	> 2(N57).MUŠEN
GI×1(N58)@t	> GI×1(N58)@t	MUŠEN×3(N57)	= 3(N57).MUŠEN
Gl ₆ ~a	= Gl ₆	MUŠEN×3(N57)	> 3(N57).MUŠEN
GIR ₃ ~c×KAR ₂	= GIR ₃ ~c×KAR ₂ ~b	1(N58).BAD~a	> 1(N58).BAD
GIR ₃ ~c×KAR ₂	> GIR ₃ ~c×KAR ₂ ~b	1(N58).BAD~a	= 1(N58).BAD
GIR ₃ ~c@g	= GIR ₃ @g~c	BAD+DIŠ~a	= 1(N58).BAD
GIŠ×ŠU ₂ ~a	= (GIŠ×ŠU ₂)~a	1(N58).BAD~b	= (1(N58).BAD)~b
GIŠ×ŠU ₂ ~a	> (GIŠ×ŠU ₂)~a	1(N58).BAD~b	> (1(N58).BAD)~b
GIŠ×ŠU ₂ ~b	= (GIŠ×ŠU ₂)~b	NA	= NA~a
GIŠ×ŠU ₂ ~b	> (GIŠ×ŠU ₂)~b	NAGA	= NAGA~a
GIŠ~x	> GIŠ~v	NERGAL~x	> NERGAL~v
GIZZAL~x	> GIZZAL~v	NINDA ₂ ×(HI+ME~a)	= NINDA ₂ ×(HI.ME~a)
GU~a	= GU	NINDA ₂ ×(HI@g~a.1(N06))	= NINDA ₂ ×(1(N06).HI@g~a)
GU ₄ .ZATU755~a	= GU ₄ .ZATU755~b	NINDA ₂ ×(HI@g~a.1(N06))	> NINDA ₂ ×(1(N06).HI@g~a)
GU ₄ .ZATU755~a	> GU ₄ .ZATU755~b	NINDA ₂ ×((UDU~a+TAR)~b)	= NINDA ₂ ×(UDU~a×TAR~b)
*GU ₄ +1N58	> GU ₄ ×1(N58)	NINDA ₂ ×((UDU~a+TAR)~a)	= NINDA ₂ ×(UDU~a×TAR~a)
GUG ₂ ~a	= GUG ₂	NINDA ₂ ×((UDU~a+TAR)~a)	> NINDA ₂ ×(UDU~a×TAR~a)
GURUŠDA~a	= GURUŠDA	NISAG~a3	= NESAG ₂ ~a2
HI×1(N01)F	> HI×1(N01)@f	NU ₁₁ @t	> NU ₁₁ @t
HI×1(N57)@t	= HI×1(N57)@t	NUNUZ~a1@n	= NUNUZ~a0
HI×1(N57)@t	> HI×1(N57)@t	NUNUZ~a1@t	> NUNUZ~a1@t
(HI×1(N57))&(HI+1(N57))	> (HI×1(N57)).(HI×1(N57))	PAP@t	= PAP~a@t
HI~a	= HI	RAD~a@t	> RAD~a@t
HI@g	= HI@g~a	RU~a	= RU
HI~a@g	= HI@g~a	RU@t	> RU@t
IB~a@n	> IB~a@n	SAG+GEŠTU~a	= SAG×GEŠTU~a
KA ₂ ×LAM	= KA ₂ ~d×LAM~b	SAG+NAM ₂	= SAG×NAM ₂
KA ₂ ×LAM	> KA ₂ ~d×LAM~b	SAG×(UKKIN~b×1(N57))	= SAG+UKKIN~b×1(N57)
KASKAL@g	> KASKAL@g	*SAL.ZATU751~a	> SAL.ZATU751~a
KAŠ~b×ŠE~a	= KAŠ~b×ŠE~a@t	*SAL+ZATU751~b	> SAL.ZATU751~b
KAŠ~b×ŠE~a	> KAŠ~b×ŠE~a@t	*SAL+ZATU751~c	> SAL.ZATU751~c
KAŠ~b@t	> KAŠ~b@t	SIG×1(N57)	= 1(N57).SIG
KI~a	= KI	SIG×1(N57)	> 1(N57).SIG
KI@n+DUB~a	= KI@n×DUB~a	SIG ₂ ~a	= SIG ₂ ~a1
KISAL~b2@t	> KISAL~b2@t	SIG ₂ ~b.SIG ₂ ~b	= SIG ₂ ~b&SIG ₂ ~b
KUR@g~a	> KUR@g~a	SIG ₂ ~b.SIG ₂ ~b	> SIG ₂ ~b&SIG ₂ ~b
KUR@g~b	> KUR@g~b	SILA ₃ ~a+GARA ₂ ~a	= SILA ₃ ~a×GARA ₂ ~a
LA	= LA~b	SILA ₃ ~a+KAŠ~a	= SILA ₃ ~a×KAŠ~a
LAGAB~a×DU ₆ ~b	= LAGAB~a×DU ₆ ~a	SILA ₃ ~a+MUD ₃ ~b	= SILA ₃ ~a×MUD ₃ ~b
LAGAB~a×DU ₆ ~b	> LAGAB~a×DU ₆ ~a	SILANITA~a	= SILANITA
LAGAB~a×KUŠU ₂ ~b	= LAGAB~a×KUŠU ₂ ~a@t	SUG ₅ ~a	= SUG ₅
LAGAB~a×KUŠU ₂ ~b	> LAGAB~a×KUŠU ₂ ~a@t	SUHUR~a	= SUHUR
LAGAB~b+LAGAB~b	= LAGAB~b×LAGAB~b	SUHUR@n	> SUHUR@n

SUKUD@g~d	> SUKUD@g~d	ZATU831@g	> ZATU831@g
SUM~a@t	> SUM~a@t	1(N01@r)	> 1(N01@r)
ŠA ₃ ~b1	= ŠA ₃ ~a2	1(N07~a)	= 1(N07A)
ŠE~a×NAM ₂	= ŠE~a.NAM ₂	2(N07~a)	= 2(N07A)
ŠITA~a	= ŠITA~a1	3(N07~a)	= 3(N07A)
ŠITA~b1×HI@g~a	= ŠITA~b2@g×HI@g~a	1(N07~b)	= 1(N07B)
ŠITA~b1×HI@g~a	> ŠITA~b2@g×HI@g~a	2(N07~b)	= 2(N07B)
ŠU ₂ .((HI+1(N57))+(HI+1(N57))))	= ŠU ₂ .(HI×1(N57))&(HI×1(N57)))	3(N07~b)	= 3(N07B)
ŠU ₂ .((HI+1(N57))+(HI+1(N57))))	> ŠU ₂ .(HI×1(N57))&(HI×1(N57)))	1(N24')	= 1(N24)
ŠU ₂ +AN	= ŠU ₂ .AN	1(N24")	= 1(N24)
ŠU ₂ .AN	= ŠU ₂ .AN	1(N24~a)	= 1(N24A)
ŠU ₂ ×AN	= ŠU ₂ .AN	1(N24~b)	= 1(N24B)
ŠU ₂ ×1(N24)	= ŠU ₂ .1(N24)	1(N26~b)	= 1(N26B)
ŠU ₂ ×3(N57)	= ŠU ₂ ×3(N57)	1(N28~b)	= 1(N28B)
TE~a	= TE	1(N28~c)	= 1(N28C)
TI~a	= TI	1(N29)	= 1(N29A)
TUG ₂ ~a.(BAD&BAD)	> TUG ₂ ~a.BAD&BAD	1(N29~a)	= 1(N29A)
TUKU	= KAB	2(N29~a)	= 2(N29A)
TUKU+DIŠ	= KAB×1(N58)	1(N29~b)	= 1(N29B)
TUR ₃ ~a@n	> TUR ₃ ~a@n	1(N29A~b)	= 1(N29AB)
U ₄ .(1(N14).3(N08))	> U ₄ .1(N14).3(N08)	2(N29A~b)	= 2(N29AB)
U ₄ .(1(N14).4(N08))	> U ₄ .1(N14).4(N08)	1(N29A~c)	= 1(N29AC)
U ₄ .(1(N14).5(N08))	> U ₄ .1(N14).5(N08)	1(N30~a)	= 1(N30A)
U ₄ .(1(N14).8(N08))	> U ₄ .1(N14).8(N08)	1(N30~b)	= 1(N30B)
(U ₄ +1(N14)).1(N08)	= U ₄ .1(N14).1(N08)	1(N30~c)	= 1(N30C)
U ₄ ×(X(N01))	> U ₄ ×N(N01)	1(N30~d)	= 1(N30D)
U ₄ ×1(N01)+1(N24)	= U ₄ ×1(N01).1(N24))	1(N30~e)	= 1(N30E)
U ₄ ×1(N01)F	> U ₄ ×1(N01@f)	1(N30A~c)	= 1(N30AC)
U ₄ ×2(N01).(2(N14).1(N08))	> U ₄ ×2(N01).2(N14).1(N08)	1(N30C~a)	= 1(N30CA)
U ₄ ×(1(N14).3(N01)).(1(N14).4(N08)) = U ₄ ×(1(N14).3(N01)).1(N14).4(N08)	1(N30C~c)	= 1(N30CC)	
U ₄ ×1(N58)@t	= U ₄ ×1(N58@t)	1(N34@f@t)	> 1(N34@f@t)
U ₄ ×1(N58)@t	> U ₄ ×1(N58@t)	1(N39~a)	= 1(N39A)
(U ₈ ×TAR)~b	> U ₈ ×TAR~b	2(N39~a)	= 2(N39A)
UDU	= UDU~a	3(N39~a)	= 3(N39A)
(UDU~a×TAR)~a	> UDU~a×TAR~a	4(N39~a)	= 4(N39A)
(UDU~a×TAR)~b	> UDU~a×TAR~b	1(N39~b)	= 1(N39B)
UET ₂ .405	> BAU405	2(N39~b)	= 2(N39B)
UR	= UR~a	3(N39~b)	= 3(N39B)
UR~a×KAR ₂	= UR~a×KAR ₂ ~b	4(N39~b)	= 4(N39B)
UR~a×KAR ₂	> UR~a×KAR ₂ ~b	1(N42~a)	= 1(N42A)
UR ₂ ×TAR	= UR ₂ ×TAR~c	2(N42~a)	= 2(N42A)
UR ₂ ×TAR	> UR ₂ ×TAR~c	3(N42~a)	= 3(N42A)
URU~a1+1(N58)	= URU~a2×1(N58)	4(N42~a)	= 4(N42A)
URU~a1@n	> URU~a1@n	2(N42~b)	= 2(N42B)
ZA~x	> ZA~v	1(N45~a)	= 1(N45A)
ZABALA~a	= ZABALAM~a	1(N58)@t	= 1(N58@t)
ZATU659×1(N58)@t	= ZATU659×1(N58@t)	1(N58@t)	> 1(N58@t)
ZATU659×1(N58)@t	> ZATU659×1(N58@t)	2(N57).DU ₆ ~a@n	= X ₂
ZATU683@t	> ZATU683@t	N(N57).GAR	= X(N57).GAR
ZATU737×ŠITA@g~a	> ZATU737×ŠITA~b1@g	8(N57).NI~b	> NI~b×8(N57)
ZATU741	= ZATU737×GAR		

D PCSL Non-PC25

This table gives every text in the PC corpus that contains one or more unencoded signs, along with a list in the 'Missing' column of the specific signs which are not in the PC25 encoding.

CDLI	MusNo	Time	Place	Pub	Missing
P001731		VA — ?			SILA ₃ ~c×ŠU
P002078		VA — ?			SILA ₃ ~c
P002231		IM 023434,w			ZATU814
P002248		IM 023434,b			NINDA ₂ ×BA
P002261		IM 023435,12			ZATU815
P002264		IM 023435,19			(GI&GI)×ŠE ₃
P002269		IM 023435,10			NINDA ₂ ×(UDU~a×TAR-b) NUMUN ₂
P002464		IM 023445,03			ŠITA@g~a×1(N04)
P002571		IM 023449,1			LA~c ŠITA~a1×UDU~a ŠITA~a1×1(N06)
P002624		W 17480,b			(GI&GI)×ŠE ₃
P002697		IM 046011 + IM 046061			NUMUN ₂
P002741		IM 045991			EZEN~a×SAG
P002758		IM 045978			ZATU805
P002874		IM 045912			GAN~c×NE~a GAN~c×ŠE~a GAN~c×ŠE ₃ @t
P002882		IM 045941			NESAG ₂ ~b@t
P002891		IM 046146			GA ₂ ~a1×NAGA~a GAN~c×ŠE~a SILA ₃ ~d×NI~a
P003081		W 19408,46			SIG ₂ ~b×1(N14)
P003082		W 19408,47			≡▷ KAD ₄ ~c1 ≡▷ KAD ₄ ~c2
P003096		W 19408,60			ALAN~d
P003098		IM 133643			LAM~b@s

P003163	IM 133666	 SILA ₃ ~a×HI@g~a
P003251	IM 064851	 GA ₂ ~a1×(HI.SUHUR)  GA ₂ ~a1×((SUKUD+SUKUD)~a)
P003252	IM 064852	 ZATU634
P003403	IM 065104	 HI×ZATU707~a
P003406	IM 065106	 GIBIL@t
P003407	IM 065107	 URUDU@g~b
P003433	IM 065115	 MAH~b×KU ₆ ~a
P003436	IM 065116	 E~d
P003488	W 20243,1	 KAB×1(N58)
P003492	history; history	IM 067375 Nissen1986WorldArchaeology17; Spec1722 MAGUR~b
P003541	W 20274,043	 SAG×1(N14)
P003543	W 20274,045	 GA ₂ ~a2×NI~b
P003798	W 20496,1	 SILA ₃ ~a×HI@g~a
P003809	W 20511,03	 GALGA~b
P003839	IM 134421	 LU ₂ ×GEŠTU~c3
P003977	history	IM 073483 Schmandt-Besserat1992BeforeWriting SIG ₂ ~b×1(N14)
P003997	IM 134508	 LAGAB~b×BANŠUR~a  LAGAB~b×GA'AR~a1
P004010	IM 134519,1	 NINDA ₂ ×(UDU~a×TAR~a)
P004079	IM 134567	 TUG ₂ ~d  UDU~b
P004128	IM 074216	 DUG~a×KASKAL  DUG~a×LAM~b
P004151	IM 134623	 ZATU627
P004175	IM 074278	 ZATU632~c
P004199	IM 134670	 SILA ₃ ~a×1(N58)
P004204	IM 074279	 GADA~b
P004222	IM 134688	 ŠIDIM@t

P004228	IM 074288	 KA ₂ ~c LAL ₂ ~a×EZEN~a
P004230	IM 134695	 EN~c&EN~c
P004312	IM 074296	 ZUBI~b
P004328	IM 134845	 ZATU651×ŠE~a
P004329	IM 134846	 SILA ₃ ~a×GEŠTU~c5
P004333	IM 074311	 GA ₂ ~b×KU ₃ ~a
P004377	IM 134911	 KU ₆ ~a@s
P004382	IM 074325	 KISAL~a2
P004388	IM 134923	 NUNUZ~b2 ZATU761
P004414	history	IM 074344 sec2022  EZEN~a×EN~a ZATU699~a
P004431	history	W 21662,2 UVB24catalogue  DAR~d
P004452		IM 134954  GAN~c×NE~a
P004454		W 21736  ZATU644~a×1(N14)
P004464	history	W 21839,3 UVB25catalogue  GALGA~b GAN~c×ŠE~a
P004474	history	IM 134960 UVB25catalogue  GIR~d
P004502		IM 134967  ZATU759×KU ₆ ~d
P004612		IM 135007  GARA ₂ ~b
P005007		IM 025757,04  HI×1(N58)
P006024		MS 2356  KAB×1(N58)
P006027		MS 2359  GA ₂ ~a2×3(N57)
P006028		MS 2360  LAGAB~a×LAGAB~a NA~d
P006029		MS 2387  ZATU821  ZATU837~a
P006034		MS 2392  ZATU825

P006035	MS 2393	 UH ZATU826
P006040	MS 2427	 PIRIG~b1xUR ₂ ZATU821  ZATU823
P006041	MS 2428	 ZATU855
P006042	CDLI Lexical 000002, ex. 178	 RAD~a@t
P006046	CDLI Lexical 000002, ex. 194	 RAD~a@t
P006048	MS 2431	 ZATU697~c
P006053	MS 2436	 ZATU823
P006054	MS 2437	 ZATU826
P006056	MS 2439	 AB~a~SUKKAL  GI ₄ ~a&GI ₄ ~a NUNUZ~a1@t  ZATU825
P006057	MS 2440	 ZATU824  ZATU831
P006058	MS 2441	 ZATU821
P006061	MS 2444	 A~AB ₂  ZATU852  ZATU853
P006062	MS 2445	 ZATU820
P006065	MS 2498	 GA ₂ ~a1~EN~a
P006067	MS 2500	 AB~b~A  SAG~GE~TU~c  UR~a~KAR ₂ ~b  ZATU821
P006068	MS 2501	 ZATU831@g
P006070	CDLI Lexical 000023, ex. 095	 DUG~b~E~a  DUG~b~3(N57)
P006071	CDLI Lexical 000023, ex. 096	 DUG~b~(NI~a@g.ZATU779)  DUG~b~SUKUD~d  DUG~b~ZATU707~a

P006072	MS 2504	 ZATU821
P006077	MS 2509	 NUNUZ~a1@t
P006082	MS 2514	 ZATU737×E~a
P006083	MS 2515	 ZATU822
P006098	MS 2677	 A@t
P006105	MS 2684	 URU~a1@n  ZATU829
P006107	MS 2686	 MUŠEN×PAP~a
P006117	MS 2696	 ZATU821
P006120	MS 2727	 GA ₂ ~a1×EN~a
P006136	MS 2782/16	 LAGAB~a×SI
P006140	MS 2840	 SIG@g ZATU697~c
P006155	MS 2862/08	 ZATU839
P006160	MS 2862/13	 A×AB ₂
P006173	MS 2863/07	 E ₂ ~a×3(N58)
P006175	MS 2863/09	 ZATU838  ZATU839
P006190	MS 2863/24	 ZATU841
P006191	MS 2863/25	 ZATU837~a
P006196	MS 2863/30	 GA ₂ ~a1×EN~a
P006199	MS 2869/01	 KASKAL@g
P006203	MS 2869/05	 ZATU823
P006219	MS 2900/11	 LAGAB~a×SI
P006224	MS 2900/16	 ZATU839
P006236	MS 2900/28	 ZATU839
P006243	MS 2900/35	 LAGAB~a×BA
P006250	MS 2964	 ZATU837~a  ZATU837~b
P006251	MS 2965	 ZATU840
P006254	MS 2997	 ZATU841

P006255	MS 2998	 BU~a×1(N58)
P006262	MS 3008	 EN~e  TUR ₃ ~a@n
P006263	MS 3009	 ZATU842
P006270	MS 4162	 ZATU838
P006272	MS 3880	 ZATU839
P006275	CDLI Lexical 000002, ex. 187	 NESAG ₂ ~a2  ZATU737×I
P006278	MS 3886	 SUM~a@t  ZATU838
P006282	MS 4461	 ŠITĀ~a1×ŠU ₂
P006284	MS 4463	 AB~b×ŠA ₃ ~a1
P006288	MS 4485	 UR ₃ ~b1×MAŠ  ZATU844
P006289	MS 4486	 ZATU845  ZATU846
P006290	MS 4487	 (SUKUD+SUKUD)~d
P006291	MS 4488	 GA ₂ ~a1×NIM~b1  LAGAB~b×SUH ₃
P006292	MS 4489	 LAGAB~a×BIR ₃ ~b
P006293	MS 4490	 ZATU848
P006294	MS 4491	 LAGAB~a×KAK~a  ZATU856
P006296	MS 4493	 ZATU624~c
P006301	MS 4497	 URU~a1×GU ₄
P006307	MS 4503	 AB~b×KU ₆ ~a
P006308	MS 4504	 ZATU857
P006316	MS 4530	 DUB~b@r  KUR~d
P006317	MS 4537	 GIR ₃ ~c×KAR ₂ ~b
P006318	MS 4538	 ZATU683@t  ZATU849

P006319	MS 4539	 BU~a×GIŠ@t
P006323	MS 4543	 TA~d×MAŠ
P006324	MS 4551	 GUG ₂ ×ŠITA~a1  MAH~b×MAŠ
P006326	MS 4557	 GA ₂ ~a1×((SUKUD+SUKUD)~b)
P006438	AOST 109 unpublished assigned	 AB~a×SUKKAL
P200022	MS 2900/un1	 LAGAB~a×SI
P218054	CMAA 020-C0003	 ZATU843
P252177	MS 3166	 HI~b  ŠU ₂ ×3(N57)  UR ₃ ~d2
P252182	MS 3171	 GA ₂ ~b×NUN~b  LAGAB~b×(HI×1(N04))  ŠUR ₂ ~c
P252184	citation; history	CDLI Lexical 10012610EXTNS12 ; sec46325  AŠ ₂
P274471	MS 4588/1	 LAGAB~a×NI~a
P342517	MW 0188/020	 NIM~d
P342525	MW 0188/033	 ZATU659@t
P342526	MW 0188/034	 AB ₂ @g
P342533	MW 0188/041	 LAGAB~a×LA ₂ ~a  SIG~b
P342536	MW 0188/045	 UKKIN~d
P342547	MW 0188/056	 ZATU737@t×PAP~a
P448702	Anonymous 448702 unpublished unassigned	 SUKUD@h
P504412	Anonymous 504412 unpublished unassigned	 SILA ₃ ~d×NI~a
P512554	Anonymous 512554 unpublished unassigned	 KAB×1(N58)  ZATU853
P518361	Kress 301	 U ₄ ×(1(N14).3(N01))

E PC25 Not Encoded: Broken

This table gives signs which are not encoded because they only occur in instances which are incomplete.

PCSL	FONT	CDLI	ATU3	ATU5	MSVO1	MSVO4	CUSAS
AB~a×X o0980016	ZERO F2404						
AMAR@g CDL: AMAR@g 1× IV: 1p o0980057	PC25-bk F240B						
BU~a&BU~a.X 1× IV: 1p o0980124	PC25-bk F240F						
DU ₈ ~c×X o0980198	ZERO F2411						
DUG~b×(KUR~a.X) 1× III: 1p o0980243	PC25-bk F2415						
DUG~b×(SI ₄ ~a.X) 1× III: 1p o0980254	PC25-bk F2417						
DUG~b×X 128× IV: 3p/3u; III: 110p/14u o0980272	PC25-bk F20BC F20BB						
EZEN~a×X 2× IV: 1p; III: 1u o0980349	PC25-bk F241F						
GA~a×X o0980360	ZERO F24F7						
GA ₂ ~a2×X 1× III: 1p o0980410	PC25-bk F2428						
GA ₂ ~a3×X 1× IV: 1p; III: 1p o0980413	PC25-bk F2429						
GAN~c×X 3× IV: 1p; III: 2p/1u o0980447	PC25-bk F242E						
GI×X 1× IV: 1u o0980480	UNP F2432						
(GI&GI)×X o0980486	ZERO F2434						F2434
IRHAN 1× III: 1p o0980617 ZATU269	PC25-bk F243D						
LAGAB~a×X 3× IV: 1p; III: 2p o0980749	PC25-bk F2121 F2122						
MAH~a×X 7× IV: 5p; III: 6p/1u o0980823	PC25-bk F2454						

MAR~b×X		PC25-bk						
2× III: 2p	o0980837		F2457		F2457			
MUŠEN×X		ZERO						
	o0980875		F2458					F2458
NI~b×X		PC25-bk						
1× IV: 1p; III: 1p	o0980922		F245C		F245C			
NINDA ₂ ×(AN.X)		PC25-bk						
1× III: 1p	o0980938		F245D		F245D			
NINDA ₂ ×(HI.X)		PC25-bk						
1× III: 1p	o0980949		F245F					
NINDA ₂ ×(U ₄ .X)		UNP						
1× III: 1u	o0980957		F2460					
NINDA ₂ ×X		PC25-bk						
12× IV: 2p/1u; III: 4p/5u	o0980960		F2463					F2463
SILA ₃ ~a×X		PC25-bk						
17× IV: 7p/5u; III: 10p/2u	o0981125		F2470			F2470		
U ₄ ×X		PC25-bk						
2× III: 1p/1u	o0981350		F247F					
U ₄ ×(X+2(N01))		UNP						
1× III: 1u	o0981351		F2480					
U ₄ ×2(N01)		PC25-bk						
14× III: 13p/1u	o0981355		F2481				F2481	F2481
U ₄ ×N(N01)		UNP						
CDL: U ₄ ×(X(N01)) 1× III: 1u	o0981368		F2484					
UKKIN~b×X		PC25-bk						
1× III: 1p	o0981421		F2488					
URU~a1×X		PC25-bk						
2× IV: 1p; III: 2p	o0981471		F248C			F248C		
ZATU640		PC25-bk						
1× IV: 1p; III: 1p	o0981556	ZATU640	F2493			F2493		
ZATU650		PC25-bk						
1× IV: 1p	o0981567	ZATU650	F2495			F2495		
ZATU651×X		PC25-bk						
2× III: 2p	o0981575		F2496					
ZATU670		PC25-bk						
1× IV: 1p; III: 1p	o0981591	ZATU670	F2498			F2498		
ZATU704		PC25-bk						
3× IV: 2p; III: 1p	o0981645	ZATU704	F249C			F249C		
ZATU711×X		PC25-bk						
1× IV: 1p; III: 1p	o0981655		F249D			F249D		

ZATU714×X		PC25-bk						
2× IV: 1p; III: 1u	o0981660		F249E					
ZATU724		PC25-bk						
3× IV: 1p; III: 3p	o0981668	ZATU724	F249F		F249F		F249F	
ZATU733		UNP						
1× III: 1u	o0981678	ZATU733	F24A0					
ZATU737×X		PC25-bk						
14× III: 12p/2u	o0981704		F24A2		F24A2			
ZATU759×X		PC25-bk						
2× IV: 1p; III: 2p	o0981725		F24A4					
ZATU759@t×X		PC25-bk						
1× III: 1p	o0981726		F24A5					
ZATU768		PC25-bk						
1× IV: 1p	o0981736	ZATU768	F24A7			F24A7		
ZATU769		PC25-bk						
1× III: 1p	o0981737	ZATU769	F24A8			F24A8		
ZATU771		PC25-bk						
1× IV: 1p	o0981738	ZATU771	F24A9		F24A9			
ZATU785		PC25-bk						
1× III: 1p	o0981753	ZATU785	F24AB					
ZATU817		PC25-bk						
1× IV: 1p; III: 1p	o0981781	ZATU817	F24B0			F24B0		
ZATU818		PC25-bk						
1× IV: 1p; III: 1p	o0981782	ZATU818	F24B1			F24B1		

F PC25 Not Encoded: Uruk V not in Sub-corpus

This table gives signs excluded because they only occur in Uruk V.

PCSL	FONT	CDLI	ATU3	ATU5	MSVO1	MSVO4	CUSAS
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G PC25 Not Encoded: Uruk IV/III not in Sub-corpus

This table gives signs which do occur in Uruk IV and III but do not occur within the restricted PC25 corpus; this set is largely the same as that in Appendix B.

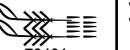
PCSL	FONT	CDLI	ATU3	ATU5	MSVO1	MSVO4	CUSAS
AxAB ₂ 3x III: 3u o0980001	UNP F2400						
A@t 1x III: 1u o0980008	UNP F2401						
AB~a×KU ₆ ~a o0980013 ZATU389	ZERO F2402						
AB~a×SUKKAL 3x III: 3u o0980014	UNP F2403						
AB~a×1(N01) o0980018	ZERO F2405						
AB~b×A 1x III: 1u o0980022 ZATU008	UNP F2406						
AB~b×KU ₆ ~a 1x III: 1u o0980023	UNP F2407						
AB~b×ŠA ₃ ~a1 1x III: 1u o0980024	UNP F2408						
AB ₂ @g 1x o0980027	UNP F2525						
ADDA@t o0980036	ZERO F2409						
ALAN~d 1x IV: 1u o0980044 ZATU025	UNP F240A						
AŠ ₂ 1x III: 1u o0980074	UNP F240C						
BAR×URI ₃ ~a o0980103	NOT F252C						F252C
BAR×UŠ~a o0980104	NOT F253D						F253D
((BU~a.DU ₆ ~a)&(BU~a.DU ₆ ~a))×UDU~a o0980116	ZERO F2523						F2523
BU~a+TU~b o0980119	ZERO F2526						F2526
BU~a×GiŠ@t 1x III: 1u o0980121	UNP F240D						
BU~a×1(N58) 1x III: 1u o0980122	UNP F240E						

DAR~d		UNP						
1x III: 1u	o0980150	ZATU069	F2410					
DU ₆ ~a@n		ZERO		F2539				
	o0980187							
DUB~b@r		UNP						
1x IV: 1u	o0980202		F252A					
DUG~a×KASKAL		UNP						
1x III: 1u	o0980214	ZATU103	F2412					
DUG~a×LAM~b		UNP						
1x III: 1u	o0980216	ZATU106	F2413					
DUG~b×E~a		UNP						
1x III: 1u	o0980231		F2414					
DUG~b×(NI~a@g.ZATU779)		UNP						
1x III: 1u	o0980250		F2416					
DUG~b×SUKUD~d		UNP						
1x III: 1u	o0980259	ZATU116	F252B					
DUG~b×ZATU707~a		UNP						
1x III: 1u	o0980273		F2418					
DUG~b×3(N57)		UNP						
1x III: 1u	o0980281		F2419					
E~d		UNP						
1x IV: 1u	o0980295	ZATU128	F241A					
E ₂ ~a×3(N58)		UNP						
1x III: 1u	o0980299		F241B					
EN~c&EN~c		UNP						
1x IV: 1u	o0980313		F241C					
EN~e		UNP						
1x	o0980314	ZATU134	F241D					
EZEN~a×EN~a		UNP						
1x IV: 1u	o0980335	ZATU151	F2420					
EZEN~a×SAG		UNP						
1x III: 1u	o0980345		F241E					
GA ₂ ~a1×EN~a		UNP						
4x III: 3u	o0980368		F2527					
GA ₂ ~a1×(HI.SUHUR)		UNP						
1x IV: 1u	o0980379	ZATU171	F2421					
GA ₂ ~a1×NAGA~a		UNP						
1x III: 1u	o0980385	ZATU177	F2422					
GA ₂ ~a1×NIM~b1		UNP						
AKA: GA ₂ ~a2×NIM~b1								
CDL: GA ₂ ~a2×NIM~b1								
1x III: 1u	o0980386		F2423					

 GA₂~a1×((SUKUD+SUKUD)~a) 	UNP							
AKA: GA ₂ ~a1×(SUKUD&SUKUD)~a								
CDLI: GA ₂ ~a1×((SUKUD&SUKUD)~a)								
1× IV: 1u	o0980393							
 GA₂~a1×((SUKUD+SUKUD)~b) 	UNP							
AKA: GA ₂ ~a1×(SUKUD&SUKUD)~b								
CDLI: GA ₂ ~a1×((SUKUD&SUKUD)~b)								
1× III: 1u	o0980394							
 GA₂~a2×NI~b 	UNP							
1× III: 1u	o0980406	ZATU178	F2427					
 GA₂~a2×3(N57) 	UNP							
1× III: 1u	o0980411		F2542					
 GA₂~b×KU₃~a 	UNP							
1× III: 1u	o0980418	ZATU172	F242A					
 GA₂~b×NUN~b 	UNP							
1×	o0980420		F252E					
GADA~b	UNP							
1× IV: 1u; III: 1p	o0980428	ZATU186	F242B					
GALGA~b	UNP							
3× III: 3u	o0980433	ZATU189	F242C					
 GAN~c×NE~a 	UNP							
3× III: 3u	o0980443	ZATU193	F242D					
 GAN~c×ŠE~a 	UNP							
4× III: 4u	o0980445	ZATU194	F242F					
 GAN~c×ŠE₃@t 	UNP							
1× III: 1u	o0980446		F2430					
GARA₂~b	UNP							
2× III: 2u	o0980460	ZATU199	F2431					
 (GI&GI)×ŠE₃ 	UNP							
CDLI: (GI+&GI)×ŠE ₃								
2× III: 2u	o0980485	ZATU206	F2433					
 GI₄~a&GI₄~a 	UNP							
1× III: 1u	o0980491		F2435					
GIBIL@t	UNP							
1× III: 1u	o0980496		F2436					
GIR~d	UNP							
1× IV: 1u	o0980505	ZATU216	F2437					
GIR₂~b	ZERO							
o0980507	ZATU218	F2438						
 GIR₃~c×KAR₂~b 	UNP							
AKA: GIR ₃ ~c×KAR ₂ ~b								
CDLI: GIR ₃ ~c×KAR ₂ ~b								
3× III: 3u	o0980512		F2439					
 GU₄×1(N58) 	ZERO							
CDLI: *GU ₄ +1N58			F2540					
o0982249								

GUG ₂ ×ŠITA~a1		UNP						
1× III: 1u	o0980554		F24FC					
GUG@t		ZERO						
	o0980556		F243A					
HI×ZATU707~a		UNP						
1× IV: 1u	o0980583	ZATU257	F243B					
HI×1(N58)		UNP						
1× IV: 1u	o0980588		F243C					
HI~b		UNP						
1×	o0980589	ZATU254	F252F					
KA ₂ ~c		UNP						
1× IV: 1u	o0980626	ZATU275	F243E					
KAB×1(N58)		UNP						
AKA: TUKU+DIŠ								
3× IV: 1u; III: 2u	o0980630	ZATU278	F243F					
KAD ₄ ~c1		UNP						
1× IV: 1u	o0980633	ZATU279	F2440					
KAD ₄ ~c2		UNP						
1× IV: 1u	o0980634	ZATU279	F2441					
KASKAL@g		UNP						
CDLI: KASKAL@g								
1× III: 1u	o0980654		F2442					
KAŠ~b@t		ZERO						
CDLI: KAŠ~b@t								
	o0980658		F2443					
KISAL~a2		UNP						
1× IV: 1u	o0980681	ZATU295	F2444					
KU ₆ ~a@s		UNP						
1× III: 1u	o0980703	ZATU446	F2445					
KUR~d		UNP						
1× IV: 1u	o0980713	ZATU304	F2446					
LA~c		UNP						
1× III: 1u	o0980723	ZATU306	F2447					
LAGAB~a×BA		UNP						
1× III: 1u	o0980728		F2448					
LAGAB~a×BIR ₃ ~b		UNP						
2× III: 2u	o0980729		F2449					
LAGAB~a×KAK~a		UNP						
1× III: 1u	o0980731		F244A					
LAGAB~a×LA ₂ ~a		UNP						
1×	o0980735		F2521					
LAGAB~a×LAGAB~a		UNP						
1× III: 1u	o0980736		F244B					
LAGAB~a×NI~a		UNP						
1× III: 1u	o0980738		F2520					

LAGAB~a×SI	UNP							
3× III: 3u	o0980741		F244C					
LAGAB~b×BANŠUR~a	UNP							
1× IV: 1u	o0980755	ZATU309	F244D					
LAGAB~b×GA'AR~a1	UNP							
1× IV: 1u	o0980756	ZATU311	F244E					
LAGAB~b×(HI×1(N04))	UNP							
AKA: LAGAB~b×(HI×N04)			F251F					
1× o0980758								
LAGAB~b×SUH ₃	UNP							
1× III: 1u	o0980762		F244F					
LAL ₂ ~a×EZEN~a	UNP							
1× IV: 1u	o0980781	ZATU326	F2450					
LAM~b@ _s	UNP							
1× IV: 1u	o0980791	ZATU329	F2451					
LU ₂ ×GEŠTU~c3	UNP							
1× III: 1u	o0980797	ZATU333	F2452					
MAGUR~b	UNP							
1× IV: 1u	o0980809	ZATU340	F2453					
MAH~b×KU ₆ ~a	UNP							
1× IV: 1u	o0980826	ZATU343	F2455					
MAH~b×MAŠ	UNP							
1× III: 1u	o0980827	ZATU344	F2456					
MUŠEN×PAP~a	UNP							
1× III: 1u	o0980874		F2506					
NA~d	UNP							
1× III: 1u	o0980883	ZATU378	F2459					
NESAG ₂ ~a2	UNP							
AKA: NISAG~a3			F2530					
1× III: 1u	o0980914	ZATU416						
NESAG ₂ ~b@t	UNP							
1× III: 1u	o0980916		F245A					
NI~a×1(N57)	ZERO							
	o0980919		F245B					
NIM~d	UNP							
1×	o0980931	ZATU398	F2531					
NINDA ₂ ~BA	UNP							
1× III: 1u	o0980939	ZATU402	F245E					
NINDA ₂ ~(UDU~a×TAR~a)	UNP							
AKA: NINDA ₂ ~((UDU~a×TAR)~a)			F2461					
CDLI: NINDA ₂ ~((UDU~a×TAR)~a)								
1× III: 1u	o0980958	ZATU410						
NINDA ₂ ~(UDU~a×TAR~b)	UNP							
AKA: NINDA ₂ ~((UDU~a+TAR)~b)			F2462					
1× III: 1u	o0980959	ZATU410						

NUMUN ₂		UNP						
2× III: 2u	o0980980	ZATU420	F2464					
NUNUZ~a1@t		UNP						
CDLI: NUNUZ~a1@t			F2465					
2× III: 2u	o0980994							
NNUUZ~b2		UNP						
1× III: 1u	o0980997	ZATU423	F2466					
PIRIG~b1×UR ₂		UNP						
2× III: 2u	o0981012		F2467					
PIRIG~b1×1(N58@t)		ZERO						
	o0981013		F2528					
RAD~a@t		UNP						
CDLI: RAD~a@t			F2468					
2× III: 2u	o0981019							
RU@t		ZERO						
CDLI: RU@t			F2469					
	o0981025							
SAG×GEŠTU~c		UNP						
1× III: 1u	o0981032	ZATU438	F246A					
SAG×1(N14)		UNP						
1× III: 1u	o0981037	ZATU440	F246B					
SIG~b		UNP						
2×	o0981074	ZATU451	F2532					
SIG@g		UNP						
1× III: 1u	o0981075		F246C					
SIG ₂ ~b×1(N14)		UNP						
3× IV: 3u	o0981081	ZATU453	F246D					
SILA ₃ ~a×GEŠTU~c5		UNP						
1× III: 1u	o0981102	ZATU462	F246E					
		ZATU469						
SILA ₃ ~a×HI@g~a		UNP						
2× IV: 2u	o0981105	ZATU465	F246F					
SILA ₃ ~a×1(N58)		UNP						
1× IV: 1u	o0981130	ZATU481	F2471					
SILA ₃ ~c		UNP						
1× III: 1u	o0981137	ZATU456	F2472					
SILA ₃ ~c×ŠU		UNP						
1× IV: 1u	o0981138	ZATU476	F2473					
SILA ₃ ~d×NI~a		UNP						
2× III: 2u	o0981140	ZATU460	F2474					
(SUKUD+SUKUD)~d		UNP						
3× III: 3u	o0981165	ZATU494	F2475					
SUKUD@h		UNP						
1× III: 1u	o0981170		F251C					
SUM~a@t		UNP						
CDLI: SUM~a@t			F2476					
1× III: 1u	o0981172							

ŠEN~d	ZERO	F219C F219D F219E	F219C F219D F219E				
o0981216 ZATU521							
ŠIDIM@t	UNP	F2477	F2477				
1x IV: 1u o0981224							
ŠITA~a1×ŠU ₂]	UNP	F2478	F2478				
1x III: 1u o0981232							
ŠITA~a1×UDU~a	UNP	F2479	F2479				
5x III: 5u o0981233							
ŠITA~a1×1(N06)	UNP	F247A	F247A				
3x III: 3u o0981234							
ŠITA@g~a×1(N04)	UNP	F247B	F247B				
1x III: 1u o0981244 ZATU531							
ŠU ₂ ×3(N57)	UNP	F251D	F251D				
AKA: ŠU ₂ ×3(N57)							
1x o0981265							
ŠUR ₂ ~c	UNP	F2533	F2533				
2x o0981272 ZATU543							
TA~d×MAŠ	UNP	F247C	F247C				
1x III: 1u o0981280							
TUG ₂ ~d	UNP	F247D	F247D				
1x IV: 1u o0981311 ZATU555							
TUR ₃ ~a@n	UNP	F247E	F247E				
CDL: TUR ₃ ~a@n							
1x o0981325							
U ₄ ×(1(N14).3(N01))	UNP	F253C	F253C				
1x III: 1u o0981373							
U ₄ ×2(N14)	ZERO	F2485	F2485		F2485		
o0981377							
UDU~b	UNP	F2486	F2486				
1x IV: 1u o0981405 ZATU575							
UH	UNP	F2487	F2487				
1x III: 1u o0981410							
UKKIN~d	UNP	F2534	F2534				
1x o0981426 ZATU580							
UR~a×KAR ₂ ~b	UNP	F2489	F2489				
AKA: UR~a×KAR ₂							
CDL: UR~a×KAR ₂							
1x III: 1u o0981438							
UR ₃ ~b1×MAŠ	UNP	F248A	F248A				
1x IV: 1u o0981449							
UR ₃ ~d2	UNP	F2535	F2535				
1x o0981451 ZATU591							

URU~a1xGU ₄		UNP						
1× III: 1u	o0981466							
URU~a1@n		UNP						
CDLI: URU~a1@n								
1× III: 1u	o0981475							
URUDU@g~b		UNP						
1× IV: 1u	o0981486	ZATU603						
ZUBI~b		UNP				(a)		
1× III: 1u	o0981525	ZATU619				(a)		
ZATU624~c		UNP						
1× III: 1u	o0981535	ZATU624						
ZATU627		UNP						
1× IV: 1u	o0981540	ZATU627						
ZATU632~c		UNP						
1× IV: 1u	o0981548	ZATU632						
ZATU634		UNP						
1× IV: 1u	o0981551	ZATU634						
 ZATU644~a×1(N14) 		UNP						
1× IV: 1u	o0981561	ZATU645						
 ZATU651×ŠE~a 		UNP						
1× III: 1u	o0981574	ZATU657						
ZATU659@t		UNP						
1×	o0981582							
ZATU683@t		UNP						
CDLI: ZATU683@t								
1× III: 1u	o0981613							
ZATU694~e		ZERO						
	o0981633	ZATU694						
ZATU697~c		UNP						
2× III: 2u	o0981638	ZATU697						
ZATU699~a		UNP						
1× IV: 1u	o0981639	ZATU699						
 ZATU737×E~a 		UNP						
1× III: 1u	o0981690							
 ZATU737×I 		UNP						
1× III: 1u	o0981694							
 ZATU737@t×PAP~a 		UNP						
1×	o0981705							
 ZATU759×KU₆~d 		UNP						
1× IV: 1u; III: 1p	o0981724	ZATU760						
ZATU761		UNP						
1× III: 1u	o0981727	ZATU761						

ZATU779		ZERO							
	o0981747	ZATU779	F24AA						
ZATU789		ZERO							
	o0981757	ZATU789	F24AC						
ZATU805		UNP							
2x III: 2u	o0981770	ZATU805	F24AD						
ZATU814		UNP							
1x III: 1u	o0981779	ZATU814	F24AE						
ZATU815		UNP							
1x III: 1u	o0981780	ZATU815	F24AF						
ZATU820		UNP							
1x III: 1u	o0981784	ZATU820	F24B2						
ZATU821		UNP							
7x III: 7u	o0981785	ZATU821	F24B3						
ZATU822		UNP							
1x III: 1u	o0981786	ZATU822	F24B4						
ZATU823		UNP							
3x III: 3u	o0981787	ZATU823	F24B5						
ZATU824		UNP							
2x III: 2u	o0981788	ZATU824	F24B6						
ZATU825		UNP							
2x III: 2u	o0981789	ZATU825	F24B7						
ZATU826		UNP							
2x III: 2u	o0981790	ZATU826	F24B8						
ZATU829		UNP							
1x III: 1u	o0981791	ZATU829	F24B9						
ZATU831		UNP							
2x III: 2u	o0981792	ZATU831	F24BA						
ZATU831@g	CDL: ZATU831@g	UNP							
2x III: 2u	o0981793	ZATU831	F24BB						
ZATU837~a		UNP							
3x III: 3u	o0981799	ZATU837	F24BC						
ZATU837~b		UNP							
1x III: 1u	o0981800	ZATU837	F24BD						
ZATU838		UNP							
3x III: 3u	o0981801	ZATU838	F24BE						
ZATU839		UNP							
6x III: 6u	o0981802	ZATU839	1 F221A						
ZATU840		UNP							
1x III: 1u	o0981803	ZATU840	F24BF						

ZATU841		UNP							
2x III: 2u	o0981804	ZATU841	F24C0						
ZATU842		UNP							
1x	o0981805	ZATU842	F24C1						
ZATU843		UNP							
1x III: 1u	o0981806	ZATU843	F24C2						
ZATU844		UNP							
1x IV: 1u	o0981807	ZATU844	F24C3						
ZATU845		UNP							
1x III: 1u	o0981808	ZATU845	F24C4						
ZATU846		UNP							
1x III: 1u	o0981809	ZATU846	F24C5						
ZATU848		UNP							
1x III: 1u	o0981811	ZATU848	F24C6						
ZATU849		UNP							
2x III: 2u	o0981812	ZATU849	F24C7						
ZATU852		UNP							
1x III: 1u	o0981815	ZATU852	F24C8						
ZATU853		UNP							
3x III: 3u	o0981816	ZATU853	F24C9						
ZATU855		UNP							
1x III: 1u	o0981818	ZATU855	F24CA						
ZATU856		UNP							
1x III: 1u	o0981819	ZATU856	F2522						
ZATU857		UNP							
1x III: 1u	o0981820	ZATU857	F2524						

H PC25 Not Encoded: ED I-II not in Sub-corpus

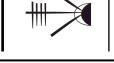
This table gives signs excluded because they only occur in ED I-II

PCSL	FONT	CDLI	ATU3	ATU5	MSV01	MSV04	CUSAS
A×AN o0980002	EDI F24F2	{*}	{*}				
A@g o0980007	EDI F24CC						
ALAN~f o0980046	EDI F24CD	====	====				
ANZU ₂ o0980064	EDI F222C	* ㅗ(ㅌ)	* ㅗ(ㅌ)				
ASAL ₂ o0980072	EDI F24CE	~~~~~→	~~~~~→				
BAU405 CDLI: UET ₂ .405 o0980108	EDI F24EF	魚	魚				
DAG o0980142	EDI F24CF	▤	▤				
DIM~a×GU o0980175	EDI F24F3	▽△	▽△				
DIM~a×X o0980176	EDI F24F4	▽△	▽△				
DUG~a×HI o0980213	EDI F24F5	□○	□○				
DUG~a×X o0980220	EDI F24F6	□○	□○				
E~e o0980296	EDI F24D0	☰	☰				
ENSI o0980324	EDI F224E	☱	☱				
ENSI ₂ o0980325	EDI F2257	☱	☱				
EZEN~a×LA~e o0980341	EDI F20CF F20CE	□○	□○				
GA ₂ ~a1×GU ₄ o0980376	EDI F24F8	□○	□○				
GA ₂ ~a1×NUN~a o0980387	EDI F24F9	▤	▤				

GA ₂ ~a1×X 14× IV: 4p; III: 12p/1u	o0980399	PC25-bk	 1	 	 	 			
GAN-d	o0980450	EDI							
GAN~d×HI	o0980452	EDI							
GEŠTIN~c	o0980463	EDI							
GEŠTIN~c×X	o0980464	EDI							
GIG	o0980498	EDI							
GIL	o0980499	EDI							
GIR ₄	o0980517	EDI							
GIŠ~v CDLI: GIŠ~x	o0980527	EDI							
GIŠ@t.E ₂ ~a	o0980529	EDI							
HI×ŠE ₃ @t	o0980582	EDI							
HI×1(N01@f) CDLI: HI×1(N01)F	o0980584	EDI							
HUB ₂	o0980593	EDI							
IGI	o0980602	EDI							
IM-a@g	o0980607	EDI							
KA ₂ ~d	o0980627	EDI							
KEŠ ₂	o0980661	EDI							
KU~a@t	o0980694	EDI							
KUN	o0980706	EDI							
LA~e	o0980725	EDI							

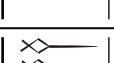
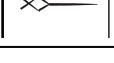
LAGAB~b×SI	EDI						
o0980761		F2501					
LAGAB~b×ŠITA~c	EDI						
o0980763		F2500					
LAGAB~b×X	EDI						
1×		F2502					
LAGAB~b×1(N01)	EDI						
o0980766		F24FF					
LAK025	EDI						
o0980774		F24DF					
LAK050	EDI						
o0980775		F24E0					
LAK172	EDI						
o0980776		F24E1					
LAK251	EDI						
o0980777		F24E2					
LAK350	EDI						
o0980778		F24E3					
LAK777	EDI						
o0980779		F24E4					
LAL ₃ ~c	EDI						
o0980787		F24E5					
LAM~c	EDI						
o0980793		F24E6					
LU ₂ @t	EDI						
o0980798		F24E7					
MA×X	EDI						
o0980804		F2504					
MA×2(N57)	EDI						
o0980805		F2503					
MUD ₃ ~a@gxGUI	EDI						
o0980853		F2505					
NINDA ₂ ×(GIŠ.DAR~a)	EDI						
o0980944		F2508					
NINDA ₂ ×NE~a	EDI						
o0980953		F2509					
NINDA ₂ ×ŠIM~a	EDI						
o0980955		F250A					
NINDA ₂ ×(X.MAŠ)	EDI						
o0980961		F250B					
NINDA ₂ ×1(N06)	EDI						
o0980966		F2507					

PA ₃	EDI						
o0981001							
RI	EDI						
o0981021							
SAG×LAM~c	EDI						
o0981033							
SAG×SAR~a	EDI						
o0981036							
SIKIL	EDI						
o0981092							
SILA ₃ ~a×DUG~b	EDI						
o0981097							
SILA ₃ ~b×DUG~a	EDI						
o0981132							
(SUKUD+SUKUD)~c	EDI				(o)		
o0981164							
ŠITĀ~c	EDI						
o0981242							
ŠU@s	EDI						
o0981251							
ŠU ₂ .2(N57)	EDI						
o0981264							
ŠURUPPAK~c	EDI						
o0981275							
TA~f	EDI						
o0981282							
TAR~d	EDI						
o0981295							
TUR×X	EDI						
o0981321							
TUR ₃ ~b×TAK ₄ ~a	EDI						
o0981327							
U ₄ ×1(N01@f)	EDI						
CDLI: U ₄ ×1(N01)F							
o0981369							
UKKIN~b×DUG~a	EDI						
o0981418							
URI ₂	EDI						
o0981458							
URI ₃ ~a×IB~a	EDI						
o0981460							
URU~a1×A	EDI						
o0981464							

UŠ-b×TAR~d	EDI o0981493	 F2516					
UŠUR ₃ ~a	EDI o0981496	 F24F0		 (b1) F24F0			
ZADIM	EDI o0981512	 F24F1					
(ZU&ZU).SAR~a	EDI o0981523	 F2518					
ZATU737×ŠITA~b1@g CDLI: ZATU737×ŠITA@g~a o0981701 ZATU746	EDI	 F2517					

I PC25 Not Encoded: Delete

This table gives signs which occur in CDLI-gh but have been deleted from the CDLI-tc.

PCSL		FONT	CDLI	ATU3	ATU5	MSVO1	MSVO4	CUSAS
(BU~a&BU~a).NA ₂ ~b	DEL o0982241 ZATU058	 F209B						
EZEN~c	DEL o0982242 ZATU150	 F24D1						
NINDA ₂ ×GUDU ₄	DEL o0982243 ZATU406	 1 F2156  2 F2155  1 F2154  3 F2153	   					
RI~x	DEL o0982244	 F24EA						

J PC25 Not Encoded: Number (non-ACN)

This table gives numbers which are neither in Archaic Cuneiform Numbers or in PC25. Some of these may be candidates for future encoding. The abbreviation 'OOR' indicates numbers which are Out Of Range with regard to their respective system. 'OOR5' indicates an Out Of Range number occurring in Uruk V texts. The tag 'Pelm' indicates numbers which are likely to be encoded as Proto-Elamite.

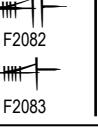
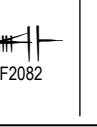
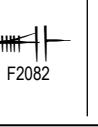
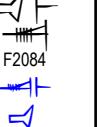
PCSL	FONT	CDLI	ATU3	ATU5	MSVO1	MSVO4	CUSAS
5(LAGAB~a) o0981826	NUM F2543	○○ ○○					
10(N01) 2× III: 2p o0981837	PC25 F00DA	BBB BBB					
1(N08~b) 1× III: 1u o0981901	NUM F00F5	# #	̄ ̄				
2(N08~b) 4× III: 1p/3u o0981902	PC25 F00F6	# #	̄ ̄				
3(N08~b) 1× III: 1u o0981903	NUM F00F7	# #	̄ ̄				
4(N08~b) 1× III: 1u o0981904	NUM F00F8	# #	̄ ̄				
4(N08~c) 1× III: 1u o0981905	NUM F00F9	# #	̄ ̄				
1(N08~v) 1× III: 1u o0982197	NUM F00FA	̄ ̄					
1(N08@f)×1(N57) o0981908	NUM F012C	̄ ̄					
10(N14) 2× o0981921	PC25 F00DB	●●●● ●●●●	●●●● ●●●●				
11(N14) 1× o0981922	PC25 F00DC	●●●● ●●●●					
12(N14) 1× o0981923	OOR5 F00DD	●●●● ●●●●	●●●● ●●●●				
22(N14) 1× o0981924	PC25 F00DE	●●●● ●●●●					
10(N14@f) o0981934	OOR F00DF	■■■■■ ■■■■■	■■■■■ ■■■■■				
6(N21) 1× IV: 1p o0981983	PC25 F00EO	●●●● ●●●●	●●●● ●●●●				
1(N22~v) 1× III: 1p o0981986	PC25 F00FD	̄ ̄					
1(N23) 2× III: 1p/1u o0981989	Pelm F00FE	̄ ̄	̄ ̄				
2(N23) 1× III: 1p o0981990	Pelm F00FF	̄ ̄	̄ ̄				

3(N23)	Pelm						
1× III: 1p	o0981991	F0100					
5(N23)	Pelm						
1× IV: 1p	o0981992	F0101					
7(N23)	Pelm						
1× III: 1p	o0981993	F0102					
2(N24)	NUM						
	o0981995	F0103					
4(N24)	NUM						
	o0981996	F0104					
6(N24)	NUM						
1× IV: 1u; III: 1p	o0981997	F0105					
1(N24@f)	PC25						
2× III: 2p	o0981998	F0106					
2(N29A)	PC25						
AKA: 2(N29~a) 4× III: 4p	o0982009	F0107					
2(N29AB)	PC25						
AKA: 2(N29A~b) 2× III: 2p	o0982011	F010A					
1(N30B)	PC25						
AKA: 1(N30~b) 2× III: 2p	o0982016	F010B					
1(N30CA)	PC25						
AKA: 1(N30C~a) 1(N30C~a) 1× III: 1p	o0982018	F2537					
1(N30CB)	NUM						
	o0982019	F010C					
1(N34)×1(N58)	PC25						
1× III: 1p	o0982027	F012D					
1(N43)	PC25						
3× III: 2p/1u	o0982088	F010D					
4(N43)	PC25						
1× III: 1p	o0982089	F010E					
1(N44)	PC25						
1× IV: 1p	o0982090	F00E1					
3(N45@f)	OOR						
	o0982102	F00E2					
4(N45@f)	OOR						
	o0982103	F00E3					
5(N45@f)	OOR						
	o0982104	F00E4					
6(N45@f)	OOR						
	o0982105	F00E5					

7(N45@f)	OOR							
	o0982106	F00E6						
8(N45@f)	OOR							
	o0982107	F00E7						
9(N45@f)	OOR							
	o0982108	F00E8						
3(N46)	PC25							
1× III: 1p	o0982112	F00E9						
3(N47)	OOR							
1× IV: 1u	o0982117	F00EA						
6(N48)	OOR							
2× IV: 2u	o0982123	F00EB						
7(N48)	OOR							
1× IV: 1u	o0982124	F00EC						
1(N48@f)	NUM							
	o0982125	F010F						
5(N49)	OOR							
	o0982130	F00ED						
3(N53)	PC25							
1× IV: 1p	o0982163	F00EE						
1(N55)	PC25							
1× IV: 1p	o0982169	F00EF						
1(N59)	PC25							
1× III: 1p	o0982192	F0124						
2(N59)	PC25							
1× III: 1p	o0982193	F0125						
3(N59)	PC25							
18× III: 11p/7u	o0982194	F0126						
4(N59)	PC25							
3× III: 2p/1u	o0982195	F0127						
6(N59)	PC25							
3× III: 3p	o0982196	F0128						
7(N59)	PC25							
1× III: 1p	o0981906	F2536						
3(N61)	PC25							
1× III: 1p	o0982199	F0129						
4(N62)	PC25							
1× III: 1p	o0982200	F012A						
1(N63)	NUM							
2× III: 2u	o0982201	F012B						

K PC25 Not Encoded: Sequence

This table gives sequences which are not encoded.

PCSL	FONT	CDLI	ATU3	ATU5	MSV01	MSV04	CUSAS
ABGAL 51x III: 42p/9u o0980028 ZATU015	PC25-sq	 F2082  F2083 1	 F2082		 F2082		
ABRIG 2x III: 2p o0980029 ZATU016	PC25-sq	 F2084  F2085 1	 F2085				
 AMAR.1(N02) 2x III: 2p o0980054	PC25-sq	 F222B			 F222B		
 APIN~a.APIN~a 1x IV: 1p o0980066	PC25-sq	 F222D					
ARARMA₂~b 2x IV: 1p; III: 1p o0980070 ZATU034	PC25-sq	 F2274		 F2274			
ARATTA 1x III: 1p o0980071 ZATU035	PC25-sq	 F22A1					
 BU~b.NA₂~a 1x III: 1u o0980127	UNP	 F222E					
 BULUG₃.DU₆~a o0980131	ZERO	 F222F					 F222F
 DA~a.LIŠ 1x III: 1u o0980138	UNP	 F2230					
 E₂~a.LIŠ 1x III: 1u o0980298	UNP	 F2232					
 E₂~b.LIŠ 1x III: 1u o0980302	UNP	 F2234					
E₃~a 2x IV: 1u; III: 1p/1u o0980306 ZATU132	UNP	 F2231					
 EN₂.E₂~a 4x III: 1p/3u o0980318	PC25-sq	 F2237					
 EN₂.E₂~b AKA: EN ₂ ~b.E ₂ ~b 21x III: 7p/14u o0980319	PC25-sq	 F2238			 F2238		
ENDIB 6x III: 6p o0980320 ZATU139	PC25-sq	 F2236	 F2236				

ENGIZ	PC25-sq	 F20C8 1 F20C9 2 F20CA	 F20C8	 F20C8	 F20C8	 F20C8
21x III: 20p/1u	o0980321	ZATU140				
ENKUM	PC25-sq	 F20CB 1 F20CC	 F20CB			
13x III: 9p/4u	o0980322	ZATU141				
ENLIL	ZERO	 F2235	 F2235			
	o0980323	ZATU142				
ERIM ₂	PC25-sq	 F2255	 F2255			 F2255
22x III: 18p/4u	o0980329	ZATU144				
GA~a.ZATU753	PC25-sq	 F20D1 1 F20D2	 F20D1			 F20D2
85x IV: 1u; III: 63p/21u	o0980359	ZATU161				
GIBIL ₆	PC25-sq	 F20E4 1 F20E5	 F20E4	 F20E5		
2x III: 2p	o0980497	ZATU215				
GIR~a.KU ₆ ~a	PC25-sq	 F223E	 F223E			
1x III: 1p	o0980501					
GIR~b.GIR~b	PC25-sq	 F223F	 F223F	 F223F		
4x III: 4p	o0980503					
GIŠ.TE	PC25-sq	 F2242	 F2242		 F2242	 F2242
27x III: 24p/3u	o0980521	ZATU226				
GIZZAL~v	UNP	 F223C	 F223C			
CDLI: GIZZAL~x						
1x III: 1u	o0980540	ZATU231				
GU ₄ .ZATU755~b	PC25-sq	 F2244	 F2244	 F2244		
AKA: GU ₄ .ZATU755~a						
CDLI: GU ₄ .ZATU755~a						
1x IV: 1p; III: 1p	o0980544					
GUUKKAL~a.HI@g~a	PC25-sq	 F2245	 F2245	 F2245		
2x IV: 2p; III: 2p	o0980558	ZATU241				
HI.SUHUR	PC25-sq	 1 F20F6 2 F20F7 F20F5	 F20F6	 F20F7	 F20F5	
7x IV: 2u; III: 2p/3u	o0980580	ZATU256				

HI×LAGAB~a	PC25-sq						
3× III: 3p	o0980581						
(HI×1(N57)).(HI×1(N57))	PC25-sq						
CDL: (HI×1(N57))&(HI+1(N57))							
1× III: 1p	o0980586						
ILDUM~a	PC25-sq						
1× IV: 1p	o0980604	ZATU263					
ILDUM~b	PC25-sq						
4× III: 4p	o0980605	ZATU263					
IR~a.GA ₂ ~a1	PC25-sq						
1× III: 1p	o0980612						
IR ₁₁	PC25-sq						
9× III: 5p/4u	o0980616	ZATU268					
KA~a.ŠE~a	PC25-sq						
1× III: 1p	o0980622	ZATU274					
KAK~a.GA ₂ ~a1	PC25-sq						
3× III: 3p	o0980636						
KAR	PC25-sq						
7× IV: 2u; III: 5p/1u	o0980650	ZATU283					
KINGAL	PC25-sq						
44× IV: 3p; III: 33p/10u	o0980678	ZATU294					
KIR ₁₁	PC25-sq						
22× III: 7p/15u	o0980679						
KU ₆ ~a.1(N02)	PC25-sq						
3× III: 3p	o0980700						
KU ₆ ~a+GIŠ	ZERO						
	o0980701						
KUR~a.E ₂ ~a	PC25-sq						
13× III: 11p/2u	o0980708	ZATU130					
KUR~a.NUNUZ~a1	ZERO						
	o0980709						
KUR~b.E ₂ ~a	UNP						
1× IV: 1u; III: 1p	o0980711	ZATU130					
LAGAB~b.TE	PC25-sq						
10× IV: 1p; III: 9p	o0980754						

LAHTAN ₂	PC25-sq	F2266	F2266			
9× III: 7p/2u	o0980773 ZATU324					
LI	PC25-sq	F2126 F2127		F2126		
7× III: 7p	o0980794 ZATU330	1				
LUGAL	PC25-sq	F212B F212A				
13× IV: 1u; III: 8p/4u	o0980799 ZATU334					
MURUB ₂	PC25-sq	F2259				
5× III: 3p/2u	o0980866 ZATU371					
MUŠEN.UR ₃ -b2	PC25-sq	F213A F213B				
2× IV: 1p/1u	o0980872 ZATU377	1				
MUŠEN.3(N58)	UNP	12924				
1× III: 1u	o0980873					
1(N02).RU	PC25-sq	125BE				
1× III: 1p	o0980876					
NAMEŠDA	PC25-sq	F2145 F2144		F2145	F2145	F2145
87× IV: 2p/1u; III: 69p/18u	o0980902 ZATU387	1				
NANNA~a	PC25-sq	F2146 F2147 F2148			F2148 (o)	
11× III: 6p/5u	o0980903 ZATU388	1				
NANNA~b	PC25-sq	F2265				
2× III: 2p	o0980904 ZATU388					
NERGAL~v	PC25-sq	F2240		F2240		
CDLI: NERGAL~x						
1× III: 1p	o0980912 ZATU392					
NI-a.RU	PC25-sq	F2256			F2256	
78× III: 78p	o0980918					
NIN	PC25-sq	F225B		F225B	F225B	F225B
107× IV: 1p/1u; III: 68p/37u	o0980933 ZATU400	1				
NINKUM	PC25-sq	F225C		F225C		
10× III: 10p	o0980969 ZATU412					
NINLIL	PC25-sq	F2233		F2233		
4× III: 4p	o0980970 ZATU413					

NUN~b.U ₄		PC25-sq						
1x III: 1p	o0980988		12978					
SAL.KUR~a		PC25-sq						
50x IV: 3p/1u; III: 35p/12u	o0981042	ZATU201	F2258		F2258	F2258	F2258	
SAL.LAM~b		UNP						
2x III: 2u	o0981043		F225A					
SAL.ME~a		PC25-sq						
AKA: LUKUR 1x III: 1p	o0981044		129A1					
SAL.ŠU ₂		PC25-sq						
2x III: 2p	o0981045		F225F				F225F	
SAL.ZATU751~a		PC25-sq						
CDLI: *SAL.ZATU751~a 1x III: 1p	o0981046		F2260				F2260	
SAL.ZATU751~b		ZERO						
CDLI: *SAL+ZATU751~b	o0981047		F2261				F2261	
SAL.ZATU751~c		PC25-sq						
CDLI: *SAL+ZATU751~c 1x III: 1p	o0981048		F2262					F2262
SIPA		PC25-sq						
6x III: 6p	o0981147		F2178		F2179			
1 F2179								
SUSA		PC25-sq						
1x III: 1p	o0981176	ZATU499	F2250		F2250			
ŠAB~a		PC25-sq						
1 F2189								
79x IV: 5p/1u; III: 66p/10u	o0981187	ZATU504	F2188		F218A	F2189	F218A	
2 F218A								
ŠAB~b		PC25-sq						
9x III: 9p	o0981188	ZATU504	1 F218C					
			F218B					
ŠANDANA~a		PC25-sq						
2x III: 2p	o0981198		F223B					
ŠANDANA~b		UNP						
1x III: 1u	o0981199		F223A					
ŠE~a.GAR		PC25-sq						
2x III: 2p	o0981201		F2228					F2228
1 F2229								
ŠE~a.KIN ₂ ~c		PC25-sq						
5x III: 5p	o0981202	ZATU512	F2190		F2191			
1 F2191								

ŠE~a.NAM ₂	PC25-sq				
AKA: ŠE~a×NAM ₂ ŠE~a×NAM ₂					
109× IV: 10p; III: 64p/39u	o0981203 ZATU513	1 			
ŠELU	PC25-sq				
32× IV: 25p; III: 6p/1u	o0981211 ZATU520				
ŠU ₂ .AN	UNP				
AKA: ŠU ₂ +AN ŠU ₂ .AN ŠU ₂ ×AN					
4× III: 2u	o0981253				
ŠU ₂ .E ₂ ~a	PC25-sq				
9× III: 8p/1u	o0981254 ZATU535				
ŠU ₂ .E ₂ ~b	PC25-sq				
13× III: 10p/3u	o0981255 ZATU535				
ŠU ₂ .EN~a	PC25-sq	 			
40× IV: 9p/3u; III: 27p/4u	o0981256 ZATU536	1 2 			
ŠU ₂ .EN~b	UNP				
2× IV: 2u	o0981257 ZATU536				
ŠU ₂ .GIŠ	ZERO				
	o0981258				
ŠU ₂ .((HI×1(N57))&(HI×1(N57)))	PC25-sq				
AKA: ŠU ₂ .((HI+1(N57))+(HI+1(N57)))					
CDLI: ŠU ₂ .((HI+1(N57))+(HI+1(N57)))					
1× III: 1p	o0981259				
ŠU ₂ .PAP~a	PC25-sq				
1× III: 1p	o0981260				
ŠU ₂ .URI ₃ ~a	PC25-sq				
1× III: 1p	o0981261				
ŠU ₂ .1(N02)	UNP				
2× IV: 1u; III: 1p/1u	o0981262				
ŠU ₂ .1(N24)	PC25-sq				
AKA: ŠU ₂ ×1(N24)					
1× III: 1p	o0981263				
ŠURUPPAK~a	PC25-sq				
48× IV: 3u; III: 37p/10u	o0981273 ZATU544	1 			
ŠURUPPAK~b	PC25-sq				
10× IV: 1u; III: 8p/2u	o0981274 ZATU544				

TIDNUM		PC25-sq						
1× III: 1p	o0981301	ZATU552	F2241					
TUG ₂ ~a.BAD&BAD		PC25-sq						
CDL: TUG ₂ ~a.(BAD&BAD)								
35× IV: 1p/2u; III: 23p/10u	o0981307	ZATU556 ZATU558	1 F21B9					
TUR ₃ ~a.5(N57)		PC25-sq						
1× III: 1p	o0981324							
U ₄ .ŠU ₂		PC25-sq						
11× IV: 2p; III: 9p/2u	o0981333	ZATU568	F2275					
U ₄ .1(N08)		PC25-sq						
48× III: 32p/16u	o0981334		F2276					
U ₄ .2(N08)		PC25-sq						
12× IV: 1p; III: 11p	o0981335		F2277					
U ₄ .3(N08)		PC25-sq						
10× III: 8p/2u	o0981336		F2278					
U ₄ .4(N08)		PC25-sq						
2× III: 2p	o0981337		F2279					
U ₄ .5(N08)		PC25-sq						
6× III: 5p/1u	o0981338		F227A					
U ₄ .6(N08)		PC25-sq						
4× III: 4p	o0981339		F227B					
U ₄ .7(N08)		PC25-sq						
2× III: 1p/1u	o0981340		F227C					
U ₄ .8(N08)		PC25-sq						
1× III: 1p	o0981341		F227D					
U ₄ .1(N14)		PC25-sq						
1× III: 1p	o0981342		F227E					
U ₄ .1(N14).1(N08)		PC25-sq						
AKA: (U ₄ +1(N14)).1(N08)								
1× III: 1p	o0981343							
U ₄ .1(N14).3(N08)		PC25-sq						
CDL: U ₄ .(1(N14).3(N08))								
2× III: 2p	o0981344							
U ₄ .1(N14).4(N08)		PC25-sq						
CDL: U ₄ .(1(N14).4(N08))								
1× III: 1p	o0981345							
U ₄ .1(N14).5(N08)		PC25-sq						
CDL: U ₄ .(1(N14).5(N08))								
4× III: 2p/2u	o0981346							
U ₄ .1(N14).8(N08)		PC25-sq						
CDL: U ₄ .(1(N14).8(N08))								
1× III: 1p	o0981347							
U ₄ .2(N14)		PC25-sq						
2× III: 2p	o0981348							

U ₄ .1(N24)	PC25-sq								
3× III: 3p o0981349		F2284							F2284
U ₄ .x1(N01).5(N08)	PC25-sq								
2× III: 1p/1u o0981353		F2285						F2285	
U ₄ .x2(N01).X	PC25-sq								
1× III: 1p o0981356		F2482							
U ₄ .x2(N01).2(N14)	PC25-sq								
1× III: 1p o0981357		F2286							
U ₄ .x2(N01).2(N14).1(N08)	PC25-sq								
CDL: U ₄ .x2(N01).(2(N14).1(N08)) 1× III: 1p o0981358		F2287						F2287	
U ₄ .x3(N01).3(N08)	UNP								
1× III: 1u o0981360		F2288							
U ₄ .x4(N01).2(N14)	UNP								
1× III: 1u o0981362		F2289							
U ₄ .x5(N01).1(N14)	PC25-sq								
1× III: 1p o0981364		F228A							
U ₄ .x8(N01).X	PC25-sq								
1× III: 1p o0981367		F2483							
U ₄ .x(1(N14).3(N01)).1(N14).4(N08)	UNP								
AKA: U ₄ .x(1(N14).3(N01)).(1(N14).4(N08)) 1× III: 1u o0981374		F253C							
URI ₃ -b	PC25-sq								
1× IV: 1p o0981461 ZATU595		F228C							
URU~a1x1(N57)	PC25-sq								
1× IV: 1p o0981472 ZATU601		F22B0							
URU~a1x2(N57)	UNP								
1× IV: 1u o0981473 ZATU601		F22B1							
UŠUMGAL	PC25-sq								
5× III: 3p/2u o0981495 ZATU607		F2239							
UZ-a	PC25-sq								
6× III: 1p/2u o0981506 ZATU611		F21D6		F21D6	F21D7				
X ₂	PC25-sq								
AKA: 2(N57).DU ₆ -a@n 1× III: 1p o0981508		12BED							
ZABALAM-a	PC25-sq								
AKA: ZABALA-a 48× III: 31p/17u o0981510 ZATU613		F224F		F224F					
ZABALAM-b	UNP								
1× III: 1u o0981511 ZATU613		F2251							
ZATU714.RU	PC25-sq								
1× IV: 1p; III: 1p o0981658 ZATU716		F228F			F228F				

1(N57).AB ₂		UNP						
1× III: 1u	o0982202	PC25-sq						
2(N57).AB ₂		PC25-sq						
1× IV: 1p; III: 1p	o0982203	ZATU014						
3(N57).AMAR		PC25-sq						
2× III: 1p/1u	o0982204	PC25-sq						
4(N57).AMAR		PC25-sq						
1× III: 1p	o0982205	PC25-sq						
3(N57).AZ		PC25-sq						
3× III: 3p	o0982206							
3(N57).BARxUŠ~a		ZERO						
	o0982207							
3(N57).BARA ₃		UNP						
1× III: 1u	o0982208	PC25-sq						
2(N57).BIR ₃ ~a		PC25-sq						
1× III: 1p	o0982209	PC25-sq						
1(N57).BU ₃		PC25-sq						
1× III: 1p	o0982210	PC25-sq						
1(N57).E ₂ ~a		ZERO						
	o0982211							
3(N57).E ₂ ~b		UNP						
1× III: 1u	o0982212	PC25-sq						
3(N57).EN ₂		PC25-sq						
6× III: 6p	o0982213	PC25-sq						
X(N57).GAR		PC25-sq						
AKA: N(N57).GAR								
CDL: x(N57).GAR								
1× III: 1p	o0982214	PC25-sq						
3(N57).GAR		PC25-sq						
2× III: 2p	o0982215	PC25-sq						
4(N57).GAR		PC25-sq						
5× III: 5p	o0982216	PC25-sq						
5(N57).GAR		PC25-sq						
8× III: 8p	o0982217	PC25-sq						
6(N57).GAR		PC25-sq						
4× III: 3p/1u	o0982218	PC25-sq						
7(N57).GAR		PC25-sq						
1×	o0982219	PC25-sq						
4(N57).KU ₃ ~a		PC25-sq						
11× III: 11p	o0982220	PC25-sq						
5(N57).KU ₃ ~a		PC25-sq						
4× III: 4p	o0982221	PC25-sq						

6(N57).KU _{3~a} 2× III: 2p o0982222 PC25-sq F229F						
2(N57).KU _{6~a} 1× III: 1p o0982223 PC25-sq F22A0						
1(N57).MUŠEN AKA: MUŠEN×1(N57) CDLI: MUŠEN×1(N57) 5× III: 5p o0982224 PC25-sq F22A2 12BEC						
2(N57).MUŠEN AKA: MUŠEN×2(N57) CDLI: MUŠEN×2(N57) 27× IV: 1p; III: 26p/1u o0982225 PC25-sq F22A3 12BED						
3(N57).MUŠEN AKA: MUŠEN×3(N57) CDLI: MUŠEN×3(N57) 1× III: 1p o0982226 PC25-sq F22A4						
3(N57).NUNUZ-a1 23× III: 20p/3u o0982227 ZATU424 PC25-sq F22A5						
3(N57).NUNUZ-c 2× III: 1p/1u o0982228 ZATU424 PC25-sq F22A6						
3(N57).PIRIG~b1 35× IV: 3p/1u; III: 25p/8u o0982229 ZATU429 PC25-sq F22A7						
3(N57).SANGA~a 1× III: 1p o0982230 PC25-sq F22BEE						
3(N57).SI 2× III: 2p o0982231 PC25-sq F22BEE						
1(N57).SIG AKA: SIG×1(N57) CDLI: SIG×1(N57) 1× IV: 1p o0982232 PC25-sq F22A8						
2(N57).SU~a 1× IV: 1u o0982233 UNP F22A9						
1(N57).ŠAH _{2~a} 4× III: 4p o0982234 PC25-sq F22AA						
1(N57).ŠUBUR 40× IV: 8p/1u; III: 27p/10u o0982235 ZATU540 PC25-sq F221F 1 F2220						
2(N57).ŠUBUR 2× III: 2p o0982236 PC25-sq F22AB						
3(N57).ŠUBUR 3× III: 3p o0982237 ZATU540 PC25-sq F22AC						
3(N57).UDU~a o0982238 ZERO ZATU577 F22AD						

2(N57).UDUNITA~a	ZERO							
o0982239		F22AE						
3(N57).UDUNITA~a	ZERO							
o0982240		F22AF						

L PC25 Encoded Exceptional Sequences

This table gives sequences which are encoded because they have some exceptional characteristic.

PCSL	FONT	CDLI	ATU3	ATU5	MSVO1	MSVO4	CUSAS
ADAB 126A4	PC25  o0980034	 126A4  126A4  126A4  126A4					
ARARMA _{z~a} 126C0	PC25  o0980069	 F208C  126C0					
ASAR 126C1	PC25  o0980073	 126C1		 126C1			
AZ 126C2	PC25  o0980075	 126C2					
BAPPIR~a 126D7	PC25  o0980096	 126D7					
BAPPIR~b 126D8	PC25  o0980097	 126D8		 126D8			
BAPPIR~c 126D9	PC25  o0980098	 126D9					
BAPPIR~d 126DA	PC25  o0980099	 126DA		 126DA		 126DA	
BAPPIR~e 126DB	PC25  o0980100	 126DB					
BAPPIR~f 126DC	PC25  o0980101	 126DC					
KITI 128A5	PC25  o0980692	 F2117  128A5  F2118		 F2117			
ME ₃ 1290A	PC25  o0980843	 1290A					
1(N58).BAD 12925	PC25  o0980877	 12925		 (a) 12925	 (a) 12925	 (a) 12925	 (a) 12925

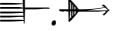
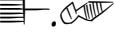
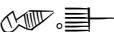
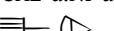
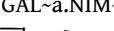
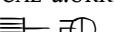
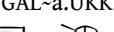
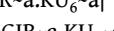
(1(N58).BAD)~b 12926		PC25 o0980878	 12926 F2223		 F2223			
3(N58).UR ₃ ~b1 12927		PC25 o0980879	 12927		 12927			
SILANITA 129F5		PC25 o0981145	 129F5					
ŠAGINA 12A1A		PC25 o0981190	 12A1A		 12A1A			
UDUNITA~a 12AA8		PC25 o0981407	 12AA8		 12AA8	 12AA8	 12AA8	 12AA8
UDUNITA~b 12AA9		PC25 o0981408	 12AA9		 12AA9			
UDUNITA~c 12AAA		PC25 o0981409	 12AAA		 12AAA			
UTUA~a@t 12AF0		PC25 o0981499	 12AF0		 12AF0	 12AF0	 12AF0	
UTUA~a@t 12AF1		PC25 o0981500	 12AF1		 12AF1			
UTUA~b 12AF2		PC25 o0981501	 F21D5 12AF2		 F21D5	 12AF2		
UTUL~a 12AF3		PC25 o0981502	 12AF3		 12AF3	 12AF3	 12AF3	 12AF3
UTUL~b 12AF4		PC25 o0981503	 12AF4		 12AF4			
UTUL~c 12AF5		PC25 o0981504	 12AF5		 12AF5			
UTUL~d 12AF6		PC25 o0981505	 12AF6		 12AF6			
ZUBI~a 12B03		PC25 o0981524	 12B03					

M Sequences Data

This table summarizes the naming, composition, and ligaturing of sequences:

- In column one the character name (CHARNAME) and glyph names (GLYFNAME) are given along with the decomposition of the ligature into the base characters; in this decomposition the different joiners are used rather than mapping them all to '.'.
 - In column two the precomposed single ligature character in the PUA is shown with its hex code; some ligatures do not have a precomposed version, in which case a '0' appears in this column.
 - In column three the input on the upper row is the Unicode character sequence corresponding to the ligature sequence in the lower row: if the ligature is working correctly the appearance of the upper row should match the character in column two. Font switching is used to access glyph variants.

E ₂ ~b.LIŠ		
E ₂ ~b.LIŠ	F2234	
▀. ▶		u12781_u129B5.liga
EN~a.KID~a		
EN~a.KID~a	F2235	
▀. □ □		u12787_u12941.liga
EN~a.ME~a.GI		
EN~a.ME~a°GI	F20C8	
▀. —. ▶▶		u12787_u12908_u12878.liga
EN~a.ME~a.GI		
EN~a.ME~a°GI ~1	F20C9	
▀. —. ▶▶		u12787_u12908_u12878.liga.cv01
EN~a.ME~a.GI		
EN~a°ME~a.GI	F20CA	
▀. —. ▶▶		u12787_u12908_u12878.liga.cv02
EN~a.ME~a.MU		
EN~a.ME~a.MU	F2236	
▀. —. →→		u12787_u12908_u129EC.liga
EN~a.ŠE~a@t.EZEN~b.NUN~a.SIG ₇		
EN~a.EZEN~b×ŠE~a@t°NUN~a.SIG ₇	F20CB	
▀. —. ○ ▷		u12787_u127A2_u12972_u12AE3.liga
EN~a.ŠE~a@t.EZEN~b.NUN~a.SIG ₇		
EN~a.BAHAR ₂ ~b°SIG ₇ .ME~a.NUN~a	F20CC	
▀. ▷▷ —. ▶. ▷		u12787_u126CB_u129C9_u12908_u12A74.liga
EN ₂ .E ₂ ~a		
EN ₂ .E ₂ ~a	F2237	
※. □□		u1278D_u127CA.liga
EN ₂ .E ₂ ~b		
EN ₂ .E ₂ ~b	F2238	
※. □□		u1278D_u127CE.liga
EŠDA.NAM ₂		
EŠDA.NAM ₂	F2144	
▷. □		u12792_u12A23.liga
EŠDA.NAM ₂		
EŠDA+NAM ₂	F2145	
▷=+□		u12792_u12A23.liga.cv01
GA~a.ZATU753		
GA~a.ZATU753	F20D2	
▀. □□		u127A9_u12D79.liga
GA~a.ZATU753		
ZATU753.GA~a	F20D1	
▀. △		u12BA6_u1280E.liga

GAL~a.BUR ₂ GAL~a.BUR ₂ 	F2239	 u127DE_u1271F.liga
GAL~a.LU ₂ GAL~a.LU ₂ 	F212A	 u127DE_u129B6.liga
GAL~a.LU ₂ LU ₂ °GAL~a 	F212B	 u128E5_u1284E.liga
GAL~a.NI~a GAL~a.NI~a 	F223A	 u127DE_u12A3A.liga
GAL~a.NIM~a GAL~a.NIM~a 	F223B	 u127DE_u12A43.liga
GAL~a.UKKIN~a GAL~a.UKKIN~a 	F2110	 u127DE_u12C31.liga
GAL~a.UKKIN~a GAL~a.UKKIN~a ~1 	F2111	 u127DE_u12C31.liga.cv01
GEŠTU~a.NAGA~a GEŠTU~a.NAGA~a 	F223C	 u127F9_u12A16.liga
GI ₆ .NUNUZ~c GI ₆ .NUNUZ~c 	F223D	 u12810_u12A87.liga
GIR~a.KU ₆ ~a GIR~a.KU ₆ ~a 	F223E	 u12812_u12965.liga
GIR~b.GIR~b GIR~b.GIR~b 	F223F	 u12813_u12896.liga
GIR ₃ ~c.AB~a GIR ₃ ~c.AB~a 	F2240	 u12819_u12698.liga
GIR ₃ ~c.PIRIG~b1 GIR ₃ ~c.PIRIG~b1 	F2241	 u12819_u12A98.liga

GIŠ.TE		
GIŠ.TE	F2242	u12820_u12BB9.liga
—.※		
—————		
GIŠ@t.E ₂ ~a		
GIŠ@t.E ₂ ~a	F2243	u12826_u127CA.liga
.■■■■■		
—————		
GU ₄ .ZATU755~b		
GU ₄ .ZATU755~b	F2244	u12833_u12D7C.liga
▷.{} —————		
—————		
GUUKKAL~a.HI@g~a		
GUUKKAL~a.HI@g~a	F2245	u1283D_u128F0.liga
⊕.■■■■■		
—————		
HI.LAGAB~a		
HI.LAGAB~a	F2246	u12852_u12980.liga
◇.○ —————		
—————		
HI.SUHUR		
HI.SUHUR	F20F5	u12852_u12B23.liga
◇.■■■■■		
—————		
HI.SUHUR		
HI.SUHUR ~1	F20F6	u12852_u12B23.liga.cv01
◇.■■■■■		
—————		
HI.SUHUR		
HI.SUHUR ~2	F20F7	u12852_u12B23.liga.cv02
◇.■■■■■		
—————		
(HI×1(N57)).(HI×1(N57))		
HI×1(N57)°HI×1(N57)	F20F9	u12853_u128EC.liga
◇.◇ —————		
—————		
HI×1(N57).HI×1(N57)		
HI×1(N57).HI×1(N57)	F20F8	u12853_u128EC.liga.cv01
◇.◇ —————		
—————		
IR~a.GA ₂ ~a1		
IR~a.GA ₂ ~a1	F2247	u12865_u12815.liga
⊕.□ —————		
—————		
KA~a.ŠE~a		
KA~a.ŠE~a	F2109	u1286C_u12B52.liga
⊕.→ —————		
—————		
KA~a.ŠE~a		
KA~a.ŠE~a@t	F2108	u1286C_u12B57.liga
⊕.↑ —————		
—————		
KAK~a.GA ₂ ~a1		
KAK~a.GA ₂ ~a1	F2248	u12874_u12815.liga
▷.□ —————		

KU ₆ ~a.GIŠ		
KU ₆ ~a.GIŠ		F2249
		
u128AB_u128A7.liga		

KU ₆ ~a.1(N02)		
KU ₆ ~a.1(N02)		F224A
		
u128AB_u125BE.liga		

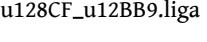
KUR~a.E ₂ ~a		
KUR~a.E ₂ ~a		F224B
		
u128AF_u127CA.liga		

KUR~a.NUNUZ~a1		
KUR~a.NUNUZ~a1		F224C
		
u128AF_u12A82.liga		

KUR~a.RU		
KUR~a.RU		F21B0
		
u128AF_u12AA5.liga		

KUR~a.RU		
KUR~a.RU ~1		F21AF
		
u128AF_u12AA5.liga.cv01		

KUR~b.E ₂ ~a		
KUR~b.E ₂ ~a		F224D
		
u128B0_u127CA.liga		

LAGAB~b.TE		
LAGAB~b.TE	0	
		
u128CF_u12BB9.liga		

ME~a.EN~a.ŠE~a.ŠA		
ME~a.EN~a.ŠE~a.ŠA		F224E
		
u12908_u12787_u12A22_u12B37.liga		

MUŠ ₃ ~a.AB~a		
MUŠ ₃ ~a.AB~a		F224F
		
u12921_u12698.liga		

MUŠ ₃ ~a.ERIN		
MUŠ ₃ ~a.ERIN		F2250
		
u12921_u127EF.liga		

MUŠ ₃ ~a.UNUG~a		
MUŠ ₃ ~a.UNUG~a		F2251
		
u12921_u12C44.liga		

MUŠEN.ŠE~a		
ŠE~a°MUŠEN		F21D6
		
u12A22_u12A05.liga		

MUŠEN.ŠE~a			
MUŠEN.ŠE~a			
MUŠEN.UR ₃ ~b2			
MUŠEN.UR ₃ ~b2			
MUŠEN.UR ₃ ~b2			
MUŠEN.UR ₃ ~b2 ~1			
1(N02).RU			
1(N02).RU			
NAGAR~a.BU~a			
NAGAR~a.BU~a			
NAGAR~a.BU~a			
NAGAR~b.BU~a			
NE~a.GI			
NE~a°GI			
NE~a.GI			
NE~c°GI			
NE~a.RU			
NE~a.RU			
NI~a.RU			
NI~a.RU			
NUN~a.ME~a			
NUN~a.ME~a			
NUN~a.ME~a			
NUN~a+ME~a			
NUN~a.ME~a.DU			
NUN~a.ME~a.DU			
NUN~b.U ₄ .U ₄ .1(N14).1(N08)			
NUN~b.U ₄	0		

PA~a.IB~a			
PA~a°IB~a			
	F2189		u12981_u128F4.liga
PA~a.IB~a			
PA~a.IB~a			
	F2188		u12981_u128F4.liga.cv01
PA~a.IB~a			
PA~a°IB~a ~1			
	F218A		u12981_u128F4.liga.cv02
PA~a.TE.SI			
PA~a.TE.SI			
	F2257		u12981_u12A62_u12AC7.liga
PA~a.UDU~a			
PA~a.UDU~a			
	F2178		u12981_u12C25.liga
PA~a.UDU~a			
PA~a.UDU~a ~1			
	F2179		u12981_u12C25.liga.cv01
PAP~a.IB~a			
PAP~a.IB~a			
	F218B		u12985_u128F4.liga
PAP~a.IB~a			
IB~a°PAP~a			
	F218C		u12859_u12A91.liga
SAL.KUR~a			
SAL.KUR~a			
	F2258		u129A1_u1296C.liga
SAL.LAGAR~a			
SAL.LAGAR~a			
	F2259		u129A1_u129A0.liga
SAL.LAM~b			
SAL.LAM~b			
	F225A		u129A1_u129B1.liga
SAL.ME~a			
SAL.ME~a			
	0		u129A1_u129E2.liga
SAL.NAM ₂			
SAL.NAM ₂			
	F225B		u129A1_u12A23.liga
SAL.NAM ₂ .EZEN~b×ŠE~a.NUN~a.SIG ₇			
SAL.NAM ₂ .EZEN~b×ŠE~a@t°NUN~a.SIG ₇			
	F225C		u129A1_u12939_u127A2_u12972_u12AE3.liga

SAL.SI		
SAL.SI		
▷. ▷	F225D	▷ ▷ u129A1_u12AC7.liga
SAL.SILA ₄ ~c		
SAL.SILA ₄ ~c		
▷. ⊙	F225E	▷ ⊙ u129A1_u12B15.liga
SAL.ŠU ₂		
SAL.ŠU ₂		
▷. <	F225F	◁ u129A1_u12B98.liga
SAL.ZATU751~a		
SAL.ZATU751~a		
▷. ▷	F2260	▷ ◆ u129A1_u12D75.liga
SAL.ZATU751~b		
SAL.ZATU751~b		
▷. ▷	F2261	▷ ◇ u129A1_u12D76.liga
SAL.ZATU751~c		
SAL.ZATU751~c		
▷. ◇	F2262	◇ u129A1_uF300F.liga
SU~a.KUR~a.RU		
SU~a.KUR~a.RU		
◀. ♪	F2263	◀ ♪ u129F7_u128AF_u12AA5.liga
ŠE~a.GAR		
ŠE~a.GAR		
»»—. ▷	F2228	»»▷ u12A22_u12868.liga
ŠE~a.GAR		
ŠE~a@t.GAR		
◀. ▷	F2229	◀ ▷ u12A24_u12868.liga
ŠE~a.KIN ₂ ~c		
ŠE~a.KIN ₂ ~c		
»»—. ♪	F2190	»»— ♪ u12A22_u12948.liga
ŠE~a@t.KIN ₂ ~c		
ŠE~a@t.KIN ₂ ~c		
◀. ♪	F2191	◀ ♪ u12A24_u12948.liga
ŠE~a.NAM ₂		
ŠE~a.NAM ₂		
»»—. □	F2192	»»— □ u12A22_u12A23.liga
ŠE~a.NAM ₂		
ŠE~a.NAM ₂ ~1		
»»—. □	F2193	»»— □ u12A22_u12A23.liga.cv01
ŠE~a.ŠA		
ŠE~a.ŠA		
»»—. ▶	F2126	»»— ▶ u12A22_u12B37.liga

ŠE~a.ŠA			
ŠA°ŠE~a			u12A0F_u12B52.liga
ŠELU			
ŠE~a.GUG ₂			u12A22_u128C8.liga
ŠE~a.NA~a			
ŠEŠ~a.NA~a			u12A32_u12A0B.liga
ŠITA~a1.MUD ₃ ~a			
ŠITA~a1.MUD ₃ ~a			u12A39_u129EF.liga
ŠU ₂ .E ₂ ~a			
ŠU ₂ .E ₂ ~a			u12A4A_u127CA.liga
ŠU ₂ .E ₂ ~b			
ŠU ₂ .E ₂ ~b			u12A4A_u127CE.liga
ŠU ₂ .EN~a			
ŠU ₂ .EN~a			u12A4A_u127D9.liga
ŠU ₂ .EN~a ~1			
ŠU ₂ .EN~a ~1			u12A4A_u127D9.liga.cv01
ŠU ₂ .EN~a ~2			
ŠU ₂ .EN~a ~2			u12A4A_u127D9.liga.cv02
ŠU ₂ .EN~b			
ŠU ₂ .EN~b			u12A4A_u127DA.liga
ŠU ₂ .GIŠ			
ŠU ₂ .GIŠ			u12A4A_u128A7.liga
ŠU ₂ ,(HI×1(N57).HI×1(N57))			
ŠU ₂ ,(HI×1(N57)).(HI×1(N57))			u12A4A_u12853_u128EC.liga
ŠU ₂ .PAP~a			
ŠU ₂ .PAP~a			u12A4A_u12A91.liga

ŠU ₂ .PAP~a.AN		
ŠU ₂ .AN	(*)	
<.*	F226D	*
		u12A4A_u126CC.liga

ŠU ₂ .URI ₃ ~a		
ŠU ₂ .URI ₃ ~a	(
<.*	F226E)
		u12A4A_u12C5F.liga

ŠU ₂ .1(N02)		
ŠU ₂ .1(N02)	(
<.*	F226F)
		u12A4A_u125BE.liga

ŠU ₂ .1(N24)		
ŠU ₂ .1(N24)	(
<.*	F2270)
		u12A4A_u125AA.liga

ŠU ₂ .2(N57)		
ŠU ₂ .2(N57)	(
<.*	F2271)
		u12A4A_uF0111.liga

TE.A		
TE.A	(
※.*	F2272)
		u12A62_u12690.liga

TUG ₂ ~a.BAD&BAD		
TUG ₂ ~a.BAD&BAD	(
≡.*	F21B8)
		u12A6B_u126E0.liga

TUG ₂ ~a.BAD&BAD		
TUG ₂ ~a@g.BAD&BAD	(
≡.*	F21B9)
		u12A6C_u126E0.liga

TUR ₃ ~a.5(N57).5(N57)		
TUR ₃ ~a.5(N57)	(
≡.*	F2273)
		u12A79_uF0114.liga

U ₄ .AB~b		
U ₄ .AB~b	(
♪.*	F2274)
		u12A7F_u126A3.liga

U ₄ .ŠU ₂		
U ₄ .ŠU ₂	(
♪.*	F2275)
		u12A7F_u12B98.liga

U ₄ .1(N08)		
U ₄ .1(N08)	(
♪.*	F2276)
		u12A7F_u12559.liga

U ₄ .2(N08)		
U ₄ .2(N08)	(
♪.*	F2277)
		u12A7F_u1255A.liga

$ U_4 \cdot 3(N08) $	$ U_4 \cdot 3(N08) $		F2278		u12A7F_u1255B.liga
$ U_4 \cdot 4(N08) $	$ U_4 \cdot 4(N08) $		F2279		u12A7F_u1255C.liga
$ U_4 \cdot 5(N08) $	$ U_4 \cdot 5(N08) $		F227A		u12A7F_u1255D.liga
$ U_4 \cdot 6(N08) $	$ U_4 \cdot 6(N08) $		F227B		u12A7F_u1255E.liga
$ U_4 \cdot 7(N08) $	$ U_4 \cdot 7(N08) $		F227C		u12A7F_u1255F.liga
$ U_4 \cdot 8(N08) $	$ U_4 \cdot 8(N08) $		F227D		u12A7F_u12560.liga
$ U_4 \cdot 1(N14) $	$ U_4 \cdot 1(N14) $		F227E		u12A7F_u12562.liga
$ U_4 \cdot 1(N14).1(N08) $	$ U_4 \cdot 1(N14).1(N08) $	0			u12A7F_u12562_u12559.liga
$ U_4 \cdot 1(N14).3(N08) $	$ U_4 \cdot 1(N14).3(N08) $		F227F		u12A7F_u12562_u1255B.liga
$ U_4 \cdot 1(N14).4(N08) $	$ U_4 \cdot 1(N14).4(N08) $		F2280		u12A7F_u12562_u1255C.liga
$ U_4 \cdot 1(N14).5(N08) $	$ U_4 \cdot 1(N14).5(N08) $		F2281		u12A7F_u12562_u1255D.liga
$ U_4 \cdot 1(N14).8(N08) $	$ U_4 \cdot 1(N14).8(N08) $		F2282		u12A7F_u12562_u12560.liga
$ U_4 \cdot 2(N14) $	$ U_4 \cdot 2(N14) $		F2283		u12A7F_u12563.liga

$ U_4 \cdot 1(N24) $		F2284		u12A7F_u125AA.liga
$ U_4 \times 1(N01).5(N08) $		F2285		u12A80_u1255D.liga
$ U_4 \times 2(N01).2(N14) $		F2286		uF2481_u12563.liga
$ U_4 \times 2(N01).2(N14).1(N08) $		F2287		uF2481_u12563_u12559.liga
$ U_4 \times 3(N01).3(N08) $		F2288		u12A82_u1255B.liga
$ U_4 \times 4(N01).2(N14) $		F2289		u12A83_u12563.liga
$ U_4 \times 5(N01).1(N14) $		F228A		u12A84_u12562.liga
$ U_4 \times (1(N14).3(N01)).1(N14).4(N08).1(N14).4(N08) $		F228B		uF253C_u12562_u1255C.liga
$ URI_3 \sim a.AB \sim a $		F228C		u12AD4_u12698.liga
$ URI_3 \sim a.IB \sim a $		F228D		u12AD4_u128F4.liga
$ URI_3 \sim a.NA \sim a $		F2147		u12AD4_u12A0B.liga
$ URI_3 \sim a.NA \sim a $		F2146		u12AD4_u12A0B.liga.cv01
$ URI_3 \sim a.NA \sim a $		F2148		u12AD4_u12A0B.liga.cv02

URI ₃ ~a.UNUG~a		
URI ₃ ~a.UNUG~a	 F228E	 u12AD4_u12C44.liga
UŠ~a.KUR~a		
UŠ~a.KUR~a	 F20FF	 u12AE9_u1296C.liga
UŠ~a.KUR~a		
UŠ~b.KUR~a	 F20FE	 u12AEB_u1296C.liga
ZATU714.RU		
ZATU714.RU	 F228F	 u12B76_u12AA5.liga
1(N57).AB ₂		
1(N57).AB ₂	 F2290	 u12BEC_u126A7.liga
2(N57).AB ₂		
2(N57).AB ₂	 F2291	 u12BED_u126A7.liga
3(N57).AMAR		
3(N57).AMAR	 F2292	 u12BEE_u126C5.liga
4(N57).AMAR		
4(N57).AMAR	 F2293	 u12BEF_u126C5.liga
3(N57).AZ		
3(N57).AZ	0	 u12BEE_u126DC.liga
3(N57).BAR×UŠ~a		
3(N57).BAR×UŠ~a	 F2294	 u12BEE_uF3095.liga
3(N57).BARA ₃		
3(N57).BARA ₃	 F2295	 u12BEE_u12702.liga
2(N57).BIR ₃ ~a		
2(N57).BIR ₃ ~a	 F2296	 u12BED_u12706.liga
1(N57).BU ₃		
1(N57).BU ₃	0	 u12BEC_u12718.liga

2(N57).DU ₆ ~a@n		= ◇	
2(N57).DU ₆ ~a@n	0		u12BED_uF3089.liga
= ◇			

1(N57).E ₂ ~a		- █	
1(N57).E ₂ ~a			
- . █	F2297		u12BEC_u127CA.liga

3(N57).E ₂ ~b		█ █	
3(N57).E ₂ ~b			
= . █	F2221		u12BEE_u127CE.liga

3(N57).EN ₂		≡ *	
3(N57).EN ₂	0		
= . *			u12BEE_u127E3.liga

3(N57).GAR		≡ ▷	
3(N57).GAR			
= . ▷	F2298		u12BEE_u12868.liga

4(N57).GAR		≡ ▷	
4(N57).GAR			
= . ▷	F2299		u12BEF_u12868.liga

5(N57).GAR		≡ ▷	
5(N57).GAR			
= . ▷	F229A		u12BF0_u12868.liga

6(N57).GAR		≡ ▷	
6(N57).GAR			
= . ▷	F229B		u12BF1_u12868.liga

7(N57).GAR		≡ ▷	
7(N57).GAR			
= . ▷	F229C		u12BF2_u12868.liga

4(N57).KU ₃ ~a		≡ ↗	
4(N57).KU ₃ ~a			
= . ↗	F229D		u12BEF_u12963.liga

5(N57).KU ₃ ~a		≡ ↗	
5(N57).KU ₃ ~a			
= . ↗	F229E		u12BF0_u12963.liga

6(N57).KU ₃ ~a		≡ ↗	
6(N57).KU ₃ ~a			
= . ↗	F229F		u12BF1_u12963.liga

2(N57).KU ₆ ~a		≡ ↖	
2(N57).KU ₆ ~a			
= . ↖	F22A0		u12BED_u12965.liga

3(N57).LAM~a.KUR~a.RU		
3(N57).LAM~a.KUR~a.RU		F22A1
=.		
<hr/>		
1(N57).MUŠEN		
1(N57).MUŠEN		F22A2
-.		
<hr/>		
2(N57).MUŠEN		
2(N57).MUŠEN		F22A3
=.		
<hr/>		
3(N57).MUŠEN		
3(N57).MUŠEN		F22A4
=.		
<hr/>		
3(N57).NUNUZ~a1		
3(N57).NUNUZ~a1		F22A5
=.		
<hr/>		
3(N57).NUNUZ~c		
3(N57).NUNUZ~c		F22A6
=.		
<hr/>		
3(N57).PIRIG~b1		
3(N57).PIRIG~b1		F22A7
=.		
<hr/>		
3(N57).RU		
3(N57).RU		F21B2
=.		
<hr/>		
3(N57).RU		
3(N57).RU ~1		F21B1
=.		
<hr/>		
3(N57).SANGA~b		
3(N57).SANGA~a	0	
=.		
<hr/>		
3(N57).SI		
3(N57).SI	0	
=.		
<hr/>		
1(N57).SIG		
1(N57).SIG		F22A8
-.		
<hr/>		
2(N57).SU~a		
2(N57).SU~a		F22A9
=.		

1(N57).ŠAH₂~a		
1(N57).ŠAH₂~a		F22AA
- . 		u12BEC_u12B49.liga
-----	-----	-----
1(N57).ŠUBUR		
ŠUBUR×1(N57)		F221F
		u12A4C_uF0110.liga
-----	-----	-----
1(N57).ŠUBUR		
1(N57).ŠUBUR		F2220
- . 		u12BEC_u12B9E.liga
-----	-----	-----
2(N57).ŠUBUR		
2(N57).ŠUBUR		F22AB
= . 		u12BED_u12B9E.liga
-----	-----	-----
3(N57).ŠUBUR		
3(N57).ŠUBUR		F22AC
≡ . 		u12BEE_u12B9E.liga
-----	-----	-----
3(N57).UDU~a		
3(N57).UDU~a		F22AD
≡ . 		u12BEE_u12C25.liga
-----	-----	-----
2(N57).UDUNITA~a		
2(N57).UDUNITA~a		F22AE
= . 		u12BED_u12C2A.liga
-----	-----	-----
3(N57).UDUNITA~a		
3(N57).UDUNITA~a		F22AF
≡ . 		u12BEE_u12C2A.liga
-----	-----	-----
1(N57).URU~a1		
1(N57).URU~a1		F22B0
- . 		u12BEC_u12C63.liga
-----	-----	-----
2(N57).URU~a1		
2(N57).URU~a1		F22B1
= . 		u12BED_u12C63.liga
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N Implementation Notes on Sequences

This section provides some background on how PCSL handles sequences.

N.1 Sequences have constant character names

In PCSL, the tag @sign is used for sign names and is dissociated from glyph names. All of the variants of a sequence are grouped under a single @sign. The sign name is composed of a conventional ordering of the sequence, with each component joined by periods ('.'). Each sign name is unique among the set of sign names. If there is an attested simple linear sequence for a sequence character, that form is selected for the character name. The mnemonically named LUGAL occurs in a simple linear sequence as |GAL~a.LU₂|, so that is used as the name of the character.

N.2 Glyphs have unique names

PCSL uses a new tag, @glyf to clarify the separation of character names versus glyph names. Glyph names consist of a name conforming to an extended set of rules for grapheme naming and possibly a variant tag, consisting of a tilde and a sequence of one or more digits. One glyph name for LUGAL is |GAL-a.LU₂-a|~1. The variant tag is stable and represents a variation on the basic glyph name (i.e., the name with all joiners mapped to '.'). Glyph names only have to be unique among @glyf entries; a @sign and @glyf may have the same name.

N.3 How unique glyph names are constructed

Unique glyph names are constructed by varying the order and joiners of the grapheme notation in a way that reflects the variant's form. The joiners are '.' ("BESIDE"), '+' ("JOINING"), and '?' ("TURNING"), the ring operator. This last is an addition to ATF notation to support the description of sign clustering.

Glyph names do not encode internal glyph variation, i.e., several variant forms of IB are used in the construction of ŠAB (|[PA.IB]|).

Following the corpus-building rule that input text should not be reordered, glyph names do not reorder components. Where there is a reasonable choice of how to describe the order of components an order identical or closer to the sequence character name is preferred. Thus, in the case of character |PAP~a.IB~a|, the glyph  could reasonably be described as |PAP~a.IB~a| or |IB~a~PAP~a|. The former is preferred because it follows the character name.

Similarly, glyph names do not remap or normalize variant components that are considered distinct signs in PCSL. Thus, for character |UŠ~a.KUR~a| there are glyphs |UŠ~a.KUR~a| and |UŠ~b.KUR~a|; similarly, for |EN~a.EZEN~b~ŠE~a.NUN~a.SIG₇| there are glyphs |EN~a.EZEN~b~ŠE~a@t~NUN~a.SIG₇| and (with a distinct component) |EN~a.BAHAR₂~b~SIG₇.ME~a.NUN~a|.

N.4 How glyph names are turned into ligatures

Glyph names are turned into ligatures by taking the base component signs and joining them with the ZWJ, U+200D. Multiple glyph names may generate the same core ligature sequence, so CVnn tags are added to the second and subsequent duplicate core ligatures to disambiguate them. Thus, |ŠE~a.NAM₂| has two glyph forms, named |ŠE~a.NAM₂|~1 and |ŠE~a.NAM₂|~2. These are mapped, schematically, to ŠE~a_u200D_NAM₂ and ŠE~a_u200D_NAM₂.cv01. The CVnn used in the font is relative to the number of previous duplicate siblings of the glyph name; in the case of the character |GA~a.ZATU753| there are glyphs |GA~a.ZATU753|~1 and |ZATU753.GA~a|~1; neither ligature therefore requires a CVnn.

Note that in order for this approach to work it is important to specify the OpenType feature lookups in the correct order: liga must come before cv01 .. cvNN, and salt should come last. Unmarked liga should be in the liga table; liga.cvNN should be in the salt table.

In XeTeX, the features for the cvNN ligatures should be specified as "+cv01,+salt=0", "+cv02,+salt=1", "+cv03,+salt=2" (specifying +liga is unnecessary with XeTeX; note that salt index is 0-based).

O Fonts for the Proposal

The proposal is supported by two fonts:

O.1 PCSL.ttf

This is the font used for the PCSL table and other appendices in the proposal. The font is remapped and augmented from an earlier font which was named PC24.ttf. Both PC24.ttf and PCSL.ttf owe a huge debt to the original work of Anshuman Pandey in turning Bob Englund's CDLI glyph collection into a font, and to Robin Leroy's work on Archaic Cuneiform Numerals. PCSL.ttf has been augmented and revised extensively by Steve Tinney and currently contains the following components:

- 12550-12686 are derived from Robin Leroy's Archaic Cuneiform Numerals font
- 12690-12BF9 are the reference glyphs for characters proposed for encoding here

- F00DA-F012D are characters not proposed for encoding but listed in the OSL PUA
- F2000-F22B1 are glyph variants; these are also included under a .cvNN variant of the character of which they are a variant; in the PCSL table the .cvNN codes are indicated by subscript numbers before the glyph variants listed in the FONT column
- F2400-F2DA4 are unencoded characters and characters preserved from Anshuman Pandey's original PC font
- .ss04/.ss03 give some Uruk IV/III variant forms but this has not been done systematically; all .ss04 and .ss03 are also present as glyph variants
- .ss20 is a styleset that supports constrained width displays such as code charts; .ss20 only exists for reference glyphs that are over 1200 units wide. The font is sized to use a maximum of 1200 units in the y axis so no scaling needed for taller signs, only for wider signs.
- .liga entries to support the sequences as described in the Sequence Data appendix

0.2 pc25-cc.ttf

This font is designed only for use with the code chart and character list. The font contains no PC characters which are not in the proposed repertoire and uses no font features. The scaled forms that are in .ss20 in PCSL.ttf are placed directly in their reference glyph code points in pc25-cc.ttf.

The font is used in the proposal for code charts and character list and is also attached to the proposal PDF.