

Proposal to Encode Proto-Cuneiform

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This is a revised proposal to encode ‘Proto-Cuneiform’ (ISO 15924 Pcn) 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’ block in Unicode contains 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 supercedes 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.

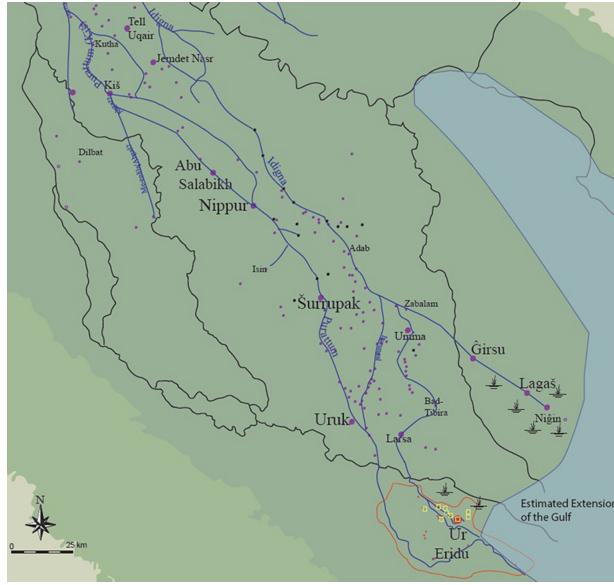


Figure 1: Map of southern Iraq showing canal networks and key settlements of the late fourth and early third millennia BCE (after Benati, <https://cdli.earth/articles/cdlj/2015-2>)

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. Only small groups of texts are omitted from the Late Uruk/Jemdet Nasr period (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).

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

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

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 Uruk III is not based on stratigraphy but on formal and palaeographic features.

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.

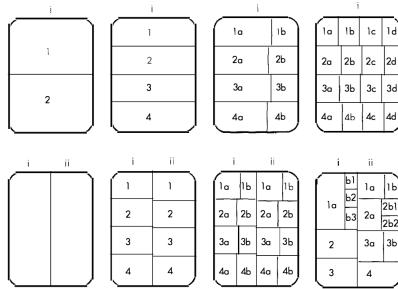


Figure 3: Sample tablet organizations; the CDLI transliterations utilize dotted line numbers to address cases of the form 1a.b2 etc.

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 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.

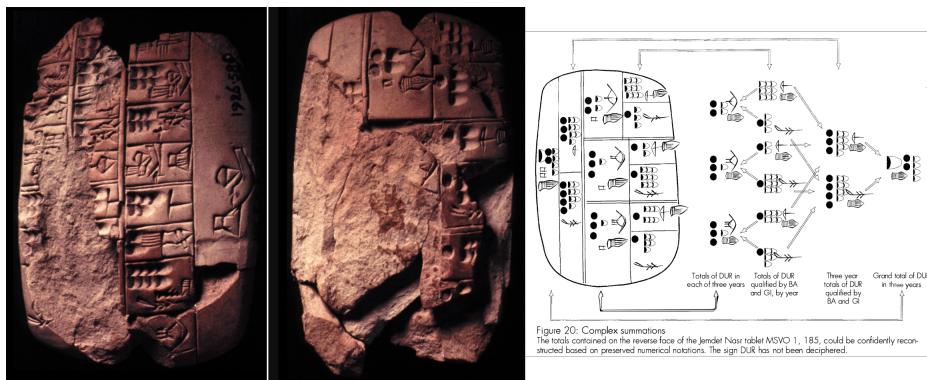


Figure 4: The complex summation MSVO 1, 185 with Englund's analysis.

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

A grid of 100 ancient Egyptian hieroglyphs arranged in 10 rows and 10 columns. The symbols represent various objects and concepts from ancient Egyptian culture, including animals like a lion, a crocodile, and a bird; tools like a hoe and a hand; and abstract symbols like a sun disk and a horizon line.

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

is evidenced by one or more manuscripts. A sample composite is given in the figure above, and examples of lexical tablets are below.



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

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.

	Uruk IV	Uruk III	Uruk IV	Uruk III	
1	DUG _b				
	DUG _a		Pots		Chief Administrators
	DUG _c				
	KAS _a				Exchequers
2	GU ₄		Oxen		Gods ²
	AMAR		Calves		Workmen
	ŠAH ₂		Pigs		Inanna
	BU _a		Snakes		Nights
3	SAG		Men		Stars
	TUR		Children		Milk buckets
	Gl ₆				
	AN				
4	GA _a				

Figure 22: Paleographic differences
The table demonstrates some of the graphic developments between the Uruk IV and III periods. 1: straightening of oblique lines, 2: abstraction of pictograms, 3: simplification of elements, standardization of sign orientation, 4: varia

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.

		Sex Age	Females	Males
SMALL CATTLE: SHEEP AND GOATS	Wool Sheep	Adults	U ₈	UDUNITA a
			U ₈	UDUNITA b
		Juveniles	KIR ₁₁	SILANITA
		F-Horned Sheep [?]	c	c
			GUKKAL a	GUKKAL c
	Goats	Adults	b	d
			UD ₅	MAŠ ₂
		Juveniles	EŠGAR	MAŠ

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

Uruk IV	Uruk III	sign name	meaning	Uruk IV	Uruk II	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			GA _a	milk?
		DUG _b	dairy fat				
		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.

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 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), nij₂ (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 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 KAŠ_a and 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 KAŠ_b and 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 mes-lu₂-nu-še₃ in Section 3.1.

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 sila₃ še mušen niga “sila 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 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 E_{2~a}, E_{2~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.

- a lack of subdivision of cases similar to the Late Uruk period.
- total expressed as $gu_2\text{-}an\text{-}\check{e}_3$.

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 signatory 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.

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 Verwaltungs- texte aus Uruk: Vorderasiatische Museum II*, ATU 6, Berlin 2005.

ATU7 R.K. Englund and Nissen, H., *Archaische Verwaltungs- texte 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 supercede ATU1
- Jemdet Nasr (Uruk III) tablets from MSVO1; these supercede 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, KUŠU_{2-a} to KUŠU_{2-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 KAR_{2-a} and KAR_{2-b} in CDLI-tc and CDLI-gh, but in the DARA₃×KAR₂ compounds the only notations that occur are |DARA_{3-c}×KAR₂| and |DARA_{3-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 principal imperatives are:

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
F	1270F	1271F	1272F	1273F	1274F	1275F	1276F	1277F	1278F	1279F	127AF	127BF	127CF	127DF	127EF	127FF

	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	128A	128B	128C	128D	128E	128F
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	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	129A	129B	129C	129D	129E	129F
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	12A0	12A1	12A2	12A3	12A4	12A5	12A6	12A7	12A8	12A9	12AA	12AB	12AC	12AD	12AE	12AF
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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 PLUS SHE-A	12737		PROTO-CUNEIFORM SIGN DUB NUTILLU-B TIMES ONE N58-A
12708		PROTO-CUNEIFORM SIGN DARA3-D TIMES KAR2-B	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	129BF		PROTO-CUNEIFORM SIGN SIG2-B
1298G		PROTO-CUNEIFORM SIGN RAD-A	129C0		PROTO-CUNEIFORM SIGN SIG2-B OVER SIG2-B
12990		PROTO-CUNEIFORM SIGN RAD-A GUNU	129C1		PROTO-CUNEIFORM SIGN SIG2-C1
12991		PROTO-CUNEIFORM SIGN RAD-B	129C2		PROTO-CUNEIFORM SIGN SIG2-C2
12992		PROTO-CUNEIFORM SIGN RI8-A	129C3		PROTO-CUNEIFORM SIGN SIG2-D1
12993		PROTO-CUNEIFORM SIGN RI8-B	129C4		PROTO-CUNEIFORM SIGN SIG2-D2
12994		PROTO-CUNEIFORM SIGN RI8-C	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			

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	12A8C		PROTO-CUNEIFORM SIGN U4 TIMES ONE N14
12A5D		PROTO-CUNEIFORM SIGN TAG-D	12A8D		PLUS EIGHT N01
12A5E		PROTO-CUNEIFORM SIGN TAK4-A	12A8E		PROTO-CUNEIFORM SIGN U4 TIMES TWO N14
12A5F		PROTO-CUNEIFORM SIGN TAK4-A NUTILLU			PLUS FOUR N01
12A60		PROTO-CUNEIFORM SIGN TAK4-C	12A8F		PROTO-CUNEIFORM SIGN U4 TIMES THREE N14
12A61		PROTO-CUNEIFORM SIGN TAR-A	12A90		PLUS TWO N01
12A62		PROTO-CUNEIFORM SIGN TE	12A91		PROTO-CUNEIFORM SIGN U4 TIMES THREE N14
12A63		PROTO-CUNEIFORM SIGN TI	12A92		PLUS SEVEN N01
12A64		PROTO-CUNEIFORM SIGN TI GUNU	12A93		PROTO-CUNEIFORM SIGN U4 TIMES ONE N57
12A65		PROTO-CUNEIFORM SIGN TI REVERSED	12A94		PROTO-CUNEIFORM SIGN U4 TIMES TWO N57
12A66		PROTO-CUNEIFORM SIGN TI TENU	12A95		PROTO-CUNEIFORM SIGN U4 TIMES THREE N57
12A67		PROTO-CUNEIFORM SIGN TILLA2	12A96		PROTO-CUNEIFORM SIGN U4 TIMES FOUR N57
12A68		PROTO-CUNEIFORM SIGN TU-A	12A97		PROTO-CUNEIFORM SIGN U4 TIMES FIVE N57
12A69		PROTO-CUNEIFORM SIGN TU-B	12A98		PROTO-CUNEIFORM SIGN U4 TIMES SIX N57
12A6A		PROTO-CUNEIFORM SIGN TU-C	12A99		PROTO-CUNEIFORM SIGN U4 TIMES SEVEN N57
12A6B		PROTO-CUNEIFORM SIGN TUG2-A	12A9A		PROTO-CUNEIFORM SIGN U4 TIMES EIGHT N57
12A6C		PROTO-CUNEIFORM SIGN TUG2-A GUNU	12A9B		PROTO-CUNEIFORM SIGN U4 TIMES NINE N57
12A6D		PROTO-CUNEIFORM SIGN TUG2-B	12A9C		PROTO-CUNEIFORM SIGN U4 TIMES TEN N57
12A6E		PROTO-CUNEIFORM SIGN TUG2-C	12A9D		PROTO-CUNEIFORM SIGN U4 TIMES ELEVEN N57
12A6F		PROTO-CUNEIFORM SIGN TUM-A	12A9E		PROTO-CUNEIFORM SIGN U4 TIMES TWELVE N57
12A70		PROTO-CUNEIFORM SIGN TUM-A GUNU	12A9F		PROTO-CUNEIFORM SIGN U4 TIMES THIRTEEN N57
12A71		PROTO-CUNEIFORM SIGN TUM-B	12AA0		PROTO-CUNEIFORM SIGN U4 TIMES FOURTEEN N57
12A72		PROTO-CUNEIFORM SIGN TUM-C			PROTO-CUNEIFORM SIGN UD5-A
12A73		PROTO-CUNEIFORM SIGN TUM-D			
12A74		PROTO-CUNEIFORM SIGN TUN3-A			
12A75		PROTO-CUNEIFORM SIGN TUN3-B			
12A76		PROTO-CUNEIFORM SIGN TUN3-C			
12A77		PROTO-CUNEIFORM SIGN TUN3-D			

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-B
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 F207A		12690	12690	12690	12690
584x IV: 32p/17u; III: 346p/183u	o0980000	ZATU001						
A×AB ₂ 3x III: 3u	o0980001	UNP	F2400					
A×AN o0980002		EDI	F24F2					
A×EN~a 12691 1x IV: 1p	o0980003	PC25 ZATU002	12691	12691	12691			
A×ŠUBUR 12692 1x IV: 1p	o0980004	PC25 ZATU003	12692	12692		12692		
A×ZATU672 12693 1x IV: 1p	o0980005	PC25 ZATU005	12693	12693		12693		
A×1(N14) 12694 1x IV: 1p	o0980006	PC25 ZATU004	12694	12694				
A@g	o0980007	EDI	F24CC					
A@t 1x III: 1u	o0980008	UNP	F2401					
A ₂ 12695 2x IV: 1p; III: 1p	o0980009	PC25 ZATU006	12695	12695	12695	12695		
AB~a 12696 450x IV: 34p/6u; III: 316p/93u	o0980010	PC25 ZATU007	F207B 12696	12696	12696 F207B	12696	12696	12696
AB~a×A@t 12697 2x IV: 1p/1u	o0980011	PC25	12697 12697 F207C			12697		
AB~a×AŠ ₂ 12698 2x III: 2p	o0980012	PC25 ZATU009	12698 12698 F207D		F207D			
AB~a×KU ₆ ~a o0980013	ZATU389	ZERO	F2402					
AB~a×SUKKAL 3x III: 3u	o0980014	UNP	F2403					
AB~a×(ŠE~a&ŠE~a) 12699 3x III: 3p	o0980015	PC25	12699 12699 F207E					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							
3× IV: 1u; III: 1p/1u	o0980020	ZATU011					
AB~b	PC25	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							
		1 F207F	1 F207F	1 F207F	1 F207F	1 F207F	1 F207F
350×							
IV: 82p/7u; III: 208p/51u	o0980025	ZATU012	2 F2080				
AB ₂ ×2(N14)	PC25	1269F	1 F2081	1 F2081	1 F2081	1 F2081	
1269F							
2× IV: 2p	o0980026	ZATU013	1269F	1269F	1269F	1269F	
AB ₂ @g	UNP	F2525					
	1×	o0980027					
ABGAL	PC25-sq						
51× III: 42p/9u	o0980028	ZATU015	1 F2083	1 F2083	1 F2083	1 F2083	
ABRIG	PC25-sq						
2× III: 2p	o0980029	ZATU016	1 F2084	1 F2084	1 F2084	1 F2084	
ABZU	PC25	126A0	1 F2227	1 F2227	1 F2227	1 F2227	126A0
126A0							
5× III: 5p	o0980030	ZATU017	126A0				

AD~a 126A1		PC25							
51× III: 37p/14u	o0980031	ZATU018		126A1		126A1		126A1	126A1
AD~b 126A2		PC25							
3× IV: 1p; III: 2p	o0980032	ZATU018		126A2		126A2			
AD~c 126A3		PC25							
9× IV: 1p; III: 6p/2u	o0980033	ZATU018		126A3			126A3		
ADAB 126A4		PC25							
44× IV: 14p/4u; III: 15p/9u	o0980034	ZATU019		126A4		126A4	126A4		126A4
1.	F2086								
ADDA 126A5		PC25							
1× III: 1p	o0980035	ZATU020		126A5		126A5			
ADDA@t		ZERO							
	o0980036			F2409					
AGAR₂ 126A6		PC25							
18× III: 16p/2u	o0980037	ZATU022		126A6		126A6		126A6	
AK~a 126A7		PC25							
56× IV: 8p/1u; III: 35p/12u	o0980038	ZATU023		126A7		126A7	126A7	126A7	126A7
AK~b 126A8		PC25							
2× IV: 2p	o0980039	ZATU023		126A8					
AL 126A9		PC25							
132× IV: 11p/3u; III: 79p/39u	o0980040	ZATU024		126A9		126A9	126A9	126A9	126A9
ALAN~a 126AA		PC25							
8× IV: 2u; III: 5p/1u	o0980041	ZATU025		126AA					
ALAN~b 126AB		PC25							
7× III: 4p/3u	o0980042	ZATU025		126AB		126AB			
ALAN~c 126AC		PC25							
8× IV: 1u; III: 5p/2u	o0980043	ZATU025		126AC					
ALAN~d		UNP							
1× IV: 1u	o0980044	ZATU025		F240A					
ALAN~e 126AD		PC25							
2× III: 2p	o0980045	ZATU025		126AD				126AD	
ALAN~f		EDI							
	o0980046			F24CD					
ALIM 126AE		PC25							
12× III: 10p/2u	o0980047	ZATU026		126AE		126AE (a)			

AM~a 126AF 2x III: 2p		PC25 o0980048 ZATU027						
AM~b 126B0 2x III: 2p		PC25 o0980049 ZATU027						
AMA~a 126B1 105x IV: 19p/1u; III: 64p/20u		PC25 o0980050 ZATU028						
 AMA~axE~a 126B2 4x III: 3p/1u		PC25 o0980051						
AMA~b 126B3 6x IV: 1p/1u; III: 4p		PC25 o0980052 ZATU028						
AMAR 126B4 164x IV: 23p/8u; III: 97p/29u		PC25 o0980053 ZATU029						
 AMAR.1(N02) 2x III: 2p		PC25-sq o0980054						
 AMARxTAR~c 126B5 AKA: AMARxTAR CDL: AMARxTAR 1x IV: 1p		PC25 o0980055 ZATU030						
 AMAR&AMAR 126B6 1x IV: 1p		PC25 o0980056						
AMAR@g 1x IV: 1p		PC25-bk o0980057						
AN 126B7 992x IV: 105p/20u; III: 585p/274u	*	PC25 o0980058 ZATU031						
ANŠE~a 126B8 9x IV: 3p/2u; III: 3p/1u		PC25 o0980059 ZATU032						
ANŠE~b 126B9 32x IV: 1p/1u; III: 21p/9u		PC25 o0980060 ZATU032						

ANŠE~c 126BA		PC25						
4x IV: 1p; III: 2p/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: 139p/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 o0980076 ZATU039			126C3					

BA 126C4		PC25							
779x IV: 111p/17u; III: 440p/202u	o0980077	ZATU040							
BAD 126C5		PC25							
104x IV: 19p/3u; III: 59p/23u	o0980078	ZATU041							
BAD&BAD 126C6		PC25							
42x IV: 1p/2u; III: 29p/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: 17p/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: 1p	o0980087	ZATU046							
BALAG 126CF		PC25							
20x IV: 7p/1u; III: 9p/3u	o0980088	ZATU047							
BAN~a 126D0		PC25							
17x IV: 8p/1u; III: 6p/2u	o0980089	ZATU048							

BAN~b 126D1		PC25 o0980090 ZATU048						
16x IV: 1u; III: 2p/13u								
BANŠUR~a 126D2		PC25 o0980091 ZATU049						
1x IV: 1p								
BANŠUR~a@t 126D3		PC25 o0980092						
1x IV: 1p								
BANŠUR~b1 126D4		PC25 o0980093 ZATU049						
3x III: 2p/1u								
BANŠUR~b2 126D5		PC25 o0980094 ZATU049						
1x III: 1p								
BANŠUR~c 126D6		PC25 o0980095 ZATU049						
2x III: 2p								
BAPPIR~a 126D7		PC25 o0980096 ZATU050						
4x III: 3p/1u								
BAPPIR~b 126D8		PC25 o0980097 ZATU050						
3x III: 3p								
BAPPIR~c 126D9		PC25 o0980098 ZATU050						
1x III: 1p								
BAPPIR~d 126DA		PC25 o0980099 ZATU050						
6x III: 6p								
BAPPIR~e 126DB		PC25 o0980100 ZATU050						
1x III: 1p								
BAPPIR~f 126DC		PC25 o0980101 ZATU050						
1x III: 1p								
BAR 126DD		PC25 o0980102 ZATU051						
426x IV: 27p/13u; III: 271p/113u								
BARxURI ₃ ~a		NOT o0980103						
BARxUŠ~a		NOT o0980104						
BARA ₂ ~a 126DE		PC25 o0980105 ZATU052						
75x IV: 13p/5u; III: 43p/13u			1 F2093					
BARA ₂ ~b 126DF		PC25 o0980106 ZATU052						
4x IV: 4p			1 F2094					

BARA₃ 126E0 18x III: 15p/3u		PC25 o0980107 ZATU053		126E0		126E0				126E0	
BAU405 CDLI: UET ₂ ,405		EDI o0980108		F24EF							
BIR~a 126E1 6x IV: 3p; III: 1p/1u		PC25 o0980109 ZATU054		126E1		126E1					
BIR~b 126E2 1x IV: 1p		PC25 o0980110 ZATU054		126E2					126E2		
BIR~c 126E3 1x IV: 1p		PC25 o0980111 ZATU054		126E3		126E3					
BIR₃~a 126E4 18x IV: 1p; III: 14p/3u		PC25 o0980112 ZATU055		1 F2095 126E4					F2095		126E4
BIR₃~b 126E5 7x IV: 3p; III: 1p/3u		PC25 o0980113 ZATU055		1 F2096 126E5					F2096		
BIR₃~c 126E6 4x III: 4p		PC25 o0980114 ZATU055		126E6 1 F2097		126E6					F2097
BU~a 126E7 568x IV: 48p/6u; III: 358p/153u		PC25 o0980115 ZATU056		1 F2098 126E7		126E7		126E7	126E7		126E7
(BU~a.DU ₆ ~a)&(BU~a.DU ₆ ~a))xUDU~a o0980116	ZERO			F2523							F2523
 BU~a+DU₆~a 126E8 AKA: BU~a.DU ₆ ~a 61x IV: 3p/1u; III: 45p/10u		PC25 o0980117 ZATU059		126E8 1 F2099		126E8		126E8 F2099	126E8		126E8
 BU~a+KI 126E9 1x III: 1p		PC25 o0980118		126E9							126E9
 BU~a+TU~b 	ZERO			F2526							F2526
 BU~axA 126EA 2x IV: 1p; III: 1p		PC25 o0980120 ZATU057		126EA				126EA		126EA	
 BU~axGiŠ@t 	UNP			F240D							
 BU~ax1(N58) 	UNP			F240E							
1x III: 1u											

$ (BU\sim a \& BU\sim a).NA_2\sim a $ 126EB		PC25	 126EB F209A	 F209A	 126EB			
8x IV: 1p; III: 7p o0980123 ZATU058		DEL	 F209B					
$ (BU\sim a \& BU\sim a).NA_2\sim b $		o0982241 ZATU058	PC25-bk	 F240F				
1x IV: 1p o0980124								
$ (BU\sim a \% BU\sim a).NA_2\sim a @ n $ 126EC		PC25	 126EC F209B 2 F209C	 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 o0980125								
$BU\sim b$ 126ED		PC25	 126ED	 126ED	 126ED	 126ED		
14x IV: 2p; III: 11p/1u o0980126 ZATU056								
$ BU\sim b.NA_2\sim a $		UNP	 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: 1p o0980129 ZATU061								
$BULUG_3$ 126F0		PC25	 126F0	 126F0	 126F0			
35x III: 30p/5u o0980130 ZATU062								
$ BULUG_3.DU_6\sim a $		ZERO	 F222F					 F222F
o0980131								
$BUR\sim a$ 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					
1x IV: 1p o0980134 ZATU063								
$BUR\sim d$ 126F4		PC25	 126F4					
1x III: 1p o0980135 ZATU063								
BUR_2 126F5		PC25	 126F5	 126F5				
52x IV: 2p/2u; III: 35p/13u o0980136 ZATU064								

DA~a 126F6		PC25							
243x IV: 23p/5u; III: 139p/74u	o0980137	ZATU065							
DA~a.LIŠ		UNP							
1x III: 1u	o0980138								
DA~b 126F7		PC25							
6x IV: 5p	o0980139	ZATU065							
DA~c 126F8		PC25							
2x IV: 2p	o0980140	ZATU065							
DA~d 126F9		PC25							
1x IV: 1p	o0980141	ZATU065							
DAG		EDI							
	o0980142								
DAH 126FA		PC25							
26x IV: 1p; III: 21p/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: 1u	o0980151	ZATU070							
DARA ₃ ~b 12702		PC25							
1x IV: 1p	o0980152	ZATU070							

DARA ₃ ~c 12703		PC25						
7× IV: 1p; III: 4p/2u o0980153 ZATU070			12703		12703			
DARA ₃ ~c×KAR ₂ 12704		PC25						
3× III: 2p/1u o0980154 ZATU071			12704		1 F209E			
DARA ₃ ~c×(KAR ₂ , ŠE~a) 12705		PC25				12705		
1× IV: 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: 3p/3u o0980158 ZATU071			12708		2 F20A0	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 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: 1p/1u o0980162 ZATU073			1270C		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: 71p/35u	o0980170	ZATU075	12714		12714	12714	12714	12714
DI@t 12715		PC25						
3× IV: 1p; III: 1p/1u	o0980171		12715		12715			
DIB 12716		PC25						
5× IV: 2p; III: 3p	o0980172	ZATU076	12716				12716	
12717		PC25						
34× IV: 1p; III: 25p/8u	o0980173	ZATU077	12717				F20A3	
DILMUN 12718		PC25						
56× IV: 5p; III: 28p/22u	o0980174	ZATU078	12718					
DIM~a×GU		EDI						
	o0980175							
DIM~a×X		EDI						
	o0980176							
DIM~b 12719		PC25						
4× IV: 2p; III: 2p	o0980177	ZATU078	12719				12719	
DIM~c 1271A		PC25						
21× IV: 2p; III: 17p/2u	o0980178	ZATU078	1271A		1271A			
DIN 1271B		PC25						
97× IV: 32p/13u; III: 30p/20u	o0980179	ZATU079	1271B		1271B	1271B	1271B	1271B

DIN×1(N58) 1271C		PC25								
AKA: DIN+1(N57) 1x III: 1p o0980180										
DIN@t 1271D		PC25								
3x IV: 1p/1u; III: 1u o0980181 ZATU080										
DU 1271E		PC25								
481x IV: 19p/10u; III: 298p/153u o0980182 ZATU082										
DU×1(N58@t) 1271F		PC25								
AKA: DU×DIŠ CDL: DU×DIŠ 3x III: 3p o0980183										
DU@g 12720		PC25								
4x III: 1p/3u o0980184										
DU ₆ ~a 12721		PC25	 ¹ F20A6	 12721	 ² F20A7	 ³ F20A8	 F20A7	 F20A8 (b)		
15x IV: 1p; III: 13p/1u o0980185 ZATU083										
DU ₆ ~a×1(N58) 12722		PC25								
AKA: DU ₆ ~a×DIŠ CDL: DU ₆ ~a×DIŠ 1x III: 1p o0980186										
DU ₆ ~a@n		ZERO								
o0980187										
DU ₆ ~b 12723		PC25								
31x IV: 1p; III: 27p/3u o0980188 ZATU083										
DU ₆ ~c 12724		PC25								
1x IV: 1p o0980189 ZATU083										
DU ₇ 12725		PC25								
7x III: 4p/3u o0980190 ZATU084										
DU ₈ ~a 12726		PC25								
1x IV: 1p o0980191 ZATU085										
DU ₈ ~b 12727		PC25	 ¹ F20A9							
2x IV: 2p o0980192 ZATU085										

DU₈~c 12728		PC25 o0980193 ZATU085						
40× IV: 6p; III: 29p/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			1272B			1272B		
 DU₈~c×UDU~a 1272C		PC25 o0980197						
8× III: 4p/4u			1272C	1272C	1272C			
 DU₈~c×X 		ZERO o0980198						
			F2411					
DU₈~c@g 1272D		PC25 o0980199 ZATU698						
AKA: DU ₈ @g~c			1272D	1272D	1272D			
21× IV: 1u; III: 16p/4u			1					
DUB~a 1272E		PC25 o0980200 ZATU086						
155× IV: 5p/2u; III: 103p/45u			1272E	1272E	1272E	1272E	1272E	1272E
DUB~b 1272F		PC25 o0980201 ZATU086		 1 F20AB	 2 F20AC	 3 F20AD	 4 F20AE	 F20AB F20AC
69× IV: 36p/4u; III: 21p/8u			1272F	1272F	1272F	1272F	1272F	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		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 o0980207 ZATU086							
1x III: 1p									
(DUB@n~a×1(N58))~a 12735		PC25 o0980208 ZATU087							
AKA: (DUB×DIŠ)~a CDL: (DUB×DIŠ)~a 5x IV: 5p									
(DUB@n~a×1(N58))~b 12736		PC25 o0980209 ZATU087							
AKA: (DUB×DIŠ)~c CDL: (DUB×DIŠ)~c 1x III: 1p									
DUB@n~b×1(N58))~a 12737		PC25 o0980210 ZATU087							
AKA: (DUB×DIŠ)~b CDL: (DUB×DIŠ)~b 1x IV: 1p									
DUB ₂ 12738		PC25 o0980211							
2x III: 2p									
DUG~a 12739		PC25 o0980212 ZATU088							
252x IV: 29p/10u; III: 183p/30u									
DUG~a×HI		EDI o0980213							
1x III: 1u									
DUG~a×KASKAL		UNP o0980214 ZATU103							
1x III: 1p									
DUG~a×KU ₆ ~a 1273A		PC25 o0980215 ZATU104							
1x III: 1p									
DUG~a×LAM~b		UNP o0980216 ZATU106							
1x III: 1u									
DUG~a×NAGA~a 1273B		PC25 o0980217 ZATU109							
1x III: 1p									
DUG~a×U ₂ ~a 1273C		PC25 o0980218 ZATU122							
1x III: 1p									
DUG~a×U ₂ ~b 1273D		PC25 o0980219 ZATU122							
2x IV: 1p; III: 1u									
DUG~a×X		EDI o0980220							

DUG~a×1(N57) 1273E 9× IV: 1u; III: 8p		PC25 o0980221 ZATU091						
DUG~b 1273F 130× IV: 36p/12u; III: 54p/23u		PC25 o0980222 ZATU088	1 F20B1 			F20B1 1273F		
DUG~b×AB ₂ 12740 2× IV: 1p; III: 1p		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	7x III: 6p/1u	o0980237	PC25 ZATU100	1274C	1274C				
DUG~b×HI 1274D	9x IV: 2p/1u; III: 6p	o0980238	PC25 ZATU101	1 F20B4 1274D	1274D	1274D			
DUG~b×HI@g~a 1274E	7x IV: 7p	o0980239	PC25 ZATU102	1274E		1274E			
DUG~b×KASKAL 1274F	10x III: 10p	o0980240	PC25 ZATU103	1274F	1274F				
DUG~b×KU ₆ ~a 12750	2x III: 2p	o0980241	PC25 ZATU104	12750	12750				
DUG~b×KUR~a 12751	3x III: 3p	o0980242	PC25 ZATU105	12751	12751				
DUG~b×(KUR~a.X)	1x III: 1p	o0980243	PC25-bk	F2415	F2415	F2415			
DUG~b×KUR~b 12752	2x III: 1p/1u	o0980244	PC25 ZATU105	12752	12752	12752			
DUG~b×KUR@g~a 12753	4x III: 4p	o0980245	PC25 ZATU107	12753	12753	12753			
DUG~b×LAM~a 12754	4x III: 3p/1u	o0980246	PC25 ZATU106	12754	12754	12754			
DUG~b×MAŠ 12755	16x IV: 2p/2u; III: 11p/1u	o0980247	PC25 ZATU108	1 F20B5 12755	12755	12755	12755		
DUG~b×NAGA~a 12756	9x III: 6p/3u	o0980248	PC25 ZATU109	12756	12756	12756			
DUG~b×NAM ₂ 12757	1x III: 1p	o0980249	PC25	12757	12757	12757			
DUG~b×(NI~a@g.ZATU779)	1x III: 1u	o0980250	UNP	F2416					
DUG~b×SA~a 12758	6x III: 5p/1u	o0980251	PC25 ZATU110	12758	12758	12758			
DUG~b×(SA~a.GI) 12759	4x III: 4p	o0980252	PC25 ZATU111	12759		12759			

DUG~b×SI ₄ ~a 1275A 6× III: 6p		PC25 o0980253 ZATU112						
DUG~b×(SI ₄ ~a.X) 1275B 1× III: 1p		PC25-bk o0980254						
DUG~b×SIG ₂ ~a1 1275C 3× III: 3p		PC25 o0980255 ZATU113						
DUG~b×SIG ₂ ~a2 1275D 2× III: 2p		PC25 o0980256 ZATU113						
DUG~b×SIG ₇ 1275E 20× III: 19p/1u		PC25 o0980257 ZATU114						
DUG~b×SUHUR 1275F 1× III: 1p		PC25 o0980258 ZATU115						
DUG~b×SUKUD~d 1275G 1× III: 1u		UNP o0980259 ZATU116						
DUG~b×ŠAH ₂ ~a 1275H 4× III: 4p		PC25 o0980260 ZATU117						
DUG~b×ŠE~a 12760 18× IV: 5p; III: 13p		PC25 o0980261 ZATU118						
¹ DUG~b×(ŠE~a.NAM ₂) 12761 7× III: 7p		PC25 o0980262 ZATU119						
² DUG~b×TAK ₄ ~a 12762 5× III: 4p/1u		PC25 o0980263 ZATU120						
DUG~b×(TAK ₄ ~a.SA~a) 12763 2× III: 1p/1u		PC25 o0980264						
DUG~b×(TAK ₄ ~a.SAL) 12764 1× III: 1p		PC25 o0980265						
DUG~b×TI 12765 7× III: 7p		PC25 o0980266 ZATU121						
DUG~b×U ₂ ~a 12766 2× III: 1p/1u		PC25 o0980267 ZATU122						

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	 F20BB			
128× IV: 3p/3u; III: 108p/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	 12770	 F20BD			
10× IV: 5p/1u; III: 3p/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: 41p/20u; III: 131p/32u o0980284	 1 F20BE 	 12774	 12774	 F20BE 12774	 12774	 12774	
ZATU088									
DUG~c×1(N57) 12775		PC25 69× IV: 18p/7u; III: 38p/6u o0980285	 1 F20BF 2 F20CO 	 12775	 12775		 12775		
ZATU091									
DUG~c@t 12776		PC25 1× IV: 1p o0980286							
ZATU088									
DUG~d 12777		PC25 4× III: 4p o0980287	 12777			 1 F20C1	 F20C1 (e)		
ZATU088									
DUGUD 12778		PC25 1× III: 1p o0980288	 12778						
ZATU125									
DUR~a 12779		PC25 24× IV: 20p/1u; III: 2p/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: 53p/17u o0980291	 1277B				 1277B	 1277B	
ZATU127									
E~a 1277C		PC25 86× IV: 1p; III: 79p/6u o0980292	 1277C						
ZATU128									
E~b 1277D		PC25 24× IV: 1u; III: 19p/4u o0980293	 1277D						
ZATU128									
E~c 1277E		PC25 1× IV: 1p o0980294	 1277E				 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: 12p/11u; III: 442p/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						12780
E ₂ ~b 12781		PC25							
201x				12781		12781	12781	12781	12781
IV: 4p/1u; III: 104p/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: 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						
IV: 119p/47u; III: 1115p/487u	o0980309	ZATU134	2 F20C4						
			3 F20C5						
			12787				12787		

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

ENSI ₂		EDI						
	o0980325		F2257					
ERIM~a 1278E 218x IV: 45p/24u; III: 86p/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: 91p/18u		PC25-sq						
	o0980329	ZATU144	F2255	F2255	F2255			F2255
ERIN 12791 148x IV: 29p/4u; III: 91p/18u		PC25						
	o0980330	ZATU145	12791	12791	12791	12791	12791	12791
EŠDA 12792 126x IV: 24p/1u; III: 73p/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	(o)	
EŠGAR 12794 22x IV: 6p; III: 13p/3u		PC25						
	o0980333	ZATU149	12794	12794		12794		
EZEN~a 12795 22x IV: 9p/3u; III: 6p/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: 1p		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		PC25						
	o0980338	ZATU152	12798	12798		12798		

EZEN~a~KAŠ~b 12799		PC25 o0980339							
2x III: 2p									
EZEN~a~KI 1279A		PC25 o0980340							
AKA: EZEN~a~KI 1x III: 1p									
EZEN~a~LA~e		EDI o0980341							
1279B		PC25 o0980342 ZATU153							
1x IV: 1p									
EZEN~a~NIM~b2 1279C		PC25 o0980343 ZATU154							
2x IV: 1p; III: 1u									
EZEN~a~RAD~a 1279D		PC25 o0980344 ZATU155							
1x IV: 1p									
EZEN~a~SAG		UNP o0980345							
1x III: 1u									
EZEN~a~SU~a 1279E		PC25 o0980346 ZATU156							
8x III: 5p/3u									
EZEN~a~(U ₂ ~b.A) 1279F		PC25 o0980347 ZATU157							
5x IV: 1u; III: 1p/3u									
EZEN~a~U ₄ 127A0		PC25 o0980348							
1x IV: 1p									
EZEN~a~X		PC25-bk o0980349							
2x IV: 1p; III: 1u									
EZEN~b 127A1		PC25 o0980350 ZATU150							
87x IV: 1p; III: 68p/18u									
EZEN~b~ŠE~a@t 127A2		PC25 o0980351							
23x III: 19p/4u									
EZEN~b~6(N57) 127A3		PC25 o0980352 ZATU411							
1x III: 1p									
EZEN~b@t 127A4		PC25 o0980353 ZATU150							
AKA: EZEM~c EZEN~c									
9x IV: 3p; III: 2p/3u									

EZEN~c		DEL							
	o0982242	ZATU150							
EZINU~a	127A5	PC25							
12× IV: 1u; III: 5p/6u	o0980354	ZATU158							
EZINU~b	127A6	PC25							
1× III: 1p	o0980355	ZATU158							
EZINU~c	127A7	PC25							
6× IV: 2u; III: 4p	o0980356	ZATU158							
EZINU~d	127A8	PC25							
10× IV: 4p/1u; III: 4p/1u	o0980357	ZATU158							
GA~a	127A9	PC25							
339×	IV: 38p/15u; III: 193p/93u	o0980358	ZATU159						
GA~a.ZATU753		PC25-sq							
85×	IV: 1u; III: 63p/21u	o0980359	ZATU161						
GA~a×X		ZERO							
o0980360									
GA~b	127AA	PC25							
25×	III: 25p	o0980361	ZATU159						
GA~c	127AB	PC25							
4×	III: 4p	o0980362	ZATU159						
GA~c×KASKAL	127AC	PC25							
2×	III: 2p	o0980363							
GA~c×1(N14)	127AD	PC25							
1×	III: 1p	o0980364	ZATU160						
GA ₂ ~a1	127AE	PC25							
111×	IV: 11p/2u; III: 78p/18u	o0980365	ZATU162						

 GA₂~a1×A 127AF 3x IV: 1p; III: 2p		o0980366	PC25		127AF		127AF			
 GA₂~a1×E₂~a 127B0 AKA: GA ₂ ~a×E ₂ ~a 1x III: 1p		o0980367	PC25		127B0					
 GA₂~a1×EN~a 4x III: 3u	o0980368	UNP		F2527						
 GA₂~a1×EN~b 127B1 1x IV: 1p	o0980369	PC25		127B1		127B1		127B1		
 GA₂~a1×GEŠTU~a 127B2 1x III: 1p	o0980370	PC25		127B2						
 GA₂~a1×GEŠTU~c3 127B3 1x III: 1p	o0980371	PC25		127B3		127B3				
 GA₂~a1×GEŠTU~c5 127B4 10x III: 10p	o0980372	PC25		127B4		127B4				
 GA₂~a1×GIR~a 127B5 5x III: 5p	o0980373	ZATU167	PC25		127B5					
 GA₂~a1×(GIR~a.KU₆~a) 127B6 1x III: 1p	o0980374	PC25		127B6						
 GA₂~a1×GiŠ@t 127B7 1x IV: 1p	o0980375	ZATU168	PC25		127B7		127B7			
 GA₂~a1×GU₄ o0980376		EDI		F24F8						
 GA₂~a1×HAL 127B8 1x IV: 1p	o0980377	PC25		127B8		127B8				
 GA₂~a1×HI 127B9 5x IV: 1p/2u; III: 2p	o0980378	ZATU170	PC25		127B9		127B9		127B9	
 GA₂~a1×(HI.SUHUR) 1x IV: 1u	o0980379	ZATU171	UNP		F2421					
 GA₂~a1×KU₃~a 127BA 1x III: 1p	o0980380	ZATU172	PC25		127BA		127BA			
 GA₂~a1×KU₆~a 127BB 13x IV: 3p/1u; III: 8p/1u	o0980381	ZATU173	PC25		127BB		127BB		127BB	
 GA₂~a1×(KU₆~a+KU₆~a) 127BC CDL: GA ₂ ~a1×(KU ₆ ~a.KU ₆ ~a) 1x III: 1p	o0980382	ZATU174	PC25		127BC					

GA ₂ ~a1×LAGAB~b 127BD 1x IV: 1p	o0980383	PC25							
GA ₂ ~a1×MAŠ 127BE 1x III: 1p	o0980384	ZATU176	PC25						
GA ₂ ~a1×NAGA~a 1x III: 1u	o0980385	ZATU177	UNP						
GA ₂ ~a1×NIM~b1 AKA: GA ₂ ~a2×NIM~b1 CDLI: GA ₂ ~a2×NIM~b1 1x III: 1u	o0980386	UNP							
GA ₂ ~a1×NUN~a o0980387		EDI							
GA ₂ ~a1×PAD~b 127BF 1x III: 1p	o0980388	PC25							
GA ₂ ~a1×PAP~a 127C0 1x III: 1p	o0980389	PC25							
GA ₂ ~a1×SU~a 127C1 1x III: 1p	o0980390	PC25							
GA ₂ ~a1×SUHUR 127C2 5x IV: 4p; III: 1p	o0980391	ZATU179	PC25						
GA ₂ ~a1×SUKUD 127C3 9x IV: 5p/2u; III: 2u	o0980392	ZATU180	PC25						
GA ₂ ~a1×((SUKUD+SUKUD)-a) AKA: GA ₂ ~a1×(SUKUD&SUKUD)-a CDLI: GA ₂ ~a1×((SUKUD&SUKUD)-a) 1x IV: 1u	o0980393	UNP							
GA ₂ ~a1×((SUKUD+SUKUD)-b) AKA: GA ₂ ~a1×(SUKUD&SUKUD)-b CDLI: GA ₂ ~a1×((SUKUD&SUKUD)-b) 1x III: 1u	o0980394	UNP							
GA ₂ ~a1×SUMAŠ 127C4 1x IV: 1p	o0980395	ZATU181	PC25						
GA ₂ ~a1×ŠA 127C5 1x III: 1p	o0980396	PC25							
GA ₂ ~a1×TI 127C6 3x III: 3p	o0980397	PC25							
GA ₂ ~a1×U ₄ 127C7 13x III: 9p/4u	o0980398	ZATU183	PC25						
GA ₂ ~a1×X 14x IV: 4p; III: 9p/1u	o0980399	PC25-bk							

GA ₂ ~a1x1(N14) 127C8 3x IV: 2p; III: 1p		PC25 o0980400 ZATU182							
GA ₂ ~a1x1(N57) 127C9 3x IV: 3p		PC25 o0980401 ZATU164							
GA ₂ ~a2 127CA 37x III: 13p/24u		PC25 o0980403 ZATU162							
GA ₂ ~a2xGU ₄ 127CB 4x III: 3p/1u		PC25 o0980404							
GA ₂ ~a2xNI~a 127CC 1x IV: 1p		PC25 o0980405 ZATU178							
GA ₂ ~a2xNI~b 1x III: 1u		UNP o0980406 ZATU178							
GA ₂ ~a2xSUHUR 127CD 1x IV: 1p		PC25 o0980407 ZATU179							
GA ₂ ~a2xŠE ₃ 127CE 3x III: 3p		PC25 o0980408							
GA ₂ ~a2x(ŠE ₃ ,GU ₄) 127CF AKA: GA ₂ ~a2x(GU ₄ ,ŠE ₃) CDL: GA ₂ ~a2x(GU ₄ ,ŠE ₃) 10x III: 9p/1u		PC25 o0980409 ZATU169							
GA ₂ ~a2xX 1x III: 1p		PC25-bk o0980410							
GA ₂ ~a2x3(N57) 1x III: 1u		UNP o0980411							
GA ₂ ~a3 127D0 1x III: 1p		PC25 o0980412 ZATU162							
GA ₂ ~a3xX 1x IV: 1p		PC25-bk o0980413							
GA ₂ ~a4 127D1 1x IV: 1p		PC25 o0980414 ZATU162							
GA ₂ ~b 127D2 18x IV: 9p/1u; III: 8p		PC25 o0980415 ZATU162							
GA ₂ ~bxDUB~a 127D3 11x IV: 1p/2u; III: 5p/3u		PC25 o0980416 ZATU166	 1 F20D9	 F20D9					
GA ₂ ~bxDUB~b 127D4 1x IV: 1p		PC25 o0980417 ZATU166							

GA ₂ ~b×KU ₃ ~a		UNP						
1× III: 1u	o0980418	ZATU172	F242A					
GA ₂ ~b×KU ₆ ~a		PC25						
127D5				127D5				
1× III: 1p	o0980419	ZATU173						
GA ₂ ~b×NUN~b		UNP						
1×	o0980420		F252E					
GA ₂ ~b×ZATU659		PC25						
127D6				127D6				
1× III: 1p	o0980421							
GA ₂ ~c		PC25						
127D7				127D7				
1× III: 1p	o0980422	ZATU162						
GA'AR~a1		PC25						
127D8								
44× IV: 1u; III: 42p/1u	o0980423	ZATU184		127D8	127D8			
GA'AR~a2		PC25						
127D9								
17× IV: 1p/1u; III: 11p/4u	o0980424	ZATU184		127D9				
GA'AR~b1		PC25						
127DA								
2× IV: 1p; III: 1p	o0980425	ZATU184		127DA	127DA			
GA'AR~b2		PC25						
127DB								
3× IV: 2p; III: 1p	o0980426	ZATU184		127DB				
GADA~a		PC25						
127DC								
122× IV: 12p/11u; III: 68p/30u	o0980427	ZATU186		127DC	127DC	127DC	127DC	127DC
GADA~b		UNP						
1× IV: 1u	o0980428	ZATU186	F242B					
GADA~b@g		PC25						
127DD								
8× IV: 2p/4u; III: 1p/1u	o0980429	ZATU187		127DD				
GAL~a		PC25						
127DE								
1236× IV: 54p/12u; III: 901p/261u	o0980430	ZATU188		127DE	127DE	127DE	127DE	127DE
GAL~b		PC25						
127DF								
11× IV: 3p/2u; III: 5p	o0980431	ZATU188		127DF	127DF			
GALGA~a		PC25						
127E0								
12× III: 12p	o0980432	ZATU189		127E0	127E0			
GALGA~b		UNP						
3× III: 3u	o0980433	ZATU189	F242C					

GAN~a 127E1		PC25	 1 F20DA					
50× IV: 2p; III: 39p/9u	o0980434	ZATU190						
GAN~b 127E2		PC25	 1 F20DB	 2 F20DC	 3 F20DD		 F20DB	 F20DB
40× IV: 4p/1u; III: 27p/8u	o0980435	ZATU190						
GAN~c 127E3		PC25	 127E3	 127E3	 127E3	 127E3		 127E3
40× III: 24p/16u	o0980436	ZATU190	 1 F20DE					
 GAN~cxDIN 127E4		PC25	 127E4	 127E4	 127E4 (b)			
1× III: 1p	o0980437							
 GAN~cxHI 127E5		PC25	 127E5	 127E5				
1× IV: 1p	o0980438							
 GAN~c(HL.DIN) 127E6		PC25	 127E6	 127E6				
2× IV: 2p	o0980439	ZATU191						
 GAN~cxAŠ~c 127E7		PC25	 127E7	 127E7				
2× III: 2p	o0980440							
 GAN~cx(KUR~a.A) 127E8		PC25	 127E8	 127E8				
1× III: 1p	o0980441							
 GAN~cxLAGAB~b 127E9		PC25	 127E9	 127E9				
2× IV: 1p; III: 1p	o0980442	ZATU192						
 GAN~cxNE~a 		UNP	 F242D	 F242D				
3× III: 3u	o0980443	ZATU193						
 GAN~cxSIG₇ 127EA		PC25	 127EA	 127EA				
1× III: 1p	o0980444							
 GAN~cxŠE~a 		UNP	 F242F	 F242F				
4× III: 4u	o0980445	ZATU194						
 GAN~cxŠE₃@t 		UNP	 F2430	 F2430				
1× III: 1u	o0980446							
 GAN~cxX 		PC25-bk	 F242E	 F242E				
3× IV: 1p; III: 1p/1u	o0980447							
 GAN~cxZATU777 127EB		PC25	 127EB	 127EB				
1× III: 1p	o0980448							

GAN~c×(4(N57).GAR) 127EC 1x III: 1p		PC25 o0980449	 127EC						 127EC
GAN~d o0980450	EDI		 F24D2						
GAN~d×GEŠTU~a 127ED 1x III: 1p		PC25 o0980451	 127ED						
GAN~d×HI o0980452	EDI		 F24FA						
GAN ₂ 127EE 270x IV: 6p/2u; III: 189p/65u	PC25 o0980453	ZATU195	 127EE	 127EE	 127EE	 127EE	 127EE		
GAR 127EF 373x IV: 44p/28u; III: 227p/73u	PC25 o0980454	ZATU196	 127EF	 127EF	 127EF	 127EF	 127EF		
GAR@g~a 127F0 4x IV: 4p	PC25 o0980455	ZATU197	 127F0	 127F0		 127F0			
GAR@g~b 127F1 3x III: 2p/1u	PC25 o0980456	ZATU197	 127F1	 127F1		 127F1			
GAR@g~c 127F2 3x III: 2p/1u	PC25 o0980457	ZATU197	 127F2	 127F2		 127F2			
GAR ₃ 127F3 29x IV: 29p	PC25 o0980458	ZATU198	 127F3	 127F3		 127F3			
GARA ₂ ~a 127F4 55x IV: 2u; III: 37p/16u	PC25 o0980459	ZATU199	 127F4	 127F4	 127F4	 127F4	 127F4		
GARA ₂ ~b 2x III: 2u	UNP o0980460	ZATU199	 F2431	 F2431					
GAZI 127F5 15x III: 14p/1u	PC25 o0980461	ZATU200	 127F5	 127F5	 127F5				
GEŠTIN~a 127F6 8x III: 6p/2u	PC25 o0980462	ZATU202	 127F6	 127F6	 127F6				
GEŠTIN~c o0980463	EDI		 F24D3	 F24D3					
GEŠTIN~c×X o0980464	EDI		 F24FB	 F24FB					
GEŠTIN~d 127F7 1x III: 1p	PC25 o0980465	ZATU202	 127F7	 127F7					 127F7

GEŠTIN~e 127F8		PC25							
1× III: 1p	o0980466	ZATU202							
GEŠTU~a 127F9		PC25							
26× IV: 9p/2u; III: 9p/6u	o0980467	ZATU203	 1 F20DF 2 F20E0	 1 F20DF 2 F20E0	 F20E0	 127F9			
GEŠTU~a~ŠE~a@t 127FA		PC25							
1× III: 1p	o0980468								
GEŠTU~b 127FB		PC25							
85× IV: 27p/7u; III: 20p/24u	o0980469	ZATU203							
GEŠTU~c3 127FC		PC25							
9× IV: 2p/1u; III: 6p	o0980470	ZATU203	 1 F20E1	 1 F20E1					
GEŠTU~c5 127FD		PC25							
2× III: 2p	o0980471	ZATU203							
GI 127FE		PC25	 1 F20E2	 127FE	 127FE	 F20E2	 127FE	 127FE	
667× IV: 48p/8u; III: 427p/182u	o0980472	ZATU204	 1 F20E2	 127FE	 127FE	 F20E2	 127FE	 127FE	
GIxA 127FF		PC25							
AKA: GI+A 1× III: 1p	o0980473								
GIxGIŠ@t 12800		PC25							
1× III: 1p	o0980474	ZATU207							
GIxKU~b1 12801		PC25							
6× III: 6p	o0980475								
GIxLAGAB~a 12802		PC25							
3× IV: 2p; III: 1u	o0980476	ZATU208							
GIxNAM ₂ 12803		PC25							
2× IV: 1p/1u	o0980477	ZATU209							
GIxSIG ₂ ~d1 12804		PC25							
2× IV: 2p	o0980478	ZATU210							
GIxŠE ₃ 12805		PC25							
5× IV: 1p; III: 4p	o0980479								

$ GI \times X $		UNP						
1× IV: 1u	o0980480		F2432					
$ GI \times 1(N14) $ 12806		PC25						
1× IV: 1p	o0980481	ZATU211						
$ GI \times 1(N58@t) $ 12807		PC25						
AKA: $ GI \times 1(N58)@t $ CDLI: $ GI \times 1(N58)@t $ 2× III: 2p	o0980482							
$ GI \& GI $ 12808		PC25						
83× IV: 1p; III: 63p/19u	o0980483		12808		12808	12808	12808	12808
$ (GI \& GI) \times GI \check{S} @ t $ 12809		PC25						
1× IV: 1p	o0980484		12809					
$ (GI \& GI) \times \check{S} E_3 $ CDLI: $ (GI \& GI) \times \check{S} E_3 $ 2× III: 2u	o0980485	ZATU206	UNP					
$ (GI \& GI) \times X $		ZERO						
	o0980486		F2434					
$ GI \& GI \& GI $ 1280A		PC25						
2× III: 2p	o0980487		1280A					
$GI @ t$ 1280B		PC25						
1× IV: 1p	o0980488		1280B					
$GI_4 \sim a$ 1280C		PC25						
31× IV: 1p; III: 20p/10u	o0980489	ZATU212		1280C	1280C	1280C	1280C	1280C
$ GI_4 \sim a \& A $ 1280D		PC25						
1× III: 1p	o0980490		1280D					
$ GI_4 \sim a \& GI_4 \sim a $		UNP						
1× III: 1u	o0980491		F2435					
$GI_4 \sim b$ 1280E		PC25						
8× IV: 6p/1u; III: 1p	o0980492	ZATU212		1280E		1280E		
$ GI_4 \sim b \& GI_4 \sim b $ 1280F		PC25						
1× IV: 1p	o0980493		1280F					
GI_6 12810		PC25						
AKA: $GI_6 \sim a$ 129× IV: 14p/1u; III: 74p/38u	o0980494	ZATU213		12810	12810	12810	12810	12810

GIBIL 12811 98x IV: 2p; III: 79p/17u		PC25 o0980495 ZATU214		12811				12811		12811		12811
GIBIL@t 1x III: 1u		UNP o0980496		F2436								
GIBIL₆ 2x III: 2p		PC25-sq o0980497 ZATU215		1 F20E4 F20E5				F20E5				
GIG o0980498		EDI		F223D								
GIL o0980499		EDI		F24D4								
GIR~a 12812 22x IV: 1p; III: 14p/6u		PC25 o0980500 ZATU216		12812				12812				
 GIR~a.KU₆~a 1x III: 1p		PC25-sq o0980501		F223E								
GIR~b 12813 16x IV: 2p; III: 10p/4u		PC25 o0980502 ZATU216		1 F20E6 12813				F20E6		F20E6		
 GIR~b.GIR~b 4x III: 4p		PC25-sq o0980503		F223F				F223F				
GIR~c 12814 3x III: 3p		PC25 o0980504 ZATU216		12814				12814				
GIR~d 1x IV: 1u		UNP o0980505 ZATU216		F2437								
GIR₂~a 12815 71x IV: 4p/2u; III: 59p/6u		PC25 o0980506 ZATU218		12815				12815		12815		
GIR₂~b o0980507 ZATU218		ZERO		F2438								
GIR₃~a 12816 23x IV: 15p/1u; III: 5p/2u		PC25 o0980508 ZATU219		12816				12816		12816		
 GIR₃~a×ŠE~b 12817 1x IV: 1p		PC25 o0980509 ZATU220		12817								
GIR₃~b 12818 1x IV: 1p		PC25 o0980510 ZATU219		12818								

GIR ₃ ~c 12819		PC25						
112x IV: 5p/1u; III: 57p/47u	o0980511	ZATU219		12819		12819		12819
GIR ₃ ~c×KAR ₂ ~b AKA: GIR ₃ ~c×KAR ₂ CDLI: GIR ₃ ~c×KAR ₂ 3x III: 3u	o0980512	UNP						
GIR ₃ ~c×ŠE ₃ 1281A	o0980513	PC25						
2x III: 2p			1281A	1281A	1281A			
GIR ₃ @g~a 1281B	o0980514	PC25						
4x IV: 3p; III: 1p	o0980514	ZATU221	1281B	1281B	1281B			
GIR ₃ @g~b 1281C	o0980515	PC25						
76x IV: 1p; III: 68p/7u	o0980515	ZATU221	1281C	1281C			1281C	1281C
GIR ₃ @g~c 1281D	o0980516	PC25						
AKA: GIR ₃ ~c@g 11x IV: 1p; III: 4p/6u	o0980516	ZATU221	1281D	1281D			1281D	1281D
GIR ₄	o0980517	EDI						
GISAL~a 1281E	o0980518	PC25						
1x IV: 1p	o0980518	ZATU222	1281E	1281E	1281E	1281E		
GISAL~b 1281F	o0980519	PC25						
2x IV: 2p	o0980519	ZATU222	1281F	1281F	1281F	1281F		
GIŠ 12820	o0980520	PC25						
405x IV: 8p/4u; III: 357p/36u	o0980520	ZATU223	12820	12820	12820	12820	12820	12820
GIŠ.TE	o0980521	PC25-sq						
27x III: 24p/3u	o0980521	ZATU226	F2242	F2242			F2242	F2242
(GIŠ×(DIN.DIN))~a 12821	o0980522	PC25						
4x III: 4p	o0980522	ZATU224	12821	12821	12821			
(GIŠ×(DIN.DIN))~b 12822	o0980523	PC25						
1x IV: 1p	o0980523	ZATU224	12822	12822				
(GIŠ×(DIN.DIN))~c 12823	o0980524	PC25						
1x III: 1p	o0980524	ZATU224	12823	12823	12823			
(GIŠ×ŠU ₂)~a 12824	o0980525	PC25						
AKA: GIŠ×ŠU ₂ ~a CDLI: GIŠ×ŠU ₂ ~a 42x IV: 1p; III: 29p/12u	o0980525	ZATU225	12824	12824	12824		12824	12824

 GIŠ×ŠU₂)~b 12825		PC25							
AKA: GIŠ×ŠU ₂ ~b CDLI: GIŠ×ŠU ₂ ~b 16x III: 16p	o0980526 ZATU225			12825		12825			
GIŠ~v CDLI: GIŠ~x	o0980527	EDI							
GIŠ@t 12826	o0980528 ZATU227	PC25							
37x IV: 7p/1u; III: 27p/2u				12826		12826	12826	12826	12826
 GIŠ@t.E₂~a 	o0980529	EDI							
GIŠ₃~a 12827	o0980530 ZATU228	PC25							
14x III: 11p/2u				12827					
 GIŠ₃~a&GIŠ₃~a 12828	o0980531	PC25							
3x III: 2p/1u				12828		12828			
GIŠ₃~b 12829	o0980532 ZATU228	PC25							
54x III: 18p/35u				12829		12829		12829	
GIŠGAL 1282A	o0980533 ZATU229	PC25							
10x III: 9p/1u				1282A		1282A			
GIŠIMMAR~a1 1282B	o0980534 ZATU230	PC25							
6x IV: 3p/1u; III: 2p				1282B		1282B			
GIŠIMMAR~a2 1282C	o0980535 ZATU230	PC25							
9x IV: 1p; III: 5p/1u				1282C		1282C			
GIŠIMMAR~a3 1282D	o0980536 ZATU230	PC25							
2x III: 1p/1u				1282D		1282D			F20E8
1 F20E8									
GIŠIMMAR~b1 1282E	o0980537 ZATU230	PC25							
45x IV: 3p; III: 37p/4u				1282E		1282E	F20E9	F20E9	F20E9
				1282E		1282E			
GIŠIMMAR~b2 1282F	o0980538 ZATU230	PC25							
1x IV: 1p				1282F					
GIŠIMMAR~b3 12830	o0980539 ZATU230	PC25							
2x IV: 1p; III: 1p				12830			12830		

GIZZAL~v		UNP						
CDL: GIZZAL~x 1x III: 1u	o0980540	ZATU231						
GU 12831		PC25						
AKA: GU~a 101x IV: 2p/2u; III: 54p/43u	o0980541	ZATU232						
GU ₂ 12832		PC25						
2x III: 2p	o0980542	ZATU233						
GU ₄ 12833		PC25						
201x IV: 52p/4u; III: 107p/37u	o0980543	ZATU234						
GU ₄ ,ZATU755~b		PC25-sq						
AKA: GU ₄ ,ZATU755~a CDL: GU ₄ ,ZATU755~a 1x IV: 1p	o0980544							
GU ₄ *1(N58)		ZERO						
CDL: GU ₄ *1N58	o0982249							
GU _{4@g} 12834		PC25						
5x III: 3p/2u	o0980546							
GU ₇ 12835		PC25						
314x IV: 6p/4u; III: 246p/58u	o0980547	ZATU235						
GUB ₃ ~a 12836		PC25						
11x IV: 1p/4u; III: 3p/3u	o0980548	ZATU236						
GUB ₃ ~b 12837		PC25						
2x III: 1p/1u	o0980549	ZATU236						
GUB ₃ ~c 12838		PC25						
3x IV: 1p; III: 2p	o0980550	ZATU236						
GUB ₃ ~d 12839		PC25						
1x III: 1p	o0980551	ZATU236						
1283A		PC25						
AKA: GUG ₂ ~a 190x IV: 36p/5u; III: 113p/36u	o0980552	ZATU237						

GUG ₂ ×SILA ₃ ~a 1283B		PC25 1× IV: 1p o0980553 ZATU238		1283B					
GUG ₂ ×ŠITA~a1 1× III: 1u		UNP o0980554		F24FC					
GUG ₂ ×TUR 1283C		PC25 1× IV: 1p o0980555 ZATU239		1283C					
GUG ₂ @t		ZERO o0980556		F243A					
GUUKKAL~a 1283D		PC25 28× IV: 27p; III: 1p o0980557 ZATU240		1283D		1283D			
GUUKKAL~a.HI@g~a 2× IV: 2p		PC25-sq o0980558 ZATU241		F2245		F2245			
GUUKKAL~b 1283E		PC25 2× IV: 2p o0980559 ZATU240		1283E		1283E			
GUUKKAL~c 1283F		PC25 9× III: 6p/1u o0980560 ZATU240		1283F		1283F			
GUUKKAL~d 12840		PC25 1× IV: 1p o0980561 ZATU240		12840		12840			
GUL 12841		PC25 28× IV: 4p; III: 21p/3u o0980562 ZATU242		12841		12841		12841	12841
GUM~a 12842		PC25 16× IV: 14p/1u; III: 1p o0980563 ZATU243		12842		12842			
GUM~b 12843		PC25 41× IV: 3p/1u; III: 27p/10u o0980564 ZATU243		12843 1 F20F1		F20F1		12843 F20F1	12843
GUM~b@n 12844		PC25 1× III: 1p o0980565 ZATU244		12844 1 F20F2		12844 1 F20F2			
GUN ₃ ~a 12845		PC25 13× IV: 1p; III: 7p/5u o0980566 ZATU245		12845		12845		12845	
GUN ₃ ~b 12846		PC25 10× IV: 1u; III: 6p/3u o0980567 ZATU245		12846		12846			
GUR 12847		PC25 2× III: 2p o0980568 ZATU246		12847		12847			

GURUŠ~a 12848		PC25	 1 F20F3 2 F20F4		 F20F4	 F20F3	 12848	 F20F3	 F20F3
64x IV: 23p/2u; III: 24p/15u	o0980569	ZATU247							
GURUŠ~a×2(N14) 12849		PC25							
4x IV: 2p/2u	o0980570	ZATU248							
GURUŠ~b 1284A		PC25							
4x IV: 4p	o0980571	ZATU247							
GURUŠ~b×2(N14) 1284B		PC25							
2x IV: 1p/1u	o0980572	ZATU248							
GURUŠ~c×2(N14) 1284C		PC25							
1x III: 1p	o0980573	ZATU248							
GURUŠDA 1284D		PC25							
AKA: GURUŠDA~a 80x IV: 35p/3u; III: 31p/8u	o0980574	ZATU249							
HAL 1284E		PC25							
90x IV: 2p/2u; III: 67p/18u	o0980575	ZATU250							
HALUB 1284F		PC25							
11x III: 11p	o0980576	ZATU251							
HAŠHUR 12850		PC25							
112x IV: 42p/9u; III: 47p/14u	o0980577	ZATU252							
HAŠHUR×MA 12851		PC25							
3x IV: 2p; III: 1p	o0980578	ZATU253							
HI 12852		PC25							
AKA: HI~a 349x IV: 13p/4u; III: 223p/105u	o0980579	ZATU254							
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	 F2246	 F2246			 F2246		
3x III: 3p	o0980581								

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			F24FD							
o0980584										
HI×1(N57)	12853	PC25				12853			12853	
12× IV: 1p; III: 9p/2u	o0980585									
(HI×1(N57)).(HI×1(N57))		PC25-sq	 F20F8							
CDLI: (HI×1(N57))&(HI+1(N57))			 1F20F9							
1× III: 1p	o0980586									
HI×1(N57@t)	12854	PC25				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	12855	PC25				12855		12855		12855
AKA: HI@g HI~a@g										
176× IV: 9p;										
III: 133p/33u	o0980590	ZATU258								
HI@g~b	12856	PC25				12856		12856		12856
12× IV: 2p; III: 8p/2u	o0980591	ZATU258								
HI@g~c	12857	PC25				12857				
1× III: 1p	o0980592	ZATU258								
HUB ₂		EDI								
	o0980593		F24D7							
I	12858	PC25				12858		12858		12858
43× IV: 1p;										
III: 23p/19u	o0980594	ZATU259								
IB~a	12859	PC25				12859		12859		12859
393× IV: 44p/9u;										
III: 224p/110u	o0980595	ZATU260	 1F20FA	 2F0FB						
IB~a@n	1285A	PC25				1285A				
1× III: 1p	o0980596									

IB~b 1285B		PC25							
9× IV: 7p; III: 1p	o0980597	ZATU260							
IB~c 1285C		PC25							
5× III: 5p	o0980598	ZATU260							
IDIGNA 1285D		PC25		 F20FC 1		 F20FC 1285D			
57× IV: 10p; III: 36p/11u	o0980599	ZATU261				 F20FC 1285D			
IG~a 1285E		PC25							
2× III: 2p	o0980600								
IG~b 1285F		PC25							
2× III: 1p/1u	o0980601								
IGI		EDI							
		o0980602							
IL 12860		PC25							
10× III: 8p/2u	o0980603	ZATU262							
ILDUM~a		PC25-sq							
1× IV: 1p	o0980604	ZATU263							
ILDUM~b		PC25-sq							
4× III: 4p	o0980605	ZATU263							
IM~a 12861		PC25							
97× III: 65p/32u	o0980606	ZATU264							
IM~a@g		EDI							
		o0980607							
IM~b 12862		PC25							
13× III: 11p/2u	o0980608	ZATU264							
IN~b 12863		PC25							
29× IV: 2p/1u; III: 21p/5u	o0980609	ZATU265		 1 F20FD	 1 F20FD	 1 F20FD			 1 F20FD
IN~d 12864		PC25							
1× III: 1p	o0980610	ZATU266							
IR~a 12865		PC25							
47× IV: 2p; III: 42p/3u	o0980611	ZATU267							
 IR~a.GA₂~a1 		PC25-sq							
1× III: 1p	o0980612								
IR~b 12866		PC25							
2× III: 2p	o0980613	ZATU267							

IR~c 12867		PC25 o0980614 ZATU267							
1× IV: 1p									
IR~d 12868		PC25 o0980615 ZATU267							
1× IV: 1p									
IR ₁₁		PC25-sq o0980616 ZATU268							
9× III: 5p/4u			1 F20FF						
			— F20FE						
IRHAN		PC25-bk o0980617 ZATU269							
1× III: 1p			F243D						
IŠ-a 12869		PC25 o0980618 ZATU270	1 F2100						
			— 12869						
			2 F2101						
			3 F2102						
26× IV: 3p; III: 19p/4u									
IŠ-b 1286A		PC25 o0980619 ZATU270	1 1286A						
			2 F2103						
			3 F2104						
			4 F2105						
			5 F2106						
74× IV: 5p/1u; III: 48p/19u			5 F2107						
IŠ-c 1286B		PC25 o0980620 ZATU270							
2× IV: 1p; III: 1u			1286B				1286B		
KA~a 1286C		PC25 o0980621 ZATU271							
97× IV: 5p/1u; III: 48p/43u			1286C		1286C	1286C	1286C	1286C	
KA~a.ŠE~a		PC25-sq o0980622 ZATU274							
1× III: 1p			1 F2108						
			1 F2109						
KA~a×SAR~a 1286D		PC25 o0980623 ZATU273							
1× III: 1p			1286D		1286D				
KA ₂ ~a 1286E		PC25 o0980624 ZATU275							
13× IV: 2p; III: 9p/2u			1286E						

KA ₂ ~b 1286F		PC25							
6× III: 4p/2u	o0980625	ZATU275		1286F					
KA ₂ ~c		UNP							
1× IV: 1u	o0980626	ZATU275		F243E					
KA ₂ ~d		EDI							
		o0980627		F24DA					
KA ₂ ~d×LAM~b 12870		PC25							
AKA: KA ₂ ~LAM CDLI: KA ₂ ~LAM 20× IV: 2p; III: 17p/1u		o0980628	ZATU276	1 F210A	12870	12870 (o)	12870 (o)	12870 (o)	
KAB 12871		PC25							
AKA: TUKU 146× IV: 36p/9u; III: 65p/30u		o0980629	ZATU277	12871	12871	12871	12871	12871	12871
KAB×1(N58)		UNP							
AKA: TUKU+DIŠ 3× IV: 1u; III: 2u		o0980630	ZATU278	F243F					
KAD ₄ ~a 12872		PC25							
9× III: 9p		o0980631	ZATU279	12872	12872	12872			
KAD ₄ ~b 12873		PC25							
2× III: 2p		o0980632	ZATU279	12873	12873	12873			
KAD ₄ ~c1		UNP							
1× IV: 1u		o0980633	ZATU279	F2440					
KAD ₄ ~c2		UNP							
1× IV: 1u		o0980634	ZATU279	F2441					
KAK~a 12874		PC25							
51× IV: 4p; III: 36p/11u		o0980635	ZATU280	12874	12874	12874	12874	12874	
KAK~a.GA ₂ ~a1		PC25-sq							
3× III: 3p		o0980636		F2248		F2248			
KAK~b 12875		PC25							
1× IV: 1p		o0980637	ZATU280	12875	12875		12875		
KAL~a 12876		PC25							
5× III: 5p		o0980638	ZATU281	12876	12876	12876			
KAL~b1 12877		PC25							
2× III: 2p		o0980639	ZATU281	12877	12877	12877		12877	
1 F210B									
KAL~b2 12878		PC25							
15× III: 8p/7u		o0980640	ZATU281	12878	12878	12878			

KALAM~a 12879		PC25							
29× IV: 2p/1u; III: 17p/9u	o0980641	ZATU282	12879			12879	12879	12879	12879
KALAM~b 1287A		PC25							
54× IV: 3u; III: 31p/20u	o0980642	ZATU282	1287A				1287A	1287A	1287A
KALAM~c 1287B		PC25							
1× III: 1p	o0980643	ZATU282	1287B						
KALAM~d 1287C		PC25							
1× III: 1p	o0980644	ZATU282	1287C						
KALAM~e 1287D		PC25							
1× III: 1p	o0980645	ZATU282	1287D						
KALAM~f 1287E		PC25							
1× III: 1p	o0980646	ZATU282	1287E						
KALAM~g 1287F		PC25							
6× III: 6p	o0980647	ZATU282	1287F						1287F
KALAM~h 12880		PC25							
3× III: 2p	o0980648	ZATU282	12880						12880
KALAM~h2 12881		PC25							
1× III: 1p	o0980649	ZATU282	12881						12881
KAR		PC25-sq							
7× IV: 2u; III: 4p/1u	o0980650	ZATU283	F2272	F2272	F2272				
KAR ₂ ~a 12882		PC25							
63× IV: 1p/1u; III: 51p/10u	o0980651	ZATU284	12882		12882	12882		12882	
KAR ₂ ~b 12883		PC25							
11× IV: 1p; III: 8p/2u	o0980652	ZATU284	12883		12883	12883			
KASKAL 12884		PC25							
58× IV: 6p/1u; III: 28p/22u	o0980653	ZATU285	12884		12884	12884	12884	12884	12884
KASKAL@g		UNP							
1× III: 1u	o0980654		F2442						
KAŠ~a 12885		PC25		¹ F210C					
122× IV: 15p/4u; III: 94p/9u	o0980655	ZATU286	12885		12885	12885	12885	12885	12885
KAŠ~b 12886		PC25		¹ F210D					
126× IV: 32p/7u; III: 65p/21u	o0980656	ZATU286	12886		12886			12886	12886

KAŠ~b×ŠE~a@t 12887		PC25						
AKA: KAŠ~b×ŠE~a CDLI: KAŠ~b×ŠE~a 2x IV: 2p			12887					
	o0980657	ZATU288						
KAŠ~b@t		ZERO						
			F2443					
KAŠ~c 12888		PC25						
150x IV: 25p/11u; III: 47p/67u	o0980659	ZATU287	12888	12888	12888			
KAŠ~d 12889		PC25						
19x III: 19p	o0980660	ZATU286	12889	12889				
KEŠ ₂		EDI						
			F24DB					
KI 1288A		PC25						
AKA: KI~a 553x IV: 6p/5u; III: 325p/214u	o0980662	ZATU289	1288A	1288A	1288A (a)	1288A (a)	1288A (a)	1288A (a)
KI@n 1288B		PC25						
4x III: 2p/2u	o0980663		1288B	1288B				
KI@n×DUB~a 1288C		PC25						
AKA: KI@n+DUB~a 1x III: 1p	o0980664	ZATU567	1288C	1288C				
KIB 1288D		PC25						
11x IV: 1p/1u; III: 7p/2u	o0980665	ZATU290	1288D	1288D	1288D			
KIB@g 1288E		PC25						
1x III: 1p	o0980666		1288E	1288E				
KID~a 1288F		PC25						
18x III: 15p/3u	o0980667	ZATU291	1288F	1288F	1288F		1288F	
KID~b 12890		PC25						
73x IV: 1p; III: 54p/17u	o0980668	ZATU291	12890	12890	12890		12890	12890
KID~c 12891		PC25						
5x IV: 1p; III: 3p	o0980669	ZATU291	12891	12891	12891		12891	
KID~d 12892		PC25						
1x IV: 1p	o0980670	ZATU291	12892	12892	12892		12892	
KID~e 12893		PC25						
3x III: 3p	o0980671	ZATU291	12893	12893			12893	

KIN 12894		PC25						
3x III: 3p	o0980672	ZATU292	12894	12894	12894			
KIN ₂ ~a 12895		PC25						
1x IV: 1p	o0980673	ZATU293	12895			12895		
KIN ₂ ~b 12896		PC25						
1x III: 1p	o0980674	ZATU293	12896					12896
KIN ₂ ~c 12897		PC25						
13x III: 13p	o0980675	ZATU293	12897		12897			
KIN ₂ ~d 12898		PC25						
3x III: 3p	o0980676	ZATU293	12898		12898			
KIN ₂ ~e 12899		PC25						
1x IV: 1p	o0980677	ZATU293	12899			F210F		
1 F210F								
KINGAL		PC25-sq						
44x IV: 3p; III: 31p/10u	o0980678	ZATU294	1 F2111			F2110	F2111	F2110
			F2110					
KIR ₁₁		PC25-sq						
22x III: 7p/15u	o0980679		F225E					
KISAL~a1 1289A		PC25						
15x IV: 13p; III: 1p/1u	o0980680	ZATU295	1289A		1289A	1289A		
KISAL~a2		UNP						
1x IV: 1u	o0980681	ZATU295	F2444					
KISAL~b1 1289B		PC25						
222x IV: 30p/2u; III: 150p/39u	o0980682	ZATU295	1289B		1289B	1289B	1289B	1289B
KISAL~b2 1289C		PC25						
7x III: 7p	o0980683	ZATU295	1289C		1289C			
KISAL~b2@t 1289D		PC25						
2x III: 1p/1u	o0980684		1289D					
KISAL~b3 1289E		PC25						
2x III: 2p	o0980685	ZATU295	1289E		1289E			
KISIM~a 1289F		PC25						
62x IV: 1p; III: 56p/5u	o0980686	ZATU296	1289F		1289F		1289F	

KISIM~b 128A0		PC25	 1 F2112 2 F2113 3 F2114					
23x III: 23p	o0980687	ZATU296						
KISIM~c 128A1		PC25						
1x IV: 1p	o0980688	ZATU296						
KIŠ 128A2		PC25	 1 F2115 2 F2116					
174x IV: 3p; III: 96p/36u	o0980689	ZATU297						
KIŠIK~a 128A3		PC25						
29x III: 19p/10u	o0980690	ZATU298						
KIŠIK~b 128A4		PC25						
3x III: 3p	o0980691	ZATU298						
KITI 128A5		PC25	 1 F2117 2 F2118					
26x III: 12p/14u	o0980692	ZATU299						
KU~a 128A6		PC25						
4x III: 4p	o0980693	ZATU300						
KU~a@t		EDI						
			o0980694					
KU~b1 128A7		PC25						
75x IV: 1u; III: 35p/39u	o0980695	ZATU300						
KU~b2 128A8		PC25						
27x III: 26p/1u	o0980696	ZATU300						
KU₃~a 128A9		PC25	 1 F2119					
262x IV: 40p/1u; III: 170p/49u	o0980697	ZATU301						
KU₃~c 128AA		PC25						
2x III: 1p/1u	o0980698	ZATU301						

KU ₆ ~a 128AB		PC25						
385x IV: 40p/15u; III: 244p/84u	o0980699	ZATU302						
KU ₆ ~a.1(N02)		PC25-sq						
3x III: 3p	o0980700							
F224A								
KU ₆ ~a+GIŠ		ZERO						
o0980701								
F2249								
KU ₆ ~a+KU ₆ ~a 128AC		PC25						
10x IV: 1p/1u; III: 5p/3u	o0980702	ZATU303						
128AC								
KU ₆ ~a@s		UNP						
1x III: 1u	o0980703	ZATU446						
F2445								
KU ₆ ~c 128AD		PC25						
1x III: 1p	o0980704	ZATU302						
128AD								
KU ₆ ~d 128AE		PC25						
2x IV: 1u; III: 1p	o0980705	ZATU217						
128AE								
KUN		EDI						
o0980706								
F24DD								
KUR~a 128AF		PC25						
361x IV: 40p/7u; III: 205p/97u	o0980707	ZATU304						
128AF								
KUR~a.E ₂ ~a		PC25-sq						
13x III: 11p/2u	o0980708	ZATU130						
F224B								
KUR~a.NUNUZ~a1		ZERO						
o0980709								
F224C								
KUR~b 128B0		PC25						
6x IV: 3p/2u; III: 1p	o0980710	ZATU304						
128B0								
KUR~b.E ₂ ~a		UNP						
1x IV: 1u	o0980711	ZATU130						
F224D								
KUR~c 128B1		PC25						
1x III: 1p	o0980712	ZATU304						
128B1								
KUR~d		UNP						
1x IV: 1u	o0980713	ZATU304						
F2446								
KUR@g~a 128B2		PC25						
9x IV: 3p/2u; III: 4p	o0980714	ZATU329						
128B2								

KUR@g~b 128B3		PC25						
1× IV: 1p o0980715 ZATU329								
KUŠU ₂ ~a 128B4		PC25						
4× IV: 4p o0980716 ZATU305								
KUŠU ₂ ~b 128B5		PC25						
7× IV: 3p/2u; III: 1p/1u o0980717 ZATU305								
KUŠU ₂ ~c 128B6		PC25						
3× III: 2p/1u o0980718 ZATU305								
KUŠU ₂ ~d 128B7		PC25						
1× III: 1p o0980719 ZATU305								
KUŠU ₂ ~e 128B8		PC25						
1× IV: 1p o0980720 ZATU305								
KUŠU ₂ ~f 128B9		PC25						
1× III: 1p o0980721 ZATU305								
LA~b 128BA		PC25						
AKA: LA 3× IV: 1p; III: 2p o0980722 ZATU306								
LA~c		UNP						
1× III: 1u o0980723 ZATU306								
LA~d 128BB		PC25						
1× IV: 1p o0980724 ZATU306								
LA~e		EDI						
o0980725								
LA ₂ 128BC		PC25						
91× IV: 2p; III: 52p/36u o0980726 ZATU307								
LAGAB~a 128BD		PC25						
52× IV: 9p/1u; III: 15p/24u o0980727 ZATU308								
1 F211B								
LAGAB~a~BA		UNP						
1× III: 1u o0980728								
LAGAB~a~BIR ₃ ~b		UNP						
2× III: 2u o0980729								
LAGAB~a~DU ₆ ~a 128BE		PC25						
AKA: LAGAB~a~DU ₆ ~b CDL: LAGAB~a~DU ₆ ~b 1× IV: 1p o0980730 ZATU310								

LAGAB~a×KAK~a	UNP							
1× III: 1u o0980731								
LAGAB~a×KU ₆ ~a	PC25							
128BF								
1× III: 1p o0980732 ZATU313								
LAGAB~a×(KU ₆ ~a+KU ₆ ~a)	PC25							
128C0								
1× III: 1p o0980733								
LAGAB~a×KUŠU ₂ ~a@t	PC25							
128C1								
AKA: LAGAB~a×KUŠU ₂ ~b								
CDL: LAGAB~a×KUŠU ₂ ~b								
3× IV: 2p/1u o0980734 ZATU314								
LAGAB~a×LA ₂ ~a	UNP							
1× o0980735								
LAGAB~a×LAGAB~a	UNP							
1× III: 1u o0980736								
LAGAB~a×ME~a	PC25							
128C2								
2× IV: 2p o0980737 ZATU315								
LAGAB~a×NI~a	UNP							
1× III: 1u o0980738								
LAGAB~a×NUN~b	PC25							
128C3								
2× IV: 1p/1u o0980739 ZATU316								
LAGAB~a×PA~a	PC25							
128C4								
5× IV: 2p; III: 2p/1u o0980740 ZATU317								
LAGAB~a×SI	UNP							
3× III: 3u o0980741								
LAGAB~a×SIG ₇	PC25							
128C5								
1× III: 1p o0980742								
LAGAB~a×SU~a	PC25							
128C6								
1× III: 1p o0980743								
LAGAB~a×ŠA	PC25							
128C7								
10× III: 10p o0980744 ZATU318								
LAGAB~a×ŠITA~a1	PC25							
128C8								
20× III: 19p/1u o0980745 ZATU319								

LAGAB~a×TI 128C9		PC25	 128C9 F2120					
1× III: 1p	o0980746							
LAGAB~a×U ₄ 128CA		PC25	 128CA					
1× III: 1p	o0980747							
LAGAB~a×UB 128CB		PC25	 128CB					
1× IV: 1p	o0980748							
LAGAB~a×X		PC25-bk	 F2121 F2122					
3× IV: 1p; III: 2p	o0980749							
LAGAB~a×ZATU753 128CC		PC25	 128CC F2123					
2× IV: 1p	o0980750	ZATU321						
LAGAB~a×2(N14) 128CD		PC25	 128CD					
1× IV: 1p	o0980751	ZATU320						
LAGAB~a×1(N58) 128CE		PC25	 128CE					
1× III: 1p	o0980752							
LAGAB~b 128CF		PC25	 128CF					
149× IV: 5p/2u; III: 106p/33u	o0980753	ZATU308						
LAGAB~b.TE		PC25-sq	 128CF					
10× IV: 1p; III: 9p	o0980754							
LAGAB~b×BANŠUR~a		UNP	 F244D					
1× IV: 1u	o0980755	ZATU309						
LAGAB~b×GA'AR~a1		UNP	 F244E					
1× IV: 1u	o0980756	ZATU311						
LAGAB~b×HI 128D0		PC25	 128D0					
1× IV: 1p	o0980757	ZATU312						
LAGAB~b×(HI×1(N04)) AKA: LAGAB~b×(HI×N04) 1× o0980758		UNP	 F251F					
LAGAB~b×KUR~e 128D1		PC25	 128D1					
1× IV: 1p	o0980759	ZATU175						
LAGAB~b×PA~a 128D2		PC25	 128D2					
1× III: 1p	o0980760	ZATU317						
LAGAB~b×SI		EDI	 F2501					
		o0980761						

LAGAB~b×SUH ₃	UNP							
1× III: 1u	o0980762	F244F						
LAGAB~b×ŠITA~c	EDI							
	o0980763	F2500						
LAGAB~b×U ₄	PC25							
128D3		128D3						
2× III: 2p	o0980764							
LAGAB~b×X	EDI							
1×	o0980765	F2502						
LAGAB~b×1(N01)	EDI							
	o0980766	F24FF						
LAGAB~b&LAGAB~b	PC25							
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						
61× IV: 16p/4u;								
III: 31p/9u	o0980768	ZATU323						
LAGAR~a@r	PC25							
128D6		128D6						
1× III: 1p	o0980769							
LAGAR~b1	PC25							
128D7		128D7						
5× IV: 4p; III: 1p	o0980770	ZATU323						
LAGAR~b2	PC25							
128D8		128D8						
3× IV: 3p	o0980771	ZATU323						
LAGAR~c	PC25							
128D9		128D9						
4× IV: 3p; III: 1p	o0980772	ZATU323						
LAHTAN ₂	PC25-sq							
		F2266						
9× III: 7p/2u	o0980773	ZATU324						
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						
39x IV: 13p; III: 20p/6u	o0980780	ZATU325	128DA	128DA	128DA	128DA	128DA	
LAL ₂ -axEZEN-a		UNP						
1x IV: 1u	o0980781	ZATU326	F2450					
LAL ₂ -axEZEN-a		PC25						
128DB		128DB						128DB
2x III: 2p	o0980782							
LAL ₂ -axEZEN-b2		PC25						
128DC		128DC						128DC
3x III: 2p/1u	o0980783							
LAL ₂ -b 128DD		PC25						
1x IV: 1p	o0980784	ZATU325	128DD	128DD	128DD	128DD	128DD	
LAL ₃ -a 128DE		PC25						
5x III: 2p/3u	o0980785	ZATU327	128DE	128DE				
LAL ₃ -b 128DF		PC25						
2x III: 1p/1u	o0980786	ZATU327	128DF	128DF				
LAL ₃ -c		EDI						
	o0980787		F24E5	F24E5				
LAM-a 128E0		PC25						
5x III: 4p/1u	o0980788	ZATU328	128E0	128E0	128E0	128E0	128E0	
LAM-b 128E1		PC25						
			1 F2124	1 F2124	1 F2124	1 F2124	1 F2124	
61x IV: 12p/5u; III: 25p/19u	o0980789	ZATU328	128E1	128E1	128E1	128E1	128E1	
			2 F2125	2 F2125	2 F2125	2 F2125	2 F2125	
LAM-b@r 128E2		PC25						
1x IV: 1p	o0980790		128E2	128E2	128E2	128E2	128E2	
LAM-b@s		UNP						
1x IV: 1u	o0980791	ZATU329	F2451	F2451				
LAM-b@t 128E3		PC25						
2x IV: 2p	o0980792		128E3	128E3				
LAM-c		EDI						
	o0980793		F24E6	F24E6				
LI		PC25-sq						
7x III: 7p	o0980794	ZATU330	F2126	F2126	1 F2127	1 F2127	1 F2127	

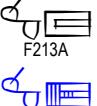
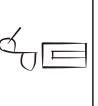
LIŠ 128E4		PC25						
10x III: 3p/7u	o0980795	ZATU331	128E4		128E4			
LU ₂ 128E5		PC25	1 F2128 128E5 2 F2129	 128E5	 F2128 128E5	 128E5		
58x IV: 1p/1u; III: 31p/24u	o0980796	ZATU332						
LU ₂ ×GEŠTU~c3		UNP						
1x III: 1u	o0980797	ZATU333	F2452					
LU _{2@t}		EDI						
			F24E7					
LUGAL		PC25-sq	1 F212B F212A	 F212A				
13x IV: 1u; III: 8p/4u	o0980799	ZATU334						
LUM 128E6		PC25						
14x IV: 1p; III: 9p/4u	o0980800	ZATU335	128E6		128E6			
MA 128E7		PC25	128E7 1 F212C	 F212C	 F212C	 F212C	 F212C	
195x IV: 38p/20u; III: 86p/51u	o0980801	ZATU336						
MA×A 128E8		PC25						
2x IV: 2p	o0980802	ZATU337	128E8					
MA×MA 128E9		PC25						
9x IV: 8p; III: 1p	o0980803	ZATU338	128E9		128E9			
MA×X		EDI						
			F2504					
MA×2(N57)		EDI						
			F2503					
MA×1(N58) 128EA		PC25						
1x III: 1p	o0980806		128EA					
MA ₂ 128EB		PC25						
9x IV: 5p/2u; III: 1u	o0980807	ZATU339	128EB			128EB		
MAGUR~a 128EC		PC25						
4x IV: 4p	o0980808	ZATU340	128EC			128EC		
MAGUR~b		UNP						
1x IV: 1u	o0980809	ZATU340	F2453					
MAH~a 128ED		PC25						
13x IV: 2p; III: 7p/4u	o0980810	ZATU341	128ED		128ED			

MAH~a×AB ₂ 128EE		PC25 o0980811		128EE				
1× IV: 1p								
MAH~a×GUKKAL~a 128EF		PC25 o0980812 ZATU342		128EF				
1× IV: 1p								
MAH~a×KU ₆ ~a 128F0		PC25 o0980813 ZATU343		128F0				
2× IV: 1u; III: 1p								
MAH~a×MAŠ 128F1		PC25 o0980814 ZATU344		128F1				
11× IV: 4p; III: 5p/2u								
MAH~a×NA~a 128F2		PC25 o0980815		128F2				
3× III: 3p								
MAH~a×(SILA ₃ ~a×UMBIN~a) 128F3		PC25 o0980816 ZATU346		128F3				
1× IV: 1p								
MAH~a×TUG ₂ ~a 128F4		PC25 o0980817 ZATU347		128F4				
1× IV: 1p								
MAH~a×TUN ₃ ~c 128F5		PC25 o0980818		128F5				
1× III: 1p								
MAH~a×UD ₅ ~a 128F6		PC25 o0980819 ZATU348		128F6				
2× IV: 2p								
MAH~a×UDU~a 128F7		PC25 o0980820 ZATU349		128F7				
1× IV: 1p								
MAH~a×UR~a 128F8		PC25 o0980821 ZATU350		128F8				
2× IV: 2p								
MAH~a×UTUA~a 128F9		PC25 o0980822 ZATU351		128F9				
1× IV: 1p								
MAH~a×X		PC25-bk o0980823		F2454				
7× IV: 5p; III: 1p/1u								
MAH~a×ZATU659 128FA		PC25 o0980824		128FA				
1× IV: 1p								
MAH~b 128FB		PC25 o0980825 ZATU341		128FB				
2× IV: 1p; III: 1u								
MAH~b×KU ₆ ~a		UNP o0980826 ZATU343		F2455				
1× IV: 1u								
MAH~b×MAŠ		UNP o0980827 ZATU344		F2456				
1× III: 1u								

MAH~b×NA~a 128FC 1× III: 1p		o0980828	PC25		128FC										
MAH~b×SAL 128FD 1× IV: 1p		o0980829	PC25		128FD				128FD						
MAR~a 128FE 164× IV: 16p/1u; III: 91p/47u		o0980830	ZATU345	PC25		128FE			128FE		128FE		F212D		
MAR~a@g 128FF AKA: MAR@g~a 2× III: 2p		o0980831	ZATU352	PC25		128FF			128FF					F212E	
MAR~a@t 12900 1× III: 1p		o0980832	ZATU352	PC25		12900			12900						
MAR~b 12901 22× IV: 10p; III: 11p/1u		o0980833	ZATU352	PC25		12901			12901		12901				12901
MAR~b×GAR 12902 1× III: 1p		o0980834	ZATU352	PC25		12902									
MAR~b×(LAGAB~b.ŠE ₃) 12903 1× IV: 1p		o0980835	ZATU353	PC25		12903					12903				
MAR~b×ŠE~a 12904 1× IV: 1p		o0980836	ZATU354	PC25		12904					12904				
MAR~b×X 2× III: 2p		o0980837	ZATU354	PC25-bk		F2457			F2457						
MAŠ 12905 220× IV: 50p/1u; III: 102p/65u		o0980838	ZATU355	PC25		12905			12905		12905		12905		12905
MAŠ ₂ 12906 AKA: MAŠNITA 164× IV: 2p; III: 84p/75u		o0980839	ZATU357	PC25		12906			12906		12906		12906		12906
MAŠ ₂ @g 12907 1× III: 1p		o0980840	ZATU358	PC25		12907									
ME~a 12908 511× IV: 23p/13u; III: 370p/98u		o0980841	ZATU358	PC25		12908			12908		12908		12908		12908

ME-b 12909		PC25						
4x IV: 2p; III: 2p	o0980842	ZATU358						
ME ₃ 1290A		PC25						
5x III: 4p/1u	o0980843	ZATU359						
MEN-a 1290B		PC25						
48x IV: 2p/2u; III: 28p/16u	o0980844	ZATU360						
MEN-b 1290C		PC25						
4x IV: 2p; III: 2p	o0980845	ZATU360						
MES 1290D		PC25						
41x III: 35p/6u	o0980846	ZATU361						
MIR-a 1290E		PC25						
23x III: 21p/2u	o0980847	ZATU362						
MIR-b 1290F		PC25						
16x III: 10p/6u	o0980848	ZATU362						
MU 12910		PC25						
140x IV: 13p/1u; III: 105p/20u	o0980849	ZATU363						
MUD 12911		PC25						
115x IV: 2u; III: 81p/32u	o0980850	ZATU364						
MUD ₃ -a 12912		PC25						
35x IV: 3p; III: 25p/7u	o0980851	ZATU365						
MUD ₃ -a@g 12913		PC25						
AKA: MUD ₃ @g 6x III: 4p/2u	o0980852	ZATU366						
MUD ₃ -a@g@GU		EDI						
		o0980853						
MUD ₃ -b 12914		PC25						
2x IV: 1p; III: 1u	o0980854	ZATU365						
MUD ₃ -c 12915		PC25						
4x III: 4p	o0980855	ZATU365						
MUD ₃ -d 12916		PC25						
5x III: 5p	o0980856	ZATU365						

MUL 12917		PC25						
3x III: 2p/1u	o0980857	ZATU367	12917		12917			
MUN~a1 12918		PC25				12918		
59x IV: 5p/2u; III: 30p/18u	o0980858	ZATU368	1 F2134			12918		F2134
MUN~a2 12919		PC25				12919		
4x III: 2p/2u	o0980859	ZATU368	1 F2135			F2135		
MUN~a3 1291A		PC25				1291A		
2x IV: 1p; III: 1u	o0980860	ZATU368						
MUN~a4 1291B		PC25				1291B		
1x III: 1p	o0980861	ZATU368				1291B		
MUN~b 1291C		PC25				1291C		
2x III: 2p	o0980862	ZATU368				1291C		
MUNŠUB~a 1291D		PC25				1291D		
2x IV: 2p	o0980863	ZATU369				1291D		
MUNŠUB~b 1291E		PC25				1291E		
18x III: 1p/17u	o0980864	ZATU369				1291E		
MUNU ₃ 1291F		PC25				1291F		
16x III: 15p/1u	o0980865	ZATU370				1291F		
MURUB ₂		PC25-sq						
5x III: 3p/2u	o0980866	ZATU371	F2259					
MUŠ 12920		PC25				12920		
3x III: 3p	o0980867	ZATU373				12920		
MUŠ ₂ ~a 12921		PC25				1 F2137		
339x IV: 59p/7u; III: 206p/66u	o0980868	ZATU374	2 F2138			12921		12921
MUŠ ₂ ~a@g 12922		PC25				12922		
6x IV: 2p/4u	o0980869	ZATU375	1 F2136					
MUŠ ₂ ~b 12923		PC25				12923		
4x IV: 1p; III: 3p	o0980870	ZATU374				12923		
MUŠEN 12924		PC25				12924		
321x IV: 23p/4u; III: 209p/80u	o0980871	ZATU376	1 F2139			12924		12924

MUŠEN.UR ₃ -b2		PC25-sq							
2x IV: 1p/1u	o0980872	ZATU377	1						
MUŠEN.3(N58)		UNP							
1x III: 1u	o0980873			12924					
MUŠEN×PAP~a		UNP							
1x III: 1u	o0980874		F2506						
MUŠEN×X		ZERO							
			o0980875	F2458				F2458	
1(N02).RU		PC25-sq							
1x III: 1p	o0980876		125BE						
1(N58).BAD	12925	PC25							
AKA: 1(N58).BAD-a 1(N58).BAD~a BAD+Diš~a BAD+Diš~a			12925		12925	12925(a)	12925(a)	12925(a)	12925(a)
CDLI: 1(N58).BAD~a									
85x IV: 18p/3u; III: 46p/18u	o0980877	ZATU043							
(1(N58).BAD)-b	12926	PC25							
AKA: (1(N58).BAD-b) CDLI: (1(N58).BAD-b)			12926		12926	12926	F2223	F2223	
6x IV: 4p/2u	o0980878	ZATU043	1						
3(N58).UR ₃ -b1	12927	PC25							
1x III: 1p	o0980879			12927		12927			
NA~a	12928	PC25							
AKA: NA 169x IV: 4p/2u; III: 93p/70u	o0980880	ZATU378		12928		12928		12928	12928
NA~b	12929	PC25							
8x IV: 5p; III: 1p/2u	o0980881	ZATU378		12929		12929		12929	
NA~c	1292A	PC25							
4x IV: 4p	o0980882	ZATU378		1292A		1292A		1292A	
NA~d		UNP							
1x III: 1u	o0980883	ZATU378		F2459					
NA ₂ ~a	1292B	PC25							
84x IV: 4p/4u; III: 50p/25u	o0980884	ZATU379	1						
NA ₂ ~b1	1292C	PC25							
6x IV: 1p; III: 5p	o0980885	ZATU379		1292C				1292C	

NA ₂ ~b2 1292D		PC25						
7x III: 6p/1u	o0980886	ZATU379						
NA ₂ ~c 1292E		PC25						
1x III: 1p	o0980887	ZATU379						
NAB 1292F		PC25						
20x III: 15p/4u	o0980888	ZATU380						
NAGA~a 12930		PC25						
AKA: NAGA 163x IV: 15p/6u; III: 101p/37u	o0980889	ZATU381						
NAGA~a×TAK ₄ ~a 12931		PC25						
1x III: 1p	o0980890							
NAGA~b 12932		PC25						
7x IV: 6p/1u	o0980891	ZATU381						
NAGAR~a 12933		PC25						
100x IV: 40p; III: 50p/10u	o0980892	ZATU382						
NAGAR~b 12934		PC25						
95x IV: 1u; III: 89p/5u	o0980893	ZATU382						
NAM~a 12935		PC25						
11x IV: 5p; III: 2p/3u	o0980894	ZATU383						
NAM~b 12936		PC25						
3x IV: 3p	o0980895	ZATU383						
NAM~c 12937		PC25						
4x IV: 1u; III: 3p	o0980896	ZATU383						
NAM~d 12938		PC25						
5x IV: 1u; III: 2p/2u	o0980897	ZATU383						

NAM ₂ 12939		PC25	 12939 1 F2143					
829x IV: 66p/12u; III: 528p/219u	o0980898	ZATU384						
NAM ₂ ×1(N01) 1293A		PC25	 1293A					
1x III: 1p	o0980899	ZATU385						
NAM ₂ @g 1293B		PC25	 1293B					
1x III: 1p	o0980900	ZATU386						
NAM ₂ @t 1293C		PC25	 1293C			 1293C		
9x IV: 1p; III: 8u	o0980901							
NAMEŠDA		PC25-sq	 1 F2145 F2144	 F2145	 F2145	 F2145	 F2145	
87x IV: 2p/1u; III: 66p/18u	o0980902	ZATU387						
NANNA~a		PC25-sq	 F2146 1 F2147 2 F2148	 F2146			 F2148 (o)	
11x III: 6p/5u	o0980903	ZATU388						
NANNA~b		PC25-sq	 F2265					
2x III: 2p	o0980904	ZATU388						
NANŠE~a 1293D		PC25	 1293D					
6x IV: 2p; III: 3p/1u	o0980905	ZATU389						
NANŠE~b 1293E		PC25	 1293E		 1293E			
7x III: 7p	o0980906	ZATU389						
NAR 1293F		PC25	 1293F 1 F2149	 1293F	 F2149	 1293F	 F2149	 1293F
127x IV: 5p; III: 62p/56u	o0980907	ZATU390						
NE~a 12940		PC25	 12940 1 F214A 2 F214B 3 F214C	 12940	 F214A	 12940 F214A	 F214C	 F214B
345x IV: 50p/17u; III: 187p/89u	o0980908	ZATU391						
NE~b 12941		PC25	 12941	 12941				
1x IV: 1p	o0980909	ZATU391						
NE~c 12942		PC25	 12942 1 F214D	 12942				
3x IV: 1p; III: 2p	o0980910	ZATU391						

NE~d 12943		PC25		12943		12943			
2× IV: 2p	o0980911	ZATU391							
NERGAL~v CDLI: NERGAL~x 1× III: 1p	o0980912	ZATU392		F2240		F2240			
NESAG ₂ ~a 12944		PC25		12944		F214E		F214E	
73× IV: 37p/2u; III: 26p/8u	o0980913	ZATU416 ZATU570		1 F214E					
NESAG ₂ ~a2 AKA: NISAG~a3 1× III: 1u	o0980914	ZATU416		F2530					
NESAG ₂ ~b 12945		PC25		1 F214F		12945		F214F	
24× IV: 9p/3u; III: 11p/1u	o0980915	ZATU416		12945					
NESAG ₂ ~b@t 1× III: 1u	o0980916			F245A					
NI~a 12946		PC25		12946		12946		12946	12946
356× IV: 13p/6u; III: 192p/145u	o0980917	ZATU393							
NI~a.RU		PC25-sq		F2256					F2256
78× III: 78p	o0980918								
NI~a×1(N57)		ZERO		F245B					
	o0980919								
NI~a@g 12947		PC25		12947				12947	
1× IV: 1p	o0980920	ZATU394							
NI~b 12948		PC25		12948		12948		12948	12948
91× IV: 5p; III: 76p/10u	o0980921	ZATU393							
NI~b×X		PC25-bk		F245C		F245C			
1× IV: 1p	o0980922								
NI~b×4(N57)		PC25		12949				F2150	
1× III: 1p	o0980923			1 F2150					
NI~b×8(N57) 1294A		PC25		1294A		1294A			
CDLI: 8(N57).NI~b 1× III: 1p	o0980924								
NI ₂ 1294B		PC25		1294B		1294B			
32× III: 27p/5u	o0980925	ZATU396							
NIGIN 1294C		PC25		1294C		1294C			1294C
9× III: 7p/2u	o0980926	ZATU397							

NIM~a 1294D		PC25						
88x IV: 22p/6u; III: 45p/15u	o0980927	ZATU398	1294D	1294D	1294D	1294D	1294D	1294D
NIM~b1 1294E		PC25						
68x IV: 2p; III: 41p/25u	o0980928	ZATU398	1294E	1294E	1294E	1294E	1294E	1294E
NIM~b2 1294F		PC25						
22x IV: 3p; III: 10p/9u	o0980929	ZATU398	1294F	1294F	1294F	1294F	1294F	1294F
NIM~b3 12950		PC25						
1x III: 1p	o0980930	ZATU398	12950				12950	
NIM~d		UNP						
1x	o0980931	ZATU398	F2531					
NIMGIR 12951		PC25						
84x IV: 23p/1u; III: 42p/15u	o0980932	ZATU399	1 F2151 12951	12951	12951	12951	12951	12951
NIN		PC25-sq						
107x IV: 1p/1u; III: 67p/37u	o0980933	ZATU400	F225B	F225B	F225B	F225B	F225B	F225B
NINDA ₂ 12952		PC25						
23x IV: 9p/3u; III: 7p/2u	o0980934	ZATU401	1 F2152 12952	12952	12952	12952	12952	12952
NINDA ₂ ~AN 12953		PC25						
2x III: 1p/1u	o0980935		12953					
NINDA ₂ ~(AN.HI) 12954		PC25						
2x III: 2p	o0980936		12954					
NINDA ₂ ~(AN.ME~a) 12955		PC25						
1x III: 1p	o0980937	ZATU406	12955 3 F2153					
NINDA ₂ ~(AN.X)		PC25-bk						
1x III: 1p	o0980938		F245D	F245D	F245D			
NINDA ₂ ~BA		UNP						
1x III: 1u	o0980939	ZATU402	F245E					
NINDA ₂ ~EZEN~b 12956		PC25						
2x III: 2p	o0980940	ZATU403	12956					
NINDA ₂ ~GA'AR~a1 12957		PC25						
1x III: 1p	o0980941		12957					
NINDA ₂ ~GAR 12958		PC25						
3x IV: 1p/1u; III: 1p	o0980942	ZATU404	12958					

 NINDA₂×GIŠ 12959 3x IV: 1p; III: 2p		o0980943	PC25 ZATU405	 12959	 12959			
 NINDA₂×(GIŠ.DAR~a) o0980944		EDI		 F2508				
 NINDA₂×GU₄ 1295A 1x III: 1p		o0980945	PC25	 1295A				
 NINDA₂×GUDU₄ o0982243		DEL		 1 F2156				
				 2 F2155				
				 1 F2154				
				 3 F2153				
 NINDA₂×HI 1295B 5x III: 3p/2u		o0980946	PC25 ZATU407	 1295B				
 NINDA₂×(HI.AN.ME~a) 1295C 5x III: 3p/2u		o0980947	PC25 ZATU406	 1295C	 1 F2154			
				 2 F2155				
 NINDA₂×(HI.ME~a) 1295D AKA: NINDA ₂ ×(HI+ME~a) 4x III: 1p/3u		o0980948	PC25 ZATU406	 1295D	 1 F2156			
 NINDA₂×(HI.X) 1x III: 1p		o0980949	PC25-bk	 F245F				
 NINDA₂×KAŠ~b 1295E 3x III: 2p/1u		o0980950	PC25	 1295E			 1295E	
 NINDA₂×MAR~a 1295F 1x		o0980951	PC25 ZATU408	 1295F				 1295F
 NINDA₂×MAR~b 12960 1x III: 1p		o0980952	PC25 ZATU408	 12960				
 NINDA₂×NE~a o0980953		EDI		 F2509				
 NINDA₂×NUN~a 12961 3x III: 3p		o0980954	PC25	 12961				 12961
 NINDA₂×ŠIM~a o0980955		EDI		 F250A				

$ NINDA_2 \times U_4 $ 12962 3x III: 1p/2u		PC25 o0980956	 12962				
$ NINDA_2 \times (U_4 \cdot X) $ 1x III: 1u		UNP o0980957	 F2460				
$ NINDA_2 \times (UDU \sim a \times TAR \sim a) $ AKA: $ NINDA_2 \times ((UDU \sim a \times TAR) \sim a) $ CDLI: $ NINDA_2 \times ((UDU \sim a \times TAR) \sim a) $ 1x III: 1u		UNP o0980958	 F2461				
$ NINDA_2 \times (UDU \sim a \times TAR \sim b) $ AKA: $ NINDA_2 \times ((UDU \sim a + TAR) \sim b) $ 1x III: 1u		UNP o0980959	 F2462				
$ NINDA_2 \times X $ 12x IV: 2p/1u; III: 3p/5u		PC25-bk o0980960	 F2463			 F2463	
$ NINDA_2 \times (X.MAŠ) $ o0980961		EDI	 F250B				
$ NINDA_2 \times (ZATU659 \times 1(N01)) $ 12963 2x III: 2p		PC25 o0980962	 12963			 12963	
$ NINDA_2 \times ZATU710 $ 12964 3x III: 3p		PC25 o0980963	 12964				 12964
$ NINDA_2 \times 1(N01) $ 12965 7x IV: 3p/1u; III: 2p/1u		PC25 o0980964	 12965		 12965	 12965	
$ NINDA_2 \times 2(N01) $ 12966 1x III: 1p		PC25 o0980965	 12966		 12966		
$ NINDA_2 \times 1(N06) $ o0980966		EDI	 F2507				
$ NINDA_2 \times (1(N06).HI@g-a) $ 12967 AKA: $ NINDA_2 \times (HI@g-a.1(N06)) $ CDLI: $ NINDA_2 \times (HI@g-a.1(N06)) $ 2x III: 1p/1u		PC25 o0980967	 12967				
$ NINDA_2 \times 1(N08) $ 12968 1x IV: 1p		PC25 o0980968	 12968		 12968		
NINKUM 10x III: 10p		PC25-sq o0980969	 F225C		 F225C		
NINLIL 4x III: 4p		PC25-sq o0980970	 F2233		 F2233		
NIR~a 12969 32x IV: 1u; III: 23p/7u		PC25 o0980971	 12969	 12969	 12969	 12969	

NIR~a×AN							
1296A		PC25					
14× III: 5p/9u	o0980972	ZATU415	1296A			1296A	
NIR~b							
1296B		PC25					
15× IV: 11p; III: 4p	o0980973	ZATU414	1296B	1296B	1296B	1296B	
NU							
1296C		PC25					
63× IV: 4p/4u; III: 37p/18u	o0980974	ZATU417	1296C	1296C	1296C	1296C	1296C
NU@g							
1296D		PC25					
21× IV: 5p/7u; III: 9p	o0980975	ZATU418	1296D	1296D	1296D	1296D	F2157
1296E		PC25					
45× IV: 2p; III: 37p/6u	o0980976	ZATU419	1296E	1296E	1296E	1296E	1296E
NU ₁₁ &NU ₁₁							
1296F		PC25					
1× III: 1p	o0980977		1296F	1296F			
NU ₁₁ @t							
12970		PC25					
4× III: 2p/2u	o0980978		12970				
NUMUN							
12971		PC25					
15× IV: 1p; III: 12p/2u	o0980979		12971		12971	12971	12971
NUMUN ₂		UNP					
2× III: 2u	o0980980	ZATU420	F2464				
NUN~a							
12972		PC25					
726× IV: 102p/13u; III: 449p/155u	o0980981	ZATU421	12972	12972	12972	12972	12972
NUN~a+A							
12973		PC25					
3× IV: 2p; III: 1p	o0980982	ZATU422	12973		12973		
NUN~a+EN~a							
12974		PC25					
AKA: EN~a×NUN~a							
39× IV: 12p/5u; III: 13p/5u	o0980983	ZATU135	12974	12974	12974	12974	
NUN~a+EN~b							
12975		PC25					
5× IV: 2p/3u	o0980984	ZATU135	12975			12975 (b)	
NUN~a+EN~d							
12976		PC25					
1× IV: 1p	o0980985	ZATU135	12976				
NUN~a+NAM ₂							
12977		PC25					
13× III: 13p	o0980986		12977			12977	

NUN~b 12978		PC25							
117× IV: 36p/3u; III: 16p/61u	o0980987	ZATU421	12978	12978	12978	12978	12978		
NUN~b.U ₄		PC25-sq							
1× III: 1p	o0980988		12978						
NUN~b+EN~a 12979		PC25							
AKA: EN~a+NUN~b 9× III: 8p	o0980989	ZATU135	12979						
NUN~c 1297A		PC25	1 F2158	2 1297A	3 F2159	1 F2158	2 1297A	3 F2159	1 1297A
18× IV: 14p/2u; III: 2p	o0980990	ZATU421	1297A	F2158	1297A	F2159	F2158	F2159	1297A
NUN~d 1297B		PC25							
4× IV: 3p	o0980991	ZATU421	1297B						
NNUZ~a0 1297C		PC25							
AKA: NNUZ~a1@n 13× III: 3p/10u	o0980992	ZATU423	1297C						
NNUZ~a1 1297D		PC25							
184× IV: 3p/2u; III: 112p/67u	o0980993	ZATU423	1297D						
NNUZ~a1@t		UNP							
2× III: 2u	o0980994		F2465						
NNUZ~a2 1297E		PC25							
14× IV: 6p; III: 2p/5u	o0980995	ZATU423	1297E			1297E	1297E		
NNUZ~b1 1297F		PC25							
5× IV: 2p; III: 3p	o0980996	ZATU423	1297F	1297F	1297F	1297F	1297F		
NNUZ~b2		UNP							
1× III: 1u	o0980997	ZATU423	F2466						
NNUZ~c 12980		PC25							
27× IV: 1p; III: 15p/11u	o0980998	ZATU423	12980	1 F215B	2 F215C	3 F215D	12980	(c1)	12980

PA~a 12981		PC25	 1 F215E 12981 2 F215F 3 F2160			 F215E 12981 F215F		 F215E 12981
514x IV: 43p/8u; III: 342p/116u	o0980999	ZATU425						
PA~b 12982		PC25	 12982			 12982		
2x IV: 2p	o0981000	ZATU425						
PA ₃ o0981001	EDI		 F24E8					
PAD~a 12983		PC25	 12983					 12983
30x IV: 3p; III: 18p/9u	o0981002	ZATU426						
PAD~b 12984		PC25	 12984					
1x III: 1p	o0981003	ZATU426						
PAP~a 12985		PC25	 12985		 12985	 12985	 12985	 12985
855x IV: 55p/11u; III: 520p/246u	o0981004	ZATU427						
PAP~a@t 12986		PC25	 12986					 F2161 (o)
AKA: PAP@t 21x III: 21p	o0981005		 1 F2161					
PAP~b 12987		PC25	 12987	 1 F2162	 12987			 12987
4x IV: 2p/1u; III: 1p	o0981006	ZATU427						
PIRIG~a1 12988		PC25	 12988	 12988	 12988	 12988		
19x IV: 17p/1u; III: 1p	o0981007	ZATU428						
PIRIG~a2 12989		PC25	 12989	 12989		 12989		
1x IV: 1p	o0981008	ZATU428						
PIRIG~a3 1298A		PC25	 1298A	 1298A		 1298A		
2x IV: 1p; III: 1p	o0981009	ZATU428						
PIRIG~b1 1298B		PC25	 1298B	 1298B	 1298B	 1298B	 1298B	 1298B
174x IV: 5p/3u; III: 111p/54u	o0981010	ZATU428						
PIRIG~b1+DIN 1298C		PC25	 1298C					 1298C
2x III: 2p	o0981011							

PIRIG~b1×UR ₂	UNP							
2× III: 2u	o0981012		F2467					
PIRIG~b1×1(N58@t)	ZERO							F2528
		o0981013	F2528					
PIRIG~b2 1298D	PC25							
2× IV: 1p; III: 1p	o0981014	ZATU428	1298D					
PU ₂ 1298E	PC25							
40× IV: 1p; III: 34p/4u	o0981015	ZATU430	1298E F2163		F2163		F2163	
RA 1298F	PC25							
4× IV: 1p; III: 3p	o0981016	ZATU431	1298F					
RAD~a 12990	PC25							
238× IV: 5p/2u; III: 114p/111u	o0981017	ZATU432	12990		12990	12990	12990	12990
RAD~a@g 12991	PC25							
15× IV: 5p/1u; III: 3p/6u	o0981018	ZATU433	12991		12991 (o)	12991 (o)		
RAD~a@t	UNP							
2× III: 2u	o0981019		F2468					
RAD~b 12992	PC25							
16× IV: 14p; III: 2p	o0981020	ZATU432	12992		12992	12992		
RI	EDI							
		o0981021	F24E9					
RI~x	DEL							
		o0982244	F24EA					
RI ₈ ~a 12993	PC25							
8× IV: 1p; III: 4p/3u	o0981022	ZATU434	12993		12993	12993		
RI ₈ ~b 12994	PC25							
1× III: 1p	o0981023	ZATU434	12994 F2164		12994			
RU 12995	PC25							
AKA: RU~a 345× IV: 17p/6u; III: 239p/82u	o0981024	ZATU435	12995 F2165		12995	12995	12995	12995
RU@t	ZERO							
		o0981025	F2469					

SA~a 12996		PC25						
25× IV: 1p; III: 16p/8u	o0981026	ZATU436	12996	12996	12996	12996	12996	
SA~c 12997		PC25						
53× III: 40p/12u	o0981027	ZATU436	12997	12997	1	F2166		
SAG 12998		PC25						
417× IV: 34p/8u; III: 261p/109u	o0981028	ZATU437	12998	1 F2168	2	F2169	12998	12998
SAG+UKKIN~b×1(N57) 12999		PC25						
AKA: SAG×(UKKIN~b×1(N57)) 1× III: 1p	o0981029		12999					12999
SAG×GEŠTU~a 1299A		PC25					1299A	
AKA: SAG+GEŠTU~a 10× IV: 8p; III: 1u	o0981030	ZATU438	1299A				1299A	
SAG×GEŠTU~b 1299B		PC25						
3× III: 3p	o0981031	ZATU438	1299B	1	F2167			
SAG×GEŠTU~c 1× III: 1u	o0981032	ZATU438	UNP					
F246A								
SAG×LAM~c o0981033		EDI						
SAG×MA 1299C		PC25						
19× III: 18p	o0981034	ZATU439	1299C				1299C	
SAG×NAM ₂ 1299D		PC25						
AKA: SAG+NAM ₂ 1× III: 1p	o0981035		1299D					
SAG×SAR~a o0981036		EDI						
SAG×1(N14) 1× III: 1u	o0981037	ZATU440	UNP					
F246B								
SAG@g 1299E		PC25						
9× III: 4p/5u	o0981038		1299E					1299E
SAG@n 1299F		PC25						
18× IV: 1p; III: 16p/1u	o0981039	ZATU441	1299F	1299F	1299F	1299F		1299F

SAGŠU 129A0		PC25 31x III: 17p/14u o0981040 ZATU442						
SAL 129A1		PC25 985x IV: 56p/19u; III: 582p/310u o0981041 ZATU443						
SAL.KUR~a		PC25-sq 50x IV: 3p/1u; III: 33p/12u o0981042 ZATU201						
SAL.LAM~b		UNP 2x III: 2u o0981043						
SAL.ME~a		PC25-sq AKA: LUKUR 1x III: 1p o0981044						
SAL.ŠU ₂		PC25-sq 2x III: 2p o0981045						
SAL.ZATU751~a		PC25-sq CDL: SAL.ZATU751~a 1x III: 1p o0981046						
SAL.ZATU751~b		ZERO CDL: SAL+ZATU751~b o0981047						
SAL.ZATU751~c		PC25-sq CDL: SAL+ZATU751~c 1x III: 1p o0981048						
SAL×1(N58)		PC25 129A2						
		2x III: 1p/1u o0981049						
SANGA~a 129A3		PC25 716x IV: 73p/28u; III: 447p/155u o0981050 ZATU444	 1 F216A	 2 F216B	 F216A 129A3 (b)	 F216A 129A3	 F216B 129A3	 129A3
SANGA~b 129A4		PC25 16x IV: 15p; III: 1p o0981051 ZATU444	 1 F216C	 129A4	 129A4	 F216C 129A4		
SANGA~c 129A5		PC25 2x IV: 1p/1u o0981052 ZATU444						
SANGA~e 129A6		PC25 1x III: 1p o0981053 ZATU444	 129A6	 1 F222A				 129A6 F222A
SAR~a 129A7		PC25 78x IV: 2p/2u; III: 48p/26u o0981054 ZATU445						
SAR~a×ŠE~a 129A8		PC25 27x IV: 4p/1u; III: 17p/4u o0981055 ZATU514						

SAR~b 129A9		PC25 o0981056 ZATU445						
5x III: 5p			129A9		129A9			
SAR~c 129AA		PC25 o0981057 ZATU445						
4x III: 2p/2u			129AA		129AA			
SAR~d 129AB		PC25 o0981058 ZATU445						
1x III: 1p			129AB					129AB
SI 129AC		PC25 o0981059 ZATU447						
389x IV: 23p/9u; III: 221p/129u			1 F216D 129AC		F216D	F216D	F216D	F216D
SI×AN 129AD		PC25 o0981060						
1x III: 1p			129AD					129AD
SI×EN~a 129AE		PC25 o0981061						
1x III: 1p			129AE					129AE
SI×GU ₄ 129AF		PC25 o0981062 ZATU448						
1x III: 1p			129AF					
SI×KU~b1 129B0		PC25 o0981063						
17x III: 17p			129B0					129B0
SI×SAL 129B1		PC25 o0981064						
1x III: 1p			129B1					129B1
SI×ŠE ₃ 129B2		PC25 o0981065 ZATU449						
4x III: 3p/1u			129B2		129B2			
SI×TUN _{3~a} 129B3		PC25 o0981066						
1x III: 1p			129B3					129B3
SI×1(N58) 129B4		PC25 o0981067						
1x III: 1p			129B4					129B4
SI ₄ ~a 129B5		PC25 o0981068 ZATU450						
75x IV: 20p/5u; III: 36p/11u			129B5		129B5	129B5		
SI ₄ ~b 129B6		PC25 o0981069 ZATU450						
1x IV: 1p			129B6			129B6		
SI ₄ ~c 129B7		PC25 o0981070 ZATU450						
1x IV: 1p			129B7			129B7		

SI₄-d 129B8		PC25	 129B8 1 F216E				 129B8		 F216E			
4x IV: 1p; III: 3p	o0981071	ZATU450										
SI₄-f 129B9	 73x III: 57p/16u	PC25	 129B9 1 F216F				 F216F		 129B9			
o0981072	ZATU450											
SIG 129BA		PC25	 129BA		 129BA	 129BA	 129BA					
92x IV: 7p; III: 53p/31u	o0981073	ZATU451										
SIG~b		UNP	 2x o0981074 ZATU451	 F2532								
SIG@g		UNP	1x III: 1u o0981075	 F246C								
SIG₂~a1 129BB		PC25	 129BB		 129BB							
AKA: SIG ₂ ~a 26x IV: 1u; III: 14p/10u	o0981076	ZATU452										
SIG₂~a2 129BC	 23x IV: 3p/3u; III: 15p/2u	PC25	 1 F2170		 F2170	 129BC	 F2170					
o0981077	ZATU452											
SIG₂~a3 129BD		PC25	 1 F2171		 129BD	 2 F2172	 F2171					
21x IV: 6p/1u; III: 11p/3u	o0981078	ZATU452										
SIG₂~a4 129BE	 2x IV: 1p; III: 1p	PC25	 o0981079 ZATU452	 129BE								
SIG₂~b 129BF	 158x IV: 17p/16u; III: 71p/51u	PC25	 o0981080 ZATU452	 129BF	 129BF	 129BF	 129BF	 129BF				
AKA: SIG ₂ ~b.SIG ₂ ~b CDL: SIG ₂ ~b.SIG ₂ ~b	2x III: 2p	o0981082										
 SIG₂-b×1(N14) 		UNP	3x IV: 3u o0981081 ZATU453	 F246D								
 SIG₂-b&SIG₂-b 129C0	 AKA: SIG ₂ -b.SIG ₂ -b CDL: SIG ₂ -b.SIG ₂ -b	PC25	 2x III: 2p o0981082	 129C0								
SIG₂-c1 129C1	 2x IV: 1p; III: 1p	PC25	o0981083 ZATU452	 129C1		 129C1	 129C1					

SIG ₂ ~c2 129C2		PC25 o0981084 ZATU452						
1x III: 1p								
SIG ₂ ~d1 129C3		PC25 o0981085 ZATU452						
10x III: 10p								
SIG ₂ ~d2 129C4		PC25 o0981086 ZATU452						
4x IV: 2p; III: 1p								
SIG ₂ ~d3 129C5		PC25 o0981087 ZATU452						
2x IV: 2p								
SIG ₂ ~d4 129C6		PC25 o0981088 ZATU452						
4x IV: 4p								
SIG ₂ ~e 129C7		PC25 o0981089 ZATU452						
10x IV: 4p/2u; III: 1p/2u								
SIG ₄ 129C8		PC25 o0981090 ZATU454						
1x IV: 1p								
SIG ₇ 129C9		PC25 o0981091 ZATU455						
102x IV: 14p/1u; III: 64p/23u								
SIKIL		EDI o0981092						
SILA ₃ ~a 129CA		PC25 o0981093 ZATU456						
52x IV: 5p/3u; III: 20p/24u								
SILA ₃ ~a~A 129CB		PC25 o0981094 ZATU457						
1x III: 1p								
SILA ₃ ~a~AMAR 129CC		PC25 o0981095						
1x IV: 1p								
SILA ₃ ~a~DUG~a 129CD		PC25 o0981096 ZATU458						
8x III: 4p/4u								
SILA ₃ ~a~DUG~b		EDI o0981097						
SILA ₃ ~a~GA~a 129CE		PC25 o0981098 ZATU459						
8x III: 5p/3u								

SILA ₃ ~a×GARA ₂ ~a 129CF		PC25						
AKA: SILA ₃ ~a+GARA ₂ ~a 18× III: 14p/4u o0981099 ZATU461								
SILA ₃ ~a×GEŠTU~a 129D0		PC25						
1× III: 1p o0981100 ZATU462								
SILA ₃ ~a×GEŠTU~c3 129D1		PC25						
7× IV: 5p/2u o0981101 ZATU462								
SILA ₃ ~a×GEŠTU~c5 129D1		UNP						
1× III: 1u o0981102 ZATU462 ZATU469								
SILA ₃ ~a×HAŠHUR 129D2		PC25						
5× IV: 1p; III: 3p/1u o0981103 ZATU463								
SILA ₃ ~a×HI 129D3		PC25						
7× IV: 1p; III: 5p/1u o0981104 ZATU464								
SILA ₃ ~a×HI@g~a 129D4		UNP						
2× IV: 2u o0981105 ZATU465								
SILA ₃ ~a×IB~a 129D4		PC25						
1× IV: 1p o0981106 ZATU466								
SILA ₃ ~a×KAŠ~a 129D5		PC25						
AKA: SILA ₃ ~a+KAŠ~a 5× IV: 1u; III: 4p o0981107 ZATU467								
SILA ₃ ~a×KAŠ~c 129D6		PC25						
2× III: 2p o0981108 ZATU467								
SILA ₃ ~a×KAŠ~d 129D7		PC25						
2× III: 1p/1u o0981109 ZATU467								
SILA ₃ ~a×KU ₆ ~a 129D8		PC25						
9× III: 6p/3u o0981110								
SILA ₃ ~a×KUR~a 129D9		PC25						
4× IV: 1p/2u; III: 1u o0981111 ZATU468								
SILA ₃ ~a×MA 129DA		PC25						
4× III: 3p/1u o0981112 ZATU473								
SILA ₃ ~a×MAŠ 129DB		PC25						
3× IV: 3p o0981113 ZATU470								
SILA ₃ ~a×MUD ₃ ~b 129DC		PC25						
AKA: SILA ₃ ~a+MUD ₃ ~b 1× III: 1p o0981114								

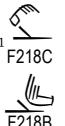
SILA ₃ ~a×NAGA~a 129DD 2× III: 2p		PC25 o0981115 ZATU471						
SILA ₃ ~a×NI~a 129DE 10× IV: 2u; III: 7p/1u		PC25 o0981116 ZATU460 ZATU472						
SILA ₃ ~a×NUN~b 129DF 2× IV: 1p; III: 1p		PC25 o0981117 ZATU614						
SILA ₃ ~a×SUHUR 129E0 2× IV: 2p		PC25 o0981118						
SILA ₃ ~a×SUM~a 129E1 3× IV: 3p		PC25 o0981119 ZATU474						
SILA ₃ ~a×SUM~b 129E2 1× III: 1p		PC25 o0981120 ZATU474						
SILA ₃ ~a×ŠE~a 129E3 1× IV: 1p		PC25 o0981121 ZATU475						
SILA ₃ ~a×ŠE~a@t 129E4 18× IV: 5p; III: 6p/7u		PC25 o0981122						
SILA ₃ ~a×ŠU 129E5 17× IV: 2p/1u; III: 4p/10u		PC25 o0981123 ZATU476						
SILA ₃ ~a×ŠU ₂ 129E6 11× III: 8p/3u		PC25 o0981124 ZATU477						
SILA ₃ ~a×X 17× IV: 7p/5u; III: 3p/2u		PC25-bk o0981125						
SILA ₃ ~a×ZATU629 129E7 1× III: 1p		PC25 o0981126						
SILA ₃ ~a×ZATU646 129E8 1× III: 1p		PC25 o0981127						
SILA ₃ ~a×(ZATU659.TU-c) 129E9 1× IV: 1p		PC25 o0981128 ZATU478						
SILA ₃ ~a×1(N57) 129EA 2× III: 2p		PC25 o0981129 ZATU481						
SILA ₃ ~a×1(N58) 1× IV: 1u		UNP o0981130 ZATU481						

SILA ₃ ~b 129EB 5x III: 5p		PC25 o0981131 ZATU456						
SILA ₃ ~b×DUG~a 129EC 1x III: 1p		EDI o0981132						
SILA ₃ ~b×GUG ₂ 129ED 1x IV: 1p		PC25 o0981133						
SILA ₃ ~b×NAGA~b 129EE 1x III: 1p		PC25 o0981134 ZATU471						
SILA ₃ ~b×NI~a 129EF 1x III: 1p		PC25 o0981135 ZATU460						
SILA ₃ ~b×NI~b 129F0 1x III: 1p		PC25 o0981136 ZATU460						
SILA ₃ ~c 1x III: 1u		UNP o0981137 ZATU456						
SILA ₃ ~c×ŠU 1x IV: 1u		UNP o0981138 ZATU476						
SILA ₃ ~c×ZATU687 129F1 1x III: 1p		PC25 o0981139 ZATU480						
SILA ₃ ~d×NI~a 129F2 2x III: 2u		UNP o0981140 ZATU460						
SILA ₄ ~a 129F3 17x III: 10p/7u		PC25 o0981141 ZATU482						
SILA ₄ ~b 129F4 31x IV: 6p/1u; III: 16p/8u		PC25 o0981142 ZATU482						
SILA ₄ ~c 129F5 83x IV: 8p/1u; III: 39p/35u		PC25 o0981143 ZATU482						
SILA ₄ ~d 129F6 1x III: 1p		PC25 o0981144 ZATU482						
SILANITA 129F7 AKA: SILANITA~a 26x III: 20p/6u		PC25 o0981145 ZATU483						
SIMUG 129F8 13x IV: 1p; III: 9p/3u		PC25 o0981146 ZATU484						

SIPA		PC25-sq						
6x III: 6p	o0981147		 1 					
SU-a 129F7		PC25		 1 		 129F7		
278x IV: 17p/5u; III: 159p/97u	o0981148	ZATU485						
SU~a*x1(N58) 129F8		PC25						
2x III: 2p	o0981149	ZATU486						
SU-b 129F9		PC25						
3x IV: 3p	o0981150	ZATU485						
SU-c 129FA		PC25						
1x III: 1p	o0981151	ZATU485						
SU ₃ 129FB		PC25						
6x III: 5p/1u	o0981152	ZATU487						
SUG 129FC		PC25						
11x IV: 3p; III: 5p/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 2 3 				 F217D
AKA: SUHUR~a 310x IV: 37p/11u; III: 206p/52u	o0981156	ZATU491						
SUHUR@g 12A00		PC25						
4x III: 3p/1u	o0981157							
SUHUR@n 12A01		PC25						
5x III: 1p/4u	o0981158							
SUHUR@t 12A02		PC25						
6x III: 6p	o0981159							
SUKKAL 12A03		PC25		 1 				
155x IV: 19p/7u; III: 94p/34u	o0981160	ZATU492						

SUKUD 12A04		PC25		12A04							
14x IV: 6p; III: 6p/2u o0981161 ZATU493											
(SUKUD+SUKUD)~a 12A05		PC25		12A05							
5x IV: 1u; III: 4p o0981162 ZATU494											
(SUKUD+SUKUD)~b 12A06		PC25		12A06							
13x IV: 1p; III: 11p/1u o0981163 ZATU494											
(SUKUD+SUKUD)~c		EDI		F2510							
(SUKUD+SUKUD)~d		UNP		F2475							
3x III: 3u o0981165 ZATU494											
SUKUD@g-a 12A07		PC25		12A07							
1x IV: 1p o0981166 ZATU495				1 F217F							
SUKUD@g-b 12A08		PC25		12A08							
2x IV: 1p; III: 1p o0981167 ZATU495				1 F2180							
SUKUD@g-c 12A09		PC25		12A09							
2x IV: 1p; III: 1u o0981168 ZATU495											
SUKUD@g-d 12A0A		PC25		12A0A							
3x III: 1p/2u o0981169 ZATU495											
SUKUD@h		UNP		F251C							
1x III: 1u o0981170											
SUM-a 12A0B		PC25		1 F2181							
29x IV: 1p; III: 23p/5u o0981171 ZATU496				12A0B							
				2 F2182							
SUM-a@t		UNP		F2476							
1x III: 1u o0981172											
SUM-b 12A0C		PC25		12A0C							
19x IV: 4p; III: 11p/4u o0981173 ZATU496											
SUMAŠ 12A0D		PC25		12A0D							
2x IV: 1p; III: 1p o0981174 ZATU497											
SUR 12A0E		PC25		12A0E							
9x IV: 1p; III: 6p/2u o0981175 ZATU498											

SUSA		PC25-sq						
1x III: 1p	o0981176	ZATU499		F2250				
ŠA 12A0F		PC25	 1 F2183				 F2184	
139x IV: 6p/2u; III: 98p/33u	o0981177	ZATU500						
(ŠA×HI@g~a)~a 12A10		PC25	 12A10					
15x IV: 1p; III: 6p/8u	o0981178	ZATU501						
(ŠA×HI@g~a)~b 12A11		PC25	 12A11					
4x IV: 1p; III: 3p	o0981179	ZATU501					(b)	
ŠA@g 12A12		PC25	 12A12					
20x IV: 1p; III: 14p/5u	o0981180	ZATU502						
ŠA ₃ -a1 12A13		PC25	 12A13					
112x IV: 4p; III: 58p/49u	o0981181	ZATU503						
ŠA ₃ -a2 12A14		PC25	 12A14					
AKA: ŠA ₃ -b1 32x IV: 1p/1u; III: 20p/5u	o0981182	ZATU503						
ŠA ₃ -a2@g 12A15		PC25	 12A15					
1x III: 1p	o0981183	ZATU503						
ŠA ₃ -b 12A16		PC25	 12A16				(b1)	
3x IV: 2p; III: 1p	o0981184	ZATU503						
ŠA ₃ -c 12A17		PC25	 12A17					
9x IV: 6p/1u; III: 2p	o0981185	ZATU503						
ŠA ₃ -d 12A18		PC25	 12A18					
1x IV: 1p	o0981186	ZATU503						
ŠAB~a		PC25-sq	 1 F2189					
79x IV: 5p/1u; III: 63p/10u	o0981187	ZATU504						

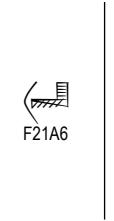
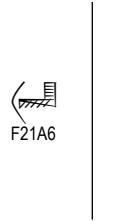
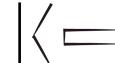
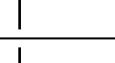
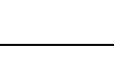
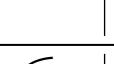
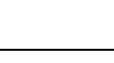
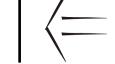
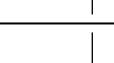
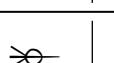
ŠAB~b		PC25-sq	 1 F218C	 F218B					
9x III: 9p	o0981188	ZATU504							
ŠAGAN 12A19		PC25	 1 F218D		 12A19	 F218D	 12A19	 12A19	
73x IV: 5p/1u; III: 57p/10u	o0981189	ZATU506		 12A19					
ŠAGINA 12A1A		PC25	 12A1A	 12A1A	 12A1A				
1x IV: 1p	o0981190	ZATU507							
ŠAH ₂ ~a 12A1B		PC25	 12A1B	 12A1B	 12A1B	 12A1B	 12A1B		
27x IV: 4p; III: 20p/3u	o0981191	ZATU508							
ŠAH ₂ ~b 12A1C		PC25	 12A1C	 12A1C					
1x III: 1p	o0981192	ZATU508							
ŠAH ₂ ~c 12A1D		PC25	 12A1D	 12A1D	 12A1D				
1x IV: 1p	o0981193	ZATU508							
ŠAKIR~a 12A1E		PC25	 12A1E	 12A1E	 12A1E			 12A1E	
3x III: 3p	o0981194	ZATU509							
ŠAKIR~b 12A1F		PC25	 12A1F	 12A1F	 12A1F				
8x III: 7p/1u	o0981195	ZATU509							
ŠAKIR~c 12A20		PC25	 12A20	 F218E	 F218E			 12A20	
47x III: 32p/15u	o0981196	ZATU509							
ŠAM ₂ 12A21		PC25	 12A21	 F218F	 12A21	 F218F	 12A21		
66x IV: 3p/2u; III: 53p/8u	o0981197	ZATU510							
ŠANDANA~a		PC25-sq	 F223B						
2x III: 2p	o0981198								
ŠANDANA~b		UNP	 F223A						
1x III: 1u	o0981199								
ŠE~a 12A22		PC25	 12A22	 12A22	 12A22	 12A22	 12A22		
1204x IV: 87p/6u; III: 856p/232u	o0981200	ZATU511							
ŠE~a.GAR		PC25-sq	 F2228	 1 F2229				 F2228	 F2229
2x III: 2p	o0981201								

ŠE~a.KIN ₂ ~c		PC25-sq							
5x III: 5p	o0981202	ZATU512		F2190 1 F2191		F2191			
ŠE~a.NAM ₂		PC25-sq							
AKA: ŠE~a×NAM ₂ ŠE~a×NAM ₂				F2192 1 F2193		F2193	F2192		
109x IV: 10p; III: 58p/39u	o0981203	ZATU513							
ŠE~a&ŠE~a		PC25							
12A23				12A23		12A23		12A23	12A23
29x IV: 1p; III: 24p/4u	o0981204	ZATU515							
ŠE~a@t		PC25				12A24	12A24		
12A24				12A24 1 F2194		12A24	12A24		
14x IV: 2p; III: 7p/5u	o0981205								
ŠE~b		PC25				12A25	12A25		
12A25						12A25	12A25		
6x IV: 1p; III: 4p	o0981206	ZATU511							
ŠE~c		PC25				12A26			
12A26				12A26					
2x IV: 1p/1u	o0981207	ZATU511							
ŠE ₃		PC25				12A27		12A27	
12A27				1 F2195 12A27			F2195 12A27	12A27	F2195
175x IV: 13p/10u; III: 103p/48u	o0981208	ZATU516							
ŠE ₃ @t		PC25				12A28		F2196	
12A28				1 F2196 12A28 2 F2197			F2196	F2197	
11x IV: 1p/1u; III: 7p/2u	o0981209	ZATU518							
ŠEG ₉		PC25				12A29		12A29	
12A29				1 F2198			F2198	12A29	
31x IV: 8p; III: 20p/3u	o0981210	ZATU519							
ŠELU		PC25-sq				F2264		F2264	
32x IV: 25p; III: 6p/1u	o0981211	ZATU520							
ŠEN~a		PC25				12A2A		F2199	
12A2A				1 F2199 12A2A			F2199		F2199
19x IV: 1u; III: 14p/4u	o0981212	ZATU521							
ŠEN~b		PC25				12A2B		12A2B	
12A2B				1 F219A			F219A	12A2B	
52x IV: 1p; III: 49p/2u	o0981213	ZATU521							

ŠEN~c 12A2C		PC25	 1 					
2x III: 1p	o0981214	ZATU521						
ŠEN~c@t 12A2D		PC25						
28x III: 28p	o0981215							
ŠEN~d		ZERO	 1 2 2 	 1 2 				
ŠEN~dxA 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						
2x III: 1p/1u	o0981220	ZATU522						
ŠEŠ~a 12A32		PC25	 1 		 1 	 1 		
25x IV: 11p/3u; III: 7p/4u	o0981221	ZATU523						
ŠEŠ~b 12A33		PC25						
1x IV: 1p	o0981222	ZATU523						
ŠIDIM 12A34		PC25						
36x IV: 6p/3u; III: 22p/5u	o0981223	ZATU524						
ŠIDIM@t		UNP						
1x IV: 1u	o0981224							
ŠIM~a 12A35		PC25	 1 2 	 1 2 	 1 2 	 1 2 	 1 2 	 1 2
56x IV: 2p/2u; III: 49p/3u	o0981225	ZATU525						
ŠIM~b 12A36		PC25						
3x IV: 1p/1u; III: 1u	o0981226	ZATU525						
ŠIR~a 12A37		PC25	 1 2 	 1 2 	 1 	 1 2 	 1 2 	 1
16x IV: 2p/4u; III: 9p/1u	o0981227	ZATU526						

ŠIR~b 12A38		PC25	1 F21A3 2 F21A4 12A38			F21A3 F21A4 12A38		
7x IV: 4p; III: 1p/2u o0981228 ZATU526								
ŠITA~a1 12A39		PC25						
AKA: ŠITA~a 346x IV: 37p/10u; III: 222p/76u				12A39	12A39	12A39	12A39	12A39
o0981229 ZATU527								
ŠITA~a1×KAK~a 12A3A		PC25						
2x III: 2p				12A3A	12A3A	12A3A		
o0981230 ZATU529								
ŠITA~a1×ŠU 12A3B		PC25						
2x III: 2p				12A3B	12A3B	12A3B		
o0981231 ZATU528								
ŠITA~a1×ŠU ₂		UNP						
1x III: 1u				F2478				
o0981232								
ŠITA~a1×UDU~a		UNP						
5x III: 5u				F2479				
o0981233								
ŠITA~a1×(N06)		UNP						
3x III: 3u				F247A				
o0981234								
ŠITA~a2 12A3C		PC25						
1x III: 1p				12A3C				
o0981235 ZATU527								
ŠITA~a3 12A3D		PC25						
29x IV: 10p; III: 15p/4u				12A3D	12A3D	12A3D	12A3D	12A3D
o0981236 ZATU527								
ŠITA~b1 12A3E		PC25						
26x IV: 5p/4u; III: 15p/2u				12A3E	12A3E	12A3E	12A3E	
o0981237 ZATU527								
ŠITA~b2 12A3F		PC25						
6x IV: 1p; III: 3p/2u				12A3F				
o0981238 ZATU527								
ŠITA~b2@g×HI@g~a 12A40		PC25						
AKA: ŠITA~b1×HI@g~a CDLI: ŠITA~b1×HI@g~a				12A40			12A40 (b1)	
1x IV: 1p				o0981239				
ŠITA~b3 12A41		PC25						
6x IV: 3p; III: 3p				12A41	12A41	12A41		12A41
o0981240 ZATU527								
ŠITA~b3×NAM ₂ 12A42		PC25						
1x IV: 1p				12A42				
o0981241								
ŠITA~c		EDI						
				F24EB				
o0981242								

ŠITA@g~a 12A43		PC25 24x IV: 4p/1u; III: 14p/4u	 o0981243 ZATU530	 ¹ F21A5				F21A5	
ŠITA@g~a×1(N04)		UNP							
1x III: 1u			o0981244 ZATU531	F247B					
ŠITA@g~a×1(N06)		PC25 12A44						12A44	
4x III: 3p/1u			o0981245						
ŠITA@g~b 12A45		PC25 12A45							
4x III: 3p/1u			o0981246 ZATU530						
ŠU 12A46		PC25 610x IV: 46p/8u; III: 373p/169u						12A46	12A46
			o0981247 ZATU532						
ŠU×1(N58)		PC25 12A47							
1x III: 1p			o0981248						
ŠU&ŠU		PC25 12A48						12A48	12A48
22x IV: 1p; III: 19p/2u			o0981249						
ŠU@g 12A49		PC25 4x III: 4p						12A49	12A49
			o0981250 ZATU533						
ŠU@s		EDI o0981251							
ŠU ₂ 12A4A		PC25 385x IV: 64p/40u; III: 227p/46u		 ¹ F21A9 ² F21AA ³ F21AB ⁴ F21AC ⁵ F21AD				F21A9 F21AD	F21AD F21AD
			o0981252 ZATU534						
ŠU ₂ .AN		UNP							
AKA: ŠU ₂ +AN ŠU ₂ .AN ŠU ₂ ×AN			o0981253						
4x III: 2u									
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 40x IV: 9p/3u; III: 23p/4u	o0981256	ZATU536	PC25-sq						
ŠU ₂ .EN~b 2x IV: 2u	o0981257	ZATU536	UNP						
ŠU ₂ .GIŠ 1x III: 1p	o0981258		ZERO						
ŠU ₂ ,(HI×1(N57))&(HI×1(N57)) AKA: ŠU ₂ ,((HI+1(N57))+(HI+1(N57))) CDL: ŠU ₂ ,((HI+1(N57))+(HI+1(N57))) 1x III: 1p	o0981259		PC25-sq						
ŠU ₂ .PAP~a 1x III: 1p	o0981260		PC25-sq						
ŠU ₂ .URI ₃ ~a 1x III: 1p	o0981261		PC25-sq						
ŠU ₂ .1(N02) 2x IV: 1u; III: 1u	o0981262		UNP						
ŠU ₂ .1(N24) AKA: ŠU ₂ ×1(N24) 1x III: 1p	o0981263		PC25-sq						
ŠU ₂ .2(N57) o0981264			EDI						
ŠU ₂ ×3(N57) AKA: ŠU ₂ ×3(N57) 1x o0981265			UNP						
ŠU ₁₂ 12A4B 1x III: 1p	o0981266	ZATU538	PC25						
ŠUBUR 12A4C 345x IV: 36p/7u; III: 201p/98u	o0981267	ZATU539	PC25						
ŠUM 12A4D 35x IV: 14p; III: 17p/4u	o0981268	ZATU541	PC25						
ŠUR ₂ ×1(N58) 12A4E 4x III: 4p	o0981269		PC25						
ŠUR ₂ ~a 12A4F 14x III: 8p/6u	o0981270	ZATU543	PC25						

ŠUR₂-b 12A50 13x III: 7p/6u		PC25 o0981271 ZATU543	 12A50						 12A50
ŠUR₂-c 2x		UNP o0981272 ZATU543	 F2533						
ŠURUPPAK~a 48x IV: 3u; III: 35p/10u		PC25-sq o0981273 ZATU544	 F21B0	 F21AF	 F21AF				
ŠURUPPAK~b 10x IV: 1u; III: 7p/2u		PC25-sq o0981274 ZATU544	 F21B2	 F21B1					
ŠURUPPAK~c		EDI o0981275	 F2263						
TA~a 12A51 5x IV: 1u; III: 4p		PC25 o0981276 ZATU545	 12A51						
TA~b 12A52 1x III: 1p		PC25 o0981277 ZATU545	 12A52						
TA~c 12A53 23x IV: 2p/2u; III: 16p/3u		PC25 o0981278 ZATU545	 12A53	 12A53	 12A53	 12A53	 12A53		
TA~d 12A54 2x III: 1p/1u		PC25 o0981279 ZATU545	 12A54						
TA~d×MAŠ 1x III: 1u		UNP o0981280	 F247C						
TA~e 12A55 1x III: 1p		PC25 o0981281 ZATU545	 12A55						
TA~f		EDI o0981282	 F24ED						
TAG~a1 12A56 25x IV: 16p; III: 7p/2u		PC25 o0981283 ZATU547	 12A56	 12A56	 12A56			 12A56	
TAG~a1@t 12A57 1x IV: 1p		PC25 o0981284	 12A57						
TAG~a2 12A58 9x III: 7p/2u		PC25 o0981285 ZATU547	 12A58	 12A58	 12A58	 12A58	 (a1)		
TAG~a3 12A59 2x III: 2p		PC25 o0981286 ZATU547	 12A59						

TAG~a4 12A5A		PC25						
2x IV: 1p; III: 1p	o0981287	ZATU547		12A5A	12A5A			
TAG~b 12A5B		PC25						
14x IV: 2p/1u; III: 11p	o0981288	ZATU547	1 F21B3	12A5B	F21B3	F21B3		
TAG~c 12A5C		PC25						
1x III: 1p	o0981289	ZATU547		12A5C				
TAG~d 12A5D		PC25						
3x III: 2p/1u	o0981290	ZATU547		12A5D				
TAK ₄ ~a 12A5E		PC25						
188x IV: 6p/3u; III: 119p/58u	o0981291	ZATU548	1 F21B4	12A5E		12A5E	12A5E	12A5E
TAK ₄ ~a@n 12A5F		PC25						
1x III: 1p	o0981292		12A5F				12A5F	
TAK ₄ ~c 12A60		PC25						
3x III: 2p/1u	o0981293	ZATU548	12A60					
TAR~a 12A61		PC25						
100x IV: 5p; III: 79p/16u	o0981294	ZATU549	12A61		12A61		12A61	12A61
TAR~d		EDI						
		o0981295						
TE 12A62		PC25						
AKA: TE~a 350x IV: 63p/5u; III: 194p/86u	o0981296	ZATU550	12A62		12A62	12A62	12A62	12A62
TI 12A63		PC25						
AKA: TI~a 103x IV: 9p/8u; III: 52p/34u	o0981297	ZATU551	1 F21B5	12A63	12A63	12A63 (a)	12A63 (a)	12A63 (a)
TI@g 12A64		PC25						
1x III: 1p	o0981298		12A64			12A64 (a)		
TI@r 12A65		PC25						
2x III: 2p	o0981299		12A65					
TI@t 12A66		PC25						
17x IV: 1p; III: 12p/4u	o0981300		12A66			12A66 (b)	12A66 (b)	
TIDNUM		PC25-sq						
1x III: 1p	o0981301	ZATU552		F2241		F2241		

TILLA, 12A67		PC25						
6× IV: 1p; III: 4p/1u o0981302	ZATU553							
TU~a 12A68		PC25						
27× IV: 4p; III: 15p/7u o0981303	ZATU554							
TU~b 12A69		PC25						
29× IV: 1u; III: 26p/2u o0981304	ZATU554							
TU~c 12A6A		PC25						
1× IV: 1p o0981305	ZATU554							
TUG ₂ ~a 12A6B		PC25						
365× IV: 31p/26u; III: 181p/124u o0981306	ZATU555							
		PC25-sq						
CDL: TUG ₂ ~a.(BAD&BAD)								
35× IV: 1p/2u; III: 22p/10u o0981307	ZATU556							
ZATU558								
TUG ₂ ~a@g 12A6C		PC25						
19× IV: 2u; III: 17p o0981308	ZATU557							
TUG ₂ ~b 12A6D		PC25						
2× IV: 1p; III: 1p o0981309	ZATU555							
TUG ₂ ~c 12A6E		PC25						
1× III: 1p o0981310	ZATU555							
TUG ₂ ~d		UNP						
1× IV: 1u o0981311	ZATU555							
TUM~a 12A6F		PC25						
34× IV: 9p/2u; III: 13p/10u o0981312	ZATU560							
TUM~a@g 12A70		PC25						
2× IV: 1p; III: 1u o0981313								
TUM~b 12A71		PC25						
6× IV: 2p; III: 2p/2u o0981314	ZATU560							
TUM~c 12A72		PC25						
13× IV: 1p; III: 12p o0981315	ZATU560							

TUM~d 12A73		PC25						
3x IV: 1p; III: 2p	o0981316	ZATU560						
TUN ₃ ~a 12A74		PC25						
108x IV: 35p/2u; III: 52p/19u	o0981317	ZATU561						
TUN ₃ ~b 12A75		PC25						
3x III: 3p	o0981318	ZATU561						
TUN ₃ ~c 12A76		PC25						
4x IV: 1p; III: 2p/1u	o0981319	ZATU561						
TUR 12A77		PC25						
381x IV: 31p/6u; III: 233p/101u	o0981320	ZATU562						
TUR×X		EDI						
	o0981321							
TUR@g 12A78		PC25						
9x IV: 1p; III: 6p/2u	o0981322							
¹ F21BC								
TUR ₃ ~a 12A79		PC25						
171x IV: 19p/4u; III: 115p/31u	o0981323	ZATU563						
TUR ₃ ~a.5(N57)		PC25-sq						
1x III: 1p	o0981324							
TUR ₃ ~a@n		UNP						
1x	o0981325							
TUR ₃ ~b 12A7A		PC25						
9x IV: 1p/2u; III: 6p	o0981326	ZATU563						
TUR ₃ ~b×TAK ₄ ~a		EDI						
o0981327								
TUR ₃ ~c 12A7B		PC25						
1x IV: 1p	o0981328	ZATU563						
U ₂ ~a 12A7C		PC25						
145x IV: 10p/1u; III: 98p/35u	o0981329	ZATU565						

U₂~b 12A7D		PC25	 F21C0 12A7D 2 F21C1			 12A7D	 F21C0 12A7D F21C1		 12A7D	 F21C0
170x IV: 15p/2u; III: 90p/59u	o0981330	ZATU565								
U₂~c 12A7E		PC25	 12A7E							
1x IV: 1p	o0981331	ZATU565								
U₄ 12A7F		PC25	 12A7F	 12A7F	 12A7F	 12A7F	 12A7F	 12A7F	 12A7F	
602x IV: 77p/13u; III: 395p/112u	o0981332	ZATU566								
 U₄.ŠU₂ 		PC25-sq	 F2275	 F2275	 F2275	 F2275				
11x IV: 2p; III: 7p/2u	o0981333	ZATU568								
 U₄.1(N08) 		PC25-sq	 F2276	 F2276				 F2276		
48x III: 32p/16u	o0981334									
 U₄.2(N08) 		PC25-sq	 F2277	 F2277				 F2277		
12x IV: 1p; III: 11p	o0981335									
 U₄.3(N08) 		PC25-sq	 F2278	 F2278				 F2278		
10x III: 8p/2u	o0981336									
 U₄.4(N08) 		PC25-sq	 F2279	 F2279				 F2279		
2x III: 2p	o0981337									
 U₄.5(N08) 		PC25-sq	 F227A	 F227A				 F227A		
6x III: 5p/1u	o0981338									
 U₄.6(N08) 		PC25-sq	 F227B	 F227B						
4x III: 4p	o0981339									
 U₄.7(N08) 		PC25-sq	 F227C	 F227C						
2x III: 1p/1u	o0981340									
 U₄.8(N08) 		PC25-sq	 F227D	 F227D						
1x III: 1p	o0981341									
 U₄.1(N14) 		PC25-sq	 F227E	 F227E						
1x III: 1p	o0981342									
 U₄.1(N14).1(N08) 		PC25-sq	 12A7F							
AKA: (U ₄ .1(N14)).1(N08)										
1x III: 1p	o0981343									
 U₄.1(N14).3(N08) 		PC25-sq	 F227F	 F227F						
CDL: U ₄ .(1(N14).3(N08))										
2x III: 2p	o0981344									
 U₄.1(N14).4(N08) 		PC25-sq	 F2280	 F2280				 F2280		
CDL: U ₄ .(1(N14).4(N08))										
1x III: 1p	o0981345									
 U₄.1(N14).5(N08) 		PC25-sq	 F2281	 F2281				 F2281		
CDL: U ₄ .(1(N14).5(N08))										
4x III: 2p/2u	o0981346									
 U₄.1(N14).8(N08) 		PC25-sq	 F2282	 F2282						
CDL: U ₄ .(1(N14).8(N08))										
1x III: 1p	o0981347									

$ U_4 \cdot 2(N14) $	PC25-sq							
2x III: 2p	o0981348		F2283					
$ U_4 \cdot 1(N24) $	PC25-sq							
3x III: 3p	o0981349		F2284					
$ U_4 \cdot X $	PC25-bk							
2x III: 1p/1u	o0981350		F247F					
$ U_4 \cdot (X \cdot 2(N01)) $	UNP							
1x III: 1u	o0981351		F2480					
$ U_4 \cdot 1(N01) $ 12A80	PC25							
38x IV: 1p; III: 30p/7u	o0981352	ZATU569	12A80				12A80	
$ U_4 \cdot 1(N01).5(N08) $	PC25-sq							
2x III: 1p/1u	o0981353		F2285				F2285	
$ U_4 \cdot (1(N01).1(N24)) $ 12A81	PC25							
AKA: $ U_4 \cdot 1(N01)+1(N24) $								
2x III: 2p	o0981354							
$ U_4 \cdot 2(N01) $	PC25-bk							
14x III: 13p/1u	o0981355		F2481				F2481	F2481
$ U_4 \cdot 2(N01).X $	PC25-sq							
1x III: 1p	o0981356		F2482					
$ U_4 \cdot 2(N01).2(N14) $	PC25-sq							
1x III: 1p	o0981357		F2286					
$ U_4 \cdot 2(N01).2(N14).1(N08) $ CDLI: $ U_4 \cdot 2(N01).(2(N14).1(N08)) $	PC25-sq							
1x III: 1p	o0981358		F2287				F2287	
$ U_4 \cdot 3(N01) $ 12A82	PC25							
5x III: 3p/2u	o0981359		12A82				12A82	
$ U_4 \cdot 3(N01).3(N08) $	UNP							
1x III: 1u	o0981360		F2288					
$ U_4 \cdot 4(N01) $ 12A83	PC25							
7x III: 6p/1u	o0981361		12A83					
$ U_4 \cdot 4(N01).2(N14) $	UNP							
1x III: 1u	o0981362		F2289					
$ U_4 \cdot 5(N01) $ 12A84	PC25							
3x III: 2p/1u	o0981363		12A84					
$ U_4 \cdot 5(N01).1(N14) $	PC25-sq							
1x III: 1p	o0981364		F228A					
$ U_4 \cdot 6(N01) $ 12A85	PC25							
3x III: 1p/2u	o0981365		12A85				12A85	

$ U_4 \times 8(N01) $ 12A86		PC25							
2× III: 2p o0981366			12A86					12A86	
$ U_4 \times 8(N01).X $		PC25-sq							
1× III: 1p o0981367			F2483						
$ U_4 \times N(N01) $ CDLI: $ U_4 \times (X(N01)) $ 1× III: 1u o0981368		UNP							
$ U_4 \times 1(N01@f) $ CDLI: $ U_4 \times 1(N01)F $ o0981369		EDI							
$ U_4 \times 1(N14) $ 12A87		PC25							
5× III: 1p/4u o0981370			12A87					12A87	
$ U_4 \times (1(N14).1(N01)) $ 12A88		PC25							
1× III: 1p o0981371			12A88						12A88
$ U_4 \times (1(N14).2(N01)) $ 12A89		PC25							
10× III: 10p o0981372			12A89					12A89	
$ U_4 \times (1(N14).3(N01)) $		UNP							
1× III: 1u o0981373			F253C						
$ U_4 \times (1(N14).3(N01).1(N14).4(N08)) $ AKA: $ U_4 \times (1(N14).3(N01)).(1(N14).4(N08)) $ 1× III: 1u o0981374		UNP							
$ U_4 \times (1(N14).4(N01)) $ 12A8A		PC25							
1× III: 1p o0981375			12A8A						
$ U_4 \times (1(N14).8(N01)) $ 12A8B		PC25							
2× III: 2p o0981376			12A8B					12A8B	
$ U_4 \times 2(N14) $		ZERO							
			o0981377	F2485				F2485	
$ U_4 \times (2(N14).4(N01)) $ 12A8C		PC25							
1× III: 1p o0981378			12A8C					12A8C	
$ U_4 \times (3(N14).2(N01)) $ 12A8D		PC25							
1× III: 1p o0981379			12A8D					12A8D	
$ U_4 \times (3(N14).7(N01)) $ 12A8E		PC25							
1× III: 1p o0981380			12A8E						
$ U_4 \times 1(N57) $ 12A8F		PC25							
159× III: 132p/23u o0981381			12A8F					12A8F	
$ U_4 \times 2(N57) $ 12A90		PC25							
57× IV: 1p; III: 43p/9u o0981382			12A90		12A90			12A90	

$ U_4 \times 3(N57) $ 12A91 43x IV: 1u; III: 30p/10u		PC25											
$ U_4 \times 4(N57) $ 12A92 9x III: 7p/1u		PC25											
$ U_4 \times 5(N57) $ 12A93 5x III: 5p		PC25											
$ U_4 \times 6(N57) $ 12A94 9x III: 8p/1u		PC25											
$ U_4 \times 7(N57) $ 12A95 3x III: 3p		PC25											
$ U_4 \times 8(N57) $ 12A96 3x III: 3p		PC25											
$ U_4 \times 10(N57) $ 12A97 2x III: 2p		PC25											
$ U_4 \times 1(N58@t) $ 12A98 AKA: $ U_4 \times 1(N58)@t $ CDL: $ U_4 \times 1(N58)@t $ 2x III: 2p		PC25											
$U_4 @ t$ 12A99 1x III: 1p		PC25											
U_8 12A9A 186x IV: 32p; III: 90p/62u		PC25	1 F21C2	12A9A	2 F21C3	3 F21C4	F21C3	F21C4	F21C3	F21C4	12A9A		
$ U_8 \times TAR \sim b $ 12A9B CDL: $ (U_8 \times TAR) \sim b $ 2x III: 1p/1u		PC25											
UB 12A9C 186x IV: 21p/5u; III: 140p/19u		PC25											
$UBI \sim a$ 12A9D 2x IV: 2p		PC25											

UBI~c 12A9E		PC25						
8× III: 8p	o0981396	ZATU573	1 F21C5					
UBI~d 12A9F		PC25						
2× III: 2p	o0981397	ZATU573	12A9F					
UD ₅ ~a 12AA0		PC25	1 F21C6					
224× IV: 46p/2u; III: 89p/83u	o0981398	ZATU574	2 F21C7					
UD ₅ ~a@g 12AA1		PC25						
1× III: 1p	o0981399		12AA1		12AA1			
UD ₅ ~b 12AA2		PC25						
2× IV: 2p	o0981400	ZATU574	12AA2		12AA2			
UD ₅ ~c 12AA3		PC25						
2× IV: 2p	o0981401	ZATU574	12AA3		12AA3			
UDU~a 12AA4		PC25						
AKA: UDU 586× IV: 75p/17u; III: 336p/148u	o0981402	ZATU575	12AA4		12AA4	12AA4	12AA4	12AA4
UDU~a×TAR~a 12AA5		PC25						
CDLI: (UDU~a×TAR)~a 8× IV: 2p; III: 2p/4u	o0981403	ZATU576	12AA5					
UDU~a×TAR~b 12AA6		PC25						
CDLI: (UDU~a×TAR)~b 19× III: 10p/9u	o0981404	ZATU576	12AA6					
UDU~b		UNP						
1× IV: 1u	o0981405	ZATU575	F2486					
UDU~c 12AA7		PC25						
6× IV: 1u; III: 4p/1u	o0981406	ZATU575	12AA7		12AA7			
UDUNITA~a 12AA8		PC25						
198× IV: 33p; III: 90p/73u	o0981407	ZATU578	12AA8		12AA8	12AA8	12AA8	12AA8
UDUNITA~b 12AA9		PC25						
1× IV: 1p	o0981408	ZATU578	12AA9			12AA9		
UDUNITA~c 12AAA		PC25						
14× IV: 7p; III: 6p	o0981409	ZATU578	12AAA			12AAA		

UH		UNP						
1x III: 1u	o0981410		F2487					
UH _{3~a} 12AAB		PC25						
13x IV: 2p; III: 7p/4u	o0981411	ZATU579						
UH _{3~a@t} 12AAC		PC25						
2x IV: 1p; III: 1p	o0981412							
UH _{3~b} 12AAD		PC25						
4x IV: 1p; III: 3p	o0981413	ZATU579						
UKKIN~a 12AAE		PC25						
155x IV: 34p/9u; III: 89p/23u	o0981414	ZATU580						
UKKIN~b 12AAF		PC25						
13x III: 11p/2u	o0981415	ZATU580						
UKKIN~b×DIN 12AB0		PC25						
6x III: 5p/1u	o0981416							
UKKIN~b×(DIN.1(N01)) 12AB1		PC25						
1x III: 1p	o0981417							
UKKIN~b×DUG~a o0981418		EDI						
UKKIN~b×HI@g~a 12AB2		PC25						
1x III: 1p	o0981419							
UKKIN~b×NI~a 12AB3		PC25						
2x III: 2p	o0981420							
UKKIN~b×X		PC25-bk						
1x III: 1p	o0981421		F2488					
UKKIN~b×2(N01) 12AB4		PC25						
1x III: 1p	o0981422							
UKKIN~b×3(N01) 12AB5		PC25						
1x III: 1p	o0981423							
UKKIN~b×5(N01) 12AB6		PC25						
1x III: 1p	o0981424							

UKKIN~c 12AB7		PC25						
1× IV: 1p o0981425 ZATU580								
UKKIN~d		UNP						
1× o0981426 ZATU580								
UMBIN~a 12AB8		PC25						
40× IV: 27p/3u; III: 7p/3u o0981427 ZATU581								
UMBIN~b1 12AB9		PC25						
2× IV: 2p o0981428 ZATU581								
UMBIN~b2 12ABA		PC25						
1× IV: 1p o0981429 ZATU581								
UMBIN~c 12ABB		PC25						
1× IV: 1p o0981430 ZATU581								
UMUN ₂ 12ABC		PC25						
160× IV: 19p/2u; III: 96p/43u o0981431 ZATU582								
UNUG~a 12ABD		PC25						
266× IV: 71p/8u; III: 127p/56u o0981432 ZATU583								
UNUG~a×A@t 12ABE		PC25						
1× IV: 1p o0981433 ZATU584								
UNUG~a@s 12ABF		PC25						
2× IV: 1p; III: 1u o0981434 ZATU585								
UNUG~b 12AC0		PC25						
6× IV: 1p; III: 5p o0981435 ZATU583								
UNUG~c 12AC1		PC25						
3× IV: 3p o0981436 ZATU583								
UR~a 12AC2		PC25						
AKA: UR 75× IV: 3p/4u; III: 41p/26u o0981437 ZATU586								
UR~a×KAR ₂ ~b		UNP						
AKA: UR~a×KAR ₂ ~b CDL: UR~a×KAR ₂ ~b 1× III: 1u o0981438								
UR~a@g 12AC3		PC25						
2× IV: 2p o0981439 ZATU587								

UR~b 12AC4		PC25						
8× IV: 1u; III: 7p	o0981440	ZATU586						
UR~c 12AC5		PC25						
3× IV: 1p/1u; III: 1p	o0981441	ZATU586						12AC5
UR₂ 12AC6		PC25						
107× IV: 12p/2u; III: 69p/24u	o0981442	ZATU588		12AC6	12AC6	12AC6	12AC6	12AC6
 UR₂×TAR~c 12AC7		PC25						
AKA: UR ₂ ×TAR CDLI: UR ₂ ×TAR			12AC7	12AC7	12AC7 (o)			
4× IV: 2p; III: 2p	o0981443	ZATU590						
 UR₂×1(N57) 12AC8		PC25						
15× IV: 6p/1u; III: 6p/2u	o0981444	ZATU589		12AC8	12AC8			
UR₃~a1 12AC9		PC25						
4× IV: 4p	o0981445	ZATU591		12AC9	12AC9	1 F21CD		
UR₃~a2 12ACA		PC25						
6× III: 6p	o0981446	ZATU591		12ACA	12ACA			
UR₃~a3 12ACB		PC25						
8× III: 7p/1u	o0981447	ZATU591		12ACB	12ACB			
UR₃~b1 12ACC		PC25						
12× IV: 5p/2u; III: 4p	o0981448	ZATU591		12ACC	12ACC			
 UR₃~b1×MAŠ 		UNP						
1× IV: 1u	o0981449		F248A	F248A				
UR₃~b2 12ACD		PC25						
11× IV: 2p/1u; III: 5p/3u	o0981450	ZATU591	1 F21CE	12ACD	12ACD			
UR₃~d2		UNP						
1×	o0981451	ZATU591	F2535	F2535				
UR₄~a 12ACE		PC25						
13× IV: 1p; III: 9p/3u	o0981452	ZATU592	12ACE	12ACE	12ACE			
UR₄~b 12ACF		PC25						
18× III: 15p/3u	o0981453	ZATU592	12ACF	12ACF	12ACF			12ACF
UR₄~c 12AD0		PC25						
3× IV: 2p; III: 1p	o0981454	ZATU592	12AD0	12AD0				

UR_{5~a} 12AD1		PC25 o0981455 ZATU593	 12AD1					 12AD1	 12AD1
74× IV: 1p/1u; III: 56p/16u									
UR_{5~b} 12AD2		PC25 o0981456 ZATU593	 12AD2	 12AD2					
4× III: 4p									
URI 12AD3		PC25 o0981457 ZATU594	 12AD3	 12AD3	 12AD3	 12AD3	 12AD3	 12AD3	
29× IV: 1p/1u; III: 20p/7u									
URI₂		EDI o0981458	 F228E	 F228E					
URI_{3~a} 12AD4		PC25 o0981459 ZATU595	 12AD4	 12AD4	 F21CF			 F21CF	 F21CF
110× IV: 7p; III: 58p/45u			 1 F21CF						
 URI_{3~a}+IB~a 		EDI o0981460	 F228D	 F228D					
URI_{3~b}		PC25-sq o0981461 ZATU595	 F228C	 F228C					
1× IV: 1p									
URI₅ 12AD5		PC25 o0981462 ZATU596	 12AD5	 12AD5					
8× III: 4p/4u									
URU~a1 12AD6		PC25 o0981463 ZATU597	 12AD6	 12AD6	 12AD6	 12AD6	 12AD6	 12AD6	
169× IV: 9p/3u; III: 108p/46u									
 URU~a1×A 		EDI o0981464	 F2515	 F2515					
 URU~a1×AMAR 12AD7		PC25 o0981465 ZATU598	 12AD7	 12AD7					
2× IV: 2p									
 URU~a1×GU₄ 		UNP o0981466	 F248B	 F248B					
1× III: 1u									
 URU~a1×HI@g~a 12AD8		PC25 o0981467	 12AD8	 12AD8			 12AD8		
1× III: 1p									
 URU~a1×KI 12AD9		PC25 o0981468	 12AD9						 12AD9
2× III: 2p									
 URU~a1×NIMGIR 12ADA		PC25 o0981469 ZATU600	 12ADA	 12ADA		 12ADA			
1× IV: 1p									
 URU~a1×U₄ 12ADB		PC25 o0981470	 12ADB	 12ADB			 12ADB		
1× III: 1p									
 URU~a1×X 		PC25-bk o0981471	 F248C	 F248C			 F248C		
2× IV: 1p; III: 1p									

URU~a1x1(N57)		PC25-sq							
1× IV: 1p	o0981472	ZATU601							
URU~a1x2(N57)		UNP							
1× IV: 1u	o0981473	ZATU601							
URU~a1x3(N57)	12ADC	PC25							
5× III: 5p	o0981474								
URU~a1@n		UNP							
1× III: 1u	o0981475								
URU~a2	12ADD	PC25							
3× IV: 3p	o0981476	ZATU597							
URU~a2x1(N58)	12ADE	PC25							
AKA: URU~a1+1(N58)									
3× IV: 2p; III: 1p	o0981477	ZATU601							
URU~a3xKALAM~a	12ADF	PC25							
1× IV: 1p	o0981478	ZATU599							
URU~b1	12AE0	PC25							
2× IV: 2p	o0981479	ZATU597							
URU~b2	12AE1	PC25							
4× IV: 4p	o0981480	ZATU597							
URU~c	12AE2	PC25							
2× IV: 2p	o0981481	ZATU597							
URUDU~a	12AE3	PC25		 1 F21D0	 2 F21D1		 1 F21D0		
40× IV: 8p/1u; III: 20p/11u	o0981482	ZATU602							
URUDU~c	12AE4	PC25							
3× IV: 1p; III: 1p/1u	o0981483	ZATU602							
URUDU~d	12AE5	PC25							
1× IV: 1p	o0981484	ZATU602							
URUDU@g~a	12AE6	PC25							
5× IV: 3p/2u	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	 12AE9					
87× IV: 33p/3u; III: 34p/17u	o0981489	ZATU604	1 F21D2			12AE9	12AE9	12AE9
 UŠ~a&UŠ~a 12AEA		PC25	 12AEA					
9× IV: 9p	o0981490					12AEA		
UŠ~b 12AEB		PC25	 12AEB					
9× IV: 1p/1u; III: 3p/4u	o0981491	ZATU604	1 F21D3		12AEB	F21D3		
 UŠ~b×TAR~c 12AEC		PC25	 1 F21D4					
2× IV: 2p	o0981492	ZATU605	12AEC					
 UŠ~b×TAR~d 		EDI	 F2516					
	o0981493							
 UŠ~b&UŠ~b 12AED		PC25	 12AED					
2× IV: 2p	o0981494							
UŠUMGAL		PC25-sq	 F2239					
5× III: 3p/2u	o0981495	ZATU607						
UŠUR₃~a		EDI	 F24F0		 (b1)	 F24F0		
	o0981496							
UŠUR₃~b1 12AEE		PC25	 12AEE			 (b2)		
1× III: 1p	o0981497	ZATU608				12AEE		
UŠUR₃~b2 12AEF		PC25	 12AEF					
1× III: 1p	o0981498	ZATU608						
UTUA~a 12AF0		PC25	 12AF0			 12AF0	 12AF0	 12AF0
123× IV: 40p/3u; III: 32p/46u	o0981499	ZATU609						
UTUA~a@t 12AF1		PC25	 12AF1			 12AF1		
1× IV: 1p	o0981500							
UTUA~b 12AF2		PC25	 1 F21D5		 F21D5	 F21D5	 12AF2	
14× IV: 4p; III: 8p/2u	o0981501	ZATU609						
UTUL~a 12AF3		PC25	 12AF3		 12AF3	 12AF3	 12AF3	 12AF3
38× IV: 3p/1u; III: 27p/7u	o0981502	ZATU610						
UTUL~b 12AF4		PC25	 12AF4		 12AF4			
1× IV: 1p	o0981503	ZATU610						

UTUL~c 12AF5		PC25 o0981504 ZATU610					
1× IV: 1p							
UTUL~d 12AF6		PC25 o0981505 ZATU610					
1× IV: 1p							
UZ~a		PC25-sq o0981506 ZATU611					
6× III: 1p/2u							
UZU 12AF7		PC25 o0981507					
2× III: 1p/1u							
X₂		PC25-sq o0981508					
AKA: 2(N57).DU ₆ ~a@n							
1× III: 1p							
ZA~v 12AF8		PC25 o0981509 ZATU612					
CDL: ZA~x 9× III: 9p							
ZABALAM~a		PC25-sq o0981510 ZATU613					
AKA: ZABALAM~a 48× III: 31p/17u							
ZABALAM~b		UNP o0981511 ZATU613					
1× III: 1u							
ZADIM		EDI o0981512					
ZAG~a 12AF9		PC25 o0981513 ZATU615					
75× IV: 2p/1u; III: 57p/15u							
ZAG~b 12AFA		PC25 o0981514 ZATU615					
2× IV: 2p							
ZAG~c 12AFB		PC25 o0981515 ZATU615					
7× IV: 4p; III: 3p							
ZAR~a 12AFC		PC25 o0981516 ZATU616					
2× III: 2p							
ZAR~b1 12AFD		PC25 o0981517 ZATU616					
2× IV: 2p							
ZAR~b2 12AFE		PC25 o0981518 ZATU616					
3× IV: 3p							
ZAR~c 12AFF		PC25 o0981519 ZATU616					
8× IV: 6p/1u; III: 1p							

ZI~a 12B00		PC25					
125x IV: 3p/1u; III: 90p/31u	o0981520	ZATU617					
ZI~b 12B01		PC25					
2x IV: 2p	o0981521	ZATU617					
ZI~d 12B02		PC25					
2x III: 2p	o0981522	ZATU617					
(ZU&ZU).SAR~a		EDI					
ZUBI~a 12B03		PC25					
1x III: 1p	o0981524	ZATU619					
ZUBI~b		UNP					
1x III: 1u	o0981525	ZATU619					
ZATU620 12B04		PC25					
1x IV: 1p	o0981526	ZATU620					
ZATU621~a 12B05		PC25					
5x IV: 4p; III: 1p	o0981527	ZATU621					
ZATU621~b 12B06		PC25					
3x IV: 3p	o0981528	ZATU621					
ZATU621~c 12B07		PC25					
2x IV: 2p	o0981529	ZATU621					
ZATU621~d 12B08		PC25					
1x IV: 1p	o0981530	ZATU621					
ZATU622 12B09		PC25					
1x IV: 1p	o0981531	ZATU622					
ZATU623 12B0A		PC25					
11x IV: 3p/1u; III: 5p/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						
1× III: 1u	o0981535	ZATU624	F248F					
ZATU625 12B0D		PC25	12B0D			12B0D		12B0D
17× IV: 3p/1u; III: 10p/3u	o0981536	ZATU625	1 F21DB			F21DB		
ZATU626~a 12B0E		PC25	12B0E			12B0E		
1× IV: 1p	o0981537	ZATU626						
ZATU626~b 12B0F		PC25	12B0F					
1× IV: 1p	o0981538	ZATU626						
ZATU626~c 12B10		PC25	12B10			12B10		
1× IV: 1p	o0981539	ZATU626						
ZATU627		UNP	F2490					
1× IV: 1u	o0981540	ZATU627						
ZATU628~a 12B11		PC25	12B11			12B11		12B11
30× III: 15p/15u	o0981541	ZATU628	1 F21DC					
ZATU628~b 12B12		PC25	12B12					12B12
8× III: 1p/7u	o0981542	ZATU628						
ZATU629 12B13		PC25	1 F21DD			F21DD		
22× IV: 6p; III: 6p/10u	o0981543	ZATU629	12B13					
ZATU630 12B14		PC25	12B14		12B14	12B14		12B14
8× IV: 5p/1u; III: 2p	o0981544	ZATU630						
ZATU631 12B15		PC25	12B15			12B15		
6× IV: 4p; III: 2u	o0981545	ZATU631						
ZATU632~a 12B16		PC25	12B16		12B16			
4× IV: 1p/1u; III: 2u	o0981546	ZATU632	1 F21DE					
ZATU632~b 12B17		PC25	12B17			12B17		
1× IV: 1p	o0981547	ZATU632						
ZATU632~c		UNP	F2491					
1× IV: 1u	o0981548	ZATU632						
ZATU633~a 12B18		PC25	12B18		12B18			12B18
4× III: 3p/1u	o0981549	ZATU633						
ZATU633~b 12B19		PC25	12B19		12B19			
4× III: 4p	o0981550	ZATU633						
ZATU634		UNP	F2492					
1× IV: 1u	o0981551	ZATU634						

ZATU635 12B1A		PC25						
3x IV: 3p	o0981552	ZATU635				12B1A		
ZATU636 12B1B		PC25						
5x IV: 3p; III: 2u	o0981553	ZATU636		1 F21DF				
ZATU637 12B1C		PC25						
2x IV: 1p; III: 1p	o0981554	ZATU637		12B1C			12B1C	
ZATU639 12B1D		PC25						
7x IV: 4p/1u; III: 2p	o0981555	ZATU639		12B1D			12B1D	
ZATU640		PC25-bk						
1x IV: 1p	o0981556	ZATU640		F2493			F2493	
ZATU641 12B1E		PC25						
1x IV: 1p	o0981557	ZATU641		12B1E			12B1E	
ZATU642 12B1F		PC25						
2x IV: 2p	o0981558	ZATU642		12B1F			12B1F	
ZATU643 12B20		PC25						
2x IV: 1p/1u	o0981559	ZATU643		12B20				
ZATU644~a 12B21		PC25						
57x IV: 8p/3u; III: 43p/2u	o0981560	ZATU644		12B21			12B21	12B21
ZATU644~a x 1(N14)		UNP						
1x IV: 1u	o0981561	ZATU645		F2494				
ZATU644~b 12B22		PC25						
10x IV: 3p/4u; III: 2p/1u	o0981562	ZATU644		12B22		12B22	12B22	
ZATU646 12B23		PC25						
10x IV: 2p; III: 2p/6u	o0981563	ZATU646		12B23				
ZATU647 12B24		PC25						
73x IV: 3p; III: 54p/14u	o0981564	ZATU647		1 F21E0				
ZATU648 12B25		PC25						
53x IV: 2u; III: 39p/12u	o0981565	ZATU648		12B25		12B25		12B25
ZATU649 12B26		PC25						
44x III: 37p/7u	o0981566	ZATU649		1 F21E1				12B26
ZATU650		PC25-bk						
1x IV: 1p	o0981567	ZATU650		F2495			F2495	

ZATU651 12B27		PC25	 						
17x IV: 11p/3u; III: 2p/1u	o0981568	ZATU651							
ZATU651×AN 12B28		PC25							
1x III: 1p	o0981569	ZATU652							
ZATU651×EN~a 12B29		PC25							
29x III: 23p/6u	o0981570	ZATU653							
ZATU651×GAR 12B2A		PC25							
20x IV: 1p/2u; III: 8p/9u	o0981571	ZATU654							
ZATU651×MA 12B2B		PC25							
1x IV: 1p	o0981572	ZATU655							
ZATU651×NUN~a 12B2C		PC25							
12x IV: 1p; III: 10p/1u	o0981573	ZATU656							
ZATU651×SE~a		UNP							
1x III: 1u	o0981574	ZATU657							
ZATU651×X		PC25-bk							
2x III: 2p	o0981575								
ZATU651×ZAR~c 12B2D		PC25							
1x IV: 1p	o0981576								
ZATU651@g 12B2E		PC25							
15x IV: 1p; III: 9p/5u	o0981577	ZATU658							
ZATU659 12B2F		PC25							
131x IV: 14p/6u; III: 72p/37u	o0981578	ZATU659							
ZATU659×1(N01) 12B30		PC25							
20x III: 20p	o0981579								
ZATU659×1(N14) 12B31		PC25							
1x IV: 1p	o0981580	ZATU661							
ZATU659×1(N58@t) 12B32		PC25							
AKA: ZATU659×1(N58)@t CDLI: ZATU659×1(N58)@t									
1x III: 1p	o0981581	ZATU660							

ZATU659@t		UNP						
1x	o0981582		F2541					
ZATU662 12B33		PC25	 ¹ F21E4 ² F21E5 12B33 ³ F21E6	 	 	 F21E5	 F21E4 F21E5 12B33	 12B33
27x IV: 4p/6u; III: 16p/1u	o0981583	ZATU662						
ZATU662×1(N14) 12B34		PC25	 12B34 ¹ F21E7 ² F21E8	 	 	 F21E8	 F21E7	
11x IV: 4p/1u; III: 6p	o0981584	ZATU663						
ZATU664 12B35		PC25	 12B35				 12B35	
2x IV: 1p; III: 1p	o0981585	ZATU664						
ZATU665 12B36		PC25	 12B36				 12B36	
1x IV: 1p	o0981586	ZATU665						
ZATU666 12B37		PC25	 12B37					
1x IV: 1p	o0981587	ZATU666						
ZATU667 12B38		PC25	 12B38				 12B38	
1x IV: 1p	o0981588	ZATU667						
ZATU668 12B39		PC25	 12B39				 12B39	
1x IV: 1p	o0981589	ZATU668						
ZATU669 12B3A		PC25	 12B3A					
6x III: 3p/3u	o0981590	ZATU669						
ZATU670		PC25-bk	 F2498				 F2498	
1x IV: 1p	o0981591	ZATU670						
ZATU672 12B3B		PC25	 12B3B				 12B3B	
3x IV: 3p	o0981592	ZATU672						
ZATU674 12B3C		PC25	 12B3C					
1x IV: 1p	o0981593	ZATU674						
ZATU675~a 12B3D		PC25	 12B3D				 12B3D	
1x IV: 1p	o0981594	ZATU675						
ZATU675~b 12B3E		PC25	 ¹ F21E9 12B3E				 12B3E	
4x IV: 2p; III: 2p	o0981595	ZATU675						
ZATU675~c 12B3F		PC25	 12B3F				 12B3F	
2x IV: 2p	o0981596	ZATU675						

ZATU675~d 12B40		PC25 o0981597						
2× III: 2p		ZATU675						
ZATU676~a 12B41		PC25 o0981598						
8× III: 6p/2u		ZATU676						
ZATU676~b 12B42		PC25 o0981599						
7× III: 7p		ZATU676						
ZATU677~a 12B43		PC25 o0981600				12B43		
1× IV: 1p		ZATU677						
ZATU677~b 12B44		PC25 o0981601				12B44		
1× IV: 1p		ZATU677						
ZATU678 12B45		PC25 o0981602				12B45		
5× IV: 4p		ZATU678						
ZATU679 12B46		PC25 o0981603				12B46		
8× IV: 4p/2u; III: 2p		ZATU679						
ZATU680~a1 12B47		PC25 o0981604						
1× IV: 1p		ZATU680						
ZATU680~a2 12B48		PC25 o0981605						
1× IV: 1p		ZATU680						
ZATU680~b 12B49		PC25 o0981606				12B49		
6× IV: 4p; III: 2p		ZATU680						
ZATU680~d 12B4A		PC25 o0981607					12B4A	
1× IV: 1p		ZATU680						
ZATU680~e 12B4B		PC25 o0981608					12B4B	
1× IV: 1p		ZATU680						
ZATU681 12B4C		PC25 o0981609				12B4C		
10× IV: 1p; III: 9p		ZATU681						
ZATU682 12B4D		PC25 o0981610						
7× III: 4p/3u		ZATU682						
ZATU683~a 12B4E		PC25 o0981611					12B4E	
1× IV: 1p		ZATU683						
ZATU683~b 12B4F		PC25 o0981612						
2× IV: 2p		ZATU683						
ZATU683@t		UNP o0981613						
1× III: 1u				F2499				
ZATU684 12B50		PC25 o0981614					12B50	
2× III: 1p/1u		ZATU684						

ZATU685 12B51		PC25							
1× IV: 1p	o0981615	ZATU685	12B51			12B51			
ZATU686~a 12B52		PC25							
40× IV: 1p/1u; III: 24p/14u	o0981616	ZATU686	12B52		12B52		12B52		
ZATU686~b 12B53		PC25							
14× III: 9p/5u	o0981617	ZATU686	12B53				12B53		
ZATU686~c 12B54		PC25							
2× III: 2p	o0981618	ZATU686	12B54		12B54				
ZATU687 12B55		PC25							
15× IV: 3p; III: 3p/9u	o0981619	ZATU687	12B55		12B55	12B55	12B55		
ZATU688~a 12B56		PC25							
4× IV: 4p	o0981620	ZATU688	12B56						
ZATU688~b 12B57		PC25							
1× IV: 1p	o0981621	ZATU688	12B57			12B57			
ZATU689 12B58		PC25							
3× IV: 3p	o0981622	ZATU689	12B58			12B58			
ZATU690 12B59		PC25							
2× IV: 1p/1u	o0981623	ZATU690	12B59			12B59			
ZATU691 12B5A		PC25							
1× IV: 1p	o0981624	ZATU691	12B5A						
ZATU692 12B5B		PC25							
1× IV: 1p	o0981625	ZATU692	12B5B			12B5B			
ZATU693 12B5C		PC25							
31× IV: 29p/1u; III: 1p	o0981626	ZATU693	12B5C	¹ F21EB	² F21EC	12B5C	¹ F21EB	² F21EC	
ZATU693@t 12B5D		PC25							
1× IV: 1p	o0981627		12B5D	¹ F21ED		12B5D			F21ED
ZATU694~a 12B5E		PC25							
3× IV: 3p	o0981628	ZATU694	12B5E			12B5E			
ZATU694~b 12B5F		PC25							
10× IV: 9p; III: 1p	o0981629	ZATU694	12B5F			12B5F			

ZATU694~c 12B60		PC25	 F21EE			 12B60		 12B60		 12B60
74x IV: 2p; III: 19p/53u	o0981630	ZATU694								
ZATU694~d 12B61		PC25								
16x IV: 14p; III: 2p	o0981631	ZATU694								
ZATU694~d@t 12B62		PC25								
2x IV: 2p	o0981632									
ZATU694~e		ZERO								
	o0981633	ZATU694								
ZATU695 12B63		PC25								
5x IV: 4p; III: 1u	o0981634	ZATU695								
ZATU696 12B64		PC25								
5x IV: 1p; III: 4p	o0981635	ZATU696								
ZATU697~a 12B65		PC25	 1 F21EF 2 F21F0 3 F21F1 4 F21F2	 12B65	 12B65	 12B65	 12B65	 12B65	 12B65	 F21F2
34x IV: 9p; III: 12p/12u	o0981636	ZATU697								
ZATU697~b 12B66		PC25								
7x IV: 3p/2u; III: 1p/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	o0981641	ZATU700								
ZATU701 12B69		PC25								
1x IV: 1p	o0981642	ZATU701								
ZATU702 12B6A		PC25								
3x IV: 1p; III: 2p	o0981643	ZATU702								

ZATU703 12B6B		PC25							12B6B
21× IV: 3p; III: 15p/3u	o0981644	ZATU703							12B6B
ZATU704		PC25-bk						F249C	
3× IV: 2p	o0981645	ZATU704						F249C	
ZATU705 12B6C		PC25						12B6C	
1× IV: 1p	o0981646	ZATU705						12B6C	
ZATU706 12B6D		PC25							
2× IV: 2p	o0981647	ZATU706							
ZATU707~a 12B6E		PC25							
11× IV: 1u; III: 9p/1u	o0981648	ZATU707							
ZATU707~b 12B6F		PC25							
2× IV: 2p	o0981649	ZATU707							
ZATU708 12B70		PC25						12B70	
2× IV: 1p; III: 1p	o0981650	ZATU708						12B70	
ZATU709 12B71		PC25						12B71	
1× IV: 1p	o0981651	ZATU709						12B71	
ZATU710 12B72		PC25						F21F4	
52× III: 46p/5u	o0981652	ZATU710						12B72	
ZATU711 12B73		PC25						F21F5	
6× IV: 3p; III: 1p/1u	o0981653	ZATU711						F21F5	
ZATU711~HI@g~a 12B74		PC25						12B74	
2× IV: 2p	o0981654	ZATU712						12B74	
ZATU711~X		PC25-bk						F249D	
1× IV: 1p	o0981655							F249D	
ZATU713 12B75		PC25						12B75	
7× IV: 7p	o0981656	ZATU713						12B75	
ZATU714 12B76		PC25						12B76	
40× IV: 2p/1u; III: 27p/10u	o0981657	ZATU714						12B76	
ZATU714.RU		PC25-sq						F228F	
1× IV: 1p	o0981658	ZATU716						F228F	

ZATU714~HI@g~a 12B77		PC25						
39x IV: 3p; III: 33p/3u	o0981659	ZATU715						
ZATU714~X		PC25-bk						
2x IV: 1p; III: 1u	o0981660							
ZATU717 12B78		PC25						
2x IV: 1p; III: 1p	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	o0981664	ZATU720						
ZATU721 12B7C		PC25						
2x IV: 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: 2p	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: 3p	o0981671	ZATU726						
ZATU726~d 12B82		PC25						
23x IV: 6p/1u; III: 13p/2u	o0981672	ZATU726						
ZATU727 12B83		PC25						
1x III: 1p	o0981673	ZATU727						
ZATU728 12B84		PC25						
9x III: 5p/4u	o0981674	ZATU728						

ZATU729 12B85		PC25	 12B85	 1 F21F8			 12B85	 F21F8			
7× IV: 6p; III: 1p	o0981675	ZATU729									
ZATU730 12B86		PC25	 12B86								
1× III: 1p	o0981676	ZATU730									
ZATU732 12B87		PC25	 12B87	 1 F21F9		 12B87				 F21F9	
8× III: 8p	o0981677	ZATU732									
ZATU733		UNP	 F24A0	 F24A0							
1× III: 1u	o0981678	ZATU733									
ZATU734 12B88		PC25	 12B88		 12B88		 12B88				
1× IV: 1p	o0981679	ZATU734									
ZATU735-a 12B89		PC25	 12B89		 12B89			 12B89		 12B89	
8× III: 5p/3u	o0981680	ZATU735									
ZATU735-b 12B8A		PC25	 1 F21FA	 2 F21FB	 12B8A	 12B8A	 F21FB	 12B8A			
20× IV: 3p; III: 14p/3u	o0981681	ZATU735									
ZATU735-c 12B8B		PC25	 12B8B		 12B8B				 12B8B		
1× III: 1p	o0981682	ZATU735									
ZATU736-a 12B8C		PC25	 12B8C		 12B8C		 12B8C			 12B8C	
2× IV: 1p; III: 1p	o0981683	ZATU736									
ZATU736-b 12B8D		PC25	 12B8D		 12B8D		 12B8D				
1× IV: 1p	o0981684	ZATU736									
ZATU737 12B8E		PC25	 12B8E	 1 F21FC	 12B8E	 12B8E	 12B8E				
4× IV: 1p; III: 2p/1u	o0981685	ZATU737		 2 F21FD							
ZATU737xAB~a 12B8F		PC25	 12B8F		 12B8F						
1× III: 1p	o0981686	ZATU738									
ZATU737xBU~a 12B90		PC25	 12B90		 12B90						
1× III: 1p	o0981687	ZATU738									
ZATU737xBUR~a 12B91		PC25	 12B91	 1 F21FE	 F21FE (o)	 12B91 (o)	 12B91 (o)	 12B91 (o)			
AKA: GABURRA 15× IV: 1p; III: 14p	o0981688	ZATU185		 1 F21FE							

ZATU737xDI 12B92		PC25	 1 						
26x IV: 1p; III: 23p/1u	o0981689	ZATU739							
ZATU737xE~a		UNP							
1x III: 1u	o0981690								
ZATU737xEN~a 12B93		PC25							
1x IV: 1p	o0981691	ZATU740							
ZATU737xEN~b 12B94		PC25							
1x IV: 1p	o0981692	ZATU740							
ZATU737xGAR 12B95		PC25	 1 2 						
AKA: ZATU741 5x IV: 2u; III: 3p	o0981693	ZATU741							
ZATU737xI		UNP							
1x III: 1u	o0981694								
ZATU737xNI~a@g 12B96		PC25	 1 						
1x III: 1p	o0981695								
ZATU737xNIMGIR 12B97		PC25							
2x IV: 1p; III: 1p	o0981696	ZATU742							
ZATU737xSAL 12B98		PC25							
33x IV: 1p/1u; III: 18p/13u	o0981697	ZATU743							
ZATU737xSU~a 12B99		PC25							
2x IV: 1p; III: 1p	o0981698	ZATU744							
ZATU737xŠE~a 12B9A		PC25							
1x IV: 1p	o0981699	ZATU745							
ZATU737xŠITA~a1 12B9B		PC25							
1x IV: 1p	o0981700								
ZATU737xŠITA~b1@g CDL: ZATU737xŠITA@g~a o0981701		EDI							
ZATU737xU_4 12B9C		PC25							
11x III: 9p/2u	o0981702	ZATU747							
ZATU737xUNUG~a 12B9D		PC25							
1x IV: 1p	o0981703	ZATU748							

ZATU737-x		PC25-bk						
14x III: 12p/2u	o0981704		F24A2		F24A2			
ZATU737-txPAP~a		UNP						
1x	o0981705		F251A					
ZATU749-a 12B9E		PC25						
13x IV: 1p; III: 7p/5u	o0981706	ZATU749		12B9E	1 F2203	2 F2204		
ZATU749-b 12B9F		PC25						
19x IV: 1u; III: 9p/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	F2208	F2205
						3 F2207		
						4 F2208		
						5 F2209		
15x IV: 4p/2u; III: 7p/2u	o0981709	ZATU750						
ZATU751-a 12BA2		PC25						
41x IV: 1p; III: 34p/6u	o0981710	ZATU751		12BA2		12BA2		12BA2
ZATU751-b 12BA3		PC25						
5x III: 5p	o0981711	ZATU751		12BA3		F220B		12BA3
ZATU751-c 12BA4		PC25						
1x III: 1p	o0981712			12BA4				
ZATU752 12BA5		PC25						
129x IV: 14p/1u; III: 83p/30u	o0981713	ZATU752		1 F220C	12BA5	F220C	12BA5	12BA5
ZATU753 12BA6		PC25						
231x IV: 22p/16u; III: 151p/37u	o0981714	ZATU753		12BA6		12BA6	12BA6	12BA6

ZATU754 12BA7		PC25						
3× IV: 3p	o0981715	ZATU754						
ZATU755~a 12BA8		PC25						
2× IV: 2p	o0981716	ZATU755						
ZATU755~b 12BA9		PC25						
3× IV: 1p; III: 2p	o0981717	ZATU755						
ZATU756 12BAA		PC25	 1 F220D					 F220D
19× IV: 1u; III: 11p/7u	o0981718	ZATU756	 1 F220D					 F220D
ZATU757 12BAB		PC25	 1 F220E			 1 F220E		 F220F
5× IV: 1u; III: 2p/2u	o0981719	ZATU757	 2 F220F	 2 F220F		 2 F220F		 F220F
ZATU758 12BAC		PC25						
26× IV: 18p/1u; III: 3p/1u	o0981720	ZATU758						
ZATU759 12BAD		PC25	 1 F2210	 1 F2210	 1 F2210	 1 F2210		
47× IV: 8p/2u; III: 29p/8u	o0981721	ZATU759	 1 F2210	 1 F2210		 1 F2210		
ZATU759×KU ₆ ~a 12BAE		PC25			 (o)	 (o)		
32× IV: 9p/1u; III: 15p/6u	o0981722	ZATU760			 (o)	 (o)		
ZATU759×(KU ₆ ~a+KU ₆ ~a) 12BAF		PC25						
1× III: 1p	o0981723							
ZATU759×KU ₆ ~d		UNP						
1× IV: 1u	o0981724	ZATU760	 F24A3	 F24A3		 F24A3		
ZATU759×X		PC25-bk						
2× IV: 1p; III: 1p	o0981725		 F24A4	 F24A4		 F24A4		
ZATU759@t×X		PC25-bk	 F24A5	 F24A5		 F24A5		
1× III: 1p	o0981726		 F24A5	 F24A5		 F24A5		
ZATU761		UNP						
1× III: 1u	o0981727	ZATU761	 F24A6	 F24A6		 F24A6		
ZATU762~a 12BB0		PC25	 1 F2211	 1 F2211	 2 F2212	 2 F2212	 12BB0	
7× IV: 2p/2u; III: 3p	o0981728	ZATU762	 12BB0	 12BB0		 12BB0		

ZATU762~a×NIM~a 12BB1		PC25						
2× IV: 1p/1u	o0981729	ZATU763	12BB1			12BB1		
ZATU762~b 12BB2		PC25						
5× IV: 3p/1u; III: 1p	o0981730	ZATU762	12BB2			12BB2		
ZATU762~b×AB~a 12BB3		PC25						
1× III: 1p	o0981731	ZATU163	12BB3			12BB3		
ZATU764 12BB4		PC25						
21× IV: 4p/2u; III: 12p/3u	o0981732	ZATU764	12BB4			12BB4		
ZATU765 12BB5		PC25						
1× IV: 1p	o0981733	ZATU765	12BB5			12BB5		
ZATU766 12BB6		PC25						
1× IV: 1p	o0981734	ZATU766	12BB6		12BB6			
ZATU767 12BB7		PC25						
1× IV: 1p	o0981735	ZATU767	12BB7			12BB7		
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		
ZATU772 12BB8		PC25						
1× III: 1p	o0981739	ZATU772	12BB8					
ZATU773~a 12BB9		PC25						
50× IV: 1u; III: 38p/10u	o0981740	ZATU773	1 F2213				12BB9	12BB9
ZATU773~b 12BBA		PC25						
8× IV: 1p; III: 2p/3u	o0981741	ZATU773	1 F2214					F2214
ZATU774 12BBB		PC25						
1× III: 1p	o0981742	ZATU774	12BBB					
ZATU775 12BBC		PC25						
1× III: 1p	o0981743	ZATU775	12BBC					
ZATU776 12BBD		PC25						
20× IV: 3p; III: 13p/4u	o0981744	ZATU776	1 F2215				F2216	12BBD
			2 F2216					

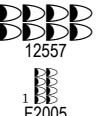
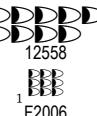
ZATU777 12BBE		PC25	 12BBE 1 F2217 2 F2218	 F2217				 F2217
18x III: 15p/3u	o0981745	ZATU777						
ZATU778 12BBF		PC25	 12BBF					
4x III: 2p/2u	o0981746	ZATU778						
ZATU779		ZERO	 o0981747	 ZATU779	 F24AA			
ZATU780 12BC0		PC25	 12BC0					
2x IV: 2p	o0981748	ZATU780						
ZATU781 12BC1		PC25	 12BC1					
1x III: 1p	o0981749	ZATU781						
ZATU782 12BC2		PC25	 12BC2					
3x III: 3p	o0981750	ZATU782						
ZATU783 12BC3		PC25	 12BC3					
2x III: 1p/1u	o0981751	ZATU783						
ZATU784 12BC4		PC25	 12BC4					
1x III: 1p	o0981752	ZATU784						
ZATU785		PC25-bk	 F24AB					
1x III: 1p	o0981753	ZATU785						
ZATU786 12BC5		PC25	 12BC5		 12BC5			
9x IV: 1u; III: 5p/3u	o0981754	ZATU786						
ZATU787 12BC6		PC25	 12BC6					 12BC6
1x III: 1p	o0981755	ZATU787						
ZATU788 12BC7		PC25	 12BC7					 12BC7
27x III: 27p	o0981756	ZATU788						
ZATU789		ZERO	 o0981757	 ZATU789	 F24AC			
ZATU791 12BC8		PC25	 12BC8					
2x IV: 1u; III: 1p	o0981758	ZATU791						
ZATU792 12BC9		PC25	 12BC9					
1x III: 1p	o0981759	ZATU792						
ZATU795 12BCA		PC25	 12BCA					
23x III: 6p/17u	o0981760	ZATU795						
ZATU797 12BCB		PC25	 12BCB					 12BCB
2x III: 1p/1u	o0981761	ZATU797						

ZATU798 12BCC		PC25		12BCC					12BCC	
1× III: 1p	o0981762	ZATU798								
ZATU799 12BCD		PC25		12BCD					12BCD	
3× III: 1p/2u	o0981763	ZATU799								
ZATU800 12BCE		PC25		12BCE					12BCE	
2× III: 2p	o0981764	ZATU800								
ZATU801 12BCF		PC25		12BCF						
4× III: 4p	o0981765	ZATU801								
ZATU802 12BD0		PC25		12BD0						
1× IV: 1p	o0981766	ZATU802								
ZATU802-b 12BD1		PC25		12BD1						12BD1
1× III: 1p	o0981767	ZATU802								
ZATU803 12BD2		PC25		12BD2						
1× IV: 1p	o0981768	ZATU803								
ZATU804 12BD3		PC25		12BD3						
1× IV: 1p	o0981769	ZATU804								
ZATU805		UNP		F24AD						
2× III: 2u	o0981770	ZATU805								
ZATU806 12BD4		PC25		12BD4		12BD4				
1× III: 1p	o0981771	ZATU806								
ZATU807 12BD5		PC25		12BD5						
1× IV: 1p	o0981772	ZATU807								
ZATU808 12BD6		PC25		12BD6						
1× III: 1p	o0981773	ZATU808								
ZATU809 12BD7		PC25		12BD7						
7× III: 6p	o0981774	ZATU809								
ZATU810 12BD8		PC25		12BD8						
1× III: 1p	o0981775	ZATU810								
ZATU811 12BD9		PC25		12BD9					12BD9	
7× IV: 1p; III: 2p/4u	o0981776	ZATU811								
ZATU812 12BDA		PC25		12BDA					12BDA	
1× III: 1p	o0981777	ZATU812								
ZATU813 12BDB		PC25		12BDB						
1× III: 1p	o0981778	ZATU813								
ZATU814		UNP		F24AE						
1× III: 1u	o0981779	ZATU814								

ZATU815		UNP						
1x III: 1u	o0981780	ZATU815	F24AF					
ZATU817		PC25-bk				F24B0		
1x IV: 1p	o0981781	ZATU817	F24B0			F24B0		
ZATU818		PC25-bk				F24B1		
1x IV: 1p	o0981782	ZATU818	F24B1			F24B1		
ZATU819 12BDC		PC25						
7x III: 1p/6u	o0981783	ZATU819	12BDC					
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		UNP						
2x III: 2u	o0981793		F24BB					
ZATU832 12BDD		PC25						
3x III: 1p/2u	o0981794	ZATU832	12BDD					
ZATU833 12BDE		PC25						
1x IV: 1p	o0981795	ZATU833	12BDE					
ZATU834 12BDF		PC25						
1x IV: 1p	o0981796	ZATU834	12BDF					
ZATU835 12BE0		PC25						
1x III: 1p	o0981797	ZATU835	12BE0					
ZATU836 12BE1		PC25						
2x III: 1p/1u	o0981798	ZATU836	12BE1					
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					
ZATU847 12BE2		PC25						
6x III: 2p/4u	o0981810	ZATU847	12BE2					
ZATU848		UNP						
1x III: 1u	o0981811	ZATU848	F24C6					
ZATU849		UNP						
2x III: 2u	o0981812	ZATU849	F24C7					
ZATU850 12BE3		PC25						
4x III: 4p	o0981813	ZATU850	12BE3					
ZATU851 12BE4		PC25						
1x III: 1p	o0981814	ZATU851	12BE4					
ZATU852		UNP						
1x III: 1u	o0981815	ZATU852	F24C8					
ZATU853		UNP						
3x III: 3u	o0981816	ZATU853	F24C9					
ZATU854 12BE5		PC25						
1x III: 1p	o0981817	ZATU854	12BE5					

ZATU855		UNP						
1x III: 1u	o0981818	ZATU855	F24CA					
ZATU856		UNP						
1x III: 1u	o0981819	ZATU856	F2522					
ZATU857		UNP						
1x III: 1u	o0981820	ZATU857	F2524					
ZATU858 12BE6		PC25						
1x III: 1p	o0981821	ZATU858	12BE6					
ZATU859 12BE7		PC25						 12BE7
1x III: 1p	o0981822	ZATU859	12BE7					
2(LAGAB~a) 12BE8	○	PC25	○	○				
4x III: 4p	o0981823		12BE8					
3(LAGAB~a) 12BE9	○○	PC25	○○					
1x III: 1p	o0981824		12BE9					
4(LAGAB~a) 12BEA	○○	PC25	○○	○○				
2x III: 2p	o0981825		12BEA					
5(LAGAB~a)		NUM	○○					
	o0981826		F2543					
6(LAGAB~a) 12BEB	○○ ○○	PC25	○○ ○○ ○○					
1x III: 1p	o0981827							
1(N01)		ACN						
12971x IV: 1442p/317u; III: 8793p/2277u	o0981828		12550					
2(N01)		ACN						
3138x IV: 583p/168u; III: 1501p/763u	o0981829		12551 					
3(N01)		ACN						
1630x IV: 326p/78u; III: 725p/438u	o0981830		12552 					
4(N01)		ACN						
1151x IV: 222p/65u; III: 533p/269u	o0981831		12553 					
5(N01)		ACN						
1326x IV: 254p/66u; III: 681p/267u	o0981832		12554 					
6(N01)		ACN						
597x IV: 133p/42u; III: 252p/146u	o0981833		12555 					
7(N01)		ACN						
379x IV: 84p/22u; III: 159p/98u	o0981834		12556 					
			1 F2004					

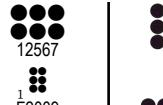
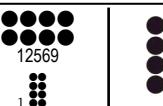
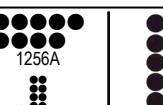
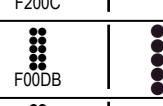
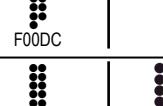
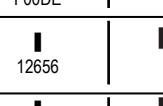
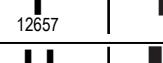
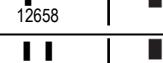
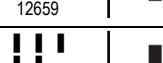
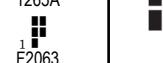
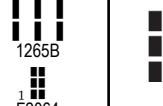
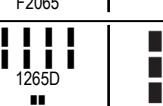
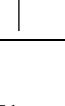
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364× IV: 66p/29u; III: 175p/80u	o0981835								
9(N01)		ACN							
247× IV: 56p/15u; III: 98p/62u	o0981836								
10(N01)		PC25							
2× III: 2p	o0981837								
1(N01@f)		ACN							
11× III: 11p	o0981838								
2(N01@f)		ACN							
3× III: 3p	o0981839								
3(N01@f)		ACN							
1×	o0981840								
4(N01@f)		ACN							
1×	o0981841								
5(N01@f)		ACN							
1× III: 1p	o0981842								
6(N01@f)		ACN							
1× IV: 1u	o0981843								
7(N01@f)		ACN							
o0981844									
8(N01@f)		ACN							
1×	o0981845								
9(N01@f)		ACN							
o0981846									
1(N01@r)		ACN							
2× IV: 1p	o0981847								
1(N02)		ACN							
165× IV: 45p/10u; III: 71p/38u	o0981848	ZATU606							

2(N02)		ACN	125BF 1 F2029					
99x IV: 28p/20u; III: 39p/10u	o0981849							
3(N02)		ACN	125C0 1 F202A					
44x IV: 16p/1u; III: 18p/9u	o0981850							
4(N02)		ACN	125C1					
30x IV: 3p/4u; III: 19p/1u	o0981851							
5(N02)		ACN	125C2 1 F202B					
24x IV: 8p/1u; III: 5p/9u	o0981852							
6(N02)		ACN	125C3 1 F202C					
15x IV: 3p/1u; III: 10p/1u	o0981853							
7(N02)		ACN	125C4 1 F202D					
5x IV: 2p/1u; III: 2p	o0981854							
8(N02)		ACN	125C5 1 F202E					
5x IV: 3p; III: 2p	o0981855							
9(N02)		ACN	125C6 1 F202F					
5x IV: 2p/1u; III: 1p/1u	o0981856							
1(N03)		ACN	125EF					
68x IV: 2p/1u; III: 63p/2u	o0981857							
2(N03)		ACN	125F0 1 F2036					
40x IV: 2p; III: 36p/2u	o0981858							
3(N03)		ACN	125F1 1 F2037					
34x IV: 1p; III: 32p/1u	o0981859							
4(N03)		ACN	125F2					
19x IV: 1p; III: 16p/2u	o0981860							
5(N03)		ACN	125F3 1 F2038					
8x III: 8p	o0981861							
1(N04)		ACN	12606					
145x IV: 2p/1u; III: 119p/22u	o0981862	ZATU618						

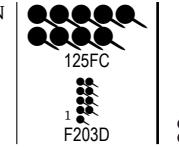
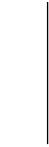
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3(N04)	ACN	 12608 	 1				
58x IV: 1p/1u; III: 52p/4u	o0981864						
4(N04)	ACN	 12609 	 1				
36x IV: 1p; III: 32p/2u	o0981865						
5(N04)	ACN	 1260A 	 1				
26x IV: 1u; III: 22p/3u	o0981866						
1(N04@f)	ACN	 12676					
	o0981867						
2(N04@f)	ACN	 12677 	 1				
	o0981868						
3(N04@f)	ACN	 12678	 1				
	o0981869						
4(N04@f)	ACN	 12679	 1				
	o0981870						
5(N04@f)	ACN	 1267A 	 1				
	o0981871						
1(N05)	ACN	 12631					
104x IV: 10p/1u; III: 77p/1u	o0981872						
2(N05)	ACN	 12632 	 1				
62x IV: 7p/1u; III: 46p/6u	o0981873						
3(N05)	ACN	 12633 	 1				
42x IV: 4p; III: 30p/8u	o0981874						
4(N05)	ACN	 12634	 1				
41x IV: 3p; III: 33p/5u	o0981875						
5(N05)	ACN	 12635 	 1				
29x IV: 2p; III: 21p/6u	o0981876						
1(N06)	ACN	 125D1					
10x III: 6p/4u	o0981877						
2(N06)	ACN	 125D2					
	o0981878						

3(N06)	ACN						
	o0981879						
4(N06)	ACN						
	o0981880						
5(N06)	ACN						
	o0981881						
6(N06)	ACN						
	o0981882						
7(N06)	ACN						
	o0981883						
8(N06)	ACN						
	o0981884						
9(N06)	ACN						
	o0981885						
1(N07A)	ACN						
AKA: 1(N07~a) 15x IV: 15p	o0981886						
2(N07A)	ACN						
AKA: 2(N07~a) 12x IV: 11p; III: 1p	o0981887						
3(N07A)	ACN						
AKA: 3(N07~a) 9x IV: 9p	o0981888						
1(N07B)	ACN						
AKA: 1(N07~b) 4x IV: 4p	o0981889						
2(N07B)	ACN						
AKA: 2(N07~b) 3x IV: 3p	o0981890						
3(N07B)	ACN						
AKA: 3(N07~b) 3x IV: 2p/1u	o0981891						
1(N08)	ACN						
287x IV: 51p/5u; III: 157p/74u	o0981892						
2(N08)	ACN						
35x IV: 6p; III: 23p/6u	o0981893						
3(N08)	ACN						
31x IV: 1p/1u; III: 18p/11u	o0981894						
4(N08)	ACN						
20x IV: 3p; III: 13p/3u	o0981895						
5(N08)	ACN						
23x IV: 2p/1u; III: 14p/6u	o0981896						
6(N08)	ACN						
10x IV: 1u; III: 8p/1u	o0981897						

7(N08)		ACN							
5× III: 4p/1u	o0981898		1255F						
8(N08)		ACN							
7× III: 7p	o0981899		12560						
9(N08)		ACN							
3× IV: 1p; III: 2p	o0981900		12561						
1(N08-b)		NUM							
1× III: 1u	o0981901		F00F5						
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	o0981909		12643						
1(N11)		ACN							
4× IV: 4p	o0981910		12644						
1(N12)		ACN							
1× IV: 1p	o0981911		12645						
1(N14)		ACN							
2594× IV: 460p/187u; III: 1358p/491u	o0981912	ZATU564	12562						
2(N14)		ACN							
1375× IV: 264p/91u; III: 672p/293u	o0981913		12563						
3(N14)		ACN							
807× IV: 138p/50u; III: 437p/151u	o0981914		12564						
4(N14)		ACN							
530× IV: 99p/29u; III: 266p/113u	o0981915		12565						
5(N14)		ACN							
386× IV: 29p/19u; III: 229p/77u	o0981916		12566						
			F2008						

6(N14)		ACN								
100× IV: 12p/3u; III: 62p/21u	o0981917		12567 1 F2009							
7(N14)		ACN								
79× IV: 5p; III: 54p/17u	o0981918		12568 1 F200A							
8(N14)		ACN								
72× IV: 4p; III: 61p/4u	o0981919		12569 1 F200B							
9(N14)		ACN								
43× III: 38p/4u	o0981920		1256A 1 F200C							
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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	 1265E 1 F2067					
o0981933							
10(N14@f)	OOR						
o0981934							
1(N15) 13× IV: 1p; III: 10p/2u	ACN	 125C7	 1				
o0981935							
2(N15)	ACN	 125C8	 1				
8× IV: 1p; III: 5p/2u	o0981936						
3(N15)	ACN	 125C9	 1				
4× IV: 1p; III: 2p/1u	o0981937						
4(N15)	ACN	 125CA	 1				
1× III: 1u	o0981938						
5(N15)	ACN	 125CB 1 F2030	 1				
3× III: 3p	o0981939						
1(N16)	ACN	 F00FB	 1				
9× IV: 1p; III: 7p/1u	o0981940						
1(N17)	ACN	 F00FC	 1				
1× III: 1p	o0981941						
1(N18)	ACN	 125F4	 1				
19× IV: 3p/1u; III: 15p	o0981942						
2(N18)	ACN	 125F5	 1				
14× III: 13p/1u	o0981943						
3(N18)	ACN	 125F6	 1				
6× III: 6p	o0981944						
4(N18)	ACN	 125F7	 1				
2× III: 2p	o0981945						
5(N18)	ACN	 125F8 1 F2039	 1				
3× III: 3p	o0981946						
6(N18)	ACN	 125F9 1 F203A	 1				
2× IV: 1p; III: 1p	o0981947						
7(N18)	ACN	 125FA 1 F203B	 1				
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8(N18)	ACN	 125FB 1 F203C	 1				
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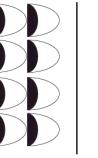
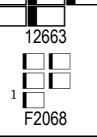
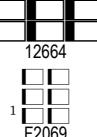
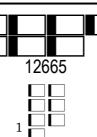
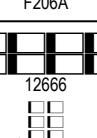
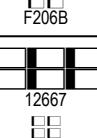
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87× IV: 2p/1u; III: 77p/6u	o0981951								
2(N19)		ACN							
81× IV: 4p/1u; III: 69p/6u	o0981952								
3(N19)		ACN							
52× IV: 2p; III: 47p/3u	o0981953								
4(N19)		ACN							
33× III: 29p/4u	o0981954								
5(N19)		ACN							
40× III: 34p/4u	o0981955								
6(N19)		ACN							
20× III: 18p/2u	o0981956								
7(N19)		ACN							
22× IV: 2p; III: 18p/2u	o0981957								
8(N19)		ACN							
16× III: 14p/2u	o0981958								
9(N19)		ACN							
10× III: 9p/1u	o0981959								
1(N19@f)		ACN							
	o0981960								
2(N19@f)		ACN							
	o0981961								
3(N19@f)		ACN							
	o0981962								
4(N19@f)		ACN							
	o0981963								
5(N19@f)		ACN							
	o0981964								

6(N19@f)	ACN						
	o0981965	1 F2076					
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	o0981966	1 F2077					
8(N19@f)	ACN						
	o0981967	1 F2078					
9(N19@f)	ACN						
	o0981968	1 F2079					
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	o0981969	12636					
2(N20) 50x IV: 7p/1u; III: 29p/13u	ACN						
	o0981970	12637					
3(N20) 24x IV: 4p; III: 17p/3u	ACN						
	o0981971	12638					
4(N20) 17x IV: 2p; III: 11p/4u	ACN						
	o0981972	12639					
5(N20) 12x IV: 1p; III: 5p/6u	ACN						
	o0981973	1263A 1 F2055					
6(N20) 9x III: 8p/1u	ACN						
	o0981974	1263B 1 F2056					
7(N20) 4x IV: 1p; III: 3p	ACN						
	o0981975	1263C 1 F2057					
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	o0981976	1263D 1 F2058					
9(N20) 5x IV: 1p; III: 4p	ACN						
	o0981977	1263E 1 F2059					
1(N21)	ACN						
	o0981978	125DA					

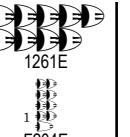
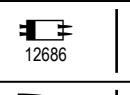
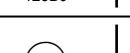
2(N21)		ACN							
5× III: 5p	o0981979		125DB						
3(N21)		ACN							
9× III: 8p/1u	o0981980		125DC						
4(N21)		ACN							
4× III: 4p	o0981981		125DD						
5(N21)		ACN							
2× III: 2p	o0981982		125DE						
6(N21)		PC25							
1× IV: 1p	o0981983		F00EO						
1(N22)		ACN							
89× IV: 2p; III: 45p/41u	o0981984		1258C						
2(N22)		ACN							
56× IV: 1p; III: 31p/23u	o0981985		1258D						
1(N22~v)		PC25							
1× III: 1p	o0981986		F00FD						
1(N22@f)		ACN							
	o0981987		1266A						
2(N22@f)		ACN							
	o0981988		1266B						
1(N23)		Pelm							
2× III: 1p/1u	o0981989		F00FE						
2(N23)		Pelm							
1× III: 1p	o0981990		F00FF						
3(N23)		Pelm							
1× III: 1p	o0981991		F0100						
5(N23)		Pelm							
1×	o0981992								
7(N23)		Pelm							
1× III: 1p	o0981993		F0102						
1(N24)		ACN							
AKA: 1(N24') 1(N24'')				125AA					
357× IV: 28p/11u; III: 284p/33u	o0981994								
2(N24)		NUM							
	o0981995								
4(N24)		NUM							
	o0981996			F0104					
6(N24)		NUM							
1× IV: 1u	o0981997			F0105					
1(N24@f)		PC25							
2× III: 2p	o0981998			F0106					

1(N24A) AKA: 1(N24~a) 28x III: 28p	ACN o0981999	 125EA						
1(N24B) AKA: 1(N24~b) 18x III: 15p/3u	ACN o0982000	 125FE						
1(N25) 150x IV: 5p; III: 128p/16u	ACN o0982001	 12623						
1(N26) 45x IV: 9p/1u; III: 27p/7u	ACN o0982002	 125AB  F2026						
1(N26B) AKA: 1(N26~b) 1x III: 1p	ACN o0982003	 125FF						
1(N27) 13x IV: 1p; III: 12p	ACN o0982004	 12624  F2051						
1(N28) 91x IV: 17p/1u; III: 66p/6u	ACN o0982005	 125AC						
1(N28B) AKA: 1(N28~b) 2x III: 2p	ACN o0982006	 12600						
1(N28C) AKA: 1(N28~c) 38x IV: 1p; III: 31p/6u	ACN o0982007	 12625						
1(N29A) AKA: 1(N29) 1(N29~a) 57x IV: 4p; III: 51p/2u	ACN o0982008	 125AD  F2027						
2(N29A) AKA: 2(N29~a) 4x III: 4p	PC25 o0982009	 F0107						
1(N29AB) AKA: 1(N29A~b) 1(N29A~b) 1x III: 1p	ACN o0982010	 12601						
2(N29AB) AKA: 2(N29A~b) 2x III: 2p	PC25 o0982011	 F010A						
1(N29AC) AKA: 1(N29A~c) 3x III: 2p/1u	ACN o0982012	 12626						
1(N29B) AKA: 1(N29~b) 6x IV: 2p; III: 4p	ACN o0982013	 125AE						
1(N30A) AKA: 1(N30~a) 52x IV: 3p; III: 49p	ACN o0982014	 125AF  F2028						
1(N30AC) AKA: 1(N30A~c) 4x III: 4p	ACN o0982015	 12627						

1(N30B) AKA: 1(N30~b) 2× III: 2p	PC25 o0982016						
1(N30C) AKA: 1(N30~c) 47× IV: 1p; III: 43p/3u	ACN o0982017						
1(N30CA) AKA: 1(N30C~a) 1(N30C~a) 1× III: 1p	PC25 o0982018						
1(N30CB) o0982019	NUM						
1(N30CC) AKA: 1(N30C~c) 1× III: 1u	ACN o0982020						
1(N30D) AKA: 1(N30~d) 2× IV: 2p	ACN o0982021						
1(N30E) AKA: 1(N30~e) 1× III: 1p	ACN o0982022						
1(N31) 3× IV: 1p; III: 2p	ACN o0982023						
1(N32) 3× IV: 2p/1u	ACN o0982024						
1(N33) 1× IV: 1p	ACN o0982025						
1(N34) 1020× IV: 233p/94u; III: 483p/179u	ACN o0982026						
 1(N34)×1(N58) 1× III: 1p	PC25 o0982027						
2(N34) 344× IV: 67p/17u; III: 173p/65u	ACN o0982028	 	 				
3(N34) 175× IV: 36p/15u; III: 73p/38u	ACN o0982029	 	 				
4(N34) 109× IV: 23p/10u; III: 56p/19u	ACN o0982030	 	 				
5(N34) 112× IV: 17p/9u; III: 51p/19u	ACN o0982031	 	 				
6(N34) 54× IV: 9p/5u; III: 25p/13u	ACN o0982032	 	 				

7(N34)		ACN							
28x IV: 5p/4u; III: 12p/7u	o0982033								
8(N34)		ACN							
24x IV: 4p/4u; III: 6p/10u	o0982034								
9(N34)		ACN							
14x IV: 4p/1u; III: 8p/1u	o0982035								
1(N34@f)		ACN							
1x IV: 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 III: 1p	o0982042								
8(N34@f)		ACN							
	o0982043								
9(N34@f)		ACN							
	o0982044								
1(N34@f@t)		ACN							
	o0982045								

1(N35)	ACN	 125CC					
5× IV: 2p; III: 2p/1u o0982046							
2(N35)	ACN	 125CD  F2031					
1× III: 1p o0982047							
3(N35)	ACN	 125CE					
o0982048							
4(N35)	ACN	 125CF					
o0982049							
5(N35)	ACN	 125D0  F2032					
1× III: 1p o0982050							
1(N36)	ACN	 12616					
43× IV: 4p; III: 29p/9u o0982051							
2(N36)	ACN	 12617  F2048					
10× IV: 4p; III: 5p/1u o0982052							
3(N36)	ACN	 12618  F2049					
7× IV: 1p; III: 4p/2u o0982053							
4(N36)	ACN	 12619					
3× IV: 1p; III: 2p o0982054							
5(N36)	ACN	 1261A  F204A					
1× IV: 1p o0982055							
6(N36)	ACN	 1261B  F204B					
2× III: 2u o0982056							
7(N36)	ACN	 1261C  F204C					
o0982057							
8(N36)	ACN	 1261D  F204D					
o0982058							

9(N36)	ACN							
2× III: 2p	o0982059							
1(N36@f)	ACN							
	o0982060							
1(N37)	ACN							
6× IV: 1u; III: 4p/1u	o0982061							
2(N37)	ACN							
								
1× III: 1p	o0982062							
1(N38)	ACN							
30× IV: 4p/1u; III: 24p/1u	o0982063							
1(N39A)	ACN							
AKA: 1(N39~a) 211× IV: 7p/4u; III: 181p/18u	o0982064							
2(N39A)	ACN							
AKA: 2(N39~a) 189× IV: 2p; III: 170p/17u	o0982065							
3(N39A)	ACN							
AKA: 3(N39~a) 89× IV: 2p/1u; III: 76p/10u	o0982066							
4(N39A)	ACN							
AKA: 4(N39~a) 55× III: 53p/2u	o0982067							
1(N39B)	ACN							
AKA: 1(N39~b) 14× IV: 9p/4u	o0982068							
2(N39B)	ACN							
AKA: 2(N39~b) 11× IV: 5p/3u	o0982069							
3(N39B)	ACN							
AKA: 3(N39~b) 5× IV: 3p/1u	o0982070							
4(N39B)	ACN							
AKA: 4(N39~b) 8× IV: 4p/1u	o0982071							
1(N40)	ACN							
40× III: 39p/1u	o0982072							
2(N40)	ACN							
36× IV: 1p; III: 35p	o0982073							
3(N40)	ACN							
27× III: 26p	o0982074							
4(N40)	ACN							
16× III: 16p	o0982075							

1(N41)		ACN							
24× IV: 1p; III: 23p	o0982076		12602						
2(N41)		ACN							
27× III: 27p	o0982077		12603						
3(N41)		ACN							
20× III: 20p	o0982078		12604						
4(N41)		ACN							
17× III: 16p/1u	o0982079		12605						
1(N42A)		ACN							
AKA: 1(N42~a) 130× IV: 2p/1u; III: 115p/12u	o0982080		12629						
2(N42A)		ACN							
AKA: 2(N42~a) 89× IV: 1p; III: 77p/6u	o0982081		1262A						
3(N42A)		ACN							
AKA: 3(N42~a) 52× IV: 1p; III: 39p/12u	o0982082		1262B						
4(N42A)		ACN							
AKA: 4(N42~a) 25× IV: 5p; III: 18p/2u	o0982083		1262C						
1(N42B)		ACN							
	o0982084		1262D						
2(N42B)		ACN							
AKA: 2(N42~b) 3× IV: 3p	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: 24p/5u; III: 219p/60u	o0982091		12579						
2(N45)		ACN							
137× IV: 7p/3u; III: 89p/32u	o0982092		1257A F2017						
3(N45)		ACN							
13× IV: 2p; III: 6p/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		1257F							
8(N45)		ACN								
	o0982098		12580							
9(N45)		ACN								
1× III: 1p	o0982099		12581							
1(N45@f)		ACN								
	o0982100		12668							
2(N45@f)		ACN								
	o0982101		12669							
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							
1(N45A)		ACN								
AKA: 1(N45~a)			125FD							
1× III: 1p	o0982109									

1(N46) 99× IV: 5p; III: 72p/22u	ACN o0982110	 12614						
2(N46) 40× IV: 2p; III: 32p/6u	ACN o0982111	 12615  F2047						
3(N46) 1× III: 1p	PC25 o0982112	 F00E9						
1(N46@f) o0982113	ACN	 12684						
2(N46@f) o0982114	ACN	 12685						
1(N47) 15× IV: 4p/1u; III: 10p	ACN o0982115	 1263F						
2(N47) 11× IV: 2p; III: 8p/1u	ACN o0982116	 12640  F205A						
3(N47) 1× IV: 1u	OOR o0982117	 F00EA						
1(N48) 105× IV: 33p/9u; III: 36p/20u	ACN o0982118	 12574						
2(N48) 45× IV: 11p/10u; III: 16p/4u	ACN o0982119	 12575  F2014						
3(N48) 17× IV: 3p/1u; III: 7p/5u	ACN o0982120	 12576  F2015						
4(N48) 13× IV: 2u; III: 7p/4u	ACN o0982121	 12577						
5(N48) 4× IV: 3u; III: 1u	ACN o0982122	 12578  F2016						
6(N48) 2× IV: 2u	OOR o0982123	 F00EB						
7(N48) 1× IV: 1u	OOR o0982124	 F00EC						
1(N48@f) o0982125	NUM							
1(N49) 8× IV: 1p; III: 6p/1u	ACN o0982126	 1261F						

2(N49)	ACN	 12620  1  F204F					
3x IV: 1p; III: 1p/1u o0982127							
3(N49)	ACN	 12621  1  F2050					
4x IV: 1p; III: 3p o0982128							
4(N49)	ACN	 12622  1 					
2x III: 1p/1u o0982129							
5(N49)	OOR	 1  F00ED					
o0982130							
1(N50)	ACN	 12582					
82x IV: 1u; III: 42p/36u o0982131							
2(N50)	ACN	 12583  1  F201C	 				
35x IV: 2p/1u; III: 19p/13u o0982132							
3(N50)	ACN	 12584  1 	 				
22x III: 16p/6u o0982133							
4(N50)	ACN	 12585  1 	 				
23x III: 15p/8u o0982134							
5(N50)	ACN	 12586  1  F201D	 				
9x III: 5p/3u o0982135							
1(N51)	ACN	 1259A					
107x IV: 34p/14u; III: 44p/15u o0982136							
2(N51)	ACN	 1259B  1  F201E	 				
46x IV: 10p/7u; III: 21p/8u o0982137							
3(N51)	ACN	 1259C  1 	 				
17x IV: 5p/2u; III: 8p/2u o0982138							
4(N51)	ACN	 1259D  1 	 				
11x IV: 2p; III: 5p/4u o0982139							
5(N51)	ACN	 1259E  1  F201F	 				
18x IV: 2p/2u; III: 8p/6u o0982140							
6(N51)	ACN	 1259F  1  F2020	 				
6x IV: 1u; III: 2p/3u o0982141							

7(N51)	ACN						
2x IV: 1p; III: 1p	o0982142						
8(N51)	ACN						
2x IV: 1p; III: 1p	o0982143						
9(N51)	ACN						
	o0982144						
1(N51@f)	ACN						
	o0982145						
2(N51@f)	ACN						
	o0982146						
3(N51@f)	ACN						
	o0982147						
4(N51@f)	ACN						
	o0982148						
5(N51@f)	ACN						
	o0982149						
6(N51@f)	ACN						
	o0982150						
7(N51@f)	ACN						
	o0982151						
8(N51@f)	ACN						
	o0982152						
9(N51@f)	ACN						
	o0982153						
1(N52)	ACN						
27x IV: 1p/2u; III: 20p/4u	o0982154						

2(N52)		ACN	 125E1 F2034	 125E2					
10× III: 10p	o0982155								
3(N52)		ACN	 125E3	 125E4 F2035					
4× IV: 1p; III: 2p/1u	o0982156								
2× IV: 1p; III: 1p	o0982157								
5(N52)		ACN	 125E5	 125E6					
1× IV: 1p	o0982158								
6(N52)		ACN	 125E7						
	o0982159								
7(N52)		ACN	 125E8						
	o0982160								
8(N52)		ACN	 125A3						
	o0982161								
9(N52)		ACN	 125A4 F2023						
1× IV: 1p	o0982162								
3(N53)		PC25	 F00EE	 F00EE					
1× IV: 1p	o0982163								
1(N54)		ACN	 125A5	 125A6					
18× IV: 7p/1u; III: 3p/7u	o0982164								
2(N54)		ACN	 125A7 F2024	 125A8					
4× IV: 3p; III: 1p	o0982165								
3(N54)		ACN	 125A9 F2025	 125A10					
3× IV: 1p; III: 2p	o0982166								
4(N54)		ACN	 125A11	 125A12					
	o0982167								
5(N54)		ACN	 125A13	 125A14					
3× III: 3p	o0982168								
1(N55)		PC25	 F00EF	 F00EF					
1× IV: 1p	o0982169								
1(N56)		ACN	 125A15	 125A16					
	o0982170								
2(N56)		ACN	 125A17	 125A18					
1× III: 1p	o0982171								

1(N57) 12BEC	—	PC25	—					
AKA: AŠ 507×			12BEC					
IV: 70p/19u; III: 275p/139u	o0982172	ZATU037						
2(N57) 12BED	=	PC25	=	12BED	=			
161×								
IV: 15p/2u; III: 107p/35u	o0982173	ZATU546	1	F2224				
3(N57) 12BEE	≡	PC25	≡	12BEE	≡			
551×								
IV: 20p/9u; III: 373p/139u	o0982174	ZATU146						
4(N57) 12BEF	≡	PC25	≡	12BEF	≡			
46×	IV: 4p/1u; III: 34p/7u	o0982175						
5(N57) 12BF0	≡≡	PC25	≡≡	12BF0	≡≡			
62×	IV: 6p; III: 48p/8u	o0982176						
6(N57) 12BF1	≡≡	PC25	≡≡	12BF1	≡≡			
21×	IV: 2p; III: 16p/3u	o0982177		1	F2225	≡≡		
7(N57) 12BF2	≡≡	PC25	≡≡	12BF2	≡≡			
9×	IV: 1p; III: 7p	o0982178		1	F2226	≡≡		
8(N57) 12BF3	≡≡	PC25	≡≡	12BF3	—	—		
5×	III: 3p/1u	o0982179						
9(N57) 12BF4	≡≡	PC25	≡≡	12BF4	≡≡			
2×	III: 2p	o0982180						
10(N57) 12BF5	≡≡	PC25	≡≡	12BF5	—	—		
1×	III: 1p	o0982181						
1(N58) 12BF6		PC25		12BF6				
AKA: DIŠ 189×								
IV: 36p/16u; III: 100p/36u	o0982182	ZATU081						
2(N58) 12BF7		PC25		12BF7				
11×	IV: 4p/1u; III: 4p/2u	o0982183						
3(N58) 12BF8		PC25		12BF8				
9×	IV: 4p; III: 2p/3u	o0982184						
4(N58) 12BF9		PC25		12BF9				
4×	IV: 2u; III: 1p/1u	o0982185						
5(N58) 12BFA		PC25		12BFA				
2×	IV: 2u	o0982186						

8(N58) 12BFB	1x III: 1u	o0982187	PC25
9(N58) 12BFC	1x III: 1p	o0982188	PC25
10(N58) 12BFD	2x III: 2p	o0982189	PC25
12(N58) 12BFE	1x III: 1p	o0982190	PC25
1(N58@t) 12BFF	AKA: 1(N58)@t 2x IV: 1p; III: 1p	o0982191	PC25
1(N59)	1x III: 1p	o0982192	PC25
2(N59)	1x III: 1p	o0982193	PC25
3(N59)	18x III: 11p/7u	o0982194	PC25
4(N59)	3x III: 2p/1u	o0982195	PC25
6(N59)	3x III: 3p	o0982196	PC25
7(N59)	1x III: 1p	o0981906	PC25
1(N60)	4x III: 4p	o0982198	ACN
3(N61)	1x III: 1p	o0982199	PC25
4(N62)	1x III: 1p	o0982200	PC25
1(N63)	2x III: 2u	o0982201	NUM
 1(N57).AB₂ 	1x III: 1u	o0982202	UNP
 2(N57).AB₂ 	1x IV: 1p	o0982203	PC25-sq
 3(N57).AMAR 	2x III: 1p/1u	o0982204	PC25-sq
 4(N57).AMAR 	1x III: 1p	o0982205	PC25-sq
 3(N57).AZ 	3x III: 3p	o0982206	PC25-sq

3(N57).BARxUŠ~a	ZERO							
	o0982207							
3(N57).BARA ₃	UNP							
1× III: 1u	o0982208	F2295						
2(N57).BIR ₃ ~a	PC25-sq							
1× III: 1p	o0982209	F2296						
1(N57).BU ₃	PC25-sq							
1× III: 1p	o0982210	F2297						
1(N57).E ₂ ~a	ZERO							
	o0982211	F2297						
3(N57).E ₂ ~b	UNP							
1× III: 1u	o0982212	F2221	1 F2222					
3(N57).EN ₂	PC25-sq							
6× III: 6p	o0982213	12BEE						
X(N57).GAR	PC25-sq							
AKA: N(N57).GAR CDLI: x(N57).GAR		F24CB						
1× III: 1p	o0982214							
3(N57).GAR	PC25-sq							
2× III: 2p	o0982215	F2298						
4(N57).GAR	PC25-sq							
5× III: 5p	o0982216	F2299						
5(N57).GAR	PC25-sq							
8× III: 8p	o0982217	F229A						
6(N57).GAR	PC25-sq							
4× III: 3p/1u	o0982218	F229B						
7(N57).GAR	PC25-sq							
1×	o0982219	12BF2						
4(N57).KU ₃ ~a	PC25-sq							
11× III: 11p	o0982220	F229D						
5(N57).KU ₃ ~a	PC25-sq							
4× III: 4p	o0982221	F229E						
6(N57).KU ₃ ~a	PC25-sq							
2× III: 2p	o0982222	F229F						
2(N57).KU ₆ ~a	PC25-sq							
1× III: 1p	o0982223	F22A0						
1(N57).MUŠEN	PC25-sq							
AKA: MUŠENx1(N57) CDLI: MUŠENx1(N57)		F22A2						
5× III: 5p	o0982224	12BEC						

2(N57).MUŠEN	PC25-sq	 F22A3 12BED					 F22A3
AKA: MUŠEN×2(N57) CDLI: MUŠEN×2(N57) 27x IV: 1p; III: 25p/1u	o0982225						
3(N57).MUŠEN	PC25-sq	 F22A4					 F22A4
AKA: MUŠEN×3(N57) CDLI: MUŠEN×3(N57) 1x III: 1p	o0982226						
3(N57).NUNUZ~a1	PC25-sq	 F22A5					
23x III: 20p/3u	o0982227	ZATU424					
3(N57).NUNUZ~c	PC25-sq	 F22A6					
2x III: 1p/1u	o0982228	ZATU424					
3(N57).PIRIG~b1	PC25-sq	 F22A7		 F22A7	 F22A7		
35x IV: 1p/1u; III: 25p/8u	o0982229	ZATU429					
3(N57).SANGA~a	PC25-sq	 F22BEE					
1x III: 1p	o0982230						
3(N57).SI	PC25-sq	 F22BEE					
2x III: 2p	o0982231						
1(N57).SIG	PC25-sq	 F22A8					
AKA: SIG×1(N57) CDLI: SIG×1(N57) 1x IV: 1p	o0982232						
2(N57).SU~a	UNP	 F22A9					
1x IV: 1u	o0982233						
1(N57).ŠAH ₂ ~a	PC25-sq	 F22AA		 F22AA			
4x III: 4p	o0982234						
1(N57).ŠUBUR	PC25-sq	 F221F		 F221F	 F221F		 F2220
40x IV: 7p/1u; III: 22p/10u	o0982235	ZATU540	 F2220	 F2220	 F2220		 F2220
2(N57).ŠUBUR	PC25-sq	 F22AB		 F22AB			
2x III: 2p	o0982236						
3(N57).ŠUBUR	PC25-sq	 F22AC		 F22AC			
3x III: 3p	o0982237	ZATU540					
3(N57).UDU~a	ZERO	 F22AD					 F22AD
	o0982238	ZATU577					
2(N57).UDUNITA~a	ZERO	 F22AE					 F22AE
	o0982239						
3(N57).UDUNITA~a	ZERO	 F22AF					 F22AF
	o0982240						

B ZATU-PCSL Concordance

ZATU001	॥ A	ZATU039	॥ AZU	ZATU070	॥ DARA ₃ ~a; ॥ DARA ₃ ~b;
ZATU002	॥ A×EN~a	ZATU040	॥ BA	ZATU071	॥ DARA ₃ ~c; ॥ DARA ₃ ~d
ZATU003	॥ A×ŠUBUR	ZATU041	॥ BAD	ZATU072	॥ DARA ₃ ~c×KAR ₂ ;
ZATU004	॥ A×1(N14)	ZATU042	॥ BAD&BAD	ZATU073	॥ DARA ₃ ~d×KAR ₂ ~b
ZATU005	॥ A×ZATU672	ZATU043	॥ 1(N58).BAD ;	ZATU074	॥ DARA ₃ ~c×(KAR ₂ .ŠE~a) ;
ZATU006	॥ A ₂	ZATU044	॥ BAD ₃ ~a; ॥ BAD ₃ ~b1;		॥ DARA ₄ ~a1; ॥ DARA ₄ ~a2;
ZATU007	॥ AB~a; ॥ AB~b		॥ BAD ₃ ~b2		॥ DARA ₄ ~a3; ॥ DARA ₄ ~b;
ZATU008	॥ AB~b×A	ZATU045	॥ BAHAR ₂ ~a;		॥ DARA ₄ ~c; ॥ DARA ₄ ~c1;
ZATU009	॥ AB~a×AŠ		॥ BAHAR ₂ ~b;		॥ DARA ₄ ~c2; ॥ DARA ₄ ~c3;
ZATU010	॥ AB~a×ZATU659		॥ BAHAR ₂ ~c		॥ DARA ₄ ~c4; ॥ DARA ₄ ~c5;
ZATU011	॥ AB~a@g	ZATU046	॥ BALA~a; ॥ BALA~b	ZATU075	॥ D
ZATU012	॥ AB ₂	ZATU047	॥ BALAG	ZATU076	॥ DIB
ZATU013	॥ AB ₂ ×2(N14)	ZATU048	॥ BAN~a; ॥ BAN~b	ZATU077	॥ DILMUN
ZATU014	॥ 2(N57).AB ₂	ZATU049	॥ BANŠUR~a;	ZATU078	॥ DIM~a; ॥ DIM~b;
ZATU014a	ZATU gives 2(N57)+AB ₂ and 3(N57)+AB ₂ ; Corpus has 3(N57).AB ₂ / 4(N57).AB ₂ in ATU 1, 610 = P005961 ii 5-6 read 3(N57) AB ₂ 4(N57) AB ₂ in CDLI.		॥ BANŠUR~b1;		॥ DIM~c
ZATU015	॥ ABGAL	ZATU050	॥ BAPPIR~a;	ZATU079	॥ DIN
ZATU016	॥ ABRIG		॥ BAPPIR~b;	ZATU080	॥ DIN@t
ZATU017	॥ ABZU		॥ BAPPIR~c;	ZATU081	॥ 1(N58)
ZATU018	॥ AD~a; ॥ AD~b; ॥ AD~c		॥ BAPPIR~d; ॥ BAPPIR~e;	ZATU082	॥ DU
ZATU019	॥ ADAB	ZATU051	॥ BAR	ZATU083	॥ DU ₆ ~a; ॥ DU ₆ ~b; ॥ DU ₆ ~c
ZATU020	॥ ADDA	ZATU052	॥ BARA ₂ ~a; ॥ BARA ₂ ~b	ZATU084	॥ DU ₇
ZATU021	॥ NINDA ₂ ×(1(N06).HI@g~a)	ZATU053	॥ BARA ₃	ZATU085	॥ DU ₈ ~a; ॥ DU ₈ ~b;
ZATU022	॥ AGAR ₂	ZATU054	॥ BIR~a; ॥ BIR~b;		॥ DU ₈ ~c
ZATU023	॥ AK~a; ॥ AK~b		॥ BIR~c	ZATU086	॥ DUB~a; ॥ DUB~b;
ZATU024	॥ AL	ZATU055	॥ BIR ₃ ~a; ॥ BIR ₃ ~b;		॥ DUB~c; ॥ DUB~d;
ZATU025	॥ ALAN~a; ॥ ALAN~b;		॥ BIR ₃ ~c		॥ DUB~e; ॥ DUB~f;
	॥ ALAN~c; ॥ ALAN~d;	ZATU056	॥ BU~a; ॥ BU~b		॥ DUB~h
	॥ ALAN~e	ZATU057	॥ BU~a×A	ZATU087	॥ (DUB@n~a×1(N58))~a ;
ZATU026	॥ ALIM	ZATU058	॥ (BU~a&BU~a).NA ₂ ~a ;		॥ (DUB@n~a×1(N58))~b ;
ZATU027	॥ AM~a; ॥ AM~b		॥ (BU~a&BU~a).NA ₂ ~b		॥ DUB@n~b×1(N58)~a
ZATU028	॥ AMA~a; ॥ AMA~b	ZATU059	॥ BU~a+DU ₆ ~a	ZATU088	॥ DUG~a; ॥ DUG~b;
ZATU029	॥ AMAR	ZATU060	॥ BU ₃		॥ DUG~c; ॥ DUG~d
ZATU030	॥ AMAR×TAR~c	ZATU061	॥ BULUG	ZATU089	॥ DUG~b×AB ₂
ZATU031	॥ AN	ZATU062	॥ BULUG ₃	ZATU090	॥ DUG~b×ANŠE~b ;
ZATU032	॥ ANŠE~a; ॥ ANŠE~b;	ZATU063	॥ BUR~a; ॥ BUR~b; ॥ BUR~c;		॥ DUG~b×ANŠE~d
	॥ ANŠE~c; ॥ ANŠE~e;		॥ BUR~d	ZATU091	॥ DUG~a×1(N57) ;
	॥ ANŠE~f	ZATU064	॥ BUR ₂		॥ DUG~b×1(N57) ;
ZATU033	॥ APIN~a; ॥ APIN~b;	ZATU065	॥ DA~a; ॥ DA~b;		॥ DUG~c×1(N57)
	॥ APIN~c		॥ DA~c; ॥ DA~d	ZATU092	॥ DUG~b×(1(N57).KU ₃ ~a)
ZATU034	॥ ARARMA ₂ ~a;	ZATU066	॥ DAH	ZATU093	
	॥ ARARMA ₂ ~b	ZATU067	॥ DAM	ZATU094	॥ DUG~b×BALA~a
ZATU035	॥ ARATTA	ZATU068	॥ DANNA	ZATU095	॥ DUG~b×BIR ₃ ~c
ZATU036	॥ ASAR	ZATU069	॥ DAR~a; ॥ DAR~b;	ZATU096	॥ DUG~b×DIN
ZATU037	॥ 1(N57)		॥ DAR~c; ॥ DAR~d		
ZATU038	॥ AZ				

ZATU097	DUG~b×GA~a ; DUG~b×GA~b	ZATU132	E ₃ ~a; E ₃ ~b	ZATU166	GA ₂ ~b×DUB~a ; GA ₂ ~b×DUB~b
ZATU098	DUG~b×GEŠTU~a ; DUG~b×GEŠTU~b	ZATU133	EDIN	ZATU167	GA ₂ ~a1×GIR~a
ZATU099	DUG~b×GI ₆	ZATU134	EN~a; EN~b; EN~c; EN~e	ZATU168	GA ₂ ~a1×GIŠ@t
ZATU100	DUG~b×GIŠ	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)
ZATU101	DUG~b×HI	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
ZATU102	DUG~b×HI@g~a	ZATU137	EN@g~a; EN@g~b	ZATU171	GA ₂ ~a1×(HI.SUHUR)
ZATU103	DUG~a×KASKAL ; DUG~b×KASKAL	ZATU138	EN ₂	ZATU172	GA ₂ ~a1×KU ₃ ~a ; GA ₂ ~b×KU ₃ ~a
ZATU104	DUG~a×KU ₆ ~a ; DUG~b×KU ₆ ~a	ZATU139	ENDIB	ZATU173	GA ₂ ~a1×KU ₆ ~a ; GA ₂ ~b×KU ₆ ~a
ZATU105	DUG~b×KUR~a ; DUG~b×KUR~b	ZATU140	ENGIZ	ZATU174	GA ₂ ~a1×(KU ₆ ~a+KU ₆ ~a)
ZATU106	DUG~a×LAM~b ; DUG~b×LAM~a	ZATU141	ENKUM	ZATU175	LAGAB~b×KUR~e
ZATU107	DUG~b×KUR@g~a	ZATU142	ENLIL	ZATU176	GA ₂ ~a1×MAŠ
ZATU108	DUG~b×MAŠ	ZATU143	ERIM~a; ERIM~b1; ERIM~b2	ZATU177	GA ₂ ~a1×NAGA~a
ZATU109	DUG~a×NAGA~a ; DUG~b×NAGA~a	ZATU144	ERIM ₂	ZATU178	GA ₂ ~a2×NI~a ; GA ₂ ~a2×NI~b
ZATU110	DUG~b×SA~a	ZATU145	ERIN	ZATU179	GA ₂ ~a1×SUHURI ; GA ₂ ~a2×SUHURI
ZATU111	DUG~b×(SA~a.GI)	ZATU146	3(N57)	ZATU180	GA ₂ ~a1×SUKUD
ZATU112	DUG~b×SI ₄ ~a	ZATU147	ESDA	ZATU181	GA ₂ ~a1×SUMAŠ
ZATU113	DUG~b×SIG ₂ ~a1 ; DUG~b×SIG ₂ ~a2	ZATU148	EŠDA×TAR~a	ZATU182	GA ₂ ~a1×1(N14)
ZATU114	DUG~b×SIG ₇	ZATU149	EŠGAR	ZATU183	GA ₂ ~a1×U ₄
ZATU115	DUG~b×SUHUR	ZATU150	EZEN~a; EZEN~b; EZEN~b@t; EZEN~c	ZATU184	GA'AR~a1; GA'AR~a2; GA'AR~b1; GA'AR~b2
ZATU116	DUG~b×SUKUD~d	ZATU151	EZEN~a×EN~a ; EZEN~a×EN~b	ZATU185	ZATU737×BUR~a
ZATU117	DUG~b×ŠAH ₂ ~a	ZATU152	EZEN~a×KAB	ZATU186	GADA~a; GADA~b
ZATU118	DUG~b×ŠE~a	ZATU153	EZEN~a×NIM~b2	ZATU187	GADA~b@g
ZATU119	DUG~b×(ŠE~a.NAM ₂)	ZATU154	EZEN~a×NIMGIR	ZATU188	GAL~a; GAL~b
ZATU120	DUG~b×TAK~a	ZATU155	EZEN~a×RAD~a	ZATU189	GALGA~a; GALGA~b
ZATU121	DUG~b×TI	ZATU156	EZEN~a×SU~a	ZATU190	GAN~a; GAN~b; GAN~c
ZATU122	DUG~a×U ₂ ~a ; DUG~a×U ₂ ~b ; DUG~b×U ₂ ~a ; DUG~b×U ₂ ~b	ZATU157	EZEN~a×(U ₂ ~b.A)	ZATU191	GAN~c×(HI.DIN)
ZATU123	DUG~b×UH ₃ ~a	ZATU158	EZINU~a; EZINU~b; EZINU~c; EZINU~d	ZATU192	GAN~c×LAGAB~b
ZATU124	DUG~b×ZATU764	ZATU159	GA~a; GA~b; GA~c	ZATU193	GAN~c×NE~a
ZATU125	DUGUD	ZATU160	GA~c×1(N14)	ZATU194	GAN~c×ŠE~a
ZATU126	DUR~a; DUR~b	ZATU161	GA~a.ZATU753	ZATU195	GAN ₂
ZATU127	DUR ₂	ZATU162	GA ₂ ~a1; GA ₂ ~a2; GA ₂ ~a3; GA ₂ ~a4; GA ₂ ~b; GA ₂ ~c	ZATU196	GAR
ZATU128	E~a; E~b; E~c; E~d	ZATU163	ZATU762~b×AB~a	ZATU197	GAR@g~a; GAR@g~b; GAR@g~c
ZATU129	E ₂ ~a; E ₂ ~b; E ₂ ~c; E ₂ ~d	ZATU164	GA ₂ ~a1×1(N57)	ZATU198	GAR ₃
ZATU130	KUR~a.E ₂ ~a ; KUR~b.E ₂ ~a	ZATU165	Only in UET II as BAU328 = GA ₂ ×1(N58).BAD . GA ₂ ×1(N58).BAD .	ZATU199	GARA ₂ ~a; GARA ₂ ~b
ZATU131	E ₂ ~a×1(N58@t) ; E ₂ ~b×1(N58@t)			ZATU200	GAZI
				ZATU201	SAL.KUR~a
				ZATU202	GEŠTIN~a; GEŠTIN~d; GEŠTIN~e
				ZATU203	GEŠTU~a; GEŠTU~b; GEŠTU~c3; GEŠTU~c5
				ZATU204	GI
				ZATU205	ATU 1, 28=P001294 ATU 5, pl. 068, W 9579,av read GI&GI ; GI×SIG ₂ ~d1 ;
				ZATU206	(GI&GI)×ŠE ₃

ZATU207	GI×GIŠ@t	ZATU241	GUKKAL~a.HI@g~a	ZATU281	KAL~a; KAL~b1;
ZATU208	GI×LAGAB~a	ZATU242	GUL		KAL~b2
ZATU209	GI×NAM₂	ZATU243	GUM~a; GUM~b	ZATU282	KALAM~a;
ZATU210	GI×SIG₂~d1	ZATU244	GUM~b@n		KALAM~b;
ZATU211	GI×1(N14)	ZATU245	GUN₃~a; GUN₃~b		KALAM~c;
ZATU212	GI₄~a; GI₄~b	ZATU246	GUR		KALAM~d;
ZATU213	GI₆	ZATU247	GURUŠ~a; GURUŠ~b		KALAM~e;
ZATU214	GIBIL	ZATU248	GURUŠ~a×2(N14) ; GURUŠ~b×2(N14) ; GURUŠ~c×2(N14)		KALAM~f;
ZATU215	GIBIL₆	ZATU249	GURUŠDA		KALAM~g;
ZATU216	GIR~a; GIR~b; GIR~c; GIR~d	ZATU250	HAL		KALAM~h;
ZATU217	KU₆~d	ZATU251	HALUB	ZATU283	KAR
ZATU218	GIR₂~a; GIR₂~b	ZATU252	HAŠHUR	ZATU284	KAR₂~a; KAR₂~b
ZATU219	GIR₃~a; GIR₃~b; GIR₃~c	ZATU253	HAŠHUR×MA	ZATU285	KASKAL
ZATU220	GIR₃~a×ŠE~b	ZATU254	HI; HI~b	ZATU286	KAŠ~a; KAŠ~b;
ZATU221	GIR₃@g~a; GIR₃@g~b; GIR₃@g~c	ZATU255	HI×1(N57@t)		KAŠ~d
ZATU222	GISAL~a; GISAL~b	ZATU256	HI.SUHUR	ZATU287	KAŠ~c
ZATU223	GIŠ	ZATU257	HI×ZATU707~a	ZATU288	KAŠ~b×ŠE~a@t
ZATU224	(GIŠ×(DIN.DIN))~a ; (GIŠ×(DIN.DIN))~b ; (GIŠ×(DIN.DIN))~c	ZATU258	HI@g~a; HI@g~b; HI@g~c	ZATU289	KI
ZATU225	(GIŠ×ŠU₂)~a ; (GIŠ×ŠU₂)~b	ZATU259	I= I	ZATU290	KIB
ZATU226	GIŠ.TE	ZATU260	IB~a; IB~b; IB~c	ZATU291	KID~a; KID~b; KID~c; KID~d; KID~e
ZATU227	GIŠ@t	ZATU261	IDIGNA	ZATU292	KIN
ZATU228	GIŠ₃~a; GIŠ₃~b	ZATU262	IL	ZATU293	KIN₂~a; KIN₂~b; KIN₂~c; KIN₂~d; KIN₂~e
ZATU229	GIŠGAL	ZATU263	ILDUM~a; ILDUM~b	ZATU294	KINGAL
ZATU230	GIŠIMMAR~a1; GIŠIMMAR~a2; GIŠIMMAR~a3; GIŠIMMAR~b1; GIŠIMMAR~b2; GIŠIMMAR~b3	ZATU264	IM~a; IM~b	ZATU295	KISAL~a1; KISAL~a2; KISAL~b1; KISAL~b2; KISAL~b3
ZATU231	GIZZAL~v	ZATU265	IN~b	ZATU296	KISIM~a; KISIM~b; KISIM~c
ZATU232	GU	ZATU266	IN~d	ZATU297	KIŠ
ZATU233	GU₂	ZATU267	IR~a; IR~b; IR~c; IR~d	ZATU298	KIŠIK~a; KIŠIK~b
ZATU234	GU₄	ZATU268	IR₁₁	ZATU299	KITI
ZATU235	GU₇	ZATU269	IRHAN	ZATU300	KU~a; KU~b1; KU~b2
ZATU236	GUB₃~a; GUB₃~b; GUB₃~c; GUB₃~d	ZATU270	IŠ~a; IŠ~b; IŠ~c	ZATU301	KU₃~a; KU₃~c
ZATU237	GUG₂	ZATU271	KA~a	ZATU302	KU₆~a; KU₆~c
ZATU238	GUG₂×SILA₃~a	ZATU272	Read as sequence KA GI.	ZATU303	KU₆~a+KU₆~a
ZATU239	GUG₂×TUR	ZATU273	KA~a×SAR~a	ZATU304	KUR~a; KUR~b; KUR~c; KUR~d
ZATU240	GUKKAL~a; GUKKAL~b; GUKKAL~c; GUKKAL~d	ZATU274	KA~a.ŠE~a	ZATU305	KUŠU₂~a; KUŠU₂~b; KUŠU₂~c; KUŠU₂~d; KUŠU₂~e; KUŠU₂~f
		ZATU275	KA₂~a; KA₂~b; KA₂~c	ZATU306	LA~b; LA~c; LA~d
		ZATU276	KA₂~d×LAM~b	ZATU307	LA₂
		ZATU277	KAB	ZATU308	LAGAB~a; LAGAB~b
		ZATU278	KAB×1(N58)	ZATU309	LAGAB~b×BANŠUR~a
		ZATU279	≡ KAD₄~a; ≡ KAD₄~b; ≡ KAD₄~c1; ≡ KAD₄~c2	ZATU310	LAGAB~a×DU₆~a
		ZATU280	▷ KAK~a; ▷ KAK~b	ZATU311	LAGAB~b×GA'AR~a1
				ZATU312	LAGAB~b×HII
				ZATU313	LAGAB~a×KU₆~a
				ZATU314	LAGAB~a×KUŠU₂~a@t
				ZATU315	LAGAB~a×ME~a

ZATU316	LAGAB~a×NUN~b	ZATU355	MAŠ	ZATU391	NE~a; NE~b;
ZATU317	LAGAB~a×PA~a ; LAGAB~b×PA~a	ZATU356	ZATU MAŠ+GAN ₂ read as MAŠ GAN ₂ in CDLI-tc	ZATU392	NERGAL~v
ZATU318	LAGAB~a×ŠA	ZATU357	MAŠ ₂	ZATU393	NI~a; NI~b
ZATU319	LAGAB~a×ŠITA~a1	ZATU358	ME~a; ME~b	ZATU394	NI~a@g
ZATU320	LAGAB~a×2(N14)	ZATU359	ME ₃	ZATU395	See new copy of ATU 1, 143 in P001212=ATU 5, pl. 054, W 9335.i.
ZATU321	LAGAB~a×ZATU753	ZATU360	MEN~a; MEN~b	ZATU396	Nl ₂
ZATU322	LAGAB×ZATU766 ; collation on P004228 o i 4b suggests not all of LAGAB is present; read X in CDLI-tc	ZATU361	MES	ZATU397	NIGIN
ZATU323	LAGAR~a; LAGAR~b1; LAGAR~b2; LAGAR~c	ZATU362	MIR~a; MIR~b	ZATU398	NIM~a; NIM~b1; NIM~b2; NIM~b3;
ZATU324	LAHTAN ₂	ZATU363	MU	ZATU399	NIM~d
ZATU325	LAL ₂ ~a; LAL ₂ ~b	ZATU364	MUD	ZATU400	NIMGIR
ZATU326	LAL ₂ ~a×EZEN~a	ZATU365	MUD ₃ ~a; MUD ₃ ~b; MUD ₃ ~c; MUD ₃ ~d	ZATU401	NIN
ZATU327	LAL ₃ ~a; LAL ₃ ~b	ZATU366	MUD ₃ ~a@g	ZATU402	NINDA ₂ ×BA
ZATU328	LAM~a; LAM~b	ZATU367	MUL	ZATU403	NINDA ₂ ×EZEN~b
ZATU329	KUR@g~a; KUR@g~b; LAM~b@s	ZATU368	MUN~a1; MUN~a2; MUN~a3; MUN~a4; MUN~b	ZATU404	NINDA ₂ ×GAR
ZATU330	LI	ZATU369	MUNSUB~a; MUNSUB~b	ZATU405	NINDA ₂ ×GIŠ
ZATU331	LIŠ	ZATU370	MUNU ₃	ZATU406	NINDA ₂ ×(AN.ME~a) ; NINDA ₂ ×(HI.AN.ME~a) ; NINDA ₂ ×GUDU ⁴
ZATU332	LU ₂	ZATU371	MURUB ₂	ZATU407	NINDA ₂ ×HI
ZATU333	LU ₂ ×GEŠTU~c3	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	ZATU408	NINDA ₂ ×MAR~a ; NINDA ₂ ×MAR~b
ZATU334	LUGAL	ZATU373	MUŠ	ZATU409	NINDA ₂ ×U ₄
ZATU335	LUM	ZATU374	MUŠ ₃ ~a; MUŠ ₃ ~b	ZATU410	NINDA ₂ ×(UDU~a×TAR~a) ; NINDA ₂ ×(UDU~a×TAR~b)
ZATU336	MA	ZATU375	MUŠ ₃ ~a@g	ZATU411	EZEN~b×6(N57) ; NINDA ₂ ×1(N01) ; NINDA ₂ ×2(N01) ; NINDA ₂ ×1(N08)
ZATU337	MA×A	ZATU376	MUŠEN	ZATU412	NINKUM
ZATU338	MA×MA	ZATU377	MUŠEN.UR ₃ ~b2	ZATU413	NINLIL
ZATU339	MA ₂	ZATU378	NA~a; NA~b; NA~c; NA~d	ZATU414	NIR~a; NIR~b
ZATU340	MAGUR~a; MAGUR~b	ZATU379	NA ₂ ~a; NA ₂ ~b; NA ₂ ~b2; NA ₂ ~c	ZATU415	NIR~a×AN
ZATU341	MAH~a; MAH~b	ZATU380	* NAB	ZATU416	ZATU570 NESAG ₂ ~a; NESAG ₂ ~a2; NESAG ₂ ~b
ZATU342	MAH~a×GUKKAL~a	ZATU381	NAGA~a; NAGA~b	ZATU417	NU
ZATU343	MAH~a×KU ₆ ~a ; MAH~b×KU ₆ ~a	ZATU382	NAGAR~a; NAGAR~b	ZATU418	NU@g
ZATU344	MAH~a×MAŠ ; MAH~b×MAŠ	ZATU383	NAM~a; NAM~b; NAM~c; NAM~d	ZATU419	NU ₁₁
ZATU345	MAH~b×SAL	ZATU384	NAM ₂	ZATU420	NUMUN ₂
ZATU346	MAH~a×(SILA ₃ ~a×UMBIN~a)	ZATU385	NAM ₂ ×1(N01)	ZATU421	NUN~a; NUN~b; NUN~c; NUN~d
ZATU347	MAH~a×TUG ₂ ~a	ZATU386	NAM ₂ @g	ZATU422	NUN~a+A
ZATU348	MAH~a×UD ₅ ~a	ZATU387	NAMEŠDA	ZATU423	NUNUZ~a0; NUNUZ~a1; NUNUZ~a2; NUNUZ~b1; NUNUZ~b2; NUNUZ~c
ZATU349	MAH~a×UDU~a	ZATU388	NANNA~a; NANNA~b	ZATU424	3(N57).NUNUZ~a1 ; 3(N57).NUNUZ~c
ZATU350	MAH~a×UR~a	ZATU389	AB~a×KU ₆ ~a ; NANŠE~a; NANŠE~b	ZATU425	PA~a; PA~b
ZATU351	MAH~a×UTUA~a	ZATU390	NAR		
ZATU352	MAR~a; MAR~b				
ZATU353	MAR~b×(LAGAB~b.ŠE ₃)				
ZATU354	MAR~b×ŠE~a				

ZATU426	▷ PAD~a; ▷ PAD~b	ZATU460, ZATU472 ▷ SILA ₃ ~a×NI~a ;	ZATU494	(SUKUD+SUKUD)~a ;
ZATU427	— PAP~a; — PAP~b	▷ SILA ₃ ~b×NI~a ;		(SUKUD+SUKUD)~b ;
ZATU428	PIRIG~a1; PIRIG~a2; PIRIG~a3; PIRIG~b1; PIRIG~b2	▷ SILA ₃ ~b×NI~b ;		(SUKUD+SUKUD)~d
ZATU429	= 3(N57).PIRIG~b1	▷ SILA ₃ ~d×NI~a	ZATU495	SUKUD@g~a; SUKUD@g~b; SUKUD@g~c; SUKUD@g~d
ZATU430	○ PU ₂	ZATU461 ▷ SILA ₃ ~a×GARA ₂ ~a	ZATU496	SUM~a; SUM~b
ZATU431	RA	ZATU462, ZATU469 ▷ SILA ₃ ~a×GEŠTU~a ;	ZATU497	SUMAŠ
ZATU432	- RAD~a; - RAD~b	▷ SILA ₃ ~a×GEŠTU~c3 ;	ZATU498	SUR
ZATU433	- RAD~a@g	▷ SILA ₃ ~a×GEŠTU~c5	ZATU499	SUSA
ZATU434	Rl ₈ ~a; Rl ₈ ~b	ZATU463 ▷ SILA ₃ ~a×HAŠHUR	ZATU500	ŠA
ZATU435	RU	ZATU464 ▷ SILA ₃ ~a×HII	ZATU501	(ŠA×HI@g~a)~a ;
ZATU436	SA~a; SA~c	ZATU465 ▷ SILA ₃ ~a×HI@g~a		(ŠA×HI@g~a)~b
ZATU437	SAG	ZATU466 ▷ SILA ₃ ~a×IB~a	ZATU502	ŠA@g
ZATU438	SAG×GEŠTU~a ; SAG×GEŠTU~b ; SAG×GEŠTU~c	ZATU467 ▷ SILA ₃ ~a×KAŠ~a ;	ZATU503	◊ ŠA ₃ ~a1; ◊ ŠA ₃ ~a2; ◊ ŠA ₃ ~b; ◊ ŠA ₃ ~c; ◊ ŠA ₃ ~d
ZATU439	SAG×MA	▷ SILA ₃ ~a×KAŠ~c ;	ZATU504	ŠAB~a; ŠAB~b
ZATU440	SAG×1(N14)	▷ SILA ₃ ~a×KAŠ~d	ZATU505	Delete, W 14777,e = P002181 now read GAL~a ŠAB~a AL.
ZATU441	SAG@n	ZATU468 ▷ SILA ₃ ~a×KUR~a	ZATU506	ŠAGAN
ZATU442	SAGŠU	ZATU469 see ZATU462	ZATU507	ŠAGINA
ZATU443	SAL	ZATU470 ▷ SILA ₃ ~a×MAŠ	ZATU508	ŠAH ₂ ~a; ŠAH ₂ ~b; ŠAH ₂ ~c
ZATU444	SANGA~a; SANGA~b; SANGA~c; SANGA~e	ZATU471 ▷ SILA ₃ ~a×NAGA~a ;	ZATU509	ŠAKIR~a; ŠAKIR~b; ŠAKIR~c
ZATU445	SAR~a; SAR~b; SAR~c; ◊ SAR~d	▷ SILA ₃ ~a×NAGA~b	ZATU510	ŠAM ₂
ZATU446	KU ₆ ~a@s	ZATU472 see ZATU460	ZATU511	ŠE~a; ŠE~b; ŠE~c
ZATU447	SI	ZATU473 ▷ SILA ₃ ~a×MA	ZATU512	(ŠE~a.KIN ₂)~c
ZATU448	SI×GU ₄	ZATU474 ▷ SILA ₃ ~a×SUM~a ;	ZATU513	(ŠE~a.NAM ₂)
ZATU449	SI×ŠE ₃	▷ SILA ₃ ~a×SUM~b	ZATU514	SAR~a×ŠE~a
ZATU450	SI ₄ ~a; SI ₄ ~b; SI ₄ ~c; SI ₄ ~d; SI ₄ ~f	ZATU475 ▷ SILA ₃ ~a×ŠE~a	ZATU515	ŠE~a&ŠE~a
ZATU451	ŠIG; ŠIG~b	ZATU476 ▷ SILA ₃ ~a×ŠU ;	ZATU516	ŠE ₃
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	▷ SILA ₃ ~a×ŠU	ZATU517	Delete, W 17586 = P002625 now read as 1(N01) KU ₃ .
ZATU453	SIG ₂ ~b×1(N14)	ZATU477 ▷ SILA ₃ ~a×ŠU ₂	ZATU518	ŠE ₃ @t
ZATU454	SIG ₄	ZATU478 ▷ SILA ₃ ~a×(ZATU659.TU~c)	ZATU519	ŠEG ₉
ZATU455	SIG ₇	ZATU479 Delete, W 16012,b+ = P002571 now read UDU ŠITA.	ZATU520	ŠELU
ZATU456	▷ SILA ₃ ~a; ▷ SILA ₃ ~b; ▷ SILA ₃ ~c	ZATU480 ▷ SILA ₃ ~c×ZATU687	ZATU521	ŠEN~a; ŠEN~b; ŠEN~c; ŠEN~d; ŠEN~e
ZATU457	▷ SILA ₃ ~a×A	ZATU481 ▷ SILA ₃ ~a×1(N57) ;	ZATU522	ŠENNUR~a; ŠENNUR~b
ZATU458	▷ SILA ₃ ~a×DUG~a	▷ SILA ₃ ~a×1(N58)	ZATU523	ŠEŠ~a; ŠEŠ~b
ZATU459	▷ SILA ₃ ~a×GA~a	ZATU482 ▷ SILA ₄ ~a; SILA ₄ ~b; ○ SILA ₄ ~c; □ SILA ₄ ~d	ZATU524	ŠIDIM
		ZATU483 ○ ◊ SILANITA	ZATU525	ŠIM~a; ŠIM~b
		ZATU484 ▷ SIMUG	ZATU526	ŠIR~a; ŠIR~b
		ZATU485 ▷ SU~a; ▷ SU~b; ▷ SU~c	ZATU527	ŠITA~a1; ŠITA~a2; ŠITA~a3; ŠITA~b1; ŠITA~b2; ŠITA~b3
		ZATU486 ▷ SU~a×1(N58)		
		ZATU487 ▷ SU ₃		
		ZATU488 ○ SUG		
		ZATU489 ▷ SUG ₅		
		ZATU490 ▷ SUH ₃		
		ZATU491 ▷ SUHUR		
		ZATU492 ▷ SUKKAL		
		ZATU493 ▷ SUKUD		

ZATU528	► ŠITA~a1×ŠU	ZATU561	☒ TUN ₃ ~a; ☒ TUN ₃ ~b; ☒ TUN ₃ ~c	ZATU597	☒ URU~a1; ☒ URU~a2; ☒ URU~b1; ☒ URU~b2; ☒ URU~c
ZATU529	► ŠITA~a1×KAK~a	ZATU562	☒ TUR	ZATU598	☒ JURU~a1×AMAR
ZATU530	► ŠITA@g~a; ► ŠITA@g~b	ZATU563	☒ TUR ₃ ~a; ☒ TUR ₃ ~b; ☒ TUR ₃ ~c	ZATU599	☒ JURU~a3×KALAM~a
ZATU531	► ŠITA@g~a×1(N04)	ZATU564	● 1(N14)	ZATU600	☒ JURU~a1×NIMGIR
ZATU532	☒ ŠU	ZATU565	☒ U ₂ ~a; ☒ U ₂ ~b; ☒ U ₂ ~c	ZATU601	☒ JURU~a1×1(N57) ; ☒ JURU~a1×2(N57) ; ☒ JURU~a2×1(N58)
ZATU533	☒ ŠU@g	ZATU566	☒ U ₄	ZATU602	☒ URUDU~a; ☒ URUDU~c; ☒ URUDU~d
ZATU534	〈 ŠU ₂	ZATU567	☒ KI@n×DUB~a	ZATU603	☒ URUDU@g~a; ☒ URUDU@g~b; ☒ URUDU@g~c; ☒ URUDU@g~d
ZATU535	〈☒ ŠU ₂ .E ₂ ~a ; 〈☒ ŠU ₂ .E ₂ ~b	ZATU568	☒ U ₄ .ŠU ₂	ZATU604	☒ UŠ~a; ☒ UŠ~b
ZATU536	〈☒ ŠU ₂ .EN~a ; 〈☒ ŠU ₂ .EN~b	ZATU569	☒ U ₄ ×1(N01)	ZATU605	☒ UŠ~b×TAR~c
ZATU537	ŠU ₂ .U ₄ in ATU 206 read as AB ₂ in P001387=ATU 5 pl.80, W 9655.o.	ZATU570	see ZATU416	ZATU606	☒ 1(N02)
ZATU538	☒ ŠU ₁₂	ZATU571	☒ U ₈	ZATU607	☒ UŠUMGAL
ZATU539	☒ ŠUBUR	ZATU572	☒ UB	ZATU608	☒ UŠUR ₃ ~b1; ☒ UŠUR ₃ ~b2
ZATU540	☒ 1(N57).ŠUBUR ; ☒ 3(N57).ŠUBUR	ZATU573	☒ UBI~a; ☒ UBI~c; ☒ UBI~d	ZATU609	☒ UTUA~a; ☒ UTUA~b
ZATU541	☒ ŠUM	ZATU574	☒ UD ₅ ~a; ☒ UD ₅ ~b; ☒ UD ₅ ~c	ZATU610	☒ UTUL~a; ☒ UTUL~b; ☒ UTUL~c; ☒ UTUL~d
ZATU542	ŠUNIGIN taken as DA in CDLI.	ZATU575	☒ UDU~a; ☒ UDU~b; ☒ UDU~c	ZATU611	☒ UZ~a
ZATU543	☒ ŠUR ₂ ~a; ☒ ŠUR ₂ ~b; ☒ ŠUR ₂ ~c	ZATU576	☒ UDU~a×TAR~a ; ☒ UDU~a×TAR~b	ZATU612	☒ ZA~v
ZATU544	☒ ŠURUPPAK~a; ☒ ŠURUPPAK~b	ZATU577	☒ 3(N57).UDU~a	ZATU613	☒ ZABALAM~a; ☒ ZABALAM~b
ZATU545	☒ TA~a; ☒ TA~b; ☒ TA~c; ☒ TA~d; ☒ TA~e	ZATU578	☒ UDUNITA~a; ☒ UDUNITA~b; ☒ UDUNITA~c	ZATU614	☒ SILA ₃ ~a×NUN~b
ZATU546	= 2(N57)	ZATU579	☒ UH ₃ ~a; ☒ UH ₃ ~b	ZATU615	☒ ZAG~a; ☒ ZAG~b; ☒ ZAG~c
ZATU547	☒ TAG~a1; ☒ TAG~a2; ☒ TAG~a3; ☒ TAG~a4; ☒ TAG~b; ☒ TAG~c; ☒ TAG~d	ZATU580	☒ UKKIN~a; ☒ UKKIN~b; ☒ UKKIN~c; ☒ UKKIN~d	ZATU616	☒ ZAR~a; ☒ ZAR~b1; ☒ ZAR~b2; ☒ ZAR~c
ZATU548	☒ TAK ₄ ~a; ☒ TAK ₄ ~c	ZATU581	☒ UMBIN~a; ☒ UMBIN~b1; ☒ UMBIN~b2; ☒ UMBIN~c	ZATU617	☒ ZI~a; ☒ ZI~b; ☒ ZI~d
ZATU549	☒ TAR~a	ZATU582	☒ UMUN ₂	ZATU618	☒ 1(N04)
ZATU550	☒ TE	ZATU583	☒ UNUG~a; ☒ UNUG~b; ☒ UNUG~c	ZATU619	☒ ZUBI~a; ☒ ZUBI~b
ZATU551	☒ TI	ZATU584	☒ UNUG~a×A@t	ZATU620	☒ ZATU620
ZATU552	☒ TIDNUM	ZATU585	☒ UNUG~a@s	ZATU621	☒ ZATU621~a; ☒ ZATU621~b; ☒ ZATU621~c; ☒ ZATU621~d
ZATU553	☒ TILLA ₂	ZATU586	☒ UR~a; ☒ UR~b; ☒ UR~c	ZATU622	☒ ZATU622
ZATU554	☒ TU~a; ☒ TU~b; ☒ TU~c	ZATU587	☒ UR~a@g	ZATU623	☒ ZATU623
ZATU555	☒ TUG ₂ ~a; ☒ TUG ₂ ~b; ☒ TUG ₂ ~c; ☐ TUG ₂ ~d	ZATU588	☒ UR ₂	ZATU624	☒ ZATU624~a; ☒ ZATU624~b; ☒ ZATU624~c
ZATU556, ZATU558	☒ TUG ₂ ~a.BAD&BAD	ZATU589	☒ UR ₂ ×1(N57)	ZATU625	☒ ZATU625
ZATU557	☒ TUG ₂ ~a@g	ZATU590	☒ UR ₂ ×TAR~c	ZATU626	☒ ZATU626~a; ☒ ZATU626~b; ☒ ZATU626~c
ZATU558	see ZATU556	ZATU591	☒ UR ₃ ~a1; ☒ UR ₃ ~a2; ☒ UR ₃ ~a3; ☒ UR ₃ ~b1; ☒ UR ₃ ~b2; ☒ UR ₃ ~d2	ZATU627	☒ ZATU627
ZATU559	Damaged, identification uncertain, possibly KAB.	ZATU592	☒ UR ₄ ~a; ☒ UR ₄ ~b; ☒ UR ₄ ~c	ZATU628	☒ ZATU628~a; ☒ ZATU628~b
ZATU560	☒ TUM~a; ☒ TUM~b; ☒ TUM~c; ☒ TUM~d	ZATU593	☒ UR ₅ ~a; ☒ UR ₅ ~b	ZATU629	☒ ZATU629
		ZATU594	☒ URI		
		ZATU595	☒ URI ₃ ~a; ☒ URI ₃ ~b		
		ZATU596	☒ URI ₅		

ZATU630	# ZATU630	ZATU675	— ZATU675~a; — ZATU675~b; — ZATU675~c; — ZATU675~d	ZATU707	— ZATU707~a; — ZATU707~b
ZATU631	=○ ZATU631	ZATU676	— ZATU676~a; — ZATU676~b	ZATU708	—○ ZATU708
ZATU632	>○ ZATU632~a; ○ ZATU632~b; ○ ZATU632~c	ZATU677	— ZATU677~a; — ZATU677~b	ZATU709	—○ ZATU709
ZATU633	>○ ZATU633~a; >> ZATU633~b	ZATU678	—○ ZATU678	ZATU710	—○ ZATU710
ZATU634	—○ ZATU634	ZATU679	—○ ZATU679	ZATU711	—○ ZATU711
ZATU635	—○ ZATU635	ZATU680	—○ ZATU680~a1; —○ ZATU680~a2; —○ ZATU680~b; —○ ZATU680~d; —○ ZATU680~e	ZATU712	—○ ZATU711×HI@g~a
ZATU636	—○ ZATU636	ZATU681	—○ ZATU681	ZATU713	—○ ZATU713
ZATU637	—○ ZATU637	ZATU682	—○ ZATU682	ZATU714	—○ ZATU714
ZATU639	—○ ZATU639	ZATU683	—○ ZATU683~a; —○ ZATU683~b	ZATU715	—○ ZATU714×HI@g~a
ZATU640	—○ ZATU640	ZATU684	—○ ZATU684	ZATU716	—○ ZATU714.RU
ZATU641	—○ ZATU641	ZATU685	—○ ZATU685	ZATU717	—○ ZATU717
ZATU642	—○ ZATU642	ZATU686	—○ ZATU686~a; —○ ZATU686~b; —○ ZATU686~c	ZATU718	—○ ZATU718
ZATU643	—○ ZATU643	ZATU687	—○ ZATU687	ZATU719	—○ ZATU719
ZATU644	← ZATU644~a; ← ZATU644~b	ZATU688	—○ ZATU688~a; —○ ZATU688~b	ZATU720	—○ ZATU720
ZATU645	← ZATU644~a×1(N14)	ZATU689	—○ ZATU689	ZATU721	—○ ZATU721
ZATU646	← ZATU646	ZATU690	—○ ZATU690	ZATU722	—○ ZATU722
ZATU647	←○ ZATU647	ZATU691	—○ ZATU691	ZATU723	—○ ZATU723
ZATU648	←○ ZATU648	ZATU692	—○ ZATU692	ZATU724	—○ ZATU724
ZATU649	←○ ZATU649	ZATU693	—○ ZATU693	ZATU725	—○ ZATU725
ZATU650	←○ ZATU650	ZATU694	—○ ZATU694~a; —○ ZATU694~b; —○ ZATU694~c; —○ ZATU694~d; —○ ZATU694~e	ZATU726	—○ ZATU726~a; —○ ZATU726~c; —○ ZATU726~d
ZATU651	←○ ZATU651	ZATU695	—○ ZATU695	ZATU727	—○ ZATU727
ZATU652	←○ ZATU651×AN	ZATU696	—○ ZATU696	ZATU728	—○ ZATU728
ZATU653	←○ ZATU651×EN~a	ZATU697	—○ ZATU697~a; —○ ZATU697~b; —○ ZATU697~c	ZATU729	—○ ZATU729
ZATU654	←○ ZATU651×GAR	ZATU698	—○ DU _b ~c@g	ZATU730	—○ ZATU730
ZATU655	←○ ZATU651×MA	ZATU699	—○ ZATU699~a; —○ ZATU699~b	ZATU732	—○ ZATU732
ZATU656	←○ ZATU651×NUN~a	ZATU700	—○ ZATU700	ZATU733	—○ ZATU733
ZATU657	←○ ZATU651×ŠE~a	ZATU701	—○ ZATU701	ZATU734	—○ ZATU734
ZATU658	←○ ZATU651@g	ZATU702	—○ ZATU702	ZATU735	—○ ZATU735~a; —○ ZATU735~b; —○ ZATU735~c
ZATU659	←○ ZATU659	ZATU703	—○ ZATU703	ZATU736	—○ ZATU736~a; —○ ZATU736~b
ZATU660	←○ ZATU659×1(N58@t)	ZATU704	—○ ZATU704	ZATU737	—○ ZATU737
ZATU661	←○ ZATU659×1(N14)	ZATU705	—○ ZATU705	ZATU738	—○ ZATU737×AB~a
ZATU662	←○ ZATU662	ZATU706	—○ ZATU706	ZATU739	—○ ZATU737×DII
ZATU663	←○ ZATU662×1(N14)			ZATU740	—○ ZATU737×EN~a ;
ZATU664	←○ ZATU664			ZATU741	—○ ZATU737×EN~b
ZATU665	←○ ZATU665			ZATU742	—○ ZATU737×GAR
ZATU666	←○ ZATU666			ZATU743	—○ ZATU737×NIMGIR
ZATU667	←○ ZATU667			ZATU744	—○ ZATU737×SAL
ZATU668	←○ ZATU668			ZATU745	—○ ZATU737×SU~a
ZATU669	←○ ZATU669			ZATU746	—○ ZATU737×ŠITA~b1@g
ZATU670	←○ ZATU670			ZATU747	—○ ZATU737×U ₄
ZATU671	Damaged, identification uncertain.			ZATU748	—○ ZATU737×UNUG~a
ZATU672	←○ ZATU672			ZATU749	—○ ZATU749~a; —○ ZATU749~b; —○ ZATU749~c
ZATU674	←○ ZATU674			ZATU750	—○ ZATU750
				ZATU751	—○ ZATU751~a; —○ ZATU751~b
				ZATU752	—○ ZATU752
				ZATU753	—○ ZATU753

ZATU754		ZATU754
ZATU755		ZATU755~a;
ZATU756		ZATU756
ZATU757		ZATU757
ZATU758		ZATU758
ZATU759		ZATU759
ZATU760		ZATU759×KU ₆ ~a ;
ZATU761		ZATU761
ZATU762		ZATU762~a;
ZATU763		ZATU762~a×NIM~a
ZATU764		ZATU764
ZATU765		ZATU765
ZATU766		ZATU766
ZATU767		ZATU767
ZATU768		ZATU768
ZATU769		ZATU769
ZATU770	Damaged; ATU 833 = ATU 1, 442 = P001011 ATU 5, pl. 034, W 9071,h; excluded from CDLI list.	
ZATU771		ZATU771
ZATU772		ZATU772
ZATU773		ZATU773~a;
ZATU774		ZATU774
ZATU775		ZATU775
ZATU776		ZATU776
ZATU777		ZATU777
ZATU778		ZATU778
ZATU779		ZATU779
ZATU780		ZATU780
ZATU781		ZATU781
ZATU782		ZATU782
ZATU783		ZATU783
ZATU784		ZATU784
ZATU785		ZATU785
ZATU786		ZATU786
ZATU787		ZATU787
ZATU788		ZATU788
ZATU789		ZATU789
ZATU790	Vacat.	
ZATU791		ZATU791
ZATU792		ZATU792
ZATU793	Vacat.	
ZATU794	Vacat.	
ZATU795		ZATU795
ZATU796	Vacat.	
ZATU797		ZATU797
ZATU798		ZATU798
ZATU799		ZATU799
ZATU800		ZATU800
ZATU801		ZATU801
ZATU802		ZATU802;
ZATU803		ZATU803
ZATU804		ZATU804
ZATU805		ZATU805
ZATU806		ZATU806
ZATU807		ZATU807
ZATU808		ZATU808
ZATU809		ZATU809
ZATU810		ZATU810
ZATU811		ZATU811
ZATU812		ZATU812
ZATU813		ZATU813
ZATU814		ZATU814
ZATU815		ZATU815
ZATU816	Vacat.	
ZATU817		ZATU817
ZATU818		ZATU818
ZATU819		ZATU819
ZATU820		ZATU820
ZATU821		ZATU821
ZATU822		ZATU822
ZATU823		ZATU823
ZATU824		ZATU824
ZATU825		ZATU825
ZATU826		ZATU826
ZATU827	Vacat.	
ZATU828	Vacat.	
ZATU829		ZATU829
ZATU830	Vacat.	
ZATU831		ZATU831
ZATU832		ZATU832
ZATU833		ZATU833
ZATU834		ZATU834
ZATU835		ZATU835
ZATU836		ZATU836
ZATU837		ZATU837~a;
ZATU838		ZATU838
ZATU839		ZATU839
ZATU840		ZATU840
ZATU841		ZATU841
ZATU842		ZATU842
ZATU843		ZATU843
ZATU844		ZATU844
ZATU845		ZATU845
ZATU846		ZATU846
ZATU847		ZATU847
ZATU848		ZATU848
ZATU849		ZATU849
ZATU850		ZATU850
ZATU851		ZATU851
ZATU852		ZATU852
ZATU853		ZATU853
ZATU854		ZATU854
ZATU855		ZATU855
ZATU856		ZATU856
ZATU857		ZATU857
ZATU858		ZATU858
ZATU859		ZATU859

C 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)~x~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)~x~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~x~ŠE~a  GAN~c~x~ŠE ₃ @t
P002882		IM 045941			 NESAG ₂ ~b@t
P002891		IM 046146			 GA ₂ ~a1~NAGA~a  GAN~c~x~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, Sec1722 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~b1×UR 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×GEŠTU~c  UR~a×KAR ₂ ~b ZATU821
P006068	MS 2501	 ZATU831@g

P006070	CDLI Lexical 000023, ex. 095	 DUG~bxE~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 Database; 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))

D 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 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: 108p/14u o0980272	PC25-bk F20BC F20BB	 1 					
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 o0980413	PC25-bk F2429						
GAN~c×X 3× IV: 1p; III: 1p/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 1 F2122						
MAH~a×X 7× IV: 5p; III: 1p/1u o0980823	PC25-bk F2454					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	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: 3p/5u	o0980960		F2463					F2463
SILA ₃ ~a×X		PC25-bk						
17× IV: 7p/5u; III: 3p/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: 1p	o0981471		F248C			F248C		
ZATU640		PC25-bk						
1× IV: 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	o0981591	ZATU670	F2498			F2498		
ZATU704		PC25-bk						
3× IV: 2p	o0981645	ZATU704	F249C			F249C		
ZATU711×X		PC25-bk						
1× IV: 1p	o0981655		F249D			F249D		

ZATU714×X		PC25-bk							
2× IV: 1p; III: 1u	o0981660		F249E						
ZATU724		PC25-bk							
3× IV: 1p; III: 2p	o0981668	ZATU724	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: 1p	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	o0981781	ZATU817	F24B0			F24B0			
ZATU818		PC25-bk							
1× IV: 1p	o0981782	ZATU818	F24B1			F24B1			

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

 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	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								
o0982249		F2540						

GUG ₂ ×ŠITA~a1		UNP						
1× III: 1u	o0980554		F24FC					
GUG ₂ @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						
1× III: 1u	o0980654		F2442					
KAŠ~b@t		ZERO						
	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					
NNUUZ~a1@t		UNP						
2× III: 2u	o0980994		F2465					
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					F2528
RAD~a@t		UNP						
2× III: 2u	o0981019		F2468					
RU@t		ZERO						
	o0981025		F2469					
SAG×GEŠTU~c		UNP						
1× III: 1u	o0981032	ZATU438	F246A					
SAG×1(N14)		UNP						
1× III: 1u	o0981037	ZATU440	F246B					
SIG~b		UNP						
	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 ZATU469	F246E					
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						
1× III: 1u	o0981172		F2476					

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

URU~a1×GU ₄		UNP						
1× III: 1u	o0981466							
URU~a1@n		UNP						
1× III: 1u	o0981475							
URUDU@g~b		UNP						
1× IV: 1u	o0981486	ZATU603						
ZUBI~b		UNP						
1× III: 1u	o0981525	ZATU619						
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×SE~a		UNP						
1× III: 1u	o0981574	ZATU657						
ZATU659@t		UNP						
1×	o0981582							
ZATU683@t		UNP						
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×KU ₆ ~d		UNP						
1× IV: 1u	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	UNP								
2x III: 2u	o0981793		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	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						

G 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						
A@g o0980007	EDI						
ALAN~f o0980046	EDI						
ANZU ₂ o0980064	EDI						
ASAL ₂ o0980072	EDI						
BAU405 CDLI: UET ₂ .405 o0980108	EDI						
DAG o0980142	EDI						
DIM~a×GU o0980175	EDI						
DIM~a×X o0980176	EDI						
DUG~a×HI o0980213	EDI						
DUG~a×X o0980220	EDI						
E~e o0980296	EDI						
ENSI o0980324	EDI						
ENSI ₂ o0980325	EDI						
EZEN~a×LA~e o0980341	EDI						
GA ₂ ~a1×GU ₄ o0980376	EDI						
GA ₂ ~a1×NUN~a o0980387	EDI						

GA ₂ ~a1×X	PC25-bk		F20D7	F20D8	F20D7	F20D7	F20D7	F20D8	
14x IV: 4p; III: 9p/1u o0980399									
GAN-d	EDI		F24D2	F24FA					
o0980450									
GAN-d×HI	EDI		F24D3	F24FB					
o0980452									
GEŠTIN~c	EDI		F223D	F24D4					
o0980463									
GEŠTIN~c×X	EDI		F24D5	F24D6					
o0980464									
GIG	EDI		F24D7	F24D8					
o0980498									
GIL	EDI		F24D9	F24D10					
o0980499									
GIR ₄	EDI		F24D11	F24D12					
o0980517									
GIŠ~v	EDI		F24D13	F24D14					
CDLI: GIŠ~x									
o0980527									
GIŠ@t.E ₂ ~a	EDI		F24D15	F24D16					
o0980529									
HI×ŠE ₃ @t	EDI		F24D17	F24D18					
o0980582									
HI×1(N01@f)	EDI		F24D19	F24D20					
CDLI: HI×1(N01)F									
o0980584									
HUB ₂	EDI		F24D21	F24D22					
o0980593									
IGI	EDI		F24D23	F24D24					
o0980602									
IM-a@g	EDI		F24D25	F24D26					
o0980607									
KA ₂ ~d	EDI		F24D27	F24D28					
o0980627									
KEŠ ₂	EDI		F24D29	F24D30					
o0980661									
KU-a@t	EDI		F24D31	F24D32					
o0980694									
KUN	EDI		F24D33	F24D34					
o0980706									
LA~e	EDI		F24D35	F24D36					
o0980725									

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							
ŠITA~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						
UŠUR ₃ ~a	EDI o0981496						
ZADIM	EDI o0981512						
(ZU&ZU).SAR~a	EDI o0981523						
ZATU737×ŠITA~b1@g CDLI: ZATU737×ŠITA@g~a o0981701 ZATU746	EDI						

H 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 o0982241 ZATU058	DEL						
EZEN~c o0982242 ZATU150	DEL						
NINDA ₂ ×GUDU ₄ o0982243 ZATU406	DEL	1 2 1 3	 				
RI~x o0982244	DEL						

I 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.

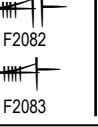
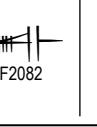
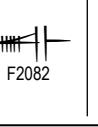
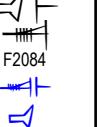
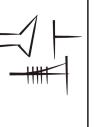
PCSL	FONT	CDLI	ATU3	ATU5	MSVO1	MSVO4	CUSAS
5(LAGAB~a) o0981826	NUM F2543	○○ ○○					
10(N01) 2× III: 2p o0981837	PC25 F00DA	BBB BBB					
1(N08~b) 1× III: 1u o0981901	NUM F00F5	# #	𠂔 𠂔				
2(N08~b) 4× III: 1p/3u o0981902	PC25 F00F6	# #	𠂔 𠂔				
3(N08~b) 1× III: 1u o0981903	NUM F00F7	# #	𠂔 𠂔				
4(N08~b) 1× III: 1u o0981904	NUM F00F8	# #	𠂔 𠂔				
4(N08~c) 1× III: 1u o0981905	NUM F00F9	# #	𠂔 𠂔				
1(N08~v) 1× III: 1u o0982197	NUM F00FA	𠂔					
1(N08@f)×1(N57) o0981908	NUM F012C	𠂔					
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 F00E0	■■■■■ ■■■■■					
6(N21) 1× IV: 1p o0981983	PC25 F00EO	●●● ●●●	●●●● ●●●●				
1(N22~v) 1× III: 1p o0981986	PC25 F00FD	𠂔 𠂔					
1(N23) 2× III: 1p/1u o0981989	Pelm F00FE	𠂔 𠂔	𠂔 𠂔				
2(N23) 1× III: 1p o0981990	Pelm F00FF	𠂔 𠂔	𠂔 𠂔				

3(N23)		Pelm						
1× III: 1p	o0981991							
5(N23)		Pelm						
1×	o0981992							
7(N23)		Pelm						
1× III: 1p	o0981993							
2(N24)		NUM						
	o0981995							
4(N24)		NUM						
	o0981996							
6(N24)		NUM						
1× IV: 1u	o0981997							
1(N24@f)		PC25						
2× III: 2p	o0981998							
2(N29A)		PC25						
AKA: 2(N29~a)								
4× III: 4p	o0982009							
2(N29AB)		PC25						
AKA: 2(N29A~b)								
2× III: 2p	o0982011							
1(N30B)		PC25						
AKA: 1(N30~b)								
2× III: 2p	o0982016							
1(N30CA)		PC25						
AKA: 1(N30C~a) 1(N30C~a)								
1× III: 1p	o0982018							
1(N30CB)		NUM						
	o0982019							
1(N34)×1(N58)		PC25						
1× III: 1p	o0982027							
1(N43)		PC25						
3× III: 2p/1u	o0982088							
4(N43)		PC25						
1× III: 1p	o0982089							
1(N44)		PC25						
1× IV: 1p	o0982090							
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	F00E6						
8(N45@f)	OOR							
	o0982107	F00E7						
9(N45@f)	OOR							
	o0982108	F00E8						
3(N46)	PC25							
1x III: 1p	o0982112	F00E9						
3(N47)	OOR							
1x IV: 1u	o0982117	F00EA						
6(N48)	OOR							
2x IV: 2u	o0982123	F00EB						
7(N48)	OOR							
1x IV: 1u	o0982124	F00EC						
1(N48@f)	NUM							
	o0982125	F00ED						
5(N49)	OOR							
	o0982130	F00ED						
3(N53)	PC25							
1x IV: 1p	o0982163	F00EE						
1(N55)	PC25							
1x IV: 1p	o0982169	F00EF						
1(N59)	PC25							
1x III: 1p	o0982192	F0124						
2(N59)	PC25							
1x III: 1p	o0982193	F0125						
3(N59)	PC25							
18x III: 11p/7u	o0982194	F0126						
4(N59)	PC25							
3x III: 2p/1u	o0982195	F0127						
6(N59)	PC25							
3x III: 3p	o0982196	F0128						
7(N59)	PC25							
1x III: 1p	o0981906	F2536						
3(N61)	PC25							
1x III: 1p	o0982199	F0129						
4(N62)	PC25							
1x III: 1p	o0982200	F012A						
1(N63)	NUM							
2x III: 2u	o0982201	F012B						

J 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: 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				

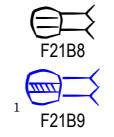
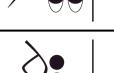
ENGIZ	PC25-sq	1 2				
21× III: 20p/1u	o0980321	ZATU140				
ENKUM	PC25-sq	1 2				
13× III: 9p/4u	o0980322	ZATU141				
ENLIL	ZERO					
	o0980323	ZATU142	F2235	F2235		
ERIM₂	PC25-sq					
22× III: 18p/4u	o0980329	ZATU144	F2255	F2255		F2255
GA~a.ZATU753	PC25-sq	1 				
85× IV: 1u; III: 63p/21u	o0980359	ZATU161	F20D1 F20D2			
GIBIL₆	PC25-sq	1 				
2× III: 2p	o0980497	ZATU215	F20E4 F20E5			
GIR~a.KU₆~a	PC25-sq					
1× III: 1p	o0980501		F223E			
GIR~b.GIR~b	PC25-sq					
4× III: 4p	o0980503		F223F	F223F		
GIŠ.TE	PC25-sq					
27× III: 24p/3u	o0980521	ZATU226	F2242		F2242	F2242
GIZZAL~v	UNP					
CDLI: GIZZAL~x			F223C			
1× III: 1u	o0980540	ZATU231				
GU₄.ZATU755~b	PC25-sq					
AKA: GU₄.ZATU755~a						
CDLI: GU₄.ZATU755~a						
1× IV: 1p	o0980544					
GUKKAL~a.HI@g~a	PC25-sq					
2× IV: 2p	o0980558	ZATU241	F2245	F2245		
HI.SUHUR	PC25-sq	1 2 				
7× IV: 2u; III: 2p/3u	o0980580	ZATU256	F20F6 F20F7 F20F5			
HIxLAGAB~a	PC25-sq					
3× III: 3p	o0980581		F2246		F2246	

 (HI×1(N57)).(HI×1(N57)) 	PC25-sq	 F20F8  1 F20F9					
CDL: (HI×1(N57))&(HI+1(N57)) 1× III: 1p	o0980586						
ILDUM~a	PC25-sq	 F2253	 F2253				
1× IV: 1p	o0980604	ZATU263					
ILDUM~b	PC25-sq	 F2254	 F2254	 F2254			
4× III: 4p	o0980605	ZATU263					
 IR~a.GA₂~a1 	PC25-sq	 F2247	 F2247				
1× III: 1p	o0980612						
IR₁₁	PC25-sq	 1 F20FF  F20FE	 F20FF				
9× III: 5p/4u	o0980616	ZATU268					
 KA~a.ŠE~a 	PC25-sq	 F2108  1 F2109	 F2108				
1× III: 1p	o0980622	ZATU274					
 KAK~a.GA₂~a1 	PC25-sq	 F2248	 F2248	 F2248			
3× III: 3p	o0980636						
KAR	PC25-sq	 F2272	 F2272	 F2272			
7× IV: 2u; III: 4p/1u	o0980650	ZATU283					
KINGAL	PC25-sq	 1 F2111  F2110	 F2111	 F2110	 F2111		 F2110
44× IV: 3p; III: 31p/10u	o0980678	ZATU294					
KIR₁₁	PC25-sq	 F225E	 F225E				
22× III: 7p/15u	o0980679						
 KU₆~a.1(N02) 	PC25-sq	 F224A	 F224A				
3× III: 3p	o0980700						
 KU₆~a+GIŠ 	ZERO	 F2249	 F2249				
	o0980701						
 KUR~a.E₂~a 	PC25-sq	 F224B	 F224B				
13× III: 11p/2u	o0980708	ZATU130					
 KUR~a.NUNUZ~a1 	ZERO	 F224C	 F224C				
	o0980709						
 KUR~b.E₂~a 	UNP	 F224D	 F224D				
1× IV: 1u	o0980711	ZATU130					
 LAGAB~b.TE 	PC25-sq	 128CF					
10× IV: 1p; III: 9p	o0980754						
LAHTAN₂	PC25-sq	 F2266	 F2266	 F2266			
9× III: 7p/2u	o0980773	ZATU324					

LI		PC25-sq					
7x III: 7p	o0980794	ZATU330	1 				
LUGAL		PC25-sq					
13x IV: 1u; III: 8p/4u	o0980799	ZATU334					
MURUB ₂		PC25-sq					
5x III: 3p/2u	o0980866	ZATU371					
MUŠEN.UR ₃ -b2		PC25-sq					
2x IV: 1p/1u	o0980872	ZATU377	1 				
MUŠEN.3(N58)		UNP					
1x III: 1u	o0980873						
1(N02).RU		PC25-sq					
1x III: 1p	o0980876						
NAMEŠDA		PC25-sq					
87x IV: 2p/1u; III: 66p/18u	o0980902	ZATU387					
NANNA-a		PC25-sq					
11x III: 6p/5u	o0980903	ZATU388					
NANNA-b		PC25-sq					
2x III: 2p	o0980904	ZATU388					
NERGAL-v		PC25-sq					
CDLI: NERGAL-x 1x III: 1p	o0980912	ZATU392					
NI-a.RU		PC25-sq					
78x III: 78p	o0980918						
NIN		PC25-sq					
107x IV: 1p/1u; III: 67p/37u	o0980933	ZATU400					
NINKUM		PC25-sq					
10x III: 10p	o0980969	ZATU412					
NINLIL		PC25-sq					
4x III: 4p	o0980970	ZATU413					
NUN~b.U ₄		PC25-sq					
1x III: 1p	o0980988						

SAL.KUR~a 50x IV: 3p/1u; III: 33p/12u	PC25-sq o0981042 ZATU201	UNP	 F2258	 F2258	 F2258	 F2258	
SAL.LAM~b 2x III: 2u	o0981043		 F225A	 F225A			
SAL.ME~a AKA: LUKUR 1x III: 1p	PC25-sq o0981044		 129A1				
SAL.ŠU ₂ 2x III: 2p	PC25-sq o0981045		 F225F	 F225F			 F225F
SAL.ZATU751~a CDLI: SAL.ZATU751~a 1x III: 1p	PC25-sq o0981046	ZERO	 F2260			 F2260	
SAL.ZATU751~b CDLI: SAL+ZATU751~b	o0981047		 F2261			 F2261	
SAL.ZATU751~c CDLI: SAL+ZATU751~c 1x III: 1p	PC25-sq o0981048		 F2262				 F2262
SIPA	PC25-sq o0981147		 F2178	 F2179	 F2179		
SUSA	PC25-sq o0981176 ZATU499		 F2250	 F2250	 F2250		
ŠAB~a 79x IV: 5p/1u; III: 63p/10u	PC25-sq o0981187 ZATU504		 1 F2189	 F2188	 F218A	 F2189	 F218A
ŠAB~b 9x III: 9p	PC25-sq o0981188 ZATU504		 1 F218C	 F218B			
ŠANDANA~a 2x III: 2p	PC25-sq o0981198	UNP	 F223B	 F223A			
ŠANDANA~b 1x III: 1u	o0981199						
ŠE~a.GAR 2x III: 2p	PC25-sq o0981201		 F2228	 1 F2229			 F2228
ŠE~a.KIN ₂ c 5x III: 5p	PC25-sq o0981202 ZATU512		 F2190	 1 F2191	 F2191		
ŠE~a.NAM ₂ 109x IV: 10p; III: 58p/39u	PC25-sq o0981203 ZATU513		 F2192	 1 F2193	 F2193	 F2192	 F2192

ŠELU		PC25-sq						
32x IV: 25p; III: 6p/1u	o0981211	ZATU520	F2264	F2264				
ŠU ₂ .AN		UNP						
AKA: ŠU ₂ +AN ŠU ₂ .AN ŠU ₂ ×AN 4x III: 2u	o0981253		12A4A	12A4A				
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	F2268				
ŠU ₂ .EN~a		PC25-sq						
40x IV: 9p/3u; III: 23p/4u	o0981256	ZATU536	F21A7	F21A6		F21A6	F21A6	F21A6
2x ŠU ₂ .EN~b		UNP						
IV: 2u	o0981257	ZATU536	F2269	F2269				
ŠU ₂ .GIŠ		ZERO						
	o0981258		F226A	F226A				
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))) 1x III: 1p	o0981259		F226B					
ŠU ₂ .PAP~a		PC25-sq						
1x III: 1p	o0981260		12A4A					
ŠU ₂ .URI ₃ ~a		PC25-sq						
1x III: 1p	o0981261		F226E	F226E	F226E			
ŠU ₂ .1(N02)		UNP						
2x IV: 1u; III: 1u	o0981262		F226F	F226F				
ŠU ₂ .1(N24)		PC25-sq						
AKA: ŠU ₂ ×1(N24) 1x III: 1p	o0981263		F2270	F2270				
ŠURUPPAK~a		PC25-sq						
48x IV: 3u; III: 35p/10u	o0981273	ZATU544	F21B0	F21AF	F21AF			
ŠURUPPAK~b		PC25-sq						
10x IV: 1u; III: 7p/2u	o0981274	ZATU544	F21B2	F21B1				
TIDNUM		PC25-sq						
1x III: 1p	o0981301	ZATU552	F2241	F2241	F2241			

TUG ₂ ~a.BAD&BAD	PC25-sq						
CDLI: TUG ₂ ~a.(BAD&BAD)							
35× IV: 1p/2u; III: 22p/10u	o0981307	ZATU556 ZATU558	1	F21B9			
TUR ₃ ~a.5(N57)	PC25-sq						
1× III: 1p	o0981324		12A79				
U ₄ .ŠU ₂	PC25-sq						
11× IV: 2p; III: 7p/2u	o0981333	ZATU568	F2275	F2275	F2275		
U ₄ .1(N08)	PC25-sq						
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				
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)			12A7F				
1× III: 1p	o0981343						
U ₄ .1(N14).3(N08)	PC25-sq						
CDLI: U ₄ .(1(N14).3(N08))							
2× III: 2p	o0981344		F227F				
U ₄ .1(N14).4(N08)	PC25-sq						
CDLI: U ₄ .(1(N14).4(N08))							
1× III: 1p	o0981345		F2280			F2280	
U ₄ .1(N14).5(N08)	PC25-sq						
CDLI: U ₄ .(1(N14).5(N08))							
4× III: 2p/2u	o0981346		F2281			F2281	
U ₄ .1(N14).8(N08)	PC25-sq						
CDLI: U ₄ .(1(N14).8(N08))							
1× III: 1p	o0981347		F2282				
U ₄ .2(N14)	PC25-sq						
2× III: 2p	o0981348		F2283				
U ₄ .1(N24)	PC25-sq						
3× III: 3p	o0981349		F2284				

 U₄×1(N01).5(N08) 	PC25-sq						
2× III: 1p/1u o0981353		F2285				F2285	
 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						
CDL: U ₄ ×2(N01).(2(N14).1(N08)) 1× III: 1p o0981358		F2287				F2287	
 U₄×3(N01).3(N08) 	UNP						
1× III: 1u o0981360		F2288					
 U₄×4(N01).2(N14) 	UNP						
1× III: 1u o0981362		F2289					
 U₄×5(N01).1(N14) 	PC25-sq						
1× III: 1p o0981364		F228A					
 U₄×8(N01).X 	PC25-sq						
1× III: 1p o0981367		F2483					
 U₄×(1(N14).3(N01)).1(N14).4(N08) 	UNP						
AKA: U ₄ ×(1(N14).3(N01)).(1(N14).4(N08)) 1× III: 1u o0981374		F253C					
URI₃~b	PC25-sq						
1× IV: 1p o0981461	ZATU595	F228C					
 URU~a1×1(N57) 	PC25-sq						
1× IV: 1p o0981472	ZATU601	F22B0					
 URU~a1×2(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 1 F21D7					
X₂	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 o0981658	ZATU716	F228F			F228F		
 1(N57).AB₂ 	UNP						
1× III: 1u o0982202		F2290					

2(N57).AB ₂		PC25-sq						
1× IV: 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		PC25-sq						
1× III: 1p	o0982210		12BEC					
1(N57).E ₂ ~a		ZERO						
	o0982211		F2297					F2297
3(N57).E ₂ ~b		UNP						
1× III: 1u	o0982212		1 F2222					
3(N57).EN ₂		PC25-sq						
6× III: 6p	o0982213		12BEE					
X(N57).GAR		PC25-sq						
AKA: N(N57).GAR								
CDL: X(N57).GAR								
1× III: 1p	o0982214							
3(N57).GAR		PC25-sq						
2× III: 2p	o0982215		F2298			F2298		
4(N57).GAR		PC25-sq						
5× III: 5p	o0982216		F2299			F2299		
5(N57).GAR		PC25-sq						
8× III: 8p	o0982217		F229A			F229A		F229A
6(N57).GAR		PC25-sq						
4× III: 3p/1u	o0982218		F229B			F229B		F229B
7(N57).GAR		PC25-sq						
1×	o0982219		12BF2					
4(N57).KU ₃ ~a		PC25-sq						
11× III: 11p	o0982220		F229D			F229D		
5(N57).KU ₃ ~a		PC25-sq						
4× III: 4p	o0982221		F229E			F229E		
6(N57).KU ₃ ~a		PC25-sq						
2× III: 2p	o0982222		F229F			F229F		

2(N57).KU ₆ -a	PC25-sq	F22A0	F22A1				
1× III: 1p	o0982223						
1(N57).MUŠEN	PC25-sq	F22A2 12BEC	F22A3				
AKA: MUŠEN×1(N57) CDLI: MUŠEN×1(N57) 5× III: 5p	o0982224						
2(N57).MUŠEN	PC25-sq	F22A3 12BED	F22A4			F22A3	
AKA: MUŠEN×2(N57) CDLI: MUŠEN×2(N57) 27× IV: 1p; III: 25p/1u	o0982225						
3(N57).MUŠEN	PC25-sq	F22A4	F22A5			F22A4	
AKA: MUŠEN×3(N57) CDLI: MUŠEN×3(N57) 1× III: 1p	o0982226						
3(N57).NUNUZ-a1	PC25-sq	F22A5	F22A6				
23× III: 20p/3u	o0982227	ZATU424					
3(N57).NUNUZ-c	PC25-sq	F22A6					
2× III: 1p/1u	o0982228	ZATU424					
3(N57).PIRIG-b1	PC25-sq	F22A7	F22A7	F22A7			
35× IV: 1p/1u; III: 25p/8u	o0982229	ZATU429					
3(N57).SANGA-a	PC25-sq	F22E					
1× III: 1p	o0982230						
3(N57).SI	PC25-sq	F22E					
2× III: 2p	o0982231						
1(N57).SIG	PC25-sq	F22A8	F22A9				
AKA: SIG×1(N57) CDLI: SIG×1(N57) 1× IV: 1p	o0982232						
2(N57).SU-a	UNP	F22A9					
1× IV: 1u	o0982233						
1(N57).ŠAH ₂ -a	PC25-sq	F22AA	F22AA				
4× III: 4p	o0982234						
1(N57).ŠUBUR	PC25-sq	F221F F2220	F221F F2220	F2220		F2220	
40× IV: 7p/1u; III: 22p/10u	o0982235	ZATU540					
2(N57).ŠUBUR	PC25-sq	F22AB	F22AB				
2× III: 2p	o0982236						
3(N57).ŠUBUR	PC25-sq	F22AC	F22AC				
3× III: 3p	o0982237	ZATU540					
3(N57).UDU-a	ZERO	F22AD				F22AD	
	o0982238	ZATU577					
2(N57).UDUNITA-a	ZERO	F22AE				F22AE	
	o0982239						
3(N57).UDUNITA-a	ZERO	F22AF				F22AF	
	o0982240						

K 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 12AF0		PC25						
		o0981499		12AF0	12AF0	12AF0	12AF0	12AF0
UTUA~a@t 12AF1		PC25						
		o0981500		12AF1	12AF1			
UTUA~b 12AF2		PC25						
		o0981501		12AF2	F21D5	F21D5		
UTUL~a 12AF3		PC25						
		o0981502		12AF3	12AF3	12AF3	12AF3	12AF3
UTUL~b 12AF4		PC25						
		o0981503		12AF4	12AF4	12AF4		
UTUL~c 12AF5		PC25						
		o0981504		12AF5	12AF5	12AF5		
UTUL~d 12AF6		PC25						
		o0981505		12AF6	12AF6	12AF6		
ZUBI~a 12B03		PC25						
		o0981524		12B03	12B03			

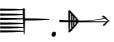
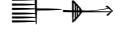
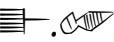
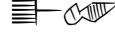
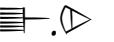
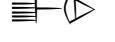
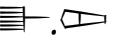
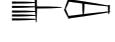
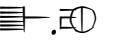
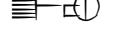
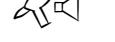
L Sequences Data

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.

CHARNAME/GLYFNAME/DECOMP	PUA	LIG./liga
AMAR.1(N02) AMAR.1(N02) 	F222B	 u126B4_u125BE.liga
AN.IM~a.GI ₆ AN.IM~a.GI ₆ 	F222C	 u126B7_u12861_u1288E.liga
APIN~a.APIN~a APIN~a.APIN~a 	F222D	 u126BD_u126D2.liga
BU~b.NA ₂ ~a BU~b.NA ₂ ~a 	F222E	 u126ED_u12A10.liga
BULUG ₃ .DU ₆ ~a BULUG ₃ .DU ₆ ~a 	F222F	 u126F0_u12750.liga
DA~a.LIŠ DA~a.LIŠ 	F2230	 u126F6_u129B5.liga
DU.ME~a.NUN~a DU.ME~a.NUN~a 	F2084	 u1271E_u12908_u12A74.liga
DU.U ₄ .1(N14).1(N08) DU.U ₄ 	F2231	 u1271E_u12BE1.liga
E ₂ ~a.LIŠ E ₂ ~a.LIŠ 	F2232	 u1277F_u129B5.liga
E ₂ ~a.NUN~a E ₂ ~a.NUN~a 	F2233	 u1277F_u12A74.liga

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
————— GUKKAL~a.HI@g~a		
GUKKAL~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@t		
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
KU ₆ ~a.1(N02)		
KU ₆ ~a.1(N02)		F224A
KUR~a.E ₂ ~a		
KUR~a.E ₂ ~a		F224B
KUR~a.NUNUZ~a1		
KUR~a.NUNUZ~a1		F224C
KUR~a.RU		
KUR~a.RU		F21B0
KUR~a.RU		
KUR~a.RU ~1		F21AF
KUR~b.E ₂ ~a		
KUR~b.E ₂ ~a		F224D
LAGAB~b.TE		
LAGAB~b.TE	0	
ME~a.EN~a.ŠE~a.ŠA		
ME~a.EN~a.ŠE~a.ŠA		F224E
MUŠ ₃ ~a.AB~a		
MUŠ ₃ ~a.AB~a		F224F
MUŠ ₃ ~a.ERIN		
MUŠ ₃ ~a.ERIN		F2250
MUŠ ₃ ~a.UNUG~a		
MUŠ ₃ ~a.UNUG~a		F2251
MUŠEN.ŠE~a		
ŠE~a°MUŠEN		F21D6

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		F2127
		u12A0F_u12B52.liga
ŠELU		
ŠE~a.GUG ₂		F2264
		u12A22_u128C8.liga
ŠEŠ~a.NA~a		
ŠEŠ~a.NA~a		F2265
		u12A32_u12A0B.liga
ŠITA~a1.MUD ₃ ~a		
ŠITA~a1.MUD ₃ ~a		F2266
		u12A39_u129EF.liga
ŠU ₂ .E ₂ ~a		
ŠU ₂ .E ₂ ~a		F2267
		u12A4A_u127CA.liga
ŠU ₂ .E ₂ ~b		
ŠU ₂ .E ₂ ~b		F2268
		u12A4A_u127CE.liga
ŠU ₂ .EN~a		
ŠU ₂ .EN~a		F21A8
		u12A4A_u127D9.liga
ŠU ₂ .EN~a ~1		
ŠU ₂ .EN~a ~1		F21A6
		u12A4A_u127D9.liga.cv01
ŠU ₂ .EN~a ~2		
ŠU ₂ .EN~a ~2		F21A7
		u12A4A_u127D9.liga.cv02
ŠU ₂ .EN~b		
ŠU ₂ .EN~b		F2269
		u12A4A_u127DA.liga
ŠU ₂ .GIŠ		
ŠU ₂ .GIŠ		F226A
		u12A4A_u128A7.liga
ŠU ₂ .(HI×1(N57).HI×1(N57))		
ŠU ₂ .(HI×1(N57)).(HI×1(N57))		F226B
		u12A4A_u12853_u128EC.liga
ŠU ₂ .PAP~a		
ŠU ₂ .PAP~a		F226C
		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) $		
$ U_4 \cdot 4(N08) $	$ U_4 \cdot 4(N08) $		
$ U_4 \cdot 5(N08) $	$ U_4 \cdot 5(N08) $		
$ U_4 \cdot 6(N08) $	$ U_4 \cdot 6(N08) $		
$ U_4 \cdot 7(N08) $	$ U_4 \cdot 7(N08) $		
$ U_4 \cdot 8(N08) $	$ U_4 \cdot 8(N08) $		
$ U_4 \cdot 1(N14) $	$ U_4 \cdot 1(N14) $		
$ U_4 \cdot 1(N14).1(N08) $	$ U_4 \cdot 1(N14).1(N08) $	0	
$ U_4 \cdot 1(N14).3(N08) $	$ U_4 \cdot 1(N14).3(N08) $		
$ U_4 \cdot 1(N14).4(N08) $	$ U_4 \cdot 1(N14).4(N08) $		
$ U_4 \cdot 1(N14).5(N08) $	$ U_4 \cdot 1(N14).5(N08) $		
$ U_4 \cdot 1(N14).8(N08) $	$ U_4 \cdot 1(N14).8(N08) $		
$ U_4 \cdot 2(N14) $	$ U_4 \cdot 2(N14) $		

$ U_4 \cdot 1(N24) $			
$ U_4 \cdot 1(N24) $	F2284		u12A7F_u125AA.liga
$ U_4 \times 1(N01).5(N08) $			
$ U_4 \times 1(N01).5(N08) $	F2285		u12A80_u1255D.liga
$ U_4 \times 2(N01).2(N14) $			
$ U_4 \times 2(N01).2(N14) $	F2286		uF2481_u12563.liga
$ U_4 \times 2(N01).2(N14).1(N08) $			
$ U_4 \times 2(N01).2(N14).1(N08) $	F2287		uF2481_u12563_u12559.liga
$ U_4 \times 3(N01).3(N08) $			
$ U_4 \times 3(N01).3(N08) $	F2288		u12A82_u1255B.liga
$ U_4 \times 4(N01).2(N14) $			
$ U_4 \times 4(N01).2(N14) $	F2289		u12A83_u12563.liga
$ U_4 \times 5(N01).1(N14) $			
$ 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) $			
$ U_4 \times (1(N14).3(N01)).1(N14).4(N08) $	F228B		uF253C_u12562_u1255C.liga
$ URI_3 \sim a.AB \sim a $			
$ URI_3 \sim a.AB \sim a $	F228C		u12AD4_u12698.liga
$ URI_3 \sim a.IB \sim a $			
$ URI_3 \sim a.IB \sim a $	F228D		u12AD4_u128F4.liga
$ URI_3 \sim a.NA \sim a $			
$ URI_3 \sim a^oNA \sim a $	F2147		u12AD4_u12A0B.liga
$ URI_3 \sim a.NA \sim a $			
$ URI_3 \sim a.NA \sim a $	F2146		u12AD4_u12A0B.liga.cv01
$ URI_3 \sim a.NA \sim a $			
$ URI_3 \sim a.NA \sim a \sim 1$	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	0	≡ *	
3(N57).EN ₂			
≡ . *		≡ *	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		
=.		
-----	-----	-----
1(N57).MUŠEN		
1(N57).MUŠEN		
-.		
-----	-----	-----
2(N57).MUŠEN		
2(N57).MUŠEN		
=.		
-----	-----	-----
3(N57).MUŠEN		
3(N57).MUŠEN		
=.		
-----	-----	-----
3(N57).NNUUZ~a1		
3(N57).NNUUZ~a1		
=.		
-----	-----	-----
3(N57).NNUUZ~c		
3(N57).NNUUZ~c		
=.		
-----	-----	-----
3(N57).PIRIG~b1		
3(N57).PIRIG~b1		
=.		
-----	-----	-----
3(N57).RU		
3(N57).RU		
=.		
-----	-----	-----
3(N57).RU		
3(N57).RU ~1		
=.		
-----	-----	-----
3(N57).SANGA~b		
3(N57).SANGA~a		
=.		
-----	-----	-----
3(N57).SI		
3(N57).SI		
=.		
-----	-----	-----
1(N57).SIG		
1(N57).SIG		
-.		
-----	-----	-----
2(N57).SU~a		
2(N57).SU~a		
=.		
-----	-----	-----

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

M Implementation Notes on Sequences

This section provides some background on how PCSL handles sequences.

M.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.

M.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.

M.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|.

M.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).

N Fonts for the Proposal

The proposal is supported by two fonts:

N.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

N.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.