

# Revised proposal to encode Proto-Cuneiform in Unicode

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## 1 Questions for Steve

Steve, below are questions I've compiled while reviewing the PC repertoire and your comments document. As you know, I am not a specialist of PC. These questions are all born out of my ignorance of PC, SAC, and related domains, and my general naivete about the scholarly practices of collating and naming such signs. Thank you for your patience with my inquiries.

1. There are 88 signs slated for removal from the repertoire due to being out of chronological scope, ie. not from Uruk IV or Uruk III. Do any of these signs occur with signs from these periods? If so, then should they be encoded to support the complete representation of texts, whether in the PC block or in a different one? Also, do you have more details about which chronological periods they are from?
2. Sort order: I've fixed the internal sorting of numbers so that 1(N02), 2(N02), 1(N34), etc are grouped by the base N02 and not by the count, ie. 1(N02), 1(N34), 2(N02). I've also moved numbers to the end of the order, after 'Z', instead of keeping ordering after 'M', as in ORACC. Ideo-numeric compounds are ordered similarly, after 'Z'. We had identified the sort order as needing more discussion. How do we want to proceed with the sort order? Ideally, the sort order in Unicode would align with the scholarly order (or vice versa).
3. *tenu* vs non-*tenu* : Is there a rule or convention for calling a sign a *tenu* form vs. an allograph? For example, the sign AD~b is a rotated form of AD~a, but there is no *tenu* indication. The sign ADDA@t is a rotated form of ADDA, and is indicated as a *tenu* form, not an allograph.
4. Signs in compounds without independent attestation : Following the model for SAC, we're not encoding signs in compounds that do not occur independently. There are 40+ such signs (see section 9.2). While they won't be going into Unicode, I'd like to add them to the scholarly repertoire, similar to the @compoundonly signs you've listed in the PCSL ASL list. I would place them in the PCSL repertoire, and mark their Unicode status as 'compound-only sign, not scoped for inclusion in the Unicode repertoire'. How do you feel about that?
5. ZATU signs : Are there other specific names or aliases for ZATU signs? If so, would it make sense to rename the existing names? Are there new interpretations for ZATU642, ZATU675~b, ZATU711, ZATU737, etc.? These seem like they'd have different names, just based on their shapes, which are analogous to other non-ZATU-named signs.
6. AN : The sign \* AN~v1 duplicates \* AN, so you've recommended that it be removed. That would leave \* AN and \* AN~v2. I'd recommend renaming \* from AN~v2 to AN~v1 to remove the gap in the variant sequence. Additionally, As \* is a glyptic variant of \*, not an actual alternate form, would it make sense to rename AN~v1 as AN~a, and consider it an allograph? That way it can be referenced in PCSL, even if it's not in the Unicode repertoire.
7. |(BU~a&BU~a).NA<sub>2</sub>~a| : The glyph suggests that the two BU~a components are 'crossing' instead of 'over', compared to |(BU~a&BU~a).NA<sub>2</sub>~a|, in which they are positioned more one 'over' the other. Should be renamed to |(BU~a%BU~a).NA<sub>2</sub>~a|?
8. |(BU~a&BU~a).NA<sub>2</sub>~b| : You state that |(BU~a&BU~a).NA<sub>2</sub>~b| duplicates |(BU~a~v1%BU~a~v1).NA<sub>2</sub>~a@n|, and that the former should be deleted. But for the record, should |(BU~a&BU~a).NA<sub>2</sub>~b| be renamed as |(BU~a~v1%BU~a~v1).NA<sub>2</sub>~b@n|? Also which glyph should be the representative form? The is more

graphically aligned with related signs, such as | (BU~a&BU~a).NA<sub>2</sub>~a|, than is .

9. |DARA<sub>3</sub>~c×(KAR<sub>2</sub>~c.ŠE~a)| : The component named DARA<sub>3</sub>~c in this sign differs from the conventional form of DARA<sub>3</sub>~c that is found in |DARA<sub>3</sub>~c×KAR<sub>2</sub>~b|. It also differs from the DARA<sub>3</sub> forms in |DARA<sub>3</sub>~d×KAR<sub>2</sub>~b|, |DARA<sub>3</sub>~d1×KAR<sub>2</sub>~b|, |DARA<sub>3</sub>~d2×KAR<sub>2</sub>~a1|, |DARA<sub>3</sub>~d2×(KAR<sub>2</sub>~a1.ŠE~a)|. It also differs from DARA<sub>3</sub>~c~v1. Given that the other DARA<sub>3</sub> forms are distinguished allographically, does it make sense to do the same for the form in , eg DARA<sub>3</sub>~c1, so the compound would be renamed |DARA<sub>3</sub>~c1×(KAR<sub>2</sub>~c.ŠE~a)| ?
10. |DUG~axLAM~b| : The sign is given the name |DUG~axLAM~b|. But, the form of LAM here appears to be LAM~b~v1, not LAM~b. Should the name be changed to |DUG~axLAM~b~v1|?
11. DUG~c@t : The CDLI-gh DUG~c has been separated into DUG~c~v1 and DUG~c~v3. Should the name DUG~c@t given to be changed to DUG~c~v1@t?
12. DUG~c2@t : Similar to DUG~c@t above, should the name DUG~c2@t assigned to the new addition be changed to DUG~c~v3@t?
13. |EN~c&EN~c| : The name suggests that this compound consists of two stacked EN~c. But, the in the compound is considerably different. It's like the compound-only EN~d in |NUN~a+EN~d|. Is this a variant of EN~c, if so, should the compound be renamed to |EN~c~v1&EN~c~v1|? Or is it an entirely different type of EN, and should be assigned a distinctive allograph, ie. EN~f, which would then give the distinctive name |EN~f&EN~f|?
14. |EZEN~ax(HI×1(N57).AN)| : The operator . in the name for suggests that (HI×1(N57) is beside \* AN. But, the is above the \*. Should this sign be renamed |EZEN~ax(HI×1(N57)&AN)|? Compare to |EZEN~ax(U<sub>2</sub>~b.A)|, where the U<sub>2</sub>~b is beside A, as suggested by the operator . in the name. If a rename is in order, should an inner group be added, eg. |EZEN~ax((HI×1(N57))&AN)|, cf. |(HI×1(N57)).(HI×1(N57))|.
15. |EZEN~axLA~e| and |EZEN~axLA~e|~v1 : These names are assigned to and , respectively. However, the forms and of LA~e in the signs differ from the conventional LA~e (removed due to chronological scope), and appear to occur only in these compounds. Moreover, for the variant mark is applied to the entire compound rather than to the varying component. Should both of these signs be renamed to distinguish the different forms of LA~e using variant marks? For example |EZEN~axLA~e~v1| and |EZEN~axLA~e~v2| ?
16. |EZEN~bx6(N57)| : The sign is marked for removal from the Unicode repertoire due to being out of chronological scope. However, the sign EZEN~b is retained as is the variant |EZEN~bx6(N57)|~v1 (see below). Given the inclusion of these signs, would it be suitable to also keep ?
17. |EZEN~bx6(N57)|~v1 : The variant mark is applied to the entire compound to distinguish it from |EZEN~bx6(N57)| (removed from repertoire due to scope). Should the variant mark be applied to EZEN~b instead, to distinguish the conventional from the compound-only form ? That would result in |EZEN~bx6(N57)| and |EZEN~b~v1x6(N57)|
18. |GA~a~v1.ZATU753| and |GA~a~v4.ZATU753|~v1 : This names are assigned to and , respec-

tively. But, there appears to be a mistake in the PCSL names. First, for the ~v1 marker is outside of the compound. Second, the normative form of ZATU753 is . Should these be more appropriately named as |GA~a~v1.ZATU753~v1| (where ZATU753~v1 is compound-only) and |GA~a~v4.ZATU753| ?

19. GAN~b : This sign relates to four forms: GAN~b, GAN~b~v1, GAN~b~v2 GAN~b~v3. Should the names for some of these be revised, following the pattern for DUG~b? We have DUG~b and DUG~b~v1. It seems should be GAN~b (squared left portion) instead of GAN~b~v3, and should be GAN~b~v1 (triangular left portion) instead of GAN~b. The signs and seem like different allo-graphs of GAN~b altogether, eg. GAN~b2~v1 and GAN~b2~v2. So would it make sense to adopt the following renaming: GAN~b. GAN~b~v1, GAN~b1~v1, GAN~b1~v2 ?
20. |GAN~c×LAGAB~b| : This name is assigned to . Should the sign be renamed |GAN~c~v1×LAGAB~b| so that it more accurately indicates the base GAN~c~v1 rather than GAN~c?
21. |GAN~c×SIG,| : This name is assigned to . Should the sign be renamed |GAN~c~v1×SIG,| so that it more accurately indicates the base GAN~c~v1 rather than GAN~c?
22. |(GIŠ×(DIN.DIN)) : |(GIŠ×(DIN.DIN))~a| 'and |(GIŠ×(DIN.DIN))~b| have names that suggest a conventional form of GIŠ, but the two are entirely distinct graphically. Should the GIŠ forms be treated differently?
23. |GIŠ×ŠU<sub>2</sub>~b| : The form of GIŠ in differs from the conventional form of GIŠ. Should this form be annotated as a variant of GIŠ, ie. GIŠ~v1? If so, the compound should be renamed |GIŠ~v1×ŠU<sub>2</sub>~b|.
24. |LAGAB~a×KUŠU<sub>2</sub>~a@t| : The sign has a rotated form of KUŠU<sub>2</sub>, eg. . but is it KUŠU<sub>2</sub>~a or KUŠU<sub>2</sub>~b? It seems to be the latter, based on the bottom edge being tapered instead of fanning out. Or is a new allograph, ie. KUŠU<sub>2</sub>~c?
25. |LAGAB~a×NUN~b| : Seems like has some extra hashes at the end of NUN~b. Can NUN~b take a varying number of slashes and still be NUN~b... or do we have something like a NUN~c here? Compare to the allographic difference in the number of hashes as distinguished in TUR<sub>3</sub>~a and TUR<sub>3</sub>~b.
26. LAM~b@r : This name is assigned to , which implies it is a reversed form of LAM~b? Is this an accurate interpretation? If we look at KUR there is KUR~a and KUR~b, where is truly a reversed form of , ie. \*KUR~a@r. Should be assigned a new name, eg. LAM~b~v3, following LAM~b~v1, LAM~b~v2?
27. LAM~b@s : This name is assigned to , which suggests that the base form is LAM~b. However, the base form resembles LAM~b~v1. Should LAM~b@s be renamed to LAM~b~v1@s?
28. |LU<sub>2</sub>×GEŠTU~c3| : Name suggests that is LU<sub>2</sub> and GEŠTU~c3. But the GEŠTU~c3 here is reminiscent of the in |SAG~v1×GEŠTU~c|, as well as in |SAG×GEŠTU~a|. These all seem to be different allographs of GEŠTU~c. Should they be marked as such?
29. MAR~a@t : The name assigned to suggests that the sign is a *tenu* form of MAR~a. The two forms have the same orientation, but the former is hatched. Maybe the @t here should be *gunu* instead, ie. MAR~a@g?

30. |MUŠEN.UR<sub>3</sub>~b2| : Name suggests the second component of is , but should it instead be , which appears to be a compound-only sign. This seems like an allograph of UR<sub>3</sub>~b1, if not an actual variant, given the lack of hatches, (or maybe a *nutillu* form?...). I would suggest the sign be renamed, eg. |MUŠEN.UR<sub>3</sub>~c| ... Also, see note below on |MUŠEN×PAP~a|...
31. |MUŠEN×PAP~a| : The sign is suggested for deletion due to an incorrect identification in an unpublished Umma text. It seems like this sign should be renamed |MUŠEN.UR<sub>3</sub>~b2| instead of deleted... See note above on |MUŠEN.UR<sub>3</sub>~b2|...
32. |NINDA<sub>2</sub>×2(N01)| : in the form of 2(N01) does not reflect the conventional 2(N01). Should this be considered a variant of 2(N01), ie. 2(N01)~v1? Or is this typical of vertical stacking / horizontal sequencing patterns? Could it be a different N-form altogether?...
33. |NINDA<sub>2</sub>×GUDU<sub>4</sub>| : This CDLI-gh name applies to a sign with three variants: |NINDA<sub>2</sub>×GUDU<sub>4</sub>|~v2, |NINDA<sub>2</sub>×GUDU<sub>4</sub>|~v3, |, |. The first two have been removed and the last two have been retained, but renamed. Wouldn't it make sense to rename the first two for consistency in the record, even though they are not part of the proposed Unicode repertoire? So, change from |NINDA<sub>2</sub>×GUDU<sub>4</sub>|~v2 to |NINDA<sub>2</sub>×(HI.AN.ME~a)|, and from |NINDA<sub>2</sub>×GUDU<sub>4</sub>|~v3 to |NINDA<sub>2</sub>×(HI.AN.ME~a)| ? If we make these changes, then the original |NINDA<sub>2</sub>×GUDU<sub>4</sub>| names should be added as annotations to the PCSL database as well as the Unicode names list.
34. Glyphs for former |NINDA<sub>2</sub>×GUDU<sub>4</sub>| signs : The glyphs for these signs are identical in terms of composition, but CDLI-gh shows different sizes for them, eg. |NINDA<sub>2</sub>×GUDU<sub>4</sub>|~v2 and |, |NINDA<sub>2</sub>×GUDU<sub>4</sub>|~v3 and |. Which form should be considered representative? (I think the smaller sized components are optimal, optically...)
35. NAB : Following on the question of when is a sign *tenu* and when is it not, we have \* NAB and \*\* NAB~v2. Are there semantic differences between these two? Could \*\* be considered NAB@t?
36. |SAG×GEŠTU~a| : Name for suggests that SAG should be , but the form used is the compound-only allograph . Should this SAG be distinguished, ie. |SAG~a×GEŠTU~a|?
37. |SAG×SAR~a| : Name for suggests that SAG should be , but the form used is SAG~v1. Should this be renamed to |SAG~v1×SAR~a|?
38. SAG@n : In the compound |SAG@n×GEŠTU~b| the SAG@n is intended to refer to an unfinished form of , which is named SAG~v2, as in |SAG~v2×GEŠTU~b|. However, the independent form of SAG@n in CDLI is . So, should be considered as SAG~v2@n. It could be added as a new sign. But, in any case |SAG@n×GEŠTU~b| should be changed to |SAG~v2@n×GEŠTU~b| to account for the different forms of SAG@n.
39. |SAL.LAM~b| : The sign is given the name |SAL.LAM~b|. But, the form of LAM here appears to be LAM~b~v1, not LAM~b. Should the name be changed to |SAL.LAM~b~v1|? See |DUG~a×LAM~b| above.
40. |SILA<sub>3</sub>~a×DUG~a|~v1 : This name assigned to differentiates it from |SILA<sub>3</sub>~a~v1×DUG~a|. The SILA<sub>3</sub>~a appropriately refers to , the sign in , and SILA<sub>3</sub>~a~v1 to the compound-only sign in . The two already have distinctive names, so the variant marker in the name for , which occurs after the compound marker, is not needed. Would it be appropriate to rename |SILA<sub>3</sub>~a×DUG~a|~v1 to |SILA<sub>3</sub>~a×DUG~a| ?

41. |SILA<sub>3</sub>~a×GARA<sub>2</sub>~a| : Is truly or could it be ? I would have expected SILA<sub>3</sub>~a to function regularly as the container in compounds, so would have thought the more appropriate representation for |SILA<sub>3</sub>~a×GARA<sub>2</sub>~a| to be . This is the only SILA<sub>3</sub>~a compound where SILA<sub>3</sub>~a is contained instead of the accompanying sign, compare to , , etc.
42. |SILA<sub>3</sub>~a×ZATU646| : The compound has a form of that three strokes instead of two: . Should this form be catalogued as an allograph of ? If so, this compound-only form could be named ZATU646~a, and the compound would be renamed as |SILA<sub>3</sub>~a×ZATU646~a|.
43. |SILA<sub>3</sub>~c×NI~a| : This name suggests that has the component SILA<sub>3</sub>~c, as found in |SILA<sub>3</sub>~c×SHU| and |SILA<sub>3</sub>~c×ZATU687|. But, the form of SILA<sub>3</sub> here differs from the other variants. It also looks like it could be a *nutillu* form of SILA<sub>3</sub>~a, with the bar crossing the two diagonals, but missing the piece to the right. In any case, would it be appropriate to designate as an allograph similar to the SILA<sub>3</sub>~d in |SILA<sub>3</sub>~d×NI~a|? If so, maybe |SILA<sub>3</sub>~e|, which would give the name |SILA<sub>3</sub>~e×NI~a|?
44. SUKUD@g~b~v1 : This sign is named SUKUD@g~b~v1, implying it's a variant of SUKUD@g~b. But, it appears closer to a variant of SUKUD@g~d? Does its name need to be revised? Also, see question about SUKUD@g~d below.
45. SUKUD@g~d : Is SUKUD@g~d truly a *gunu* form? Or a separate allograph?
46. SUM~a@t : This name is assigned to , implying it's a *tenu* form of SUM~a. But, it seems to be a *tenu* form of SUM~a~v1. Should the name for this sign be revised to SUM~a~v1@t?
47. ŠAB : There are four ŠAB signs: , , , . The ~v1 forms seem more graphically complex. Should they be considered the representative forms? If so, should the variant annotations be flipped?
48. ŠE~a@t~v1 : This is a compound-only sign that occurs in |GEŠTU~a×ŠE~a@t~v1| and |KAŠ~b~v1×ŠE~a@t~v1|. Its name suggests that it is a form of ŠE~a@t with a different rotation. However, the form in differs from the in . In the former, the ŠE~a@t~v1 closely resembles the normative ŠE~a. But, the ŠE in appears to be a separate variant altogether, ie. ŠE~v2@t. Should this distinction of the ŠE forms be maintained in the sign name?
49. |ŠE~a.NAM<sub>2</sub>| and |ŠE~a.NAM<sub>2</sub>|~v1 : These names are assigned respectively to and . However, the independent NAM<sub>2</sub> is . This is the form in |ŠE~a.NAM<sub>2</sub>|~v1. Should the names be swapped? The name |ŠE~a.NAM<sub>2</sub>| is more suitable for . And as has the variant , it should be renamed |ŠE~a.NAM<sub>2</sub>~a| or |ŠE~a.NAM<sub>2</sub>~v1| .
50. ŠEN~c and ŠEN~c@t : Should the names for these signs be flipped: ŠEN~c and ŠEN~c@t ? It seems like the base form is 'horizontal', so should be the regular form and the *tenu* form. Compare to DUG~c~v1 and DUG~c@t.
51. TAR~c : This compound-only sign occurs has four occurrences: |UR<sub>2</sub>×TAR~c|, |UŠ~b×TAR~c|, |UŠ~b~v2×TAR~c|, |AMAR~v2×TAR~c|. Its basic shape appears to be , as in |UŠ~b×TAR~c| and |UŠ~b~v2×TAR~c|, with a *tenu* form in |UR<sub>2</sub>×TAR~c|. However, the form in |AMAR~v2×TAR~c| is different. Is this TAR~c or possibly an allograph TAR~d?

52. TUR@g : This name assigned to 𒌵 implies a *gunu* form of 𒌵 TUR. But, the sign appears to be 𒌵 TUR~v3 instead. Should 𒌵 be renamed TUR~v3@g?
53. |U<sub>4</sub>.3(N08)| : The compound 𒌵 has a variant form (different vertical stacking) of 𒌵 3(N08), which should be identified with a variant marker just as \*3(N08)~v1 is indicated in 𒌵 |U<sub>4</sub>×3(N01).3(N08)~v1|.
54. |U<sub>4</sub>×1(N01).5(N08)| : The sign 𒌵 has a form of 𒌵 5(N08) (different vertical stacking), which should be marked as a variant.
55. |U<sub>4</sub>×5(N57)| .. |U<sub>4</sub>×10(N57)| : This set of signs have variant positioning of numbers, which differs from the orientation of the normative signs indicated in their names:

- 𒌵 |U<sub>4</sub>×5(N57)| : ᩵ 5(N57)
- 𒌵 |U<sub>4</sub>×6(N57)| : ᩶ 6(N57)
- 𒌵 |U<sub>4</sub>×7(N57)| : ᩷ 7(N57)
- 𒌵 |U<sub>4</sub>×8(N57)| : ᩸ 8(N57)
- 𒌵 |U<sub>4</sub>×10(N57)| : ᩹ 10(N57)

On the other hand, the following relate set have similar orientations to their normative number signs:

- ᩵ |U<sub>4</sub>×1(N57)| : ᩵ 1(N57)
- ᩵ |U<sub>4</sub>×2(N57)| : ᩶ 2(N57)
- ᩵ |U<sub>4</sub>×3(N57)| : ᩷ 3(N57)
- ᩵ |U<sub>4</sub>×4(N57)| : ᩸ 4(N57)

Should |U<sub>4</sub>×5(N57)| .. |U<sub>4</sub>×10(N57)| be given allograph or variant annotations?

56. |UKKIN~b×5(N01)| : This sign 𒌵 has a different orientation of its numerical component than the conventional ᩵ 5(N01). Is an allograph or variant annotation needed for 5(N01)?
57. |URU~a3×KALAM~a| : The sign ᩵ has a form ᩵ of KALAM~a that differs from the named form ᩵ KALAM~a. Should the ᩵ be renamed to properly identify the component, ie. KALAM~g ?
58. |UŠ~b×TAR~d| : Even though the sign ᩵ |UŠ~b×TAR~d| has been removed from the Unicode repertoire, it should be renamed for consistency for record. The form of UŠ~b in the sign is more aligned with the compound-only sign ᩵ \*UŠ~b~v2 that occurs in ᩵ |UŠ~b~v2×TAR~c|, than with the conventional ᩵ UŠ~b, eg. ᩵ |UŠ~b×TAR~c|, ᩵ |UŠ~b&UŠ~b|. I suggest this sign ᩵ be renamed |UŠ~b~v2×TAR~d|.
59. |1(N57).ŠUBUR~v1| : This compound name for ᩵ distinguishes the compound-only ᩵ form of ŠUBUR from the conventional ᩵ form found in ᩵ |1(N57).ŠUBUR|. However, the 1(N57) in the former seems to be a *tenu* form, as compared to the 1(N57) in the conventional form. Should |1(N57).ŠUBUR~v1| be renamed as |1(N57@t).ŠUBUR~v1|? Or is the placement of the 1(N57) with regard to ᩵ naturally expected for 1(N57) given the shape of the variant ŠUBUR?
60. |1(N57)×SIG| : This name is assigned to ᩵, as a revision of CDLI-gh |SIGx1(N57)| due to the ordering of components in the compound. But, is the compound operator truly × ‘plus’ as opposed to . ‘beside’? Compare with ᩵ |2(N57).AB<sub>2</sub>| where there is similar compound behavior, but there is more containment in ᩵ than in ᩵. Neither appear to have ‘time’ behavior, so should |1(N57)×SIG| be renamed as |1(N57).SIG|?

61. 6(N57) in compounds : The == 6(N57) occurs in a few compounds, such as ➤ |6(N57).GAR| and ➤ |6(N57).KU<sub>3~a</sub>|, in which the representation of the number differs from the conventional sign. Should these forms annotated as variants?
62. 8(N57) in compounds : The === 8(N57) occurs in ➤ |8(N57).NI~b|, but with a different form. Should this form be marked distinctively?
63. 'Ignore' vs 'keep' : The data file has recommend = 'keep' for |1(N08@f)×1(N57)| and |1(N34)×1(N58)|. As these are pure numeric compounds, I've changed the recommendation from 'keep' to 'ignore' and added them to the list of numerical signs that should be moved to the archaic numbers proposal. Is this ok?
64. -- |1(N57).1(N57)| is marked for removal, but given that it is a numerical compound, should it be ignored instead, and moved to the archaic numbers proposal?

## 2 Introduction

This is a revised proposal to encode ‘Proto-Cuneiform’ 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 (see fig. ??–??). 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.

This proposal supersedes the following documents:

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

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

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

Numerical signs have been moved to:

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

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

- Establishing the scope of the encoding to cover signs from Uruk IV and Uruk III
- Usage of PCSL the conventional transliteration system
- Revision of PCSL sign names and Unicode character names
- Addition of 4 new signs
- Glyph revisions for 9 signs
- Separation of 361 numerical signs into a separate Unicode proposal for archaic numbers (L2/24-210)
- Removal of 88 signs due to being out of scope for Proto-Cuneiform
- Removal of 2 signs due to incorrection identification
- Unification of 7 signs due to duplication or glyptic similarity

### 3 Changes to the Base Scholarly Repertoire

The Unicode repertoire for ‘Proto-Cuneiform’ is derived from the sign list published by the Cuneiform Digital Library Initiative (CDLI), which was created and curated by the late Robert Englund. Referred to here as CDLI-gh, it is a collection of Englund’s digital renderings of PC signs, which was assembled over a long period of time and, as a result, exhibits some inevitable inconsistencies. There are a few signs in ZATU which are not in CDLI-gh, mostly because they were read differently by Englund than by the original editors of the text. Similarly, there are some signs in CDLI-tc/LLATU that are not in CDLI-gh, eg. UZ~a.

The CDLI-gh repertoire contains 2095 signs, consisting of 349 single numeric signs, 1106 single ideographic signs, and 640 compound signs. There are 210 signs with variants, and a total of 280 variant signs. For purposes of analyzing the distinctive signs of the repertoire for encoding in Unicode, Pandey distinguished variant forms as separate signs and incorporated them into the proposed repertoire in L2/23-190. The additional 280 signs were added to the base set of 2095 signs, resulting in an expanded repertoire of 2375 signs.

Expanded CDLI-gh repertoire

Class	Type	Base	Without Variants	With Variants	Total Variants	Total Distinct + Variant Signs
single (1455)	numeric	349	339	10	10	359
	ideographic	1106	935	171	234	1340
compound (640)	numeric	3	3	0	0	3
	ideographic	478	456	22	27	505
	numero-ideographic	30	28	2	2	32
	ideo-numeric	129	124	5	7	136
total		2095	1885	210	280	2375

Tinney (L2/24-211) performed a detailed analysis of Pandey’s L2/23-190, and suggested the addition of 4 signs to the repertoire:

PCSL repertoire

Class	Type	Base	Added	Total Distinct
single (1699)	numeric	359	0	359
	ideographic	1340	3	1343
compound (676)	numeric	3	0	3
	ideographic	505	1	506
	numero-ideographic	32	0	32
	ideo-numeric	136	0	136
total		2375	4	2379

Tinney also provided significant recommendations for revisions to sign names, unification of signs that should be considered glyptic variants, and the exclusion of signs from the Unicode repertoire on account of scope. Based upon those recommendations, the revised Unicode repertoire consists of 1921 characters:

Revised Unicode repertoire						
Class	Type	Base	Merged	Out of scope (Numeric)	Out of scope (Chronology)	Retained
single (1702)	numeric	359	0	359	0	0
	ideographic	1343	4	0	44	1295
compound (677)	numeric	3	0	2	1	0
	ideographic	506	5	0	36	465
	numero-ideographic	32	0	0	0	32
	ideo-numeric	136	0	0	7	129
total		2379	9	361	88	1921

Details on the signs excluded from the proposed Unicode repertoire are provided in § 6, while the proposed repertoire is given in § 7.

### 3.1 Revisions to Sign Names

Revisions to the original CDLI-gh sign names have been made to align with usage conventions in CDLI-tc. The changes described below have been made to the full set of CDLI-gh signs described in L2/23-190, even though some signs have been removed from the proposed Unicode repertoire.

- Usage of ORACC transliteration conventions : Transliteration conventions differ between the various resources. The CDLI/ORACC transliteration is called ATF. In ATF, letters used to differentiate sign forms are indicated with a tilde followed by a lowercase letter ( $\text{I}\check{\text{s}}\text{~a}$ ); in publications this is usually rendered as a simple subscript ( $\text{I}\check{\text{s}}_a$ ). Similarly, variant numbers are concatenated in text ( $\text{I}\check{\text{s}}\text{~a}1$ ) but subscripted in print ( $\text{I}\check{\text{s}}_{a1}$ ). Note that without a preceding lowercase letter, a subscripted number is a sign index, differentiating distinct signs that are in contemporary transliteration homophonous (e.g.,  $\text{DU}_6$  vs  $\text{DU}_8$ ). Chief differences between CDLI-gh and PCSl conventions are:
  - ‘S’ instead of the ASCII digraph ‘sz’
  - ‘x’ as a ‘times’ operator instead of ASCII ‘x’
  - ‘%’ as a ‘crossing’ operator, to distinguish from ‘x’
  - Usage of subscript numbers for sign index, eg.  $\text{DU}_6$  vs  $\text{DU}4$
- General normalization: Correction of names that include capitalization or removal of the compound delimiter ‘|’ from non-compound signs:

	$  \times(\text{N}57) \cdot \text{GAR}  $	$\hookleftarrow$	$  1(\text{N}01@\text{r})  $
	$  \times(\text{N}57) \cdot \text{GAR}  $		$1(\text{N}01@\text{r})$

- Annotation of variants: In CDLI-gh, a single sign name is used for an entry that has multiple forms, eg. DUG~b is used in CDLI-gh for both  and . The same applies to the names for compound characters, where the components are not specifically described, eg. |DUG~bxSZE~a| is used for  and . This reduces the ability to disambiguate meaningful differences between forms of signs. To more precisely indicate these distinctions, in PCSL the components are fully labelled using a the variant marker ~v, and multiple variants are indicated using serial numbers after the marker, eg. ~v1. Accordingly,  and  are named DUG~b and DUG~b~v1, respectively. Likewise,  and  are named |DUG~bxŠE~a| and |DUG~b~v1xŠE~a|. As a result, the same sign form is now consistently identified when occurring independently and when occurring as a component of a compound.
- Addition of modifiers: A modifier has been added to the sign name for compounds whose components have a different orientation than the independent sign, eg.  has a *tenu* form of  KUŠU<sub>2</sub>~a, but the CDLI-gh name |LAGAB~axKUSZU2~b| does not indicate this rotation. Accordingly, the name has been revised to |LAGAB~a×KUŠU<sub>2</sub>~a@t|.
- Normalization of modifiers for uniformity: Corrections have been made to sign names that contain irregular placement of modifiers or are missing the modifier marker '@' is missing.



CDLI: |E2~ax1(N57)@t|  
PCSL: |E<sub>2</sub>~a×1(N58@t)|



CDLI: |U4x1(N01)F|  
PCSL: |U<sub>4</sub>×1(N01@f)|



CDLI: |E2~bx1(N57)@t|  
PCSL: |E<sub>2</sub>~b×1(N58@t)|



CDLI: |U4x1(N58)@t|  
PCSL: |U<sub>4</sub>×1(N58@t)|



CDLI: |GIx1(N58)@t|  
PCSL: |GI×1(N58@t)|



CDLI: |ZATU659x1(N58)@t|  
PCSL: |ZATU659×1(N58@t)|



CDLI: |HIx1(N01)F|  
PCSL: |HI×1(N01@f)|



CDLI: |1(N34F@t)|  
PCSL: 1(N34@f@t)



CDLI: |HIx1(N57)@t|  
PCSL: |HI×1(N57@t)|



CDLI: |1(N58@t)|  
PCSL: 1(N58@t)

- Normalization of operators in compounds: Names for some compounds indicate the interaction of signs using an incorrect operator. For example,

-  is named |LAGAB~bxLAGAB~b|, where the x suggests a containing operation; however, the compound exhibits stacking behavior, which is more accurately described as |LAGAB~b&LAGAB~b|
- , which is named |(GI+&GI)xSZE3| with two operators (+&), but the depiction suggest that & is intended, eg. |(GI&GI)xŠE<sub>3</sub>~v1|
- The sign  is named |(BU~a&BU~a).NA2~a@n| in CDLI-gh. But the & suggests that the two BU~a~v1 are 'above' each other; the use of % appropriately describes their interaction, ie.  
|(BU~a~v1%BU~a~v1).NA<sub>2</sub>~a@n|

A list of names for compounds with revisions to operators is given below:

CDLI:  (BU~a&BU~a).NA2~a@n  PCSL:  (BU~a~v1%BU~a~v1).NA2~a@n	CDLI:  LAGAB~bxLAGAB~b  PCSL:  LAGAB~b&LAGAB~b
CDLI:  EZEN~ax(HI.1(N57).AN)  PCSL:  EZEN~ax(HI×1(N57).AN)	CDLI:  NINDA2x(HI+ME~a)  PCSL:  NINDA <sub>2</sub> ×(HI.ME~a)
CDLI:  GA2~a1x((SUKUD&SUKUD)~a)  PCSL:  GA <sub>2</sub> ~a1x((SUKUD+SUKUD)~a)	CDLI:  NINDA2x((UDU~axTAR)~a)  PCSL:  NINDA <sub>2</sub> ×(UDU~a×TAR~a)
CDLI:  GA2~a1x((SUKUD&SUKUD)~b)  PCSL:  GA <sub>2</sub> ~a1x((SUKUD+SUKUD)~b)	CDLI:  NINDA2x((UDU~axTAR)~b)  PCSL:  NINDA <sub>2</sub> ×(UDU~a×TAR~b)
CDLI:  (GI+&GI)xSZE3  PCSL:  (GI&GI)×ŠE <sub>3</sub> ~v1	CDLI:  SIG2~b.SIG2~b  PCSL:  SIG <sub>2</sub> ~b&SIG <sub>2</sub> ~b
CDLI:  (HI×1(N57))&(HI+1(N57))  PCSL:  (HI×1(N57)).(HI×1(N57))	CDLI:  SZU2.((HI+1(N57))+(HI+1(N57)))  PCSL:  ŠU <sub>2</sub> ~a.(HI×1(N57))&(HI×1(N57))

- Correction of allographs: In some cases, the sign name contains the incorrect allograph of the sign. For example, has the name |GA2~a2x3(N57)| in CDLI-gh, where GA2~a2 suggests , but the actual sign depicted is GA2~a2. Accordingly, the sign has been renamed as |GA<sub>2</sub>~a1x3(N57)|. Similarly, the CDLI-gh names for SZITA@g~a and SZITA@g~b suggest that the base form of both signs is a *gunu* form of \*ŠITA (=ŠITA~a1). However, while the signs are certainly hatched, they have different bases, ie. ŠITA~b1 for SZITA@g~a and ŠITA~a1 for SZITA@g~b. According, these have been renamed to reflect their compositions more precisely, ie. ŠITA~a1@g and ŠITA~b1@g.

CDLI:  GA2~a2xNIM~b1  PCSL:  GA <sub>2</sub> ~a1xNIM~b1	CDLI:  GA2~a2x(GU4.SZE3)  PCSL:  GA <sub>2</sub> ~a2x(ŠE <sub>3</sub> ~v1.GU <sub>4</sub> )
CDLI:  GA2~a2x3(N57)  PCSL:  GA <sub>2</sub> ~a1x3(N57)	CDLI:  SILA3~bxNI~a  PCSL:  SILA <sub>3</sub> ~c×NI~a

- Ordering of components in compound signs: Names for compound signs have been fixed to reflect the correct ordering of components:

CDLI:  NINDA2x(HI@g~a.1(N06))  PCSL:  NINDA <sub>2</sub> ×(1(N06).HI@g~a)	CDLI:  SIGx1(N57)  PCSL:  1(N57)×SIG
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- Renaming DIŠ to 1(N58) in compound signs: The signs – 1(N57) and | 1(N58) are known in SAC as AŠ and DIŠ, respectively. In CDLI-gh, DIŠ is used only in the names of compound signs and has five occurrences. For these cases, the name DIŠ has been replaced with 1(N58). As a result, the name DIŠ is no longer used in PCSL sign names.

	CDLI:  DUxDISZ  PCSL:  DUx1(N58@t)		CDLI:  (DUBxDISZ)~c  PCSL:  (DUB@n~a×1(N58))~b
	CDLI:  DU6~axDISZ  PCSL:  DU6~a~v1×1(N58)		CDLI:  (DUBxDISZ)~b  PCSL:  DUB@n~b×1(N58)~a
	CDLI:  (DUBxDISZ)~a  PCSL:  (DUB@n~a×1(N58))~a		

- GUDU name changes ...
- Reinterpretation of operator descriptions in compounds : Names for 32 signs whose schematic names suggest a ‘besides’ operation in the group have been renamed to ‘plus’. In the Unicode encoding for SAC, the beside relationship is expressed as PLUS when it occurs within parentheses in a compound. This ensures that |AxBA.DA| — where BA is contained within the A but DA is not—has a distinct name from |Ax(BA.DA)| — where both BA and DA are contained within the A.:

	DUG~bx(KUR~a.X)	DUG-B TIMES KUR-A PLUS X
	DUG~bx(NI~a@g.ZATU779)	DUG-B TIMES NI-A GUNU PLUS ZATU779
	DUG~bx(SI4~a.X)	DUG-B TIMES SI4-A PLUS X
	DUG~bx(ŠE~a.NAM2)	DUG-B TIMES SHE-A PLUS NAM2
	DUG~bx(TAK4~a.SA~a)	DUG-B TIMES TAK4-A PLUS SA-A
	DUG~bx(TAK4~a.SAL)	DUG-B TIMES TAK4-A PLUS SAL
	DUG~bx(ZATU789.SA~a)	DUG-B TIMES ZATU789 PLUS SA-A
	DUG~bx(1(N57).KU3~a)	DUG-B TIMES ONE-N57 PLUS KU3-A
	EZEN~ax(HI×1(N57).AN)	EZEN-A TIMES HI TIMES ONE-N57 PLUS AN
	EZEN~ax(U2~b.A)	EZEN-A TIMES U2-B PLUS A
	GA2~a1×(GIR~a.KU6~a)	GA2-A1 TIMES GIR-A PLUS KU6-A
	GA2~a1×(HI.SUHUR~v1)	GA2-A1 TIMES HI PLUS SUHUR VARIANT 1
	GA2~a1×(KU6~a.KU6~a)	GA2-A1 TIMES KU6-A PLUS KU6-A
	GA2~a2×(ŠE3~v1.GU4)	GA2-A2 TIMES SHE3 VARIANT 1 PLUS GU4
	GAN~cx(HI.DIN)	GAN-C TIMES HI PLUS DIN
	GAN~c~v1×(KUR~a.A)	GAN-C VARIANT 1 TIMES KUR-A PLUS A

	(GIŠx(DIN.DIN))~a	GISH TIMES DIN PLUS DIN FORM A
	(GIŠx(DIN.DIN))~b	GISH TIMES DIN PLUS DIN FORM B
	(GIŠx(DIN.DIN))~c	GISH TIMES DIN PLUS DIN FORM C
	MAR~bx(LAGAB~b.ŠE₃~v1)	MAR-B TIMES LAGAB-B PLUS SHE3 VARIANT 1
	NINDA₂x(AN.HI)	NINDA2 TIMES AN PLUS HI
	NINDA₂x(AN.ME~a)	NINDA2 TIMES AN PLUS ME-A
	NINDA₂x(AN.X)	NINDA2 TIMES AN PLUS X
	NINDA₂x(HI.AN.ME~a)	NINDA2 TIMES HI PLUS AN PLUS ME-A
	NINDA₂x(HI.ME~a)	NINDA2 TIMES HI PLUS ME-A
	NINDA₂x(HI.X)	NINDA2 TIMES HI PLUS X
	NINDA₂x(HI~a₁.AN.ME~a)	NINDA2 TIMES HI-A1 PLUS AN PLUS ME-A
	NINDA₂x(HI~a₁.ME~a)	NINDA2 TIMES HI-A1 PLUS ME-A
	NINDA₂x(U₄.X)	NINDA2 TIMES U4 PLUS X
	NINDA₂x(1(N06).HI@g~a)	NINDA2 TIMES ONE-N6 PLUS HI GUNU-A
	SILA₃~ax(ZATU659.TU~c~v1)	SILA3-A TIMES ZATU659 PLUS TU-C VARIANT 1
	UKKIN~bx(DIN.1(N01))	UKKIN-B TIMES DIN PLUS ONE-N1

### 3.2 New signs added

The following 4 signs have been added to the repertoire; sources have been provided:

	DUG~a@t	Add from W 9168,v = P001077 o ii 4 (Uruk)
	DUG~bxU₂~b	Add from VAT 17858+ = P000015 o ii 9 (Uruk)
	DUG~c₂@t	Add from W 20274,010 = P003508 o ii 2 and r 1 (Uruk)
	UZ~a	Add from LLATU:311_09, with refs (Uruk)

### 3.3 Glyph changes for signs

Glyphs for the following 9 signs have been revised:

	New glyph	Old glyph
(BU~a~v1%BU~a~v1) . NA <sub>2</sub> ~a@n		
EZEN~b×6(N57)		
EZEN~b×6(N57)   ~v1		
HI . SUHUR		
HI . SUHUR~v2		
IŠ~b		
IŠ~b~v1		
KA <sub>2</sub> ~d×LAM~b~v2		
RAD~a		

### 3.4 Inclusion of independent signs for variants

There are 210 signs in CDLI-gh that have one or more variant forms, totalling 280 variant signs. Variants of a sign are classified with the sign and assigned the same name. In PCSL, each variant form has been assigned a distinctive name.

CDLI-gh name	Variants	Variant glyphs	PCSL name
AB~a	1		AB~a
			AB~a~v1
AB2	1		AB <sub>2</sub>
			AB <sub>2</sub> ~v1
AB2×2(N14)	1		AB <sub>2</sub> ×2(N14)
			AB <sub>2</sub> ~v2×2(N14)
ABGAL	1		ABGAL
			ABGAL~v1
AMA~a	1		AMA~a
			AMA~a~v1

CDLI-gh name	Variants	Variant glyphs	PCSL name
AMAR	2	☒	AMAR
		☒	AMAR~v1
		☒	AMAR~v2
AN	2	*	AN
		*	AN~v1
		*	AN~v2
ARARMA2~a	1	☒	ARARMA <sub>2</sub> ~a
		☒	ARARMA <sub>2</sub> ~a~v1
BAHAR2~a	1	≡≡	BAHAR <sub>2</sub> ~a
		≡≡	BAHAR <sub>2</sub> ~a~v1
BAHAR2~b	1	☒☒	BAHAR <sub>2</sub> ~b
		☒☒	BAHAR <sub>2</sub> ~b~v1
BALA~b	1	◇◇	BALA~b
		◇◇	BALA~b~v1
BALAG	1	☞	BALAG
		☞	BALAG~v1
BAN~a	2	↶	BAN~a
		↶	BAN~a~v1
		↶	BAN~a~v2
BARA2~a	1	☒☒	BARA <sub>2</sub> ~a
		☒☒	BARA <sub>2</sub> ~a~v1
BARA2~b	1	☒☒	BARA <sub>2</sub> ~b
		☒☒	BARA <sub>2</sub> ~b~v1
BIR3~a	1	⤒	BIR <sub>3</sub> ~a
		⤒	BIR <sub>3</sub> ~a~v1
BIR3~b	1	⤓	BIR <sub>3</sub> ~b
		⤓	BIR <sub>3</sub> ~b~v1

CDLI-gh name	Variants	Variant glyphs	PCSL name
BU~a	1	☒	BU~a
		☒	BU~a~v1
BU~a+DU6~a	1	☒☒	BU~a+DU <sub>6</sub> ~a
		☒☒	BU~a+DU <sub>6</sub> ~a~v1
(BU~a&BU~a).NA2~a	1	☒☒☒	(BU~a&BU~a).NA <sub>2</sub> ~a
		☒☒☒	(BU~a&BU~a).NA <sub>2</sub> ~a~v1
DARA3~c	1	☒☒	DARA <sub>3</sub> ~c
		☒☒	DARA <sub>3</sub> ~c~v1
DARA3~d×KAR2	2	☒☒☒	DARA <sub>3</sub> ~d×KAR <sub>2</sub> ~b
		☒☒☒	DARA <sub>3</sub> ~d1×KAR <sub>2</sub> ~b
		☒☒☒	DARA <sub>3</sub> ~d2×KAR <sub>2</sub> ~a1
DIB	1	☒	DIB
		☒	DIB~v1
DILMUN	2	☒☒	DILMUN
		☒☒	DILMUN~v1
		☒☒	DILMUN~v2
DU6~a	1	☒	DU <sub>6</sub> ~a
		☒	DU <sub>6</sub> ~a~v1
DU8~b	1	☒	DU <sub>8</sub> ~b
		☒	DU <sub>8</sub> ~b~v1
DU8~c@g	1	☒☒	DU <sub>8</sub> ~c@g
		☒☒	DU <sub>8</sub> ~c@g~v1
DUB~b	4	☒☒☒☒	DUB~b
		☒☒☒☒	DUB~b~v1
		☒☒☒☒	DUB~b~v2
		☒☒☒☒	DUB~b~v3
		☒☒☒☒	DUB~b~v4

CDLI-gh name	Variants	Variant glyphs	PCSL name
DUG~a	2	☒☒ ☒☒ ☒☒	DUG~a DUG~a~v1 DUG~a~v2
DUG~b	1	☒☒ ☒☒	DUG~b DUG~b~v1
DUG~bxDIN	1	☒☒ ☒☒	DUG~bxDIN     DUG~b~v1xDIN
DUG~bxGESZTU~a	1	☒☒ ☒☒	DUG~bxEŠTU~a~v2     DUG~b~v1xGEŠTU~a~v2
DUG~bxHI	1	☒☒ ☒☒	DUG~bxHI     DUG~b~v1xHI
DUG~bxMASZ	1	☒☒ ☒☒	DUG~bxMAŠ     DUG~b~v1xMAŠ
DUG~bxSZE~a	2	☒☒ ☒☒ ☒☒	DUG~bxŠE~a     DUG~b~v1xŠE~a     DUG~b~v1xŠE~a@t
DUG~bxX	1	☒☒ ☒☒	DUG~bxX     DUG~b~v1xX
DUG~bx1(N57)	1	☒☒ ☒☒	DUG~bx1(N57)     DUG~b~v1x1(N57)
DUG~bxU2~b	1	☒☒ ☒☒	DUG~b~v1xU₂~b     DUG~b~v2xU₂~b
DUG~c	1	☒☒ ☒☒	DUG~c~v1 DUG~c~v3
DUG~cx1(N57)	2	☒☒ ☒☒ ☒☒	DUG~c~v1x1(N57)     DUG~c~v2x1(N57)     DUG~c~v3x1(N57)

CDLI-gh name	Variants	Variant glyphs	PCSL name
EN~a	3		EN~a
			EN~a~v1
			EN~a~v2
			EN~a~v3
EN~b	1		EN~b
			EN~b~v1
EN~c	1		EN~c
			EN~c~v1
ENKUM	1		ENKUM
			ENKUM~v1
EZEN~a	1		EZEN~a
			EZEN~a~v1
EZEN~axLA~e	1		EZEN~axLA~e
			EZEN~axLA~e ~v1
EZEN~bx6(N57)	1		EZEN~bx6(N57)
			EZEN~bx6(N57) ~v1
GA~a	4		GA~a
			GA~a~v1
			GA~a~v2
			GA~a~v3
			GA~a~v4
GA~a.ZATU753	1		GA~a~v1.ZATU753
			GA~a~v4.ZATU753 ~v1
GAN~a	1		GAN~a
			GAN~a~v1

CDLI-gh name	Variants	Variant glyphs	PCSL name
GAN~b	3		GAN~b
			GAN~b~v1
			GAN~b~v2
			GAN~b~v3
GAN~c	1		GAN~c
			GAN~c~v1
GESZTU~a	2		GEŠTU~a
			GEŠTU~a~v1
			GEŠTU~a~v2
GESZTU~c3	1		GEŠTU~c3
			GEŠTU~c3~v1
GI	1		GI
			GI~v1
GI6	1		GI <sub>6</sub>
			GI <sub>6</sub> ~v1
GIR~b	1		GIR~b
			GIR~b~v1
GISZGAL	1		GIŠGAL
			GIŠGAL~v1
GISZIMMAR~b1	2		GIŠIMMAR~b1
			GIŠIMMAR~b1~v1
			GIŠIMMAR~b1~v2
GU4	1		GU <sub>4</sub>
			GU <sub>4</sub> ~v1
GU7	1		GU <sub>7</sub>
			GU <sub>7</sub> ~v1
GUG2	1		GUG <sub>2</sub>
			GUG <sub>2</sub> ~v1

CDLI-gh name	Variants	Variant glyphs	PCSL name
GUM~b	1	☒	GUM~b
		☒	GUM~b~v1
GUM~b@n	1	☒	GUM~b@n
		☒	GUM~b@n~v1
GURUSZ~a	1	☒	GURUŠ~a
		☒	GURUŠ~a~v1
HI.SUHUR	2	❖❖	HI.SUHUR
		❖❖	HI.SUHUR~v1
		❖❖	HI.SUHUR~v2
IDIGNA	1	≡≡≡	IDIGNA
		≡≡≡	IDIGNA~v1
IN~b	1	≡≡	IN~b
		≡≡	IN~b~v1
IR11	1	—□≡	IR <sub>11</sub>
		—□≡	IR <sub>11</sub> ~v1
ISZ~a	1	≡≡	IŠ~a
		≡≡	IŠ~a~v1
ISZ~b	5	≡○	IŠ~b
		≡○	IŠ~b~v1
		≡○	IŠ~b~v2
		≡○	IŠ~b~v3
		≡○	IŠ~b~v4
		≡○	IŠ~b~v5
KA~a.SZE~a	1	○○	KA~a~v1.ŠE~a
		○○	KA~a~v2.ŠE~a@t
KAL~b1	1	⇒	KAL~b1
		⇒	KAL~b1~v1

CDLI-gh name	Variants	Variant glyphs	PCSL name
KASZ~a	1		KAŠ~a
			KAŠ~a~v1
KASZ~b	1		KAŠ~b
			KAŠ~b~v1
KINGAL	1		KINGAL
			KINGAL~v1
KISIM~b	3		KISIM~b
			KISIM~b~v1
			KISIM~b~v2
			KISIM~b~v3
KISZ	1		KIŠ
			KIŠ~v1
KITI	1		KITI
			KITI~v1
KUR~c	1		KUR~c
			KUR~c~v1
LAM~b	2		LAM~b
			LAM~b~v1
			LAM~b~v2
LI	1		LI
			LI~v1
LU2	2		LU₂
			LU₂~v1
			LU₂~v2
LUGAL	1		LUGAL
			LUGAL~v1
MA	1		MA
			MA~v1

CDLI-gh name	Variants	Variant glyphs	PCSL name
MAR~a	1	□---	MAR~a
		□---	MAR~a~v1
MEN~a	1	☒	MEN~a
		☒	MEN~a~v1
MES	1	☒	MES
		☒	MES~v1
MUD	1	↳↑	MUD
		↳↓	MUD~v1
MUSZ3~a	2	↶	MUŠ <sub>3</sub> ~a
		↶	MUŠ <sub>3</sub> ~a~v1
		↶	MUŠ <sub>3</sub> ~a~v2
MUSZ3~a@g	1	↶↑	MUŠ <sub>3</sub> ~a@g
		↶↑	MUŠ <sub>3</sub> ~a@g~v1
NA2~a	1	⤒	NA <sub>2</sub> ~a
		⤒	NA <sub>2</sub> ~a~v1
NAB	2	*	NAB
		*	NAB~v1
		**	NAB~v2
NAGAR~a	3	◇○	NAGAR~a
		◇○↖	NAGAR~a~v1
		◇↖	NAGAR~a~v2
		◇↖↖	NAGAR~a~v3
NAGAR~b	1	▷↖	NAGAR~b
		▷↖	NAGAR~b~v1
NAMESDA	1	▷=□	NAMEŠDA
		▷=□	NAMEŠDA~v1
NANNA~a	1	⤓⤔	NANNA~a
		⤓⤔	NANNA~a~v1

CDLI-gh name	Variants	Variant glyphs	PCSL name
NE~a	2	☒	NE~a
		☒=	NE~a~v1
		☒○	NE~a~v2
NESAG2~a	1	☒	NESAG <sub>2</sub> ~a
		☒☒	NESAG <sub>2</sub> ~a1
NESAG2~b	1	☒	NESAG <sub>2</sub> ~b
		☒☒	NESAG <sub>2</sub> ~b~v1
NIMGIR	1	☒☒	NIMGIR
		☒☒☒	NIMGIR~v1
NINDA2	1	⤒	NINDA <sub>2</sub>
		⤒⤒	NINDA <sub>2</sub> ~v1
NINDA2xGUDU4	3	⤒⤒⤒⤒	NINDA <sub>2</sub> xGUDU <sub>4</sub>  ~v2
		⤒⤒⤒⤒⤒	NINDA <sub>2</sub> xGUDU <sub>4</sub>  ~v3
		⤒⤒⤒⤒⤒⤒	NINDA <sub>2</sub> ×(HI~a1.AN.ME~a)
		⤒⤒⤒⤒⤒⤒⤒	NINDA <sub>2</sub> ×(HI~a1.ME~a)
NUN~c	3	⤓⤓	NUN~c
		⤓⤓⤓	NUN~c~v1
		⤓⤓⤓⤓	NUN~c~v2
		⤓⤓⤓⤓⤓	NUN~c~v3
NUNUZ~c	3	◊	NUNUZ~c
		◊◊	NUNUZ~c~v1
		◊◊◊	NUNUZ~c~v2
		◊◊◊◊	NUNUZ~c~v3
PA~a	2	⤔	PA~a
		⤔⤔	PA~a~v1
		⤔⤔⤔	PA~a~v2
PAP~b	1	⤕	PAP~b
		⤕⤕	PAP~b~v1

CDLI-gh name	Variants	Variant glyphs	PCSL name
RU	1	☒	RU
		☒	RU~v1
SA~c	1	☒☒	SA~c
		☒☒	SA~c~v1
SAG	2	☒	SAG
		☒	SAG~v1
		☒	SAG~v2
SAGxGESZTU~b	1	☒☒	SAG@n×GEŠTU~b
		☒☒	SAG~v2×GEŠTU~b
SANGA~a	2	☒☒	SANGA~a
		☒☒	SANGA~a~v1
		☒☒☒	SANGA~a~v2
SANGA~b	1	☒☒	SANGA~b
		☒☒	SANGA~b~v1
SI	1	☒☒	SI
		☒☒	SI~v1
SI4~d	1	☒☒	SI <sub>4</sub> ~d
		☒☒	SI <sub>4</sub> ~d~v1
SI4~f	1	☒☒	SI <sub>4</sub> ~f
		☒☒	SI <sub>4</sub> ~f~v1
SIG2~a3	2	☒☒	SIG <sub>2</sub> ~a3
		☒☒	SIG <sub>2</sub> ~a3~v1
		☒☒☒	SIG <sub>2</sub> ~a3~v2
SIG2~d2	1	☒☒	SIG <sub>2</sub> ~d2
		☒☒	SIG <sub>2</sub> ~d2~v1
SIG7	1	☒☒	SIG <sub>7</sub>
		☒☒☒	SIG <sub>7</sub> ~v1

CDLI-gh name	Variants	Variant glyphs	PCSL name
SILA3~axDUG~a	1	☒☒☒	SILA <sub>3</sub> ~axDUG~a ~v1
		☒☒●	SILA <sub>3</sub> ~a~v1xDUG~a
SIMUG	1	☒☒☒	SIMUG
		☒☒●	SIMUG~v1
SU~a	1	☒	SU~a
		☒	SU~a~v1
SUKUD@g~b	1	☒☒	SUKUD@g~b
		☒☒	SUKUD@g~b~v1
SUM~a	1	☒☒☒☒	SUM~a
		☒☒☒☒	SUM~a~v1
SZA	2	☒☒☒	ŠA
		☒☒●	ŠA~v1
		☒☒●	ŠA~v2
SZAB~a	1	☒☒	ŠAB~a
		☒☒	ŠAB~a~v1
SZAB~b	1	☒☒	ŠAB~b
		☒☒	ŠAB~b~v1
SZAGAN	1	☒☒	ŠAGAN
		☒☒	ŠAGAN~v1
SZE~a.NAM2	1	☒☒☒☒	ŠE~a.NAM <sub>2</sub>
		☒☒☒☒	ŠE~a.NAM <sub>2</sub>  ~v1
SZE3	1	☒☒	ŠE <sub>3</sub>
		☒☒	ŠE <sub>3</sub> ~v1
SZE3@t	1	☒☒	ŠE <sub>3</sub> @t
		☒☒	ŠE <sub>3</sub> ~v1@t
SZEN~a	1	☒☒☒☒	ŠEN~a
		☒☒☒☒	ŠEN~a~v1

CDLI-gh name	Variants	Variant glyphs	PCSL name
SZEN~b	1	☒	ŠEN~b
		☒	ŠEN~b~v1
SZEN~d	2	☒☒	ŠEN~d
		☒☒	ŠEN~d~v1
		☒☒	ŠEN~d~v2
Szesz~a	1	☱	ŠEŠ~a
		☱	ŠEŠ~a~v1
SZIM~a	2	☒☒	ŠIM~a
		☒☒	ŠIM~a~v1
		☒☒	ŠIM~a~v2
SZIR~a	1	❖	ŠIR~a
		❖	ŠIR~a~v1
SZIR~b	2	❖	ŠIR~b
		❖	ŠIR~b~v1
		❖	ŠIR~b~v2
SZITA@g~a	1	☒	ŠITA~b1@g
		☒	ŠITA~b3@g
Szu2	1	⟨	ŠU <sub>2</sub> ~a
		⟨	ŠU <sub>2</sub> ~b
Szu2.EN~a	1	⟨☒☒	ŠU <sub>2</sub> ~a.EN~a~v1
		⟨☒☒	ŠU <sub>2</sub> ~a.EN~a~v2
SZURUPPAK~a	1	ϙ	ŠURUPPAK~a
		ϙ	ŠURUPPAK~a~v1
SZURUPPAK~b	1	ϙ	ŠURUPPAK~b
		ϙ	ŠURUPPAK~b~v1
TAK4~a	1	ϙ	TAK <sub>4</sub> ~a
		ϙ	TAK <sub>4</sub> ~a~v1

CDLI-gh name	Variants	Variant glyphs	PCSL name
TI	1	←←	TI
		↖↖	TI~v1
TUG2~a@g	1	➲	TUG₂~a@g
		➲	TUG₂~a@g~v1
TUR	3	⌚⌚⌚	TUR
		⌚⌚⌚	TUR~v1
		⌚⌚⌚	TUR~v2
		⌚⌚⌚	TUR~v3
U2~b	2	#+#+#+#+	U₂~b
		#+#+#+#+	U₂~b~v1
		#+#+#+#+	U₂~b~v2
U8	3	⊕⊕⊕⊕⊕⊕⊕⊕	U₈
		⊕⊕⊕⊕⊕⊕⊕⊕	U₈~v1
		⊕⊕⊕⊕⊕⊕⊕⊕	U₈~v2
		⊕⊕⊕⊕⊕⊕⊕⊕	U₈~v3
UBI~c	1	国际在线	UBI~c
		国际在线	UBI~c~v1
UD5~a	2	⊕⊕⊕⊕⊕	UD₅~a
		⊕⊕⊕⊕⊕	UD₅~a~v1
		⊕⊕⊕⊕⊕	UD₅~a~v2
UKKIN~a	1	国际在线	UKKIN~a
		国际在线	UKKIN~a~v1
UKKIN~b	1	国际在线	UKKIN~b
		国际在线	UKKIN~b~v1
UMUN2	1	≡≡≡≡≡≡≡≡	UMUN₂
		≡≡≡≡≡≡≡≡	UMUN₂~v1
UNUG~a	1	≡≡≡≡≡≡≡≡	UNUG~a
		≡≡≡≡≡≡≡≡	UNUG~a~v1

CDLI-gh name	Variants	Variant glyphs	PCSL name
UR3~a1	1	𒃩	UR <sub>3</sub> ~a1
		𒃩	UR <sub>3</sub> ~a1~v1
URI3~a	1	𒃪	URI <sub>3</sub> ~a
		𒃪	URI <sub>3</sub> ~a~v1
URUDU~a	2	𒃪	URUDU~a
		𒃪	URUDU~a~v1
		𒃪	URUDU~a~v2
USZ~b	1	𒃪	UŠ~b
		𒃪	UŠ~b~v1
USZ~bxTAR~c	1	𒃪	UŠ~b×TAR~c
		𒃪	UŠ~b~v2×TAR~c
UTUA~b	1	𒃪	UTUA~b
		𒃪	UTUA~b~v1
ZAG~a	1	𒃪	ZAG~a
		𒃪	ZAG~a~v1
ZATU623	2	𒃪	ZATU623
		𒃪	ZATU623~v1
		𒃪	ZATU623~v2
ZATU625	1	𒃪	ZATU625
		𒃪	ZATU625~v1
ZATU628~a	1	𒃪	ZATU628~a
		𒃪	ZATU628~a~v1
ZATU629	1	𒃪	ZATU629
		𒃪	ZATU629~v1
ZATU632~a	1	𒃪	ZATU632~a
		𒃪	ZATU632~a~v1
ZATU636	1	𒃪	ZATU636
		𒃪	ZATU636~v1

CDLI-gh name	Variants	Variant glyphs	PCSL name
ZATU647	1	◁	ZATU647
		△	ZATU647~v1
ZATU649	1	▷	ZATU649
		◁	ZATU649~v1
ZATU651	2	□	ZATU651
		□	ZATU651~v1
		◀	ZATU651~v2
ZATU662	3	◀	ZATU662
		◀	ZATU662~v1
		◀	ZATU662~v2
		◀	ZATU662~v3
ZATU662x1(N14)	2	◀	ZATU662x1(N14)
		◀	ZATU662~v1x1(N14)
		◀	ZATU662~v2x1(N14)
ZATU675~b	1	☒	ZATU675~b
		☒	ZATU675~b~v1
ZATU680~b	1	○	ZATU680~b
		○	ZATU680~b~v1
ZATU693	2	ꝑ	ZATU693
		ꝑ	ZATU693~v1
		ꝑ	ZATU693~v2
ZATU694~c	1	ꝑ	ZATU694~c
		ꝑ	ZATU694~c~v1
ZATU697~a	3	○	ZATU697~a
		○	ZATU697~a~v1
		○	ZATU697~a~v2
		○	ZATU697~a~v3

CDLI-gh name	Variants	Variant glyphs	PCSL name
ZATU710	1	𒃩	ZATU710
		𒃪	ZATU710~v1
ZATU711	1	𒃨	ZATU711
		𒃧	ZATU711~v1
ZATU725	1	𒃩	ZATU725
		𒃪	ZATU725~v1
ZATU729	1	𒃩	ZATU729
		𒃪	ZATU729~v1
ZATU735~b	2	𒃩	ZATU735~b
		𒃪	ZATU735~b~v1
		𒃧	ZATU735~b~v2
ZATU737	2	𒃩	ZATU737
		𒃪	ZATU737~v1
		𒃧	ZATU737~v2
ZATU737xDI	1	𒃩	ZATU737xDI
		𒃪	ZATU737~v2xDI
ZATU737xGAR	1	𒃩	ZATU737xGAR
		𒃪	ZATU737~v1xGAR
ZATU749~a	2	𒃩	ZATU749~a
		𒃪	ZATU749~a~v1
		𒃧	ZATU749~a~v2
ZATU750	3	𒃩	ZATU750
		𒃪	ZATU750~v1
		𒃧	ZATU750~v2
		𒃩	ZATU750~v3
ZATU752	1	𒃩	ZATU752
		𒃪	ZATU752~v1

CDLI-gh name	Variants	Variant glyphs	PCSL name
ZATU756	1	𒂔	ZATU756
		𒂔	ZATU756~v1
ZATU757	1	𒂔	ZATU757
		𒂔	ZATU757~v1
ZATU759	1	𒂔	ZATU759
		𒂔	ZATU759~v1
ZATU762~a	2	□	ZATU762~a
		□	ZATU762~a~v1
		□	ZATU762~a~v2
ZATU773~a	1	▷◦	ZATU773~a
		▷◦	ZATU773~a~v1
ZATU776	1	☱	ZATU776
		☱	ZATU776~v1
ZATU777	2	#+#+	ZATU777
		#+#+	ZATU777~v1
		#+#+	ZATU777~v2
ZATU839	1	▷◀◀	ZATU839
		▷◀◀	ZATU839~v1
ZI~a	1	▷➡➡	ZI~a
		▷➡➡	ZI~a~v1
1(N57).SZUBUR	1	➔	1(N57).ŠUBUR
		➔	1(N57).ŠUBUR~v1
1(N58).BAD~b	1	⤵	1(N58)~a.BAD
		⤵	1(N58)~a.BAD~a
9(N01)	1	ܶܶܶ	9(N01)
		ܶܶܶ	9(N01)~v1
5(N14)	1	ܶܶ	5(N14)
		ܶܶ	5(N14)~v1

CDLI-gh name	Variants	Variant glyphs	PCSL name
6(N14)	1	☒	6(N14)
		☒☒	6(N14)~v1
9(N18)	1	☒☒☒	9(N18)
		☒☒☒☒	9(N18)~v1
9(N19)	1	☒☒☒☒☒	9(N19)
		☒☒☒☒☒☒	9(N19)~v1
1(N26)	1	☒☒☒☒☒☒☒	1(N26)
		☒☒☒☒☒☒☒☒	1(N26)~v1
1(N27)	1	☒☒☒☒☒☒☒☒☒	1(N27)
		☒☒☒☒☒☒☒☒☒☒	1(N27)~v1
1(N29~a)	1	☒☒☒☒☒☒☒☒☒☒☒	1(N29~a)
		☒☒☒☒☒☒☒☒☒☒☒☒	1(N29~a)~v1
1(N30~a)	1	☒☒☒☒☒☒☒☒☒☒☒☒☒	1(N30~a)
		☒☒☒☒☒☒☒☒☒☒☒☒☒☒	1(N30~a)~v1
6(N57)	1	≡≡	6(N57)
		≡≡≡	6(N57)~v1

## 4 Revised CDLI-gh / PCSL Repetoire

The following table shows all 2379 in the revised CDLI-gh / PCSL repertoire, along with PCSL and CDLI transliterations; UCS (Unicode) names for proposed characters; the status of non-proposed characters; annotations about sign name revisions, variants, and other details.

	PCSL: A CDLI: A UCS: ॥ PROTO-CUNEIFORM SIGN A	0
	PCSL:  AxAB <sub>2</sub>   CDLI:  AxAB2  UCS: 𒂵 PROTO-CUNEIFORM SIGN A TIMES AB2	1
	PCSL:  AxAÑ  CDLI:  AxAN  Unicode status: not proposed due to chronological scope	2
	PCSL:  AxEÑ~a~v2  CDLI:  AxEN~a  UCS: 𒂵 PROTO-CUNEIFORM SIGN A TIMES EN-A VARIANT 2	3
	PCSL:  AxŠUBUR  CDLI:  AxSZUBUR  UCS: 𒂵 PROTO-CUNEIFORM SIGN A TIMES SHUBUR	4
	PCSL:  AxZATU672  CDLI:  AxZATU672  UCS: 𒂵 PROTO-CUNEIFORM SIGN A TIMES ZATU672	5
	PCSL:  Ax1(N14)  CDLI:  Ax1(N14)  UCS: 𒂵 PROTO-CUNEIFORM SIGN A TIMES ONE-N14	6
	PCSL: A@g CDLI: A@g Unicode status: not proposed due to chronological scope	7
	PCSL: A@t CDLI: A@t UCS: ܍ PROTO-CUNEIFORM SIGN A TENU	8

	PCSL: A <sub>2</sub> CDLI: A2 UCS: 𒂗 PROTO-CUNEIFORM SIGN A2	9
	PCSL: AB~a CDLI: AB~a UCS: 𒂗 PROTO-CUNEIFORM SIGN AB-A	10
	PCSL:  AB~axA@t  CDLI:  AB~axA@t  UCS: 𒂗= PROTO-CUNEIFORM SIGN AB-A TIMES A TENU	11
	PCSL:  AB~axAŠ₂  CDLI:  AB~axASZ2  UCS: 𒂗 PROTO-CUNEIFORM SIGN AB-A TIMES ASH2	12
	PCSL:  AB~axKU₆~a  CDLI:  AB~axKU6~a  UCS: 𒂗 PROTO-CUNEIFORM SIGN AB-A TIMES KU6-A	13
	PCSL:  AB~axSUKKAL  CDLI:  AB~axSUKKAL  UCS: 𒂗 PROTO-CUNEIFORM SIGN AB-A TIMES SUKKAL	14
	PCSL:  AB~ax(ŠE~a&ŠE~a)  CDLI:  AB~ax(SZE~a&SZE~a)  UCS: 𒂗 PROTO-CUNEIFORM SIGN AB-A TIMES SHE-A OVER SHE-A	15
	PCSL:  AB~axX  CDLI:  AB~axX  UCS: 𒂗 PROTO-CUNEIFORM SIGN AB-A TIMES X • Has a fragmentary or missing portion	16
	PCSL:  AB~axZATU659  CDLI:  AB~axZATU659  UCS: 𒂗 PROTO-CUNEIFORM SIGN AB-A TIMES ZATU659	17
	PCSL:  AB~ax1(N01)  CDLI:  AB~ax1(N01)  UCS: 𒂗 PROTO-CUNEIFORM SIGN AB-A TIMES ONE-N1	18
	PCSL: AB~a@g CDLI: AB~a@g UCS: 𒂗 PROTO-CUNEIFORM SIGN AB-A GUNU	19

	PCSL: AB~a~v1 CDLI: AB~a UCS: ☰ PROTO-CUNEIFORM SIGN AB-A VARIANT 1 • Variant of ☰ AB~a	20
	PCSL: AB~b CDLI: AB~b UCS: ☱ PROTO-CUNEIFORM SIGN AB-B	21
	PCSL:  AB~bxA  CDLI:  AB~bxA  UCS: ☲ PROTO-CUNEIFORM SIGN AB-B TIMES A	22
	PCSL:  AB~bxKU <sub>6</sub> ~a  CDLI:  AB~bxKU6~a  UCS: ☳ PROTO-CUNEIFORM SIGN AB-B TIMES KU6-A	23
	PCSL:  AB~bxŠA <sub>3</sub> ~a1  CDLI:  AB~bxSZA3~a1  UCS: ☴ PROTO-CUNEIFORM SIGN AB-B TIMES SHA3-A1	24
	PCSL: AB <sub>2</sub> CDLI: AB2 UCS: ☵ PROTO-CUNEIFORM SIGN AB2	25
	PCSL:  AB <sub>2</sub> ×2(N14)  CDLI:  AB2x2(N14)  UCS: ☶ PROTO-CUNEIFORM SIGN AB2 TIMES TWO-N14	26
	PCSL: AB <sub>2</sub> ~v1 CDLI: AB2 UCS: ☷ PROTO-CUNEIFORM SIGN AB2 VARIANT 1 • Variant of ☵ AB <sub>2</sub>	27
	PCSL:  AB <sub>2</sub> ~v2×2(N14)  CDLI:  AB2x2(N14)  UCS: ☸ PROTO-CUNEIFORM SIGN AB2 VARIANT 2 TIMES TWO-N14 • Variant of ☷  AB <sub>2</sub> ×2(N14)  • Has a compound-only sign: ☹ AB <sub>2</sub> ~v2	28
	PCSL: ABGAL CDLI: ABGAL UCS: ☻ PROTO-CUNEIFORM SIGN ABGAL	29

	PCSL: ABGAL~v1 CDLI: ABGAL UCS: 𒂗  PROTOKUNEFIRN SIGN ABGAL VARIANT 1 • Variant of 𒂗  ABGAL	30
	PCSL: ABRIG CDLI: ABRIG UCS: 𒀭  PROTOKUNEFIRN SIGN ABRIG	31
	PCSL: ABZU CDLI: ABZU UCS: 𒀭  PROTOKUNEFIRN SIGN ABZU	32
	PCSL: AD~a CDLI: AD~a UCS: 𒀭  PROTOKUNEFIRN SIGN AD-A	33
	PCSL: AD~b CDLI: AD~b UCS: 𒀭  PROTOKUNEFIRN SIGN AD-B	34
	PCSL: AD~c CDLI: AD~c UCS: 𒀭  PROTOKUNEFIRN SIGN AD-C	35
	PCSL: ADAB CDLI: ADAB UCS: 𒀭  PROTOKUNEFIRN SIGN ADAB	36
	PCSL: ADDA CDLI: ADDA UCS: 𒀭  PROTOKUNEFIRN SIGN ADDA	37
	PCSL: ADDA@t CDLI: ADDA@t-2 UCS: 𒀭  PROTOKUNEFIRN SIGN ADDA TENU	38
	PCSL: AGAR <sub>2</sub> CDLI: AGAR2 UCS: 𒀭  PROTOKUNEFIRN SIGN AGAR2	39

	PCSL: AK~a CDLI: AK~a UCS:  PROTO-CUNEIFORM SIGN AK-A	40
	PCSL: AK~b CDLI: AK~b UCS:  PROTO-CUNEIFORM SIGN AK-B	41
	PCSL: AL CDLI: AL UCS:  PROTO-CUNEIFORM SIGN AL	42
	PCSL: ALAN~a CDLI: ALAN~a UCS:  PROTO-CUNEIFORM SIGN ALAN-A	43
	PCSL: ALAN~b CDLI: ALAN~b UCS:  PROTO-CUNEIFORM SIGN ALAN-B	44
	PCSL: ALAN~c CDLI: ALAN~c UCS:  PROTO-CUNEIFORM SIGN ALAN-C	45
	PCSL: ALAN~d CDLI: ALAN~d UCS:  PROTO-CUNEIFORM SIGN ALAN-D	46
	PCSL: ALAN~e CDLI: ALAN~e UCS:  PROTO-CUNEIFORM SIGN ALAN-E	47
	PCSL: ALAN~f CDLI: ALAN~f Unicode status: not proposed due to chronological scope	48
	PCSL: ALIM CDLI: ALIM UCS:  PROTO-CUNEIFORM SIGN ALIM	49
	PCSL: AM~a CDLI: AM~a UCS:  PROTO-CUNEIFORM SIGN AM-A	50

	PCSL: AM~b CDLI: AM~b UCS: >> PROTO-CUNEIFORM SIGN AM-B	51
	PCSL: AMA~a CDLI: AMA~a UCS: <* PROTO-CUNEIFORM SIGN AMA-A	52
	PCSL:  AMA~axE2~a  CDLI:  AMA~axE2~a  UCS: <■ PROTO-CUNEIFORM SIGN AMA-A TIMES E2-A	53
	PCSL: AMA~a~v1 CDLI: AMA~a UCS: <□ PROTO-CUNEIFORM SIGN AMA-A VARIANT 1 • Variant of <* AMA~a	54
	PCSL: AMA~b CDLI: AMA~b UCS: <* PROTO-CUNEIFORM SIGN AMA-B	55
	PCSL: AMAR CDLI: AMAR UCS: > PROTO-CUNEIFORM SIGN AMAR	56
	PCSL:  AMAR.1(N02)  CDLI:  AMAR.1(N02)  UCS: >> PROTO-CUNEIFORM SIGN AMAR BESIDE ONE-N2	57
	PCSL:  AMAR&AMAR  CDLI:  AMAR&AMAR  UCS: >> PROTO-CUNEIFORM SIGN AMAR OVER AMAR	58
	PCSL: AMAR@g CDLI: AMAR@g UCS: =>> PROTO-CUNEIFORM SIGN AMAR GUNU	59
	PCSL: AMAR~v1 CDLI: AMAR UCS: > PROTO-CUNEIFORM SIGN AMAR VARIANT 1 • Variant of > AMAR	60

	PCSL: AMAR~v2 CDLI: AMAR UCS: ☽ PROTO-CUNEIFORM SIGN AMAR VARIANT 2 • Variant of ☾ AMAR	61
	PCSL:  AMAR~v2xTAR~c  CDLI:  AMARxTAR  UCS: ☽ PROTO-CUNEIFORM SIGN AMAR VARIANT 2 TIMES TAR-C • Has a compound-only sign: ☽ TAR~c	62
	PCSL: AN CDLI: AN UCS: * PROTO-CUNEIFORM SIGN AN • Unifies * AN~v1	63
	PCSL: AN~v1 CDLI: AN Unicode status: not proposed: unified with * AN • Variant of * AN	64
	PCSL: AN~v2 CDLI: AN UCS: * PROTO-CUNEIFORM SIGN AN VARIANT 2 • Variant of * AN	65
	PCSL: ANŠE~a CDLI: ANSZE~a UCS: ☽ PROTO-CUNEIFORM SIGN ANSHE-A	66
	PCSL: ANŠE~b CDLI: ANSZE~b UCS: ☽ PROTO-CUNEIFORM SIGN ANSHE-B	67
	PCSL: ANŠE~c CDLI: ANSZE~c UCS: ☽ PROTO-CUNEIFORM SIGN ANSHE-C	68
	PCSL: ANŠE~e CDLI: ANSZE~e UCS: ☽ PROTO-CUNEIFORM SIGN ANSHE-E	69
	PCSL: ANZU <sub>2</sub> CDLI: ANZU2 Unicode status: not proposed due to chronological scope	70

	PCSL: APIN~a CDLI: APIN~a UCS: 𒂗 PROTO-CUNEIFORM SIGN APIN-A	71
	PCSL:  APIN~a.APIN~a  CDLI:  APIN~a.APIN~a  UCS: 𒂗 𒂗 PROTO-CUNEIFORM SIGN APIN-A BESIDE APIN-A	72
	PCSL: APIN~b CDLI: APIN~b UCS: 𒂗 PROTO-CUNEIFORM SIGN APIN-B	73
	PCSL: APIN~c CDLI: APIN~c UCS: 𒂗 PROTO-CUNEIFORM SIGN APIN-C	74
	PCSL: ARARMA <sub>2</sub> ~a CDLI: ARARMA2~a UCS: 𒀭 PROTO-CUNEIFORM SIGN ARARMA2-A	75
	PCSL: ARARMA <sub>2</sub> ~a~v1 CDLI: ARARMA2~a UCS: 𒀭 PROTO-CUNEIFORM SIGN ARARMA2-A VARIANT 1 • Variant of 𒀭 ARARMA <sub>2</sub> ~a	76
	PCSL: ARARMA <sub>2</sub> ~b CDLI: ARARMA2~b UCS: 𒀭 PROTO-CUNEIFORM SIGN ARARMA2-B	77
	PCSL: ARATTA CDLI: ARATTA UCS: 𒀭 PROTO-CUNEIFORM SIGN ARATTA	78
	PCSL: ASAL <sub>2</sub> CDLI: ASAL2 Unicode status: not proposed due to chronological scope	79
	PCSL: ASAR CDLI: ASAR UCS: 𒀭 PROTO-CUNEIFORM SIGN ASAR	80

	PCSL: AŠ₂ CDLI: ASZ2 UCS: 𒂗 PROTO-CUNEIFORM SIGN ASH2	81
	PCSL: AZ CDLI: AZ UCS: 𒂈 PROTO-CUNEIFORM SIGN AZ	82
	PCSL: AZU CDLI: AZU UCS: 𒂉 PROTO-CUNEIFORM SIGN AZU	83
	PCSL: BA CDLI: BA UCS: 𒁀 PROTO-CUNEIFORM SIGN BA	84
	PCSL: BAD CDLI: BAD UCS: 𒁁 PROTO-CUNEIFORM SIGN BAD	85
	PCSL:  BAD&BAD  CDLI:  BAD&BAD  UCS: 𒀭 PROTO-CUNEIFORM SIGN BAD OVER BAD	86
	PCSL: BAD₃~a CDLI: BAD3~a UCS: 𒀭 PROTO-CUNEIFORM SIGN BAD3-A	87
	PCSL: BAD₃~b1 CDLI: BAD3~b1 UCS: 𒀭 PROTO-CUNEIFORM SIGN BAD3-B1	88
	PCSL: BAD₃~b2 CDLI: BAD3~b2 UCS: 𒀭 PROTO-CUNEIFORM SIGN BAD3-B2	89
	PCSL: BAHAR₂~a CDLI: BAHAR2~a UCS: 𒀭 PROTO-CUNEIFORM SIGN BAHAR2-A	90
	PCSL: BAHAR₂~a~v1 CDLI: BAHAR2~a UCS: 𒀭 PROTO-CUNEIFORM SIGN BAHAR2-A VARIANT 1 • Variant of 𒀭 BAHAR₂~a	91

	PCSL: BAHAR <sub>2</sub> ~b CDLI: BAHAR2~b UCS: 𒂔 PROTO-CUNEIFORM SIGN BAHAR2-B	92
	PCSL: BAHAR <sub>2</sub> ~b~v1 CDLI: BAHAR2~b UCS: 𒂔  PROTOSIGN BAHAR2-B VARIANT 1 • Variant of 𒂔 BAHAR <sub>2</sub> ~b	93
	PCSL: BAHAR <sub>2</sub> ~c CDLI: BAHAR2~c UCS: 𒂔  PROTOSIGN BAHAR2-C	94
	PCSL: BALA~a CDLI: BALA~a UCS: 𒁳  PROTOSIGN BALA-A	95
	PCSL: BALA~b CDLI: BALA~b UCS: 𒁳  PROTOSIGN BALA-B	96
	PCSL: BALA~b~v1 CDLI: BALA~b UCS: 𒁳  PROTOSIGN BALA-B VARIANT 1 • Variant of 𒁳 BALA~b	97
	PCSL: BALAG CDLI: BALAG UCS: 𒁹  PROTOSIGN BALAG	98
	PCSL: BALAG~v1 CDLI: BALAG UCS: 𒁹  PROTOSIGN BALAG VARIANT 1 • Variant of 𒁹 BALAG	99
	PCSL: BAN~a CDLI: BAN~a UCS: 𒁶  PROTOSIGN BAN-A	100
	PCSL: BAN~a~v1 CDLI: BAN~a UCS: 𒁶  PROTOSIGN BAN-A VARIANT 1 • Variant of 𒁶 BAN~a	101

	PCSL: BAN~a~v2 CDLI: BAN~a UCS: ⠀ PROTO-CUNEIFORM SIGN BAN-A VARIANT 2 • Variant of ⠠ BAN~a	102
	PCSL: BAN~b CDLI: BAN~b UCS: ⠀ PROTO-CUNEIFORM SIGN BAN-B	103
	PCSL: BANŠUR~a CDLI: BANSZUR~a UCS: ⠀ PROTO-CUNEIFORM SIGN BANSHUR-A	104
	PCSL: BANŠUR~a@t CDLI: BANSZUR~a@t UCS: ⠀ PROTO-CUNEIFORM SIGN BANSHUR-A TENU	105
	PCSL: BANŠUR~b1 CDLI: BANSZUR~b1 UCS: ⠀ PROTO-CUNEIFORM SIGN BANSHUR-B1	106
	PCSL: BANŠUR~b2 CDLI: BANSZUR~b2 UCS: ⠀ PROTO-CUNEIFORM SIGN BANSHUR-B2	107
	PCSL: BANŠUR~c CDLI: BANSZUR~c UCS: ⠀ PROTO-CUNEIFORM SIGN BANSHUR-C	108
	PCSL: BAPPIR~a CDLI: BAPPIR~a UCS: ⠀ PROTO-CUNEIFORM SIGN BAPPIR-A	109
	PCSL: BAPPIR~b CDLI: BAPPIR~b UCS: ⠀ PROTO-CUNEIFORM SIGN BAPPIR-B	110
	PCSL: BAPPIR~c CDLI: BAPPIR~c UCS: ⠀ PROTO-CUNEIFORM SIGN BAPPIR-C	111
	PCSL: BAPPIR~d CDLI: BAPPIR~d UCS: ⠀ PROTO-CUNEIFORM SIGN BAPPIR-D	112

	PCSL: BAPPIR~e CDLI: BAPPIR~e UCS: PROTO-CUNEIFORM SIGN BAPPIR-E	113
	PCSL: BAPPIR~f CDLI: BAPPIR~f UCS: PROTO-CUNEIFORM SIGN BAPPIR-F	114
	PCSL: BAR CDLI: BAR UCS: PROTO-CUNEIFORM SIGN BAR	115
	PCSL: BARA <sub>2</sub> ~a CDLI: BARA2~a UCS: PROTO-CUNEIFORM SIGN BARA2-A	116
	PCSL: BARA <sub>2</sub> ~a~v1 CDLI: BARA2~a UCS: PROTO-CUNEIFORM SIGN BARA2-A VARIANT 1 • Variant of  BARA <sub>2</sub> ~a	117
	PCSL: BARA <sub>2</sub> ~b CDLI: BARA2~b UCS: PROTO-CUNEIFORM SIGN BARA2-B	118
	PCSL: BARA <sub>2</sub> ~b~v1 CDLI: BARA2~b UCS: PROTO-CUNEIFORM SIGN BARA2-B VARIANT 1 • Variant of  BARA <sub>2</sub> ~b	119
	PCSL: BARA <sub>3</sub> CDLI: BARA3 UCS: PROTO-CUNEIFORM SIGN BARA3	120
	PCSL: BAU405 CDLI: UET2_405 Unicode status: not proposed due to chronological scope	121
	PCSL: BIR~a CDLI: BIR~a UCS: PROTO-CUNEIFORM SIGN BIR-A	122
	PCSL: BIR~b CDLI: BIR~b UCS: PROTO-CUNEIFORM SIGN BIR-B	123

	PCSL: BIR~c CDLI: BIR~c UCS: ☠ PROTO-CUNEIFORM SIGN BIR-C	124
	PCSL: BIR <sub>3</sub> ~a CDLI: BIR3~a UCS: ☢ PROTO-CUNEIFORM SIGN BIR3-A	125
	PCSL: BIR <sub>3</sub> ~a~v1 CDLI: BIR3~a UCS: ☢ PROTO-CUNEIFORM SIGN BIR3-A VARIANT 1 • Variant of ☢ BIR <sub>3</sub> ~a	126
	PCSL: BIR <sub>3</sub> ~b CDLI: BIR3~b UCS: ☣ PROTO-CUNEIFORM SIGN BIR3-B	127
	PCSL: BIR <sub>3</sub> ~b~v1 CDLI: BIR3~b UCS: ☣ PROTO-CUNEIFORM SIGN BIR3-B VARIANT 1 • Variant of ☣ BIR <sub>3</sub> ~b	128
	PCSL: BIR <sub>3</sub> ~c CDLI: BIR3~c UCS: ☤ PROTO-CUNEIFORM SIGN BIR3-C	129
	PCSL: BU~a CDLI: BU~a UCS: ☥ PROTO-CUNEIFORM SIGN BU-A	130
	PCSL:  BU~a+DU <sub>6</sub> ~a  CDLI:  BU~a+DU6~a  UCS: ☦ PROTO-CUNEIFORM SIGN BU-A JOINING DU6-A	131
	PCSL:  BU~a+DU <sub>6</sub> ~a~v1  CDLI:  BU~a+DU6~a  UCS: ☧ PROTO-CUNEIFORM SIGN BU-A JOINING DU6-A VARIANT 1 • Variant of ☦  BU~a+DU <sub>6</sub> ~a	132
	PCSL:  BU~a×GIŠ@t  CDLI:  BU~axGISZ@t  UCS: ☨ PROTO-CUNEIFORM SIGN BU-A TIMES GISH TENU	133

	PCSL:  BU~a×1(N58)  CDLI:  BU~ax1(N58)  UCS: ×+ PROTO-CUNEIFORM SIGN BU-A TIMES ONE-N58	134
	PCSL:  (BU~a&BU~a).NA2~a  CDLI:  (BU~a&BU~a).NA2~a  UCS: ×+ PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-A	135
	PCSL:  (BU~a&BU~a).NA2~a~v1  CDLI:  (BU~a&BU~a).NA2~a  UCS: ×+ PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-A VARIANT 1 • Variant of ×+  (BU~a&BU~a).NA2~a	136
	PCSL:  (BU~a&BU~a).NA2~b  CDLI:  (BU~a&BU~a).NA2~b  Unicode status: not proposed: unified with ×+  (BU~a~v1%BU~a~v1).NA2~a@n  • Has a compound-only sign: ×+ NA2~b	137
	PCSL:  (BU~a&BU~a).X  CDLI:  (BU~a&BU~a).X  UCS: ×+ PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE X • Has a fragmentary or missing portion	138
	PCSL: BU~a~v1 CDLI: BU~a UCS: ×~ PROTO-CUNEIFORM SIGN BU-A VARIANT 1 • Variant of ×— BU~a	139
	PCSL:  BU~a~v1xA  CDLI:  BU~axA  UCS: ×~+ PROTO-CUNEIFORM SIGN BU-A VARIANT 1 TIMES A	140
	PCSL:  (BU~a~v1%BU~a~v1).NA2~a@n  CDLI:  (BU~a&BU~a).NA2~a@n  UCS: ×~+ PROTO-CUNEIFORM SIGN BU-A VARIANT 1 CROSSING BU-A VARIANT 1 BESIDE NA2-A NUTILLU • Glyph changed to ×+ from × • Has a compound-only sign: ×+ NA2~a@n	141
	PCSL: BU~b CDLI: BU~b UCS: × PROTO-CUNEIFORM SIGN BU-B	142

	PCSL:  BU~b.NA <sub>2</sub> ~a~v1  CDLI:  BU~b.NA2~a  UCS:  PROTO-CUNEIFORM SIGN BU-B BESIDE NA2-A VARIANT 1	143
	PCSL: BU <sub>3</sub> CDLI: BU3 UCS:  PROTO-CUNEIFORM SIGN BU3	144
	PCSL: BULUG CDLI: BULUG UCS:  PROTO-CUNEIFORM SIGN BULUG	145
	PCSL: BULUG <sub>3</sub> CDLI: BULUG3 UCS:  PROTO-CUNEIFORM SIGN BULUG3	146
	PCSL: BUR~a CDLI: BUR~a UCS:  PROTO-CUNEIFORM SIGN BUR-A	147
	PCSL: BUR~b CDLI: BUR~b UCS:  PROTO-CUNEIFORM SIGN BUR-B	148
	PCSL: BUR~c CDLI: BUR~c UCS:  PROTO-CUNEIFORM SIGN BUR-C	149
	PCSL: BUR~d CDLI: BUR~d UCS:  PROTO-CUNEIFORM SIGN BUR-D	150
	PCSL: BUR <sub>2</sub> CDLI: BUR2 UCS:  PROTO-CUNEIFORM SIGN BUR2	151
	PCSL: DA~a CDLI: DA~a UCS:  PROTO-CUNEIFORM SIGN DA-A	152
	PCSL:  DA~a.LIŠ  CDLI:  DA~a.LISZ  UCS:  PROTO-CUNEIFORM SIGN DA-A BESIDE LISZ	153

	PCSL: DA~b CDLI: DA~b UCS:  PROTO-CUNEIFORM SIGN DA-B	154
	PCSL: DA~c CDLI: DA~c UCS:  PROTO-CUNEIFORM SIGN DA-C	155
	PCSL: DA~d CDLI: DA~d UCS:  PROTO-CUNEIFORM SIGN DA-D	156
	PCSL: DAG CDLI: DAG Unicode status: not proposed due to chronological scope	157
	PCSL: DAH CDLI: DAH UCS:  PROTO-CUNEIFORM SIGN DAH	158
	PCSL: DAM CDLI: DAM UCS:  PROTO-CUNEIFORM SIGN DAM	159
	PCSL: DANNA CDLI: DANNA UCS:  PROTO-CUNEIFORM SIGN DANNA	160
	PCSL: DAR~a CDLI: DAR~a UCS:  PROTO-CUNEIFORM SIGN DAR-A	161
	PCSL:  DAR~axA  CDLI:  DAR~axA  UCS:  PROTO-CUNEIFORM SIGN DAR-A TIMES A	162
	PCSL: DAR~b CDLI: DAR~b UCS:  PROTO-CUNEIFORM SIGN DAR-B	163
	PCSL: DAR~c CDLI: DAR~c UCS:  PROTO-CUNEIFORM SIGN DAR-C	164

	PCSL: DAR~d CDLI: DAR~d UCS: ☠ PROTO-CUNEIFORM SIGN DAR-D	165
	PCSL: DARA <sub>3</sub> ~a CDLI: DARA3~a UCS: ☡ PROTO-CUNEIFORM SIGN DARA3-A	166
	PCSL: DARA <sub>3</sub> ~b CDLI: DARA3~b UCS: ☢ PROTO-CUNEIFORM SIGN DARA3-B	167
	PCSL: DARA <sub>3</sub> ~c CDLI: DARA3~c UCS: ☣ PROTO-CUNEIFORM SIGN DARA3-C	168
	PCSL:  DARA <sub>3</sub> ~c×KAR <sub>2</sub> ~b  CDLI:  DARA3~cxKAR2  UCS: ☤ PROTO-CUNEIFORM SIGN DARA3-C TIMES KAR2-B	169
	PCSL:  DARA <sub>3</sub> ~cx(KAR <sub>2</sub> ~c.ŠE~a)  CDLI:  DARA3~cx(KAR2.SZE~a)  UCS: ☥ PROTO-CUNEIFORM SIGN DARA3-C TIMES KAR2-C PLUS SHE-A • Has a compound-only sign: ☦ KAR <sub>2</sub> ~c	170
	PCSL: DARA <sub>3</sub> ~c~v1 CDLI: DARA3~c UCS: ☦ PROTO-CUNEIFORM SIGN DARA3-C VARIANT 1 • Variant of ☣ DARA <sub>3</sub> ~c	171
	PCSL: DARA <sub>3</sub> ~d CDLI: DARA3~d UCS: ☧ PROTO-CUNEIFORM SIGN DARA3-D	172
	PCSL:  DARA <sub>3</sub> ~d×KAR <sub>2</sub> ~b  CDLI:  DARA3~dxKAR2  UCS: ☨ PROTO-CUNEIFORM SIGN DARA3-D TIMES KAR2-B	173
	PCSL:  DARA <sub>3</sub> ~d1×KAR <sub>2</sub> ~b  CDLI:  DARA3~d1xKAR2  UCS: ☩ PROTO-CUNEIFORM SIGN DARA3-D1 TIMES KAR2-B • Variant of ☨  DARA <sub>3</sub> ~d×KAR <sub>2</sub> ~b  • Has a compound-only sign: ☪ DARA <sub>3</sub> ~d1	174



PCSL: |DARA<sub>3</sub>~d2×KAR<sub>2</sub>~a1|  
 CDLI: |DARA3~dxKAR2|  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN DARA3-D2 TIMES KAR2-A1  
 • Variant of 𒂔 |DARA<sub>3</sub>~d×KAR<sub>2</sub>~b|  
 • Has 2 compound-only signs: 𒂔 KAR<sub>2</sub>~a1, 𒂔 DARA<sub>3</sub>~d2

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PCSL: |DARA<sub>3</sub>~d2×(KAR<sub>2</sub>~a1.ŠE~a)|  
 CDLI: |DARA3~dx(KAR2.SZE~a)|  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN DARA3-D2 TIMES KAR2-A1 PLUS SHE-A  
 • Has 2 compound-only signs: 𒂔 KAR<sub>2</sub>~a1, 𒂔 DARA<sub>3</sub>~d2

176



PCSL: DARA<sub>4</sub>~a1  
 CDLI: DARA4~a1  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN DARA4-A1

177



PCSL: DARA<sub>4</sub>~a2  
 CDLI: DARA4~a2  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN DARA4-A2

178



PCSL: DARA<sub>4</sub>~a3  
 CDLI: DARA4~a3  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN DARA4-A3

179



PCSL: DARA<sub>4</sub>~b  
 CDLI: DARA4~b  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN DARA4-B

180



PCSL: DARA<sub>4</sub>~c1  
 CDLI: DARA4~c1  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN DARA4-C1

181



PCSL: DARA<sub>4</sub>~c2  
 CDLI: DARA4~c2  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN DARA4-C2

182



PCSL: DARA<sub>4</sub>~c3  
 CDLI: DARA4~c3  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN DARA4-C3

183



PCSL: DARA<sub>4</sub>~c4  
 CDLI: DARA4~c4  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN DARA4-C4

184

	PCSL: DARA <sub>4~c5</sub> CDLI: DARA4~c5 UCS: 𒃩 PROTO-CUNEIFORM SIGN DARA4-C5	185
	PCSL: DI CDLI: DI UCS: 𒄑 PROTO-CUNEIFORM SIGN DI	186
	PCSL: DI@t CDLI: DI@t UCS: 𒄑 PROTO-CUNEIFORM SIGN DI TENU	187
	PCSL: DIB CDLI: DIB UCS: 𒄒 PROTO-CUNEIFORM SIGN DIB	188
	PCSL: DIB~v1 CDLI: DIB UCS: 𒄒 PROTO-CUNEIFORM SIGN DIB VARIANT 1 • Variant of 𒄒 DIB	189
	PCSL: DILMUN CDLI: DILMUN UCS: 𒄭 PROTO-CUNEIFORM SIGN DILMUN	190
	PCSL: DILMUN~v1 CDLI: DILMUN UCS: 𒄭 PROTO-CUNEIFORM SIGN DILMUN VARIANT 1 • Variant of 𒄭 DILMUN	191
	PCSL: DILMUN~v2 CDLI: DILMUN UCS: 𒄭 PROTO-CUNEIFORM SIGN DILMUN VARIANT 2 • Variant of 𒄭 DILMUN	192
	PCSL: DIM~a CDLI: DIM~a UCS: 𒀭 PROTO-CUNEIFORM SIGN DIM-A	193
	PCSL:  DIM~axGU  CDLI:  DIM~axGU  Unicode status: not proposed due to chronological scope	194

	PCSL:  DIM~axX  CDLI:  DIM~axX  Unicode status: not proposed due to chronological scope • Has a fragmentary or missing portion	195
	PCSL: DIM~b CDLI: DIM~b UCS: ^< PROTO-CUNEIFORM SIGN DIM-B	196
	PCSL: DIM~c CDLI: DIM~c UCS: ^> PROTO-CUNEIFORM SIGN DIM-C	197
	PCSL: DIN CDLI: DIN UCS: > PROTO-CUNEIFORM SIGN DIN	198
	PCSL: DIN@t CDLI: DIN@t UCS: <> PROTO-CUNEIFORM SIGN DIN TENU	199
	PCSL: DU CDLI: DU UCS: << PROTO-CUNEIFORM SIGN DU	200
	PCSL:  DUx1(N58@t)  CDLI:  DUXDISZ  Unicode status: not proposed due to chronological scope • DISZ renamed as 1(N58)	201
	PCSL: DU@g CDLI: DU@g UCS: << PROTO-CUNEIFORM SIGN DU GUNU	202
	PCSL: DU <sub>6</sub> ~a CDLI: DU6~a UCS: << PROTO-CUNEIFORM SIGN DU6-A	203
	PCSL: DU <sub>6</sub> ~a~v1 CDLI: DU6~a Unicode status: not proposed due to chronological scope • Variant of << DU <sub>6</sub> ~a	204

	PCSL:  DU <sub>6</sub> ~a~v1x1(N58)  CDLI:  DU6~axDISZ  UCS: 𒂔 PROTO-CUNEIFORM SIGN DU6-A VARIANT 1 TIMES ONE-N58 • DISZ renamed as 1(N58)	205
	PCSL: DU <sub>6</sub> ~b CDLI: DU6~b UCS: 𒂔 PROTO-CUNEIFORM SIGN DU6-B	206
	PCSL: DU <sub>6</sub> ~c CDLI: DU6~c UCS: 𒂔 PROTO-CUNEIFORM SIGN DU6-C	207
	PCSL: DU <sub>7</sub> CDLI: DU7 UCS: 𒂔 PROTO-CUNEIFORM SIGN DU7	208
	PCSL: DU <sub>8</sub> ~a CDLI: DU8~a UCS: 𒂔 PROTO-CUNEIFORM SIGN DU8-A	209
	PCSL: DU <sub>8</sub> ~b CDLI: DU8~b UCS: 𒂔 PROTO-CUNEIFORM SIGN DU8-B	210
	PCSL: DU <sub>8</sub> ~b~v1 CDLI: DU8~b UCS: 𒂔 PROTO-CUNEIFORM SIGN DU8-B VARIANT 1 • Variant of 𒂔 DU <sub>8</sub> ~b	211
	PCSL: DU <sub>8</sub> ~c CDLI: DU8~c UCS: 𒂔 PROTO-CUNEIFORM SIGN DU8-C	212
	PCSL:  DU <sub>8</sub> ~c~xHI  CDLI:  DU8~cxHI  UCS: 𒂔 PROTO-CUNEIFORM SIGN DU8-C TIMES HI	213
	PCSL:  DU <sub>8</sub> ~c~xUDU~a  CDLI:  DU8~cxUDU~a  UCS: 𒂔 PROTO-CUNEIFORM SIGN DU8-C TIMES UDU-A	214

	PCSL:  DU <sub>8</sub> ~c×X  CDLI:  DU8~cxX  UCS: ☈ PROTO-CUNEIFORM SIGN DU8-C TIMES X • Has a fragmentary or missing portion	215
	PCSL: DU <sub>8</sub> ~c@g CDLI: DU8~c@g UCS: ☉ PROTO-CUNEIFORM SIGN DU8-C GUNU	216
	PCSL: DU <sub>8</sub> ~c@g~v1 CDLI: DU8~c@g UCS: ☉ PROTO-CUNEIFORM SIGN DU8-C GUNU VARIANT 1 • Variant of ☉ DU <sub>8</sub> ~c@g	217
	PCSL: DUB~a CDLI: DUB~a UCS: ☎ PROTO-CUNEIFORM SIGN DUB-A	218
	PCSL: DUB~b CDLI: DUB~b UCS: ☎ PROTO-CUNEIFORM SIGN DUB-B	219
	PCSL: DUB~b~v1 CDLI: DUB~b UCS: ☎ PROTO-CUNEIFORM SIGN DUB-B VARIANT 1 • Variant of ☎ DUB~b	220
	PCSL: DUB~b~v2 CDLI: DUB~b UCS: ☎ PROTO-CUNEIFORM SIGN DUB-B VARIANT 2 • Variant of ☎ DUB~b	221
	PCSL: DUB~b~v3 CDLI: DUB~b UCS: ☎ PROTO-CUNEIFORM SIGN DUB-B VARIANT 3 • Variant of ☎ DUB~b	222
	PCSL: DUB~b~v4 CDLI: DUB~b UCS: ☎ PROTO-CUNEIFORM SIGN DUB-B VARIANT 4 • Variant of ☎ DUB~b	223
	PCSL: DUB~c CDLI: DUB~c UCS: ☎ PROTO-CUNEIFORM SIGN DUB-C	224

	PCSL: DUB~d CDLI: DUB~d UCS: 𒂔 PROTO-CUNEIFORM SIGN DUB-D	225
	PCSL: DUB~e CDLI: DUB~e UCS: 𒂕 PROTO-CUNEIFORM SIGN DUB-E	226
	PCSL: DUB~f CDLI: DUB~f UCS: 𒂖 PROTO-CUNEIFORM SIGN DUB-F	227
	PCSL:   (DUB@n~ax1(N58))~a   CDLI:   (DUBxDISZ)~a   UCS: 𒂗 PROTO-CUNEIFORM SIGN DUB NUTILLU-A TIMES ONE-N58 FORM A • DISZ renamed as 1(N58) • Has a compound-only sign: 𒂗 DUB@n~a	228
	PCSL:   (DUB@n~ax1(N58))~b   CDLI:   (DUBxDISZ)~b   UCS: 𒂗 PROTO-CUNEIFORM SIGN DUB NUTILLU-A TIMES ONE-N58 FORM B • DISZ renamed as 1(N58) • Has a compound-only sign: 𒂗 DUB@n~a	229
	PCSL:   DUB@n~bx1(N58)~a   CDLI:   (DUBxDISZ)~b   UCS: 𒂗 PROTO-CUNEIFORM SIGN DUB NUTILLU-B TIMES ONE-N58 FORM A • DISZ renamed as 1(N58) • Has 2 compound-only signs: 𒂗 1(N58)~a, 𒂗 DUB@n~b	230
	PCSL: DUB <sub>2</sub> CDLI: DUB2 UCS: 𒂗 PROTO-CUNEIFORM SIGN DUB2	231
	PCSL: DUG~a CDLI: DUG~a UCS: 𒂔 PROTO-CUNEIFORM SIGN DUG-A	232
	PCSL:   DUG~axHI   CDLI:   DUG~axHI   Unicode status: not proposed due to chronological scope	233
	PCSL:   DUG~axKASKAL   CDLI:   DUG~axKASKAL   UCS: 𒂔 PROTO-CUNEIFORM SIGN DUG-A TIMES KASKAL	234

	PCSL:  DUG~axLAM~b  CDLI:  DUG~axLAM~b  UCS: 𒂔  PROTOKUNEFIR SIGN DUG-A TIMES LAM-B	235
	PCSL:  DUG~axNAGA~a  CDLI:  DUG~axNAGA~a  UCS: 𒂔  PROTOKUNEFIR SIGN DUG-A TIMES NAGA-A	236
	PCSL:  DUG~axU₂~a  CDLI:  DUG~axU₂~a  UCS: 𒂔  PROTOKUNEFIR SIGN DUG-A TIMES U2-A	237
	PCSL:  DUG~axU₂~b  CDLI:  DUG~axU₂~b  UCS: 𒂔  PROTOKUNEFIR SIGN DUG-A TIMES U2-B	238
	PCSL:  DUG~axX  CDLI:  DUG~axX  Unicode status: not proposed due to chronological scope • Has a fragmentary or missing portion	239
	PCSL:  DUG~ax1(N57)  CDLI:  DUG~ax1(N57)  UCS: 𒂔  PROTOKUNEFIR SIGN DUG-A TIMES ONE-N57	240
	PCSL: DUG~a@t CDLI: Not included in CDLI-gh UCS: 𒂔  PROTOKUNEFIR SIGN DUG-A TENU • Added to repertoire from W 9168,v = P001077 o ii 4 (Uruk)	241
	PCSL: DUG~a~v1 CDLI: DUG~a UCS: 𒂔  PROTOKUNEFIR SIGN DUG-A VARIANT 1 • Variant of 𒂔  DUG~a	242
	PCSL: DUG~a~v2 CDLI: DUG~a UCS: 𒂔  PROTOKUNEFIR SIGN DUG-A VARIANT 2 • Variant of 𒂔  DUG~a	243
	PCSL: DUG~b CDLI: DUG~b UCS: 𒂔  PROTOKUNEFIR SIGN DUG-B	244

	PCSL:  DUG~b×ANŠE~b  CDLI:  DUG~bxANSZE~b  UCS: ☈ PROTO-CUNEIFORM SIGN DUG-B TIMES ANSHE-B	245
	PCSL:  DUG~b×ANŠE~d  CDLI:  DUG~bxANSZE~d  UCS: ☈ PROTO-CUNEIFORM SIGN DUG-B TIMES ANSHE-D • Has a compound-only sign: ☈ ANŠE~d	246
	PCSL:  DUG~b×BALA~a  CDLI:  DUG~bxBALA~a  UCS: ☈ PROTO-CUNEIFORM SIGN DUG-B TIMES BALA-A	247
	PCSL:  DUG~b×BIR <sub>3</sub> ~c  CDLI:  DUG~bxBIR3~c  UCS: ☈ PROTO-CUNEIFORM SIGN DUG-B TIMES BIR3-C	248
	PCSL:  DUG~b×DIN  CDLI:  DUG~bxDIN  UCS: ☈ PROTO-CUNEIFORM SIGN DUG-B TIMES DIN	249
	PCSL:  (DUG~b×DIN)@r  CDLI:  (DUG~bxDIN)@r  UCS: ☈ PROTO-CUNEIFORM SIGN DUG-B TIMES DIN REVERSED	250
	PCSL:  DUG~b×E~a  CDLI:  DUG~bxE~a  UCS: ☈ PROTO-CUNEIFORM SIGN DUG-B TIMES E-A	251
	PCSL:  DUG~b×GA~a~v4  CDLI:  DUG~bxGA~a  UCS: ☈ PROTO-CUNEIFORM SIGN DUG-B TIMES GA-A VARIANT 4	252
	PCSL:  DUG~b×GA~b  CDLI:  DUG~bxGA~b  UCS: ☈ PROTO-CUNEIFORM SIGN DUG-B TIMES GA-B	253
	PCSL:  DUG~b×GEŠTU~a~v2  CDLI:  DUG~bxGESZTU~a  UCS: ☈ PROTO-CUNEIFORM SIGN DUG-B TIMES GESHTU-A VARIANT 2	254
	PCSL:  DUG~b×GEŠTU~b  CDLI:  DUG~bxGESZTU~b  UCS: ☈ PROTO-CUNEIFORM SIGN DUG-B TIMES GESHTU-B	255

	PCSL:  DUG~bxGI <sub>6</sub>   CDLI:  DUG~bxGI6  UCS: ☠ PROTO-CUNEIFORM SIGN DUG-B TIMES GI6	256
	PCSL:  DUG~bxGIŠ  CDLI:  DUG~bxGISZ  UCS: ☠ PROTO-CUNEIFORM SIGN DUG-B TIMES GISH	257
	PCSL:  DUG~bxHI  CDLI:  DUG~bxHI  UCS: ☠ PROTO-CUNEIFORM SIGN DUG-B TIMES HI	258
	PCSL:  DUG~bxKASKAL  CDLI:  DUG~bxKASKAL  UCS: ☠ PROTO-CUNEIFORM SIGN DUG-B TIMES KASKAL	259
	PCSL:  DUG~bxKU <sub>6</sub> ~a  CDLI:  DUG~bxKU6~a  UCS: ☠ PROTO-CUNEIFORM SIGN DUG-B TIMES KU6-A	260
	PCSL:  DUG~bxKUR~a  CDLI:  DUG~bxKUR~a  UCS: ☠ PROTO-CUNEIFORM SIGN DUG-B TIMES KUR-A	261
	PCSL:  DUG~bx(KUR~a.X)  CDLI:  DUG~bx(KUR~a.X)  UCS: ☠ PROTO-CUNEIFORM SIGN DUG-B TIMES KUR-A PLUS X • Has a fragmentary or missing portion • Group inner operator . 'beside' → 'plus' in Unicode name	262
	PCSL:  DUG~bxKUR~b  CDLI:  DUG~bxKUR~b  UCS: ☠ PROTO-CUNEIFORM SIGN DUG-B TIMES KUR-B	263
	PCSL:  DUG~bxKUR@g~a  CDLI:  DUG~bxKUR@g~a  UCS: ☠ PROTO-CUNEIFORM SIGN DUG-B TIMES KUR GUNU-A	264
	PCSL:  DUG~bxLAM~a  CDLI:  DUG~bxLAM~a  UCS: ☠ PROTO-CUNEIFORM SIGN DUG-B TIMES LAM-A	265

	PCSL:  DUG~bxMAŠ  CDLI:  DUG~bxMASZ  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES MASH	266
	PCSL:  DUG~bxNAGA~a  CDLI:  DUG~bxNAGA~a  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES NAGA-A	267
	PCSL:  DUG~bxNAM₂  CDLI:  DUG~bxNAM2  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES NAM2	268
	PCSL:  DUG~bx(NI~a@g.ZATU779)  CDLI:  DUG~bx(NI~a@g.ZATU779)  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES NI-A GUNU PLUS ZATU779 • Group inner operator . 'beside' → 'plus' in Unicode name	269
	PCSL:  DUG~bxSA~a  CDLI:  DUG~bxSA~a  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES SA-A	270
	PCSL:  DUG~bxSI₄~a  CDLI:  DUG~bxSI4~a  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES SI4-A	271
	PCSL:  DUG~bx(SI₄~a.X)  CDLI:  DUG~bx(SI4~a.X)  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES SI4-A PLUS X • Has a fragmentary or missing portion • Group inner operator . 'beside' → 'plus' in Unicode name	272
	PCSL:  DUG~bxSIG₂~a₁  CDLI:  DUG~bxSIG2~a1  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES SIG2-A1	273
	PCSL:  DUG~bxSIG₂~a₂  CDLI:  DUG~bxSIG2~a2  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES SIG2-A2	274
	PCSL:  DUG~bxSIG₇  CDLI:  DUG~bxSIG7  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES SIG7	275

	PCSL:  DUG~bxSUHUR  CDLI:  DUG~bxSUHUR  UCS: ☧ PROTO-CUNEIFORM SIGN DUG-B TIMES SUHUR	276
	PCSL:  DUG~bxŠAH₂~a  CDLI:  DUG~bxSZAH2~a  UCS: ☧ PROTO-CUNEIFORM SIGN DUG-B TIMES SHAH2-A	277
	PCSL:  DUG~bxŠE~a  CDLI:  DUG~bxSZE~a  UCS: ☧ PROTO-CUNEIFORM SIGN DUG-B TIMES SHE-A	278
	PCSL:  DUG~bx(ŠE~a.NAM₂)  CDLI:  DUG~bx(SZE~a.NAM2)  UCS: ☧ PROTO-CUNEIFORM SIGN DUG-B TIMES SHE-A PLUS NAM2 • Group inner operator . 'beside' → 'plus' in Unicode name	279
	PCSL:  DUG~bxTAK₄~a  CDLI:  DUG~bxTAK4~a  UCS: ☧ PROTO-CUNEIFORM SIGN DUG-B TIMES TAK4-A	280
	PCSL:  DUG~bx(TAK₄~a.SA~a)  CDLI:  DUG~bx(TAK4~a.SA~a)  UCS: ☧ PROTO-CUNEIFORM SIGN DUG-B TIMES TAK4-A PLUS SA-A • Group inner operator . 'beside' → 'plus' in Unicode name	281
	PCSL:  DUG~bx(TAK₄~a.SAL)  CDLI:  DUG~bx(TAK4~a.SAL)  UCS: ☧ PROTO-CUNEIFORM SIGN DUG-B TIMES TAK4-A PLUS SAL • Group inner operator . 'beside' → 'plus' in Unicode name	282
	PCSL:  DUG~bxTI  CDLI:  DUG~bxTI  UCS: ☧ PROTO-CUNEIFORM SIGN DUG-B TIMES TI	283
	PCSL:  DUG~bxU₂~a  CDLI:  DUG~bxU2~a  UCS: ☧ PROTO-CUNEIFORM SIGN DUG-B TIMES U2-A	284
	PCSL:  DUG~bxU₂~b  CDLI: Not included in CDLI-gh UCS: ☧ PROTO-CUNEIFORM SIGN DUG-B TIMES U2-B • Added to repertoire from VAT 17858+ = P000015 o ii 9 (Uruk)	285

	PCSL:  DUG~bxUH <sub>3</sub> ~a  CDLI:  DUG~bxUH3~a  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES UH3-A	286
	PCSL:  DUG~bxUH <sub>3</sub> ~a@t  CDLI:  DUG~bxUH3~a@t  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES UH3-A TENU	287
	PCSL:  DUG~bxX  CDLI:  DUG~bxX  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES X • Has a fragmentary or missing portion	288
	PCSL:  DUG~bxZATU707~a  CDLI:  DUG~bxZATU707~a  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES ZATU707-A	289
	PCSL:  DUG~bxZATU764  CDLI:  DUG~bxZATU764  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES ZATU764	290
	PCSL:  DUG~bxZATU779  CDLI:  DUG~bxZATU779  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES ZATU779	291
	PCSL:  DUG~bxZATU780  CDLI:  DUG~bxZATU780  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES ZATU780	292
	PCSL:  DUG~bxZATU781  CDLI:  DUG~bxZATU781  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES ZATU781	293
	PCSL:  DUG~bx(ZATU789.SA~a)  CDLI:  DUG~bx(ZATU789.SA~a)  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES ZATU789 PLUS SA-A • Group inner operator . 'beside' → 'plus' in Unicode name	294
	PCSL:  DUG~bx1(N57)  CDLI:  DUG~bx1(N57)  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES ONE-N57	295

	PCSL:  DUG~bx(1(N57).KU3~a)  CDLI:  DUG~bx(1(N57).KU3~a)  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES ONE-N57 PLUS KU3-A • Group inner operator . 'beside' → 'plus' in Unicode name	296
	PCSL:  DUG~bx3(N57)  CDLI:  DUG~bx3(N57)  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B TIMES THREE-N57	297
	PCSL: DUG~b~v1 CDLI: DUG~b UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B VARIANT 1 • Variant of ☐ DUG~b	298
	PCSL:  DUG~b~v1xAB2  CDLI:  DUG~bxAB2  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B VARIANT 1 TIMES AB2	299
	PCSL:  DUG~b~v1xDIN  CDLI:  DUG~bxDIN  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B VARIANT 1 TIMES DIN • Variant of ☐  DUG~bxDIN	300
	PCSL:  DUG~b~v1xGEŠTU~a~v2  CDLI:  DUG~bxGESZTU~a  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B VARIANT 1 TIMES GESHTU-A VARIANT 2 • Variant of ☐  DUG~bxGEŠTU~a~v2	301
	PCSL:  DUG~b~v1xHI  CDLI:  DUG~bxHI  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B VARIANT 1 TIMES HI • Variant of ☐  DUG~bxHI	302
	PCSL:  DUG~b~v1xHI@g~a  CDLI:  DUG~bxHI@g~a  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B VARIANT 1 TIMES HI GUNU-A	303
	PCSL:  DUG~b~v1xMAŠ  CDLI:  DUG~bxMASZ  UCS: ☐ PROTO-CUNEIFORM SIGN DUG-B VARIANT 1 TIMES MASH • Variant of ☐  DUG~bxMAŠ	304

	PCSL:  DUG~b~v1xŠE~a  CDLI:  DUG~bxSZE~a  UCS: ▷▷ PROTO-CUNEIFORM SIGN DUG-B VARIANT 1 TIMES SHE-A • Variant of ▷▷  DUG~bxŠE~a	305
	PCSL:  DUG~b~v1xŠE~a@t  CDLI:  DUG~bxSZE~a  UCS: ▷▷ PROTO-CUNEIFORM SIGN DUG-B VARIANT 1 TIMES SHE-A TENU • Variant of ▷▷  DUG~bxŠE~a	306
	PCSL:  DUG~b~v1xU2~b  CDLI:  DUG~bxU2~b  UCS: ▷▷ PROTO-CUNEIFORM SIGN DUG-B VARIANT 1 TIMES U2-B	307
	PCSL:  DUG~b~v1xX  CDLI:  DUG~bxX  UCS: ▷▷ PROTO-CUNEIFORM SIGN DUG-B VARIANT 1 TIMES X • Variant of ▷▷  DUG~bxX  • Has a fragmentary or missing portion	308
	PCSL:  DUG~b~v1x1(N57)  CDLI:  DUG~bx1(N57)  UCS: ▷▷ PROTO-CUNEIFORM SIGN DUG-B VARIANT 1 TIMES ONE-N57 • Variant of ▷▷  DUG~bx1(N57)	309
	PCSL:  (DUG~b~v1&DUG~b~v1)x1(N58)  CDLI:  (DUG~b&DUG~b)x1(N58)  UCS: ▷▷ PROTO-CUNEIFORM SIGN DUG-B VARIANT 1 OVER DUG-B VARIANT 1 TIMES ONE-N58	310
	PCSL:  DUG~b~v2xU2~b  CDLI:  DUG~bxU2~b  UCS: ▷▷ PROTO-CUNEIFORM SIGN DUG-B VARIANT 2 TIMES U2-B • Variant of ▷▷  DUG~b~v1xU2~b  • Has a compound-only sign: ▷▷ DUG~b~v2	311
	PCSL: DUG~c@t CDLI: DUG~c@t UCS: ▷ PROTO-CUNEIFORM SIGN DUG-C TENU • Unifies ▷ DUG~d	312

	PCSL: DUG~c~v1 CDLI: DUG~c UCS:  PROTO-CUNEIFORM SIGN DUG-C VARIANT 1	313
	PCSL:  DUG~c~v1x1(N57)  CDLI:  DUG~cx1(N57)  UCS:  PROTO-CUNEIFORM SIGN DUG-C VARIANT 1 TIMES ONE-N57	314
	PCSL:  DUG~c~v2x1(N57)  CDLI:  DUG~cx1(N57)  UCS:  PROTO-CUNEIFORM SIGN DUG-C VARIANT 2 TIMES ONE-N57 <ul style="list-style-type: none"><li>• Variant of   DUG~c~v1x1(N57) </li><li>• Has a compound-only sign:  DUG~c~v2</li></ul>	315
	PCSL: DUG~c~v3 CDLI: DUG~c UCS:  PROTO-CUNEIFORM SIGN DUG-C VARIANT 3 <ul style="list-style-type: none"><li>• Variant of  DUG~c~v1</li></ul>	316
	PCSL:  DUG~c~v3x1(N57)  CDLI:  DUG~cx1(N57)  UCS:  PROTO-CUNEIFORM SIGN DUG-C VARIANT 3 TIMES ONE-N57 <ul style="list-style-type: none"><li>• Variant of   DUG~c~v1x1(N57) </li></ul>	317
	PCSL: DUG~c2@t CDLI: Not included in CDLI-gh UCS:  PROTO-CUNEIFORM SIGN DUG-C2 TENU <ul style="list-style-type: none"><li>• Added to repertoire from W 20274,010 = P003508 o ii 2 and r 1 (Uruk)</li></ul>	318
	PCSL: DUG~d CDLI: DUG~d Unicode status: not proposed: unified with  DUG~c@t	319
	PCSL: DUGUD CDLI: DUGUD UCS:  PROTO-CUNEIFORM SIGN DUGUD	320
	PCSL: DUR~a CDLI: DUR~a UCS:  PROTO-CUNEIFORM SIGN DUR-A	321
	PCSL: DUR~b CDLI: DUR~b UCS:  PROTO-CUNEIFORM SIGN DUR-B	322

	PCSL: DUR <sub>2</sub> CDLI: DUR2 UCS: ☈ PROTO-CUNEIFORM SIGN DUR2	323
	PCSL: E~a CDLI: E~a UCS: ☉ PROTO-CUNEIFORM SIGN E-A	324
	PCSL: E~b CDLI: E~b UCS: ☊ PROTO-CUNEIFORM SIGN E-B	325
	PCSL: E~c CDLI: E~c UCS: ☋ PROTO-CUNEIFORM SIGN E-C	326
	PCSL: E~d CDLI: E~d UCS: ☌ PROTO-CUNEIFORM SIGN E-D	327
	PCSL: E~e CDLI: E~e Unicode status: not proposed due to chronological scope	328
	PCSL: E <sub>2</sub> ~a CDLI: E2~a UCS: ☍ PROTO-CUNEIFORM SIGN E2-A	329
	PCSL:  E <sub>2</sub> ~a.LIŠ  CDLI:  E2~a.LISZ  UCS: ☎ PROTO-CUNEIFORM SIGN E2-A BESIDE LISH	330
	PCSL:  E <sub>2</sub> ~a×3(N58)  CDLI:  E2~ax3(N58)  UCS: ☏ PROTO-CUNEIFORM SIGN E2-A TIMES THREE-N58	331
	PCSL:  E <sub>2</sub> ~a×1(N58@t)  CDLI:  E2~ax1(N57)@t  UCS: ☐ PROTO-CUNEIFORM SIGN E2-A TIMES ONE-N58 TENU • CDLI name normalized in PCSL: correct sign specified	332
	PCSL: E <sub>2</sub> ~b CDLI: E2~b UCS: ☎ PROTO-CUNEIFORM SIGN E2-B	333

	PCSL:  E₂~b.LIŠ  CDLI:  E2~b.LISZ  UCS: ☠ PROTO-CUNEIFORM SIGN E2-B BESIDE LISH	334
	PCSL:  E₂~b×1(N58@t)  CDLI:  E2~bx1(N57)@t  UCS: ☠ PROTO-CUNEIFORM SIGN E2-B TIMES ONE-N58 TENU • CDLI name normalized in PCSL: correct sign specified	335
	PCSL: E₂~c CDLI: E2~c UCS: ☠ PROTO-CUNEIFORM SIGN E2-C	336
	PCSL: E₂~d CDLI: E2~d UCS: ☠ PROTO-CUNEIFORM SIGN E2-D	337
	PCSL: E₃~a CDLI: E3~a UCS: ☠ PROTO-CUNEIFORM SIGN E3-A	338
	PCSL: E₃~b CDLI: E3~b UCS: ☠ PROTO-CUNEIFORM SIGN E3-B	339
	PCSL: EDIN CDLI: EDIN UCS: ☠ PROTO-CUNEIFORM SIGN EDIN	340
	PCSL: EN~a CDLI: EN~a UCS: ☠ PROTO-CUNEIFORM SIGN EN-A	341
	PCSL: EN~a~v1 CDLI: EN~a UCS: ☠ PROTO-CUNEIFORM SIGN EN-A VARIANT 1 • Variant of ☠ EN~a	342
	PCSL: EN~a~v2 CDLI: EN~a UCS: ☠ PROTO-CUNEIFORM SIGN EN-A VARIANT 2 • Variant of ☠ EN~a	343

	PCSL: EN~a~v3 CDLI: EN~a UCS: 𒂔 PROTO-CUNEIFORM SIGN EN-A VARIANT 3 • Variant of  EN~a	344
	PCSL: EN~b CDLI: EN~b UCS: 𒂔 PROTO-CUNEIFORM SIGN EN-B	345
	PCSL: EN~b@t CDLI: EN~b@t UCS: 𒂔 PROTO-CUNEIFORM SIGN EN-B TENU	346
	PCSL: EN~b~v1 CDLI: EN~b UCS: 𒂔 PROTO-CUNEIFORM SIGN EN-B VARIANT 1 • Variant of  EN~b	347
	PCSL: EN~c CDLI: EN~c UCS: 𒂔 PROTO-CUNEIFORM SIGN EN-C	348
	PCSL:  EN~c&EN~c  CDLI:  EN~c&EN~c  UCS: 𒂔 PROTO-CUNEIFORM SIGN EN-C OVER EN-C	349
	PCSL: EN~c~v1 CDLI: EN~c UCS: 𒂔 PROTO-CUNEIFORM SIGN EN-C VARIANT 1 • Variant of  EN~c	350
	PCSL: EN~e CDLI: EN~e UCS: 𒂔 PROTO-CUNEIFORM SIGN EN-E	351
	PCSL: EN@g~a CDLI: EN@g~a UCS: 𒂔 PROTO-CUNEIFORM SIGN EN GUNU-A	352
	PCSL: EN@g~b CDLI: EN@g~b UCS: 𒂔 PROTO-CUNEIFORM SIGN EN GUNU-B	353

	PCSL: EN <sub>2</sub> CDLI: EN2 UCS: ☈ PROTO-CUNEIFORM SIGN EN2	354
	PCSL:  EN <sub>2</sub> .E <sub>2~a</sub>   CDLI:  EN2.E2~a  UCS: ☈ PROTO-CUNEIFORM SIGN EN2 BESIDE E2-A	355
	PCSL:  EN <sub>2</sub> .E <sub>2~b</sub>   CDLI:  EN2.E2~b  UCS: ☈ PROTO-CUNEIFORM SIGN EN2 BESIDE E2-B	356
	PCSL: ENDIB CDLI: ENDIB UCS: ☈ PROTO-CUNEIFORM SIGN ENDIB	357
	PCSL: ENGIZ CDLI: ENGIZ UCS: ☈ PROTO-CUNEIFORM SIGN ENGIZ	358
	PCSL: ENKUM CDLI: ENKUM UCS: ☈ PROTO-CUNEIFORM SIGN ENKUM	359
	PCSL: ENKUM~v1 CDLI: ENKUM UCS: ☈ PROTO-CUNEIFORM SIGN ENKUM VARIANT 1 • Variant of ☈ ENKUM	360
	PCSL: ENLIL CDLI: ENLIL UCS: ☈ PROTO-CUNEIFORM SIGN ENLIL	361
	PCSL: ENSI CDLI: ENSI Unicode status: not proposed due to chronological scope	362
	PCSL: ENSI <sub>2</sub> CDLI: ENSI2 Unicode status: not proposed due to chronological scope	363

	PCSL: ERIM~a CDLI: ERIM~a UCS: ܍ PROTO-CUNEIFORM SIGN ERIM-A	364
	PCSL: ERIM~b1 CDLI: ERIM~b1 UCS: ܎ PROTO-CUNEIFORM SIGN ERIM-B1	365
	PCSL: ERIM~b2 CDLI: ERIM~b2 UCS: ܏ PROTO-CUNEIFORM SIGN ERIM-B2	366
	PCSL: ERIM <sub>2</sub> CDLI: ERIM2 UCS: ܑ PROTO-CUNEIFORM SIGN ERIM2	367
	PCSL: ERIN CDLI: ERIN UCS: ܒ PROTO-CUNEIFORM SIGN ERIN	368
	PCSL: EŠDA CDLI: ESZDA UCS: ܔ PROTO-CUNEIFORM SIGN ESHDA	369
	PCSL:  EŠDA×TAR~a  CDLI:  ESZDA×TAR  UCS: ܔܐ PROTO-CUNEIFORM SIGN ESHDA TIMES TAR-A	370
	PCSL: EŠGAR CDLI: ESZGAR UCS: ܔܕ PROTO-CUNEIFORM SIGN ESHGAR	371
	PCSL: EZEN~a CDLI: EZEN~a UCS: ܔܖ PROTO-CUNEIFORM SIGN EZEN-A	372
	PCSL:  EZEN~a×EN~b~v1  CDLI:  EZEN~axEN~b  UCS: ܔܖܔ PROTO-CUNEIFORM SIGN EZEN-A TIMES EN-B VARIANT 1	373



PCSL: |EZEN~ax(HI×1(N57).AN)| 374  
 CDLI: |EZEN~ax(HI.1(N57).AN)|  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN EZEN-A TIMES HI TIMES ONE-N57 PLUS AN  
 • CDLI name normalized in PCSL: correct compound operator specified  
 • Group inner operator . ‘beside’ → ‘plus’ in Unicode name



PCSL: |EZEN~axKAB| 375  
 CDLI: |EZEN~axKAB|  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN EZEN-A TIMES KAB



PCSL: |EZEN~axKI| 376  
 CDLI: |EZEN~axKI|  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN EZEN-A TIMES KI



PCSL: |EZEN~axLA~e| 377  
 CDLI: |EZEN~axLA~e|  
 Unicode status: not proposed due to chronological scope



PCSL: |EZEN~axLA~e|~v1 378  
 CDLI: |EZEN~axLA~e|  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN EZEN-A TIMES LA-E VARIANT 1  
 • Variant of 𒂔 |EZEN~axLA~e|



PCSL: |EZEN~axNIM~b2| 379  
 CDLI: |EZEN~axNIM~b2|  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN EZEN-A TIMES NIM-B2



PCSL: |EZEN~axNIMGIR| 380  
 CDLI: |EZEN~axNIMGIR|  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN EZEN-A TIMES NIMGIR



PCSL: |EZEN~axRAD~a| 381  
 CDLI: |EZEN~axRAD~a|  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN EZEN-A TIMES RAD-A



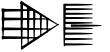
PCSL: |EZEN~axSAG~v1| 382  
 CDLI: |EZEN~axSAG|  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN EZEN-A TIMES SAG VARIANT 1



PCSL: |EZEN~axSU~a| 383  
 CDLI: |EZEN~axSU~a|  
 UCS: 𒂔 PROTÓ-CUNEIFORM SIGN EZEN-A TIMES SU-A

	PCSL:  EZEN~ax(U2~b.A)  CDLI:  EZEN~ax(U2~b.A)  UCS: ☈ PROTO-CUNEIFORM SIGN EZEN-A TIMES U2-B PLUS A • Group inner operator . 'beside' → 'plus' in Unicode name	384
	PCSL:  EZEN~axU4  CDLI:  EZEN~axU4  UCS: ☈ PROTO-CUNEIFORM SIGN EZEN-A TIMES U4	385
	PCSL:  EZEN~axX  CDLI:  EZEN~axX  UCS: ☈ PROTO-CUNEIFORM SIGN EZEN-A TIMES X • Has a fragmentary or missing portion	386
	PCSL: EZEN~a~v1 CDLI: EZEN~a UCS: ☈ PROTO-CUNEIFORM SIGN EZEN-A VARIANT 1 • Variant of ☈ EZEN~a	387
	PCSL:  EZEN~a~v1xEN~a  CDLI:  EZEN~axEN~a  UCS: ☈ PROTO-CUNEIFORM SIGN EZEN-A VARIANT 1 TIMES EN-A	388
	PCSL: EZEN~b CDLI: EZEN~b UCS: ☈ PROTO-CUNEIFORM SIGN EZEN-B	389
	PCSL:  EZEN~bx6(N57)  CDLI:  EZEN~bx6(N57)  Unicode status: not proposed due to chronological scope • Glyph changed to ☈ from ☈	390
	PCSL:  EZEN~bx6(N57) ~v1 CDLI:  EZEN~bx6(N57)  UCS: ☈ PROTO-CUNEIFORM SIGN EZEN-B TIMES SIX-N57 VARIANT 1 • Glyph changed to ☈ from ☈ • Variant of ☈  EZEN~bx6(N57)	391
	PCSL: EZEN~b@t CDLI: EZEN~b@t UCS: ☈ PROTO-CUNEIFORM SIGN EZEN-B TENU • Unifies ☈ EZEN~c	392

	PCSL: EZEN~c CDLI: EZEN~c Unicode status: not proposed: unified with  EZEN~b@t	393
	PCSL: EZINU~a CDLI: EZINU~a UCS:  PROTO-CUNEIFORM SIGN EZINU-A	394
	PCSL: EZINU~b CDLI: EZINU~b UCS:  PROTO-CUNEIFORM SIGN EZINU-B	395
	PCSL: EZINU~c CDLI: EZINU~c UCS:  PROTO-CUNEIFORM SIGN EZINU-C	396
	PCSL: EZINU~d CDLI: EZINU~d UCS:  PROTO-CUNEIFORM SIGN EZINU-D	397
	PCSL: GA~a CDLI: GA~a UCS:  PROTO-CUNEIFORM SIGN GA-A	398
	PCSL: GA~a~v1 CDLI: GA~a UCS:  PROTO-CUNEIFORM SIGN GA-A VARIANT 1 • Variant of  GA~a	399
	PCSL:  GA~a~v1.ZATU753  CDLI:  GA~a.ZATU753  UCS:  PROTO-CUNEIFORM SIGN GA-A VARIANT 1 BESIDE ZATU753	400
	PCSL: GA~a~v2 CDLI: GA~a UCS:  PROTO-CUNEIFORM SIGN GA-A VARIANT 2 • Variant of  GA~a	401

	PCSL: GA~a~v3 CDLI: GA~a UCS:  PROTO-CUNEIFORM SIGN GA-A VARIANT 3 • Variant of  GA~a	402
	PCSL: GA~a~v4 CDLI: GA~a UCS:  PROTO-CUNEIFORM SIGN GA-A VARIANT 4 • Variant of  GA~a	403
	PCSL:  GA~a~v4.ZATU753 ~v1 CDLI:  GA~a.ZATU753  UCS:  PROTO-CUNEIFORM SIGN GA-A VARIANT 4 BESIDE ZATU753 VARIANT 1 • Variant of   GA~a~v1.ZATU753	404
	PCSL:  GA~a~v4×X  CDLI:  GA~axX  Unicode status: not proposed due to chronological scope • Has a fragmentary or missing portion	405
	PCSL: GA~b CDLI: GA~b UCS:  PROTO-CUNEIFORM SIGN GA-B	406
	PCSL: GA~c CDLI: GA~c UCS:  PROTO-CUNEIFORM SIGN GA-C	407
	PCSL:  GA~c×KASKAL  CDLI:  GA~cxKASKAL  UCS:  PROTO-CUNEIFORM SIGN GA-C TIMES KASKAL	408
	PCSL:  GA~c×1(N14)  CDLI:  GA~cx1(N14)  UCS:  PROTO-CUNEIFORM SIGN GA-C TIMES ONE-N14	409
	PCSL: GA <sub>2</sub> ~a1 CDLI: GA2~a1 UCS:  PROTO-CUNEIFORM SIGN GA2-A1	410
	PCSL:  GA <sub>2</sub> ~a1×A  CDLI:  GA2~a1xA  UCS:  PROTO-CUNEIFORM SIGN GA2-A1 TIMES A	411

	PCSL:  GA₂~a₁×EN~b~v₁  CDLI:  GA₂~a₁xEN~b  UCS: 𒂗  PROTÓ-CUNEIFORM SIGN GA2-A1 TIMES EN-B VARIANT 1	412
	PCSL:  GA₂~a₁×GEŠTU~c₃  CDLI:  GA₂~a₁xGESZTU~c₃  UCS: 𒂗  PROTÓ-CUNEIFORM SIGN GA2-A1 TIMES GESHTU-C3	413
	PCSL:  GA₂~a₁×GEŠTU~c₅  CDLI:  GA₂~a₁xGESZTU~c₅  UCS: 𒂗  PROTÓ-CUNEIFORM SIGN GA2-A1 TIMES GESHTU-C5	414
	PCSL:  GA₂~a₁×GIR~a  CDLI:  GA₂~a₁xGIR~a  UCS: 𒂗  PROTÓ-CUNEIFORM SIGN GA2-A1 TIMES GIR-A	415
	PCSL:  GA₂~a₁x(GIR~a.KU₆~a)  CDLI:  GA₂~a₁x(GIR~a.KU6~a)  UCS: 𒂗  PROTÓ-CUNEIFORM SIGN GA2-A1 TIMES GIR-A PLUS KU6-A • Group inner operator . 'beside' → 'plus' in Unicode name	416
	PCSL:  GA₂~a₁×GIŠ@t  CDLI:  GA₂~a₁xGISZ@t  UCS: 𒂗  PROTÓ-CUNEIFORM SIGN GA2-A1 TIMES GISH TENU	417
	PCSL:  GA₂~a₁×GU₄  CDLI:  GA₂~a₁xGU4  Unicode status: not proposed due to chronological scope	418
	PCSL:  GA₂~a₁×HAL  CDLI:  GA₂~a₁xHAL  UCS: 𒂗  PROTÓ-CUNEIFORM SIGN GA2-A1 TIMES HAL	419
	PCSL:  GA₂~a₁×HI  CDLI:  GA₂~a₁xHI  UCS: 𒂗  PROTÓ-CUNEIFORM SIGN GA2-A1 TIMES HI	420
	PCSL:  GA₂~a₁x(HI.SUHUR~v₁)  CDLI:  GA₂~a₁x(HI.SUHUR)  UCS: 𒂗  PROTÓ-CUNEIFORM SIGN GA2-A1 TIMES HI PLUS SUHUR VARIANT 1 • Has a compound-only sign: 𒃶 SUHUR~v1 • Group inner operator . 'beside' → 'plus' in Unicode name	421
	PCSL:  GA₂~a₁×KU₃~a  CDLI:  GA₂~a₁xKU3~a  UCS: 𒂗  PROTÓ-CUNEIFORM SIGN GA2-A1 TIMES KU3-A	422

	PCSL:  GA <sub>2</sub> ~a1xKU <sub>6</sub> ~a  CDLI:  GA2~a1xKU6~a  UCS: 𒂔 PROTO-CUNEIFORM SIGN GA2-A1 TIMES KU6-A	423
	PCSL:  GA <sub>2</sub> ~a1x(KU <sub>6</sub> ~a.KU <sub>6</sub> ~a)  CDLI:  GA2~a1x(KU6~a.KU6~a)  UCS: 𒂔 PROTO-CUNEIFORM SIGN GA2-A1 TIMES KU6-A PLUS KU6-A • Group inner operator . ‘beside’ → ‘plus’ in Unicode name	424
	PCSL:  GA <sub>2</sub> ~a1xLAGAB~b  CDLI:  GA2~a1xLAGAB~b  UCS: 𒂔 PROTO-CUNEIFORM SIGN GA2-A1 TIMES LAGAB-B	425
	PCSL:  GA <sub>2</sub> ~a1xMAŠ  CDLI:  GA2~a1xMASZ  UCS: 𒂔 PROTO-CUNEIFORM SIGN GA2-A1 TIMES MASH	426
	PCSL:  GA <sub>2</sub> ~a1xNAGA~a  CDLI:  GA2~a1xNAGA~a  UCS: 𒂔 PROTO-CUNEIFORM SIGN GA2-A1 TIMES NAGA-A	427
	PCSL:  GA <sub>2</sub> ~a1xNIM~b1  CDLI:  GA2~a2xNIM~b1  UCS: 𒂔 PROTO-CUNEIFORM SIGN GA2-A1 TIMES NIM-B1 • CDLI name normalized in PCSL: correct allograph specified	428
	PCSL:  GA <sub>2</sub> ~a1xNUN~a  CDLI:  GA2~a1xNUN~a  Unicode status: not proposed due to chronological scope	429
	PCSL:  GA <sub>2</sub> ~a1xPAD~b  CDLI:  GA2~a1xPAD~b  UCS: 𒂔 PROTO-CUNEIFORM SIGN GA2-A1 TIMES PAD-B	430
	PCSL:  GA <sub>2</sub> ~a1xPAP~a  CDLI:  GA2~a1xPAP~a  UCS: 𒂔 PROTO-CUNEIFORM SIGN GA2-A1 TIMES PAP-A	431
	PCSL:  GA <sub>2</sub> ~a1xSU~a  CDLI:  GA2~a1xSU~a  UCS: 𒂔 PROTO-CUNEIFORM SIGN GA2-A1 TIMES SU-A	432
	PCSL:  GA <sub>2</sub> ~a1xSUHUR  CDLI:  GA2~a1xSUHUR  UCS: 𒂔 PROTO-CUNEIFORM SIGN GA2-A1 TIMES SUHUR	433

	PCSL:  GA <sub>2</sub> ~a1xSUKUD  CDLI:  GA2~a1xSUKUD  UCS:	434
	PCSL:  GA <sub>2</sub> ~a1x((SUKUD+SUKUD)~a)  CDLI:  GA2~a1x((SUKUD&SUKUD)~a)  UCS: • CDLI name normalized in PCSL: correct compound operator specified	435
	PCSL:  GA <sub>2</sub> ~a1x((SUKUD+SUKUD)~b)  CDLI:  GA2~a1x((SUKUD&SUKUD)~b)  UCS: • CDLI name normalized in PCSL: correct compound operator specified	436
	PCSL:  GA <sub>2</sub> ~a1xSUMAŠ  CDLI:  GA2~a1xSUMASZ  UCS:	437
	PCSL:  GA <sub>2</sub> ~a1xŠA  CDLI:  GA2~a1xSZA  UCS:	438
	PCSL:  GA <sub>2</sub> ~a1xTI  CDLI:  GA2~a1xTI  UCS:	439
	PCSL:  GA <sub>2</sub> ~a1xU <sub>4</sub>   CDLI:  GA2~a1xU4  UCS:	440
	PCSL:  GA <sub>2</sub> ~a1xX  CDLI:  GA2~a1xX  UCS: • Has a fragmentary or missing portion	441
	PCSL:  GA <sub>2</sub> ~a1x1(N14)  CDLI:  GA2~a1x1(N14)  UCS:	442
	PCSL:  GA <sub>2</sub> ~a1x1(N57)  CDLI:  GA2~a1x1(N57)  UCS:	443

	PCSL:  GA <sub>2</sub> ~a1x3(N57)  CDLI:  GA2~a2x3(N57)  UCS: ☰ PROTO-CUNEIFORM SIGN GA2-A1 TIMES THREE-N57 • CDLI name normalized in PCSL: correct allograph specified	444
	PCSL: GA <sub>2</sub> ~a2 CDLI: GA2~a2 UCS: ☱ PROTO-CUNEIFORM SIGN GA2-A2	445
	PCSL:  GA <sub>2</sub> ~a2xGU <sub>4</sub>   CDLI:  GA2~a2xGU4  UCS: ☲ PROTO-CUNEIFORM SIGN GA2-A2 TIMES GU4	446
	PCSL:  GA <sub>2</sub> ~a2xNI~a  CDLI:  GA2~a2xNI~a  UCS: ☳ PROTO-CUNEIFORM SIGN GA2-A2 TIMES NI-A	447
	PCSL:  GA <sub>2</sub> ~a2xNI~b  CDLI:  GA2~a2xNI~b  UCS: ☴ PROTO-CUNEIFORM SIGN GA2-A2 TIMES NI-B	448
	PCSL:  GA <sub>2</sub> ~a2xSUHUR  CDLI:  GA2~a2xSUHUR  UCS: ☵ PROTO-CUNEIFORM SIGN GA2-A2 TIMES SUHUR	449
	PCSL:  GA <sub>2</sub> ~a2xŠE <sub>3</sub> ~v1  CDLI:  GA2~a2xSZE3  UCS: ☶ PROTO-CUNEIFORM SIGN GA2-A2 TIMES SHE3 VARIANT 1	450
	PCSL:  GA <sub>2</sub> ~a2x(ŠE <sub>3</sub> ~v1.GU <sub>4</sub> )  CDLI:  GA2~a2x(GU4.SZE3)  UCS: ☷ PROTO-CUNEIFORM SIGN GA2-A2 TIMES SHE3 VARIANT 1 PLUS GU4 • CDLI name normalized in PCSL: compound elements reordered • Group inner operator . 'beside' → 'plus' in Unicode name	451
	PCSL:  GA <sub>2</sub> ~a2xX  CDLI:  GA2~a2xX  UCS: ☸ PROTO-CUNEIFORM SIGN GA2-A2 TIMES X • Has a fragmentary or missing portion	452
	PCSL: GA <sub>2</sub> ~a3 CDLI: GA2~a3 UCS: ☹ PROTO-CUNEIFORM SIGN GA2-A3	453

	PCSL:  GA <sub>2</sub> ~a3xX  CDLI:  GA2~a3xX  UCS: ☐ PROTO-CUNEIFORM SIGN GA2-A3 TIMES X • Has a fragmentary or missing portion	454
	PCSL: GA <sub>2</sub> ~a4 CDLI: GA2~a4 UCS: ☐ PROTO-CUNEIFORM SIGN GA2-A4	455
	PCSL: GA <sub>2</sub> ~b CDLI: GA2~b UCS: ☐ PROTO-CUNEIFORM SIGN GA2-B	456
	PCSL:  GA <sub>2</sub> ~bxDUB~a  CDLI:  GA2~bxDUB~a  UCS: ☐ PROTO-CUNEIFORM SIGN GA2-B TIMES DUB-A	457
	PCSL:  GA <sub>2</sub> ~bxDUB~b~v2  CDLI:  GA2~bxDUB~b  UCS: ☐ PROTO-CUNEIFORM SIGN GA2-B TIMES DUB-B VARIANT 2	458
	PCSL:  GA <sub>2</sub> ~bxDU3~a  CDLI:  GA2~bxKU3~a  UCS: ☐ PROTO-CUNEIFORM SIGN GA2-B TIMES KU3-A	459
	PCSL:  GA <sub>2</sub> ~bxZATU659  CDLI:  GA2~bxZATU659  UCS: ☐ PROTO-CUNEIFORM SIGN GA2-B TIMES ZATU659	460
	PCSL: GA <sub>2</sub> ~c CDLI: GA2~c UCS: ☐ PROTO-CUNEIFORM SIGN GA2-C	461
	PCSL: GA'AR~a1 CDLI: GA'AR~a1 UCS: ☐ PROTO-CUNEIFORM SIGN GAAR-A1	462
	PCSL: GA'AR~a2 CDLI: GA'AR~a2 UCS: ☐ PROTO-CUNEIFORM SIGN GAAR-A2	463
	PCSL: GA'AR~b1 CDLI: GA'AR~b1 UCS: ☐ PROTO-CUNEIFORM SIGN GAAR-B1	464

	PCSL: GA' AR~b2 CDLI: GA' AR~b2 UCS: PROTO-CUNEIFORM SIGN GAAR-B2	465
	PCSL: GADA~a CDLI: GADA~a UCS: PROTO-CUNEIFORM SIGN GADA-A	466
	PCSL: GADA~b CDLI: GADA~b UCS: PROTO-CUNEIFORM SIGN GADA-B	467
	PCSL: GADA~b@g CDLI: GADA~b@g UCS: PROTO-CUNEIFORM SIGN GADA-B GUNU	468
	PCSL: GAL~a CDLI: GAL~a UCS: PROTO-CUNEIFORM SIGN GAL-A	469
	PCSL: GAL~b CDLI: GAL~b UCS: PROTO-CUNEIFORM SIGN GAL-B	470
	PCSL: GALGA~a CDLI: GALGA~a UCS: PROTO-CUNEIFORM SIGN GALGA-A	471
	PCSL: GALGA~b CDLI: GALGA~b UCS: PROTO-CUNEIFORM SIGN GALGA-B	472
	PCSL: GAN~a CDLI: GAN~a UCS: PROTO-CUNEIFORM SIGN GAN-A	473
	PCSL: GAN~a~v1 CDLI: GAN~a UCS: PROTO-CUNEIFORM SIGN GAN-A VARIANT 1 • Variant of  GAN~a	474

	PCSL: GAN~b CDLI: GAN~b UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-B	475
	PCSL: GAN~b~v1 CDLI: GAN~b UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-B VARIANT 1 • Variant of  GAN~b	476
	PCSL: GAN~b~v2 CDLI: GAN~b UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-B VARIANT 2 • Variant of  GAN~b	477
	PCSL: GAN~b~v3 CDLI: GAN~b UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-B VARIANT 3 • Variant of  GAN~b	478
	PCSL: GAN~c CDLI: GAN~c UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-C	479
	PCSL:  GAN~cxDIN  CDLI:  GAN~cxDIN  UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-C TIMES DIN	480
	PCSL:  GAN~cxHI  CDLI:  GAN~cxHI  UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-C TIMES HI	481
	PCSL:  GAN~cx(HI.DIN)  CDLI:  GAN~cx(HI.DIN)  UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-C TIMES HI PLUS DIN • Group inner operator . 'beside' → 'plus' in Unicode name	482
	PCSL:  GAN~cxLAGAB~b  CDLI:  GAN~cxLAGAB~b  UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-C TIMES LAGAB-B	483
	PCSL:  GAN~cxNE~a  CDLI:  GAN~cxNE~a  UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-C TIMES NE-A	484

	PCSL:  GAN~c×SIG7  CDLI:  GAN~cxSIG7  UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-C TIMES SIG7	485
	PCSL:  GAN~c×X  CDLI:  GAN~cxX  UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-C TIMES X • Has a fragmentary or missing portion	486
	PCSL: GAN~c~v1 CDLI: GAN~c UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-C VARIANT 1 • Variant of 𒂔 GAN~c	487
	PCSL:  GAN~c~v1×KAŠ~c  CDLI:  GAN~cxKASZ~c  UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-C VARIANT 1 TIMES KASH-C	488
	PCSL:  GAN~c~v1×(KUR~a.A)  CDLI:  GAN~cx(KUR~a.A)  UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-C VARIANT 1 TIMES KUR-A PLUS A • Group inner operator . 'beside' → 'plus' in Unicode name	489
	PCSL:  GAN~c~v1×ZATU777~v1  CDLI:  GAN~cxZATU777  UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-C VARIANT 1 TIMES ZATU777 VARIANT 1	490
	PCSL:  GAN~c~v2×ŠE~a  CDLI:  GAN~cxSZE~a  UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-C VARIANT 2 TIMES SHE-A • Has a compound-only sign: 𒂔 GAN~c~v2	491
	PCSL:  GAN~c~v2×ŠE₃~v1@t  CDLI:  GAN~cxSZE3@t  UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-C VARIANT 2 TIMES SHE3 VARIANT 1 TENU • Has a compound-only sign: 𒂔 GAN~c~v2	492
	PCSL: GAN~d CDLI: GAN~d Unicode status: not proposed due to chronological scope	493
	PCSL:  GAN~d×GEŠTU~a~v2  CDLI:  GAN~dxGESZTU~a  UCS: 𒂔 PROTO-CUNEIFORM SIGN GAN-D TIMES GESHTU-A VARIANT 2	494

	PCSL:  GAN~dxHI  CDLI:  GAN~dxHI  Unicode status: not proposed due to chronological scope	495
	PCSL: GAN <sub>2</sub> CDLI: GAN2 UCS:  PROTO-CUNEIFORM SIGN GAN2	496
	PCSL: GAR CDLI: GAR UCS:  PROTO-CUNEIFORM SIGN GAR	497
	PCSL: GAR@g~a CDLI: GAR@g~a UCS:  PROTO-CUNEIFORM SIGN GAR GUNU-A	498
	PCSL: GAR@g~b CDLI: GAR@g~b UCS:  PROTO-CUNEIFORM SIGN GAR GUNU-B	499
	PCSL: GAR@g~c CDLI: GAR@g~c UCS:  PROTO-CUNEIFORM SIGN GAR GUNU-C	500
	PCSL: GAR <sub>3</sub> CDLI: GAR3 UCS:  PROTO-CUNEIFORM SIGN GAR3	501
	PCSL: GARA <sub>2~a</sub> CDLI: GARA2~a UCS:  PROTO-CUNEIFORM SIGN GARA2-A	502
	PCSL: GARA <sub>2~b</sub> CDLI: GARA2~b UCS:  PROTO-CUNEIFORM SIGN GARA2-B	503
	PCSL: GAZI CDLI: GAZI UCS:  PROTO-CUNEIFORM SIGN GAZI	504
	PCSL: GEŠTIN~a CDLI: GESZTIN~a UCS:  PROTO-CUNEIFORM SIGN GESHTIN-A	505

	PCSL: GEŠTIN~c CDLI: GESZTIN~c Unicode status: not proposed due to chronological scope	506
	PCSL:  GEŠTIN~cxX  CDLI:  GESZTIN~cxX  Unicode status: not proposed due to chronological scope • Has a fragmentary or missing portion	507
	PCSL: GEŠTU~a CDLI: GESZTU~a UCS: 𒂔 PROTO-CUNEIFORM SIGN GESHTU-A	508
	PCSL:  GEŠTU~axŠE~a@t~v1  CDLI:  GESZTU~axSZE~a@t  Unicode status: not proposed due to chronological scope • Has a compound-only sign: 𒀭 ŠE~a@t~v1	509
	PCSL: GEŠTU~a~v1 CDLI: GESZTU~a UCS: 𒂔 PROTO-CUNEIFORM SIGN GESHTU-A VARIANT 1 • Variant of 𒂔 GEŠTU~a	510
	PCSL: GEŠTU~a~v2 CDLI: GESZTU~a UCS: 𒂔 PROTO-CUNEIFORM SIGN GESHTU-A VARIANT 2 • Variant of 𒂔 GEŠTU~a	511
	PCSL: GEŠTU~b CDLI: GESZTU~b UCS: 𒂔 PROTO-CUNEIFORM SIGN GESHTU-B	512
	PCSL: GEŠTU~c3 CDLI: GESZTU~c3 UCS: 𒂔 PROTO-CUNEIFORM SIGN GESHTU-C3	513
	PCSL: GEŠTU~c3~v1 CDLI: GESZTU~c3 UCS: 𒂔 PROTO-CUNEIFORM SIGN GESHTU-C3 VARIANT 1 • Variant of 𒂔 GEŠTU~c3	514
	PCSL: GEŠTU~c5 CDLI: GESZTU~c5 UCS: 𒂔 PROTO-CUNEIFORM SIGN GESHTU-C5	515

	PCSL: GI CDLI: GI UCS: 𒂍 PROTO-CUNEIFORM SIGN GI	516
	PCSL:  GI×KU~b1  CDLI:  GI×KU~b1  UCS: 𒂍𒉿 PROTO-CUNEIFORM SIGN GI TIMES KU-B1	517
	PCSL:  GI×NAM₂  CDLI:  GI×NAM2  UCS: 𒂍𒉿 PROTO-CUNEIFORM SIGN GI TIMES NAM2	518
	PCSL:  GI×SIG₂~d1  CDLI:  GI×SIG2~d1  UCS: 𒂍𒉿 PROTO-CUNEIFORM SIGN GI TIMES SIG2-D1	519
	PCSL:  GI×ŠE₃~v1  CDLI:  GI×SZE3  UCS: 𒂍𒉿 PROTO-CUNEIFORM SIGN GI TIMES SHE3 VARIANT 1	520
	PCSL:  GI×X  CDLI:  GI×X  UCS: 𒂍𒉿 PROTO-CUNEIFORM SIGN GI TIMES X • Has a fragmentary or missing portion	521
	PCSL:  GI×1(N58@t)  CDLI:  GI×1(N58)@t  UCS: 𒂍 PROTO-CUNEIFORM SIGN GI TIMES ONE-N58 TENU • CDLI name normalized in PCSL: modifier notation revised	522
	PCSL:  GI&GI  CDLI:  GI&GI  UCS: 𒂍 PROTO-CUNEIFORM SIGN GI OVER GI	523
	PCSL:  (GI&GI)×GIŠ@t  CDLI:  (GI&GI)×GISZ@t  UCS: 𒂍 PROTO-CUNEIFORM SIGN GI OVER GI TIMES GISH TENU	524
	PCSL:  (GI&GI)×ŠE₃~v1  CDLI:  (GI+&GI)×SZE3  UCS: 𒂍 PROTO-CUNEIFORM SIGN GI OVER GI TIMES SHE3 VARIANT 1 • CDLI name normalized in PCSL: correct compound operator specified	525

	PCSL:  (GI&GI)×X  CDLI:  (GI&GI)×X  UCS:  PROTO-CUNEIFORM SIGN GI OVER GI TIMES X • Has a fragmentary or missing portion	526
	PCSL: GI@t CDLI: GI@t UCS:  PROTO-CUNEIFORM SIGN GI TENU	527
	PCSL: GI~v1 CDLI: GI UCS:  PROTO-CUNEIFORM SIGN GI VARIANT 1 • Variant of  GI	528
	PCSL:  GI~v1×GIŠ@t  CDLI:  GIXGISZ@t  UCS:  PROTO-CUNEIFORM SIGN GI VARIANT 1 TIMES GISH TENU	529
	PCSL:  GI~v1×LAGAB~a  CDLI:  GIXLAGAB~a  UCS:  PROTO-CUNEIFORM SIGN GI VARIANT 1 TIMES LAGAB-A	530
	PCSL:  GI~v1×1(N14)  CDLI:  GIX1(N14)  UCS:  PROTO-CUNEIFORM SIGN GI VARIANT 1 TIMES ONE-N14	531
	PCSL:  GI~v1&GI~v1&GI~v1  CDLI:  GI&GI&GI  UCS:  PROTO-CUNEIFORM SIGN GI VARIANT 1 OVER GI VARIANT 1 OVER GI VARIANT 1	532
	PCSL: GI <sub>4</sub> ~a CDLI: GI4~a UCS:  PROTO-CUNEIFORM SIGN GI4-A	533
	PCSL:  GI <sub>4</sub> ~a×A  CDLI:  GI4~a×A  UCS:  PROTO-CUNEIFORM SIGN GI4-A TIMES A	534
	PCSL:  GI <sub>4</sub> ~a&GI <sub>4</sub> ~a  CDLI:  GI4~a&GI4~a  UCS:  PROTO-CUNEIFORM SIGN GI4-A OVER GI4-A	535

	PCSL: GI <sub>4</sub> ~b CDLI: GI4~b UCS: ➜ PROTO-CUNEIFORM SIGN GI4-B	536
	PCSL:  GI <sub>4</sub> ~b&GI <sub>4</sub> ~b  CDLI:  GI4~b&GI4~b  UCS: ➜ PROTO-CUNEIFORM SIGN GI4-B OVER GI4-B	537
	PCSL: GI <sub>6</sub> CDLI: GI6 UCS: ➜ PROTO-CUNEIFORM SIGN GI6	538
	PCSL: GI <sub>6</sub> ~v1 CDLI: GI6 UCS: ➜ PROTO-CUNEIFORM SIGN GI6 VARIANT 1 • Variant of ➜ GI <sub>6</sub>	539
	PCSL: GIBIL CDLI: GIBIL UCS: ➜ PROTO-CUNEIFORM SIGN GIBIL	540
	PCSL: GIBIL@t CDLI: GIBIL@t UCS: ➜ PROTO-CUNEIFORM SIGN GIBIL TENU	541
	PCSL: GIBIL <sub>6</sub> CDLI: GIBIL6 UCS: ➜ PROTO-CUNEIFORM SIGN GIBIL6	542
	PCSL: GIG CDLI: GIG Unicode status: not proposed due to chronological scope	543
	PCSL: GIL CDLI: GIL Unicode status: not proposed due to chronological scope	544
	PCSL: GIR~a CDLI: GIR~a UCS: ➜ PROTO-CUNEIFORM SIGN GIR-A	545



PCSL: |GIR~a.KU<sub>6</sub>~a|  
 CDLI: |GIR~a.KU6~a|  
 UCS: ☈ PROTO-CUNEIFORM SIGN GIR-A BESIDE KU6-A



PCSL: GIR~b  
 CDLI: GIR~b  
 UCS: ☉ PROTO-CUNEIFORM SIGN GIR-B



PCSL: GIR~b~v1  
 CDLI: GIR~b  
 UCS: ☊ PROTO-CUNEIFORM SIGN GIR-B VARIANT 1  
 • Variant of ☉ GIR~b



PCSL: |GIR~b~v1.GIR~b~v1|  
 CDLI: |GIR~b.GIR~b|  
 UCS: ☋ PROTO-CUNEIFORM SIGN GIR-B VARIANT 1 BESIDE GIR-B VARIANT 1



PCSL: GIR~c  
 CDLI: GIR~c  
 UCS: ☌ PROTO-CUNEIFORM SIGN GIR-C



PCSL: GIR~d  
 CDLI: GIR~d  
 UCS: ☍ PROTO-CUNEIFORM SIGN GIR-D



PCSL: GIR<sub>2</sub>~a  
 CDLI: GIR2~a  
 UCS: ☎ PROTO-CUNEIFORM SIGN GIR2-A



PCSL: GIR<sub>2</sub>~b  
 CDLI: GIR2~b  
 UCS: ☏ PROTO-CUNEIFORM SIGN GIR2-B



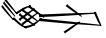
PCSL: GIR<sub>3</sub>~a  
 CDLI: GIR3~a  
 UCS: ☐ PROTO-CUNEIFORM SIGN GIR3-A



PCSL: |GIR<sub>3</sub>~axSZE~b|  
 CDLI: |GIR3~axSZE~b|  
 UCS: ☑ PROTO-CUNEIFORM SIGN GIR3-A TIMES SHE-B

	PCSL: GIR <sub>3</sub> ~b CDLI: GIR3~b UCS: ☈ PROTO-CUNEIFORM SIGN GIR3-B	556
	PCSL: GIR <sub>3</sub> ~c CDLI: GIR3~c UCS: ☉ PROTO-CUNEIFORM SIGN GIR3-C	557
	PCSL:  GIR <sub>3</sub> ~c×KAR <sub>2</sub> ~b  CDLI:  GIR3~cxKAR2  UCS: ☋ PROTO-CUNEIFORM SIGN GIR3-C TIMES KAR2-B	558
	PCSL:  GIR <sub>3</sub> ~c×ŠE <sub>3</sub> ~v1  CDLI:  GIR3~cxSZE3  UCS: ☌ PROTO-CUNEIFORM SIGN GIR3-C TIMES SHE3 VARIANT 1	559
	PCSL: GIR <sub>3</sub> @g~a CDLI: GIR3@g~a UCS: ☍ PROTO-CUNEIFORM SIGN GIR3 GUNU-A	560
	PCSL: GIR <sub>3</sub> @g~b CDLI: GIR3@g~b UCS: ☎ PROTO-CUNEIFORM SIGN GIR3 GUNU-B	561
	PCSL: GIR <sub>3</sub> @g~c CDLI: GIR3@g~c UCS: ☏ PROTO-CUNEIFORM SIGN GIR3 GUNU-C	562
	PCSL: GIR <sub>4</sub> CDLI: GIR4 Unicode status: not proposed due to chronological scope	563
	PCSL: GISAL~a CDLI: GISAL~a UCS: ☐ PROTO-CUNEIFORM SIGN GISAL-A	564
	PCSL: GISAL~b CDLI: GISAL~b UCS: ☑ PROTO-CUNEIFORM SIGN GISAL-B	565
	PCSL: GIŠ CDLI: GISZ UCS: ☒ PROTO-CUNEIFORM SIGN GISH	566

	PCSL:  GIŠ.TE  CDLI:  GISZ.TE  UCS: ☠ PROTO-CUNEIFORM SIGN GISH BESIDE TE	567
	PCSL:  (GIŠx(DIN.DIN))~a  CDLI:  (GISZx(DIN.DIN))~a  UCS: ☡ PROTO-CUNEIFORM SIGN GISH TIMES DIN PLUS DIN FORM A • Group inner operator . 'beside' → 'plus' in Unicode name	568
	PCSL:  (GIŠx(DIN.DIN))~b  CDLI:  (GISZx(DIN.DIN))~b  UCS: ☢ PROTO-CUNEIFORM SIGN GISH TIMES DIN PLUS DIN FORM B • Group inner operator . 'beside' → 'plus' in Unicode name	569
	PCSL:  (GIŠx(DIN.DIN))~c  CDLI:  (GISZx(DIN.DIN))~c  UCS: ☣ PROTO-CUNEIFORM SIGN GISH TIMES DIN PLUS DIN FORM C • Group inner operator . 'beside' → 'plus' in Unicode name	570
	PCSL:  GIŠxŠU₂~a  CDLI:  GISZxSZU2~a  UCS: ☤ PROTO-CUNEIFORM SIGN GISH TIMES SHU2-A	571
	PCSL:  GIŠxŠU₂~b  CDLI:  GISZxSZU2~b  UCS: ☥ PROTO-CUNEIFORM SIGN GISH TIMES SHU2-B	572
	PCSL: GIŠ@t CDLI: GISZ@t UCS: ☦ PROTO-CUNEIFORM SIGN GISH TENU	573
	PCSL:  GIŠ@t.E₂~a  CDLI:  GISZ@t.E2~a  Unicode status: not proposed due to chronological scope	574
	PCSL: GIŠ~v CDLI: GISZ~x Unicode status: not proposed due to chronological scope	575
	PCSL: GIŠ₃~a CDLI: GISZ3~a UCS: ☨ PROTO-CUNEIFORM SIGN GISH3-A	576

	PCSL:  GIŠ <sub>3</sub> ~a&GIŠ <sub>3</sub> ~a  CDLI:  GISZ3~a&GISZ3~a  UCS: ☈ PROTO-CUNEIFORM SIGN GISH3-A OVER GISH3-A	577
	PCSL: GIŠ <sub>3</sub> ~b CDLI: GISZ3~b UCS: ☉ PROTO-CUNEIFORM SIGN GISH3-B	578
	PCSL: GIŠGAL CDLI: GISZGAL UCS: ☋ PROTO-CUNEIFORM SIGN GISHGAL	579
	PCSL: GIŠGAL~v1 CDLI: GISZGAL UCS: ☌ PROTO-CUNEIFORM SIGN GISHGAL VARIANT 1 • Variant of ☋ GIŠGAL	580
	PCSL: GIŠIMMAR~a1 CDLI: GISZIMMAR~a1 UCS: ☍ PROTO-CUNEIFORM SIGN GISHIMMAR-A1	581
	PCSL: GIŠIMMAR~a2 CDLI: GISZIMMAR~a2 UCS: ☎ PROTO-CUNEIFORM SIGN GISHIMMAR-A2	582
	PCSL: GIŠIMMAR~a3 CDLI: GISZIMMAR~a3 UCS: ☏ PROTO-CUNEIFORM SIGN GISHIMMAR-A3	583
	PCSL: GIŠIMMAR~b1 CDLI: GISZIMMAR~b1 UCS: ☐ PROTO-CUNEIFORM SIGN GISHIMMAR-B1	584
	PCSL: GIŠIMMAR~b1~v1 CDLI: GISZIMMAR~b1 UCS: ☑ PROTO-CUNEIFORM SIGN GISHIMMAR-B1 VARIANT 1 • Variant of ☐ GIŠIMMAR~b1	585
	PCSL: GIŠIMMAR~b1~v2 CDLI: GISZIMMAR~b1 UCS: ☒ PROTO-CUNEIFORM SIGN GISHIMMAR-B1 VARIANT 2 • Variant of ☐ GIŠIMMAR~b1	586

	PCSL: GIŠIMMAR~b3 CDLI: GISZIMMAR~b3 UCS:  PROTO-CUNEIFORM SIGN GISHIMMAR-B3	587
	PCSL: GIZZAL~v CDLI: GIZZAL~x UCS:  PROTO-CUNEIFORM SIGN GIZZAL-V	588
	PCSL: GU CDLI: GU UCS:  PROTO-CUNEIFORM SIGN GU	589
	PCSL: GU <sub>2</sub> CDLI: GU2 UCS:  PROTO-CUNEIFORM SIGN GU2	590
	PCSL: GU <sub>4</sub> CDLI: GU4 UCS:  PROTO-CUNEIFORM SIGN GU4	591
	PCSL:  GU <sub>4</sub> .ZATU755~b  CDLI:  GU4.ZATU755~a  UCS:  PROTO-CUNEIFORM SIGN GU4 BESIDE ZATU755-B	592
	PCSL: GU <sub>4</sub> @g CDLI: GU4@g UCS:  PROTO-CUNEIFORM SIGN GU4 GUNU	593
	PCSL: GU <sub>4</sub> ~v1 CDLI: GU4 UCS:  PROTO-CUNEIFORM SIGN GU4 VARIANT 1 • Variant of  GU <sub>4</sub>	594
	PCSL: GU <sub>7</sub> CDLI: GU7 UCS:  PROTO-CUNEIFORM SIGN GU7	595
	PCSL: GU <sub>7</sub> ~v1 CDLI: GU7 UCS:  PROTO-CUNEIFORM SIGN GU7 VARIANT 1 • Variant of  GU <sub>7</sub>	596

	PCSL: GUB <sub>3</sub> ~a CDLI: GUB3~a UCS:  PROTO-CUNEIFORM SIGN GUB3-A	597
	PCSL: GUB <sub>3</sub> ~b CDLI: GUB3~b UCS:  PROTO-CUNEIFORM SIGN GUB3-B	598
	PCSL: GUB <sub>3</sub> ~c CDLI: GUB3~c UCS:  PROTO-CUNEIFORM SIGN GUB3-C	599
	PCSL: GUB <sub>3</sub> ~d CDLI: GUB3~d UCS:  PROTO-CUNEIFORM SIGN GUB3-D	600
	PCSL: GUG <sub>2</sub> CDLI: GUG2 UCS:  PROTO-CUNEIFORM SIGN GUG2	601
	PCSL: GUG <sub>2</sub> @t CDLI: GUG2@t UCS:  PROTO-CUNEIFORM SIGN GUG2 TENU	602
	PCSL: GUG <sub>2</sub> ~v1 CDLI: GUG2 UCS:  PROTO-CUNEIFORM SIGN GUG2 VARIANT 1 • Variant of  GUG <sub>2</sub>	603
	PCSL:  GUG <sub>2</sub> ~v1xSILA <sub>3</sub> ~a  CDLI:  GUG2xSILA3~a  UCS:  PROTO-CUNEIFORM SIGN GUG2 VARIANT 1 TIMES SILA3-A	604
	PCSL:  GUG <sub>2</sub> ~v1xSITa~a1  CDLI:  GUG2xSITa~a1	605
	PCSL:  GUG <sub>2</sub> ~v1xTUR~v1  CDLI:  GUG2xTUR  UCS:  PROTO-CUNEIFORM SIGN GUG2 VARIANT 1 TIMES TUR VARIANT 1	606
	PCSL: GUUKKAL~a CDLI: GUUKKAL~a UCS:  PROTO-CUNEIFORM SIGN GUUKKAL-A	607

	PCSL:  GUUKKAL~a.HI@g~a  CDLI:  GUUKKAL~a.HI@g~a  UCS:  PROTO-CUNEIFORM SIGN GUUKKAL-A BESIDE HI GUNU-A	608
	PCSL: GUUKKAL~b CDLI: GUUKKAL~b UCS:  PROTO-CUNEIFORM SIGN GUUKKAL-B	609
	PCSL: GUUKKAL~c CDLI: GUUKKAL~c UCS:  PROTO-CUNEIFORM SIGN GUUKKAL-C	610
	PCSL: GUUKKAL~d CDLI: GUUKKAL~d UCS:  PROTO-CUNEIFORM SIGN GUUKKAL-D	611
	PCSL: GUL CDLI: GUL UCS:  PROTO-CUNEIFORM SIGN GUL	612
	PCSL: GUM~a CDLI: GUM~a UCS:  PROTO-CUNEIFORM SIGN GUM-A	613
	PCSL: GUM~b CDLI: GUM~b UCS:  PROTO-CUNEIFORM SIGN GUM-B	614
	PCSL: GUM~b@n CDLI: GUM~b@n UCS:  PROTO-CUNEIFORM SIGN GUM-B NUTILLU	615
	PCSL: GUM~b@n~v1 CDLI: GUM~b@n UCS:  PROTO-CUNEIFORM SIGN GUM-B NUTILLU VARIANT 1 • Variant of  GUM~b@n	616
	PCSL: GUM~b~v1 CDLI: GUM~b UCS:  PROTO-CUNEIFORM SIGN GUM-B VARIANT 1 • Variant of  GUM~b	617

	PCSL: GUN <sub>3</sub> ~a CDLI: GUN3~a UCS:  PROTO-CUNEIFORM SIGN GUN3-A	618
	PCSL: GUN <sub>3</sub> ~b CDLI: GUN3~b UCS:  PROTO-CUNEIFORM SIGN GUN3-B	619
	PCSL: GUR CDLI: GUR UCS:  PROTO-CUNEIFORM SIGN GUR	620
	PCSL: GURUŠ~a CDLI: GURUSZ~a UCS:  PROTO-CUNEIFORM SIGN GURUSH-A	621
	PCSL:  GURUŠ~a×2(N14)  CDLI:  GURUSZ~ax2(N14)  UCS:  PROTO-CUNEIFORM SIGN GURUSH-A TIMES TWO-N14	622
	PCSL: GURUŠ~a~v1 CDLI: GURUSZ~a UCS:  PROTO-CUNEIFORM SIGN GURUSH-A VARIANT 1 • Variant of  GURUŠ~a	623
	PCSL: GURUŠ~b CDLI: GURUSZ~b UCS:  PROTO-CUNEIFORM SIGN GURUSH-B	624
	PCSL:  GURUŠ~b×2(N14)  CDLI:  GURUSZ~bx2(N14)  UCS:  PROTO-CUNEIFORM SIGN GURUSH-B TIMES TWO-N14	625
	PCSL:  GURUŠ~c×2(N14)  CDLI:  GURUSZ~cx2(N14)  UCS:  PROTO-CUNEIFORM SIGN GURUSH-C TIMES TWO-N14 • Has a compound-only sign:  GURUŠ~c	626
	PCSL: GURUŠDA CDLI: GURUSZDA UCS:  PROTO-CUNEIFORM SIGN GURUSHDA	627

	PCSL: HAL CDLI: HAL UCS: ✕ PROTO-CUNEIFORM SIGN HAL	628
	PCSL: HALUB CDLI: HALUB UCS: 📖 PROTO-CUNEIFORM SIGN HALUB	629
	PCSL: HAŠHUR CDLI: HASZHUR UCS: ܚܻ PROTO-CUNEIFORM SIGN HASHHUR	630
	PCSL:  HAŠHUR×MA  CDLI:  HASZHURxMA  UCS: ܚܻܻ PROTO-CUNEIFORM SIGN HASHHUR TIMES MA	631
	PCSL: HI CDLI: HI UCS: ܵ PROTO-CUNEIFORM SIGN HI	632
	PCSL:  HI.SUHUR  CDLI:  HI.SUHUR  UCS: ܸܵ PROTO-CUNEIFORM SIGN HI BESIDE SUHUR • Glyph changed to ܸܵ from ܸܸܵ	633
	PCSL:  HI.SUHUR~v1  CDLI:  HI.SUHUR  UCS: ܸܵ PROTO-CUNEIFORM SIGN HI BESIDE SUHUR VARIANT 1 • Variant of ܸܵ  HI.SUHUR  • Has a compound-only sign: ܸܸ SUHUR~v1	634
	PCSL:  HI.SUHUR~v2  CDLI:  HI.SUHUR  UCS: ܸܵ PROTO-CUNEIFORM SIGN HI BESIDE SUHUR VARIANT 2 • Glyph changed to ܸܵ from ܸܸܵ • Variant of ܸܵ  HI.SUHUR  • Has a compound-only sign: ܸܸ SUHUR~v2	635
	PCSL:  HI×LAGAB~a  CDLI:  HI×LAGAB~a  UCS: ܸܸܸܸܵ PROTO-CUNEIFORM SIGN HI TIMES LAGAB-A	636
	PCSL:  HI×ŠE₃~v1@t  CDLI:  HIxSZE3@t  Unicode status: not proposed due to chronological scope	637

	PCSL:  HI×ZATU707~a  CDLI:  HI×ZATU707~a  UCS: ◇ PROTO-CUNEIFORM SIGN HI TIMES ZATU707-A	638
	PCSL:  HI×1(N01@f)  CDLI:  HI×1(N01)F  Unicode status: not proposed due to chronological scope • CDLI name normalized in PCSL: modifier notation revised	639
	PCSL:  HI×1(N57)  CDLI:  HI×1(N57)  UCS: ◇ PROTO-CUNEIFORM SIGN HI TIMES ONE-N57	640
	PCSL:  (HI×1(N57)).(HI×1(N57))  CDLI:  (HI×1(N57))&(HI+1(N57))  UCS: ◇◇ PROTO-CUNEIFORM SIGN HI TIMES ONE-N57 BESIDE HI TIMES ONE-N57 • CDLI name normalized in PCSL: correct compound operator specified	641
	PCSL:  HI×1(N57@t)  CDLI:  HI×1(N57)@t  UCS: ◇ PROTO-CUNEIFORM SIGN HI TIMES ONE-N57 TENU • CDLI name normalized in PCSL: modifier notation revised • Has a compound-only sign: ∕ 1(N57@t)	642
	PCSL:  HI×1(N58)  CDLI:  HI×1(N58)  UCS: ◇ PROTO-CUNEIFORM SIGN HI TIMES ONE-N58	643
	PCSL: HI@g~a CDLI: HI@g~a UCS: ◇ PROTO-CUNEIFORM SIGN HI GUNU-A	644
	PCSL: HI@g~b CDLI: HI@g~b UCS: ◇ PROTO-CUNEIFORM SIGN HI GUNU-B	645
	PCSL: HI@g~c CDLI: HI@g~c UCS: ◇ PROTO-CUNEIFORM SIGN HI GUNU-C	646
	PCSL: HUB <sub>2</sub> CDLI: HUB2 Unicode status: not proposed due to chronological scope	647

	PCSL: I CDLI: I UCS: 〓= PROTO-CUNEIFORM SIGN I	648
	PCSL: IB~a CDLI: IB~a UCS: 𒂔 PROTO-CUNEIFORM SIGN IB-A	649
	PCSL: IB~a@n CDLI: IB~a@n UCS: 𒂔 PROTO-CUNEIFORM SIGN IB-A NUTILLU	650
	PCSL: IB~b CDLI: IB~b UCS: 𒂔 PROTO-CUNEIFORM SIGN IB-B	651
	PCSL: IDIGNA CDLI: IDIGNA UCS: 𒀭 PROTO-CUNEIFORM SIGN IDIGNA	652
	PCSL: IDIGNA~v1 CDLI: IDIGNA UCS: 𒀭 PROTO-CUNEIFORM SIGN IDIGNA VARIANT 1 • Variant of 𒀭 IDIGNA	653
	PCSL: IG~a CDLI: IG~a UCS: 𒄑 PROTO-CUNEIFORM SIGN IG-A	654
	PCSL: IG~b CDLI: IG~b UCS: 𒄑 PROTO-CUNEIFORM SIGN IG-B	655
	PCSL: IGI CDLI: IGI Unicode status: not proposed due to chronological scope	656
	PCSL: IL CDLI: IL UCS: 𒄑 PROTO-CUNEIFORM SIGN IL	657
	PCSL: ILDUM~a CDLI: ILDUM~a UCS: 𒄑 PROTO-CUNEIFORM SIGN ILDUM-A	658

	PCSL: ILDUM~b CDLI: ILDUM~b UCS: 𒂗 PROTO-CUNEIFORM SIGN ILDUM-B	659
	PCSL: IM~a CDLI: IM~a UCS: 𒂑 PROTO-CUNEIFORM SIGN IM-A	660
	PCSL: IM~a@g CDLI: IM~a@g Unicode status: not proposed due to chronological scope	661
	PCSL: IM~b CDLI: IM~b UCS: 𒂑 PROTO-CUNEIFORM SIGN IM-B	662
	PCSL: IN~b CDLI: IN~b UCS: 𒂔 PROTO-CUNEIFORM SIGN IN-B	663
	PCSL: IN~b~v1 CDLI: IN~b UCS: 𒂔 PROTO-CUNEIFORM SIGN IN-B VARIANT 1 • Variant of 𒂔 IN~b	664
	PCSL: IN~d CDLI: IN~d UCS: 𒂔 PROTO-CUNEIFORM SIGN IN-D	665
	PCSL: IR~a CDLI: IR~a UCS: 𒂔 PROTO-CUNEIFORM SIGN IR-A	666
	PCSL:  IR~a.GA2~a1  CDLI:  IR~a.GA2~a1  UCS: 𒂔 PROTO-CUNEIFORM SIGN IR-A BESIDE GA2-A1	667
	PCSL: IR~b CDLI: IR~b UCS: 𒂔 PROTO-CUNEIFORM SIGN IR-B	668

	PCSL: IR~c CDLI: IR~c UCS: 𒂔 PROTO-CUNEIFORM SIGN IR-C	669
	PCSL: IR~d CDLI: IR~d UCS: 𒂕 PROTO-CUNEIFORM SIGN IR-D	670
	PCSL: IR <sub>11</sub> CDLI: IR11 UCS: 𒂗 PROTO-CUNEIFORM SIGN IR11	671
	PCSL: IR <sub>11</sub> ~v1 CDLI: IR11 UCS: 𒂗  PROTOW-CUNEIFORM SIGN IR11 VARIANT 1 • Variant of 𒂗 IR <sub>11</sub>	672
	PCSL: IRHAN CDLI: IRHAN UCS: 𒀭  PROTO-CUNEIFORM SIGN IRHAN	673
	PCSL: IŠ~a CDLI: ISZ~a UCS: 𒂘  PROTO-CUNEIFORM SIGN ISH-A	674
	PCSL: IŠ~a~v1 CDLI: ISZ~a UCS: 𒂘  PROTO-CUNEIFORM SIGN ISH-A VARIANT 1 • Variant of 𒂘 IŠ~a	675
	PCSL: IŠ~b CDLI: ISZ~b UCS: 𒂘  PROTO-CUNEIFORM SIGN ISH-B • Glyph changed to 𒂘 from 𒂘	676
	PCSL: IŠ~b~v1 CDLI: ISZ~b UCS: 𒂘  PROTO-CUNEIFORM SIGN ISH-B VARIANT 1 • Glyph changed to 𒂘 from 𒂘 • Variant of 𒂘 IŠ~b	677
	PCSL: IŠ~b~v2 CDLI: ISZ~b UCS: 𒂘  PROTO-CUNEIFORM SIGN ISH-B VARIANT 2 • Variant of 𒂘 IŠ~b	678

	PCSL: IS~b~v3 CDLI: ISZ~b UCS: 𒂔  PROTÓ-CUNEIFORM SIGN ISH-B VARIANT 3 • Variant of  IS~b	679
	PCSL: IS~b~v4 CDLI: ISZ~b UCS: 𒂔  PROTÓ-CUNEIFORM SIGN ISH-B VARIANT 4 • Variant of  IS~b	680
	PCSL: IS~b~v5 CDLI: ISZ~b UCS: 𒂔  PROTÓ-CUNEIFORM SIGN ISH-B VARIANT 5 • Variant of  IS~b	681
	PCSL: IS~c CDLI: ISZ~c UCS: 𒂔  PROTÓ-CUNEIFORM SIGN ISH-C	682
	PCSL: KA~a CDLI: KA~a UCS: 𒂈  PROTÓ-CUNEIFORM SIGN KA-A	683
	PCSL:   KA~a×SAR~a   CDLI:   KA~a×SAR~a   UCS: 𒂈  PROTÓ-CUNEIFORM SIGN KA-A TIMES SAR-A	684
	PCSL:   KA~a~v1.ŠE~a   CDLI:   KA~a .SZE~a   UCS: 𒂈  PROTÓ-CUNEIFORM SIGN KA-A VARIANT 1 BESIDE SHE-A • Has a compound-only sign:  KA~a~v1	685
	PCSL:   KA~a~v2.ŠE~a@t   CDLI:   KA~a .SZE~a   UCS: 𒂈  PROTÓ-CUNEIFORM SIGN KA-A VARIANT 2 BESIDE SHE-A TENU • Variant of    KA~a~v1.ŠE~a   • Has a compound-only sign:  KA~a~v2	686
	PCSL: KA <sub>2</sub> ~a CDLI: KA2~a UCS: 𒂈  PROTÓ-CUNEIFORM SIGN KA2-A	687

	PCSL: KA <sub>2</sub> ~b CDLI: KA2~b UCS:  PROTO-CUNEIFORM SIGN KA2-B	688
	PCSL: KA <sub>2</sub> ~c CDLI: KA2~c UCS:  PROTO-CUNEIFORM SIGN KA2-C	689
	PCSL: KA <sub>2</sub> ~d CDLI: KA2~d Unicode status: not proposed due to chronological scope	690
	PCSL:  KA <sub>2</sub> ~d×LAM~b~v2  CDLI:  KA2xLAM  UCS:  PROTO-CUNEIFORM SIGN KA2-D TIMES LAM-B VARIANT 2 • Glyph changed to  from 	691
	PCSL: KAB CDLI: KAB UCS:  PROTO-CUNEIFORM SIGN KAB	692
	PCSL:  KAB×1(N58)  CDLI:  KABx1(N58)  UCS:  PROTO-CUNEIFORM SIGN KAB TIMES ONE-N58	693
	PCSL: KAD <sub>4</sub> ~a CDLI: KAD4~a UCS:  PROTO-CUNEIFORM SIGN KAD4-A	694
	PCSL: KAD <sub>4</sub> ~b CDLI: KAD4~b UCS:  PROTO-CUNEIFORM SIGN KAD4-B	695
	PCSL: KAD <sub>4</sub> ~c1 CDLI: KAD4~c1 UCS:  PROTO-CUNEIFORM SIGN KAD4-C1	696
	PCSL: KAD <sub>4</sub> ~c2 CDLI: KAD4~c2 UCS:  PROTO-CUNEIFORM SIGN KAD4-C2	697
	PCSL: KAK~a CDLI: KAK~a UCS:  PROTO-CUNEIFORM SIGN KAK-A	698

	PCSL:  KAK~a.GA₂~a₁  CDLI:  KAK~a.GA₂~a₁  UCS: ☈ PROTO-CUNEIFORM SIGN KAK-A BESIDE GA₂-A₁	699
	PCSL: KAK~b CDLI: KAK~b UCS: ☉ PROTO-CUNEIFORM SIGN KAK-B	700
	PCSL: KAL~a CDLI: KAL~a UCS: ☊ PROTO-CUNEIFORM SIGN KAL-A	701
	PCSL: KAL~b₁ CDLI: KAL~b₁ UCS: ☋ PROTO-CUNEIFORM SIGN KAL-B₁	702
	PCSL: KAL~b₁~v₁ CDLI: KAL~b₁ UCS: ☌ PROTO-CUNEIFORM SIGN KAL-B₁ VARIANT 1 • Variant of ☋ KAL~b₁	703
	PCSL: KAL~b₂ CDLI: KAL~b₂ UCS: ☍ PROTO-CUNEIFORM SIGN KAL-B₂	704
	PCSL: KALAM~a CDLI: KALAM~a UCS: ☎ PROTO-CUNEIFORM SIGN KALAM-A	705
	PCSL: KALAM~b CDLI: KALAM~b UCS: ☏ PROTO-CUNEIFORM SIGN KALAM-B	706
	PCSL: KALAM~c CDLI: KALAM~c UCS: ☐ PROTO-CUNEIFORM SIGN KALAM-C	707
	PCSL: KALAM~d CDLI: KALAM~d UCS: ☑ PROTO-CUNEIFORM SIGN KALAM-D	708
	PCSL: KALAM~e CDLI: KALAM~e UCS: ☒ PROTO-CUNEIFORM SIGN KALAM-E	709

	PCSL: KALAM~f CDLI: KALAM~f UCS:  PROTO-CUNEIFORM SIGN KALAM-F	710
	PCSL: KAR CDLI: KAR UCS:  PROTO-CUNEIFORM SIGN KAR	711
	PCSL: KAR <sub>2</sub> ~a CDLI: KAR2~a UCS:  PROTO-CUNEIFORM SIGN KAR2-A	712
	PCSL: KAR <sub>2</sub> ~b CDLI: KAR2~b UCS:  PROTO-CUNEIFORM SIGN KAR2-B	713
	PCSL: KASKAL CDLI: KASKAL UCS:  PROTO-CUNEIFORM SIGN KASKAL	714
	PCSL: KASKAL@g CDLI: KASKAL@g UCS:  PROTO-CUNEIFORM SIGN KASKAL GUNU	715
	PCSL: KAŠ~a CDLI: KASZ~a UCS:  PROTO-CUNEIFORM SIGN KASH-A	716
	PCSL: KAŠ~a~v1 CDLI: KASZ~a UCS:  PROTO-CUNEIFORM SIGN KASH-A VARIANT 1 • Variant of  KAŠ~a	717
	PCSL: KAŠ~b CDLI: KASZ~b UCS:  PROTO-CUNEIFORM SIGN KASH-B	718
	PCSL: KAŠ~b@t CDLI: KASZ~b@t UCS:  PROTO-CUNEIFORM SIGN KASH-B TENU	719

	PCSL: KAŠ~b~v1 CDLI: KASZ~b UCS:  PROTO-CUNEIFORM SIGN KASH-B VARIANT 1 • Variant of  KAŠ~b	720
	PCSL:   KAŠ~b~v1xŠE~a@t~v1  CDLI:  KASZ~bxSZE~a  UCS:  PROTO-CUNEIFORM SIGN KASH-B VARIANT 1 TIMES SHE-A TENU VARIANT 1 • Has a compound-only sign:  ŠE~a@t~v1	721
	PCSL: KAŠ~c CDLI: KASZ~c UCS:  PROTO-CUNEIFORM SIGN KASH-C	722
	PCSL: KAŠ~d CDLI: KASZ~d UCS:  PROTO-CUNEIFORM SIGN KASH-D	723
	PCSL: KEŠ₂ CDLI: KESZ2 Unicode status: not proposed due to chronological scope	724
	PCSL: KI CDLI: KI UCS:  PROTO-CUNEIFORM SIGN KI	725
	PCSL: KI@n CDLI: KI@n UCS:  PROTO-CUNEIFORM SIGN KI NUTILLU	726
	PCSL:   KI@nxDUB~a   CDLI:   KI@nxDUB~a   UCS:  PROTO-CUNEIFORM SIGN KI NUTILLU TIMES DUB-A	727
	PCSL: KIB CDLI: KIB UCS:  PROTO-CUNEIFORM SIGN KIB	728
	PCSL: KIB@g CDLI: KIB@g UCS:  PROTO-CUNEIFORM SIGN KIB GUNU	729

	PCSL: KID~a CDLI: KID~a UCS:  PROTO-CUNEIFORM SIGN KID-A	730
	PCSL: KID~b CDLI: KID~b UCS:  PROTO-CUNEIFORM SIGN KID-B	731
	PCSL: KID~c CDLI: KID~c UCS:  PROTO-CUNEIFORM SIGN KID-C	732
	PCSL: KID~d CDLI: KID~d UCS:  PROTO-CUNEIFORM SIGN KID-D	733
	PCSL: KID~e CDLI: KID~e UCS:  PROTO-CUNEIFORM SIGN KID-E	734
	PCSL: KIN CDLI: KIN UCS:  PROTO-CUNEIFORM SIGN KIN	735
	PCSL: KIN <sub>2</sub> ~a CDLI: KIN2~a UCS:  PROTO-CUNEIFORM SIGN KIN2-A	736
	PCSL: KIN <sub>2</sub> ~c CDLI: KIN2~c UCS:  PROTO-CUNEIFORM SIGN KIN2-C	737
	PCSL: KIN <sub>2</sub> ~d CDLI: KIN2~d UCS:  PROTO-CUNEIFORM SIGN KIN2-D	738
	PCSL: KIN <sub>2</sub> ~e CDLI: KIN2~e UCS:  PROTO-CUNEIFORM SIGN KIN2-E	739
	PCSL: KINGAL CDLI: KINGAL UCS:  PROTO-CUNEIFORM SIGN KINGAL	740

	PCSL: KINGAL~v1 CDLI: KINGAL UCS: 𒂗 PROTO-CUNEIFORM SIGN KINGAL VARIANT 1 • Variant of 𒂗 KINGAL	741
	PCSL: KIR <sub>11</sub> CDLI: KIR11 UCS: 𒉾 PROTO-CUNEIFORM SIGN KIR11	742
	PCSL: KISAL~a1 CDLI: KISAL~a1 UCS: 𒆠 PROTO-CUNEIFORM SIGN KISAL-A1	743
	PCSL: KISAL~a2 CDLI: KISAL~a2 UCS: 𒆡 PROTO-CUNEIFORM SIGN KISAL-A2	744
	PCSL: KISAL~b1 CDLI: KISAL~b1 UCS: 𒆢 PROTO-CUNEIFORM SIGN KISAL-B1	745
	PCSL: KISAL~b2 CDLI: KISAL~b2 UCS: 𒆣 PROTO-CUNEIFORM SIGN KISAL-B2	746
	PCSL: KISAL~b2@t CDLI: KISAL~b2@t UCS: 𒆤 PROTO-CUNEIFORM SIGN KISAL-B2 TENU	747
	PCSL: KISAL~b3 CDLI: KISAL~b3 UCS: 𒆥 PROTO-CUNEIFORM SIGN KISAL-B3	748
	PCSL: KISIM~a CDLI: KISIM~a UCS: 𒆧 PROTO-CUNEIFORM SIGN KISIM-A	749
	PCSL: KISIM~b CDLI: KISIM~b UCS: 𒆨 PROTO-CUNEIFORM SIGN KISIM-B	750

(KISIM~b)	PCSL: KISIM~b~v1 CDLI: KISIM~b UCS: 𒂔 PROTO-CUNEIFORM SIGN KISIM-B VARIANT 1 • Variant of  KISIM~b	751
(KISIM~b~v2)	PCSL: KISIM~b~v2 CDLI: KISIM~b UCS: 𒂔 PROTO-CUNEIFORM SIGN KISIM-B VARIANT 2 • Variant of  KISIM~b	752
(KISIM~b~v3)	PCSL: KISIM~b~v3 CDLI: KISIM~b UCS: 𒂔 PROTO-CUNEIFORM SIGN KISIM-B VARIANT 3 • Variant of  KISIM~b	753
(KISIM~c)	PCSL: KISIM~c CDLI: KISIM~c UCS: 𒂔 PROTO-CUNEIFORM SIGN KISIM-C	754
(KIŠ)	PCSL: KIŠ CDLI: KISZ UCS: 𒉌 PROTO-CUNEIFORM SIGN KISH	755
(KIŠ~v1)	PCSL: KIŠ~v1 CDLI: KISZ UCS: 𒉌 PROTO-CUNEIFORM SIGN KISH VARIANT 1 • Variant of  KIŠ	756
(KIŠIK~a)	PCSL: KIŠIK~a CDLI: KISZIK~a UCS: 𒉌𒉗 PROTO-CUNEIFORM SIGN KISHIK-A	757
(KIŠIK~b)	PCSL: KIŠIK~b CDLI: KISZIK~b UCS: 𒉌𒉗 PROTO-CUNEIFORM SIGN KISHIK-B	758
(KITI)	PCSL: KITI CDLI: KITI UCS: 𒉌𒉚 PROTO-CUNEIFORM SIGN KITI	759
(KITI~v1)	PCSL: KITI~v1 CDLI: KITI UCS: 𒉌𒉚 PROTO-CUNEIFORM SIGN KITI VARIANT 1 • Variant of  KITI	760

	PCSL: KU~a CDLI: KU~a UCS: 𒂍 PROTO-CUNEIFORM SIGN KU-A	761
	PCSL: KU~a@t CDLI: KU~a@t Unicode status: not proposed due to chronological scope	762
	PCSL: KU~b1 CDLI: KU~b1 UCS: 𒂏 PROTO-CUNEIFORM SIGN KU-B1	763
	PCSL: KU~b2 CDLI: KU~b2 UCS: 𒂏 PROTO-CUNEIFORM SIGN KU-B2	764
	PCSL: KU <sub>3</sub> ~a CDLI: KU3~a UCS: 𒂔 PROTO-CUNEIFORM SIGN KU3-A	765
	PCSL: KU <sub>3</sub> ~c CDLI: KU3~c UCS: 𒂔 PROTO-CUNEIFORM SIGN KU3-C	766
	PCSL: KU <sub>6</sub> ~a CDLI: KU6~a UCS: 𒂔 PROTO-CUNEIFORM SIGN KU6-A	767
	PCSL:  KU <sub>6</sub> ~a.1(N02)  CDLI:  KU6~a.1(N02)  UCS: 𒀭𒉸 PROTO-CUNEIFORM SIGN KU6-A BESIDE ONE-N2	768
	PCSL:  KU <sub>6</sub> ~a+GIŠ  CDLI:  KU6~a+GISZ  UCS: 𒀭𒆠 PROTO-CUNEIFORM SIGN KU6-A JOINING GISH	769
	PCSL:  KU <sub>6</sub> ~a+KU <sub>6</sub> ~a  CDLI:  KU6~a+KU6~a  UCS: 𒀭𒆠 PROTO-CUNEIFORM SIGN KU6-A JOINING KU6-A	770
	PCSL: KU <sub>6</sub> ~a@s CDLI: KU6~a@s UCS: 𒀭𒆠 PROTO-CUNEIFORM SIGN KU6-A SHESHIG	771

	PCSL: KU <sub>6</sub> ~c CDLI: KU6~c UCS: ☈ PROTO-CUNEIFORM SIGN KU6-C	772
	PCSL: KU <sub>6</sub> ~d CDLI: KU6~d UCS: ☉ PROTO-CUNEIFORM SIGN KU6-D	773
	PCSL: KUN CDLI: KUN Unicode status: not proposed due to chronological scope	774
	PCSL: KUR~a CDLI: KUR~a UCS: ☊ PROTO-CUNEIFORM SIGN KUR-A	775
	PCSL:  KUR~a.E <sub>2</sub> ~a  CDLI:  KUR~a.E2~a  UCS: ☋ PROTO-CUNEIFORM SIGN KUR-A BESIDE E2-A	776
	PCSL:  KUR~a.NUNUZ~a1  CDLI:  KUR~a.NUNUZ~a1  UCS: ☌ PROTO-CUNEIFORM SIGN KUR-A BESIDE NUNUZ-A1	777
	PCSL: KUR~b CDLI: KUR~b UCS: ☍ PROTO-CUNEIFORM SIGN KUR-B	778
	PCSL:  KUR~b.E <sub>2</sub> ~a  CDLI:  KUR~b.E2~a  UCS: ☎ PROTO-CUNEIFORM SIGN KUR-B BESIDE E2-A	779
	PCSL: KUR~c CDLI: KUR~c UCS: ☏ PROTO-CUNEIFORM SIGN KUR-C	780
	PCSL: KUR~c~v1 CDLI: KUR~c UCS: ☐ PROTO-CUNEIFORM SIGN KUR-C VARIANT 1 • Variant of ☏ KUR~c	781
	PCSL: KUR~d CDLI: KUR~d UCS: ☘ PROTO-CUNEIFORM SIGN KUR-D	782

	PCSL: KUR@g~a CDLI: KUR@g~a UCS: 𒂔 PROTO-CUNEIFORM SIGN KUR GUNU-A	783
	PCSL: KUR@g~b CDLI: KUR@g~b UCS: 𒂕 PROTO-CUNEIFORM SIGN KUR GUNU-B	784
	PCSL: KUŠU₂~a CDLI: KUSZU2~a UCS: 𒆠 PROTO-CUNEIFORM SIGN KUSHU2-A	785
	PCSL: KUŠU₂~b CDLI: KUSZU2~b UCS: 𒆡 PROTO-CUNEIFORM SIGN KUSHU2-B	786
	PCSL: KUŠU₂~c CDLI: KUSZU2~c UCS: 𒆢 PROTO-CUNEIFORM SIGN KUSHU2-C	787
	PCSL: KUŠU₂~d CDLI: KUSZU2~d UCS: 𒆣 PROTO-CUNEIFORM SIGN KUSHU2-D	788
	PCSL: KUŠU₂~e CDLI: KUSZU2~e UCS: 𒆤 PROTO-CUNEIFORM SIGN KUSHU2-E	789
	PCSL: KUŠU₂~f CDLI: KUSZU2~f UCS: 𒆥 PROTO-CUNEIFORM SIGN KUSHU2-F	790
	PCSL: LA~b CDLI: LA~b UCS: 𒈗 PROTO-CUNEIFORM SIGN LA-B	791
	PCSL: LA~c CDLI: LA~c UCS: 𒈗 PROTO-CUNEIFORM SIGN LA-C	792
	PCSL: LA~d CDLI: LA~d UCS: 𒈗 PROTO-CUNEIFORM SIGN LA-D	793

	PCSL: LA~e CDLI: LA~e Unicode status: not proposed due to chronological scope	794
	PCSL: LA <sub>2</sub> CDLI: LA2 UCS: □ PROTO-CUNEIFORM SIGN LA2	795
	PCSL: LAGAB~a CDLI: LAGAB~a UCS: ○ PROTO-CUNEIFORM SIGN LAGAB-A	796
	PCSL:  LAGAB~a×BA  CDLI:  LAGAB~a×BA  UCS: Ⓛ PROTO-CUNEIFORM SIGN LAGAB-A TIMES BA	797
	PCSL:  LAGAB~a×BIR <sub>3</sub> ~b  CDLI:  LAGAB~a×BIR3~b  UCS: Ⓜ PROTO-CUNEIFORM SIGN LAGAB-A TIMES BIR3-B	798
	PCSL:  LAGAB~a×DU <sub>6</sub> ~a~v1  CDLI:  LAGAB~a×DU6~b  UCS: Ⓝ PROTO-CUNEIFORM SIGN LAGAB-A TIMES DU6-A VARIANT 1	799
	PCSL:  LAGAB~a×KAK~a  CDLI:  LAGAB~a×KAK~a  UCS: Ⓞ PROTO-CUNEIFORM SIGN LAGAB-A TIMES KAK-A	800
	PCSL:  LAGAB~a×KU <sub>6</sub> ~a  CDLI:  LAGAB~a×KU6~a  UCS: Ⓟ PROTO-CUNEIFORM SIGN LAGAB-A TIMES KU6-A	801
	PCSL:  LAGAB~a×(KU <sub>6</sub> ~a+KU <sub>6</sub> ~a)  CDLI:  LAGAB~a×(KU6~a+KU6~a)  UCS: Ⓠ PROTO-CUNEIFORM SIGN LAGAB-A TIMES KU6-A JOINING KU6-A	802
	PCSL:  LAGAB~a×KUŠU <sub>2</sub> ~a@t  CDLI:  LAGAB~a×KUSZU2~b  UCS: Ⓡ PROTO-CUNEIFORM SIGN LAGAB-A TIMES KUSHU2-A TENU • Has a compound-only sign: Ⓢ KUŠU <sub>2</sub> ~a@t	803
	PCSL:  LAGAB~a×LAGAB~a  CDLI:  LAGAB~a×LAGAB~a  UCS: Ⓣ PROTO-CUNEIFORM SIGN LAGAB-A TIMES LAGAB-A	804

	PCSL:  LAGAB~axME~a  CDLI:  LAGAB~axME~a  UCS: ☉ PROTO-CUNEIFORM SIGN LAGAB-A TIMES ME-A	805
	PCSL:  LAGAB~axNUN~b  CDLI:  LAGAB~axNUN~b  UCS: ☉+ PROTO-CUNEIFORM SIGN LAGAB-A TIMES NUN-B	806
	PCSL:  LAGAB~axPA~a  CDLI:  LAGAB~axPA~a  UCS: ☉ PROTO-CUNEIFORM SIGN LAGAB-A TIMES PA-A	807
	PCSL:  LAGAB~axSI~v1  CDLI:  LAGAB~axSI  UCS: ☉ PROTO-CUNEIFORM SIGN LAGAB-A TIMES SI VARIANT 1	808
	PCSL:  LAGAB~axSIG7~v1  CDLI:  LAGAB~axSIG7  UCS: ☉ PROTO-CUNEIFORM SIGN LAGAB-A TIMES SIG7 VARIANT 1	809
	PCSL:  LAGAB~axSU~a  CDLI:  LAGAB~axSU~a  UCS: ☉ PROTO-CUNEIFORM SIGN LAGAB-A TIMES SU-A	810
	PCSL:  LAGAB~axŠA  CDLI:  LAGAB~axSZA  UCS: ☉ PROTO-CUNEIFORM SIGN LAGAB-A TIMES SHA	811
	PCSL:  LAGAB~axŠITA~a1  CDLI:  LAGAB~axSZITA~a1  UCS: ☉ PROTO-CUNEIFORM SIGN LAGAB-A TIMES SHITA-A1	812
	PCSL:  LAGAB~axTI  CDLI:  LAGAB~axTI  UCS: ☉ PROTO-CUNEIFORM SIGN LAGAB-A TIMES TI	813
	PCSL:  LAGAB~axU4  CDLI:  LAGAB~axU4  UCS: ☉ PROTO-CUNEIFORM SIGN LAGAB-A TIMES U4	814
	PCSL:  LAGAB~axUB  CDLI:  LAGAB~axUB  UCS: ☉ PROTO-CUNEIFORM SIGN LAGAB-A TIMES UB	815

	PCSL:  LAGAB~axX  CDLI:  LAGAB~axX  UCS: ☈ PROTO-CUNEIFORM SIGN LAGAB-A TIMES X • Has a fragmentary or missing portion	816
	PCSL:  LAGAB~axZATU753  CDLI:  LAGAB~axZATU753  UCS: ☉ PROTO-CUNEIFORM SIGN LAGAB-A TIMES ZATU753	817
	PCSL:  LAGAB~ax2(N14)  CDLI:  LAGAB~ax2(N14)  UCS: ☊ PROTO-CUNEIFORM SIGN LAGAB-A TIMES TWO-N14	818
	PCSL: LAGAB~b CDLI: LAGAB~b UCS: ☋ PROTO-CUNEIFORM SIGN LAGAB-B	819
	PCSL:  LAGAB~bxBANŠUR~a  CDLI:  LAGAB~bxBANSZUR~a  UCS: ☌ PROTO-CUNEIFORM SIGN LAGAB-B TIMES BANSHUR-A	820
	PCSL:  LAGAB~bxGA'AR~a1  CDLI:  LAGAB~bxGA'AR~a1  UCS: ☍ PROTO-CUNEIFORM SIGN LAGAB-B TIMES GAAR-A1	821
	PCSL:  LAGAB~bxHI  CDLI:  LAGAB~bxHI  UCS: ☎ PROTO-CUNEIFORM SIGN LAGAB-B TIMES HI	822
	PCSL:  LAGAB~bxKUR~e  CDLI:  LAGAB~bxKUR~e  UCS: ☏ PROTO-CUNEIFORM SIGN LAGAB-B TIMES KUR-E • Has a compound-only sign: ☷ KUR~e	823
	PCSL:  LAGAB~bxPA~a  CDLI:  LAGAB~bxPA~a  UCS: ☐ PROTO-CUNEIFORM SIGN LAGAB-B TIMES PA-A	824
	PCSL:  LAGAB~bxSI  CDLI:  LAGAB~bxSI  Unicode status: not proposed due to chronological scope	825
	PCSL:  LAGAB~bxSUH <sub>3</sub>   CDLI:  LAGAB~bxSUH3  UCS: ☑ PROTO-CUNEIFORM SIGN LAGAB-B TIMES SUH3	826

	PCSL:  LAGAB~bxŠITA~c  CDLI:  LAGAB~bxSZITA~c  Unicode status: not proposed due to chronological scope	827
	PCSL:  LAGAB~bxU4  CDLI:  LAGAB~bxU4  UCS: ☐ PROTO-CUNEIFORM SIGN LAGAB-B TIMES U4	828
	PCSL:  LAGAB~bxX  CDLI:  LAGAB~bxX  Unicode status: not proposed due to chronological scope • Has a fragmentary or missing portion	829
	PCSL:  LAGAB~bx1(N01)  CDLI:  LAGAB~bx1(N01)  Unicode status: not proposed due to chronological scope	830
	PCSL:  LAGAB~b&LAGAB~b  CDLI:  LAGAB~bxLAGAB~b  UCS: ☐ PROTO-CUNEIFORM SIGN LAGAB-B OVER LAGAB-B • CDLI name normalized in PCSL: correct compound operator specified	831
	PCSL: LAGAR~a CDLI: LAGAR~a UCS: ☐ PROTO-CUNEIFORM SIGN LAGAR-A	832
	PCSL: LAGAR~a@r CDLI: LAGAR~a@r UCS: ☐ PROTO-CUNEIFORM SIGN LAGAR-A REVERSED	833
	PCSL: LAGAR~b1 CDLI: LAGAR~b1 UCS: ☐ PROTO-CUNEIFORM SIGN LAGAR-B1	834
	PCSL: LAGAR~b2 CDLI: LAGAR~b2 UCS: ☐ PROTO-CUNEIFORM SIGN LAGAR-B2	835
	PCSL: LAGAR~c CDLI: LAGAR~c UCS: ☐ PROTO-CUNEIFORM SIGN LAGAR-C	836
	PCSL: LAHTAN <sub>2</sub> CDLI: LAHTAN2 UCS: ☐ PROTO-CUNEIFORM SIGN LAHTAN2	837

	PCSL: LAK025 CDLI: LAK025 Unicode status: not proposed due to chronological scope	838
	PCSL: LAK050 CDLI: LAK050 Unicode status: not proposed due to chronological scope	839
	PCSL: LAK172 CDLI: LAK172 Unicode status: not proposed due to chronological scope	840
	PCSL: LAK251 CDLI: LAK251 Unicode status: not proposed due to chronological scope	841
	PCSL: LAK350 CDLI: LAK350 Unicode status: not proposed due to chronological scope	842
	PCSL: LAK777 CDLI: LAK777 Unicode status: not proposed due to chronological scope	843
	PCSL: LAL <sub>2</sub> ~a CDLI: LAL2~a UCS:  PROTO-CUNEIFORM SIGN LAL2-A	844
	PCSL:   LAL <sub>2</sub> ~a x EZEN~a ~ v1   CDLI:   LAL2~axEZEN~a   UCS:  PROTO-CUNEIFORM SIGN LAL2-A TIMES EZEN-A VARIANT 1	845
	PCSL:   LAL <sub>2</sub> ~a x NIM~b2   CDLI:   LAL2~axNIM~b2   UCS:  PROTO-CUNEIFORM SIGN LAL2-A TIMES NIM-B2	846
	PCSL: LAL <sub>2</sub> ~b CDLI: LAL2~b UCS:  PROTO-CUNEIFORM SIGN LAL2-B	847
	PCSL: LAL <sub>3</sub> ~a CDLI: LAL3~a UCS:  PROTO-CUNEIFORM SIGN LAL3-A	848

	PCSL: LAL <sub>3</sub> ~b CDLI: LAL3~b UCS: 𒂔 PROTO-CUNEIFORM SIGN LAL3-B	849
	PCSL: LAL <sub>3</sub> ~c CDLI: LAL3~c Unicode status: not proposed due to chronological scope	850
	PCSL: LAM~a CDLI: LAM~a UCS: 𒂗 PROTO-CUNEIFORM SIGN LAM-A	851
	PCSL: LAM~b CDLI: LAM~b UCS: 𒂘 PROTO-CUNEIFORM SIGN LAM-B	852
	PCSL: LAM~b@r CDLI: LAM~b@r UCS: 𒂙 PROTO-CUNEIFORM SIGN LAM-B REVERSED	853
	PCSL: LAM~b@s CDLI: LAM~b@s UCS: 𒂚 PROTO-CUNEIFORM SIGN LAM-B SHESHIG	854
	PCSL: LAM~b@t CDLI: LAM~b@t UCS: 𒂛 PROTO-CUNEIFORM SIGN LAM-B TENU	855
	PCSL: LAM~b~v1 CDLI: LAM~b UCS: 𒂜 PROTO-CUNEIFORM SIGN LAM-B VARIANT 1 • Variant of	856
	PCSL: LAM~b~v2 CDLI: LAM~b UCS: 𒂝 PROTO-CUNEIFORM SIGN LAM-B VARIANT 2 • Variant of	857
	PCSL: LAM~c CDLI: LAM~c Unicode status: not proposed due to chronological scope	858

	PCSL: LI CDLI: LI UCS: 𒆢 PROTO-CUNEIFORM SIGN LI	859
	PCSL: LI~v1 CDLI: LI UCS: 𒆢 PROTO-CUNEIFORM SIGN LI VARIANT 1 • Variant of 𒆢 LI	860
	PCSL: LIŠ CDLI: LISZ UCS: 𒆣 PROTO-CUNEIFORM SIGN LISH	861
	PCSL: LU <sub>2</sub> CDLI: LU2 UCS: 𒆧 PROTO-CUNEIFORM SIGN LU2	862
	PCSL:  LU <sub>2</sub> ×GEŠTU~c3  CDLI:  LU2×GESZTU~c3  UCS: 𒆧×GESHTU-C3 PROTO-CUNEIFORM SIGN LU2 TIMES GESHTU-C3	863
	PCSL: LU <sub>2</sub> @t CDLI: LU2@t Unicode status: not proposed due to chronological scope	864
	PCSL: LU <sub>2</sub> ~v1 CDLI: LU2 UCS: 𒆧 PROTO-CUNEIFORM SIGN LU2 VARIANT 1 • Variant of 𒆧 LU <sub>2</sub>	865
	PCSL: LU <sub>2</sub> ~v2 CDLI: LU2 UCS: 𒆧 PROTO-CUNEIFORM SIGN LU2 VARIANT 2 • Variant of 𒆧 LU <sub>2</sub>	866
	PCSL: LUGAL CDLI: LUGAL UCS: 𒆳 PROTO-CUNEIFORM SIGN LUGAL	867
	PCSL: LUGAL~v1 CDLI: LUGAL UCS: 𒆳 PROTO-CUNEIFORM SIGN LUGAL VARIANT 1 • Variant of 𒆳 LUGAL	868

	PCSL: LUM CDLI: LUM UCS:  PROTO-CUNEIFORM SIGN LUM	869
	PCSL: MA CDLI: MA UCS:  PROTO-CUNEIFORM SIGN MA	870
	PCSL:  MA×MA  CDLI:  MAxMA  UCS:  PROTO-CUNEIFORM SIGN MA TIMES MA	871
	PCSL:  MA×1(N58)  CDLI:  MAx1(N58)  UCS:  PROTO-CUNEIFORM SIGN MA TIMES ONE-N58	872
	PCSL: MA~v1 CDLI: MA UCS:  PROTO-CUNEIFORM SIGN MA VARIANT 1 • Variant of  MA	873
	PCSL:  MA~v1×A  CDLI:  MAxA  UCS:  PROTO-CUNEIFORM SIGN MA VARIANT 1 TIMES A	874
	PCSL:  MA~v1×X  CDLI:  MAxX  Unicode status: not proposed due to chronological scope • Has a fragmentary or missing portion	875
	PCSL:  MA~v1×2(N57)  CDLI:  MAx2(N57)  Unicode status: not proposed due to chronological scope	876
	PCSL: MA <sub>2</sub> CDLI: MA2 UCS:  PROTO-CUNEIFORM SIGN MA2	877
	PCSL: MAGUR~a CDLI: MAGUR~a UCS:  PROTO-CUNEIFORM SIGN MAGUR-A	878
	PCSL: MAGUR~b CDLI: MAGUR~b UCS:  PROTO-CUNEIFORM SIGN MAGUR-B	879

	PCSL: MAH~a CDLI: MAH~a UCS: 𒂗 PROTO-CUNEIFORM SIGN MAH-A	880
	PCSL:  MAH~a×AB₂  CDLI:  MAH~axAB2  UCS: 𒂗 𒂘 PROTO-CUNEIFORM SIGN MAH-A TIMES AB2	881
	PCSL:  MAH~axGUKKAL~a  CDLI:  MAH~axGUKKAL~a  UCS: 𒂗 𒂔 PROTO-CUNEIFORM SIGN MAH-A TIMES GUKKAL-A	882
	PCSL:  MAH~axKU₆~a  CDLI:  MAH~axKU6~a  UCS: 𒂗 𒂔 PROTO-CUNEIFORM SIGN MAH-A TIMES KU6-A	883
	PCSL:  MAH~axMAŠ  CDLI:  MAH~axMASZ  UCS: 𒂗 𒂔 PROTO-CUNEIFORM SIGN MAH-A TIMES MASH	884
	PCSL:  MAH~axNA~a  CDLI:  MAH~axNA~a  UCS: 𒂗 𒂔 PROTO-CUNEIFORM SIGN MAH-A TIMES NA-A	885
	PCSL:  MAH~ax(SILA₃~a×UMBIN~a)  CDLI:  MAH~ax(SILA3~axUMBIN~a)  UCS: 𒂗 𒂔 PROTO-CUNEIFORM SIGN MAH-A TIMES SILA3-A TIMES UMBIN-A	886
	PCSL:  MAH~axTUG₂~a  CDLI:  MAH~axTUG2~a  UCS: 𒂗 𒂔 PROTO-CUNEIFORM SIGN MAH-A TIMES TUG2-A	887
	PCSL:  MAH~axUD₅~a~v1  CDLI:  MAH~axUD5~a  UCS: 𒂗 𒂔 PROTO-CUNEIFORM SIGN MAH-A TIMES UD5-A VARIANT 1	888
	PCSL:  MAH~axUDU~a  CDLI:  MAH~axUDU~a  UCS: 𒂗 𒂔 PROTO-CUNEIFORM SIGN MAH-A TIMES UDU-A	889
	PCSL:  MAH~axUR~a  CDLI:  MAH~axUR~a  UCS: 𒂗 𒂔 PROTO-CUNEIFORM SIGN MAH-A TIMES UR-A	890

	PCSL:  MAH~axUTUA~a  CDLI:  MAH~axUTUA~a  UCS: 𒂗  PROTOKUNEFUR SIGN MAH-A TIMES UTUA-A	891
	PCSL:  MAH~axX  CDLI:  MAH~axX  UCS: 𒂗  PROTOKUNEFUR SIGN MAH-A TIMES X • Has a fragmentary or missing portion	892
	PCSL:  MAH~axZATU659  CDLI:  MAH~axZATU659  UCS: 𒂗  PROTOKUNEFUR SIGN MAH-A TIMES ZATU659	893
	PCSL: MAH~b CDLI: MAH~b UCS: 𒂗  PROTOKUNEFUR SIGN MAH-B	894
	PCSL:  MAH~bxKU6~a  CDLI:  MAH~bxKU6~a  UCS: 𒂗  PROTOKUNEFUR SIGN MAH-B TIMES KU6-A	895
	PCSL:  MAH~bxMASZ  CDLI:  MAH~bxMASZ  UCS: 𒂗  PROTOKUNEFUR SIGN MAH-B TIMES MASH	896
	PCSL:  MAH~bxNA~a  CDLI:  MAH~bxNA~a  UCS: 𒂗  PROTOKUNEFUR SIGN MAH-B TIMES NA-A	897
	PCSL:  MAH~bxSAL  CDLI:  MAH~bxSAL  UCS: 𒂗  PROTOKUNEFUR SIGN MAH-B TIMES SAL	898
	PCSL: MAR~a CDLI: MAR~a UCS: 𒂗  PROTOKUNEFUR SIGN MAR-A	899
	PCSL: MAR~a@t CDLI: MAR~a@t UCS: 𒂗  PROTOKUNEFUR SIGN MAR-A TENU	900
	PCSL: MAR~a~v1 CDLI: MAR~a UCS: 𒂗  PROTOKUNEFUR SIGN MAR-A VARIANT 1 • Variant of 𒂗  MAR~a	901

	PCSL: MAR~b CDLI: MAR~b UCS: □— PROTO-CUNEIFORM SIGN MAR-B	902
	PCSL:  MAR~bx(LAGAB~b.ŠE₃~v1)  CDLI:  MAR~bx(LAGAB~b.SZE3)  UCS: □— PROTO-CUNEIFORM SIGN MAR-B TIMES LAGAB-B PLUS SHE3 VARIANT 1 • Group inner operator . ‘beside’ → ‘plus’ in Unicode name	903
	PCSL:  MAR~bxŠE~a  CDLI:  MAR~bxSZE~a  UCS: □— PROTO-CUNEIFORM SIGN MAR-B TIMES SHE-A	904
	PCSL:  MAR~bxX  CDLI:  MAR~bxX  UCS: □— PROTO-CUNEIFORM SIGN MAR-B TIMES X • Has a fragmentary or missing portion	905
	PCSL: MAŠ CDLI: MASZ UCS: + PROTO-CUNEIFORM SIGN MASH	906
	PCSL: MAŠ₂ CDLI: MASZ2 UCS: +◊ PROTO-CUNEIFORM SIGN MASH2	907
	PCSL: MAŠ₂@g CDLI: MASZ2@g UCS: +◊ PROTO-CUNEIFORM SIGN MASH2 GUNU	908
	PCSL: ME~a CDLI: ME~a UCS: ⊥ PROTO-CUNEIFORM SIGN ME-A	909
	PCSL: ME~b CDLI: ME~b UCS: ⊥ PROTO-CUNEIFORM SIGN ME-B	910
	PCSL: ME₃ CDLI: ME3 UCS: ⊥ PROTO-CUNEIFORM SIGN ME3	911
	PCSL: MEN~a CDLI: MEN~a UCS: ⊥ PROTO-CUNEIFORM SIGN MEN-A	912

	PCSL: MEN~a~v1 CDLI: MEN~a UCS: 𒂔 PROTO-CUNEIFORM SIGN MEN-A VARIANT 1 • Variant of 𒂔 MEN~a	913
	PCSL: MEN~b CDLI: MEN~b UCS: 𒂔 PROTO-CUNEIFORM SIGN MEN-B	914
	PCSL: MES CDLI: MES UCS: 𒂔 PROTO-CUNEIFORM SIGN MES	915
	PCSL: MES~v1 CDLI: MES UCS: 𒂔 PROTO-CUNEIFORM SIGN MES VARIANT 1 • Variant of 𒂔 MES	916
	PCSL: MIR~a CDLI: MIR~a UCS: 𒂔 PROTO-CUNEIFORM SIGN MIR-A	917
	PCSL: MIR~b CDLI: MIR~b UCS: 𒂔 PROTO-CUNEIFORM SIGN MIR-B	918
	PCSL: MU CDLI: MU UCS: 𒂔 PROTO-CUNEIFORM SIGN MU	919
	PCSL: MUD CDLI: MUD UCS: 𒂔 PROTO-CUNEIFORM SIGN MUD	920
	PCSL: MUD~v1 CDLI: MUD UCS: 𒂔 PROTO-CUNEIFORM SIGN MUD VARIANT 1 • Variant of 𒂔 MUD	921
	PCSL: MUD <sub>3</sub> ~a CDLI: MUD3~a UCS: 𒂔 PROTO-CUNEIFORM SIGN MUD3-A	922

	PCSL: MUD <sub>3</sub> ~a@g CDLI: MUD3~a@g UCS:  PROTO-CUNEIFORM SIGN MUD3-A GUNU	923
	PCSL:  MUD <sub>3</sub> ~a@gxGU  CDLI:  MUD3~a@gxGU  Unicode status: not proposed due to chronological scope	924
	PCSL: MUD <sub>3</sub> ~b CDLI: MUD3~b UCS:  PROTO-CUNEIFORM SIGN MUD3-B	925
	PCSL: MUD <sub>3</sub> ~c CDLI: MUD3~c UCS:  PROTO-CUNEIFORM SIGN MUD3-C	926
	PCSL: MUD <sub>3</sub> ~d CDLI: MUD3~d UCS:  PROTO-CUNEIFORM SIGN MUD3-D	927
	PCSL: MUL CDLI: MUL UCS:  PROTO-CUNEIFORM SIGN MUL	928
	PCSL: MUN~a1 CDLI: MUN~a1 UCS:  PROTO-CUNEIFORM SIGN MUN-A1	929
	PCSL: MUN~a2 CDLI: MUN~a2 UCS:  PROTO-CUNEIFORM SIGN MUN-A2	930
	PCSL: MUN~a3 CDLI: MUN~a3 UCS:  PROTO-CUNEIFORM SIGN MUN-A3	931
	PCSL: MUN~a4 CDLI: MUN~a4 UCS:  PROTO-CUNEIFORM SIGN MUN-A4	932
	PCSL: MUN~b CDLI: MUN~b UCS:  PROTO-CUNEIFORM SIGN MUN-B	933

	PCSL: MUNŠUB~a CDLI: MUNSZUB~a UCS:  PROTO-CUNEIFORM SIGN MUNSHUB-A	934
	PCSL: MUNŠUB~b CDLI: MUNSZUB~b UCS:  PROTO-CUNEIFORM SIGN MUNSHUB-B	935
	PCSL: MUNU <sub>3</sub> CDLI: MUNU3 UCS:  PROTO-CUNEIFORM SIGN MUNU3	936
	PCSL: MURUB <sub>2</sub> CDLI: MURUB2 UCS:  PROTO-CUNEIFORM SIGN MURUB2	937
	PCSL: MUŠ CDLI: MUSZ UCS:  PROTO-CUNEIFORM SIGN MUSH	938
	PCSL: MUŠ <sub>3</sub> ~a CDLI: MUSZ3~a UCS:  PROTO-CUNEIFORM SIGN MUSH3-A	939
	PCSL: MUŠ <sub>3</sub> ~a@g CDLI: MUSZ3~a@g UCS:  PROTO-CUNEIFORM SIGN MUSH3-A GUNU	940
	PCSL: MUŠ <sub>3</sub> ~a@g~v1 CDLI: MUSZ3~a@g UCS:  PROTO-CUNEIFORM SIGN MUSH3-A GUNU VARIANT 1 • Variant of  MUŠ <sub>3</sub> ~a@g	941
	PCSL: MUŠ <sub>3</sub> ~a~v1 CDLI: MUSZ3~a UCS:  PROTO-CUNEIFORM SIGN MUSH3-A VARIANT 1 • Variant of  MUŠ <sub>3</sub> ~a	942
	PCSL: MUŠ <sub>3</sub> ~a~v2 CDLI: MUSZ3~a UCS:  PROTO-CUNEIFORM SIGN MUSH3-A VARIANT 2 • Variant of  MUŠ <sub>3</sub> ~a	943



PCSL: MUŠ<sub>3</sub>~b  
 CDLI: MUSZ3~b  
 UCS: 𒂔 PROTO-CUNEIFORM SIGN MUSH3-B



PCSL: MUŠEN  
 CDLI: MUSZEN  
 UCS: 𒂔 PROTO-CUNEIFORM SIGN MUSHEN



PCSL: |MUŠEN.UR<sub>3</sub>~b2|  
 CDLI: |MUSZEN.UR3~b2|  
 UCS: 𒂔 𒌨₃ PROTO-CUNEIFORM SIGN MUSHEN BESIDE UR3-B2



PCSL: |MUŠENxPAP~a|  
 CDLI: |MUSZENxPAP~a|



PCSL: |MUŠENxX|  
 CDLI: |MUSZENxX|  
 UCS: 𒂔 PROTO-CUNEIFORM SIGN MUSHEN TIMES X  
 • Has a fragmentary or missing portion



PCSL: |MUŠENx1(N57)|  
 CDLI: |MUSZENx1(N57)|  
 UCS: 𒂔 𒈗₅₇ PROTO-CUNEIFORM SIGN MUSHEN TIMES ONE-N57



PCSL: |MUŠENx2(N57)|  
 CDLI: |MUSZENx2(N57)|  
 UCS: 𒂔 𒈗₂₅₇ PROTO-CUNEIFORM SIGN MUSHEN TIMES TWO-N57



PCSL: |MUŠENx3(N57)|  
 CDLI: |MUSZENx3(N57)|  
 UCS: 𒂔 𒈗₃₅₇ PROTO-CUNEIFORM SIGN MUSHEN TIMES THREE-N57



PCSL: NA~a  
 CDLI: NA~a  
 UCS: 𒀭 PROTO-CUNEIFORM SIGN NA-A



PCSL: NA~b  
 CDLI: NA~b  
 UCS: 𒀭 PROTO-CUNEIFORM SIGN NA-B

	PCSL: NA~c CDLI: NA~c UCS: 𒂗 PROTO-CUNEIFORM SIGN NA-C	954
	PCSL: NA~d CDLI: NA~d UCS: 𒂘 PROTO-CUNEIFORM SIGN NA-D	955
	PCSL: NA <sub>2</sub> ~a CDLI: NA2~a UCS: 𒂔 PROTO-CUNEIFORM SIGN NA2-A	956
	PCSL: NA <sub>2</sub> ~a~v1 CDLI: NA2~a UCS: 𒂔 PROTO-CUNEIFORM SIGN NA2-A VARIANT 1 • Variant of  NA <sub>2</sub> ~a	957
	PCSL: NA <sub>2</sub> ~b1 CDLI: NA2~b1 UCS: 𒂔 PROTO-CUNEIFORM SIGN NA2-B1	958
	PCSL: NA <sub>2</sub> ~b2 CDLI: NA2~b2 UCS: 𒂔 PROTO-CUNEIFORM SIGN NA2-B2	959
	PCSL: NAB CDLI: NAB UCS: * PROTO-CUNEIFORM SIGN NAB	960
	PCSL: NAB~v1 CDLI: NAB UCS: * PROTO-CUNEIFORM SIGN NAB VARIANT 1 • Variant of  NAB	961
	PCSL: NAB~v2 CDLI: NAB UCS: ** PROTO-CUNEIFORM SIGN NAB VARIANT 2 • Variant of  NAB	962
	PCSL: NAGA~a CDLI: NAGA~a UCS: 𒀭 PROTO-CUNEIFORM SIGN NAGA-A	963

	PCSL:  NAGA~axTAK <sub>4</sub> ~a  CDLI:  NAGA~axTAK4~a  UCS:  PROTO-CUNEIFORM SIGN NAGA-A TIMES TAK4-A	964
	PCSL: NAGA~b CDLI: NAGA~b UCS:  PROTO-CUNEIFORM SIGN NAGA-B	965
	PCSL: NAGAR~a CDLI: NAGAR~a UCS:  PROTO-CUNEIFORM SIGN NAGAR-A	966
	PCSL: NAGAR~a~v1 CDLI: NAGAR~a UCS:  PROTO-CUNEIFORM SIGN NAGAR-A VARIANT 1 • Variant of  NAGAR~a	967
	PCSL: NAGAR~a~v2 CDLI: NAGAR~a UCS:  PROTO-CUNEIFORM SIGN NAGAR-A VARIANT 2 • Variant of  NAGAR~a	968
	PCSL: NAGAR~a~v3 CDLI: NAGAR~a UCS:  PROTO-CUNEIFORM SIGN NAGAR-A VARIANT 3 • Variant of  NAGAR~a	969
	PCSL: NAGAR~b CDLI: NAGAR~b UCS:  PROTO-CUNEIFORM SIGN NAGAR-B	970
	PCSL: NAGAR~b~v1 CDLI: NAGAR~b UCS:  PROTO-CUNEIFORM SIGN NAGAR-B VARIANT 1 • Variant of  NAGAR~b	971
	PCSL: NAM~a CDLI: NAM~a UCS:  PROTO-CUNEIFORM SIGN NAM-A	972
	PCSL: NAM~b CDLI: NAM~b UCS:  PROTO-CUNEIFORM SIGN NAM-B	973

	PCSL: NAM~c CDLI: NAM~c UCS: 𒂔 PROTO-CUNEIFORM SIGN NAM-C	974
	PCSL: NAM~d CDLI: NAM~d UCS: 𒂕 PROTO-CUNEIFORM SIGN NAM-D	975
	PCSL: NAM <sub>2</sub> CDLI: NAM2 UCS: 𒂔 PROTO-CUNEIFORM SIGN NAM2	976
	PCSL:  NAM <sub>2</sub> ×1(N01)  CDLI:  NAM2×1(N01)  UCS: 𒂔 PROTO-CUNEIFORM SIGN NAM2 TIMES ONE-N1	977
	PCSL: NAM <sub>2</sub> @g CDLI: NAM2@g UCS: 𒂔 PROTO-CUNEIFORM SIGN NAM2 GUNU	978
	PCSL: NAM <sub>2</sub> @t CDLI: NAM2@t UCS: 𒂔 PROTO-CUNEIFORM SIGN NAM2 TENU	979
	PCSL: NAMEŠDA CDLI: NAMESZDA UCS: 𒈗𒂔 PROTO-CUNEIFORM SIGN NAMESHDA	980
	PCSL: NAMEŠDA~v1 CDLI: NAMESZDA UCS: 𒈗𒂔 PROTO-CUNEIFORM SIGN NAMESHDA VARIANT 1 • Variant of 𒈗𒂔 NAMEŠDA	981
	PCSL: NANNA~a CDLI: NANNA~a UCS: 𒀭 PROTO-CUNEIFORM SIGN NANNA-A	982
	PCSL: NANNA~a~v1 CDLI: NANNA~a UCS: 𒀭 PROTO-CUNEIFORM SIGN NANNA-A VARIANT 1 • Variant of 𒀭 NANNA~a	983

	PCSL: NANNA~b CDLI: NANNA~b UCS: 𒀭 PROTO-CUNEIFORM SIGN NANNA-B	984
	PCSL: NANŠE~a CDLI: NANSZE~a UCS: 𒀭 PROTO-CUNEIFORM SIGN NANSHE-A	985
	PCSL: NANŠE~b CDLI: NANSZE~b UCS: 𒀭 PROTO-CUNEIFORM SIGN NANSHE-B	986
	PCSL: NAR CDLI: NAR UCS: 𒀭 PROTO-CUNEIFORM SIGN NAR	987
	PCSL: NE~a CDLI: NE~a UCS: 𒀭 PROTO-CUNEIFORM SIGN NE-A	988
	PCSL: NE~a~v1 CDLI: NE~a UCS: 𒀭 PROTO-CUNEIFORM SIGN NE-A VARIANT 1 • Variant of 𒀭 NE~a	989
	PCSL: NE~a~v2 CDLI: NE~a UCS: 𒀭 PROTO-CUNEIFORM SIGN NE-A VARIANT 2 • Variant of 𒀭 NE~a	990
	PCSL: NE~b CDLI: NE~b UCS: 𒀭 PROTO-CUNEIFORM SIGN NE-B	991
	PCSL: NE~c CDLI: NE~c UCS: 𒀭 PROTO-CUNEIFORM SIGN NE-C	992
	PCSL: NE~d CDLI: NE~d UCS: 𒀭 PROTO-CUNEIFORM SIGN NE-D	993
	PCSL: NERGAL~v CDLI: NERGAL~x UCS: 𒀭 PROTO-CUNEIFORM SIGN NERGAL-V	994

	PCSL: NESAG <sub>2</sub> ~a CDLI: NESAG2~a UCS:  PROTO-CUNEIFORM SIGN NESAG2-A	995
	PCSL: NESAG <sub>2</sub> ~a1 CDLI: NESAG2~a Unicode status: not proposed due to chronological scope • Variant of  NESAG <sub>2</sub> ~a	996
	PCSL: NESAG <sub>2</sub> ~b CDLI: NESAG2~b UCS:  PROTO-CUNEIFORM SIGN NESAG2-B	997
	PCSL: NESAG <sub>2</sub> ~b@t CDLI: NESAG2~b@t UCS:  PROTO-CUNEIFORM SIGN NESAG2-B TENU	998
	PCSL: NESAG <sub>2</sub> ~b~v1 CDLI: NESAG2~b UCS:  PROTO-CUNEIFORM SIGN NESAG2-B VARIANT 1 • Variant of  NESAG <sub>2</sub> ~b	999
	PCSL: NI~a CDLI: NI~a UCS:  PROTO-CUNEIFORM SIGN NI-A	1000
	PCSL:  NI~a.RU~v1  CDLI:  NI~a.RU  UCS:  PROTO-CUNEIFORM SIGN NI-A BESIDE RU VARIANT 1	1001
	PCSL:  NI~a×1(N57)  CDLI:  NI~ax1(N57)  UCS:  PROTO-CUNEIFORM SIGN NI-A TIMES ONE-N57	1002
	PCSL: NI~a@g CDLI: NI~a@g UCS:  PROTO-CUNEIFORM SIGN NI-A GUNU	1003
	PCSL: NI~b CDLI: NI~b UCS:  PROTO-CUNEIFORM SIGN NI-B	1004

	PCSL:  NI~bxX  CDLI:  NI~bxX  UCS: ▷ PROTO-CUNEIFORM SIGN NI-B TIMES X • Has a fragmentary or missing portion	1005
	PCSL:  NI~bx4(N57)  CDLI:  NI~bx4(N57)  UCS: ▷ PROTO-CUNEIFORM SIGN NI-B TIMES FOUR-N57	1006
	PCSL: NI <sub>2</sub> CDLI: NI2 UCS: 𒀭 PROTO-CUNEIFORM SIGN NI2	1007
	PCSL: NIGIN CDLI: NIGIN UCS: 𒉌 PROTO-CUNEIFORM SIGN NIGIN	1008
	PCSL: NIM~a CDLI: NIM~a UCS: 𒉌 PROTO-CUNEIFORM SIGN NIM-A	1009
	PCSL: NIM~b1 CDLI: NIM~b1 UCS: 𒉌 PROTO-CUNEIFORM SIGN NIM-B1	1010
	PCSL: NIM~b2 CDLI: NIM~b2 UCS: 𒉌 PROTO-CUNEIFORM SIGN NIM-B2	1011
	PCSL: NIM~b3 CDLI: NIM~b3 UCS: 𒉌 PROTO-CUNEIFORM SIGN NIM-B3	1012
	PCSL: NIMGIR CDLI: NIMGIR UCS: 𒉌 PROTO-CUNEIFORM SIGN NIMGIR	1013
	PCSL: NIMGIR~v1 CDLI: NIMGIR UCS: 𒉌 PROTO-CUNEIFORM SIGN NIMGIR VARIANT 1 • Variant of 𒉌 NIMGIR	1014
	PCSL: NIN CDLI: NIN UCS: 𒉌 PROTO-CUNEIFORM SIGN NIN	1015

	PCSL: NINDA <sub>2</sub> CDLI: NINDA2 UCS: 𠂔 PROTO-CUNEIFORM SIGN NINDA2	1016
	PCSL:  NINDA <sub>2</sub> ×AN  CDLI:  NINDA2xAN  UCS: 𠂔 𠂗 PROTO-CUNEIFORM SIGN NINDA2 TIMES AN	1017
	PCSL:  NINDA <sub>2</sub> ×(AN.HI)  CDLI:  NINDA2x(AN.HI)  UCS: 𠂔 𠂇 PROTO-CUNEIFORM SIGN NINDA2 TIMES AN PLUS HI • Group inner operator . 'beside' → 'plus' in Unicode name	1018
	PCSL:  NINDA <sub>2</sub> ×(AN.ME~a)  CDLI:  NINDA2x(AN.ME~a)  UCS: 𠂔 𠂆 PROTO-CUNEIFORM SIGN NINDA2 TIMES AN PLUS ME-A • Unifies 𠂔  NINDA <sub>2</sub> ×GUDU <sub>4</sub>  ~v3 • Group inner operator . 'beside' → 'plus' in Unicode name	1019
	PCSL:  NINDA <sub>2</sub> ×(AN.X)  CDLI:  NINDA2x(AN.X)  UCS: 𠂔 𠂊 PROTO-CUNEIFORM SIGN NINDA2 TIMES AN PLUS X • Has a fragmentary or missing portion • Group inner operator . 'beside' → 'plus' in Unicode name	1020
	PCSL:  NINDA <sub>2</sub> ×BA  CDLI:  NINDA2xBA  UCS: 𠂔 𠂎 PROTO-CUNEIFORM SIGN NINDA2 TIMES BA	1021
	PCSL:  NINDA <sub>2</sub> ×EZEN~b  CDLI:  NINDA2xEZEN~b  UCS: 𠂔 𠂑 PROTO-CUNEIFORM SIGN NINDA2 TIMES EZEN-B	1022
	PCSL:  NINDA <sub>2</sub> ×GA'AR~a1  CDLI:  NINDA2xGA'AR~a1  UCS: 𠂔 𠂔 PROTO-CUNEIFORM SIGN NINDA2 TIMES GAAR-A1	1023
	PCSL:  NINDA <sub>2</sub> ×GAR  CDLI:  NINDA2xGAR  UCS: 𠂔 𠂔 PROTO-CUNEIFORM SIGN NINDA2 TIMES GAR	1024
	PCSL:  NINDA <sub>2</sub> ×GIŠ  CDLI:  NINDA2xGISZ  UCS: 𠂔 𠂔 PROTO-CUNEIFORM SIGN NINDA2 TIMES GISH	1025

	PCSL:  NINDA₂×(GIŠ.DAR~a)  CDLI:  NINDA₂×(GISZ.DAR~a)  Unicode status: not proposed due to chronological scope	1026
	PCSL:  NINDA₂×GU₄  CDLI:  NINDA₂×GU₄  UCS: 𒉣 PROTO-CUNEIFORM SIGN NINDA2 TIMES GU4	1027
	PCSL:  NINDA₂×GUDU₄ ~v2 CDLI:  NINDA₂×GUDU₄  Unicode status: not proposed: unified with 𒉣  PROTOSIGN NINDA₂×(HI.AN.ME~a)  • Has a compound-only sign: ◊*  GUDU₄	1028
	PCSL:  NINDA₂×GUDU₄ ~v3 CDLI:  NINDA₂×GUDU₄  Unicode status: not proposed: unified with 𒉣  PROTOSIGN NINDA₂×(AN.ME~a)  • Variant of 𒉣   NINDA₂×GUDU₄ ~v2 • Has a compound-only sign: ◊*  GUDU₄	1029
	PCSL:  NINDA₂×HI  CDLI:  NINDA₂×HI  UCS: 𒉣  PROTO-CUNEIFORM SIGN NINDA2 TIMES HI	1030
	PCSL:  NINDA₂×(HI.AN.ME~a)  CDLI:  NINDA₂×(HI.AN.ME~a)  UCS: 𒉣  PROTO-CUNEIFORM SIGN NINDA2 TIMES HI PLUS AN PLUS ME-A • Unifies 𒉣   NINDA₂×GUDU₄ ~v2 • Group inner operator . 'beside' → 'plus' in Unicode name	1031
	PCSL:  NINDA₂×(HI.ME~a)  CDLI:  NINDA₂×(HI+ME~a)  UCS: 𒉣  PROTO-CUNEIFORM SIGN NINDA2 TIMES HI PLUS ME-A • CDLI name normalized in PCSL: correct compound operator specified • Group inner operator . 'beside' → 'plus' in Unicode name	1032
	PCSL:  NINDA₂×(HI.X)  CDLI:  NINDA₂×(HI.X)  UCS: 𒉣  PROTO-CUNEIFORM SIGN NINDA2 TIMES HI PLUS X • Has a fragmentary or missing portion • Group inner operator . 'beside' → 'plus' in Unicode name	1033

	PCSL:  NINDA <sub>2</sub> ×(HI~a1.AN.ME~a)  CDLI:  NINDA2xGUDU4  UCS: 𒉿𒀭 PROTO-CUNEIFORM SIGN NINDA2 TIMES HI-A1 PLUS AN PLUS ME-A	1034
	• Variant of	
	• Has a compound-only sign: ◇ HI~a1	
	• Group inner operator . ‘beside’ → ‘plus’ in Unicode name	
	PCSL:  NINDA <sub>2</sub> ×(HI~a1.ME~a)  CDLI:  NINDA2xGUDU4  UCS: 𒉿𒀭 PROTO-CUNEIFORM SIGN NINDA2 TIMES HI-A1 PLUS ME-A	1035
	• Variant of	
	• Has a compound-only sign: ◇ HI~a1	
	• Group inner operator . ‘beside’ → ‘plus’ in Unicode name	
	PCSL:  NINDA <sub>2</sub> ×KAŠ~b  CDLI:  NINDA2xKASZ~b  UCS: 𒉿ܵ PROTO-CUNEIFORM SIGN NINDA2 TIMES KASH-B	1036
	PCSL:  NINDA <sub>2</sub> ×MAR~b  CDLI:  NINDA2xMAR~b  UCS: 𒉿ܴ PROTO-CUNEIFORM SIGN NINDA2 TIMES MAR-B	1037
	PCSL:  NINDA <sub>2</sub> ×NE~a~v1  CDLI:  NINDA2xNE~a  Unicode status: not proposed due to chronological scope	1038
	PCSL:  NINDA <sub>2</sub> ×ŠIM~a~v2  CDLI:  NINDA2xSZIM~a  Unicode status: not proposed due to chronological scope	1039
	PCSL:  NINDA <sub>2</sub> ×U <sub>4</sub>   CDLI:  NINDA2xU4  UCS: 𒉿ܸ PROTO-CUNEIFORM SIGN NINDA2 TIMES U4	1040
	PCSL:  NINDA <sub>2</sub> ×(U <sub>4</sub> .X)  CDLI:  NINDA2x(U4.X)  UCS: 𒉿ܸ PROTO-CUNEIFORM SIGN NINDA2 TIMES U4 PLUS X	1041
	• Has a fragmentary or missing portion	
	• Group inner operator . ‘beside’ → ‘plus’ in Unicode name	
	PCSL:  NINDA <sub>2</sub> ×(UDU~a×TAR~a)  CDLI:  NINDA2x((UDU~axTAR)~a)  UCS: 𒉿ܸ PROTO-CUNEIFORM SIGN NINDA2 TIMES UDU-A TIMES TAR-A	1042
	• CDLI name normalized in PCSL: correct allograph specified	

	PCSL:  NINDA <sub>2</sub> ×(UDU~a×TAR~b)  CDLI:  NINDA2x((UDU~a×TAR)~b)  UCS: 𠂔 PROTO-CUNEIFORM SIGN NINDA2 TIMES UDU-A TIMES TAR-B • CDLI name normalized in PCSL: correct allograph specified • Has a compound-only sign: + TAR~b	1043
	PCSL:  NINDA <sub>2</sub> ×X  CDLI:  NINDA2xX  UCS: 𠂔 PROTO-CUNEIFORM SIGN NINDA2 TIMES X • Has a fragmentary or missing portion	1044
	PCSL:  NINDA <sub>2</sub> ×(X.MAŠ)  CDLI:  NINDA2x(X.MASZ)  Unicode status: not proposed due to chronological scope • Has a fragmentary or missing portion	1045
	PCSL:  NINDA <sub>2</sub> ×(ZATU659×1(N01))  CDLI:  NINDA2x(ZATU659×1(N01))  UCS: 𠂔 PROTO-CUNEIFORM SIGN NINDA2 TIMES ZATU659 TIMES ONE-N1	1046
	PCSL:  NINDA <sub>2</sub> ×1(N01)  CDLI:  NINDA2x1(N01)  UCS: 𠂔 PROTO-CUNEIFORM SIGN NINDA2 TIMES ONE-N1	1047
	PCSL:  NINDA <sub>2</sub> ×2(N01)  CDLI:  NINDA2x2(N01)  UCS: 𠂔 PROTO-CUNEIFORM SIGN NINDA2 TIMES TWO-N1	1048
	PCSL:  NINDA <sub>2</sub> ×1(N06)  CDLI:  NINDA2x1(N06)  Unicode status: not proposed due to chronological scope	1049
	PCSL:  NINDA <sub>2</sub> ×(1(N06).HI@g~a)  CDLI:  NINDA2x(HI@g~a.1(N06))  UCS: 𠂔 PROTO-CUNEIFORM SIGN NINDA2 TIMES ONE-N6 PLUS HI GUNU-A • CDLI name normalized in PCSL: compound elements reordered • Group inner operator . 'beside' → 'plus' in Unicode name	1050
	PCSL:  NINDA <sub>2</sub> ×1(N08)  CDLI:  NINDA2x1(N08)  UCS: 𠂔 PROTO-CUNEIFORM SIGN NINDA2 TIMES ONE-N8	1051

	PCSL: NINDA₂~v1 CDLI: NINDA2 UCS:  PROTO-CUNEIFORM SIGN NINDA2 VARIANT 1 • Variant of	1052
	PCSL: NINKUM CDLI: NINKUM UCS:  PROTO-CUNEIFORM SIGN NINKUM	1053
	PCSL: NINLIL CDLI: NINLIL UCS:  PROTO-CUNEIFORM SIGN NINLIL	1054
	PCSL: NIR~a CDLI: NIR~a UCS:  PROTO-CUNEIFORM SIGN NIR-A	1055
	PCSL:  NIR~axAN  CDLI:  NIR~axAN  UCS:  PROTO-CUNEIFORM SIGN NIR-A TIMES AN	1056
	PCSL: NIR~b CDLI: NIR~b UCS:  PROTO-CUNEIFORM SIGN NIR-B	1057
	PCSL: NU CDLI: NU UCS:  PROTO-CUNEIFORM SIGN NU	1058
	PCSL: NU@g CDLI: NU@g UCS:  PROTO-CUNEIFORM SIGN NU GUNU	1059
	PCSL: NU₁₁ CDLI: NU11 UCS:  PROTO-CUNEIFORM SIGN NU11	1060
	PCSL:  NU₁₁&NU₁₁  CDLI:  NU11&NU11  UCS:  PROTO-CUNEIFORM SIGN NU11 OVER NU11	1061

	PCSL: NU <sub>11</sub> @t CDLI: NU11@t UCS: ◇ PROTO-CUNEIFORM SIGN NU11 TENU	1062
	PCSL: NUMUN CDLI: NUMUN UCS: → PROTO-CUNEIFORM SIGN NUMUN	1063
	PCSL: NUMUN <sub>2</sub> CDLI: NUMUN2 UCS: 𣔁 PROTO-CUNEIFORM SIGN NUMUN2	1064
	PCSL: NUN~a CDLI: NUN~a UCS: 𠂇 PROTO-CUNEIFORM SIGN NUN-A	1065
	PCSL:  NUN~a+A  CDLI:  NUN~a+A  UCS: 𠁥  PROT CUNEIFORM SIGN NUN-A JOINING A	1066
	PCSL:  NUN~a+EN~a~v2  CDLI:  NUN~a+EN~a  UCS: 𠁦  PROT CUNEIFORM SIGN NUN-A JOINING EN-A VARIANT 2	1067
	PCSL:  NUN~a+EN~b~v1  CDLI:  NUN~a+EN~b  UCS: 𠁧  PROT CUNEIFORM SIGN NUN-A JOINING EN-B VARIANT 1	1068
	PCSL:  NUN~a+EN~d  CDLI:  NUN~a+EN~d  UCS: 𠁨  PROT CUNEIFORM SIGN NUN-A JOINING EN-D • Has a compound-only sign: 𠁩 EN~d	1069
	PCSL:  NUN~a+NAM <sub>2</sub>   CDLI:  NUN~a+NAM2  UCS: 𠁪  PROT CUNEIFORM SIGN NUN-A JOINING NAM2	1070
	PCSL: NUN~b CDLI: NUN~b UCS: 𠁤  PROT CUNEIFORM SIGN NUN-B	1071
	PCSL:  NUN~b+EN~a  CDLI:  NUN~b+EN~a  UCS: 𠁦  PROT CUNEIFORM SIGN NUN-B JOINING EN-A	1072

	PCSL: NUN~c CDLI: NUN~c UCS: 𒂔 PROTO-CUNEIFORM SIGN NUN-C	1073
	PCSL: NUN~c~v1 CDLI: NUN~c UCS: 𒂔  PROTOSIGN NUN-C VARIANT 1 • Variant of 𒂔 NUN~c	1074
	PCSL: NUN~c~v2 CDLI: NUN~c UCS: 𒂔  PROTOSIGN NUN-C VARIANT 2 • Variant of 𒂔 NUN~c	1075
	PCSL: NUN~c~v3 CDLI: NUN~c UCS: 𒂔  PROTOSIGN NUN-C VARIANT 3 • Variant of 𒂔 NUN~c	1076
	PCSL: NUN~d CDLI: NUN~d UCS: 𒂔  PROTOSIGN NUN-D	1077
	PCSL: NUNUZ~a0 CDLI: NUNUZ~a0 UCS: 𒂔  PROTOSIGN NUNUZ-A0	1078
	PCSL: NUNUZ~a1 CDLI: NUNUZ~a1 UCS: 𒂔  PROTOSIGN NUNUZ-A1	1079
	PCSL: NUNUZ~a1@t CDLI: NUNUZ~a1@t UCS: 𒂔  PROTOSIGN NUNUZ-A1 TENU	1080
	PCSL: NUNUZ~a2 CDLI: NUNUZ~a2 UCS: 𒂔  PROTOSIGN NUNUZ-A2	1081
	PCSL: NUNUZ~b1 CDLI: NUNUZ~b1 UCS: 𒂔  PROTOSIGN NUNUZ-B1	1082
	PCSL: NUNUZ~b2 CDLI: NUNUZ~b2 UCS: 𒂔  PROTOSIGN NUNUZ-B2	1083

	PCSL: NUNUZ~c CDLI: NUNUZ~c UCS: ☧ PROTO-CUNEIFORM SIGN NUNUZ-C	1084
	PCSL: NUNUZ~c~v1 CDLI: NUNUZ~c UCS: ☧ PROTO-CUNEIFORM SIGN NUNUZ-C VARIANT 1 • Variant of ☧ NUNUZ~c	1085
	PCSL: NUNUZ~c~v2 CDLI: NUNUZ~c UCS: ☧ PROTO-CUNEIFORM SIGN NUNUZ-C VARIANT 2 • Variant of ☧ NUNUZ~c	1086
	PCSL: NUNUZ~c~v3 CDLI: NUNUZ~c UCS: ☧ PROTO-CUNEIFORM SIGN NUNUZ-C VARIANT 3 • Variant of ☧ NUNUZ~c	1087
	PCSL: PA~a CDLI: PA~a UCS: ≡ PROTO-CUNEIFORM SIGN PA-A	1088
	PCSL: PA~a~v1 CDLI: PA~a UCS: ≡ PROTO-CUNEIFORM SIGN PA-A VARIANT 1 • Variant of ≡ PA~a	1089
	PCSL: PA~a~v2 CDLI: PA~a UCS: ≡ PROTO-CUNEIFORM SIGN PA-A VARIANT 2 • Variant of ≡ PA~a	1090
	PCSL: PA~b CDLI: PA~b UCS: ≡ PROTO-CUNEIFORM SIGN PA-B	1091
	PCSL: PA <sub>3</sub> CDLI: PA3 Unicode status: not proposed due to chronological scope	1092

	PCSL: PAD~a CDLI: PAD~a UCS: ◇ PROTO-CUNEIFORM SIGN PAD-A	1093
	PCSL: PAD~b CDLI: PAD~b UCS: ◇ PROTO-CUNEIFORM SIGN PAD-B	1094
	PCSL: PAP~a CDLI: PAP~a UCS: ═ PROTO-CUNEIFORM SIGN PAP-A	1095
	PCSL: PAP~a@t CDLI: PAP~a@t UCS: ╲ PROTO-CUNEIFORM SIGN PAP-A TENU	1096
	PCSL: PAP~b CDLI: PAP~b UCS: ╚ PROTO-CUNEIFORM SIGN PAP-B	1097
	PCSL: PAP~b~v1 CDLI: PAP~b UCS: ╚ PROTO-CUNEIFORM SIGN PAP-B VARIANT 1 • Variant of ╚ PAP~b	1098
	PCSL: PIRIG~a1 CDLI: PIRIG~a1 UCS: ☩ PROTO-CUNEIFORM SIGN PIRIG-A1	1099
	PCSL: PIRIG~a2 CDLI: PIRIG~a2 UCS: ☪ PROTO-CUNEIFORM SIGN PIRIG-A2	1100
	PCSL: PIRIG~a3 CDLI: PIRIG~a3 UCS: ☫ PROTO-CUNEIFORM SIGN PIRIG-A3	1101
	PCSL: PIRIG~b1 CDLI: PIRIG~b1 UCS: ☬ PROTO-CUNEIFORM SIGN PIRIG-B1	1102
	PCSL:  PIRIG~b1xUR <sub>2</sub>   CDLI:  PIRIG~b1xUR2  UCS: ☭ PROTO-CUNEIFORM SIGN PIRIG-B1 TIMES UR2	1103

	PCSL: PIRIG~b2 CDLI: PIRIG~b2 UCS:  PROTO-CUNEIFORM SIGN PIRIG-B2	1104
	PCSL: PU <sub>2</sub> CDLI: PU2 UCS:  PROTO-CUNEIFORM SIGN PU2	1105
	PCSL: RA CDLI: RA UCS:  PROTO-CUNEIFORM SIGN RA	1106
	PCSL: RAD~a CDLI: RAD~a UCS:  PROTO-CUNEIFORM SIGN RAD-A • Glyph changed to  from 	1107
	PCSL: RAD~a@g CDLI: RAD~a@g UCS:  PROTO-CUNEIFORM SIGN RAD-A GUNU	1108
	PCSL: RAD~a@t CDLI: RAD~a@t UCS:  PROTO-CUNEIFORM SIGN RAD-A TENU	1109
	PCSL: RAD~b CDLI: RAD~b UCS:  PROTO-CUNEIFORM SIGN RAD-B	1110
	PCSL: RI CDLI: RI Unicode status: not proposed due to chronological scope	1111
	PCSL: RI~x CDLI: RI~x Unicode status: not proposed: unified with  RI <sub>8</sub> ~b	1112
	PCSL: RI <sub>8</sub> ~a CDLI: RI8~a UCS:  PROTO-CUNEIFORM SIGN RI8-A	1113

	PCSL: RI <sub>8~b</sub> CDLI: RI8~b UCS: 𒃩 PROTO-CUNEIFORM SIGN RI8-B • Unifies 𒃩 RI~x	1114
	PCSL: RU CDLI: RU UCS: 𒃪 PROTO-CUNEIFORM SIGN RU	1115
	PCSL: RU@t CDLI: RU@t UCS: 𒃪 PROTO-CUNEIFORM SIGN RU TENU	1116
	PCSL: RU~v1 CDLI: RU UCS: 𒃪 PROTO-CUNEIFORM SIGN RU VARIANT 1 • Variant of 𒃪 RU	1117
	PCSL: SA~a CDLI: SA~a UCS: 𒃭 PROTO-CUNEIFORM SIGN SA-A	1118
	PCSL: SA~c CDLI: SA~c UCS: 𒃭 PROTO-CUNEIFORM SIGN SA-C	1119
	PCSL: SA~c~v1 CDLI: SA~c UCS: 𒃭 PROTO-CUNEIFORM SIGN SA-C VARIANT 1 • Variant of 𒃭 SA~c	1120
	PCSL: SAG CDLI: SAG UCS: 𒊩 PROTO-CUNEIFORM SIGN SAG	1121
	PCSL:  SAGxGEŠTU~a  CDLI:  SAGxGESZTU~a  UCS: 𒊩 PROTO-CUNEIFORM SIGN SAG TIMES GESHTU-A	1122
	PCSL:  SAGxSAR~a  CDLI:  SAGxSAR~a  Unicode status: not proposed due to chronological scope	1123



PCSL: SAG@g  
 CDLI: SAG@g  
 UCS: ☈ PROTO-CUNEIFORM SIGN SAG GUNU



PCSL: SAG@n  
 CDLI: SAG@n  
 UCS: ☉ PROTO-CUNEIFORM SIGN SAG NUTILLU



PCSL: |SAG@n x GEŠTU~b|  
 CDLI: |SAGxGESZTU~b|  
 UCS: =☞ PROTO-CUNEIFORM SIGN SAG NUTILLU TIMES GESHTU-B



PCSL: SAG~v1  
 CDLI: SAG  
 UCS: ☈ PROTO-CUNEIFORM SIGN SAG VARIANT 1  
 • Variant of ☈ SAG



PCSL: |SAG~v1 x GEŠTU~c|  
 CDLI: |SAGxGESZTU~c|  
 UCS: ☈ PROTO-CUNEIFORM SIGN SAG VARIANT 1 TIMES GESHTU-C  
 • Has a compound-only sign: ☈ GEŠTU~c



PCSL: |SAG~v1 x LAM~c|  
 CDLI: |SAGxLAM~c|  
 Unicode status: not proposed due to chronological scope



PCSL: |SAG~v1 x MA~v1|  
 CDLI: |SAGxMA|  
 UCS: ☈ PROTO-CUNEIFORM SIGN SAG VARIANT 1 TIMES MA VARIANT 1



PCSL: |SAG~v1 x 1(N14)|  
 CDLI: |SAGx1(N14)|  
 UCS: ☈ PROTO-CUNEIFORM SIGN SAG VARIANT 1 TIMES ONE-N14



PCSL: SAG~v2  
 CDLI: SAG  
 UCS: ☈ PROTO-CUNEIFORM SIGN SAG VARIANT 2  
 • Variant of ☈ SAG



PCSL: |SAG~v2 x GEŠTU~b|  
 CDLI: |SAGxGESZTU~b|  
 UCS: =☞ PROTO-CUNEIFORM SIGN SAG VARIANT 2 TIMES GESHTU-B  
 • Variant of =☞ |SAG@n x GEŠTU~b|

	PCSL: SAGŠU CDLI: SAGSZU UCS:  PROTO-CUNEIFORM SIGN SAGSHU	1134
	PCSL: SAL CDLI: SAL UCS:  PROTO-CUNEIFORM SIGN SAL	1135
	PCSL:  SAL.KUR~a  CDLI:  SAL.KUR~a  UCS:  PROTO-CUNEIFORM SIGN SAL BESIDE KUR-A	1136
	PCSL:  SAL.LAM~b  CDLI:  SAL.LAM~b  UCS:  PROTO-CUNEIFORM SIGN SAL BESIDE LAM-B	1137
	PCSL:  SAL.ŠU₂~b  CDLI:  SAL.SZU2  UCS:  PROTO-CUNEIFORM SIGN SAL BESIDE SHU2-B	1138
	PCSL:  SALx1(N58)  CDLI:  SALx1(N58)  UCS:  PROTO-CUNEIFORM SIGN SAL TIMES ONE-N58	1139
	PCSL: SANGA~a CDLI: SANGA~a UCS:  PROTO-CUNEIFORM SIGN SANGA-A	1140
	PCSL: SANGA~a~v1 CDLI: SANGA~a UCS:  PROTO-CUNEIFORM SIGN SANGA-A VARIANT 1 • Variant of  SANGA~a	1141
	PCSL: SANGA~a~v2 CDLI: SANGA~a UCS:  PROTO-CUNEIFORM SIGN SANGA-A VARIANT 2 • Variant of  SANGA~a	1142
	PCSL: SANGA~b CDLI: SANGA~b UCS:  PROTO-CUNEIFORM SIGN SANGA-B	1143
	PCSL: SANGA~b~v1 CDLI: SANGA~b UCS:  PROTO-CUNEIFORM SIGN SANGA-B VARIANT 1 • Variant of  SANGA~b	1144

	PCSL: SANGA~c CDLI: SANGA~c UCS: 𒊩  PROTO-CUNEIFORM SIGN SANGA-C	1145
	PCSL: SAR~a CDLI: SAR~a UCS: 𒊩  PROTO-CUNEIFORM SIGN SAR-A	1146
	PCSL:  SAR~axŠE~a  CDLI:  SAR~axSZE~a  UCS: 𒊩  PROTO-CUNEIFORM SIGN SAR-A TIMES SHE-A	1147
	PCSL: SAR~b CDLI: SAR~b UCS: 𒊩  PROTO-CUNEIFORM SIGN SAR-B	1148
	PCSL: SAR~c CDLI: SAR~c UCS: 𒊩  PROTO-CUNEIFORM SIGN SAR-C	1149
	PCSL: SI CDLI: SI UCS: 𒊩  PROTO-CUNEIFORM SIGN SI	1150
	PCSL:  SIxGU <sub>4</sub>   CDLI:  SIXGU4  UCS: 𒊩  PROTO-CUNEIFORM SIGN SI TIMES GU4	1151
	PCSL:  SIxŠE <sub>3</sub> ~v1  CDLI:  SIXSZE3  UCS: 𒊩  PROTO-CUNEIFORM SIGN SI TIMES SHE3 VARIANT 1	1152
	PCSL: SI~v1 CDLI: SI UCS: 𒊩  PROTO-CUNEIFORM SIGN SI VARIANT 1 • Variant of 𒊩 SI	1153
	PCSL: SI <sub>4</sub> ~a CDLI: SI4~a UCS: 𒊩  PROTO-CUNEIFORM SIGN SI4-A	1154

	PCSL: SI <sub>4</sub> ~b CDLI: SI4~b UCS:  PROTO-CUNEIFORM SIGN SI4-B	1155
	PCSL: SI <sub>4</sub> ~c CDLI: SI4~c UCS:  PROTO-CUNEIFORM SIGN SI4-C	1156
	PCSL: SI <sub>4</sub> ~d CDLI: SI4~d UCS:  PROTO-CUNEIFORM SIGN SI4-D	1157
	PCSL: SI <sub>4</sub> ~d~v1 CDLI: SI4~d UCS:  PROTO-CUNEIFORM SIGN SI4-D VARIANT 1 • Variant of  SI <sub>4</sub> ~d	1158
	PCSL: SI <sub>4</sub> ~f CDLI: SI4~f UCS:  PROTO-CUNEIFORM SIGN SI4-F	1159
	PCSL: SI <sub>4</sub> ~f~v1 CDLI: SI4~f UCS:  PROTO-CUNEIFORM SIGN SI4-F VARIANT 1 • Variant of  SI <sub>4</sub> ~f	1160
	PCSL: SIG CDLI: SIG UCS:  PROTO-CUNEIFORM SIGN SIG	1161
	PCSL: SIG@g CDLI: SIG@g UCS:  PROTO-CUNEIFORM SIGN SIG GUNU	1162
	PCSL: SIG <sub>2</sub> ~a1 CDLI: SIG2~a1 UCS:  PROTO-CUNEIFORM SIGN SIG2-A1	1163
	PCSL: SIG <sub>2</sub> ~a2 CDLI: SIG2~a2 UCS:  PROTO-CUNEIFORM SIGN SIG2-A2	1164

	PCSL: SIG <sub>2</sub> ~a3 CDLI: SIG2~a3 UCS: 𒂗 PROTO-CUNEIFORM SIGN SIG2-A3	1165
	PCSL: SIG <sub>2</sub> ~a3~v1 CDLI: SIG2~a3 UCS: 𒂗 PROTO-CUNEIFORM SIGN SIG2-A3 VARIANT 1 • Variant of 𒂗 SIG <sub>2</sub> ~a3	1166
	PCSL: SIG <sub>2</sub> ~a3~v2 CDLI: SIG2~a3 UCS: 𒂗 PROTO-CUNEIFORM SIGN SIG2-A3 VARIANT 2 • Variant of 𒂗 SIG <sub>2</sub> ~a3	1167
	PCSL: SIG <sub>2</sub> ~a4 CDLI: SIG2~a4 UCS: 𒂗 PROTO-CUNEIFORM SIGN SIG2-A4	1168
	PCSL: SIG <sub>2</sub> ~b CDLI: SIG2~b UCS: 𒂗 PROTO-CUNEIFORM SIGN SIG2-B	1169
	PCSL:  SIG <sub>2</sub> ~b×1(N14)  CDLI:  SIG2~bx1(N14)  UCS: 𒂗 PROTO-CUNEIFORM SIGN SIG2-B TIMES ONE-N14	1170
	PCSL:  SIG <sub>2</sub> ~b&SIG <sub>2</sub> ~b  CDLI:  SIG2~b.SIG2~b  UCS: 𒂗 PROTO-CUNEIFORM SIGN SIG2-B OVER SIG2-B • CDLI name normalized in PCSL: correct compound operator specified	1171
	PCSL: SIG <sub>2</sub> ~c1 CDLI: SIG2~c1 UCS: 𒂗 PROTO-CUNEIFORM SIGN SIG2-C1	1172
	PCSL: SIG <sub>2</sub> ~c2 CDLI: SIG2~c2 UCS: 𒂗 PROTO-CUNEIFORM SIGN SIG2-C2	1173
	PCSL: SIG <sub>2</sub> ~d1 CDLI: SIG2~d1 UCS: 𒂗 PROTO-CUNEIFORM SIGN SIG2-D1	1174

	PCSL: SIG <sub>2</sub> ~d2 CDLI: SIG2~d2 UCS: ☈ PROTO-CUNEIFORM SIGN SIG2-D2	1175
	PCSL: SIG <sub>2</sub> ~d2~v1 CDLI: SIG2~d2 UCS: ☉ PROTO-CUNEIFORM SIGN SIG2-D2 VARIANT 1 • Variant of ☈ SIG <sub>2</sub> ~d2	1176
	PCSL: SIG <sub>2</sub> ~d3 CDLI: SIG2~d3 UCS: ☊ PROTO-CUNEIFORM SIGN SIG2-D3	1177
	PCSL: SIG <sub>2</sub> ~d4 CDLI: SIG2~d4 UCS: ☋ PROTO-CUNEIFORM SIGN SIG2-D4	1178
	PCSL: SIG <sub>2</sub> ~e CDLI: SIG2~e UCS: ☌ PROTO-CUNEIFORM SIGN SIG2-E	1179
	PCSL: SIG <sub>4</sub> CDLI: SIG4 UCS: ☍ PROTO-CUNEIFORM SIGN SIG4	1180
	PCSL: SIG <sub>7</sub> CDLI: SIG7 UCS: ☎ PROTO-CUNEIFORM SIGN SIG7	1181
	PCSL: SIG <sub>7</sub> ~v1 CDLI: SIG7 UCS: ☏ PROTO-CUNEIFORM SIGN SIG7 VARIANT 1 • Variant of ☎ SIG <sub>7</sub>	1182
	PCSL: SIKIL CDLI: SIKIL Unicode status: not proposed due to chronological scope	1183
	PCSL: SILA <sub>3</sub> ~a CDLI: SILA3~a UCS: ☗ PROTO-CUNEIFORM SIGN SILA3-A	1184

	PCSL:  SILA <sub>3</sub> ~axA  CDLI:  SILA3~axA  UCS: ◃► PROTO-CUNEIFORM SIGN SILA3-A TIMES A	1185
	PCSL:  SILA <sub>3</sub> ~axAMAR  CDLI:  SILA3~axAMAR  UCS: ≫► PROTO-CUNEIFORM SIGN SILA3-A TIMES AMAR	1186
	PCSL:  SILA <sub>3</sub> ~axDUG~a ~v1 CDLI:  SILA3~axDUG~a  UCS: ≈► PROTO-CUNEIFORM SIGN SILA3-A TIMES DUG-A VARIANT 1	1187
	PCSL:  SILA <sub>3</sub> ~axDUG~b  CDLI:  SILA3~axDUG~b  Unicode status: not proposed due to chronological scope	1188
	PCSL:  SILA <sub>3</sub> ~axGA~a~v3  CDLI:  SILA3~axGA~a  UCS: ≪► PROTO-CUNEIFORM SIGN SILA3-A TIMES GA-A VARIANT 3	1189
	PCSL:  SILA <sub>3</sub> ~axGARA <sub>2</sub> ~a  CDLI:  SILA3~axGARA2~a  UCS: ≡► PROTO-CUNEIFORM SIGN SILA3-A TIMES GARA2-A	1190
	PCSL:  SILA <sub>3</sub> ~axGEŠTU~a~v2  CDLI:  SILA3~axGESZTU~a  UCS: ≧► PROTO-CUNEIFORM SIGN SILA3-A TIMES GESHTU-A VARIANT 2	1191
	PCSL:  SILA <sub>3</sub> ~axGEŠTU~c3  CDLI:  SILA3~axGESZTU~c3  UCS: ≣► PROTO-CUNEIFORM SIGN SILA3-A TIMES GESHTU-C3	1192
	PCSL:  SILA <sub>3</sub> ~axGEŠTU~c5  CDLI:  SILA3~axGESZTU~c5  UCS: ≦► PROTO-CUNEIFORM SIGN SILA3-A TIMES GESHTU-C5	1193
	PCSL:  SILA <sub>3</sub> ~axHAŠHUR  CDLI:  SILA3~axHASZHUR  UCS: ≪► PROTO-CUNEIFORM SIGN SILA3-A TIMES HASHHUR	1194
	PCSL:  SILA <sub>3</sub> ~axHI  CDLI:  SILA3~axHI  UCS: ◇► PROTO-CUNEIFORM SIGN SILA3-A TIMES HI	1195

	PCSL:  SILA <sub>3</sub> ~axHI@g~a  CDLI:  SILA3~axHI@g~a  UCS: ◇ PROTO-CUNEIFORM SIGN SILA3-A TIMES HI GUNU-A	1196
	PCSL:  SILA <sub>3</sub> ~axIB~a  CDLI:  SILA3~axIB~a  UCS: ◇ PROTO-CUNEIFORM SIGN SILA3-A TIMES IB-A	1197
	PCSL:  SILA <sub>3</sub> ~axKAŠ~a  CDLI:  SILA3~axKASZ~a  UCS: ◇ PROTO-CUNEIFORM SIGN SILA3-A TIMES KASH-A	1198
	PCSL:  SILA <sub>3</sub> ~axKAŠ~c  CDLI:  SILA3~axKASZ~c  UCS: ◇ PROTO-CUNEIFORM SIGN SILA3-A TIMES KASH-C	1199
	PCSL:  SILA <sub>3</sub> ~axKAŠ~d  CDLI:  SILA3~axKASZ~d  UCS: ◇ PROTO-CUNEIFORM SIGN SILA3-A TIMES KASH-D	1200
	PCSL:  SILA <sub>3</sub> ~axKU <sub>6</sub> ~a  CDLI:  SILA3~axKU6~a  UCS: ◇ PROTO-CUNEIFORM SIGN SILA3-A TIMES KU6-A	1201
	PCSL:  SILA <sub>3</sub> ~axKUR~a  CDLI:  SILA3~axKUR~a  UCS: ◇ PROTO-CUNEIFORM SIGN SILA3-A TIMES KUR-A	1202
	PCSL:  SILA <sub>3</sub> ~axMA~v1  CDLI:  SILA3~axMA  UCS: ~◇ PROTO-CUNEIFORM SIGN SILA3-A TIMES MA VARIANT 1	1203
	PCSL:  SILA <sub>3</sub> ~axMAŠ  CDLI:  SILA3~axMASZ  UCS: +◇ PROTO-CUNEIFORM SIGN SILA3-A TIMES MASH	1204
	PCSL:  SILA <sub>3</sub> ~axNAGA~a  CDLI:  SILA3~axNAGA~a  UCS: ◇ PROTO-CUNEIFORM SIGN SILA3-A TIMES NAGA-A	1205
	PCSL:  SILA <sub>3</sub> ~axNI~a  CDLI:  SILA3~axNI~a  UCS: ◇ PROTO-CUNEIFORM SIGN SILA3-A TIMES NI-A	1206

	PCSL:  SILA <sub>3</sub> ~axNUN~b  CDLI:  SILA3~axNUN~b  UCS: ➔ PROTO-CUNEIFORM SIGN SILA3-A TIMES NUN-B	1207
	PCSL:  SILA <sub>3</sub> ~axSUHUR  CDLI:  SILA3~axSUHUR  UCS: ➔ PROTO-CUNEIFORM SIGN SILA3-A TIMES SUHUR	1208
	PCSL:  SILA <sub>3</sub> ~axSUM~a~v1  CDLI:  SILA3~axSUM~a  UCS: ➔ PROTO-CUNEIFORM SIGN SILA3-A TIMES SUM-A VARIANT 1	1209
	PCSL:  SILA <sub>3</sub> ~axSUM~b  CDLI:  SILA3~axSUM~b  UCS: ➔ PROTO-CUNEIFORM SIGN SILA3-A TIMES SUM-B	1210
	PCSL:  SILA <sub>3</sub> ~axŠE~a  CDLI:  SILA3~axSZE~a  UCS: ➔ PROTO-CUNEIFORM SIGN SILA3-A TIMES SHE-A	1211
	PCSL:  SILA <sub>3</sub> ~axŠE~a@t  CDLI:  SILA3~axSZE~a@t  UCS: ➔ PROTO-CUNEIFORM SIGN SILA3-A TIMES SHE-A TENU	1212
	PCSL:  SILA <sub>3</sub> ~axŠU  CDLI:  SILA3~axSZU  UCS: ➔ PROTO-CUNEIFORM SIGN SILA3-A TIMES SHU	1213
	PCSL:  SILA <sub>3</sub> ~axŠU <sub>2</sub> ~b  CDLI:  SILA3~axSZU2  UCS: ➔ PROTO-CUNEIFORM SIGN SILA3-A TIMES SHU2-B	1214
	PCSL:  SILA <sub>3</sub> ~axX  CDLI:  SILA3~axX  UCS: ➔ PROTO-CUNEIFORM SIGN SILA3-A TIMES X • Has a fragmentary or missing portion	1215
	PCSL:  SILA <sub>3</sub> ~axZATU629~v1  CDLI:  SILA3~axZATU629  UCS: ➔ PROTO-CUNEIFORM SIGN SILA3-A TIMES ZATU629 VARIANT 1	1216
	PCSL:  SILA <sub>3</sub> ~axZATU646  CDLI:  SILA3~axZATU646  UCS: ➔ PROTO-CUNEIFORM SIGN SILA3-A TIMES ZATU646	1217

	PCSL:  SILA <sub>3</sub> ~ax(ZATU659.TU~c~v1)  CDLI:  SILA3~ax(ZATU659.TU~c)  UCS: ☠ PROTO-CUNEIFORM SIGN SILA3-A TIMES ZATU659 PLUS TU-C VARIANT 1 • Has a compound-only sign: ☠ TU~c~v1 • Group inner operator . 'beside' → 'plus' in Unicode name	1218
	PCSL:  SILA <sub>3</sub> ~ax1(N57)  CDLI:  SILA3~ax1(N57)  UCS: ☠ PROTO-CUNEIFORM SIGN SILA3-A TIMES ONE-N57	1219
	PCSL:  SILA <sub>3</sub> ~ax1(N58)  CDLI:  SILA3~ax1(N58)  UCS: ☠ PROTO-CUNEIFORM SIGN SILA3-A TIMES ONE-N58	1220
	PCSL:  SILA <sub>3</sub> ~a~v1xDUG~a  CDLI:  SILA3~axDUG~a  UCS: ☠ PROTO-CUNEIFORM SIGN SILA3-A VARIANT 1 TIMES DUG-A • Variant of ☠  SILA <sub>3</sub> ~a~v1xDUG~a  • Has a compound-only sign: ☠ SILA <sub>3</sub> ~a~v1	1221
	PCSL: SILA <sub>3</sub> ~b CDLI: SILA3~b UCS: ☠ PROTO-CUNEIFORM SIGN SILA3-B	1222
	PCSL:  SILA <sub>3</sub> ~bxDUG~a  CDLI:  SILA3~bxDUG~a  Unicode status: not proposed due to chronological scope	1223
	PCSL:  SILA <sub>3</sub> ~bxGUG <sub>2</sub>   CDLI:  SILA3~bxGUG2  UCS: ☠ PROTO-CUNEIFORM SIGN SILA3-B TIMES GUG2	1224
	PCSL:  SILA <sub>3</sub> ~bxNAGA~b  CDLI:  SILA3~bxNAGA~b  UCS: ☠ PROTO-CUNEIFORM SIGN SILA3-B TIMES NAGA-B	1225
	PCSL:  SILA <sub>3</sub> ~bxNI~b  CDLI:  SILA3~bxNI~b  UCS: ☠ PROTO-CUNEIFORM SIGN SILA3-B TIMES NI-B	1226
	PCSL: SILA <sub>3</sub> ~c CDLI: SILA3~c UCS: ☠ PROTO-CUNEIFORM SIGN SILA3-C	1227

	PCSL:  SILA <sub>3</sub> ~c×NI~a  CDLI:  SILA3~bxNI~a  UCS: ☠ PROTO-CUNEIFORM SIGN SILA3-C TIMES NI-A • CDLI name normalized in PCSL: correct allograph specified	1228
	PCSL:  SILA <sub>3</sub> ~c×ŠU  CDLI:  SILA3~cxSZU  UCS: ☠ PROTO-CUNEIFORM SIGN SILA3-C TIMES SHU	1229
	PCSL:  SILA <sub>3</sub> ~c×ZATU687  CDLI:  SILA3~cxZATU687  UCS: ☠ PROTO-CUNEIFORM SIGN SILA3-C TIMES ZATU687	1230
	PCSL:  SILA <sub>3</sub> ~d×NI~a  CDLI:  SILA3~dxNI~a  UCS: ☠ PROTO-CUNEIFORM SIGN SILA3-D TIMES NI-A • Has a compound-only sign: > SILA <sub>3</sub> ~d	1231
	PCSL: SILA <sub>4</sub> ~a CDLI: SILA4~a UCS: ☠ PROTO-CUNEIFORM SIGN SILA4-A	1232
	PCSL: SILA <sub>4</sub> ~b CDLI: SILA4~b UCS: ☠ PROTO-CUNEIFORM SIGN SILA4-B	1233
	PCSL: SILA <sub>4</sub> ~c CDLI: SILA4~c UCS: ☠ PROTO-CUNEIFORM SIGN SILA4-C	1234
	PCSL: SILA <sub>4</sub> ~d CDLI: SILA4~d UCS: ☠ PROTO-CUNEIFORM SIGN SILA4-D	1235
	PCSL: SILANITA CDLI: SILANITA UCS: ☠ PROTO-CUNEIFORM SIGN SILANITA	1236
	PCSL: SIMUG CDLI: SIMUG UCS: ☠ PROTO-CUNEIFORM SIGN SIMUG	1237

	PCSL: SIMUG~v1 CDLI: SIMUG UCS: 𒂔 PROTO-CUNEIFORM SIGN SIMUG VARIANT 1 • Variant of 𒂔 SIMUG	1238
	PCSL: SIPA CDLI: SIPA UCS: 𒀭 PROTO-CUNEIFORM SIGN SIPA	1239
	PCSL: SU~a CDLI: SU~a UCS: 𒊩 PROTO-CUNEIFORM SIGN SU-A	1240
	PCSL:  SU~a×1(N58)  CDLI:  SU~a×1(N58)  UCS: 𒊩 PROTO-CUNEIFORM SIGN SU-A TIMES ONE-N58	1241
	PCSL: SU~a~v1 CDLI: SU~a UCS: 𒊩 PROTO-CUNEIFORM SIGN SU-A VARIANT 1 • Variant of 𒊩 SU~a	1242
	PCSL: SU~b CDLI: SU~b UCS: 𒊩 PROTO-CUNEIFORM SIGN SU-B	1243
	PCSL: SU <sub>3</sub> CDLI: SU3 UCS: 𒊩 PROTO-CUNEIFORM SIGN SU3	1244
	PCSL: SUG CDLI: SUG UCS: 𒊩 PROTO-CUNEIFORM SIGN SUG	1245
	PCSL: SUG <sub>5</sub> CDLI: SUG5 UCS: 𒊩 PROTO-CUNEIFORM SIGN SUG5	1246
	PCSL: SUH <sub>3</sub> CDLI: SUH3 UCS: 𒊩 PROTO-CUNEIFORM SIGN SUH3	1247

	PCSL: SUHUR CDLI: SUHUR UCS:  PROTO-CUNEIFORM SIGN SUHUR	1248
	PCSL: SUHUR@g CDLI: SUHUR@g UCS:  PROTO-CUNEIFORM SIGN SUHUR GUNU	1249
	PCSL: SUHUR@n CDLI: SUHUR@n UCS:  PROTO-CUNEIFORM SIGN SUHUR NUTILLU	1250
	PCSL: SUKKAL CDLI: SUKKAL UCS:  PROTO-CUNEIFORM SIGN SUKKAL	1251
	PCSL: SUKUD CDLI: SUKUD UCS:  PROTO-CUNEIFORM SIGN SUKUD	1252
	PCSL:  (SUKUD+SUKUD)~a  CDLI:  (SUKUD+SUKUD)~a  UCS:  PROTO-CUNEIFORM SIGN SUKUD JOINING SUKUD FORM A	1253
	PCSL:  (SUKUD+SUKUD)~b  CDLI:  (SUKUD+SUKUD)~b  UCS:  PROTO-CUNEIFORM SIGN SUKUD JOINING SUKUD FORM B	1254
	PCSL:  (SUKUD+SUKUD)~c  CDLI:  (SUKUD+SUKUD)~c  Unicode status: not proposed due to chronological scope	1255
	PCSL:  (SUKUD+SUKUD)~d  CDLI:  (SUKUD+SUKUD)~d  UCS:  PROTO-CUNEIFORM SIGN SUKUD JOINING SUKUD FORM D	1256
	PCSL: SUKUD@g~a CDLI: SUKUD@g~a UCS:  PROTO-CUNEIFORM SIGN SUKUD GUNU-A	1257
	PCSL: SUKUD@g~b CDLI: SUKUD@g~b UCS:  PROTO-CUNEIFORM SIGN SUKUD GUNU-B	1258

	PCSL: SUKUD@g~b~v1 CDLI: SUKUD@g~b UCS:  PROTO-CUNEIFORM SIGN SUKUD GUNU-B VARIANT 1 • Variant of  SUKUD@g~b	1259
	PCSL: SUKUD@g~c CDLI: SUKUD@g~c UCS:  PROTO-CUNEIFORM SIGN SUKUD GUNU-C	1260
	PCSL: SUKUD@g~d CDLI: SUKUD@g~d UCS:  PROTO-CUNEIFORM SIGN SUKUD GUNU-D	1261
	PCSL: SUM~a CDLI: SUM~a UCS:  PROTO-CUNEIFORM SIGN SUM-A	1262
	PCSL: SUM~a@t CDLI: SUM~a@t UCS:  PROTO-CUNEIFORM SIGN SUM-A TENU	1263
	PCSL: SUM~a~v1 CDLI: SUM~a UCS:  PROTO-CUNEIFORM SIGN SUM-A VARIANT 1 • Variant of  SUM~a	1264
	PCSL: SUM~b CDLI: SUM~b UCS:  PROTO-CUNEIFORM SIGN SUM-B	1265
	PCSL: SUMAŠ CDLI: SUMASZ UCS:  PROTO-CUNEIFORM SIGN SUMASH	1266
	PCSL: SUR CDLI: SUR UCS:  PROTO-CUNEIFORM SIGN SUR	1267
	PCSL: SUSA CDLI: SUSA UCS:  PROTO-CUNEIFORM SIGN SUSA	1268

	PCSL: ŠA CDLI: SZA UCS: 𒂔 PROTO-CUNEIFORM SIGN SHA	1269
	PCSL:  (ŠA×HI@g~a)~a  CDLI:  (SZA×HI@g~a)~a  UCS: 𒂔 PROTO-CUNEIFORM SIGN SHA TIMES HI GUNU-A FORM A	1270
	PCSL:  (ŠA×HI@g~a)~b  CDLI:  (SZA×HI@g~a)~b  UCS: 𒂔 PROTO-CUNEIFORM SIGN SHA TIMES HI GUNU-A FORM B	1271
	PCSL: ŠA@g CDLI: SZA@g UCS: 𒂔 PROTO-CUNEIFORM SIGN SHA GUNU	1272
	PCSL: ŠA~v1 CDLI: SZA UCS: 𒂔 PROTO-CUNEIFORM SIGN SHA VARIANT 1 • Variant of 𒂔 ŠA	1273
	PCSL: ŠA~v2 CDLI: SZA UCS: 𒂔 PROTO-CUNEIFORM SIGN SHA VARIANT 2 • Variant of 𒂔 ŠA	1274
	PCSL: ŠA <sub>3</sub> ~a1 CDLI: SZA <sub>3</sub> ~a1 UCS: ܶ PROTO-CUNEIFORM SIGN SHA3-A1	1275
	PCSL: ŠA <sub>3</sub> ~a2 CDLI: SZA <sub>3</sub> ~a2 UCS: ܶ PROTO-CUNEIFORM SIGN SHA3-A2	1276
	PCSL: ŠA <sub>3</sub> ~b CDLI: SZA <sub>3</sub> ~b UCS: ܶ PROTO-CUNEIFORM SIGN SHA3-B	1277
	PCSL: ŠA <sub>3</sub> ~c CDLI: SZA <sub>3</sub> ~c UCS: ܶ PROTO-CUNEIFORM SIGN SHA3-C	1278

	PCSL: ŠA₃~d CDLI: SZA3~d UCS: ☶ PROTO-CUNEIFORM SIGN SHA3-D	1279
	PCSL: ŠAB~a CDLI: SZAB~a UCS: ☷ PROTO-CUNEIFORM SIGN SHAB-A	1280
	PCSL: ŠAB~a~v1 CDLI: SZAB~a UCS: ☸ PROTO-CUNEIFORM SIGN SHAB-A VARIANT 1 • Variant of ☷ ŠAB~a	1281
	PCSL: ŠAB~b CDLI: SZAB~b UCS: ☸ PROTO-CUNEIFORM SIGN SHAB-B	1282
	PCSL: ŠAB~b~v1 CDLI: SZAB~b UCS: ☹ PROTO-CUNEIFORM SIGN SHAB-B VARIANT 1 • Variant of ☸ ŠAB~b	1283
	PCSL: ŠAGAN CDLI: SZAGAN UCS: ☺ PROTO-CUNEIFORM SIGN SHAGAN	1284
	PCSL: ŠAGAN~v1 CDLI: SZAGAN UCS: ☻ PROTO-CUNEIFORM SIGN SHAGAN VARIANT 1 • Variant of ☺ ŠAGAN	1285
	PCSL: ŠAGINA CDLI: SZAGINA UCS: ☼ PROTO-CUNEIFORM SIGN SHAGINA	1286
	PCSL: ŠAH₂~a CDLI: SZAH2~a UCS: ☽ PROTO-CUNEIFORM SIGN SHAH2-A	1287
	PCSL: ŠAH₂~b CDLI: SZAH2~b UCS: ☾ PROTO-CUNEIFORM SIGN SHAH2-B	1288

	PCSL: ŠAH <sub>2</sub> ~c CDLI: SZAH2~c UCS:  PROTO-CUNEIFORM SIGN SHAH2-C	1289
	PCSL: ŠAKIR~a CDLI: SZAKIR~a UCS:  PROTO-CUNEIFORM SIGN SHAKIR-A	1290
	PCSL: ŠAKIR~b CDLI: SZAKIR~b UCS:  PROTO-CUNEIFORM SIGN SHAKIR-B	1291
	PCSL: ŠAKIR~c CDLI: SZAKIR~c UCS:  PROTO-CUNEIFORM SIGN SHAKIR-C	1292
	PCSL: ŠAM <sub>2</sub> CDLI: SZAM2 UCS:  PROTO-CUNEIFORM SIGN SHAM2	1293
	PCSL: ŠANDANA~a CDLI: SZANDANA~a UCS:  PROTO-CUNEIFORM SIGN SHANDANA-A	1294
	PCSL: ŠANDANA~b CDLI: SZANDANA~b UCS:  PROTO-CUNEIFORM SIGN SHANDANA-B	1295
	PCSL: ŠE~a CDLI: SZE~a UCS:  PROTO-CUNEIFORM SIGN SHE-A	1296
	PCSL:  ŠE~a.KIN <sub>2</sub> ~c  CDLI:  SZE~a.KIN2~c  UCS:  PROTO-CUNEIFORM SIGN SHE-A BESIDE KIN2-C	1297
	PCSL:  ŠE~a.NAM <sub>2</sub>   CDLI:  SZE~a.NAM2  UCS:  PROTO-CUNEIFORM SIGN SHE-A BESIDE NAM2	1298
	PCSL:  ŠE~a.NAM <sub>2</sub>  ~v1 CDLI:  SZE~a.NAM2  UCS:  PROTO-CUNEIFORM SIGN SHE-A BESIDE NAM2 VARIANT 1 • Variant of   ŠE~a.NAM <sub>2</sub>	1299

	PCSL:  ŠE~a&ŠE~a  CDLI:  SZE~a&SZE~a  UCS: ☧ PROTO-CUNEIFORM SIGN SHE-A OVER SHE-A	1300
	PCSL: ŠE~a@t CDLI: SZE~a@t UCS: ☧ PROTO-CUNEIFORM SIGN SHE-A TENU	1301
	PCSL: ŠE~b CDLI: SZE~b UCS: ☧ PROTO-CUNEIFORM SIGN SHE-B	1302
	PCSL: ŠE~c CDLI: SZE~c UCS: ☥ PROTO-CUNEIFORM SIGN SHE-C	1303
	PCSL: ŠE <sub>3</sub> CDLI: SZE3 UCS: ☦ PROTO-CUNEIFORM SIGN SHE3	1304
	PCSL: ŠE <sub>3</sub> @t CDLI: SZE3@t UCS: ☦ PROTO-CUNEIFORM SIGN SHE3 TENU	1305
	PCSL: ŠE <sub>3</sub> ~v1 CDLI: SZE3 UCS: ☦ PROTO-CUNEIFORM SIGN SHE3 VARIANT 1 • Variant of ☦ ŠE <sub>3</sub>	1306
	PCSL: ŠE <sub>3</sub> ~v1@t CDLI: SZE3@t UCS: ☦ PROTO-CUNEIFORM SIGN SHE3 VARIANT 1 TENU • Variant of ☦ ŠE <sub>3</sub> @t	1307
	PCSL: ŠEG <sub>9</sub> CDLI: SZEG9 UCS: ☦ PROTO-CUNEIFORM SIGN SHEG9	1308
	PCSL: ŠELU CDLI: SZELU UCS: ☦ PROTO-CUNEIFORM SIGN SHELU	1309

	PCSL: ŠEN~a CDLI: SZEN~a UCS: 𒂔 PROTO-CUNEIFORM SIGN SHEN-A	1310
	PCSL: ŠEN~a~v1 CDLI: SZEN~a UCS: 𒂔 PROTO-CUNEIFORM SIGN SHEN-A VARIANT 1 • Variant of 𒂔 ŠEN~a	1311
	PCSL: ŠEN~b CDLI: SZEN~b UCS: 𒂔 PROTO-CUNEIFORM SIGN SHEN-B	1312
	PCSL: ŠEN~b~v1 CDLI: SZEN~b UCS: 𒂔 PROTO-CUNEIFORM SIGN SHEN-B VARIANT 1 • Variant of 𒂔 ŠEN~b	1313
	PCSL: ŠEN~c CDLI: SZEN~c UCS: 𒂔 PROTO-CUNEIFORM SIGN SHEN-C	1314
	PCSL: ŠEN~c@t CDLI: SZEN~c@t UCS: 𒂔 PROTO-CUNEIFORM SIGN SHEN-C TENU	1315
	PCSL: ŠEN~d CDLI: SZEN~d UCS: 𒂔 PROTO-CUNEIFORM SIGN SHEN-D	1316
	PCSL:  ŠEN~dxA  CDLI:  SZEN~dxA  UCS: 𒂔 PROTO-CUNEIFORM SIGN SHEN-D TIMES A	1317
	PCSL: ŠEN~d~v1 CDLI: SZEN~d UCS: 𒂔 PROTO-CUNEIFORM SIGN SHEN-D VARIANT 1 • Variant of 𒂔 ŠEN~d	1318
	PCSL: ŠEN~d~v2 CDLI: SZEN~d UCS: 𒂔 PROTO-CUNEIFORM SIGN SHEN-D VARIANT 2 • Variant of 𒂔 ŠEN~d	1319

	PCSL: ŠEN~e CDLI: SZEN~e UCS:  PROTO-CUNEIFORM SIGN SHEN-E	1320
	PCSL: ŠENNUR~a CDLI: SZENNUR~a UCS:  PROTO-CUNEIFORM SIGN SHENNUR-A	1321
	PCSL: ŠENNUR~b CDLI: SZENNUR~b UCS:  PROTO-CUNEIFORM SIGN SHENNUR-B	1322
	PCSL: ŠEŠ~a CDLI: SZESZ~a UCS:  PROTO-CUNEIFORM SIGN SHESH-A	1323
	PCSL: ŠEŠ~a~v1 CDLI: SZESZ~a UCS:  PROTO-CUNEIFORM SIGN SHESH-A VARIANT 1 • Variant of  ŠEŠ~a	1324
	PCSL: ŠEŠ~b CDLI: SZESZ~b UCS:  PROTO-CUNEIFORM SIGN SHESH-B	1325
	PCSL: ŠIDIM CDLI: SZIDIM UCS:  PROTO-CUNEIFORM SIGN SHIDIM	1326
	PCSL: ŠIDIM@t CDLI: SZIDIM@t UCS:  PROTO-CUNEIFORM SIGN SHIDIM TENU	1327
	PCSL: ŠIM~a CDLI: SZIM~a UCS:  PROTO-CUNEIFORM SIGN SHIM-A	1328
	PCSL: ŠIM~a~v1 CDLI: SZIM~a UCS:  PROTO-CUNEIFORM SIGN SHIM-A VARIANT 1 • Variant of  ŠIM~a	1329

	PCSL: ŠIM~a~v2 CDLI: SZIM~a UCS: 𒂔 PROTO-CUNEIFORM SIGN SHIM-A VARIANT 2 • Variant of  ŠIM~a	1330
	PCSL: ŠIM~b CDLI: SZIM~b UCS: 𒂔 PROTO-CUNEIFORM SIGN SHIM-B	1331
	PCSL: ŠIR~a CDLI: SZIR~a UCS: 𒂔 PROTO-CUNEIFORM SIGN SHIR-A	1332
	PCSL: ŠIR~a~v1 CDLI: SZIR~a UCS: 𒂔 PROTO-CUNEIFORM SIGN SHIR-A VARIANT 1 • Variant of  ŠIR~a	1333
	PCSL: ŠIR~b CDLI: SZIR~b UCS: 𒂔 PROTO-CUNEIFORM SIGN SHIR-B	1334
	PCSL: ŠIR~b~v1 CDLI: SZIR~b UCS: 𒂔 PROTO-CUNEIFORM SIGN SHIR-B VARIANT 1 • Variant of  ŠIR~b	1335
	PCSL: ŠIR~b~v2 CDLI: SZIR~b UCS: 𒂔 PROTO-CUNEIFORM SIGN SHIR-B VARIANT 2 • Variant of  ŠIR~b	1336
	PCSL: ŠITA~a1 CDLI: SZITA~a1 UCS: 𒂔 PROTO-CUNEIFORM SIGN SHITA-A1	1337
	PCSL:  ŠITA~a1xKAK~a  CDLI:  SZITA~a1xKAK~a  UCS: 𒂔 PROTO-CUNEIFORM SIGN SHITA-A1 TIMES KAK-A	1338
	PCSL:  ŠITA~a1xŠU  CDLI:  SZITA~a1xSZU  UCS: 𒂔 PROTO-CUNEIFORM SIGN SHITA-A1 TIMES SHU	1339

	PCSL:  ŠITA~a1xŠU <sub>2</sub> ~b  CDLI:  SZITA~a1xSZU2  UCS: ◻ PROTO-CUNEIFORM SIGN SHITA-A1 TIMES SHU2-B	1340
	PCSL:  ŠITA~a1xUDU~a  CDLI:  SZITA~a1xUDU~a  UCS: ◻ PROTO-CUNEIFORM SIGN SHITA-A1 TIMES UDU-A	1341
	PCSL:  ŠITA~a1x1(N06)  CDLI:  SZITA~a1x1(N06)  UCS: ◻ PROTO-CUNEIFORM SIGN SHITA-A1 TIMES ONE-N6	1342
	PCSL: ŠITA~a1@g CDLI: SZITA@g~b UCS: ◻ PROTO-CUNEIFORM SIGN SHITA-A1 GUNU	1343
	PCSL: ŠITA~a2 CDLI: SZITA~a2 UCS: ◻ PROTO-CUNEIFORM SIGN SHITA-A2	1344
	PCSL: ŠITA~a3 CDLI: SZITA~a3 UCS: ◻ PROTO-CUNEIFORM SIGN SHITA-A3	1345
	PCSL: ŠITA~b1 CDLI: SZITA~b1 UCS: ◻ PROTO-CUNEIFORM SIGN SHITA-B1	1346
	PCSL: ŠITA~b1@g CDLI: SZITA@g~a UCS: ◻ PROTO-CUNEIFORM SIGN SHITA-B1 GUNU	1347
	PCSL: ŠITA~b2 CDLI: SZITA~b2 UCS: ◻ PROTO-CUNEIFORM SIGN SHITA-B2	1348
	PCSL:  ŠITA~b2@gxHI@g~a  CDLI:  SZITA~b1xHI@g~a  UCS: ◻ PROTO-CUNEIFORM SIGN SHITA-B2 GUNU TIMES HI GUNU-A • Has a compound-only sign: ◻ ŠITA~b2@g	1349
	PCSL: ŠITA~b3 CDLI: SZITA~b3 UCS: ◻ PROTO-CUNEIFORM SIGN SHITA-B3	1350

	PCSL:  ŠITA~b3×NAM₂  CDLI:  SZITA~b3xNAM2  UCS: ◇ PROTO-CUNEIFORM SIGN SHITA-B3 TIMES NAM2	1351
	PCSL: ŠITA~b3@g CDLI: SZITA@g~a UCS: ◇ PROTO-CUNEIFORM SIGN SHITA-B3 GUNU • Variant of ◇ ŠITA~b1@g	1352
	PCSL:  ŠITA~b3@g×1(N04)  CDLI:  SZITA@g~ax1(N04)  UCS: ◇ PROTO-CUNEIFORM SIGN SHITA-B3 GUNU TIMES ONE-N4	1353
	PCSL:  ŠITA~b3@g×1(N06)  CDLI:  SZITA@g~ax1(N06)  UCS: ◇ PROTO-CUNEIFORM SIGN SHITA-B3 GUNU TIMES ONE-N6	1354
	PCSL: ŠITA~c CDLI: SZITA~c Unicode status: not proposed due to chronological scope	1355
	PCSL: ŠU CDLI: SZU UCS: ◇ PROTO-CUNEIFORM SIGN SHU	1356
	PCSL:  ŠU×1(N58)  CDLI:  SZU×1(N58)  UCS: ◇ PROTO-CUNEIFORM SIGN SHU TIMES ONE-N58	1357
	PCSL:  ŠU&ŠU  CDLI:  SZU&SZU  UCS: ◇ PROTO-CUNEIFORM SIGN SHU OVER SHU	1358
	PCSL: ŠU@g CDLI: SZU@g UCS: ◇ PROTO-CUNEIFORM SIGN SHU GUNU	1359
	PCSL: ŠU@s CDLI: SZU@s Unicode status: not proposed due to chronological scope	1360
	PCSL: ŠU₂~a CDLI: SZU2 UCS: ◇ PROTO-CUNEIFORM SIGN SHU2-A	1361



PCSL: |ŠU<sub>2</sub>~a.AN| 1362  
 CDLI: |SZU2.AN|  
 UCS: ◆ PROTO-CUNEIFORM SIGN SHU2-A BESIDE AN



PCSL: |ŠU<sub>2</sub>~a.EN~a~v1| 1363  
 CDLI: |SZU2.EN~a|  
 UCS: ◆ PROTO-CUNEIFORM SIGN SHU2-A BESIDE EN-A VARIANT 1



PCSL: |ŠU<sub>2</sub>~a.EN~a~v2| 1364  
 CDLI: |SZU2.EN~a|  
 UCS: ◆ PROTO-CUNEIFORM SIGN SHU2-A BESIDE EN-A VARIANT 2  
 • Variant of ◆ |ŠU<sub>2</sub>~a.EN~a~v1|



PCSL: |ŠU<sub>2</sub>~a.EN~b~v1| 1365  
 CDLI: |SZU2.EN~b|  
 UCS: ◆ PROTO-CUNEIFORM SIGN SHU2-A BESIDE EN-B VARIANT 1



PCSL: |ŠU<sub>2</sub>~a.(HI×1(N57))&(HI×1(N57))| 1366  
 CDLI: |SZU2.((HI+1(N57))+(HI+1(N57)))|  
 UCS: ◆ PROTO-CUNEIFORM SIGN SHU2-A BESIDE HI TIMES ONE-N57 OVER HI TIMES ONE-N57  
 • CDLI name normalized in PCSL: correct compound operator specified



PCSL: |ŠU<sub>2</sub>~a.URI<sub>3</sub>~a~v1| 1367  
 CDLI: |SZU2.URI3~a|  
 UCS: ◆ PROTO-CUNEIFORM SIGN SHU2-A BESIDE URI3-A VARIANT 1



PCSL: ŠU<sub>2</sub>~b 1368  
 CDLI: SZU2  
 UCS: ◆ PROTO-CUNEIFORM SIGN SHU2-B  
 • Variant of ◆ ŠU<sub>2</sub>~a



PCSL: |ŠU<sub>2</sub>~b.E<sub>2</sub>~a| 1369  
 CDLI: |SZU2.E2~a|  
 UCS: ◆ PROTO-CUNEIFORM SIGN SHU2-B BESIDE E2-A



PCSL: |ŠU<sub>2</sub>~b.E<sub>2</sub>~b| 1370  
 CDLI: |SZU2.E2~b|  
 UCS: ◆ PROTO-CUNEIFORM SIGN SHU2-B BESIDE E2-B

	PCSL:  ŠU₂~b.GIŠ  CDLI:  SZU2.GISZ  UCS: <= PROTO-CUNEIFORM SIGN SHU2-B BESIDE GISH	1371
	PCSL:  ŠU₂~b.1(N02)  CDLI:  SZU2.1(N02)  UCS: <= PROTO-CUNEIFORM SIGN SHU2-B BESIDE ONE-N2	1372
	PCSL:  ŠU₂~b.2(N57)  CDLI:  SZU2.2(N57)  Unicode status: not proposed due to chronological scope	1373
	PCSL: ŠU₁₂ CDLI: SZU12 UCS: <= PROTO-CUNEIFORM SIGN SHU12	1374
	PCSL: ŠUBUR CDLI: SZUBUR UCS: <= PROTO-CUNEIFORM SIGN SHUBUR	1375
	PCSL: ŠUM CDLI: SZUM UCS: <= PROTO-CUNEIFORM SIGN SHUM	1376
	PCSL: ŠUR₂~a CDLI: SZUR2~a UCS: <= PROTO-CUNEIFORM SIGN SHUR2-A	1377
	PCSL: ŠUR₂~b CDLI: SZUR2~b UCS: <= PROTO-CUNEIFORM SIGN SHUR2-B	1378
	PCSL: ŠURUPPAK~a CDLI: SZURUPPAK~a UCS: <= PROTO-CUNEIFORM SIGN SHURUPPAK-A	1379
	PCSL: ŠURUPPAK~a~v1 CDLI: SZURUPPAK~a UCS: <= PROTO-CUNEIFORM SIGN SHURUPPAK-A VARIANT 1 • Variant of <= ŠURUPPAK~a	1380

	PCSL: ŠURUPPAK~b CDLI: SZURUPPAK~b UCS: 𒂔 PROTO-CUNEIFORM SIGN SHURUPPAK-B	1381
	PCSL: ŠURUPPAK~b~v1 CDLI: SZURUPPAK~b UCS: 𒂔 PROTO-CUNEIFORM SIGN SHURUPPAK-B VARIANT 1 • Variant of 𒂔 ŠURUPPAK~b	1382
	PCSL: ŠURUPPAK~c CDLI: SZURUPPAK~c Unicode status: not proposed due to chronological scope	1383
	PCSL: TA~a CDLI: TA~a UCS: 𒋁 PROTO-CUNEIFORM SIGN TA-A	1384
	PCSL: TA~b CDLI: TA~b UCS: 𒋁 PROTO-CUNEIFORM SIGN TA-B	1385
	PCSL: TA~c CDLI: TA~c UCS: 𒋁 PROTO-CUNEIFORM SIGN TA-C	1386
	PCSL: TA~d CDLI: TA~d UCS: 𒋁 PROTO-CUNEIFORM SIGN TA-D	1387
	PCSL:  TA~dxMAŠ  CDLI:  TA~dxMASZ  UCS: 𒋁 PROTO-CUNEIFORM SIGN TA-D TIMES MASH	1388
	PCSL: TA~e CDLI: TA~e UCS: 𒋁 PROTO-CUNEIFORM SIGN TA-E	1389
	PCSL: TA~f CDLI: TA~f Unicode status: not proposed due to chronological scope	1390

	PCSL: TAG~a1 CDLI: TAG~a1 UCS:  PROTO-CUNEIFORM SIGN TAG-A1	1391
	PCSL: TAG~a1@t CDLI: TAG~a1@t UCS:  PROTO-CUNEIFORM SIGN TAG-A1 TENU	1392
	PCSL: TAG~a2 CDLI: TAG~a2 UCS:  PROTO-CUNEIFORM SIGN TAG-A2	1393
	PCSL: TAG~a3 CDLI: TAG~a3 UCS:  PROTO-CUNEIFORM SIGN TAG-A3	1394
	PCSL: TAG~a4 CDLI: TAG~a4 UCS:  PROTO-CUNEIFORM SIGN TAG-A4	1395
	PCSL: TAG~b CDLI: TAG~b UCS:  PROTO-CUNEIFORM SIGN TAG-B	1396
	PCSL: TAG~c CDLI: TAG~c UCS:  PROTO-CUNEIFORM SIGN TAG-C	1397
	PCSL: TAG~d CDLI: TAG~d UCS:  PROTO-CUNEIFORM SIGN TAG-D	1398
	PCSL: TAK <sub>4</sub> ~a CDLI: TAK4~a UCS:  PROTO-CUNEIFORM SIGN TAK4-A	1399
	PCSL: TAK <sub>4</sub> ~a@n CDLI: TAK4~a@n UCS:  PROTO-CUNEIFORM SIGN TAK4-A NUTILLU	1400
	PCSL: TAK <sub>4</sub> ~a~v1 CDLI: TAK4~a UCS:  PROTO-CUNEIFORM SIGN TAK4-A VARIANT 1 • Variant of  TAK4~a	1401

	PCSL: TAK <sub>4~c</sub> CDLI: TAK4~c UCS:  PROTO-CUNEIFORM SIGN TAK4-C	1402
	PCSL: TAR~a CDLI: TAR~a UCS:  PROTO-CUNEIFORM SIGN TAR-A	1403
	PCSL: TAR~d CDLI: TAR~d Unicode status: not proposed due to chronological scope	1404
	PCSL: TE CDLI: TE UCS:  PROTO-CUNEIFORM SIGN TE	1405
	PCSL: TI CDLI: TI UCS:  PROTO-CUNEIFORM SIGN TI	1406
	PCSL: TI@g CDLI: TI@g UCS:  PROTO-CUNEIFORM SIGN TI GUNU	1407
	PCSL: TI@r CDLI: TI@r UCS:  PROTO-CUNEIFORM SIGN TI REVERSED	1408
	PCSL: TI@t CDLI: TI@t UCS:  PROTO-CUNEIFORM SIGN TI TENU	1409
	PCSL: TI~v1 CDLI: TI UCS:  PROTO-CUNEIFORM SIGN TI VARIANT 1 • Variant of  TI	1410
	PCSL: TIDNUM CDLI: TIDNUM UCS:  PROTO-CUNEIFORM SIGN TIDNUM	1411
	PCSL: TILLA <sub>2</sub> CDLI: TILLA2 UCS:  PROTO-CUNEIFORM SIGN TILLA2	1412

	PCSL: TU~a CDLI: TU~a UCS:  PROTO-CUNEIFORM SIGN TU-A	1413
	PCSL: TU~b CDLI: TU~b UCS:  PROTO-CUNEIFORM SIGN TU-B	1414
	PCSL: TU~c CDLI: TU~c UCS:  PROTO-CUNEIFORM SIGN TU-C	1415
	PCSL: TUG <sub>2</sub> ~a CDLI: TUG2~a UCS:  PROTO-CUNEIFORM SIGN TUG2-A	1416
	PCSL:  TUG <sub>2</sub> ~a.(BAD&BAD)  CDLI:  TUG2~a.(BAD&BAD)  UCS:  PROTO-CUNEIFORM SIGN TUG2-A BESIDE BAD OVER BAD	1417
	PCSL: TUG <sub>2</sub> ~a@g CDLI: TUG2~a@g UCS:  PROTO-CUNEIFORM SIGN TUG2-A GUNU	1418
	PCSL: TUG <sub>2</sub> ~a@g~v1 CDLI: TUG2~a@g UCS:  PROTO-CUNEIFORM SIGN TUG2-A GUNU VARIANT 1 • Variant of  TUG <sub>2</sub> ~a@g	1419
	PCSL: TUG <sub>2</sub> ~b CDLI: TUG2~b UCS:  PROTO-CUNEIFORM SIGN TUG2-B	1420
	PCSL: TUG <sub>2</sub> ~c CDLI: TUG2~c UCS:  PROTO-CUNEIFORM SIGN TUG2-C	1421
	PCSL: TUG <sub>2</sub> ~d CDLI: TUG2~d UCS:  PROTO-CUNEIFORM SIGN TUG2-D	1422
	PCSL: TUM~a CDLI: TUM~a UCS:  PROTO-CUNEIFORM SIGN TUM-A	1423

	PCSL: TUM~a@g CDLI: TUM~a@g UCS: ☈ PROTO-CUNEIFORM SIGN TUM-A GUNU	1424
	PCSL: TUM~b CDLI: TUM~b UCS: ☉ PROTO-CUNEIFORM SIGN TUM-B	1425
	PCSL: TUM~c CDLI: TUM~c UCS: ☊ PROTO-CUNEIFORM SIGN TUM-C	1426
	PCSL: TUM~d CDLI: TUM~d UCS: ☋ PROTO-CUNEIFORM SIGN TUM-D	1427
	PCSL: TUN <sub>3</sub> ~a CDLI: TUN3~a UCS: ☌ PROTO-CUNEIFORM SIGN TUN3-A	1428
	PCSL: TUN <sub>3</sub> ~b CDLI: TUN3~b UCS: ☍ PROTO-CUNEIFORM SIGN TUN3-B	1429
	PCSL: TUN <sub>3</sub> ~c CDLI: TUN3~c UCS: ☎ PROTO-CUNEIFORM SIGN TUN3-C	1430
	PCSL: TUR CDLI: TUR UCS: ☏ PROTO-CUNEIFORM SIGN TUR	1431
	PCSL: TUR@g CDLI: TUR@g UCS: ☐ PROTO-CUNEIFORM SIGN TUR GUNU	1432
	PCSL: TUR~v1 CDLI: TUR UCS: ☘ PROTO-CUNEIFORM SIGN TUR VARIANT 1 • Variant of ☏ TUR	1433
	PCSL:  TUR~v1xX  CDLI:  TURxX  Unicode status: not proposed due to chronological scope • Has a fragmentary or missing portion	1434

	PCSL: U <sub>2</sub> ~b~v1 CDLI: U2~b UCS: 𠂔 PROTO-CUNEIFORM SIGN U2-B VARIANT 1 • Variant of  U <sub>2</sub> ~b	1444
	PCSL: U <sub>2</sub> ~b~v2 CDLI: U2~b UCS: 𠂔 PROTO-CUNEIFORM SIGN U2-B VARIANT 2 • Variant of  U <sub>2</sub> ~b	1443
	PCSL: U <sub>2</sub> ~a CDLI: U2~a UCS: 𠂔 PROTO-CUNEIFORM SIGN U2-A	1442
	PCSL: U <sub>2</sub> ~b CDLI: U2~b UCS: 𠂔 PROTO-CUNEIFORM SIGN U2-B	1443
	PCSL: U <sub>3</sub> ~a CDLI: U3~a UCS: 𠂔 PROTO-CUNEIFORM SIGN U3-A	1441
	PCSL: U <sub>3</sub> ~b CDLI: U3~b UCS: 𠂔 PROTO-CUNEIFORM SIGN U3-B	1440
	PCSL: U <sub>3</sub> ~c CDLI: U3~c UCS: 𠂔 PROTO-CUNEIFORM SIGN U3-C	1441
	PCSL: U <sub>3</sub> ~a~v2 CDLI: U3~a UCS: 𠂔 PROTO-CUNEIFORM SIGN U3-A VARIANT 2 • Variant of  U <sub>3</sub> ~a	1438
	PCSL: U <sub>3</sub> ~b~v2 CDLI: U3~b UCS: 𠂔 PROTO-CUNEIFORM SIGN U3-B VARIANT 2 • Variant of  U <sub>3</sub> ~b	1439
	PCSL: U <sub>3</sub> ~c~v2 CDLI: U3~c UCS: 𠂔 PROTO-CUNEIFORM SIGN U3-C VARIANT 2 • Variant of  U <sub>3</sub> ~c	1437
	PCSL: TUR~v3 CDLI: TUR UCS: 𠂔 PROTO-CUNEIFORM SIGN TUR VARIANT 3 • Variant of  TUR	1436
	PCSL: TUR~v2 CDLI: TUR UCS: 𠂔 PROTO-CUNEIFORM SIGN TUR VARIANT 2 • Variant of  TUR	1435

	PCSL: U <sub>2</sub> ~b~v2 CDLI: U2~b UCS: 𒂔 PROTO-CUNEIFORM SIGN U2-B VARIANT 2 • Variant of 𒂔 U <sub>2</sub> ~b	1445
	PCSL: U <sub>2</sub> ~c CDLI: U2~c UCS: 𒂕 PROTO-CUNEIFORM SIGN U2-C	1446
	PCSL: U <sub>4</sub> CDLI: U4 UCS: 𒂗 PROTO-CUNEIFORM SIGN U4	1447
	PCSL:  U <sub>4</sub> .ŠU <sub>2</sub> ~b  CDLI:  U4.SZU2  UCS: 𒂗 𒂔 PROTO-CUNEIFORM SIGN U4 BESIDE SHU2-B	1448
	PCSL:  U <sub>4</sub> .1(N08)  CDLI:  U4.1(N08)  UCS: 𒂗 𒈠 PROTO-CUNEIFORM SIGN U4 BESIDE ONE-N8	1449
	PCSL:  U <sub>4</sub> .2(N08)  CDLI:  U4.2(N08)  UCS: 𒂗 𒈦 PROTO-CUNEIFORM SIGN U4 BESIDE TWO-N8	1450
	PCSL:  U <sub>4</sub> .3(N08)  CDLI:  U4.3(N08)  UCS: 𒂗 𒈪 PROTO-CUNEIFORM SIGN U4 BESIDE THREE-N8	1451
	PCSL:  U <sub>4</sub> .4(N08)~v1  CDLI:  U4.4(N08)  UCS: 𒂗 𒈬 PROTO-CUNEIFORM SIGN U4 BESIDE FOUR-N8 VARIANT 1 • Has a compound-only sign: 𒈬 4(N08)~v1	1452
	PCSL:  U <sub>4</sub> .5(N08)  CDLI:  U4.5(N08)  UCS: 𒂗 𒈭 PROTO-CUNEIFORM SIGN U4 BESIDE FIVE-N8	1453
	PCSL:  U <sub>4</sub> .6(N08)  CDLI:  U4.6(N08)  UCS: 𒂗 𒈮 PROTO-CUNEIFORM SIGN U4 BESIDE SIX-N8	1454

	PCSL:  U4.7(N08)  CDLI:  U4.7(N08)  UCS: 𒁷 PROTO-CUNEIFORM SIGN U4 BESIDE SEVEN-N8	1455
	PCSL:  U4.8(N08)  CDLI:  U4.8(N08)  UCS: 𒁸 PROTO-CUNEIFORM SIGN U4 BESIDE EIGHT-N8	1456
	PCSL:  U4.1(N14)  CDLI:  U4.1(N14)  UCS: 𒁹 PROTO-CUNEIFORM SIGN U4 BESIDE ONE-N14	1457
	PCSL:  U4.(1(N14).3(N08))  CDLI:  U4.(1(N14).3(N08))  UCS: 𒁻 PROTO-CUNEIFORM SIGN U4 BESIDE ONE-N14 PLUS THREE-N8	1458
	PCSL:  U4.(1(N14).4(N08))  CDLI:  U4.(1(N14).4(N08))  UCS: 𒁻 PROTO-CUNEIFORM SIGN U4 BESIDE ONE-N14 PLUS FOUR-N8	1459
	PCSL:  U4.(1(N14).5(N08))  CDLI:  U4.(1(N14).5(N08))  UCS: 𒁻 PROTO-CUNEIFORM SIGN U4 BESIDE ONE-N14 PLUS FIVE-N8	1460
	PCSL:  U4.(1(N14).8(N08))  CDLI:  U4.(1(N14).8(N08))  UCS: 𒁻 PROTO-CUNEIFORM SIGN U4 BESIDE ONE-N14 PLUS EIGHT-N8	1461
	PCSL:  U4.2(N14)  CDLI:  U4.2(N14)  UCS: 𒁹 PROTO-CUNEIFORM SIGN U4 BESIDE TWO-N14	1462
	PCSL:  U4xX  CDLI:  U4xX  UCS: 𒁵 PROTO-CUNEIFORM SIGN U4 TIMES X • Has a fragmentary or missing portion	1463
	PCSL:  U4x(X+2(N01))  CDLI:  U4x(X+2(N01))  UCS: 𒁵 PROTO-CUNEIFORM SIGN U4 TIMES X JOINING TWO-N1 • Has a fragmentary or missing portion	1464



PCSL: |U<sub>4</sub>×1(N01)|  
 CDLI: |U4x1(N01)|  
 UCS: 𒂔 PROTO-CUNEIFORM SIGN U4 TIMES ONE-N1

1465



PCSL: |U<sub>4</sub>×1(N01).5(N08)|  
 CDLI: |U4x1(N01).5(N08)|  
 UCS: 𒂔 PROT CUNIFORM SIGN U4 TIMES ONE-N1 BESIDE FIVE-N8

1466



PCSL: |U<sub>4</sub>×2(N01)|  
 CDLI: |U4x2(N01)|  
 UCS: 𒂔 PROTO-CUNEIFORM SIGN U4 TIMES TWO-N1

1467



PCSL: |U<sub>4</sub>×2(N01).X|  
 CDLI: |U4x2(N01).X|  
 UCS: 𒂔 PROTO-CUNEIFORM SIGN U4 TIMES TWO-N1 BESIDE X  
 • Has a fragmentary or missing portion

1468



PCSL: |U<sub>4</sub>×2(N01).2(N14)|  
 CDLI: |U4x2(N01).2(N14)|  
 UCS: 𒂔 PROTO-CUNEIFORM SIGN U4 TIMES TWO-N1 BESIDE TWO-N14

1469



PCSL: |U<sub>4</sub>×2(N01).(2(N14).1(N08))|  
 CDLI: |U4x2(N01).(2(N14).1(N08))|  
 UCS: 𒂔 PROTO-CUNEIFORM SIGN U4 TIMES TWO-N1 BESIDE TWO-N14 PLUS ONE-N8

1470



PCSL: |U<sub>4</sub>×3(N01)|  
 CDLI: |U4x3(N01)|  
 UCS: 𒂔 PROTO-CUNEIFORM SIGN U4 TIMES THREE-N1

1471



PCSL: |U<sub>4</sub>×3(N01).3(N08)~v1|  
 CDLI: |U4x3(N01).3(N08)|  
 UCS: 𒂔 PROTO-CUNEIFORM SIGN U4 TIMES THREE-N1 BESIDE THREE-N8 VARIANT 1  
 • Has a compound-only sign: 𒂔 3(N08)~v1

1472



PCSL: |U<sub>4</sub>×4(N01)|  
 CDLI: |U4x4(N01)|  
 UCS: 𒂔 PROTO-CUNEIFORM SIGN U4 TIMES FOUR-N1

1473



PCSL: |U<sub>4</sub>×4(N01).2(N14)|  
 CDLI: |U4x4(N01).2(N14)|  
 UCS: 𒂔 PROTO-CUNEIFORM SIGN U4 TIMES FOUR-N1 BESIDE TWO-N14

1474

	PCSL:  U <sub>4</sub> ×5(N01)  CDLI:  U4x5(N01)  UCS: ◊ PROTO-CUNEIFORM SIGN U4 TIMES FIVE-N1	1475
	PCSL:  U <sub>4</sub> ×5(N01).1(N14)  CDLI:  U4x5(N01).1(N14)  UCS: ◊• PROTO-CUNEIFORM SIGN U4 TIMES FIVE-N1 BESIDE ONE-N14	1476
	PCSL:  U <sub>4</sub> ×6(N01)  CDLI:  U4x6(N01)  UCS: ◊ PROTO-CUNEIFORM SIGN U4 TIMES SIX-N1	1477
	PCSL:  U <sub>4</sub> ×8(N01)  CDLI:  U4x8(N01)  UCS: ◊ PROTO-CUNEIFORM SIGN U4 TIMES EIGHT-N1	1478
	PCSL:  U <sub>4</sub> ×8(N01).X  CDLI:  U4x8(N01).X  UCS: ◊ PROTO-CUNEIFORM SIGN U4 TIMES EIGHT-N1 BESIDE X • Has a fragmentary or missing portion	1479
	PCSL:  U <sub>4</sub> ×N(N01)  CDLI:  U4x(X(N01))  UCS: ◊ PROTO-CUNEIFORM SIGN U4 TIMES N-N1 • Has a compound-only sign: ॥ N(N01)	1480
	PCSL:  U <sub>4</sub> ×1(N01@f)  CDLI:  U4x1(N01)F  Unicode status: not proposed due to chronological scope • CDLI name normalized in PCSL: modifier notation revised	1481
	PCSL:  U <sub>4</sub> ×1(N14)  CDLI:  U4x1(N14)  UCS: ॥ PROTO-CUNEIFORM SIGN U4 TIMES ONE-N14	1482
	PCSL:  U <sub>4</sub> ×(1(N14).2(N01))  CDLI:  U4x(1(N14).2(N01))  UCS: ◊ PROTO-CUNEIFORM SIGN U4 TIMES ONE-N14 PLUS TWO-N1	1483
	PCSL:  U <sub>4</sub> ×(1(N14).4(N01))  CDLI:  U4x(1(N14).4(N01))  UCS: ◊ PROTO-CUNEIFORM SIGN U4 TIMES ONE-N14 PLUS FOUR-N1	1484

	PCSL:  U <sub>4</sub> ×(1(N14).8(N01))  CDLI:  U4x(1(N14).8(N01))  UCS: ◇ PROTO-CUNEIFORM SIGN U4 TIMES ONE-N14 PLUS EIGHT-N1	1485
	PCSL:  U <sub>4</sub> ×2(N14)  CDLI:  U4x2(N14)  UCS: ◇ PROTO-CUNEIFORM SIGN U4 TIMES TWO-N14	1486
	PCSL:  U <sub>4</sub> ×(2(N14).4(N01))  CDLI:  U4x(2(N14).4(N01))  UCS: ◇ PROTO-CUNEIFORM SIGN U4 TIMES TWO-N14 PLUS FOUR-N1	1487
	PCSL:  U <sub>4</sub> ×(3(N14).2(N01))  CDLI:  U4x(3(N14).2(N01))  UCS: ◇ PROTO-CUNEIFORM SIGN U4 TIMES THREE-N14 PLUS TWO-N1	1488
	PCSL:  U <sub>4</sub> ×(3(N14).7(N01))  CDLI:  U4x(3(N14).7(N01))  UCS: ◇ PROTO-CUNEIFORM SIGN U4 TIMES THREE-N14 PLUS SEVEN-N1	1489
	PCSL:  U <sub>4</sub> ×1(N57)  CDLI:  U4x1(N57)  UCS: → PROTO-CUNEIFORM SIGN U4 TIMES ONE-N57	1490
	PCSL:  U <sub>4</sub> ×2(N57)  CDLI:  U4x2(N57)  UCS: → PROTO-CUNEIFORM SIGN U4 TIMES TWO-N57	1491
	PCSL:  U <sub>4</sub> ×3(N57)  CDLI:  U4x3(N57)  UCS: → PROTO-CUNEIFORM SIGN U4 TIMES THREE-N57	1492
	PCSL:  U <sub>4</sub> ×4(N57)  CDLI:  U4x4(N57)  UCS: → PROTO-CUNEIFORM SIGN U4 TIMES FOUR-N57	1493
	PCSL:  U <sub>4</sub> ×5(N57)  CDLI:  U4x5(N57)  UCS: → PROTO-CUNEIFORM SIGN U4 TIMES FIVE-N57	1494
	PCSL:  U <sub>4</sub> ×6(N57)  CDLI:  U4x6(N57)  UCS: → PROTO-CUNEIFORM SIGN U4 TIMES SIX-N57	1495

	PCSL:  U <sub>4</sub> ×7(N57)  CDLI:  U4x7(N57)  UCS: ☧ PROTO-CUNEIFORM SIGN U4 TIMES SEVEN-N57	1496
	PCSL:  U <sub>4</sub> ×8(N57)  CDLI:  U4x8(N57)  UCS: ☧ PROTO-CUNEIFORM SIGN U4 TIMES EIGHT-N57	1497
	PCSL:  U <sub>4</sub> ×10(N57)  CDLI:  U4x10(N57)  UCS: ☧ PROTO-CUNEIFORM SIGN U4 TIMES TEN-N57	1498
	PCSL:  U <sub>4</sub> ×1(N58@t)  CDLI:  U4x1(N58)@t  UCS: ☧ PROTO-CUNEIFORM SIGN U4 TIMES ONE-N58 TENU • CDLI name normalized in PCSL: modifier notation revised	1499
	PCSL: U <sub>4</sub> @t CDLI: U4@t UCS: ☧ PROTO-CUNEIFORM SIGN U4 TENU	1500
	PCSL: U <sub>8</sub> CDLI: U8 UCS: ☩ PROTO-CUNEIFORM SIGN U8	1501
	PCSL:  U <sub>8</sub> ×TAR~b  CDLI:  (U8xTAR)~b  UCS: ☦ PROTO-CUNEIFORM SIGN U8 TIMES TAR-B • Has a compound-only sign: + TAR~b	1502
	PCSL: U <sub>8</sub> ~v1 CDLI: U8 UCS: ☦ PROTO-CUNEIFORM SIGN U8 VARIANT 1 • Variant of ☩ U <sub>8</sub>	1503
	PCSL: U <sub>8</sub> ~v2 CDLI: U8 UCS: ☦ PROTO-CUNEIFORM SIGN U8 VARIANT 2 • Variant of ☩ U <sub>8</sub>	1504
	PCSL: U <sub>8</sub> ~v3 CDLI: U8 UCS: ☦ PROTO-CUNEIFORM SIGN U8 VARIANT 3 • Variant of ☩ U <sub>8</sub>	1505

	PCSL: UB CDLI: UB UCS: ✳ PROTO-CUNEIFORM SIGN UB	1506
	PCSL: UBI~a CDLI: UBI~a UCS: ✽ PROTO-CUNEIFORM SIGN UBI-A	1507
	PCSL: UBI~c CDLI: UBI~c UCS: ✽ PROTO-CUNEIFORM SIGN UBI-C	1508
	PCSL: UBI~c~v1 CDLI: UBI~c UCS: ✽ PROTO-CUNEIFORM SIGN UBI-C VARIANT 1 • Variant of ✽ UBI~c	1509
	PCSL: UD <sub>5</sub> ~a CDLI: UD5~a UCS: ✽ PROTO-CUNEIFORM SIGN UD5-A	1510
	PCSL: UD <sub>5</sub> ~a@g CDLI: UD5~a@g UCS: ✽ PROTO-CUNEIFORM SIGN UD5-A GUNU	1511
	PCSL: UD <sub>5</sub> ~a~v1 CDLI: UD5~a UCS: ✽ PROTO-CUNEIFORM SIGN UD5-A VARIANT 1 • Variant of ✽ UD <sub>5</sub> ~a	1512
	PCSL: UD <sub>5</sub> ~a~v2 CDLI: UD5~a UCS: ✽ PROTO-CUNEIFORM SIGN UD5-A VARIANT 2 • Variant of ✽ UD <sub>5</sub> ~a	1513
	PCSL: UD <sub>5</sub> ~b CDLI: UD5~b UCS: ✽ PROTO-CUNEIFORM SIGN UD5-B	1514
	PCSL: UD <sub>5</sub> ~c CDLI: UD5~c UCS: ✽ PROTO-CUNEIFORM SIGN UD5-C	1515
	PCSL: UDU~a CDLI: UDU~a UCS: ✽ PROTO-CUNEIFORM SIGN UDU-A	1516

	PCSL:  UDU~axTAR~a  CDLI:  (UDU~axTAR)~a  UCS: 𒂗  PROTÓ-CUNEIFORM SIGN UDU-A TIMES TAR-A	1517
	PCSL:  UDU~axTAR~b  CDLI:  (UDU~axTAR)~b  UCS: 𒂘  PROTÓ-CUNEIFORM SIGN UDU-A TIMES TAR-B • Has a compound-only sign: + TAR~b	1518
	PCSL: UDU~b CDLI: UDU~b UCS: 𒂔  PROTÓ-CUNEIFORM SIGN UDU-B	1519
	PCSL: UDU~c CDLI: UDU~c UCS: 𒂕  PROTÓ-CUNEIFORM SIGN UDU-C	1520
	PCSL: UDUNITA~a CDLI: UDUNITA~a UCS: 𒀭  PROTÓ-CUNEIFORM SIGN UDUNITA-A	1521
	PCSL: UDUNITA~b CDLI: UDUNITA~b UCS: 𒀭  PROTÓ-CUNEIFORM SIGN UDUNITA-B	1522
	PCSL: UDUNITA~c CDLI: UDUNITA~c UCS: 𒀭  PROTÓ-CUNEIFORM SIGN UDUNITA-C	1523
	PCSL: UH CDLI: UH UCS: 𒌢  PROTÓ-CUNEIFORM SIGN UH	1524
	PCSL: UH <sub>3</sub> ~a CDLI: UH3~a UCS: 𒌢  PROTÓ-CUNEIFORM SIGN UH3-A	1525
	PCSL: UH <sub>3</sub> ~a@t CDLI: UH3~a@t UCS: 𒌢  PROTÓ-CUNEIFORM SIGN UH3-A TENU	1526
	PCSL: UH <sub>3</sub> ~b CDLI: UH3~b UCS: 𒌢  PROTÓ-CUNEIFORM SIGN UH3-B	1527

	PCSL: UKKIN~a CDLI: UKKIN~a UCS: 𒂔 PROTO-CUNEIFORM SIGN UKKIN-A	1528
	PCSL: UKKIN~a~v1 CDLI: UKKIN~a UCS: 𒂔 PROTO-CUNEIFORM SIGN UKKIN-A VARIANT 1 • Variant of 𒂔 UKKIN~a	1529
	PCSL: UKKIN~b CDLI: UKKIN~b UCS: 𒂔 PROTO-CUNEIFORM SIGN UKKIN-B	1530
	PCSL:  UKKIN~bxDIN  CDLI:  UKKIN~bxDIN  UCS: 𒂔 PROTO-CUNEIFORM SIGN UKKIN-B TIMES DIN	1531
	PCSL:  UKKIN~bx(DIN.1(N01))  CDLI:  UKKIN~bx(DIN.1(N01))  UCS: 𒂔 PROTO-CUNEIFORM SIGN UKKIN-B TIMES DIN PLUS ONE-N1 • Group inner operator . 'beside' → 'plus' in Unicode name	1532
	PCSL:  UKKIN~bxDUG~a  CDLI:  UKKIN~bxDUG~a  Unicode status: not proposed due to chronological scope	1533
	PCSL:  UKKIN~bxHI@g~a  CDLI:  UKKIN~bxHI@g~a  UCS: 𒂔 PROTO-CUNEIFORM SIGN UKKIN-B TIMES HI GUNU-A	1534
	PCSL:  UKKIN~bxNI~a  CDLI:  UKKIN~bxNI~a  UCS: 𒂔 PROTO-CUNEIFORM SIGN UKKIN-B TIMES NI-A	1535
	PCSL:  UKKIN~bxX  CDLI:  UKKIN~bxX  UCS: 𒂔 PROTO-CUNEIFORM SIGN UKKIN-B TIMES X • Has a fragmentary or missing portion	1536
	PCSL:  UKKIN~bx2(N01)  CDLI:  UKKIN~bx2(N01)  UCS: 𒂔 PROTO-CUNEIFORM SIGN UKKIN-B TIMES TWO-N1	1537
	PCSL:  UKKIN~bx3(N01)  CDLI:  UKKIN~bx3(N01)  UCS: 𒂔 PROTO-CUNEIFORM SIGN UKKIN-B TIMES THREE-N1	1538

	PCSL:  UKKIN~b×5(N01)  CDLI:  UKKIN~b×5(N01)  UCS: 𒌨  PROTOKUNIFORM SIGN UKKIN-B TIMES FIVE-N1	1539
	PCSL: UKKIN~b~v1 CDLI: UKKIN~b UCS: 𒌨  PROTOKUNIFORM SIGN UKKIN-B VARIANT 1 • Variant of 𒌨 UKKIN~b	1540
	PCSL: UKKIN~c CDLI: UKKIN~c UCS: 𒌨  PROTOKUNIFORM SIGN UKKIN-C	1541
	PCSL: UMBIN~a CDLI: UMBIN~a UCS: 𒌢  PROTOKUNIFORM SIGN UMBIN-A	1542
	PCSL: UMBIN~b1 CDLI: UMBIN~b1 UCS: 𒌢  PROTOKUNIFORM SIGN UMBIN-B1	1543
	PCSL: UMBIN~b2 CDLI: UMBIN~b2 UCS: 𒌢  PROTOKUNIFORM SIGN UMBIN-B2	1544
	PCSL: UMBIN~c CDLI: UMBIN~c UCS: 𒌢  PROTOKUNIFORM SIGN UMBIN-C	1545
	PCSL: UMUN <sub>2</sub> CDLI: UMUN2 UCS: 𒌢  PROTOKUNIFORM SIGN UMUN2	1546
	PCSL: UMUN <sub>2</sub> ~v1 CDLI: UMUN2 UCS: 𒌢  PROTOKUNIFORM SIGN UMUN2 VARIANT 1 • Variant of 𒌢 UMUN <sub>2</sub>	1547
	PCSL: UNUG~a CDLI: UNUG~a UCS: 𒌢  PROTOKUNIFORM SIGN UNUG-A	1548

	PCSL: UNUG~a@s CDLI: UNUG~a@s UCS:  PROTO-CUNEIFORM SIGN UNUG-A SHESHIG	1549
	PCSL: UNUG~a~v1 CDLI: UNUG~a UCS:  PROTO-CUNEIFORM SIGN UNUG-A VARIANT 1 • Variant of  UNUG~a	1550
	PCSL:  UNUG~a~v1xA@t  CDLI:  UNUG~axA@t  UCS:  PROTO-CUNEIFORM SIGN UNUG-A VARIANT 1 TIMES A TENU	1551
	PCSL: UNUG~b CDLI: UNUG~b UCS:  PROTO-CUNEIFORM SIGN UNUG-B	1552
	PCSL: UNUG~c CDLI: UNUG~c UCS:  PROTO-CUNEIFORM SIGN UNUG-C	1553
	PCSL: UR~a CDLI: UR~a UCS:  PROTO-CUNEIFORM SIGN UR-A	1554
	PCSL:  UR~a×KAR2~b  CDLI:  UR~axKAR2  UCS:  PROTO-CUNEIFORM SIGN UR-A TIMES KAR2-B	1555
	PCSL: UR~a@g CDLI: UR~a@g UCS:  PROTO-CUNEIFORM SIGN UR-A GUNU	1556
	PCSL: UR~b CDLI: UR~b UCS:  PROTO-CUNEIFORM SIGN UR-B	1557
	PCSL: UR~c CDLI: UR~c UCS:  PROTO-CUNEIFORM SIGN UR-C	1558
	PCSL: UR <sub>2</sub> CDLI: UR2 UCS:  PROTO-CUNEIFORM SIGN UR2	1559

	PCSL:  UR <sub>2</sub> ×TAR~c  CDLI:  UR2xTAR  UCS:  PROTO-CUNEIFORM SIGN UR2 TIMES TAR-C • Has a compound-only sign: > TAR~c	1560
	PCSL:  UR <sub>2</sub> ×1(N57)  CDLI:  UR2x1(N57)  UCS:  PROTO-CUNEIFORM SIGN UR2 TIMES ONE-N57	1561
	PCSL: UR <sub>3</sub> ~a1 CDLI: UR3~a1 UCS:  PROTO-CUNEIFORM SIGN UR3-A1	1562
	PCSL: UR <sub>3</sub> ~a1~v1 CDLI: UR3~a1 UCS:  PROTO-CUNEIFORM SIGN UR3-A1 VARIANT 1 • Variant of  UR <sub>3</sub> ~a1	1563
	PCSL: UR <sub>3</sub> ~a2 CDLI: UR3~a2 UCS:  PROTO-CUNEIFORM SIGN UR3-A2	1564
	PCSL: UR <sub>3</sub> ~a3 CDLI: UR3~a3 UCS:  PROTO-CUNEIFORM SIGN UR3-A3	1565
	PCSL: UR <sub>3</sub> ~b1 CDLI: UR3~b1 UCS:  PROTO-CUNEIFORM SIGN UR3-B1	1566
	PCSL:  UR <sub>3</sub> ~b1×MAŠ  CDLI:  UR3~b1xMASZ  UCS:  PROTO-CUNEIFORM SIGN UR3-B1 TIMES MASH	1567
	PCSL: UR <sub>3</sub> ~b2 CDLI: UR3~b2 UCS:  PROTO-CUNEIFORM SIGN UR3-B2	1568
	PCSL: UR <sub>4</sub> ~a CDLI: UR4~a UCS:  PROTO-CUNEIFORM SIGN UR4-A	1569
	PCSL: UR <sub>4</sub> ~b CDLI: UR4~b UCS:  PROTO-CUNEIFORM SIGN UR4-B	1570

	PCSL: UR <sub>4~c</sub> CDLI: UR4~c UCS: 𒊩 PROTO-CUNEIFORM SIGN UR4-C	1571
	PCSL: UR <sub>5~a</sub> CDLI: UR5~a UCS: 𒊪 PROTO-CUNEIFORM SIGN UR5-A	1572
	PCSL: UR <sub>5~b</sub> CDLI: UR5~b UCS: 𒊪 PROTO-CUNEIFORM SIGN UR5-B	1573
	PCSL: URI CDLI: URI UCS: 𒊩 PROTO-CUNEIFORM SIGN URI	1574
	PCSL: URI <sub>2</sub> CDLI: URI2 Unicode status: not proposed due to chronological scope	1575
	PCSL: URI <sub>3~a</sub> CDLI: URI3~a UCS: 𒊩 PROTO-CUNEIFORM SIGN URI3-A	1576
	PCSL:  URI <sub>3~a</sub> +IB~a  CDLI:  URI3~a+IB~a  Unicode status: not proposed due to chronological scope	1577
	PCSL: URI <sub>3~a~v1</sub> CDLI: URI3~a UCS: 𒊩 PROTO-CUNEIFORM SIGN URI3-A VARIANT 1 • Variant of 𒊩 URI <sub>3~a</sub>	1578
	PCSL: URI <sub>3~b</sub> CDLI: URI3~b UCS: 𒊩 PROTO-CUNEIFORM SIGN URI3-B	1579
	PCSL: URI <sub>5</sub> CDLI: URI5 UCS: 𒊩 PROTO-CUNEIFORM SIGN URI5	1580
	PCSL: URU~a1 CDLI: URU~a1 UCS: 𒊩 PROTO-CUNEIFORM SIGN URU-A1	1581

	PCSL:  URU~a1xA  CDLI:  URU~a1xA  Unicode status: not proposed due to chronological scope	1582
	PCSL:  URU~a1xAMAR~v2  CDLI:  URU~a1xAMAR  UCS:  PROTO-CUNEIFORM SIGN URU-A1 TIMES AMAR VARIANT 2	1583
	PCSL:  URU~a1xGU <sub>4</sub>   CDLI:  URU~a1xGU4  UCS:  PROTO-CUNEIFORM SIGN URU-A1 TIMES GU4	1584
	PCSL:  URU~a1xHI@g~a  CDLI:  URU~a1xHI@g~a  UCS:  PROTO-CUNEIFORM SIGN URU-A1 TIMES HI GUNU-A	1585
	PCSL:  URU~a1xNIMGIR  CDLI:  URU~a1xNIMGIR  UCS:  PROTO-CUNEIFORM SIGN URU-A1 TIMES NIMGIR	1586
	PCSL:  URU~a1xU <sub>4</sub>   CDLI:  URU~a1xU4  UCS:  PROTO-CUNEIFORM SIGN URU-A1 TIMES U4	1587
	PCSL:  URU~a1xx  CDLI:  URU~a1xx  UCS:  PROTO-CUNEIFORM SIGN URU-A1 TIMES X • Has a fragmentary or missing portion	1588
	PCSL:  URU~a1x1(N57)  CDLI:  URU~a1x1(N57)  UCS:  PROTO-CUNEIFORM SIGN URU-A1 TIMES ONE-N57	1589
	PCSL:  URU~a1x2(N57)  CDLI:  URU~a1x2(N57)  UCS:  PROTO-CUNEIFORM SIGN URU-A1 TIMES TWO-N57	1590
	PCSL: URU~a1@n CDLI: URU~a1@n UCS:  PROTO-CUNEIFORM SIGN URU-A1 NUTILLU	1591
	PCSL: URU~a2 CDLI: URU~a2 UCS:  PROTO-CUNEIFORM SIGN URU-A2	1592

	PCSL:  URU~a2x1(N58)  CDLI:  URU~a2x1(N58)  UCS:	1593
	PCSL:  URU~a3xKALAM~a  CDLI:  URU~a3xKALAM~a  UCS: • Has a compound-only sign:	1594
	PCSL: URU~b1 CDLI: URU~b1 UCS:	1595
	PCSL: URU~b2 CDLI: URU~b2 UCS:	1596
	PCSL: URU~c CDLI: URU~c UCS:	1597
	PCSL: URUDU~a CDLI: URUDU~a UCS:	1598
	PCSL: URUDU~a~v1 CDLI: URUDU~a UCS: • Variant of	1599
	PCSL: URUDU~a~v2 CDLI: URUDU~a UCS: • Variant of	1600
	PCSL: URUDU~c CDLI: URUDU~c UCS:	1601
	PCSL: URUDU~d CDLI: URUDU~d UCS:	1602

	PCSL: URUDU@g~a CDLI: URUDU@g~a UCS: 𒂔 PROTO-CUNEIFORM SIGN URUDU GUNU-A	1603
	PCSL: URUDU@g~b CDLI: URUDU@g~b UCS: 𒂕 PROTO-CUNEIFORM SIGN URUDU GUNU-B	1604
	PCSL: URUDU@g~c CDLI: URUDU@g~c UCS: 𒂖 PROTO-CUNEIFORM SIGN URUDU GUNU-C	1605
	PCSL: URUDU@g~d CDLI: URUDU@g~d UCS: 𒂗 PROTO-CUNEIFORM SIGN URUDU GUNU-D	1606
	PCSL: UŠ~a CDLI: USZ~a UCS: 𒂈 PROTO-CUNEIFORM SIGN USH-A	1607
	PCSL:  UŠ~a&UŠ~a  CDLI:  USZ~a&USZ~a  UCS: 𒂈  PROTOSIGN USH-A OVER USH-A	1608
	PCSL: UŠ~b CDLI: USZ~b UCS: 𒂉  PROTOSIGN USH-B	1609
	PCSL:  UŠ~b×TAR~c  CDLI:  USZ~b×TAR~c  UCS: 𒂉  PROTOSIGN USH-B TIMES TAR-C • Has a compound-only sign: 𒋼 TAR~c	1610
	PCSL:  UŠ~b×TAR~d  CDLI:  USZ~b×TAR~d  Unicode status: not proposed due to chronological scope	1611
	PCSL:  UŠ~b&UŠ~b  CDLI:  USZ~b&USZ~b  UCS: 𒂉  PROTOSIGN USH-B OVER USH-B	1612
	PCSL: UŠ~b~v1 CDLI: USZ~b UCS: 𒂉  PROTOSIGN USH-B VARIANT 1 • Variant of 𒂉 UŠ~b	1613

	PCSL:  UŠ~b~v2xTAR~c  CDLI:  USZ~bxTAR~c  UCS: 楔 PROTO-CUNEIFORM SIGN USH-B VARIANT 2 TIMES TAR-C • Variant of   UŠ~b~TAR~c  • Has 2 compound-only signs: > TAR~c, 楔 UŠ~b~v2	1614
	PCSL: UŠUMGAL CDLI: USZUMGAL UCS: 𠂇 PROTO-CUNEIFORM SIGN USHUMGAL	1615
	PCSL: UŠUR <sub>3</sub> ~a CDLI: USZUR3~a Unicode status: not proposed due to chronological scope	1616
	PCSL: UŠUR <sub>3</sub> ~b1 CDLI: USZUR3~b1 UCS: 𠂇 PROTO-CUNEIFORM SIGN USHUR3-B1	1617
	PCSL: UŠUR <sub>3</sub> ~b2 CDLI: USZUR3~b2 UCS: 𠂇 PROTO-CUNEIFORM SIGN USHUR3-B2	1618
	PCSL: UTUA~a CDLI: UTUA~a UCS: 𠂇 PROTO-CUNEIFORM SIGN UTUA-A	1619
	PCSL: UTUA~a@t CDLI: UTUA~a@t UCS: 𠂇 PROTO-CUNEIFORM SIGN UTUA-A TENU	1620
	PCSL: UTUA~b CDLI: UTUA~b UCS: 𠂇 PROTO-CUNEIFORM SIGN UTUA-B	1621
	PCSL: UTUA~b~v1 CDLI: UTUA~b UCS: 𠂇 PROTO-CUNEIFORM SIGN UTUA-B VARIANT 1 • Variant of  𠂇 UTUA~b	1622
	PCSL: UTUL~a CDLI: UTUL~a UCS: 𠂇 PROTO-CUNEIFORM SIGN UTUL-A	1623

	PCSL: UTUL~b CDLI: UTUL~b UCS:  PROTO-CUNEIFORM SIGN UTUL-B	1624
	PCSL: UTUL~c CDLI: UTUL~c UCS:  PROTO-CUNEIFORM SIGN UTUL-C	1625
	PCSL: UTUL~d CDLI: UTUL~d UCS:  PROTO-CUNEIFORM SIGN UTUL-D	1626
	PCSL: UZ~a CDLI: Not included in CDLI-gh UCS:  PROTO-CUNEIFORM SIGN UZ-A • Added to repertoire from LLATU:311_09, with refs (Uruk)	1627
	PCSL: UZU CDLI: UZU UCS:  PROTO-CUNEIFORM SIGN UZU	1628
	PCSL: ZA~v CDLI: ZA~x UCS:  PROTO-CUNEIFORM SIGN ZA-V	1629
	PCSL: ZABALAM~a CDLI: ZABALAM~a UCS:  PROTO-CUNEIFORM SIGN ZABALAM-A	1630
	PCSL: ZABALAM~b CDLI: ZABALAM~b UCS:  PROTO-CUNEIFORM SIGN ZABALAM-B	1631
	PCSL: ZADIM CDLI: ZADIM Unicode status: not proposed due to chronological scope	1632
	PCSL: ZAG~a CDLI: ZAG~a UCS:  PROTO-CUNEIFORM SIGN ZAG-A	1633

	PCSL: ZAG~a~v1 CDLI: ZAG~a UCS:  PROTO-CUNEIFORM SIGN ZAG-A VARIANT 1 • Variant of  ZAG~a	1634
	PCSL: ZAG~b CDLI: ZAG~b UCS:  PROTO-CUNEIFORM SIGN ZAG-B	1635
	PCSL: ZAG~c CDLI: ZAG~c UCS:  PROTO-CUNEIFORM SIGN ZAG-C	1636
	PCSL: ZAR~a CDLI: ZAR~a UCS:  PROTO-CUNEIFORM SIGN ZAR-A	1637
	PCSL: ZAR~b1 CDLI: ZAR~b1 UCS:  PROTO-CUNEIFORM SIGN ZAR-B1	1638
	PCSL: ZAR~b2 CDLI: ZAR~b2 UCS:  PROTO-CUNEIFORM SIGN ZAR-B2	1639
	PCSL: ZAR~c CDLI: ZAR~c UCS:  PROTO-CUNEIFORM SIGN ZAR-C	1640
	PCSL: ZATU620 CDLI: ZATU620 UCS:  PROTO-CUNEIFORM SIGN ZATU620	1641
	PCSL: ZATU621~a CDLI: ZATU621~a UCS:  PROTO-CUNEIFORM SIGN ZATU621-A	1642
	PCSL: ZATU621~b CDLI: ZATU621~b UCS:  PROTO-CUNEIFORM SIGN ZATU621-B	1643
	PCSL: ZATU621~c CDLI: ZATU621~c UCS:  PROTO-CUNEIFORM SIGN ZATU621-C	1644

	PCSL: ZATU621~d CDLI: ZATU621~d UCS:  PROTO-CUNEIFORM SIGN ZATU621-D	1645
	PCSL: ZATU622 CDLI: ZATU622 UCS:  PROTO-CUNEIFORM SIGN ZATU622	1646
	PCSL: ZATU623 CDLI: ZATU623 UCS:  PROTO-CUNEIFORM SIGN ZATU623	1647
	PCSL: ZATU623~v1 CDLI: ZATU623 UCS:  PROTO-CUNEIFORM SIGN ZATU623 VARIANT 1 • Variant of  ZATU623	1648
	PCSL: ZATU623~v2 CDLI: ZATU623 UCS:  PROTO-CUNEIFORM SIGN ZATU623 VARIANT 2 • Variant of  ZATU623	1649
	PCSL: ZATU624~a CDLI: ZATU624~a UCS:  PROTO-CUNEIFORM SIGN ZATU624-A	1650
	PCSL: ZATU624~b CDLI: ZATU624~b UCS:  PROTO-CUNEIFORM SIGN ZATU624-B	1651
	PCSL: ZATU624~c CDLI: ZATU624~c UCS:  PROTO-CUNEIFORM SIGN ZATU624-C	1652
	PCSL: ZATU625 CDLI: ZATU625 UCS:  PROTO-CUNEIFORM SIGN ZATU625	1653
	PCSL: ZATU625~v1 CDLI: ZATU625 UCS:  PROTO-CUNEIFORM SIGN ZATU625 VARIANT 1 • Variant of  ZATU625	1654

	PCSL: ZATU626~a CDLI: ZATU626~a UCS: 𒂠 PROTO-CUNEIFORM SIGN ZATU626-A	1655
	PCSL: ZATU626~b CDLI: ZATU626~b UCS: 𒂡 PROTO-CUNEIFORM SIGN ZATU626-B	1656
	PCSL: ZATU626~c CDLI: ZATU626~c UCS: 𒂢 PROTO-CUNEIFORM SIGN ZATU626-C	1657
	PCSL: ZATU627 CDLI: ZATU627 UCS: 𒂣 PROTO-CUNEIFORM SIGN ZATU627	1658
	PCSL: ZATU628~a CDLI: ZATU628~a UCS: ܶ PROTO-CUNEIFORM SIGN ZATU628-A	1659
	PCSL: ZATU628~a~v1 CDLI: ZATU628~a UCS: ܶ PROTO-CUNEIFORM SIGN ZATU628-A VARIANT 1 • Variant of ܶ ZATU628~a	1660
	PCSL: ZATU628~b CDLI: ZATU628~b UCS: ܷ PROTO-CUNEIFORM SIGN ZATU628-B	1661
	PCSL: ZATU629 CDLI: ZATU629 UCS: ܹ PROTO-CUNEIFORM SIGN ZATU629	1662
	PCSL: ZATU629~v1 CDLI: ZATU629 UCS: ܹ PROTO-CUNEIFORM SIGN ZATU629 VARIANT 1 • Variant of ܹ ZATU629	1663
	PCSL: ZATU630 CDLI: ZATU630 UCS: ܻ PROTO-CUNEIFORM SIGN ZATU630	1664
	PCSL: ZATU631 CDLI: ZATU631 UCS: ܼ PROTO-CUNEIFORM SIGN ZATU631	1665

	PCSL: ZATU632~a CDLI: ZATU632~a UCS: << PROTO-CUNEIFORM SIGN ZATU632-A	1666
	PCSL: ZATU632~a~v1 CDLI: ZATU632~a UCS: << PROTO-CUNEIFORM SIGN ZATU632-A VARIANT 1 • Variant of << ZATU632~a	1667
	PCSL: ZATU632~b CDLI: ZATU632~b UCS: < PROTO-CUNEIFORM SIGN ZATU632-B	1668
	PCSL: ZATU632~c CDLI: ZATU632~c UCS: < PROTO-CUNEIFORM SIGN ZATU632-C	1669
	PCSL: ZATU633~a CDLI: ZATU633~a UCS: << PROTO-CUNEIFORM SIGN ZATU633-A	1670
	PCSL: ZATU633~b CDLI: ZATU633~b UCS: <> PROTO-CUNEIFORM SIGN ZATU633-B	1671
	PCSL: ZATU634 CDLI: ZATU634 UCS: << PROTO-CUNEIFORM SIGN ZATU634	1672
	PCSL: ZATU635 CDLI: ZATU635 UCS: << PROTO-CUNEIFORM SIGN ZATU635	1673
	PCSL: ZATU636 CDLI: ZATU636 UCS: << PROTO-CUNEIFORM SIGN ZATU636	1674
	PCSL: ZATU636~v1 CDLI: ZATU636 UCS: << PROTO-CUNEIFORM SIGN ZATU636 VARIANT 1 • Variant of << ZATU636	1675
	PCSL: ZATU637 CDLI: ZATU637 UCS: <> PROTO-CUNEIFORM SIGN ZATU637	1676

	PCSL: ZATU639 CDLI: ZATU639 UCS:  PROTO-CUNEIFORM SIGN ZATU639	1677
	PCSL: ZATU640 CDLI: ZATU640 UCS:  PROTO-CUNEIFORM SIGN ZATU640 • Has a fragmentary or missing portion	1678
	PCSL: ZATU641 CDLI: ZATU641 UCS:  PROTO-CUNEIFORM SIGN ZATU641	1679
	PCSL: ZATU642 CDLI: ZATU642 UCS:  PROTO-CUNEIFORM SIGN ZATU642	1680
	PCSL: ZATU643 CDLI: ZATU643 UCS:  PROTO-CUNEIFORM SIGN ZATU643 • Has a fragmentary or missing portion	1681
	PCSL: ZATU644~a CDLI: ZATU644~a UCS:  PROTO-CUNEIFORM SIGN ZATU644-A	1682
	PCSL:  ZATU644~ax1(N14)  CDLI:  ZATU644~ax1(N14)  UCS:  PROTO-CUNEIFORM SIGN ZATU644-A TIMES ONE-N14	1683
	PCSL: ZATU644~b CDLI: ZATU644~b UCS:  PROTO-CUNEIFORM SIGN ZATU644-B	1684
	PCSL: ZATU646 CDLI: ZATU646 UCS:  PROTO-CUNEIFORM SIGN ZATU646	1685
	PCSL: ZATU647 CDLI: ZATU647 UCS:  PROTO-CUNEIFORM SIGN ZATU647	1686

 PCSL: ZATU647~v1 1687

CDLI: ZATU647

UCS:  PROTO-CUNEIFORM SIGN ZATU647 VARIANT 1

• Variant of  ZATU647

 PCSL: ZATU648 1688

CDLI: ZATU648

UCS:  PROTO-CUNEIFORM SIGN ZATU648

 PCSL: ZATU649 1689

CDLI: ZATU649

UCS:  PROTO-CUNEIFORM SIGN ZATU649

 PCSL: ZATU649~v1 1690

CDLI: ZATU649

UCS:  PROTO-CUNEIFORM SIGN ZATU649 VARIANT 1

• Variant of  ZATU649

 PCSL: ZATU650 1691

CDLI: ZATU650

UCS:  PROTO-CUNEIFORM SIGN ZATU650

 PCSL: ZATU651 1692

CDLI: ZATU651

UCS:  PROTO-CUNEIFORM SIGN ZATU651

 PCSL: |ZATU651xAN| 1693

CDLI: |ZATU651xAN|

UCS:  PROTO-CUNEIFORM SIGN ZATU651 TIMES AN

 PCSL: |ZATU651xEN~a~v2| 1694

CDLI: |ZATU651xEN~a|

UCS:  PROTO-CUNEIFORM SIGN ZATU651 TIMES EN-A VARIANT 2

 PCSL: |ZATU651xGAR| 1695

CDLI: |ZATU651xGAR|

UCS:  PROTO-CUNEIFORM SIGN ZATU651 TIMES GAR

 PCSL: |ZATU651xMA| 1696

CDLI: |ZATU651xMA|

UCS:  PROTO-CUNEIFORM SIGN ZATU651 TIMES MA

	PCSL:  ZATU651xNUN~a  CDLI:  ZATU651xNUN~a  UCS:  PROTO-CUNEIFORM SIGN ZATU651 TIMES NUN-A	1697
	PCSL:  ZATU651xX  CDLI:  ZATU651xX  UCS:  PROTO-CUNEIFORM SIGN ZATU651 TIMES X • Has a fragmentary or missing portion	1698
	PCSL:  ZATU651xZAR~c  CDLI:  ZATU651xZAR~c  UCS:  PROTO-CUNEIFORM SIGN ZATU651 TIMES ZAR-C	1699
	PCSL: ZATU651@g CDLI: ZATU651@g UCS:  PROTO-CUNEIFORM SIGN ZATU651 GUNU	1700
	PCSL: ZATU651~v1 CDLI: ZATU651 UCS:  PROTO-CUNEIFORM SIGN ZATU651 VARIANT 1 • Variant of  ZATU651	1701
	PCSL: ZATU651~v2 CDLI: ZATU651 UCS:  PROTO-CUNEIFORM SIGN ZATU651 VARIANT 2 • Variant of  ZATU651	1702
	PCSL:  ZATU651~v2xSHE~a  CDLI:  ZATU651xSHE~a  UCS:  PROTO-CUNEIFORM SIGN ZATU651 VARIANT 2 TIMES SHE-A	1703
	PCSL: ZATU659 CDLI: ZATU659 UCS:  PROTO-CUNEIFORM SIGN ZATU659	1704
	PCSL:  ZATU659x1(N01)  CDLI:  ZATU659x1(N01)  UCS:  PROTO-CUNEIFORM SIGN ZATU659 TIMES ONE-N1	1705
	PCSL:  ZATU659x1(N14)  CDLI:  ZATU659x1(N14)  UCS:  PROTO-CUNEIFORM SIGN ZATU659 TIMES ONE-N14	1706

	PCSL:  ZATU659x1(N58@t)  CDLI:  ZATU659x1(N58)@t  UCS: ☈ PROTO-CUNEIFORM SIGN ZATU659 TIMES ONE-N58 TENU • CDLI name normalized in PCSL: modifier notation revised	1707
	PCSL: ZATU662 CDLI: ZATU662 UCS: <≡ PROTO-CUNEIFORM SIGN ZATU662	1708
	PCSL:  ZATU662x1(N14)  CDLI:  ZATU662x1(N14)  UCS: <≡ PROTO-CUNEIFORM SIGN ZATU662 TIMES ONE-N14	1709
	PCSL: ZATU662~v1 CDLI: ZATU662 UCS: <≡ PROTO-CUNEIFORM SIGN ZATU662 VARIANT 1 • Variant of <≡ ZATU662	1710
	PCSL:  ZATU662~v1x1(N14)  CDLI:  ZATU662x1(N14)  UCS: <≡ PROTO-CUNEIFORM SIGN ZATU662 VARIANT 1 TIMES ONE-N14 • Variant of <≡  ZATU662x1(N14)	1711
	PCSL: ZATU662~v2 CDLI: ZATU662 UCS: <≡ PROTO-CUNEIFORM SIGN ZATU662 VARIANT 2 • Variant of <≡ ZATU662	1712
	PCSL:  ZATU662~v2x1(N14)  CDLI:  ZATU662x1(N14)  UCS: <≡ PROTO-CUNEIFORM SIGN ZATU662 VARIANT 2 TIMES ONE-N14 • Variant of <≡  ZATU662x1(N14)	1713
	PCSL: ZATU662~v3 CDLI: ZATU662 UCS: <≡ PROTO-CUNEIFORM SIGN ZATU662 VARIANT 3 • Variant of <≡ ZATU662	1714
	PCSL: ZATU664 CDLI: ZATU664 UCS: <≡ PROTO-CUNEIFORM SIGN ZATU664	1715
	PCSL: ZATU665 CDLI: ZATU665 UCS: ☈ PROTO-CUNEIFORM SIGN ZATU665	1716

	PCSL: ZATU666 CDLI: ZATU666 UCS:  PROTO-CUNEIFORM SIGN ZATU666	1717
	PCSL: ZATU667 CDLI: ZATU667 UCS:  PROTO-CUNEIFORM SIGN ZATU667	1718
	PCSL: ZATU668 CDLI: ZATU668 UCS:  PROTO-CUNEIFORM SIGN ZATU668	1719
	PCSL: ZATU669 CDLI: ZATU669 UCS:  PROTO-CUNEIFORM SIGN ZATU669	1720
	PCSL: ZATU670 CDLI: ZATU670 UCS:  PROTO-CUNEIFORM SIGN ZATU670 • Has a fragmentary or missing portion	1721
	PCSL: ZATU672 CDLI: ZATU672 UCS:  PROTO-CUNEIFORM SIGN ZATU672	1722
	PCSL: ZATU674 CDLI: ZATU674 UCS:  PROTO-CUNEIFORM SIGN ZATU674	1723
	PCSL: ZATU675~a CDLI: ZATU675~a UCS:  PROTO-CUNEIFORM SIGN ZATU675-A	1724
	PCSL: ZATU675~b CDLI: ZATU675~b UCS:  PROTO-CUNEIFORM SIGN ZATU675-B	1725
	PCSL: ZATU675~b~v1 CDLI: ZATU675~b UCS:  PROTO-CUNEIFORM SIGN ZATU675-B VARIANT 1 • Variant of  ZATU675~b	1726
	PCSL: ZATU675~c CDLI: ZATU675~c UCS:  PROTO-CUNEIFORM SIGN ZATU675-C	1727

	PCSL: ZATU675~d CDLI: ZATU675~d UCS:  PROTO-CUNEIFORM SIGN ZATU675-D	1728
	PCSL: ZATU676~a CDLI: ZATU676~a UCS:  PROTO-CUNEIFORM SIGN ZATU676-A	1729
	PCSL: ZATU676~b CDLI: ZATU676~b UCS:  PROTO-CUNEIFORM SIGN ZATU676-B	1730
	PCSL: ZATU677~a CDLI: ZATU677~a UCS:  PROTO-CUNEIFORM SIGN ZATU677-A	1731
	PCSL: ZATU677~b CDLI: ZATU677~b UCS:  PROTO-CUNEIFORM SIGN ZATU677-B	1732
	PCSL: ZATU678 CDLI: ZATU678 UCS:  PROTO-CUNEIFORM SIGN ZATU678	1733
	PCSL: ZATU679 CDLI: ZATU679 UCS:  PROTO-CUNEIFORM SIGN ZATU679	1734
	PCSL: ZATU680~a1 CDLI: ZATU680~a1 UCS:  PROTO-CUNEIFORM SIGN ZATU680-A1	1735
	PCSL: ZATU680~a2 CDLI: ZATU680~a2 UCS:  PROTO-CUNEIFORM SIGN ZATU680-A2	1736
	PCSL: ZATU680~b CDLI: ZATU680~b UCS:  PROTO-CUNEIFORM SIGN ZATU680-B	1737
	PCSL: ZATU680~b~v1 CDLI: ZATU680~b UCS:  PROTO-CUNEIFORM SIGN ZATU680-B VARIANT 1 • Variant of  ZATU680~b	1738

	PCSL: ZATU680~d CDLI: ZATU680~d UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU680-D	1739
	PCSL: ZATU680~e CDLI: ZATU680~e UCS: 𒂕 PROTO-CUNEIFORM SIGN ZATU680-E	1740
	PCSL: ZATU681 CDLI: ZATU681 UCS: ܃ PROTO-CUNEIFORM SIGN ZATU681	1741
	PCSL: ZATU682 CDLI: ZATU682 UCS: ܃ PROTO-CUNEIFORM SIGN ZATU682	1742
	PCSL: ZATU683~a CDLI: ZATU683~a UCS: ܃ PROTO-CUNEIFORM SIGN ZATU683-A	1743
	PCSL: ZATU683~b CDLI: ZATU683~b UCS: ܃ PROTO-CUNEIFORM SIGN ZATU683-B	1744
	PCSL: ZATU683@t CDLI: ZATU683@t UCS: ܃ PROTO-CUNEIFORM SIGN ZATU683 TENU	1745
	PCSL: ZATU684 CDLI: ZATU684 UCS: ܃ PROTO-CUNEIFORM SIGN ZATU684	1746
	PCSL: ZATU685 CDLI: ZATU685 UCS: ܃ PROTO-CUNEIFORM SIGN ZATU685	1747
	PCSL: ZATU686~a CDLI: ZATU686~a UCS: ܃ PROTO-CUNEIFORM SIGN ZATU686-A	1748
	PCSL: ZATU686~b CDLI: ZATU686~b UCS: ܃ PROTO-CUNEIFORM SIGN ZATU686-B	1749

	PCSL: ZATU686~c CDLI: ZATU686~c UCS: ☈ PROTO-CUNEIFORM SIGN ZATU686-C	1750
	PCSL: ZATU687 CDLI: ZATU687 UCS: ☉ PROTO-CUNEIFORM SIGN ZATU687	1751
	PCSL: ZATU688~a CDLI: ZATU688~a UCS: ☊ PROTO-CUNEIFORM SIGN ZATU688-A	1752
	PCSL: ZATU688~b CDLI: ZATU688~b UCS: ☋ PROTO-CUNEIFORM SIGN ZATU688-B	1753
	PCSL: ZATU689 CDLI: ZATU689 UCS: ☌ PROTO-CUNEIFORM SIGN ZATU689	1754
	PCSL: ZATU690 CDLI: ZATU690 UCS: ☍ PROTO-CUNEIFORM SIGN ZATU690	1755
	PCSL: ZATU691 CDLI: ZATU691 UCS: ☎ PROTO-CUNEIFORM SIGN ZATU691	1756
	PCSL: ZATU692 CDLI: ZATU692 UCS: ☏ PROTO-CUNEIFORM SIGN ZATU692	1757
	PCSL: ZATU693 CDLI: ZATU693 UCS: ☐ PROTO-CUNEIFORM SIGN ZATU693	1758
	PCSL: ZATU693@t CDLI: ZATU693@t UCS: ☑ PROTO-CUNEIFORM SIGN ZATU693 TENU	1759

	PCSL: ZATU693~v1 CDLI: ZATU693 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU693 VARIANT 1 • Variant of	1760
	PCSL: ZATU693~v2 CDLI: ZATU693 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU693 VARIANT 2 • Variant of	1761
	PCSL: ZATU694~a CDLI: ZATU694~a UCS: 𒊩 PROTO-CUNEIFORM SIGN ZATU694-A	1762
	PCSL: ZATU694~b CDLI: ZATU694~b UCS: 𒊩 PROTO-CUNEIFORM SIGN ZATU694-B	1763
	PCSL: ZATU694~c CDLI: ZATU694~c UCS: 𒊩 PROTO-CUNEIFORM SIGN ZATU694-C	1764
	PCSL: ZATU694~c~v1 CDLI: ZATU694~c UCS: 𒊩 PROTO-CUNEIFORM SIGN ZATU694-C VARIANT 1 • Variant of	1765
	PCSL: ZATU694~d CDLI: ZATU694~d UCS: 𒊩 PROTO-CUNEIFORM SIGN ZATU694-D	1766
	PCSL: ZATU694~d@t CDLI: ZATU694~d@t UCS: 𒊩 PROTO-CUNEIFORM SIGN ZATU694-D TENU	1767
	PCSL: ZATU695 CDLI: ZATU695 UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU695	1768
	PCSL: ZATU696 CDLI: ZATU696 UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU696	1769

	PCSL: ZATU697~a CDLI: ZATU697~a UCS: ☩ PROTO-CUNEIFORM SIGN ZATU697-A	1770
	PCSL: ZATU697~a~v1 CDLI: ZATU697~a UCS: ☩ PROTO-CUNEIFORM SIGN ZATU697-A VARIANT 1 • Variant of ☩ ZATU697~a	1771
	PCSL: ZATU697~a~v2 CDLI: ZATU697~a UCS: ☩ PROTO-CUNEIFORM SIGN ZATU697-A VARIANT 2 • Variant of ☩ ZATU697~a	1772
	PCSL: ZATU697~a~v3 CDLI: ZATU697~a UCS: ☩ PROTO-CUNEIFORM SIGN ZATU697-A VARIANT 3 • Variant of ☩ ZATU697~a	1773
	PCSL: ZATU697~b CDLI: ZATU697~b UCS: ☩ PROTO-CUNEIFORM SIGN ZATU697-B	1774
	PCSL: ZATU697~c CDLI: ZATU697~c UCS: ☩ PROTO-CUNEIFORM SIGN ZATU697-C	1775
	PCSL: ZATU699~a CDLI: ZATU699~a UCS: ☩ PROTO-CUNEIFORM SIGN ZATU699-A	1776
	PCSL: ZATU699~b CDLI: ZATU699~b UCS: ☩ PROTO-CUNEIFORM SIGN ZATU699-B	1777
	PCSL: ZATU700 CDLI: ZATU700 UCS: ☩ PROTO-CUNEIFORM SIGN ZATU700	1778
	PCSL: ZATU701 CDLI: ZATU701 UCS: ☩ PROTO-CUNEIFORM SIGN ZATU701	1779

	PCSL: ZATU702 CDLI: ZATU702 UCS:  PROTO-CUNEIFORM SIGN ZATU702	1780
	PCSL: ZATU703 CDLI: ZATU703 UCS:  PROTO-CUNEIFORM SIGN ZATU703	1781
	PCSL: ZATU704 CDLI: ZATU704 UCS:  PROTO-CUNEIFORM SIGN ZATU704 • Has a fragmentary or missing portion	1782
	PCSL: ZATU705 CDLI: ZATU705 UCS:  PROTO-CUNEIFORM SIGN ZATU705	1783
	PCSL: ZATU706 CDLI: ZATU706 UCS:  PROTO-CUNEIFORM SIGN ZATU706	1784
	PCSL: ZATU707~a CDLI: ZATU707~a UCS:  PROTO-CUNEIFORM SIGN ZATU707-A	1785
	PCSL: ZATU707~b CDLI: ZATU707~b UCS:  PROTO-CUNEIFORM SIGN ZATU707-B	1786
	PCSL: ZATU708 CDLI: ZATU708 UCS:  PROTO-CUNEIFORM SIGN ZATU708	1787
	PCSL: ZATU709 CDLI: ZATU709 UCS:  PROTO-CUNEIFORM SIGN ZATU709	1788
	PCSL: ZATU710 CDLI: ZATU710 UCS:  PROTO-CUNEIFORM SIGN ZATU710	1789



PCSL: ZATU710~v1  
 CDLI: ZATU710  
 UCS: PROTO-CUNEIFORM SIGN ZATU710 VARIANT 1  
 • Variant of ZATU710



PCSL: ZATU711  
 CDLI: ZATU711  
 UCS: PROTO-CUNEIFORM SIGN ZATU711



PCSL: ZATU711~v1  
 CDLI: ZATU711  
 UCS: PROTO-CUNEIFORM SIGN ZATU711 VARIANT 1  
 • Variant of ZATU711



PCSL: |ZATU711~v1xHI@g~a|  
 CDLI: |ZATU711xHI@g~a|  
 UCS: PROTO-CUNEIFORM SIGN ZATU711 VARIANT 1 TIMES HI GUNU-A



PCSL: |ZATU711~v1xX|  
 CDLI: |ZATU711xX|  
 UCS: PROTO-CUNEIFORM SIGN ZATU711 VARIANT 1 TIMES X  
 • Has a fragmentary or missing portion



PCSL: ZATU713  
 CDLI: ZATU713  
 UCS: PROTO-CUNEIFORM SIGN ZATU713



PCSL: ZATU714  
 CDLI: ZATU714  
 UCS: PROTO-CUNEIFORM SIGN ZATU714



PCSL: |ZATU714.RU|  
 CDLI: |ZATU714.RU|  
 UCS: PROTO-CUNEIFORM SIGN ZATU714 BESIDE RU



PCSL: |ZATU714xHI@g~a|  
 CDLI: |ZATU714xHI@g~a|  
 UCS: PROTO-CUNEIFORM SIGN ZATU714 TIMES HI GUNU-A



PCSL: |ZATU714xX|  
 CDLI: |ZATU714xX|  
 UCS: PROTO-CUNEIFORM SIGN ZATU714 TIMES X  
 • Has a fragmentary or missing portion

	PCSL: ZATU717 CDLI: ZATU717 UCS: ▷ PROTO-CUNEIFORM SIGN ZATU717	1800
	PCSL: ZATU718 CDLI: ZATU718 UCS: ☂ PROTO-CUNEIFORM SIGN ZATU718	1801
	PCSL: ZATU719 CDLI: ZATU719 UCS: ☃ PROTO-CUNEIFORM SIGN ZATU719	1802
	PCSL: ZATU720 CDLI: ZATU720 UCS: ☄ PROTO-CUNEIFORM SIGN ZATU720	1803
	PCSL: ZATU721 CDLI: ZATU721 UCS: ==> PROTO-CUNEIFORM SIGN ZATU721	1804
	PCSL: ZATU722 CDLI: ZATU722 UCS: =< PROTO-CUNEIFORM SIGN ZATU722	1805
	PCSL: ZATU723 CDLI: ZATU723 UCS: => PROTO-CUNEIFORM SIGN ZATU723	1806
	PCSL: ZATU724 CDLI: ZATU724 UCS: =>• PROTO-CUNEIFORM SIGN ZATU724	1807
	PCSL: ZATU725 CDLI: ZATU725 UCS: =<• PROTO-CUNEIFORM SIGN ZATU725	1808
	PCSL: ZATU725~v1 CDLI: ZATU725 UCS: =<• PROTO-CUNEIFORM SIGN ZATU725 VARIANT 1 • Variant of =<• ZATU725	1809
	PCSL: ZATU726~a CDLI: ZATU726~a UCS: => PROTO-CUNEIFORM SIGN ZATU726-A	1810

	PCSL: ZATU726~c CDLI: ZATU726~c UCS: ☈ PROTO-CUNEIFORM SIGN ZATU726-C	1811
	PCSL: ZATU726~d CDLI: ZATU726~d UCS: ☉ PROTO-CUNEIFORM SIGN ZATU726-D	1812
	PCSL: ZATU727 CDLI: ZATU727 UCS: ☊ PROTO-CUNEIFORM SIGN ZATU727	1813
	PCSL: ZATU728 CDLI: ZATU728 UCS: ☋ PROTO-CUNEIFORM SIGN ZATU728	1814
	PCSL: ZATU729 CDLI: ZATU729 UCS: ☌ PROTO-CUNEIFORM SIGN ZATU729	1815
	PCSL: ZATU729~v1 CDLI: ZATU729 UCS: ☍ PROTO-CUNEIFORM SIGN ZATU729 VARIANT 1 • Variant of ☌ ZATU729	1816
	PCSL: ZATU730 CDLI: ZATU730 UCS: ☎ PROTO-CUNEIFORM SIGN ZATU730	1817
	PCSL: ZATU732 CDLI: ZATU732 UCS: ☏ PROTO-CUNEIFORM SIGN ZATU732	1818
	PCSL: ZATU733 CDLI: ZATU733 UCS: ☐ PROTO-CUNEIFORM SIGN ZATU733 • Has a fragmentary or missing portion	1819
	PCSL: ZATU734 CDLI: ZATU734 UCS: ☑ PROTO-CUNEIFORM SIGN ZATU734	1820
	PCSL: ZATU735~a CDLI: ZATU735~a UCS: ☒ PROTO-CUNEIFORM SIGN ZATU735-A	1821

	PCSL: ZATU735~b CDLI: ZATU735~b UCS:  PROTO-CUNEIFORM SIGN ZATU735-B	1822
	PCSL: ZATU735~b~v1 CDLI: ZATU735~b UCS:  PROTO-CUNEIFORM SIGN ZATU735-B VARIANT 1 • Variant of	1823
	PCSL: ZATU735~b~v2 CDLI: ZATU735~b UCS:  PROTO-CUNEIFORM SIGN ZATU735-B VARIANT 2 • Variant of	1824
	PCSL: ZATU735~c CDLI: ZATU735~c UCS:  PROTO-CUNEIFORM SIGN ZATU735-C	1825
	PCSL: ZATU736~a CDLI: ZATU736~a UCS:  PROTO-CUNEIFORM SIGN ZATU736-A	1826
	PCSL: ZATU736~b CDLI: ZATU736~b UCS:  PROTO-CUNEIFORM SIGN ZATU736-B	1827
	PCSL: ZATU737 CDLI: ZATU737 UCS:  PROTO-CUNEIFORM SIGN ZATU737	1828
	PCSL:  ZATU737xAB~a  CDLI:  ZATU737xAB~a  UCS:  PROTO-CUNEIFORM SIGN ZATU737 TIMES AB-A	1829
	PCSL:  ZATU737xBAU~a  CDLI:  ZATU737xBAU~a  UCS:  PROTO-CUNEIFORM SIGN ZATU737 TIMES BU-A	1830
	PCSL:  ZATU737xBUR~a  CDLI:  ZATU737xBUR~a  UCS:  PROTO-CUNEIFORM SIGN ZATU737 TIMES BUR-A	1831
	PCSL:  ZATU737xDI  CDLI:  ZATU737xDI  UCS:  PROTO-CUNEIFORM SIGN ZATU737 TIMES DI	1832

	PCSL:  ZATU737xE~a  CDLI:  ZATU737xE~a  UCS: ☈ PROTO-CUNEIFORM SIGN ZATU737 TIMES E-A	1833
	PCSL:  ZATU737xEN~a~v2  CDLI:  ZATU737xEN~a  UCS: ☈ PROTO-CUNEIFORM SIGN ZATU737 TIMES EN-A VARIANT 2	1834
	PCSL:  ZATU737xGAR  CDLI:  ZATU737xGAR  UCS: ☈ PROTO-CUNEIFORM SIGN ZATU737 TIMES GAR	1835
	PCSL:  ZATU737xNI~a@g  CDLI:  ZATU737xNI~a@g  UCS: ☈ PROTO-CUNEIFORM SIGN ZATU737 TIMES NI-A GUNU	1836
	PCSL:  ZATU737xNIMGIR  CDLI:  ZATU737xNIMGIR  UCS: ☈ PROTO-CUNEIFORM SIGN ZATU737 TIMES NIMGIR	1837
	PCSL:  ZATU737xSU~a  CDLI:  ZATU737xSU~a  UCS: ☈ PROTO-CUNEIFORM SIGN ZATU737 TIMES SU-A	1838
	PCSL:  ZATU737xSE~a  CDLI:  ZATU737xSE~a  UCS: ☈ PROTO-CUNEIFORM SIGN ZATU737 TIMES SHE-A	1839
	PCSL:  ZATU737xSITA~a1  CDLI:  ZATU737xSITA~a1  UCS: ☈ PROTO-CUNEIFORM SIGN ZATU737 TIMES SHITA-A1	1840
	PCSL:  ZATU737xSITA~b1@g  CDLI:  ZATU737xSITA~b1@g  Unicode status: not proposed due to chronological scope	1841
	PCSL:  ZATU737xUNUG~a~v1  CDLI:  ZATU737xUNUG~a  UCS: ☈ PROTO-CUNEIFORM SIGN ZATU737 TIMES UNUG-A VARIANT 1	1842
	PCSL: ZATU737~v1 CDLI: ZATU737 UCS: ☈ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 1 • Variant of ☈ ZATU737	1843

	PCSL:  ZATU737~v1×EN~b~v1  CDLI:  ZATU737xEN~b  UCS: ☈ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 1 TIMES EN-B VARIANT 1	1844
	PCSL:  ZATU737~v1×GAR  CDLI:  ZATU737xGAR  UCS: ☉ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 1 TIMES GAR • Variant of ☈  ZATU737xGAR	1845
	PCSL: ZATU737~v2 CDLI: ZATU737 UCS: ☊ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 2 • Variant of ☉ ZATU737	1846
	PCSL:  ZATU737~v2×DI  CDLI:  ZATU737xDI  UCS: ☋ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 2 TIMES DI • Variant of ☉  ZATU737xDI	1847
	PCSL:  ZATU737~v2×X  CDLI:  ZATU737xX  UCS: ☌ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 2 TIMES X • Has a fragmentary or missing portion	1848
	PCSL:  ZATU737~v3×SAL  CDLI:  ZATU737xSAL  UCS: ☍ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 3 TIMES SAL • Has a compound-only sign: ☉ ZATU737~v3	1849
	PCSL:  ZATU737~v3×U4  CDLI:  ZATU737xU4  UCS: ☎ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 3 TIMES U4 • Has a compound-only sign: ☉ ZATU737~v3	1850
	PCSL: ZATU749~a CDLI: ZATU749~a UCS: ☏ PROTO-CUNEIFORM SIGN ZATU749-A	1851
	PCSL: ZATU749~a~v1 CDLI: ZATU749~a UCS: ☐ PROTO-CUNEIFORM SIGN ZATU749-A VARIANT 1 • Variant of ☏ ZATU749~a	1852

	PCSL: ZATU749~a~v2 CDLI: ZATU749~a UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU749-A VARIANT 2 • Variant of  ZATU749~a	1853
	PCSL: ZATU749~b CDLI: ZATU749~b UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU749-B	1854
	PCSL: ZATU749~c CDLI: ZATU749~c UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU749-C	1855
	PCSL: ZATU750 CDLI: ZATU750 UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU750	1856
	PCSL: ZATU750~v1 CDLI: ZATU750 UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU750 VARIANT 1 • Variant of  ZATU750	1857
	PCSL: ZATU750~v2 CDLI: ZATU750 UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU750 VARIANT 2 • Variant of  ZATU750	1858
	PCSL: ZATU750~v3 CDLI: ZATU750 UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU750 VARIANT 3 • Variant of  ZATU750	1859
	PCSL: ZATU751~a CDLI: ZATU751~a UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU751-A	1860
	PCSL: ZATU751~b CDLI: ZATU751~b UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU751-B	1861
	PCSL: ZATU752 CDLI: ZATU752 UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU752	1862

(A vertical column with three horizontal strokes)	PCSL: ZATU752~v1 CDLI: ZATU752 UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU752 VARIANT 1 • Variant of  ZATU752	1863
(A vertical column with four horizontal strokes)	PCSL: ZATU753 CDLI: ZATU753 UCS: 𒂕 PROTO-CUNEIFORM SIGN ZATU753	1864
(A vertical column with five horizontal strokes)	PCSL: ZATU754 CDLI: ZATU754 UCS: 𒂖 PROTO-CUNEIFORM SIGN ZATU754	1865
(A vertical column with two horizontal strokes)	PCSL: ZATU755~a CDLI: ZATU755~a UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU755-A	1866
(A vertical column with one horizontal stroke)	PCSL: ZATU755~b CDLI: ZATU755~b UCS: 𒂘 PROTO-CUNEIFORM SIGN ZATU755-B	1867
(A vertical column with one horizontal stroke)	PCSL: ZATU756 CDLI: ZATU756 UCS: 𒂙 PROTO-CUNEIFORM SIGN ZATU756	1868
(A vertical column with one horizontal stroke)	PCSL: ZATU756~v1 CDLI: ZATU756 UCS: 𒂚 PROTO-CUNEIFORM SIGN ZATU756 VARIANT 1 • Variant of  ZATU756	1869
(A vertical column with one horizontal stroke)	PCSL: ZATU757 CDLI: ZATU757 UCS: 𒂛 PROTO-CUNEIFORM SIGN ZATU757	1870
(A vertical column with one horizontal stroke)	PCSL: ZATU757~v1 CDLI: ZATU757 UCS: 𒂜 PROTO-CUNEIFORM SIGN ZATU757 VARIANT 1 • Variant of  ZATU757	1871
(A vertical column with one horizontal stroke)	PCSL: ZATU758 CDLI: ZATU758 UCS: 𒂝 PROTO-CUNEIFORM SIGN ZATU758	1872



PCSL: ZATU759  
 CDLI: ZATU759  
 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU759

1873



PCSL: |ZATU759xKU<sub>6</sub>~a|  
 CDLI: |ZATU759xKU6~a|  
 UCS: 𒂗 𒆠 PROTO-CUNEIFORM SIGN ZATU759 TIMES KU6-A

1874



PCSL: |ZATU759x(KU<sub>6</sub>~a+KU<sub>6</sub>~a)|  
 CDLI: |ZATU759x(KU6~a+KU6~a)|  
 UCS: 𒂗 𒆠 PROTO-CUNEIFORM SIGN ZATU759 TIMES KU6-A JOINING KU6-A

1875



PCSL: |ZATU759xKU<sub>6</sub>~d|  
 CDLI: |ZATU759xKU6~d|  
 UCS: 𒂗 𒆠 PROTO-CUNEIFORM SIGN ZATU759 TIMES KU6-D

1876



PCSL: |ZATU759xX|  
 CDLI: |ZATU759xX|  
 UCS: 𒂗 𒆠 PROTO-CUNEIFORM SIGN ZATU759 TIMES X  

- Has a fragmentary or missing portion

1877



PCSL: |ZATU759@txX|  
 CDLI: |ZATU759@txX|  
 UCS: 𒂗 𒈚 PROTO-CUNEIFORM SIGN ZATU759 TENU TIMES X  

- Has a fragmentary or missing portion
- Has a compound-only sign: 𒂗 𒈚 ZATU759@t

1878



PCSL: ZATU759~v1  
 CDLI: ZATU759  
 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU759 VARIANT 1  

- Variant of 𒂗 ZATU759

1879



PCSL: ZATU761  
 CDLI: ZATU761  
 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU761

1880



PCSL: ZATU762~a  
 CDLI: ZATU762~a  
 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU762-A

1881



PCSL: |ZATU762~axNIM~a|  
 CDLI: |ZATU762~axNIM~a|  
 UCS: 𒂗 𒀭 𒆠 PROTO-CUNEIFORM SIGN ZATU762-A TIMES NIM-A

1882

	PCSL: ZATU762~a~v1 CDLI: ZATU762~a UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU762-A VARIANT 1 • Variant of	1883
	PCSL: ZATU762~a~v2 CDLI: ZATU762~a UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU762-A VARIANT 2 • Variant of	1884
	PCSL: ZATU762~b CDLI: ZATU762~b UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU762-B	1885
	PCSL:  ZATU762-bxAB~a  CDLI:  ZATU762-bxAB~a  UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU762-B TIMES AB-A	1886
	PCSL: ZATU764 CDLI: ZATU764 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU764	1887
	PCSL: ZATU765 CDLI: ZATU765 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU765	1888
	PCSL: ZATU766 CDLI: ZATU766 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU766	1889
	PCSL: ZATU767 CDLI: ZATU767 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU767	1890
	PCSL: ZATU768 CDLI: ZATU768 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU768 • Has a fragmentary or missing portion	1891
	PCSL: ZATU769 CDLI: ZATU769 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU769 • Has a fragmentary or missing portion	1892

	PCSL: ZATU771 CDLI: ZATU771 UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU771 • Has a fragmentary or missing portion	1893
	PCSL: ZATU772 CDLI: ZATU772 UCS: 𒂓 PROTO-CUNEIFORM SIGN ZATU772	1894
	PCSL: ZATU773~a CDLI: ZATU773~a UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU773-A	1895
	PCSL: ZATU773~a~v1 CDLI: ZATU773~a UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU773-A VARIANT 1 • Variant of 𒂔 ZATU773~a	1896
	PCSL: ZATU773~b CDLI: ZATU773~b UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU773-B	1897
	PCSL: ZATU774 CDLI: ZATU774 UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU774	1898
	PCSL: ZATU775 CDLI: ZATU775 UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU775	1899
	PCSL: ZATU776 CDLI: ZATU776 UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU776	1900
	PCSL: ZATU776~v1 CDLI: ZATU776 UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU776 VARIANT 1 • Variant of 𒂔 ZATU776	1901
	PCSL: ZATU777 CDLI: ZATU777 UCS: 𒂔 PROTO-CUNEIFORM SIGN ZATU777	1902

	PCSL: ZATU777~v1 CDLI: ZATU777 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU777 VARIANT 1 • Variant of 𒂗 ZATU777	1903
	PCSL: ZATU777~v2 CDLI: ZATU777 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU777 VARIANT 2 • Variant of 𒂗 ZATU777	1904
	PCSL: ZATU778 CDLI: ZATU778 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU778	1905
	PCSL: ZATU779 CDLI: ZATU779 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU779	1906
	PCSL: ZATU780 CDLI: ZATU780 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU780	1907
	PCSL: ZATU781 CDLI: ZATU781 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU781	1908
	PCSL: ZATU782 CDLI: ZATU782 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU782	1909
	PCSL: ZATU783 CDLI: ZATU783 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU783	1910
	PCSL: ZATU784 CDLI: ZATU784 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU784	1911
	PCSL: ZATU785 CDLI: ZATU785 UCS: 𒂗 PROTO-CUNEIFORM SIGN ZATU785 • Has a fragmentary or missing portion	1912



PCSL: ZATU786  
 CDLI: ZATU786  
 UCS: ☶ PROTO-CUNEIFORM SIGN ZATU786

1913



PCSL: ZATU787  
 CDLI: ZATU787  
 UCS: ☷ PROTO-CUNEIFORM SIGN ZATU787

1914



PCSL: ZATU788  
 CDLI: ZATU788  
 UCS: ↵ PROTO-CUNEIFORM SIGN ZATU788

1915



PCSL: ZATU789  
 CDLI: ZATU789  
 UCS: ☸ PROTO-CUNEIFORM SIGN ZATU789

1916



PCSL: ZATU791  
 CDLI: ZATU791  
 UCS: ☻ PROTO-CUNEIFORM SIGN ZATU791

1917



PCSL: ZATU792  
 CDLI: ZATU792  
 UCS: ☽ PROTO-CUNEIFORM SIGN ZATU792

1918



PCSL: ZATU795  
 CDLI: ZATU795  
 UCS: ☿ PROTO-CUNEIFORM SIGN ZATU795

1919



PCSL: ZATU797  
 CDLI: ZATU797  
 UCS: ☾ PROTO-CUNEIFORM SIGN ZATU797

1920



PCSL: ZATU798  
 CDLI: ZATU798  
 UCS: ☽ PROTO-CUNEIFORM SIGN ZATU798

1921



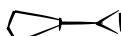
PCSL: ZATU799  
 CDLI: ZATU799  
 UCS: ☽ PROTO-CUNEIFORM SIGN ZATU799

1922



PCSL: ZATU800  
 CDLI: ZATU800  
 UCS: ☽ PROTO-CUNEIFORM SIGN ZATU800

1923

	PCSL: ZATU801 CDLI: ZATU801 UCS:  PROTO-CUNEIFORM SIGN ZATU801	1924
	PCSL: ZATU802 CDLI: ZATU802 UCS:  PROTO-CUNEIFORM SIGN ZATU802	1925
	PCSL: ZATU803 CDLI: ZATU803 UCS:  PROTO-CUNEIFORM SIGN ZATU803	1926
	PCSL: ZATU804 CDLI: ZATU804 UCS:  PROTO-CUNEIFORM SIGN ZATU804	1927
	PCSL: ZATU805 CDLI: ZATU805 UCS:  PROTO-CUNEIFORM SIGN ZATU805	1928
	PCSL: ZATU806 CDLI: ZATU806 UCS:  PROTO-CUNEIFORM SIGN ZATU806	1929
	PCSL: ZATU807 CDLI: ZATU807 UCS:  PROTO-CUNEIFORM SIGN ZATU807	1930
	PCSL: ZATU808 CDLI: ZATU808 UCS:  PROTO-CUNEIFORM SIGN ZATU808	1931
	PCSL: ZATU809 CDLI: ZATU809 UCS:  PROTO-CUNEIFORM SIGN ZATU809	1932
	PCSL: ZATU810 CDLI: ZATU810 UCS:  PROTO-CUNEIFORM SIGN ZATU810	1933

	PCSL: ZATU811 CDLI: ZATU811 UCS:  PROTO-CUNEIFORM SIGN ZATU811	1934
	PCSL: ZATU812 CDLI: ZATU812 UCS:  PROTO-CUNEIFORM SIGN ZATU812	1935
	PCSL: ZATU813 CDLI: ZATU813 UCS:  PROTO-CUNEIFORM SIGN ZATU813	1936
	PCSL: ZATU814 CDLI: ZATU814 UCS:  PROTO-CUNEIFORM SIGN ZATU814	1937
	PCSL: ZATU815 CDLI: ZATU815 UCS:  PROTO-CUNEIFORM SIGN ZATU815	1938
	PCSL: ZATU817 CDLI: ZATU817 UCS:  PROTO-CUNEIFORM SIGN ZATU817 • Has a fragmentary or missing portion	1939
	PCSL: ZATU818 CDLI: ZATU818 UCS:  PROTO-CUNEIFORM SIGN ZATU818 • Has a fragmentary or missing portion	1940
	PCSL: ZATU819 CDLI: ZATU819 UCS:  PROTO-CUNEIFORM SIGN ZATU819	1941
	PCSL: ZATU820 CDLI: ZATU820 UCS:  PROTO-CUNEIFORM SIGN ZATU820	1942
	PCSL: ZATU821 CDLI: ZATU821 UCS:  PROTO-CUNEIFORM SIGN ZATU821	1943
	PCSL: ZATU822 CDLI: ZATU822 UCS:  PROTO-CUNEIFORM SIGN ZATU822	1944

	PCSL: ZATU823 CDLI: ZATU823 UCS:  PROTO-CUNEIFORM SIGN ZATU823	1945
	PCSL: ZATU824 CDLI: ZATU824 UCS:  PROTO-CUNEIFORM SIGN ZATU824	1946
	PCSL: ZATU825 CDLI: ZATU825 UCS:  PROTO-CUNEIFORM SIGN ZATU825	1947
	PCSL: ZATU826 CDLI: ZATU826 UCS:  PROTO-CUNEIFORM SIGN ZATU826	1948
	PCSL: ZATU829 CDLI: ZATU829 UCS:  PROTO-CUNEIFORM SIGN ZATU829	1949
	PCSL: ZATU831 CDLI: ZATU831 UCS:  PROTO-CUNEIFORM SIGN ZATU831	1950
	PCSL: ZATU831@g CDLI: ZATU831@g UCS:  PROTO-CUNEIFORM SIGN ZATU831 GUNU	1951
	PCSL: ZATU832 CDLI: ZATU832 UCS:  PROTO-CUNEIFORM SIGN ZATU832	1952
	PCSL: ZATU833 CDLI: ZATU833 UCS:  PROTO-CUNEIFORM SIGN ZATU833	1953
	PCSL: ZATU834 CDLI: ZATU834 UCS:  PROTO-CUNEIFORM SIGN ZATU834	1954
	PCSL: ZATU835 CDLI: ZATU835 UCS:  PROTO-CUNEIFORM SIGN ZATU835	1955

	PCSL: ZATU836 CDLI: ZATU836 UCS: ≈ PROTO-CUNEIFORM SIGN ZATU836	1956
	PCSL: ZATU837~a CDLI: ZATU837~a UCS: -□- PROTO-CUNEIFORM SIGN ZATU837-A	1957
	PCSL: ZATU837~b CDLI: ZATU837~b UCS: □ PROTO-CUNEIFORM SIGN ZATU837-B	1958
	PCSL: ZATU838 CDLI: ZATU838 UCS: ✕ PROTO-CUNEIFORM SIGN ZATU838	1959
	PCSL: ZATU839 CDLI: ZATU839 UCS: ▷◁ PROTO-CUNEIFORM SIGN ZATU839	1960
	PCSL: ZATU839~v1 CDLI: ZATU839 UCS: ▷◁ PROTO-CUNEIFORM SIGN ZATU839 VARIANT 1 • Variant of ▷◁ ZATU839	1961
	PCSL: ZATU840 CDLI: ZATU840 UCS: ⚡ PROTO-CUNEIFORM SIGN ZATU840	1962
	PCSL: ZATU841 CDLI: ZATU841 UCS: ☒ PROTO-CUNEIFORM SIGN ZATU841	1963
	PCSL: ZATU842 CDLI: ZATU842 UCS: ⚡ PROTO-CUNEIFORM SIGN ZATU842	1964
	PCSL: ZATU843 CDLI: ZATU843 UCS: ☒ PROTO-CUNEIFORM SIGN ZATU843	1965
	PCSL: ZATU844 CDLI: ZATU844 UCS: ☒ PROTO-CUNEIFORM SIGN ZATU844	1966

	PCSL: ZATU845 CDLI: ZATU845 UCS: ☞ PROTO-CUNEIFORM SIGN ZATU845	1967
	PCSL: ZATU846 CDLI: ZATU846 UCS: ☟ PROTO-CUNEIFORM SIGN ZATU846	1968
	PCSL: ZATU847 CDLI: ZATU847 UCS: ☠ PROTO-CUNEIFORM SIGN ZATU847	1969
	PCSL: ZATU848 CDLI: ZATU848 UCS: ☡ PROTO-CUNEIFORM SIGN ZATU848	1970
	PCSL: ZATU849 CDLI: ZATU849 UCS: ☢ PROTO-CUNEIFORM SIGN ZATU849	1971
	PCSL: ZATU850 CDLI: ZATU850 UCS: ☣ PROTO-CUNEIFORM SIGN ZATU850	1972
	PCSL: ZATU851 CDLI: ZATU851 UCS: ☤ PROTO-CUNEIFORM SIGN ZATU851	1973
	PCSL: ZATU852 CDLI: ZATU852 UCS: ☥ PROTO-CUNEIFORM SIGN ZATU852	1974
	PCSL: ZATU853 CDLI: ZATU853 UCS: ☦ PROTO-CUNEIFORM SIGN ZATU853	1975
	PCSL: ZATU854 CDLI: ZATU854 UCS: ☧ PROTO-CUNEIFORM SIGN ZATU854	1976
	PCSL: ZATU855 CDLI: ZATU855 UCS: ☨ PROTO-CUNEIFORM SIGN ZATU855	1977

	PCSL: ZI~a CDLI: ZI~a UCS:  PROTO-CUNEIFORM SIGN ZI-A	1978
	PCSL: ZI~a~v1 CDLI: ZI~a UCS:  PROTO-CUNEIFORM SIGN ZI-A VARIANT 1 • Variant of  ZI~a	1979
	PCSL: ZI~b CDLI: ZI~b UCS:  PROTO-CUNEIFORM SIGN ZI-B	1980
	PCSL: ZI~d CDLI: ZI~d UCS:  PROTO-CUNEIFORM SIGN ZI-D	1981
	PCSL:  (ZU&ZU).SAR~a  CDLI:  (ZU&ZU).SAR~a  Unicode status: not proposed due to chronological scope • Has 2 instances of a compound-only sign:  zu	1982
	PCSL: ZUBI~a CDLI: ZUBI~a UCS:  PROTO-CUNEIFORM SIGN ZUBI-A	1983
	PCSL: ZUBI~b CDLI: ZUBI~b UCS:  PROTO-CUNEIFORM SIGN ZUBI-B	1984
	PCSL:  1(N02).RU  CDLI:  1(N02).RU  UCS:  PROTO-CUNEIFORM SIGN ONE-N2 BESIDE RU	1985
	PCSL:  X(N57).GAR  CDLI:  x(N57).GAR  UCS:  PROTO-CUNEIFORM SIGN X-N57 BESIDE GAR • CDLI name normalized in PCSL: sign capitalized • Has a fragmentary or missing portion	1986
	PCSL:  1(N57).AB2  CDLI:  1(N57).AB2  UCS:  PROTO-CUNEIFORM SIGN ONE-N57 BESIDE AB2	1987

	PCSL:  1(N57).ŠAH₂~a  CDLI:  1(N57).SZAH₂~a  UCS: 𐎠  PROTOKUNEFIR SIGN ONE-N57 BESIDE SHAH₂-A	1988
	PCSL:  1(N57).ŠUBUR  CDLI:  1(N57).SZUBUR  UCS: 𐎡  PROTOKUNEFIR SIGN ONE-N57 BESIDE SHUBUR	1989
	PCSL:  1(N57).ŠUBUR~v1  CDLI:  1(N57).SZUBUR  UCS: 𐎢  PROTOKUNEFIR SIGN ONE-N57 BESIDE SHUBUR VARIANT 1 • Variant of 𐎡  1(N57).ŠUBUR  • Has a compound-only sign: 𐎢  ŠUBUR~v1	1990
	PCSL:  1(N57)×SIG  CDLI:  SIGx1(N57)  UCS: 𐎣  PROTOKUNEFIR SIGN ONE-N57 TIMES SIG • CDLI name normalized in PCSL: compound elements reordered	1991
	PCSL:  2(N57).AB₂  CDLI:  2(N57).AB2  UCS: 𐎤  PROTOKUNEFIR SIGN TWO-N57 BESIDE AB₂	1992
	PCSL:  2(N57).KU₆~a  CDLI:  2(N57).KU6~a  UCS: 𐎥  PROTOKUNEFIR SIGN TWO-N57 BESIDE KU6-A	1993
	PCSL:  2(N57).SU~a  CDLI:  2(N57).SU~a  UCS: 𐎦  PROTOKUNEFIR SIGN TWO-N57 BESIDE SU-A	1994
	PCSL:  2(N57).ŠUBUR  CDLI:  2(N57).SZUBUR  UCS: 𐎧  PROTOKUNEFIR SIGN TWO-N57 BESIDE SHUBUR	1995
	PCSL:  3(N57).AMAR  CDLI:  3(N57).AMAR  UCS: 𐎩  PROTOKUNEFIR SIGN THREE-N57 BESIDE AMAR	1996
	PCSL:  3(N57).BARA₃  CDLI:  3(N57).BARA3  UCS: ܵ  PROTOKUNEFIR SIGN THREE-N57 BESIDE BARA₃	1997

	PCSL:  3(N57).E2~b  CDLI:  3(N57).E2~b  UCS: 𒃩 PROTO-CUNEIFORM SIGN THREE-N57 BESIDE E2-B	1998
	PCSL:  3(N57).GAR  CDLI:  3(N57).GAR  UCS: 𒃪 PROTO-CUNEIFORM SIGN THREE-N57 BESIDE GAR	1999
	PCSL:  3(N57).NUNUZ~a1  CDLI:  3(N57).NUNUZ~a1  UCS: 𒃫 PROTO-CUNEIFORM SIGN THREE-N57 BESIDE NUNUZ-A1	2000
	PCSL:  3(N57).NUNUZ~c  CDLI:  3(N57).NUNUZ~c  UCS: 𒃬 PROTO-CUNEIFORM SIGN THREE-N57 BESIDE NUNUZ-C	2001
	PCSL:  3(N57).PIRIG~b1  CDLI:  3(N57).PIRIG~b1  UCS: 𒃭 PROTO-CUNEIFORM SIGN THREE-N57 BESIDE PIRIG-B1	2002
	PCSL:  3(N57).ŠUBUR  CDLI:  3(N57).SZUBUR  UCS: 𒃮 PROTO-CUNEIFORM SIGN THREE-N57 BESIDE SHUBUR	2003
	PCSL:  4(N57).AMAR  CDLI:  4(N57).AMAR  UCS: 𒃯 PROTO-CUNEIFORM SIGN FOUR-N57 BESIDE AMAR	2004
	PCSL:  4(N57).GAR  CDLI:  4(N57).GAR  UCS: 𒃯 PROTO-CUNEIFORM SIGN FOUR-N57 BESIDE GAR	2005
	PCSL:  4(N57).KU3~a  CDLI:  4(N57).KU3~a  UCS: 𒃯 PROTO-CUNEIFORM SIGN FOUR-N57 BESIDE KU3-A	2006
	PCSL:  4(N57).NI~b  CDLI:  4(N57).NI~b  UCS: 𒃯 PROTO-CUNEIFORM SIGN FOUR-N57 BESIDE NI-B	2007
	PCSL:  5(N57).GAR  CDLI:  5(N57).GAR  UCS: 𒃯 PROTO-CUNEIFORM SIGN FIVE-N57 BESIDE GAR	2008



PCSL: |5(N57).KU<sub>3</sub>~a|  
 CDLI: |5(N57).KU3~a|  
 UCS: 𒂗 PROTO-CUNEIFORM SIGN FIVE-N57 BESIDE KU3-A



PCSL: |6(N57).GAR|  
 CDLI: |6(N57).GAR|  
 UCS: 𒂘 PROTO-CUNEIFORM SIGN SIX-N57 BESIDE GAR



PCSL: |6(N57).KU<sub>3</sub>~a|  
 CDLI: |6(N57).KU3~a|  
 UCS: 𒂘 PROTO-CUNEIFORM SIGN SIX-N57 BESIDE KU3-A



PCSL: |8(N57).NI~b|  
 CDLI: |8(N57).NI~b|  
 UCS: 𒂚 PROTO-CUNEIFORM SIGN EIGHT-N57 BESIDE NI-B



PCSL: |1(N58).BAD|  
 CDLI: |1(N58).BAD~a|  
 UCS: 𒄑 PROTO-CUNEIFORM SIGN ONE-N58 BESIDE BAD



PCSL: |1(N58)~a.BAD|  
 CDLI: |1(N58).BAD~b|  
 UCS: 𒄑 PROTO-CUNEIFORM SIGN ONE-N58 FORM A BESIDE BAD  
 • Has a compound-only sign: 𒄑 1(N58)~a



PCSL: |1(N58)~a.BAD~a|  
 CDLI: |1(N58).BAD~b|  
 UCS: 𒄑 PROTO-CUNEIFORM SIGN ONE-N58 FORM A BESIDE BAD-A  
 • Variant of 𒄑 |1(N58)~a.BAD|  
 • Has 2 compound-only signs: 𒄑 1(N58)~a, 𒀭 BAD~a



PCSL: |3(N58).UR<sub>3</sub>~b1|  
 CDLI: |3(N58).UR3~b1|  
 UCS: 𒂔 PROTO-CUNEIFORM SIGN THREE-N58 BESIDE UR3-B1



PCSL: 2(LAGAB~a)  
 CDLI: 2(LAGAB~a)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 4(LAGAB~a)  
 CDLI: 4(LAGAB~a)  
 Unicode status: numerical sign, not proposed due to semantic scope

○○	PCSL: 6 (LAGAB~a) CDLI: 6 (LAGAB~a) Unicode status: numerical sign, not proposed due to semantic scope	2019
□	PCSL: 1 (N01) CDLI: 1 (N01) Unicode status: numerical sign, not proposed due to semantic scope	2020
▢	PCSL: 2 (N01) CDLI: 2 (N01) Unicode status: numerical sign, not proposed due to semantic scope	2021
▢▢	PCSL: 3 (N01) CDLI: 3 (N01) Unicode status: numerical sign, not proposed due to semantic scope	2022
▢▢▢	PCSL: 4 (N01) CDLI: 4 (N01) Unicode status: numerical sign, not proposed due to semantic scope	2023
▢▢▢▢	PCSL: 5 (N01) CDLI: 5 (N01) Unicode status: numerical sign, not proposed due to semantic scope	2024
▢▢▢▢▢	PCSL: 6 (N01) CDLI: 6 (N01) Unicode status: numerical sign, not proposed due to semantic scope	2025
▢▢▢▢▢▢	PCSL: 7 (N01) CDLI: 7 (N01) Unicode status: numerical sign, not proposed due to semantic scope	2026
▢▢▢▢▢▢▢	PCSL: 8 (N01) CDLI: 8 (N01) Unicode status: numerical sign, not proposed due to semantic scope	2027
▢▢▢▢▢▢▢▢	PCSL: 9 (N01) CDLI: 9 (N01) Unicode status: numerical sign, not proposed due to semantic scope	2028



PCSL: 9(N01)~v1  
CDLI: 9(N01)  
Unicode status: numerical sign, not proposed due to semantic scope  
• Variant of 9(N01)



PCSL: 10(N01)  
CDLI: 10(N01)  
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N01@f)  
CDLI: 1(N01@f)  
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 2(N01@f)  
CDLI: 2(N01@f)  
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 3(N01@f)  
CDLI: 3(N01@f)  
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 4(N01@f)  
CDLI: 4(N01@f)  
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 5(N01@f)  
CDLI: 5(N01@f)  
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 6(N01@f)  
CDLI: 6(N01@f)  
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 7(N01@f)  
CDLI: 7(N01@f)  
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 8(N01@f)  
CDLI: 8(N01@f)  
Unicode status: numerical sign, not proposed due to semantic scope

	PCSL: 9(N01@f) CDLI: 9(N01@f)	2039
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 1(N01@r) CDLI:  1(N01@r)	2040
	Unicode status: numerical sign, not proposed due to semantic scope • CDLI name normalized in PCSL: compound delimiter removed	
	PCSL: 1(N02) CDLI: 1(N02)	2041
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 2(N02) CDLI: 2(N02)	2042
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 3(N02) CDLI: 3(N02)	2043
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 4(N02) CDLI: 4(N02)	2044
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 5(N02) CDLI: 5(N02)	2045
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 6(N02) CDLI: 6(N02)	2046
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 7(N02) CDLI: 7(N02)	2047
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 8(N02) CDLI: 8(N02)	2048
	Unicode status: numerical sign, not proposed due to semantic scope	



PCSL: 9(N02) 2049

CDLI: 9(N02)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N03) 2050

CDLI: 1(N03)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 2(N03) 2051

CDLI: 2(N03)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 3(N03) 2052

CDLI: 3(N03)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 4(N03) 2053

CDLI: 4(N03)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 5(N03) 2054

CDLI: 5(N03)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N04) 2055

CDLI: 1(N04)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 2(N04) 2056

CDLI: 2(N04)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 3(N04) 2057

CDLI: 3(N04)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 4(N04) 2058

CDLI: 4(N04)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 5(N04) 2059

CDLI: 5(N04)

Unicode status: numerical sign, not proposed due to semantic scope

	PCSL: 1(N04@f) CDLI: 1(N04@f)	2060
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N04@f) CDLI: 2(N04@f)	2061
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N04@f) CDLI: 3(N04@f)	2062
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N04@f) CDLI: 4(N04@f)	2063
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 5(N04@f) CDLI: 5(N04@f)	2064
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N05) CDLI: 1(N05)	2065
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N05) CDLI: 2(N05)	2066
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N05) CDLI: 3(N05)	2067
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N05) CDLI: 4(N05)	2068
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 5(N05) CDLI: 5(N05)	2069
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N06) CDLI: 1(N06)	2070
Unicode status: numerical sign, not proposed due to semantic scope		

	PCSL: 1(N07~a) CDLI: 1(N07~a)	2071
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N07~b) CDLI: 2(N07~b)	2072
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N07~b) CDLI: 3(N07~b)	2073
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N07~b) CDLI: 1(N07~b)	2074
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N07~b) CDLI: 2(N07~b)	2075
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N07~b) CDLI: 3(N07~b)	2076
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N08) CDLI: 1(N08)	2077
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N08) CDLI: 2(N08)	2078
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N08) CDLI: 3(N08)	2079
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N08) CDLI: 4(N08)	2080
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 5(N08) CDLI: 5(N08)	2081
Unicode status: numerical sign, not proposed due to semantic scope		

	PCSL: 6(N08) CDLI: 6(N08)	2082
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 7(N08) CDLI: 7(N08)	2083
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 8(N08) CDLI: 8(N08)	2084
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 9(N08) CDLI: 9(N08)	2085
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N08~b) CDLI: 1(N08~b)	2086
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N08~b) CDLI: 2(N08~b)	2087
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N08~b) CDLI: 3(N08~b)	2088
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N08~b) CDLI: 4(N08~b)	2089
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N08~c) CDLI: 4(N08~c)	2090
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N08@f) CDLI: 1(N08@f)	2091
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL:  1(N08@f)×1(N57)  CDLI:  1(N08@f)×1(N57)	2092
Unicode status: numerical sign, not proposed due to semantic scope		

	PCSL: 1(N09) CDLI: 1(N09)	2093
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N11) CDLI: 1(N11)	2094
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N12) CDLI: 1(N12)	2095
Unicode status: numerical sign, not proposed due to semantic scope		
●	PCSL: 1(N14) CDLI: 1(N14)	2096
Unicode status: numerical sign, not proposed due to semantic scope		
●	PCSL: 2(N14) CDLI: 2(N14)	2097
Unicode status: numerical sign, not proposed due to semantic scope		
●	PCSL: 3(N14) CDLI: 3(N14)	2098
Unicode status: numerical sign, not proposed due to semantic scope		
●	PCSL: 4(N14) CDLI: 4(N14)	2099
Unicode status: numerical sign, not proposed due to semantic scope		
●	PCSL: 5(N14) CDLI: 5(N14)	2100
Unicode status: numerical sign, not proposed due to semantic scope		
●	PCSL: 5(N14)~v1 CDLI: 5(N14)	2101
Unicode status: numerical sign, not proposed due to semantic scope		
• Variant of		
●	PCSL: 6(N14) CDLI: 6(N14)	2102
Unicode status: numerical sign, not proposed due to semantic scope		
●	PCSL: 6(N14)~v1 CDLI: 6(N14)	2103
Unicode status: numerical sign, not proposed due to semantic scope		
• Variant of		

	PCSL: 7(N14) CDLI: 7(N14)	2104 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 8(N14) CDLI: 8(N14)	2105 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 9(N14) CDLI: 9(N14)	2106 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 10(N14) CDLI: 10(N14)	2107 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 12(N14) CDLI: 12(N14)	2108 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 1(N14@f) CDLI: 1(N14@f)	2109 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 2(N14@f) CDLI: 2(N14@f)	2110 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 3(N14@f) CDLI: 3(N14@f)	2111 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 4(N14@f) CDLI: 4(N14@f)	2112 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 5(N14@f) CDLI: 5(N14@f)	2113 Unicode status: numerical sign, not proposed due to semantic scope

	PCSL: 6(N14@f) CDLI: 6(N14@f)	2114
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 7(N14@f) CDLI: 7(N14@f)	2115
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 8(N14@f) CDLI: 8(N14@f)	2116
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 9(N14@f) CDLI: 9(N14@f)	2117
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 10(N14@f) CDLI: 10(N14@f)	2118
Unicode status: numerical sign, not proposed due to semantic scope		
●	PCSL: 1(N15) CDLI: 1(N15)	2119
Unicode status: numerical sign, not proposed due to semantic scope		
●	PCSL: 2(N15) CDLI: 2(N15)	2120
Unicode status: numerical sign, not proposed due to semantic scope		
●	PCSL: 3(N15) CDLI: 3(N15)	2121
Unicode status: numerical sign, not proposed due to semantic scope		
●	PCSL: 4(N15) CDLI: 4(N15)	2122
Unicode status: numerical sign, not proposed due to semantic scope		
●	PCSL: 5(N15) CDLI: 5(N15)	2123
Unicode status: numerical sign, not proposed due to semantic scope		
●	PCSL: 1(N16) CDLI: 1(N16)	2124
Unicode status: numerical sign, not proposed due to semantic scope		

	PCSL: 1(N17) CDLI: 1(N17)	2125 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 1(N18) CDLI: 1(N18)	2126 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 2(N18) CDLI: 2(N18)	2127 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 3(N18) CDLI: 3(N18)	2128 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 4(N18) CDLI: 4(N18)	2129 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 5(N18) CDLI: 5(N18)	2130 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 6(N18) CDLI: 6(N18)	2131 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 7(N18) CDLI: 7(N18)	2132 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 8(N18) CDLI: 8(N18)	2133 Unicode status: numerical sign, not proposed due to semantic scope
	PCSL: 9(N18) CDLI: 9(N18)	2134 Unicode status: numerical sign, not proposed due to semantic scope

	PCSL: 9(N18)~v1 CDLI: 9(N18) Unicode status: numerical sign, not proposed due to semantic scope • Variant of  9(N18)	2135
	PCSL: 1(N19) CDLI: 1(N19) Unicode status: numerical sign, not proposed due to semantic scope	2136
	PCSL: 2(N19) CDLI: 2(N19) Unicode status: numerical sign, not proposed due to semantic scope	2137
	PCSL: 3(N19) CDLI: 3(N19) Unicode status: numerical sign, not proposed due to semantic scope	2138
	PCSL: 4(N19) CDLI: 4(N19) Unicode status: numerical sign, not proposed due to semantic scope	2139
	PCSL: 5(N19) CDLI: 5(N19) Unicode status: numerical sign, not proposed due to semantic scope	2140
	PCSL: 6(N19) CDLI: 6(N19) Unicode status: numerical sign, not proposed due to semantic scope	2141
	PCSL: 7(N19) CDLI: 7(N19) Unicode status: numerical sign, not proposed due to semantic scope	2142
	PCSL: 8(N19) CDLI: 8(N19) Unicode status: numerical sign, not proposed due to semantic scope	2143
	PCSL: 9(N19) CDLI: 9(N19) Unicode status: numerical sign, not proposed due to semantic scope	2144

	PCSL: 9(N19)~v1 CDLI: 9(N19) Unicode status: numerical sign, not proposed due to semantic scope • Variant of  9(N19)	2145
	PCSL: 1(N19@f) CDLI: 1(N19@f) Unicode status: numerical sign, not proposed due to semantic scope	2146
	PCSL: 2(N19@f) CDLI: 2(N19@f) Unicode status: numerical sign, not proposed due to semantic scope	2147
	PCSL: 3(N19@f) CDLI: 3(N19@f) Unicode status: numerical sign, not proposed due to semantic scope	2148
	PCSL: 4(N19@f) CDLI: 4(N19@f) Unicode status: numerical sign, not proposed due to semantic scope	2149
	PCSL: 5(N19@f) CDLI: 5(N19@f) Unicode status: numerical sign, not proposed due to semantic scope	2150
	PCSL: 6(N19@f) CDLI: 6(N19@f) Unicode status: numerical sign, not proposed due to semantic scope	2151
	PCSL: 7(N19@f) CDLI: 7(N19@f) Unicode status: numerical sign, not proposed due to semantic scope	2152
	PCSL: 8(N19@f) CDLI: 8(N19@f) Unicode status: numerical sign, not proposed due to semantic scope	2153
	PCSL: 9(N19@f) CDLI: 9(N19@f) Unicode status: numerical sign, not proposed due to semantic scope	2154

	PCSL: 1(N20) CDLI: 1(N20)	2155
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N20) CDLI: 2(N20)	2156
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N20) CDLI: 3(N20)	2157
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N20) CDLI: 4(N20)	2158
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 5(N20) CDLI: 5(N20)	2159
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 6(N20) CDLI: 6(N20)	2160
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 7(N20) CDLI: 7(N20)	2161
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 8(N20) CDLI: 8(N20)	2162
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 9(N20) CDLI: 9(N20)	2163
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N21) CDLI: 2(N21)	2164
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N21) CDLI: 3(N21)	2165
Unicode status: numerical sign, not proposed due to semantic scope		

	PCSL: 4(N21) CDLI: 4(N21)	2166
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 5(N21) CDLI: 5(N21)	2167
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 6(N21) CDLI: 6(N21)	2168
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N22) CDLI: 1(N22)	2169
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N22) CDLI: 2(N22)	2170
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N22@f) CDLI: 1(N22@f)	2171
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N22@f) CDLI: 2(N22@f)	2172
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N23) CDLI: 1(N23)	2173
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N23) CDLI: 2(N23)	2174
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N23) CDLI: 3(N23)	2175
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 5(N23) CDLI: 5(N23)	2176
Unicode status: numerical sign, not proposed due to semantic scope		

	PCSL: 7(N23) CDLI: 7(N23)	2177
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N24) CDLI: 1(N24)	2178
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N24) CDLI: 2(N24)	2179
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N24) CDLI: 4(N24)	2180
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 6(N24) CDLI: 6(N24)	2181
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N24~a) CDLI: 1(N24~a)	2182
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N24~b) CDLI: 1(N24~b)	2183
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N24@f) CDLI: 1(N24@f)	2184
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N25) CDLI: 1(N25)	2185
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N26) CDLI: 1(N26)	2186
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N26)~v1 CDLI: 1(N26)	2187
Unicode status: numerical sign, not proposed due to semantic scope • Variant of 2186		

	PCSL: 1(N26~b) CDLI: 1(N26~b) Unicode status: numerical sign, not proposed due to semantic scope	2188
	PCSL: 1(N27) CDLI: 1(N27) Unicode status: numerical sign, not proposed due to semantic scope	2189
	PCSL: 1(N27)~v1 CDLI: 1(N27) Unicode status: numerical sign, not proposed due to semantic scope • Variant of  1(N27)	2190
	PCSL: 1(N28) CDLI: 1(N28) Unicode status: numerical sign, not proposed due to semantic scope	2191
	PCSL: 1(N28~b) CDLI: 1(N28~b) Unicode status: numerical sign, not proposed due to semantic scope	2192
	PCSL: 1(N28~c) CDLI: 1(N28~c) Unicode status: numerical sign, not proposed due to semantic scope	2193
	PCSL: 1(N29~a) CDLI: 1(N29~a) Unicode status: numerical sign, not proposed due to semantic scope	2194
	PCSL: 1(N29~a)~v1 CDLI: 1(N29~a) Unicode status: numerical sign, not proposed due to semantic scope • Variant of  1(N29~a)	2195
	PCSL: 2(N29~a) CDLI: 2(N29~a) Unicode status: numerical sign, not proposed due to semantic scope	2196
	PCSL: 1(N29~b) CDLI: 1(N29~b) Unicode status: numerical sign, not proposed due to semantic scope	2197
	PCSL: 1(N29A~b) CDLI: 1(N29A~b) Unicode status: numerical sign, not proposed due to semantic scope	2198

	PCSL: 2(N29A~b) CDLI: 2(N29A~b)	2199
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 1(N29A~c) CDLI: 1(N29A~c)	2200
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 1(N30~a) CDLI: 1(N30~a)	2201
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 1(N30~a)~v1 CDLI: 1(N30~a)	2202
	Unicode status: numerical sign, not proposed due to semantic scope • Variant of  1(N30~a)	
	PCSL: 1(N30~c) CDLI: 1(N30~c)	2203
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 1(N30~d) CDLI: 1(N30~d)	2204
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 1(N30~e) CDLI: 1(N30~e)	2205
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 1(N30A~c) CDLI: 1(N30A~c)	2206
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 1(N30C~b) CDLI: 1(N30C~b)	2207
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 1(N30C~c) CDLI: 1(N30C~c)	2208
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 1(N31) CDLI: 1(N31)	2209
	Unicode status: numerical sign, not proposed due to semantic scope	



PCSL: 1(N32) 2210  
 CDLI: 1(N32)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N33) 2211  
 CDLI: 1(N33)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N34) 2212  
 CDLI: 1(N34)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: |1(N34)x1(N58)| 2213  
 CDLI: |1(N34)x1(N58)|  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 2(N34) 2214  
 CDLI: 2(N34)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 3(N34) 2215  
 CDLI: 3(N34)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 4(N34) 2216  
 CDLI: 4(N34)  
 Unicode status: numerical sign, not proposed due to semantic scope



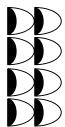
PCSL: 5(N34) 2217  
 CDLI: 5(N34)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 6(N34) 2218  
 CDLI: 6(N34)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 7(N34) 2219  
 CDLI: 7(N34)  
 Unicode status: numerical sign, not proposed due to semantic scope

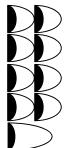


PCSL: 8(N34)

2220

CDLI: 8(N34)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 9(N34)

2221

CDLI: 9(N34)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N34@f)

2222

CDLI: 1(N34@f)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 2(N34@f)

2223

CDLI: 2(N34@f)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 3(N34@f)

2224

CDLI: 3(N34@f)

Unicode status: numerical sign, not proposed due to semantic scope

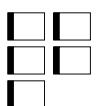


PCSL: 4(N34@f)

2225

CDLI: 4(N34@f)

Unicode status: numerical sign, not proposed due to semantic scope

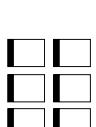


PCSL: 5(N34@f)

2226

CDLI: 5(N34@f)

Unicode status: numerical sign, not proposed due to semantic scope

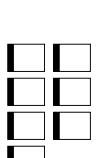


PCSL: 6(N34@f)

2227

CDLI: 6(N34@f)

Unicode status: numerical sign, not proposed due to semantic scope

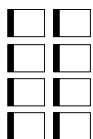


PCSL: 7(N34@f)

2228

CDLI: 7(N34@f)

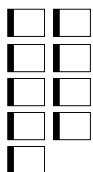
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 8(N34@f) 2229

CDLI: 8(N34@f)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 9(N34@f) 2230

CDLI: 9(N34@f)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N34@f@t) 2231

CDLI: |1(N34F@t)|

Unicode status: numerical sign, not proposed due to semantic scope

- CDLI name normalized in PCSL: modifier notation fixed



PCSL: 1(N35) 2232

CDLI: 1(N35)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 2(N35) 2233

CDLI: 2(N35)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 5(N35) 2234

CDLI: 5(N35)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N36) 2235

CDLI: 1(N36)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 2(N36) 2236

CDLI: 2(N36)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 3(N36) 2237

CDLI: 3(N36)

Unicode status: numerical sign, not proposed due to semantic scope

	PCSL: 4(N36) CDLI: 4(N36)	2238
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 5(N36) CDLI: 5(N36)	2239
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 6(N36) CDLI: 6(N36)	2240
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 7(N36) CDLI: 7(N36)	2241
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 8(N36) CDLI: 8(N36)	2242
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 9(N36) CDLI: 9(N36)	2243
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N36@f) CDLI: 1(N36@f)	2244
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N37) CDLI: 1(N37)	2245
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N37) CDLI: 2(N37)	2246
Unicode status: numerical sign, not proposed due to semantic scope		

	PCSL: 1(N38) CDLI: 1(N38)	2247
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N39~a) CDLI: 1(N39~a)	2248
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N39~a) CDLI: 2(N39~a)	2249
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N39~a) CDLI: 3(N39~a)	2250
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N39~a) CDLI: 4(N39~a)	2251
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N39~b) CDLI: 1(N39~b)	2252
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N39~b) CDLI: 2(N39~b)	2253
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N39~b) CDLI: 3(N39~b)	2254
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N39~b) CDLI: 4(N39~b)	2255
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N40) CDLI: 1(N40)	2256
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N40) CDLI: 2(N40)	2257
Unicode status: numerical sign, not proposed due to semantic scope		

	PCSL: 3(N40) CDLI: 3(N40)	2258
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N40) CDLI: 4(N40)	2259
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N41) CDLI: 1(N41)	2260
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N41) CDLI: 2(N41)	2261
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N41) CDLI: 3(N41)	2262
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N41) CDLI: 4(N41)	2263
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N42~a) CDLI: 1(N42~a)	2264
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N42~a) CDLI: 2(N42~a)	2265
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N42~a) CDLI: 3(N42~a)	2266
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N42~a) CDLI: 4(N42~a)	2267
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N42~b) CDLI: 1(N42~b)	2268
Unicode status: numerical sign, not proposed due to semantic scope		

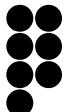
	PCSL: 2(N42~b) CDLI: 2(N42~b)	2269
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N42~b) CDLI: 3(N42~b)	2270
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N42~b) CDLI: 4(N42~b)	2271
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N43) CDLI: 1(N43)	2272
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N43) CDLI: 4(N43)	2273
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N44) CDLI: 1(N44)	2274
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N45) CDLI: 1(N45)	2275
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N45) CDLI: 2(N45)	2276
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N45) CDLI: 3(N45)	2277
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N45) CDLI: 4(N45)	2278
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 5(N45) CDLI: 5(N45)	2279
Unicode status: numerical sign, not proposed due to semantic scope		



PCSL: 6(N45) 2280

CDLI: 6(N45)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 7(N45) 2281

CDLI: 7(N45)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 9(N45) 2282

CDLI: 9(N45)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N45~a) 2283

CDLI: 1(N45~a)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N45@f) 2284

CDLI: 1(N45@f)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 2(N45@f) 2285

CDLI: 2(N45@f)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 3(N45@f) 2286

CDLI: 3(N45@f)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 4(N45@f) 2287

CDLI: 4(N45@f)

Unicode status: numerical sign, not proposed due to semantic scope



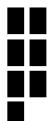
PCSL: 5(N45@f) 2288

CDLI: 5(N45@f)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 6(N45@f) 2289  
 CDLI: 6(N45@f)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 7(N45@f) 2290  
 CDLI: 7(N45@f)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 8(N45@f) 2291  
 CDLI: 8(N45@f)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 9(N45@f) 2292  
 CDLI: 9(N45@f)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N46) 2293  
 CDLI: 1(N46)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 2(N46) 2294  
 CDLI: 2(N46)  
 Unicode status: numerical sign, not proposed due to semantic scope



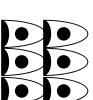
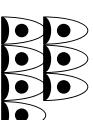
PCSL: 3(N46) 2295  
 CDLI: 3(N46)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N46@f) 2296  
 CDLI: 1(N46@f)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 2(N46@f) 2297  
 CDLI: 2(N46@f)  
 Unicode status: numerical sign, not proposed due to semantic scope

	PCSL: 1(N47) CDLI: 1(N47)	2298
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N47) CDLI: 2(N47)	2299
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N47) CDLI: 3(N47)	2300
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N48) CDLI: 1(N48)	2301
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N48) CDLI: 2(N48)	2302
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N48) CDLI: 3(N48)	2303
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N48) CDLI: 4(N48)	2304
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 5(N48) CDLI: 5(N48)	2305
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 6(N48) CDLI: 6(N48)	2306
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 7(N48) CDLI: 7(N48)	2307
Unicode status: numerical sign, not proposed due to semantic scope		

	PCSL: 1(N48@f) CDLI: 1(N48@f)	2308
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N49) CDLI: 1(N49)	2309
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N49) CDLI: 2(N49)	2310
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N49) CDLI: 3(N49)	2311
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N49) CDLI: 4(N49)	2312
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 5(N49) CDLI: 5(N49)	2313
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N50) CDLI: 1(N50)	2314
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N50) CDLI: 2(N50)	2315
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N50) CDLI: 3(N50)	2316
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N50) CDLI: 4(N50)	2317
Unicode status: numerical sign, not proposed due to semantic scope		



PCSL: 5(N50) 2318

CDLI: 5(N50)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N51) 2319

CDLI: 1(N51)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 2(N51) 2320

CDLI: 2(N51)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 3(N51) 2321

CDLI: 3(N51)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 4(N51) 2322

CDLI: 4(N51)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 5(N51) 2323

CDLI: 5(N51)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 6(N51) 2324

CDLI: 6(N51)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 7(N51) 2325

CDLI: 7(N51)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 8(N51) 2326

CDLI: 8(N51)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N51@f) 2327  
 CDLI: 1(N51@f)  
 Unicode status: numerical sign, not proposed due to semantic scope



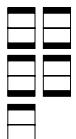
PCSL: 2(N51@f) 2328  
 CDLI: 2(N51@f)  
 Unicode status: numerical sign, not proposed due to semantic scope



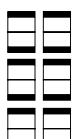
PCSL: 3(N51@f) 2329  
 CDLI: 3(N51@f)  
 Unicode status: numerical sign, not proposed due to semantic scope



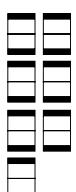
PCSL: 4(N51@f) 2330  
 CDLI: 4(N51@f)  
 Unicode status: numerical sign, not proposed due to semantic scope



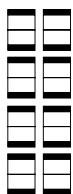
PCSL: 5(N51@f) 2331  
 CDLI: 5(N51@f)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 6(N51@f) 2332  
 CDLI: 6(N51@f)  
 Unicode status: numerical sign, not proposed due to semantic scope

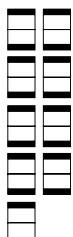


PCSL: 7(N51@f) 2333  
 CDLI: 7(N51@f)  
 Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 8(N51@f) 2334

CDLI: 8(N51@f)  
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 9(N51@f) 2335

CDLI: 9(N51@f)  
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N52) 2336

CDLI: 1(N52)  
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 2(N52) 2337

CDLI: 2(N52)  
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 3(N52) 2338

CDLI: 3(N52)  
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 4(N52) 2339

CDLI: 4(N52)  
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 5(N52) 2340

CDLI: 5(N52)  
Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 3(N53) 2341

CDLI: 3(N53)  
Unicode status: numerical sign, not proposed due to semantic scope

	PCSL: 1(N54) CDLI: 1(N54)	2342
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N54) CDLI: 2(N54)	2343
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 3(N54) CDLI: 3(N54)	2344
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 4(N54) CDLI: 4(N54)	2345
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 5(N54) CDLI: 5(N54)	2346
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N55) CDLI: 1(N55)	2347
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N56) CDLI: 1(N56)	2348
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 2(N56) CDLI: 2(N56)	2349
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N57) CDLI: 1(N57)	2350
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL:  1(N57).1(N57)  CDLI:  1(N57).1(N57)	2351
Unicode status: not proposed due to chronological scope		

=	PCSL: 2(N57) CDLI: 2(N57)	2352
Unicode status: numerical sign, not proposed due to semantic scope		
==	PCSL: 3(N57) CDLI: 3(N57)	2353
Unicode status: numerical sign, not proposed due to semantic scope		
==	PCSL: 4(N57) CDLI: 4(N57)	2354
Unicode status: numerical sign, not proposed due to semantic scope		
==	PCSL: 5(N57) CDLI: 5(N57)	2355
Unicode status: numerical sign, not proposed due to semantic scope		
==	PCSL: 6(N57) CDLI: 6(N57)	2356
Unicode status: numerical sign, not proposed due to semantic scope		
==	PCSL: 6(N57)~v1 CDLI: 6(N57)	2357
Unicode status: numerical sign, not proposed due to semantic scope		
• Variant of == 6(N57)		
==	PCSL: 7(N57) CDLI: 7(N57)	2358
Unicode status: numerical sign, not proposed due to semantic scope		
====	PCSL: 8(N57) CDLI: 8(N57)	2359
Unicode status: numerical sign, not proposed due to semantic scope		
==	PCSL: 9(N57) CDLI: 9(N57)	2360
Unicode status: numerical sign, not proposed due to semantic scope		
=====	PCSL: 10(N57) CDLI: 10(N57)	2361
Unicode status: numerical sign, not proposed due to semantic scope		
	PCSL: 1(N58) CDLI: 1(N58)	2362
Unicode status: numerical sign, not proposed due to semantic scope		

	PCSL: 2(N58) CDLI: 2(N58)	2363
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 3(N58) CDLI: 3(N58)	2364
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 4(N58) CDLI: 4(N58)	2365
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 5(N58) CDLI: 5(N58)	2366
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 8(N58) CDLI: 8(N58)	2367
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 9(N58) CDLI: 9(N58)	2368
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 10(N58) CDLI: 10(N58)	2369
	Unicode status: numerical sign, not proposed due to semantic scope	
	PCSL: 12(N58) CDLI: 12(N58)	2370
	Unicode status: numerical sign, not proposed due to semantic scope	
\	PCSL: 1(N58@t) CDLI:  1(N58@t)	2371
	Unicode status: numerical sign, not proposed due to semantic scope	
	• CDLI name normalized in PCSL: compound delimiter removed	
≡	PCSL: 2(N59) CDLI: 2(N59)	2372
	Unicode status: numerical sign, not proposed due to semantic scope	
≡≡	PCSL: 3(N59) CDLI: 3(N59)	2373
	Unicode status: numerical sign, not proposed due to semantic scope	



PCSL: 4(N59) 2374

CDLI: 4(N59)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N60) 2375

CDLI: 1(N60)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 3(N61) 2376

CDLI: 3(N61)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 4(N62) 2377

CDLI: 4(N62)

Unicode status: numerical sign, not proposed due to semantic scope



PCSL: 1(N63) 2378

CDLI: 1(N63)

Unicode status: numerical sign, not proposed due to semantic scope

## 5 Principles for the Unicode Encoding

### 5.1 Chronological scope

The Proto-Cuneiform encoding in Unicode consists of signs from Uruk IV and III.

### 5.2 Semantic scope

The proposed repertoire contains single and compound ideographic signs, and ideo-numeric complex signs. Single and compound numerical signs have been moved to a separate proposal.

### 5.3 Necessity of an independent encoding

It is important that Proto-Cuneiform (PC) be encoded separately from Sumero-Akkadian Cuneiform (SAC). While there are observable continuities in the script use, it is an essential tenet of Englund's labelling of the PC signs is that the labels are purely formal conventions and do not imply that there is any semantic continuity between, say, the PC sign  $U_2$  and the SAC sign  $U_2$ . This means that signs with names that also occur in SAC should be assigned a separate PC codepoint. It is important to stress again in this context, though, that the naming conventions are about labelling not about identification of PC signs with later SAC interpretations. Scholars working in PC through Early Dynastic studies are going to use both PC and SAC signs even in working in the same texts. The most important case for this is in the curviform numbers which continue from PC into later third millennium SAC and which are not encoded in SAC. Studies of the history of the script and lexicon will also mix PC and SAC signs freely.

### 5.4 Encoding of variants as separate characters

CDLI-gh under-differentiates sign variants in compounds by combining multiple sign-forms under a single sign-name. It is also inconsistent in specifying variants in compounds when there is no corresponding individual form of a component. For example, it lists |AMARxTAR|, where TAR is actually a compound-only sign ( $TAR\sim c$ ), and only has listings for TAR that are independent forms, eg.  $TAR\sim a$  and  $TAR\sim d$ .

While, it is likely that some of the minor sign variants are graphical rather than semantic, there is evidence to support separate encoding of sub-variants. Monaco states in CUSAS 1 p.15 n.105, for example, that "the two sub-variants of ŠEN<sub>b</sub> have been distinguished as ŠEN<sub>b1</sub> (☞) and ŠEN<sub>b2</sub> (☜), since they occur together in the same text, CUSAS 1, 163, clearly denoting two different cereal products."

Another case that is not reflected in CDLI-gh is the two forms of DUG@t — DUG~a2@t (☞) and DUG~c2@t (☜) — only the latter of which is consistently followed by a normally oriented DUG~c sign, suggesting that the contexts and interpretations are distinct. In some cases subvariants are different stacking patterns of a number; in this case, too, they should be assigned separate codepoints as was also done with SAC numbers.

In PCSL, these compound variants have been reviewed and labeled according to their components, and the signs that are in scope of the encoding have been added to the repertoire.

### 5.5 Encoding of damaged signs

CDLI-gh contains a number of signs which are partially damaged. While the full identity of these signs is not certain, it is valuable to assign them codepoints as AP23 does, given that one of the purposes of encoding PC

is to facilitate scholarship on the PC corpus. The damaged signs in administrative texts may never be able to be fully deciphered, but scholarly discussion will reference them in discussions of contexts and possible interpretation.

## 5.6 No encoding for compound-only signs

There are several sign variants that occur only in compounds, as illustrated in L2/23-190. Although encoding such forms as separate characters might be useful for scholarly discourse, it is more practical not to encode compound-only variants of signs as codepoints, following the approach adopted for SAC.

## 5.7 Dedicated characters versus character sequences

It is not necessarily the case that every distinctly listed sign in CDLI-gh should be assigned its own codepoint. In SAC Unicode some signs “A BESIDE B” are assigned codepoints but most are not. In most cases the choice to assign codepoint was made because the sequence is a later reanalysis of an earlier sign; in others the practical value of having a codepoint for a common sign was considered. Since CDLI-gh represents Bob Englund’s considered approach to the PC script it makes practical sense to accept the CDLI-gh entries as signs.

## 5.8 Ordering

Ideo-numeric signs are sorted in ORACC under ‘N’, based upon the number-form. This results in numerical signs occurring in the sort order. Instead, in the proposed repertoire, the ideo-numeric signs are sorted after the ideographic signs under each initial sign.

# 6 Characters Not Proposed for Encoding

## 6.1 Removed due to incorrect identification

The following 2 signs were incorrectly identified:

 |GUG<sub>2</sub>~v1×ŠITA~a1| Incorrect glyph in unpublished Umma text

 |MUŠEN×PAP~a| Incorrect glyph in unpublished Umma text

## 6.2 Removed due to unification

The following 7 signs are considered glyptic variants or duplicates, and have been unified with other characters

\* AN~v1 Unified with \* AN

 |(BU~a&BU~a).NA<sub>2</sub>~b| Unified with  |(BU~a~v1%BU~a~v1).NA<sub>2</sub>~a@n|

 DUG~d Unified with  DUG~c@t

	EZEN~c	Unified with
	NINDA <sub>2</sub> ×GUDU <sub>4</sub>  ~v2	Unified with
	NINDA <sub>2</sub> ×GUDU <sub>4</sub>  ~v3	Unified with
	RI~x	Unified with

### 6.3 Removed due to chronological scope

The following numerical 88 signs have been removed from the Unicode repertoire due to chronological scope.

	A×AN		GA~a~v4~X		IM~a@g
	A@g		GA <sub>2</sub> ~a <sub>1</sub> ×GU <sub>4</sub>		KA <sub>2</sub> ~d
	ALAN~f		GA <sub>2</sub> ~a <sub>1</sub> ×NUN~a		KEŠ <sub>2</sub>
	ANZU <sub>2</sub>		GAN~d		KU~a@t
	ASAL <sub>2</sub>		GAN~d×HI		KUN
	BAU405		GEŠTIN~c		LA~e
	DAG		GEŠTIN~c×X		LAGAB~b×SI
	DIM~a~GU		GEŠTU~a×ŠE~a@t~v1		LAGAB~b×ŠITA~c
	DIM~a~X		GIG		LAGAB~b×X
	DUG~a~HI		GIL		LAGAB~b×1(N01)
	DUG~a~X		GIR <sub>4</sub>		LAK025
	E~e		GIŠ@t.E <sub>2</sub> ~a		LAK050
	ENSI		GIŠ~v		LAK172
	ENSI <sub>2</sub>		HI×ŠE <sub>3</sub> ~v1@t		LAK251
	EZEN~a~LA~e		HUB <sub>2</sub>		LAK777
	EZEN~b~6(N57)		IGI		LAL <sub>3</sub> ~c

	LAM~c		SAGxSAR~a		TUR <sub>3</sub> ~bxtak <sub>4</sub> ~a
	LU <sub>2</sub> @t		SAG~v1xLAM~c		U <sub>4</sub> x1(N01@f)
	MA~v1xX		SIKIL		UKKIN~bxDUG~a
	MA~v1x2(N57)		SILA <sub>3</sub> ~axDUG~b		URI <sub>2</sub>
	MUD <sub>3</sub> ~a@gxGU		SILA <sub>3</sub> ~bxDUG~a		URI <sub>3</sub> ~a+IB~a
	NESAG <sub>2</sub> ~a1		(SUKUD+SUKUD)~c		URU~a1xA
	NINDA <sub>2</sub> x(GIŠ.DAR~a)		ŠITa~c		Uš~bxTAR~d
	NINDA <sub>2</sub> xNE~a~v1		ŠU@s		UšUR <sub>3</sub> ~a
	NINDA <sub>2</sub> xŠIM~a~v2		ŠU <sub>2</sub> ~b.2(N57)		ZADIM
	NINDA <sub>2</sub> x(X.MAŠ)		ŠURUPPAK~c		ZATU737xŠITA~b1@g
	NINDA <sub>2</sub> x1(N06)		TA~f		TA~f
	PA <sub>3</sub>		TAR~d		(ZU&ZU).SAR~a
	RI		TUR~v1xX		1(N57).1(N57)

## 6.4 Removed due to semantic scope

The following 361 numerical signs have been removed from the Unicode repertoire due to semantic scope. These signs will be added to a separate proposal for archaic numbers.

	2(LAGAB~a)		6(N01)		2(N01@f)
	4(LAGAB~a)		7(N01)		3(N01@f)
	6(LAGAB~a)		8(N01)		4(N01@f)
	1(N01)		9(N01)		5(N01@f)
	2(N01)		9(N01)~v1		6(N01@f)
	3(N01)		10(N01)		7(N01@f)
	4(N01)		1(N01@f)		8(N01@f)
	5(N01)				

	9(N01@f)		4(N04@f)		2(N08~b)
	1(N01@r)		5(N04@f)		3(N08~b)
	1(N02)		1(N05)		4(N08~b)
	2(N02)		2(N05)		4(N08~c)
	3(N02)		3(N05)		1(N08@f)
	4(N02)		4(N05)		1(N08@f)×1(N57)
	5(N02)		5(N05)		1(N09)
	6(N02)		1(N06)		1(N11)
	7(N02)		1(N07~a)		1(N12)
	8(N02)		2(N07~a)		1(N14)
	9(N02)		3(N07~a)		2(N14)
	1(N03)		1(N07~b)		3(N14)
	2(N03)		2(N07~b)		4(N14)
	3(N03)		3(N07~b)		5(N14)
	4(N03)		1(N08)		5(N14)~v1
	5(N03)		2(N08)		6(N14)
	1(N04)		3(N08)		6(N14)~v1
	2(N04)		4(N08)		7(N14)
	3(N04)		5(N08)		8(N14)
	4(N04)		6(N08)		9(N14)
	5(N04)		7(N08)		10(N14)
	1(N04@f)		8(N08)		12(N14)
	2(N04@f)		9(N08)		1(N14@f)

▪	2(N14@f)		9(N18)		3(N20)
▪	3(N14@f)		9(N18)~v1		4(N20)
▪	4(N14@f)		1(N19)		5(N20)
▪	5(N14@f)		2(N19)		6(N20)
▪	6(N14@f)		3(N19)		7(N20)
▪	7(N14@f)		4(N19)		8(N20)
▪	8(N14@f)		5(N19)		9(N20)
▪	9(N14@f)		6(N19)		2(N21)
▪▪	10(N14@f)		7(N19)		3(N21)
•	1(N15)		8(N19)		4(N21)
•	2(N15)		9(N19)		5(N21)
••	3(N15)		9(N19)~v1		6(N21)
••	4(N15)		1(N19@f)		1(N22)
••	5(N15)		2(N19@f)		2(N22)
••	1(N16)		3(N19@f)		1(N22@f)
••	1(N17)		4(N19@f)		2(N22@f)
••	1(N18)		5(N19@f)		1(N23)
••	2(N18)		6(N19@f)		2(N23)
••	3(N18)		7(N19@f)		3(N23)
••	4(N18)		8(N19@f)		5(N23)
••	5(N18)		9(N19@f)		7(N23)
••	6(N18)		1(N20)		1(N24)
••	7(N18)		2(N20)		2(N24)
••	8(N18)		3(N20)		4(N24)

	6(N24)		1(N30~e)		5(N34@f)
	1(N24~a)		1(N30A~c)		6(N34@f)
	1(N24~b)		1(N30C~b)		7(N34@f)
	1(N24@f)		1(N30C~c)		8(N34@f)
	1(N25)		1(N31)		9(N34@f)
	1(N26)		1(N32)		1(N34@f@t)
	1(N26)~v1		1(N33)		1(N35)
	1(N26~b)		2(N34)		2(N35)
	1(N27)		3(N34)		5(N35)
	1(N27)~v1		4(N34)		1(N36)
	1(N28)		5(N34)		2(N36)
	1(N28~b)		6(N34)		3(N36)
	1(N28~c)		7(N34)		4(N36)
	1(N29~a)		8(N34)		5(N36)
	1(N29~a)~v1		9(N34)		6(N36)
	2(N29~a)		1(N34@f)		7(N36)
	1(N29~b)		2(N34@f)		8(N36)
	1(N29A~b)		3(N34@f)		9(N36)
	2(N29A~b)		4(N34@f)		1(N37)
	1(N29A~c)		5(N34@f)		2(N37)
	1(N30~a)		6(N34@f)		3(N37)
	1(N30~a)~v1		7(N34@f)		4(N37)
	1(N30~c)		8(N34@f)		5(N37)
	1(N30~d)		9(N34@f)		6(N37)

	1(N36@f)		1(N42~b)		7(N45@f)
	1(N37)		2(N42~b)		8(N45@f)
	2(N37)		3(N42~b)		9(N45@f)
	1(N38)		4(N42~b)		1(N46)
	1(N39~a)		1(N43)		2(N46)
	2(N39~a)		4(N43)		3(N46)
	3(N39~a)		1(N44)		1(N46@f)
	4(N39~a)		2(N45)		2(N46@f)
	1(N39~b)		3(N45)		1(N47)
	2(N39~b)		4(N45)		2(N47)
	3(N39~b)		5(N45)		3(N47)
	4(N39~b)		6(N45)		1(N48)
	1(N40)		7(N45)		2(N48)
	2(N40)		9(N45)		3(N48)
	3(N40)		1(N45~a)		4(N48)
	4(N40)		1(N45@f)		5(N48)
	1(N41)		2(N45@f)		6(N48)
	2(N41)		3(N45@f)		7(N48)
	3(N41)		4(N45@f)		1(N48@f)
	4(N41)		5(N45@f)		1(N49)
	1(N42~a)		6(N45@f)		
	2(N42~a)				
	3(N42~a)				
	4(N42~a)				

	2(N49)		5(N51@f)		2(N56)
	3(N49)		6(N51@f)	—	1(N57)
	4(N49)		7(N51@f)	=	2(N57)
	5(N49)		8(N51@f)	≡	3(N57)
	1(N50)		9(N51@f)	≡	4(N57)
	2(N50)			≡≡	5(N57)
	3(N50)			≡≡≡	6(N57)
	4(N50)			≡≡≡≡	6(N57)~v1
	5(N50)			====	7(N57)
	1(N51)		1(N52)	≡≡≡	8(N57)
	2(N51)		2(N52)	=====	9(N57)
	3(N51)		3(N52)		1(N58)
	4(N51)		4(N52)		2(N58)
	5(N51)		5(N52)		3(N58)
	6(N51)		3(N53)		4(N58)
	7(N51)		1(N54)		5(N58)
	8(N51)		2(N54)		8(N58)
	1(N51@f)		3(N54)		9(N58)
	2(N51@f)		4(N54)		10(N58)
	3(N51@f)		5(N54)	\	12(N58)
	4(N51@f)		1(N55)	■	1(N58@t)
			1(N56)	■■	2(N59)
				■■■	3(N59)

	4(N59)		3(N61)		1(N63)
	1(N60)		4(N62)		

## 6.5 Excluded due to compound-only status

The following 43 compound-only signs are out of scope for the Unicode repertoire.

	AB <sub>2</sub> ~v2		HI~a1		ŠITĀ~b2@g
	ANŠE~d		KA~a~v1		ŠUBUR~v1
	BAD~a		KA~a~v2		TAR~b
	DARA <sub>3</sub> ~d1		KAR <sub>2</sub> ~a1		TAR~c
	DARA <sub>3</sub> ~d2		KAR <sub>2</sub> ~c		TU~c~v1
	DUB@n~a		KUR~e		URU~a3
	DUB@n~b		KUŠU <sub>2</sub> ~a@t		UŠ~b~v2
	DUG~b~v2		NA <sub>2</sub> ~a@n		ZATU737~v3
	DUG~c~v2		NA <sub>2</sub> ~b		ZATU759@t
	EN~d		SILA <sub>3</sub> ~a~v1		ZU
	GAN~c~v2		SILA <sub>3</sub> ~d		N(N01)
	GEŠTU~c		SUHUR~v1		3(N08)~v1
	GUDU <sub>4</sub>		SUHUR~v2		4(N08)~v1
	GURUŠ~c		ŠE~a@t~v1		1(N57@t)
					1(N58)~a

## **7 Proposed Unicode Repertoire**

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

	1266	1267	1268	1269	126A	126B	126C	126D	126E	126F	1270	1271	1272	1273
0														
1														
2														
3														
4														
5														
6														
7														
8														
9														
A														
B														
C														
D														
E														
F														

1274 1275 1276 1277 1278 1279 127A 127B 127C 127D 127E 127F 1280 1281

0 12740														
1 12741														
2 12742														
3 12743														
4 12744														
5 12745														
6 12746														
7 12747														
8 12748														
9 12749														
A 1274A														
B 1274B														
C 1274C														
D 1274D														
E 1274E														
F 1274F														

	1282	1283	1284	1285	1286	1287	1288	1289	128A	128B	128C	128D	128E	128F
0														
1														
2														
3														
4														
5														
6														
7														
8														
9														
A														
B														
C														
D														
E														
F														

1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 129A 129B 129C

0 12900													
1 12901													
2 12902													
3 12903													
4 12904													
5 12905													
6 12906													
7 12907													
8 12908													
9 12909													
A 1290A													
B 1290B													
C 1290C													
D 1290D													
E 1290E													
F 1290F													

	129D	129E	129F	12A0	12A1	12A2	12A3	12A4	12A5	12A6	12A7	12A8	12A9
0													
1													
2													
3													
4													
5													
6													
7													
8													
9													
A													
B													
C													
D													
E													
F													

12AA 12AB 12AC 12AD 12AE 12AF 12B0 12B1 12B2 12B3 12B4 12B5 12B6

0	12AA0	12AB0	12AC0	12AD0	12AE0	12AF0	12B00	12B10	12B20	12B30	12B40	12B50	12B60
1	12AA1	12AB1	12AC1	12AD1	12AE1	12AF1	12B01	12B11	12B21	12B31	12B41	12B51	12B61
2	12AA2	12AB2	12AC2	12AD2	12AE2	12AF2	12B02	12B12	12B22	12B32	12B42	12B52	12B62
3	12AA3	12AB3	12AC3	12AD3	12AE3	12AF3	12B03	12B13	12B23	12B33	12B43	12B53	12B63
4	12AA4	12AB4	12AC4	12AD4	12AE4	12AF4	12B04	12B14	12B24	12B34	12B44	12B54	12B64
5	12AA5	12AB5	12AC5	12AD5	12AE5	12AF5	12B05	12B15	12B25	12B35	12B45	12B55	12B65
6	12AA6	12AB6	12AC6	12AD6	12AE6	12AF6	12B06	12B16	12B26	12B36	12B46	12B56	12B66
7	12AA7	12AB7	12AC7	12AD7	12AE7	12AF7	12B07	12B17	12B27	12B37	12B47	12B57	12B67
8	12AA8	12AB8	12AC8	12AD8	12AE8	12AF8	12B08	12B18	12B28	12B38	12B48	12B58	12B68
9	12AA9	12AB9	12AC9	12AD9	12AE9	12AF9	12B09	12B19	12B29	12B39	12B49	12B59	12B69
A	12AAA	12ABA	12ACA	12ADA	12AEA	12AFA	12B0A	12B1A	12B2A	12B3A	12B4A	12B5A	12B6A
B	12AAB	12ABB	12ACB	12ADB	12AEB	12AFB	12B0B	12B1B	12B2B	12B3B	12B4B	12B5B	12B6B
C	12AAC	12ABC	12ACC	12ADC	12AEC	12AFC	12B0C	12B1C	12B2C	12B3C	12B4C	12B5C	12B6C
D	12AAD	12ABD	12ACD	12ADD	12AED	12AFD	12B0D	12B1D	12B2D	12B3D	12B4D	12B5D	12B6D
E	12AAE	12ABE	12ACE	12ADE	12AEE	12AFE	12B0E	12B1E	12B2E	12B3E	12B4E	12B5E	12B6E
F	12AAF	12ABF	12ACF	12ADF	12AEF	12AFF	12B0F	12B1F	12B2F	12B3F	12B4F	12B5F	12B6F

12B7 12B8 12B9 12BA 12BB 12BC 12BD 12BE 12BF 12C0 12C1 12C2 12C3

0	12B70	12B80	12B90	12BA0	12BB0	12BC0	12BD0	12BE0	12BF0	12C00	12C10	12C20	12C30
1	12B71	12B81	12B91	12BA1	12BB1	12BC1	12BD1	12BE1	12BF1	12C01	12C11	12C21	12C31
2	12B72	12B82	12B92	12BA2	12BB2	12BC2	12BD2	12BE2	12BF2	12C02	12C12	12C22	12C32
3	12B73	12B83	12B93	12BA3	12BB3	12BC3	12BD3	12BE3	12BF3	12C03	12C13	12C23	12C33
4	12B74	12B84	12B94	12BA4	12BB4	12BC4	12BD4	12BE4	12BF4	12C04	12C14	12C24	12C34
5	12B75	12B85	12B95	12BA5	12BB5	12BC5	12BD5	12BE5	12BF5	12C05	12C15	12C25	12C35
6	12B76	12B86	12B96	12BA6	12BB6	12BC6	12BD6	12BE6	12BF6	12C06	12C16	12C26	12C36
7	12B77	12B87	12B97	12BA7	12BB7	12BC7	12BD7	12BE7	12BF7	12C07	12C17	12C27	12C37
8	12B78	12B88	12B98	12BA8	12BB8	12BC8	12BD8	12BE8	12BF8	12C08	12C18	12C28	12C38
9	12B79	12B89	12B99	12BA9	12BB9	12BC9	12BD9	12BE9	12BF9	12C09	12C19	12C29	12C39
A	12B7A	12B8A	12B9A	12BAA	12BBA	12BCA	12BDA	12BEA	12BFA	12C0A	12C1A	12C2A	12C3A
B	12B7B	12B8B	12B9B	12BAB	12BBB	12BCB	12BDB	12BEB	12FBF	12C0B	12C1B	12C2B	12C3B
C	12B7C	12B8C	12B9C	12BAC	12BBC	12BCC	12BDC	12BEC	12BFC	12C0C	12C1C	12C2C	12C3C
D	12B7D	12B8D	12B9D	12BAD	12BBD	12BCD	12BDD	12BED	12BFD	12C0D	12C1D	12C2D	12C3D
E	12B7E	12B8E	12B9E	12BAE	12BBE	12BCE	12BDE	12BEE	12BFE	12C0E	12C1E	12C2E	12C3E
F	12B7F	12B8F	12B9F	12BAF	12BBF	12BCF	12BDF	12BEF	12BFF	12C0F	12C1F	12C2F	12C3F

12C4 12C5 12C6 12C7 12C8 12C9 12CA 12CB 12CC 12CD 12CE 12CF 12D0

0	12C40	12C50	12C60	12C70	12C80	12C90	12CA0	12CB0	12CC0	12CD0	12CE0	12CF0	12D00
1	12C41	12C51	12C61	12C71	12C81	12C91	12CA1	12CB1	12CC1	12CD1	12CE1	12CF1	
2	12C42	12C52	12C62	12C72	12C82	12C92	12CA2	12CB2	12CC2	12CD2	12CE2	12CF2	
3	12C43	12C53	12C63	12C73	12C83	12C93	12CA3	12CB3	12CC3	12CD3	12CE3	12CF3	
4	12C44	12C54	12C64	12C74	12C84	12C94	12CA4	12CB4	12CC4	12CD4	12CE4	12CF4	
5	12C45	12C55	12C65	12C75	12C85	12C95	12CA5	12CB5	12CC5	12CD5	12CE5	12CF5	
6	12C46	12C56	12C66	12C76	12C86	12C96	12CA6	12CB6	12CC6	12CD6	12CE6	12CF6	
7	12C47	12C57	12C67	12C77	12C87	12C97	12CA7	12CB7	12CC7	12CD7	12CE7	12CF7	
8	12C48	12C58	12C68	12C78	12C88	12C98	12CA8	12CB8	12CC8	12CD8	12CE8	12CF8	
9	12C49	12C59	12C69	12C79	12C89	12C99	12CA9	12CB9	12CC9	12CD9	12CE9	12CF9	
A	12C4A	12C5A	12C6A	12C7A	12C8A	12C9A	12CAA	12CBA	12CCA	12CDA	12CEA	12CFA	
B	12C4B	12C5B	12C6B	12C7B	12C8B	12C9B	12CAB	12CBB	12CCB	12CDB	12CEB	12CFB	
C	12C4C	12C5C	12C6C	12C7C	12C8C	12C9C	12CAC	12CBC	12CCC	12CDC	12CEC	12FCF	
D	12C4D	12C5D	12C6D	12C7D	12C8D	12C9D	12CAD	12CBD	12CCD	12CDD	12CED	12CFD	
E	12C4E	12C5E	12C6E	12C7E	12C8E	12C9E	12CAE	12CBE	12CCE	12CDE	12CEE	12CFE	
F	12C4F	12C5F	12C6F	12C7F	12C8F	12C9F	12CAF	12CBF	12CCF	12CDF	12CEF	12CFF	

12580 ॥ PROTO-CUNEIFORM SIGN A  
 12581 ፩ PROTO-CUNEIFORM SIGN A TIMES AB2  
 12582 ፪ PROTO-CUNEIFORM SIGN A TIMES EN-A VARIANT 2  
 12583 ፫ PROTO-CUNEIFORM SIGN A TIMES SHUBUR  
 12584 ፬ PROTO-CUNEIFORM SIGN A TIMES ZATU672  
 12585 ፭ PROTO-CUNEIFORM SIGN A TIMES ONE-N14  
 12586 ፮ PROTO-CUNEIFORM SIGN A TENU  
 12587 ፯ PROTO-CUNEIFORM SIGN A2  
 12588 ፱ PROTO-CUNEIFORM SIGN AB-A  
 12589 ፲ PROTO-CUNEIFORM SIGN AB-A TIMES A TENU  
 1258A ፳ PROTO-CUNEIFORM SIGN AB-A TIMES ASH2  
 1258B ፴ PROTO-CUNEIFORM SIGN AB-A TIMES KU6-A  
 1258C ፵ PROTO-CUNEIFORM SIGN AB-A TIMES SUKKAL  
 1258D ፶ PROTO-CUNEIFORM SIGN AB-A TIMES SHE-A OVER SHE-A  
 1258E ፷ PROTO-CUNEIFORM SIGN AB-A TIMES X  
 1258F ፸ PROTO-CUNEIFORM SIGN AB-A TIMES ZATU659  
 12590 ፹ PROTO-CUNEIFORM SIGN AB-A TIMES ONE-N1  
 12591 ፺ PROTO-CUNEIFORM SIGN AB-A VARIANT 1  
 12592 ፻ PROTO-CUNEIFORM SIGN AB-A GUNU  
 12593 ፼ PROTO-CUNEIFORM SIGN AB-B  
 12594 ፽ PROTO-CUNEIFORM SIGN AB-B TIMES A  
 12595 ፾ PROTO-CUNEIFORM SIGN AB-B TIMES KU6-A  
 12596 ፷ PROTO-CUNEIFORM SIGN AB-B TIMES SHA3-A1  
 12597 ፸ PROTO-CUNEIFORM SIGN AB2  
 12598 ፹ PROTO-CUNEIFORM SIGN AB2 TIMES TWO-N14  
 12599 ፻ PROTO-CUNEIFORM SIGN AB2 VARIANT 1  
 1259A ፻ PROTO-CUNEIFORM SIGN AB2 VARIANT 2 TIMES TWO-N14  
 1259B ፻ PROTO-CUNEIFORM SIGN ABGAL  
 1259C ፻ PROTO-CUNEIFORM SIGN ABGAL VARIANT 1  
 1259D ፻ PROTO-CUNEIFORM SIGN ABRIG  
 1259E ፻ PROTO-CUNEIFORM SIGN ABZU  
 1259F ፻ PROTO-CUNEIFORM SIGN AD-A  
 125A0 ፻ PROTO-CUNEIFORM SIGN AD-B  
 125A1 ፻ PROTO-CUNEIFORM SIGN AD-C  
 125A2 ፻ PROTO-CUNEIFORM SIGN ADAB  
 125A3 ፻ PROTO-CUNEIFORM SIGN ADDA  
 125A4 ፻ PROTO-CUNEIFORM SIGN ADDA TENU  
 125A5 ፻ PROTO-CUNEIFORM SIGN AGAR2  
 125A6 ፻ PROTO-CUNEIFORM SIGN AK-A  
 125A7 ፻ PROTO-CUNEIFORM SIGN AK-B  
 125A8 ፻ PROTO-CUNEIFORM SIGN AL  
 125A9 ፻ PROTO-CUNEIFORM SIGN ALAN-A  
 125AA ፻ PROTO-CUNEIFORM SIGN ALAN-B  
 125AB ፻ PROTO-CUNEIFORM SIGN ALAN-C  
 125AC ፻ PROTO-CUNEIFORM SIGN ALAN-D  
 125AD ፻ PROTO-CUNEIFORM SIGN ALAN-E  
 125AE ፻ PROTO-CUNEIFORM SIGN ALIM  
 125AF ፻ PROTO-CUNEIFORM SIGN AM-A  
 125B0 ፻ PROTO-CUNEIFORM SIGN AM-B  
 125B1 ፻ PROTO-CUNEIFORM SIGN AMA-A  
 125B2 ፻ PROTO-CUNEIFORM SIGN AMA-A TIMES E2-A  
 125B3 ፻ PROTO-CUNEIFORM SIGN AMA-A VARIANT 1  
 125B4 ፻ PROTO-CUNEIFORM SIGN AMA-B  
 125B5 ፻ PROTO-CUNEIFORM SIGN AMAR  
 125B6 ፻ PROTO-CUNEIFORM SIGN AMAR BESIDE ONE-N2  
 125B7 ፻ PROTO-CUNEIFORM SIGN AMAR OVER AMAR  
 125B8 ፻ PROTO-CUNEIFORM SIGN AMAR VARIANT 1  
 125B9 ፻ PROTO-CUNEIFORM SIGN AMAR VARIANT 2  
 125BA ፻ PROTO-CUNEIFORM SIGN AMAR VARIANT 2 TIMES TAR-C  
 125BB ፻ PROTO-CUNEIFORM SIGN AMAR GUNU  
 125BC \* PROTO-CUNEIFORM SIGN AN  
 125BD \* PROTO-CUNEIFORM SIGN AN VARIANT 2  
 125BE ፻ PROTO-CUNEIFORM SIGN ANSHE-A  
 125BF ፻ PROTO-CUNEIFORM SIGN ANSHE-B  
 125C0 ፻ PROTO-CUNEIFORM SIGN ANSHE-C  
 125C1 ፻ PROTO-CUNEIFORM SIGN ANSHE-E  
 125C2 ፻ PROTO-CUNEIFORM SIGN APIN-A  
 125C3 ፻ PROTO-CUNEIFORM SIGN APIN-A BESIDE APIN-A

125C4 ፻ PROTO-CUNEIFORM SIGN APIN-B  
 125C5 ፻ PROTO-CUNEIFORM SIGN APIN-C  
 125C6 ፻ PROTO-CUNEIFORM SIGN ARARMA2-A  
 125C7 ፻ PROTO-CUNEIFORM SIGN ARARMA2-A VARIANT 1  
 125C8 ፻ PROTO-CUNEIFORM SIGN ARARMA2-B  
 125C9 ፻ PROTO-CUNEIFORM SIGN ARATTA  
 125CA ፻ PROTO-CUNEIFORM SIGN ASAR  
 125CB ፻ PROTO-CUNEIFORM SIGN ASH2  
 125CC ፻ PROTO-CUNEIFORM SIGN AZ  
 125CD ፻ PROTO-CUNEIFORM SIGN AZU  
 125CE ፻ PROTO-CUNEIFORM SIGN BA  
 125CF ፻ PROTO-CUNEIFORM SIGN BAD  
 125D0 ፻ PROTO-CUNEIFORM SIGN BAD OVER BAD  
 125D1 ፻ PROTO-CUNEIFORM SIGN BAD3-A  
 125D2 ፻ PROTO-CUNEIFORM SIGN BAD3-B1  
 125D3 ፻ PROTO-CUNEIFORM SIGN BAD3-B2  
 125D4 ፻ PROTO-CUNEIFORM SIGN BAHAR2-A  
 125D5 ፻ PROTO-CUNEIFORM SIGN BAHAR2-A VARIANT 1  
 125D6 ፻ PROTO-CUNEIFORM SIGN BAHAR2-B  
 125D7 ፻ PROTO-CUNEIFORM SIGN BAHAR2-B VARIANT 1  
 125D8 ፻ PROTO-CUNEIFORM SIGN BAHAR2-C  
 125D9 ፻ PROTO-CUNEIFORM SIGN BALA-A  
 125DA ፻ PROTO-CUNEIFORM SIGN BALA-B  
 125DB ፻ PROTO-CUNEIFORM SIGN BALA-B VARIANT 1  
 125DC ፻ PROTO-CUNEIFORM SIGN BALAG  
 125DD ፻ PROTO-CUNEIFORM SIGN BALAG VARIANT 1  
 125DE ፻ PROTO-CUNEIFORM SIGN BAN-A  
 125DF ፻ PROTO-CUNEIFORM SIGN BAN-A VARIANT 1  
 125E0 ፻ PROTO-CUNEIFORM SIGN BAN-A VARIANT 2  
 125E1 ፻ PROTO-CUNEIFORM SIGN BAN-B  
 125E2 ፻ PROTO-CUNEIFORM SIGN BANSHUR-A  
 125E3 ፻ PROTO-CUNEIFORM SIGN BANSHUR-A TENU  
 125E4 ፻ PROTO-CUNEIFORM SIGN BANSHUR-B1  
 125E5 ፻ PROTO-CUNEIFORM SIGN BANSHUR-B2  
 125E6 ፻ PROTO-CUNEIFORM SIGN BANSHUR-C  
 125E7 ፻ PROTO-CUNEIFORM SIGN BAPPIR-A  
 125E8 ፻ PROTO-CUNEIFORM SIGN BAPPIR-B  
 125E9 ፻ PROTO-CUNEIFORM SIGN BAPPIR-C  
 125EA ፻ PROTO-CUNEIFORM SIGN BAPPIR-D  
 125EB ፻ PROTO-CUNEIFORM SIGN BAPPIR-E  
 125EC ፻ PROTO-CUNEIFORM SIGN BAPPIR-F  
 125ED ፻ PROTO-CUNEIFORM SIGN BAR  
 125EE ፻ PROTO-CUNEIFORM SIGN BARA2-A  
 125EF ፻ PROTO-CUNEIFORM SIGN BARA2-A VARIANT 1  
 125F0 ፻ PROTO-CUNEIFORM SIGN BARA2-B  
 125F1 ፻ PROTO-CUNEIFORM SIGN BARA2-B VARIANT 1  
 125F2 ፻ PROTO-CUNEIFORM SIGN BARA3  
 125F3 ፻ PROTO-CUNEIFORM SIGN BIR-A  
 125F4 ፻ PROTO-CUNEIFORM SIGN BIR-B  
 125F5 ፻ PROTO-CUNEIFORM SIGN BIR-C  
 125F6 ፻ PROTO-CUNEIFORM SIGN BIR3-A  
 125F7 ፻ PROTO-CUNEIFORM SIGN BIR3-A VARIANT 1  
 125F8 ፻ PROTO-CUNEIFORM SIGN BIR3-B  
 125F9 ፻ PROTO-CUNEIFORM SIGN BIR3-B VARIANT 1  
 125FA ፻ PROTO-CUNEIFORM SIGN BIR3-C  
 125FB ፻ PROTO-CUNEIFORM SIGN BU-A  
 125FC ፻ PROTO-CUNEIFORM SIGN BU-A JOINING DU6-A  
 125FD ፻ PROTO-CUNEIFORM SIGN BU-A JOINING DU6-A VARIANT 1  
 125FE ፻ PROTO-CUNEIFORM SIGN BU-A TIMES GISH TENU  
 125FF ፻ PROTO-CUNEIFORM SIGN BU-A TIMES ONE-N58  
 12600 ፻ PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-A  
 12601 ፻ PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE NA2-A VARIANT 1  
 12602 ፻ PROTO-CUNEIFORM SIGN BU-A OVER BU-A BESIDE X  
 12603 ፻ PROTO-CUNEIFORM SIGN BU-A VARIANT 1  
 12604 ፻ PROTO-CUNEIFORM SIGN BU-A VARIANT 1 TIMES A  
 12605 ፻ PROTO-CUNEIFORM SIGN BU-A VARIANT 1 CROSSING BU-A VARIANT 1 BESIDE NA2-A NUTILLU  
 12606 ፻ PROTO-CUNEIFORM SIGN BU-B

12607	↳ PROTO-CUNEIFORM SIGN BU-B BESIDE NA2-A VARIANT 1
12608	↳ PROTO-CUNEIFORM SIGN BU3
12609	↳ PROTO-CUNEIFORM SIGN BULUG
1260A	↳ PROTO-CUNEIFORM SIGN BULUG3
1260B	↳ PROTO-CUNEIFORM SIGN BUR-A
1260C	↳ PROTO-CUNEIFORM SIGN BUR-B
1260D	↳ PROTO-CUNEIFORM SIGN BUR-C
1260E	↳ PROTO-CUNEIFORM SIGN BUR-D
1260F	→ PROTO-CUNEIFORM SIGN BUR2
12610	☞ PROTO-CUNEIFORM SIGN DA-A
12611	☞ PROTO-CUNEIFORM SIGN DA-A BESIDE LISH
12612	☞ PROTO-CUNEIFORM SIGN DA-B
12613	☞ PROTO-CUNEIFORM SIGN DA-C
12614	☞ PROTO-CUNEIFORM SIGN DA-D
12615	☞ PROTO-CUNEIFORM SIGN DAH
12616	☞ PROTO-CUNEIFORM SIGN DAM
12617	☞ PROTO-CUNEIFORM SIGN DANNA
12618	☞ PROTO-CUNEIFORM SIGN DAR-A
12619	☞ PROTO-CUNEIFORM SIGN DAR-A TIMES A
1261A	☞ PROTO-CUNEIFORM SIGN DAR-B
1261B	☞ PROTO-CUNEIFORM SIGN DAR-C
1261C	☞ PROTO-CUNEIFORM SIGN DAR-D
1261D	☞ PROTO-CUNEIFORM SIGN DARA3-A
1261E	☞ PROTO-CUNEIFORM SIGN DARA3-B
1261F	☞ PROTO-CUNEIFORM SIGN DARA3-C
12620	☞ PROTO-CUNEIFORM SIGN DARA3-C TIMES KAR2-B
12621	☞ PROTO-CUNEIFORM SIGN DARA3-C TIMES KAR2-C PLUS SHE-A
12622	☞ PROTO-CUNEIFORM SIGN DARA3-C VARIANT 1
12623	☞ PROTO-CUNEIFORM SIGN DARA3-D
12624	☞ PROTO-CUNEIFORM SIGN DARA3-D TIMES KAR2-B
12625	☞ PROTO-CUNEIFORM SIGN DARA3-D1 TIMES KAR2-B
12626	☞ PROTO-CUNEIFORM SIGN DARA3-D2 TIMES KAR2-A1
12627	☞ PROTO-CUNEIFORM SIGN DARA3-D2 TIMES KAR2-A1 PLUS SHE-A
12628	☞ PROTO-CUNEIFORM SIGN DARA4-A1
12629	☞ PROTO-CUNEIFORM SIGN DARA4-A2
1262A	☞ PROTO-CUNEIFORM SIGN DARA4-A3
1262B	☞ PROTO-CUNEIFORM SIGN DARA4-B
1262C	☞ PROTO-CUNEIFORM SIGN DARA4-C1
1262D	☞ PROTO-CUNEIFORM SIGN DARA4-C2
1262E	☞ PROTO-CUNEIFORM SIGN DARA4-C3
1262F	☞ PROTO-CUNEIFORM SIGN DARA4-C4
12630	☞ PROTO-CUNEIFORM SIGN DARA4-C5
12631	☞ PROTO-CUNEIFORM SIGN DI
12632	☞ PROTO-CUNEIFORM SIGN DI TENU
12633	☞ PROTO-CUNEIFORM SIGN DIB
12634	☞ PROTO-CUNEIFORM SIGN DIB VARIANT 1
12635	☞ PROTO-CUNEIFORM SIGN DILMUN
12636	☞ PROTO-CUNEIFORM SIGN DILMUN VARIANT 1
12637	☞ PROTO-CUNEIFORM SIGN DILMUN VARIANT 2
12638	☞ PROTO-CUNEIFORM SIGN DIM-A
12639	☞ PROTO-CUNEIFORM SIGN DIM-B
1263A	☞ PROTO-CUNEIFORM SIGN DIM-C
1263B	▷ PROTO-CUNEIFORM SIGN DIN
1263C	▽ PROTO-CUNEIFORM SIGN DIN TENU
1263D	▷ PROTO-CUNEIFORM SIGN DU
1263E	▷ PROTO-CUNEIFORM SIGN DU TIMES ONE-N58 TENU
1263F	▷ PROTO-CUNEIFORM SIGN DU GUNU
12640	☞ PROTO-CUNEIFORM SIGN DU6-A
12641	☞ PROTO-CUNEIFORM SIGN DU6-A VARIANT 1
12642	☞ PROTO-CUNEIFORM SIGN DU6-A VARIANT 1 TIMES ONE-N58
12643	☞ PROTO-CUNEIFORM SIGN DU6-B
12644	☞ PROTO-CUNEIFORM SIGN DU6-C
12645	☞ PROTO-CUNEIFORM SIGN DU7
12646	☞ PROTO-CUNEIFORM SIGN DU8-A
12647	☞ PROTO-CUNEIFORM SIGN DU8-B
12648	☞ PROTO-CUNEIFORM SIGN DU8-B VARIANT 1
12649	☞ PROTO-CUNEIFORM SIGN DU8-C

1264A	☞ PROTO-CUNEIFORM SIGN DU8-C TIMES HI
1264B	☞ PROTO-CUNEIFORM SIGN DU8-C TIMES UDU-A
1264C	☞ PROTO-CUNEIFORM SIGN DU8-C TIMES X
1264D	☞ PROTO-CUNEIFORM SIGN DU8-C GUNU
1264E	☞ PROTO-CUNEIFORM SIGN DU8-C GUNU VARIANT 1
1264F	☞ PROTO-CUNEIFORM SIGN DUB-A
12650	☞ PROTO-CUNEIFORM SIGN DUB-B
12651	☞ PROTO-CUNEIFORM SIGN DUB-B VARIANT 1
12652	☞ PROTO-CUNEIFORM SIGN DUB-B VARIANT 2
12653	☞ PROTO-CUNEIFORM SIGN DUB-B VARIANT 3
12654	☞ PROTO-CUNEIFORM SIGN DUB-B VARIANT 4
12655	☞ PROTO-CUNEIFORM SIGN DUB-C
12656	☞ PROTO-CUNEIFORM SIGN DUB-D
12657	☞ PROTO-CUNEIFORM SIGN DUB-E
12658	☞ PROTO-CUNEIFORM SIGN DUB-F
12659	☞ PROTO-CUNEIFORM SIGN DUB NUTILLU-A TIMES ONE-N58 FORM A
1265A	☞ PROTO-CUNEIFORM SIGN DUB NUTILLU-A TIMES ONE-N58 FORM B
1265B	☞ PROTO-CUNEIFORM SIGN DUB NUTILLU-B TIMES ONE-N58 FORM A
1265C	☞ PROTO-CUNEIFORM SIGN DUB2
1265D	☞ PROTO-CUNEIFORM SIGN DUG-A
1265E	☞ PROTO-CUNEIFORM SIGN DUG-A TIMES KASKAL
1265F	☞ PROTO-CUNEIFORM SIGN DUG-A TIMES LAM-B
12660	☞ PROTO-CUNEIFORM SIGN DUG-A TIMES NAGA-A
12661	☞ PROTO-CUNEIFORM SIGN DUG-A TIMES U2-A
12662	☞ PROTO-CUNEIFORM SIGN DUG-A TIMES U2-B
12663	☞ PROTO-CUNEIFORM SIGN DUG-A TIMES ONE-N57
12664	☞ PROTO-CUNEIFORM SIGN DUG-A VARIANT 1
12665	☞ PROTO-CUNEIFORM SIGN DUG-A VARIANT 2
12666	☞ PROTO-CUNEIFORM SIGN DUG-A TENU
12667	☞ PROTO-CUNEIFORM SIGN DUG-B
12668	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES ANSHE-B
12669	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES ANSHE-D
1266A	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES BALA-A
1266B	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES BIR3-C
1266C	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES DIN
1266D	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES DIN REVERSED
1266E	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES E-A
1266F	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES GA-A VARIANT 4
12670	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES GA-B
12671	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES GESHTU-A VARIANT 2
12672	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES GESHTU-B
12673	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES GI6
12674	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES GISH
12675	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES HI
12676	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES KASKAL
12677	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES KU6-A
12678	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES KUR-A
12679	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES KUR-A PLUS X
1267A	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES KUR-B
1267B	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES KUR GUNU-A
1267C	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES LAM-A
1267D	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES MASH
1267E	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES NAGA-A
1267F	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES NAM2
12680	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES NI-A GUNU PLUS ZATU779
12681	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES SA-A
12682	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES SI4-A
12683	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES SI4-A PLUS X
12684	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES SIG2-A1
12685	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES SIG2-A2
12686	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES SIG7
12687	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES SUHUR
12688	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES SHAH2-A
12689	☞ PROTO-CUNEIFORM SIGN DUG-B TIMES SHE-A

1268A	proto-cuneiform sign DUG-B TIMES SHE-A PLUS NAM2	126C1	proto-cuneiform sign E2-C
1268B	proto-cuneiform sign DUG-B TIMES TAK4-A	126C2	proto-cuneiform sign E2-D
1268C	proto-cuneiform sign DUG-B TIMES TAK4-A PLUS SA-A	126C3	proto-cuneiform sign E3-A
1268D	proto-cuneiform sign DUG-B TIMES TAK4-A PLUS SAL	126C4	proto-cuneiform sign E3-B
1268E	proto-cuneiform sign DUG-B TIMES TI	126C5	proto-cuneiform sign EDIN
1268F	proto-cuneiform sign DUG-B TIMES U2-A	126C6	proto-cuneiform sign EN-A
12690	proto-cuneiform sign DUG-B TIMES U2-B	126C7	proto-cuneiform sign EN-A VARIANT 1
12691	proto-cuneiform sign DUG-B TIMES UH3-A	126C8	proto-cuneiform sign EN-A VARIANT 2
12692	proto-cuneiform sign DUG-B TIMES UH3-A TENU	126C9	proto-cuneiform sign EN-A VARIANT 3
12693	proto-cuneiform sign DUG-B TIMES X	126CA	proto-cuneiform sign EN-B
12694	proto-cuneiform sign DUG-B TIMES ZATU707-A	126CB	proto-cuneiform sign EN-B VARIANT 1
12695	proto-cuneiform sign DUG-B TIMES ZATU764	126CC	proto-cuneiform sign EN-B TENU
12696	proto-cuneiform sign DUG-B TIMES ZATU779	126CD	proto-cuneiform sign EN-C
12697	proto-cuneiform sign DUG-B TIMES ZATU780	126CE	proto-cuneiform sign EN-C OVER EN-C
12698	proto-cuneiform sign DUG-B TIMES ZATU781	126CF	proto-cuneiform sign EN-C VARIANT 1
12699	proto-cuneiform sign DUG-B TIMES ZATU789 PLUS SA-A	126D0	proto-cuneiform sign EN-E
1269A	proto-cuneiform sign DUG-B TIMES ONE-N57	126D1	proto-cuneiform sign EN GUNU-A
1269B	proto-cuneiform sign DUG-B TIMES ONE-N57 PLUS KU3-A	126D2	proto-cuneiform sign EN GUNU-B
1269C	proto-cuneiform sign DUG-B TIMES THREE-N57	126D3	proto-cuneiform sign EN2
1269D	proto-cuneiform sign DUG-B VARIANT 1	126D4	proto-cuneiform sign EN2 BESIDE E2-A
1269E	proto-cuneiform sign DUG-B VARIANT 1 TIMES AB2	126D5	proto-cuneiform sign EN2 BESIDE E2-B
1269F	proto-cuneiform sign DUG-B VARIANT 1 TIMES DIN	126D6	proto-cuneiform sign ENDIB
126A0	proto-cuneiform sign DUG-B VARIANT 1 TIMES GESHTU-A VARIANT 2	126D7	proto-cuneiform sign ENGIZ
126A1	proto-cuneiform sign DUG-B VARIANT 1 TIMES HI	126D8	proto-cuneiform sign ENKUM
126A2	proto-cuneiform sign DUG-B VARIANT 1 TIMES HI GUNU-A	126D9	proto-cuneiform sign ENKUM VARIANT 1
126A3	proto-cuneiform sign DUG-B VARIANT 1 TIMES MASH	126DA	proto-cuneiform sign ENLIL
126A4	proto-cuneiform sign DUG-B VARIANT 1 TIMES SHE-A	126DB	proto-cuneiform sign ERIM-A
126A5	proto-cuneiform sign DUG-B VARIANT 1 TIMES SHE-A TENU	126DC	proto-cuneiform sign ERIM-B1
126A6	proto-cuneiform sign DUG-B VARIANT 1 TIMES U2-B	126DD	proto-cuneiform sign ERIM-B2
126A7	proto-cuneiform sign DUG-B VARIANT 1 TIMES X	126DE	proto-cuneiform sign ERIM2
126A8	proto-cuneiform sign DUG-B VARIANT 1 TIMES ONE-N57	126DF	proto-cuneiform sign ERIN
126A9	proto-cuneiform sign DUG-B VARIANT 1 OVER DUG-B VARIANT 1 TIMES ONE-N58	126E0	proto-cuneiform sign ESHDA
126AA	proto-cuneiform sign DUG-B VARIANT 2 TIMES U2-B	126E1	proto-cuneiform sign ESHDA TIMES TAR-A
126AB	proto-cuneiform sign DUG-C VARIANT 1	126E2	proto-cuneiform sign ESHGAR
126AC	proto-cuneiform sign DUG-C VARIANT 1 TIMES ONE-N57	126E3	proto-cuneiform sign EZEN-A
126AD	proto-cuneiform sign DUG-C VARIANT 2 TIMES ONE-N57	126E4	proto-cuneiform sign EZEN-A TIMES EN-B VARIANT 1
126AE	proto-cuneiform sign DUG-C VARIANT 3	126E5	proto-cuneiform sign EZEN-A TIMES HI TIMES ONE-N57 PLUS AN
126AF	proto-cuneiform sign DUG-C VARIANT 3 TIMES ONE-N57	126E6	proto-cuneiform sign EZEN-A TIMES KAB
126B0	proto-cuneiform sign DUG-C TENU	126E7	proto-cuneiform sign EZEN-A TIMES KI
126B1	proto-cuneiform sign DUG-C2 TENU	126E8	proto-cuneiform sign EZEN-A TIMES LA-E VARIANT 1
126B2	proto-cuneiform sign DUGUD	126E9	proto-cuneiform sign EZEN-A TIMES NIM-B2
126B3	proto-cuneiform sign DUR-A	126EA	proto-cuneiform sign EZEN-A TIMES NIMGIR
126B4	proto-cuneiform sign DUR-B	126EB	proto-cuneiform sign EZEN-A TIMES RAD-A
126B5	proto-cuneiform sign DUR2	126EC	proto-cuneiform sign EZEN-A TIMES SAG VARIANT 1
126B6	proto-cuneiform sign E-A	126ED	proto-cuneiform sign EZEN-A TIMES SU-A
126B7	proto-cuneiform sign E-B	126EE	proto-cuneiform sign EZEN-A TIMES U2-B PLUS A
126B8	proto-cuneiform sign E-C	126EF	proto-cuneiform sign EZEN-A TIMES U4
126B9	proto-cuneiform sign E-D	126F0	proto-cuneiform sign EZEN-A TIMES X
126BA	proto-cuneiform sign E2-A	126F1	proto-cuneiform sign EZEN-A VARIANT 1
126BB	proto-cuneiform sign E2-A BESIDE LISH	126F2	proto-cuneiform sign EZEN-A VARIANT 1 TIMES EN-A
126BC	proto-cuneiform sign E2-A TIMES THREE-N58	126F3	proto-cuneiform sign EZEN-B
126BD	proto-cuneiform sign E2-A TIMES ONE-N58 TENU	126F4	proto-cuneiform sign EZEN-B TIMES SIX-N57 VARIANT 1
126BE	proto-cuneiform sign E2-B	126F5	proto-cuneiform sign EZEN-B TENU
126BF	proto-cuneiform sign E2-B BESIDE LISH	126F6	proto-cuneiform sign EZINU-A
126C0	proto-cuneiform sign E2-B TIMES ONE-N58 TENU	126F7	proto-cuneiform sign EZINU-B
		126F8	proto-cuneiform sign EZINU-C
		126F9	proto-cuneiform sign EZINU-D
		126FA	proto-cuneiform sign GA-A
		126FB	proto-cuneiform sign GA-A VARIANT 1
		126FC	proto-cuneiform sign GA-A VARIANT 1 BESIDE ZATU753
		126FD	proto-cuneiform sign GA-A VARIANT 2
		126FE	proto-cuneiform sign GA-A VARIANT 3
		126FF	proto-cuneiform sign GA-A VARIANT 4
		12700	proto-cuneiform sign GA-A VARIANT 4 BESIDE ZATU753 VARIANT 1

12701 𒂔 PROTO-CUNEIFORM SIGN GA-B  
 12702 𒂕 PROTO-CUNEIFORM SIGN GA-C  
 12703 𒂖 PROTO-CUNEIFORM SIGN GA-C TIMES KASKAL  
 12704 𒂗 PROTO-CUNEIFORM SIGN GA-C TIMES ONE-N14  
 12705 𒂘 PROTO-CUNEIFORM SIGN GA2-A1  
 12706 𒂙 PROTO-CUNEIFORM SIGN GA2-A1 TIMES A  
 12707 𒂚 PROTO-CUNEIFORM SIGN GA2-A1 TIMES EN-B  
 VARIANT 1  
 12708 𒂛 PROTO-CUNEIFORM SIGN GA2-A1 TIMES GESHTU-C3  
 12709 𒂜 PROTO-CUNEIFORM SIGN GA2-A1 TIMES GESHTU-C5  
 1270A 𒂝 PROTO-CUNEIFORM SIGN GA2-A1 TIMES GIR-A  
 1270B 𒂞 PROTO-CUNEIFORM SIGN GA2-A1 TIMES GIR-A PLUS  
 SUHUR VARIANT 1  
 1270C 𒂟 PROTO-CUNEIFORM SIGN GA2-A1 TIMES GISH TENU  
 1270D 𒂠 PROTO-CUNEIFORM SIGN GA2-A1 TIMES HAL  
 1270E 𒂡 PROTO-CUNEIFORM SIGN GA2-A1 TIMES HI  
 1270F 𒂢 PROTO-CUNEIFORM SIGN GA2-A1 TIMES HI PLUS  
 SUHUR VARIANT 1  
 12710 𒂣 PROTO-CUNEIFORM SIGN GA2-A1 TIMES KU3-A  
 12711 𒂤 PROTO-CUNEIFORM SIGN GA2-A1 TIMES KU6-A  
 12712 𒂥 PROTO-CUNEIFORM SIGN GA2-A1 TIMES KU6-A PLUS  
 KU6-A  
 12713 𒂦 PROTO-CUNEIFORM SIGN GA2-A1 TIMES LAGAB-B  
 12714 𒂮 PROTO-CUNEIFORM SIGN GA2-A1 TIMES MASH  
 12715 𒂯 PROTO-CUNEIFORM SIGN GA2-A1 TIMES NAGA-A  
 12716 𒂰 PROTO-CUNEIFORM SIGN GA2-A1 TIMES NIM-B1  
 12717 𒂱 PROTO-CUNEIFORM SIGN GA2-A1 TIMES PAD-B  
 12718 𒂲 PROTO-CUNEIFORM SIGN GA2-A1 TIMES PAP-A  
 12719 𒂳 PROTO-CUNEIFORM SIGN GA2-A1 TIMES SU-A  
 1271A 𒂴 PROTO-CUNEIFORM SIGN GA2-A1 TIMES SUHUR  
 1271B 𒂵 PROTO-CUNEIFORM SIGN GA2-A1 TIMES SUKUD  
 1271C 𒂶 PROTO-CUNEIFORM SIGN GA2-A1 TIMES SUKUD  
 JOINING SUKUD FORM A  
 1271D 𒂷 PROTO-CUNEIFORM SIGN GA2-A1 TIMES SUKUD  
 JOINING SUKUD FORM B  
 1271E 𒂸 PROTO-CUNEIFORM SIGN GA2-A1 TIMES SUMASH  
 1271F 𒂹 PROTO-CUNEIFORM SIGN GA2-A1 TIMES SHA  
 12720 𒂺 PROTO-CUNEIFORM SIGN GA2-A1 TIMES TI  
 12721 𒂻 PROTO-CUNEIFORM SIGN GA2-A1 TIMES U4  
 12722 𒂼 PROTO-CUNEIFORM SIGN GA2-A1 TIMES X  
 12723 𒂽 PROTO-CUNEIFORM SIGN GA2-A1 TIMES ONE-N14  
 12724 𒂾 PROTO-CUNEIFORM SIGN GA2-A1 TIMES ONE-N57  
 12725 𒂿 PROTO-CUNEIFORM SIGN GA2-A1 TIMES THREE-N57  
 12726 𒂿 PROTO-CUNEIFORM SIGN GA2-A2  
 12727 𒂿 PROTO-CUNEIFORM SIGN GA2-A2 TIMES GU4  
 12728 𒂿 PROTO-CUNEIFORM SIGN GA2-A2 TIMES NI-A  
 12729 𒂿 PROTO-CUNEIFORM SIGN GA2-A2 TIMES NI-B  
 1272A 𒂿 PROTO-CUNEIFORM SIGN GA2-A2 TIMES SUHUR  
 1272B 𒂿 PROTO-CUNEIFORM SIGN GA2-A2 TIMES SHE3  
 VARIANT 1  
 1272C 𒂿 PROTO-CUNEIFORM SIGN GA2-A2 TIMES SHE3  
 VARIANT 1 PLUS GU4  
 1272D 𒂿 PROTO-CUNEIFORM SIGN GA2-A2 TIMES X  
 1272E 𒂿 PROTO-CUNEIFORM SIGN GA2-A3  
 1272F 𒂿 PROTO-CUNEIFORM SIGN GA2-A3 TIMES X  
 12730 𒂿 PROTO-CUNEIFORM SIGN GA2-A4  
 12731 𒂿 PROTO-CUNEIFORM SIGN GA2-B  
 12732 𒂿 PROTO-CUNEIFORM SIGN GA2-B TIMES DUB-A  
 12733 𒂿 PROTO-CUNEIFORM SIGN GA2-B TIMES DUB-B  
 VARIANT 2  
 12734 𒂿 PROTO-CUNEIFORM SIGN GA2-B TIMES KU3-A  
 12735 𒂿 PROTO-CUNEIFORM SIGN GA2-B TIMES ZATU659  
 12736 𒂿 PROTO-CUNEIFORM SIGN GA2-C  
 12737 𒂿 PROTO-CUNEIFORM SIGN GAAR-A1  
 12738 𒂿 PROTO-CUNEIFORM SIGN GAAR-A2  
 12739 𒂿 PROTO-CUNEIFORM SIGN GAAR-B1  
 1273A 𒂿 PROTO-CUNEIFORM SIGN GAAR-B2  
 1273B 𒂿 PROTO-CUNEIFORM SIGN GADA-A  
 1273C 𒂿 PROTO-CUNEIFORM SIGN GADA-B  
 1273D 𒂿 PROTO-CUNEIFORM SIGN GADA-B GUNU  
 1273E 𒂿 PROTO-CUNEIFORM SIGN GAL-A  
 1273F 𒂿 PROTO-CUNEIFORM SIGN GAL-B

12740 𒂿 PROTO-CUNEIFORM SIGN GALGA-A  
 12741 𒂿 PROTO-CUNEIFORM SIGN GALGA-B  
 12742 𒂿 PROTO-CUNEIFORM SIGN GAN-A  
 12743 𒂿 PROTO-CUNEIFORM SIGN GAN-A VARIANT 1  
 12744 𒂿 PROTO-CUNEIFORM SIGN GAN-B  
 12745 𒂿 PROTO-CUNEIFORM SIGN GAN-B VARIANT 1  
 12746 𒂿 PROTO-CUNEIFORM SIGN GAN-B VARIANT 2  
 12747 𒂿 PROTO-CUNEIFORM SIGN GAN-B VARIANT 3  
 12748 𒂿 PROTO-CUNEIFORM SIGN GAN-C  
 12749 𒂿 PROTO-CUNEIFORM SIGN GAN-C TIMES DIN  
 1274A 𒂿 PROTO-CUNEIFORM SIGN GAN-C TIMES HI  
 1274B 𒂿 PROTO-CUNEIFORM SIGN GAN-C TIMES HI PLUS DIN  
 1274C 𒂿 PROTO-CUNEIFORM SIGN GAN-C TIMES LAGAB-B  
 1274D 𒂿 PROTO-CUNEIFORM SIGN GAN-C TIMES NE-A  
 1274E 𒂿 PROTO-CUNEIFORM SIGN GAN-C TIMES SIG7  
 1274F 𒂿 PROTO-CUNEIFORM SIGN GAN-C TIMES X  
 12750 𒂿 PROTO-CUNEIFORM SIGN GAN-C VARIANT 1  
 12751 𒂿 PROTO-CUNEIFORM SIGN GAN-C VARIANT 1 TIMES  
 KASH-C  
 12752 𒂿 PROTO-CUNEIFORM SIGN GAN-C VARIANT 1 TIMES  
 KUR-A PLUS A  
 12753 𒂿 PROTO-CUNEIFORM SIGN GAN-C VARIANT 1 TIMES  
 ZATU777 VARIANT 1  
 12754 𒂿 PROTO-CUNEIFORM SIGN GAN-C VARIANT 2 TIMES  
 SHE-A  
 12755 𒂿 PROTO-CUNEIFORM SIGN GAN-C VARIANT 2 TIMES  
 SHE3 TENU VARIANT 1  
 12756 𒂿 PROTO-CUNEIFORM SIGN GAN-D TIMES GESHTU-A  
 VARIANT 2  
 12757 𒂿 PROTO-CUNEIFORM SIGN GAN2  
 12758 𒂿 PROTO-CUNEIFORM SIGN GAR  
 12759 𒂿 PROTO-CUNEIFORM SIGN GAR GUNU-A  
 1275A 𒂿 PROTO-CUNEIFORM SIGN GAR GUNU-B  
 1275B 𒂿 PROTO-CUNEIFORM SIGN GAR GUNU-C  
 1275C 𒂿 PROTO-CUNEIFORM SIGN GAR3  
 1275D 𒂿 PROTO-CUNEIFORM SIGN GARA2-A  
 1275E 𒂿 PROTO-CUNEIFORM SIGN GARA2-B  
 1275F 𒂿 PROTO-CUNEIFORM SIGN GAZI  
 12760 𒂿 PROTO-CUNEIFORM SIGN GESHTIN-A  
 12761 𒂿 PROTO-CUNEIFORM SIGN GESHTU-A  
 12762 𒂿 PROTO-CUNEIFORM SIGN GESHTU-A VARIANT 1  
 12763 𒂿 PROTO-CUNEIFORM SIGN GESHTU-A VARIANT 2  
 12764 𒂿 PROTO-CUNEIFORM SIGN GESHTU-B  
 12765 𒂿 PROTO-CUNEIFORM SIGN GESHTU-C3  
 12766 𒂿 PROTO-CUNEIFORM SIGN GESHTU-C3 VARIANT 1  
 12767 𒂿 PROTO-CUNEIFORM SIGN GESHTU-C5  
 12768 𒂿 PROTO-CUNEIFORM SIGN GI  
 12769 𒂿 PROTO-CUNEIFORM SIGN GI TIMES KU-B1  
 1276A 𒂿 PROTO-CUNEIFORM SIGN GI TIMES NAM2  
 1276B 𒂿 PROTO-CUNEIFORM SIGN GI TIMES SIG2-D1  
 1276C 𒂿 PROTO-CUNEIFORM SIGN GI TIMES SHE3 VARIANT 1  
 1276D 𒂿 PROTO-CUNEIFORM SIGN GI TIMES X  
 1276E 𒂿 PROTO-CUNEIFORM SIGN GI TIMES ONE-N58 TENU  
 1276F 𒂿 PROTO-CUNEIFORM SIGN GI OVER GI  
 12770 𒂿 PROTO-CUNEIFORM SIGN GI OVER GI TIMES GISH  
 TENU  
 12771 𒂿 PROTO-CUNEIFORM SIGN GI OVER GI TIMES SHE3  
 VARIANT 1  
 12772 𒂿 PROTO-CUNEIFORM SIGN GI OVER GI TIMES X  
 12773 𒂿 PROTO-CUNEIFORM SIGN GI VARIANT 1  
 12774 𒂿 PROTO-CUNEIFORM SIGN GI VARIANT 1 TIMES GISH  
 TENU  
 12775 𒂿 PROTO-CUNEIFORM SIGN GI VARIANT 1 TIMES  
 LAGAB-A  
 12776 𒂿 PROTO-CUNEIFORM SIGN GI VARIANT 1 TIMES ONE-  
 N14  
 12777 𒂿 PROTO-CUNEIFORM SIGN GI VARIANT 1 OVER GI  
 VARIANT 1 OVER GI VARIANT 1  
 12778 𒂿 PROTO-CUNEIFORM SIGN GI TENU  
 12779 𒂿 PROTO-CUNEIFORM SIGN GI4-A  
 1277A 𒂿 PROTO-CUNEIFORM SIGN GI4-A TIMES A  
 1277B 𒂿 PROTO-CUNEIFORM SIGN GI4-A OVER GI4-A

1277C 𒂔 PROTO-CUNEIFORM SIGN GI4-B  
 1277D 𒂔 PROTO-CUNEIFORM SIGN GI4-B OVER GI4-B  
 1277E 𒂔 PROTO-CUNEIFORM SIGN GI6  
 1277F 𒂔 PROTO-CUNEIFORM SIGN GI6 VARIANT 1  
 12780 𒂔 PROTO-CUNEIFORM SIGN GIBIL  
 12781 𒂔 PROTO-CUNEIFORM SIGN GIBIL TENU  
 12782 𒂔 PROTO-CUNEIFORM SIGN GIBIL6  
 12783 𒂔 PROTO-CUNEIFORM SIGN GIR-A  
 12784 𒂔 PROTO-CUNEIFORM SIGN GIR-A BESIDE KU6-A  
 12785 𒂔 PROTO-CUNEIFORM SIGN GIR-B  
 12786 𒂔 PROTO-CUNEIFORM SIGN GIR-B VARIANT 1  
 12787 𒂔 PROTO-CUNEIFORM SIGN GIR-B VARIANT 1 BESIDE GIR-B VARIANT 1  
 12788 𒂔 PROTO-CUNEIFORM SIGN GIR-C  
 12789 𒂔 PROTO-CUNEIFORM SIGN GIR-D  
 1278A 𒂔 PROTO-CUNEIFORM SIGN GIR2-A  
 1278B 𒂔 PROTO-CUNEIFORM SIGN GIR2-B  
 1278C 𒂔 PROTO-CUNEIFORM SIGN GIR3-A  
 1278D 𒂔 PROTO-CUNEIFORM SIGN GIR3-A TIMES SHE-B  
 1278E 𒂔 PROTO-CUNEIFORM SIGN GIR3-B  
 1278F 𒂔 PROTO-CUNEIFORM SIGN GIR3-C  
 12790 𒂔 PROTO-CUNEIFORM SIGN GIR3-C TIMES KAR2-B  
 12791 𒂔 PROTO-CUNEIFORM SIGN GIR3-C TIMES SHE3 VARIANT 1  
 12792 𒂔 PROTO-CUNEIFORM SIGN GIR3 GUNU-A  
 12793 𒂔 PROTO-CUNEIFORM SIGN GIR3 GUNU-B  
 12794 𒂔 PROTO-CUNEIFORM SIGN GIR3 GUNU-C  
 12795 𒂔 PROTO-CUNEIFORM SIGN GISAL-A  
 12796 𒂔 PROTO-CUNEIFORM SIGN GISAL-B  
 12797 𒂔 PROTO-CUNEIFORM SIGN GISH  
 12798 𒂔 PROTO-CUNEIFORM SIGN GISH BESIDE TE  
 12799 𒂔 PROTO-CUNEIFORM SIGN GISH TIMES DIN PLUS DIN FORM A  
 1279A 𒂔 PROTO-CUNEIFORM SIGN GISH TIMES DIN PLUS DIN FORM B  
 1279B 𒂔 PROTO-CUNEIFORM SIGN GISH TIMES DIN PLUS DIN FORM C  
 1279C 𒂔 PROTO-CUNEIFORM SIGN GISH TIMES SHU2-A  
 1279D 𒂔 PROTO-CUNEIFORM SIGN GISH TIMES SHU2-B  
 1279E 𒂔 PROTO-CUNEIFORM SIGN GISH TENU  
 1279F 𒂔 PROTO-CUNEIFORM SIGN GISH3-A  
 127A0 𒂔 PROTO-CUNEIFORM SIGN GISH3-A OVER GISH3-A  
 127A1 𒂔 PROTO-CUNEIFORM SIGN GISH3-B  
 127A2 𒂔 PROTO-CUNEIFORM SIGN GISHGAL  
 127A3 𒂔 PROTO-CUNEIFORM SIGN GISHGAL VARIANT 1  
 127A4 𒂔 PROTO-CUNEIFORM SIGN GISHIMMAR-A1  
 127A5 𒂔 PROTO-CUNEIFORM SIGN GISHIMMAR-A2  
 127A6 𒂔 PROTO-CUNEIFORM SIGN GISHIMMAR-A3  
 127A7 𒂔 PROTO-CUNEIFORM SIGN GISHIMMAR-B1  
 127A8 𒂔 PROTO-CUNEIFORM SIGN GISHIMMAR-B1 VARIANT 1  
 127A9 𒂔 PROTO-CUNEIFORM SIGN GISHIMMAR-B1 VARIANT 2  
 127AA 𒂔 PROTO-CUNEIFORM SIGN GISHIMMAR-B3  
 127AB 𒂔 PROTO-CUNEIFORM SIGN GIZZAL-V  
 127AC 𒂔 PROTO-CUNEIFORM SIGN GU  
 127AD 𒂔 PROTO-CUNEIFORM SIGN GU2  
 127AE 𒂔 PROTO-CUNEIFORM SIGN GU4  
 127AF 𒂔 PROTO-CUNEIFORM SIGN GU4 BESIDE ZATU755-B  
 127B0 𒂔 PROTO-CUNEIFORM SIGN GU4 VARIANT 1  
 127B1 𒂔 PROTO-CUNEIFORM SIGN GU4 GUNU  
 127B2 𒂔 PROTO-CUNEIFORM SIGN GU7  
 127B3 𒂔 PROTO-CUNEIFORM SIGN GU7 VARIANT 1  
 127B4 𒂔 PROTO-CUNEIFORM SIGN GUB3-A  
 127B5 𒂔 PROTO-CUNEIFORM SIGN GUB3-B  
 127B6 𒂔 PROTO-CUNEIFORM SIGN GUB3-C  
 127B7 𒂔 PROTO-CUNEIFORM SIGN GUB3-D  
 127B8 𒂔 PROTO-CUNEIFORM SIGN GUG2  
 127B9 𒂔 PROTO-CUNEIFORM SIGN GUG2 VARIANT 1  
 127BA 𒂔 PROTO-CUNEIFORM SIGN GUG2 VARIANT 1 TIMES SILA3-A  
 127BB 𒂔 PROTO-CUNEIFORM SIGN GUG2 VARIANT 1 TIMES TUR VARIANT 1

127BC 𒂔 PROTO-CUNEIFORM SIGN GUG2 TENU  
 127BD 𒂔 PROTO-CUNEIFORM SIGN GUUKAL-A  
 127BE 𒂔 PROTO-CUNEIFORM SIGN GUUKAL-A BESIDE HI GUNU-A  
 127BF 𒂔 PROTO-CUNEIFORM SIGN GUUKAL-B  
 127C0 𒂔 PROTO-CUNEIFORM SIGN GUUKAL-C  
 127C1 𒂔 PROTO-CUNEIFORM SIGN GUUKAL-D  
 127C2 𒂔 PROTO-CUNEIFORM SIGN GUL  
 127C3 𒂔 PROTO-CUNEIFORM SIGN GUM-A  
 127C4 𒂔 PROTO-CUNEIFORM SIGN GUM-B  
 127C5 𒂔 PROTO-CUNEIFORM SIGN GUM-B VARIANT 1  
 127C6 𒂔 PROTO-CUNEIFORM SIGN GUM-B NUTILLU  
 127C7 𒂔 PROTO-CUNEIFORM SIGN GUM-B NUTILLU VARIANT 1  
 127C8 𒂔 PROTO-CUNEIFORM SIGN GUN3-A  
 127C9 𒂔 PROTO-CUNEIFORM SIGN GUN3-B  
 127CA 𒂔 PROTO-CUNEIFORM SIGN GUR  
 127CB 𒂔 PROTO-CUNEIFORM SIGN GURUSH-A  
 127CC 𒂔 PROTO-CUNEIFORM SIGN GURUSH-A TIMES TWO-N14  
 127CD 𒂔 PROTO-CUNEIFORM SIGN GURUSH-A VARIANT 1  
 127CE 𒂔 PROTO-CUNEIFORM SIGN GURUSH-B  
 127CF 𒂔 PROTO-CUNEIFORM SIGN GURUSH-B TIMES TWO-N14  
 127D0 𒂔 PROTO-CUNEIFORM SIGN GURUSH-C TIMES TWO-N14  
 127D1 𒂔 PROTO-CUNEIFORM SIGN GURUSHDA  
 127D2 𒂔 PROTO-CUNEIFORM SIGN HAL  
 127D3 𒂔 PROTO-CUNEIFORM SIGN HALUB  
 127D4 𒂔 PROTO-CUNEIFORM SIGN HASHHUR  
 127D5 𒂔 PROTO-CUNEIFORM SIGN HASHHUR TIMES MA  
 127D6 diamond PROTO-CUNEIFORM SIGN HI  
 127D7 𒂔 PROTO-CUNEIFORM SIGN HI BESIDE SUHUR  
 127D8 𒂔 PROTO-CUNEIFORM SIGN HI BESIDE SUHUR VARIANT 1  
 127D9 𒂔 PROTO-CUNEIFORM SIGN HI BESIDE SUHUR VARIANT 2  
 127DA infinity PROTO-CUNEIFORM SIGN HI TIMES LAGAB-A  
 127DB diamond PROTO-CUNEIFORM SIGN HI TIMES ZATU707-A  
 127DC diamond PROTO-CUNEIFORM SIGN HI TIMES ONE-N57  
 127DD doubleinfinity PROTO-CUNEIFORM SIGN HI TIMES ONE-N57 BESIDE HI TIMES ONE-N57  
 127DE diamond PROTO-CUNEIFORM SIGN HI TIMES ONE-N57 TENU  
 127DF diamond PROTO-CUNEIFORM SIGN HI TIMES ONE-N58  
 127E0 diamond PROTO-CUNEIFORM SIGN HI GUNU-A  
 127E1 ◐ PROTO-CUNEIFORM SIGN HI GUNU-B  
 127E2 diamond PROTO-CUNEIFORM SIGN HI GUNU-C  
 127E3 equals PROTO-CUNEIFORM SIGN I  
 127E4 ◐ PROTO-CUNEIFORM SIGN IB-A  
 127E5 ◐ PROTO-CUNEIFORM SIGN IB-A NUTILLU  
 127E6 ◐ PROTO-CUNEIFORM SIGN IB-B  
 127E7 ◐ PROTO-CUNEIFORM SIGN IDIGNA  
 127E8 ◐ PROTO-CUNEIFORM SIGN IDIGNA VARIANT 1  
 127E9 ◐ PROTO-CUNEIFORM SIGN IG-A  
 127EA ◐ PROTO-CUNEIFORM SIGN IG-B  
 127EB ◐ PROTO-CUNEIFORM SIGN IL  
 127EC ◐ PROTO-CUNEIFORM SIGN ILDUM-A  
 127ED ◐ PROTO-CUNEIFORM SIGN ILDUM-B  
 127EE ◐ PROTO-CUNEIFORM SIGN IM-A  
 127EF ◐ PROTO-CUNEIFORM SIGN IM-B  
 127F0 ◐ PROTO-CUNEIFORM SIGN IN-B  
 127F1 ◐ PROTO-CUNEIFORM SIGN IN-B VARIANT 1  
 127F2 ◐ PROTO-CUNEIFORM SIGN IN-D  
 127F3 ◐ PROTO-CUNEIFORM SIGN IR-A  
 127F4 ◐ PROTO-CUNEIFORM SIGN IR-A BESIDE GA2-A1  
 127F5 ◐ PROTO-CUNEIFORM SIGN IR-B  
 127F6 ◐ PROTO-CUNEIFORM SIGN IR-C  
 127F7 ◐ PROTO-CUNEIFORM SIGN IR-D  
 127F8 ◐ PROTO-CUNEIFORM SIGN IR11  
 127F9 ◐ PROTO-CUNEIFORM SIGN IR11 VARIANT 1  
 127FA ◐ PROTO-CUNEIFORM SIGN IRHAN  
 127FB ◐ PROTO-CUNEIFORM SIGN ISH-A  
 127FC ◐ PROTO-CUNEIFORM SIGN ISH-A VARIANT 1  
 127FD ◐ PROTO-CUNEIFORM SIGN ISH-B  
 127FE ◐ PROTO-CUNEIFORM SIGN ISH-B VARIANT 1

127FF 𒂔 PROTO-CUNEIFORM SIGN ISH-B VARIANT 2  
 12800 𒂕 PROTO-CUNEIFORM SIGN ISH-B VARIANT 3  
 12801 𒂖 PROTO-CUNEIFORM SIGN ISH-B VARIANT 4  
 12802 𒂗 PROTO-CUNEIFORM SIGN ISH-B VARIANT 5  
 12803 𒂘 PROTO-CUNEIFORM SIGN ISH-C  
 12804 𒂙 PROTO-CUNEIFORM SIGN KA-A  
 12805 𒂚 PROTO-CUNEIFORM SIGN KA-A TIMES SAR-A  
 12806 𒂛 PROTO-CUNEIFORM SIGN KA-A VARIANT 1 BESIDE SHE-A  
 12807 𒂜 PROTO-CUNEIFORM SIGN KA-A VARIANT 2 BESIDE SHE-A TENU  
 12808 𒂝 PROTO-CUNEIFORM SIGN KA2-A  
 12809 𒂞 PROTO-CUNEIFORM SIGN KA2-B  
 1280A 𒂟 PROTO-CUNEIFORM SIGN KA2-C  
 1280B 𒂠 PROTO-CUNEIFORM SIGN KA2-D TIMES LAM-B VARIANT 2  
 1280C 𒂡 PROTO-CUNEIFORM SIGN KAB  
 1280D 𒂢 PROTO-CUNEIFORM SIGN KAB TIMES ONE-N58  
 1280E 𒂣 PROTO-CUNEIFORM SIGN KAD4-A  
 1280F 𒂤 PROTO-CUNEIFORM SIGN KAD4-B  
 12810 𒂥 PROTO-CUNEIFORM SIGN KAD4-C1  
 12811 𒂦 PROTO-CUNEIFORM SIGN KAD4-C2  
 12812 𒂧 PROTO-CUNEIFORM SIGN KAK-A  
 12813 𒂨 PROTO-CUNEIFORM SIGN KAK-A BESIDE GA2-A1  
 12814 𒂩 PROTO-CUNEIFORM SIGN KAK-B  
 12815 𒂪 PROTO-CUNEIFORM SIGN KAL-A  
 12816 𒂫 PROTO-CUNEIFORM SIGN KAL-B1  
 12817 𒂬 PROTO-CUNEIFORM SIGN KAL-B1 VARIANT 1  
 12818 𒂭 PROTO-CUNEIFORM SIGN KAL-B2  
 12819 𒂮 PROTO-CUNEIFORM SIGN KALAM-A  
 1281A 𒂯 PROTO-CUNEIFORM SIGN KALAM-B  
 1281B 𒂰 PROTO-CUNEIFORM SIGN KALAM-C  
 1281C 𒂱 PROTO-CUNEIFORM SIGN KALAM-D  
 1281D 𒂲 PROTO-CUNEIFORM SIGN KALAM-E  
 1281E 𒂳 PROTO-CUNEIFORM SIGN KALAM-F  
 1281F 𒂴 PROTO-CUNEIFORM SIGN KAR  
 12820 𒂵 PROTO-CUNEIFORM SIGN KAR2-A  
 12821 𒂶 PROTO-CUNEIFORM SIGN KAR2-B  
 12822 𒂷 PROTO-CUNEIFORM SIGN KASKAL  
 12823 𒂸 PROTO-CUNEIFORM SIGN KASKAL GUNU  
 12824 𒂹 PROTO-CUNEIFORM SIGN KASH-A  
 12825 𒂺 PROTO-CUNEIFORM SIGN KASH-A VARIANT 1  
 12826 𒂻 PROTO-CUNEIFORM SIGN KASH-B  
 12827 𒂼 PROTO-CUNEIFORM SIGN KASH-B VARIANT 1  
 12828 𒂽 PROTO-CUNEIFORM SIGN KASH-B VARIANT 1 TIMES SHE-A TENU VARIANT 1  
 12829 𒂾 PROTO-CUNEIFORM SIGN KASH-B TENU  
 1282A 𒂿 PROTO-CUNEIFORM SIGN KASH-C  
 1282B 𒂿 PROTO-CUNEIFORM SIGN KASH-D  
 1282C 𒂿 PROTO-CUNEIFORM SIGN KI  
 1282D 𒂿 PROTO-CUNEIFORM SIGN KI NUTILLU  
 1282E 𒂿 PROTO-CUNEIFORM SIGN KI NUTILLU TIMES DUB-A  
 1282F 𒂿 PROTO-CUNEIFORM SIGN KIB  
 12830 𒂿 PROTO-CUNEIFORM SIGN KIB GUNU  
 12831 𒂿 PROTO-CUNEIFORM SIGN KID-A  
 12832 𒂿 PROTO-CUNEIFORM SIGN KID-B  
 12833 𒂿 PROTO-CUNEIFORM SIGN KID-C  
 12834 𒂿 PROTO-CUNEIFORM SIGN KID-D  
 12835 𒂿 PROTO-CUNEIFORM SIGN KID-E  
 12836 𒂿 PROTO-CUNEIFORM SIGN KIN  
 12837 𒂿 PROTO-CUNEIFORM SIGN KIN2-A  
 12838 𒂿 PROTO-CUNEIFORM SIGN KIN2-C  
 12839 𒂿 PROTO-CUNEIFORM SIGN KIN2-D  
 1283A 𒂿 PROTO-CUNEIFORM SIGN KIN2-E  
 1283B 𒂿 PROTO-CUNEIFORM SIGN KINGAL  
 1283C 𒂿 PROTO-CUNEIFORM SIGN KINGAL VARIANT 1  
 1283D 𒂿 PROTO-CUNEIFORM SIGN KIR11  
 1283E 𒂿 PROTO-CUNEIFORM SIGN KISAL-A1  
 1283F 𒂿 PROTO-CUNEIFORM SIGN KISAL-A2  
 12840 𒂿 PROTO-CUNEIFORM SIGN KISAL-B1  
 12841 𒂿 PROTO-CUNEIFORM SIGN KISAL-B2

12842 𒂿 PROTO-CUNEIFORM SIGN KISAL-B2 TENU  
 12843 𒂿 PROTO-CUNEIFORM SIGN KISAL-B3  
 12844 𒂿 PROTO-CUNEIFORM SIGN KISIM-A  
 12845 𒂿 PROTO-CUNEIFORM SIGN KISIM-B  
 12846 𒂿 PROTO-CUNEIFORM SIGN KISIM-B VARIANT 1  
 12847 𒂿 PROTO-CUNEIFORM SIGN KISIM-B VARIANT 2  
 12848 𒂿 PROTO-CUNEIFORM SIGN KISIM-B VARIANT 3  
 12849 𒂿 PROTO-CUNEIFORM SIGN KISIM-C  
 1284A 𒂿 PROTO-CUNEIFORM SIGN KISH  
 1284B 𒂿 PROTO-CUNEIFORM SIGN KISH VARIANT 1  
 1284C 𒂿 PROTO-CUNEIFORM SIGN KISHIK-A  
 1284D 𒂿 PROTO-CUNEIFORM SIGN KISHIK-B  
 1284E 𒂿 PROTO-CUNEIFORM SIGN KITI  
 1284F 𒂿 PROTO-CUNEIFORM SIGN KITI VARIANT 1  
 12850 𒂿 PROTO-CUNEIFORM SIGN KU-A  
 12851 𒂿 PROTO-CUNEIFORM SIGN KU-B1  
 12852 𒂿 PROTO-CUNEIFORM SIGN KU-B2  
 12853 𒂿 PROTO-CUNEIFORM SIGN KU3-A  
 12854 𒂿 PROTO-CUNEIFORM SIGN KU3-C  
 12855 𒂿 PROTO-CUNEIFORM SIGN KU6-A  
 12856 𒂿 PROTO-CUNEIFORM SIGN KU6-A BESIDE ONE-N2  
 12857 𒂿 PROTO-CUNEIFORM SIGN KU6-A JOINING GISH  
 12858 𒂿 PROTO-CUNEIFORM SIGN KU6-A JOINING KU6-A  
 12859 𒂿 PROTO-CUNEIFORM SIGN KU6-A SHESHIG  
 1285A 𒂿 PROTO-CUNEIFORM SIGN KU6-C  
 1285B 𒂿 PROTO-CUNEIFORM SIGN KU6-D  
 1285C 𒂿 PROTO-CUNEIFORM SIGN KUR-A  
 1285D 𒂿 PROTO-CUNEIFORM SIGN KUR-A BESIDE E2-A  
 1285E 𒂿 PROTO-CUNEIFORM SIGN KUR-A BESIDE NUNUZ-A1  
 1285F 𒂿 PROTO-CUNEIFORM SIGN KUR-B  
 12860 𒂿 PROTO-CUNEIFORM SIGN KUR-B BESIDE E2-A  
 12861 𒂿 PROTO-CUNEIFORM SIGN KUR-C  
 12862 𒂿 PROTO-CUNEIFORM SIGN KUR-C VARIANT 1  
 12863 𒂿 PROTO-CUNEIFORM SIGN KUR-D  
 12864 𒂿 PROTO-CUNEIFORM SIGN KUR GUNU-A  
 12865 𒂿 PROTO-CUNEIFORM SIGN KUR GUNU-B  
 12866 𒂿 PROTO-CUNEIFORM SIGN KUSHU2-A  
 12867 𒂿 PROTO-CUNEIFORM SIGN KUSHU2-B  
 12868 𒂿 PROTO-CUNEIFORM SIGN KUSHU2-C  
 12869 𒂿 PROTO-CUNEIFORM SIGN KUSHU2-D  
 1286A 𒂿 PROTO-CUNEIFORM SIGN KUSHU2-E  
 1286B 𒂿 PROTO-CUNEIFORM SIGN KUSHU2-F  
 1286C 𒂿 PROTO-CUNEIFORM SIGN LA-B  
 1286D 𒂿 PROTO-CUNEIFORM SIGN LA-C  
 1286E 𒂿 PROTO-CUNEIFORM SIGN LA-D  
 1286F 𒂿 PROTO-CUNEIFORM SIGN LA2  
 12870 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A  
 12871 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES BA  
 12872 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES BIR3-B  
 12873 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES DU6-A VARIANT 1  
 12874 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES KAK-A  
 12875 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES KU6-A  
 12876 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES KU6-A JOINING KU6-A  
 12877 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES KUSHU2-A TENU  
 12878 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES LAGAB-A  
 12879 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES ME-A  
 1287A 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES NUN-B  
 1287B 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES PA-A  
 1287C 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES SI VARIANT 1  
 1287D 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES SIG7 VARIANT 1  
 1287E 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES SU-A  
 1287F 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES SHA  
 12880 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES SHITA-A1  
 12881 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES TI  
 12882 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES U4  
 12883 𒂿 PROTO-CUNEIFORM SIGN LAGAB-A TIMES UB

12884 ○ PROTO-CUNEIFORM SIGN LAGAB-A TIMES X  
 12885 Ⓛ PROTO-CUNEIFORM SIGN LAGAB-A TIMES ZATU753  
 12886 ○ PROTO-CUNEIFORM SIGN LAGAB-A TIMES TWO-N14  
 12887 □ PROTO-CUNEIFORM SIGN LAGAB-B  
 12888 Ⓜ PROTO-CUNEIFORM SIGN LAGAB-B TIMES BANSHUR-A  
 12889 Ⓝ PROTO-CUNEIFORM SIGN LAGAB-B TIMES GAAR-A1  
 1288A Ⓞ PROTO-CUNEIFORM SIGN LAGAB-B TIMES HI  
 1288B Ⓟ PROTO-CUNEIFORM SIGN LAGAB-B TIMES KUR-E  
 1288C Ⓠ PROTO-CUNEIFORM SIGN LAGAB-B TIMES PA-A  
 1288D Ⓡ PROTO-CUNEIFORM SIGN LAGAB-B TIMES SUH3  
 1288E Ⓢ PROTO-CUNEIFORM SIGN LAGAB-B TIMES U4  
 1288F Ⓣ PROTO-CUNEIFORM SIGN LAGAB-B OVER LAGAB-B  
 12890 Ⓤ PROTO-CUNEIFORM SIGN LAGAR-A  
 12891 Ⓥ PROTO-CUNEIFORM SIGN LAGAR-A REVERSED  
 12892 Ⓦ PROTO-CUNEIFORM SIGN LAGAR-B1  
 12893 Ⓧ PROTO-CUNEIFORM SIGN LAGAR-B2  
 12894 Ⓨ PROTO-CUNEIFORM SIGN LAGAR-C  
 12895 Ⓩ PROTO-CUNEIFORM SIGN LAHTAN2  
 12896 ⓐ PROTO-CUNEIFORM SIGN LAL2-A  
 12897 ⓑ PROTO-CUNEIFORM SIGN LAL2-A TIMES EZEN-A VARIANT 1  
 12898 ⓒ PROTO-CUNEIFORM SIGN LAL2-A TIMES NIM-B2  
 12899 ⓓ PROTO-CUNEIFORM SIGN LAL2-B  
 1289A ⓔ PROTO-CUNEIFORM SIGN LAL3-A  
 1289B ⓕ PROTO-CUNEIFORM SIGN LAL3-B  
 1289C ⓖ PROTO-CUNEIFORM SIGN LAM-A  
 1289D ⓗ PROTO-CUNEIFORM SIGN LAM-B  
 1289E ⓘ PROTO-CUNEIFORM SIGN LAM-B VARIANT 1  
 1289F ⓙ PROTO-CUNEIFORM SIGN LAM-B VARIANT 2  
 128A0 ⓚ PROTO-CUNEIFORM SIGN LAM-B REVERSED  
 128A1 ⓛ PROTO-CUNEIFORM SIGN LAM-B SHESHIG  
 128A2 ⓜ PROTO-CUNEIFORM SIGN LAM-B TENU  
 128A3 ⓝ PROTO-CUNEIFORM SIGN LI  
 128A4 ⓞ PROTO-CUNEIFORM SIGN LI VARIANT 1  
 128A5 ⓟ PROTO-CUNEIFORM SIGN LISH  
 128A6 ⓠ PROTO-CUNEIFORM SIGN LU2  
 128A7 ⓡ PROTO-CUNEIFORM SIGN LU2 TIMES GESHTU-C3  
 128A8 ⓢ PROTO-CUNEIFORM SIGN LU2 VARIANT 1  
 128A9 ⓣ PROTO-CUNEIFORM SIGN LU2 VARIANT 2  
 128AA ⓤ PROTO-CUNEIFORM SIGN LUGAL  
 128AB ⓥ PROTO-CUNEIFORM SIGN LUGAL VARIANT 1  
 128AC ⓦ PROTO-CUNEIFORM SIGN LUM  
 128AD ⓧ PROTO-CUNEIFORM SIGN MA  
 128AE ⓨ PROTO-CUNEIFORM SIGN MA TIMES MA  
 128AF ⓩ PROTO-CUNEIFORM SIGN MA TIMES ONE-N58  
 128B0 ⓪ PROTO-CUNEIFORM SIGN MA VARIANT 1  
 128B1 ⓫ PROTO-CUNEIFORM SIGN MA VARIANT 1 TIMES A  
 128B2 ⓬ PROTO-CUNEIFORM SIGN MA2  
 128B3 ⓭ PROTO-CUNEIFORM SIGN MAGUR-A  
 128B4 ⓮ PROTO-CUNEIFORM SIGN MAGUR-B  
 128B5 ⓯ PROTO-CUNEIFORM SIGN MAH-A  
 128B6 ⓰ PROTO-CUNEIFORM SIGN MAH-A TIMES AB2  
 128B7 ⓱ PROTO-CUNEIFORM SIGN MAH-A TIMES GUKKAL-A  
 128B8 ⓲ PROTO-CUNEIFORM SIGN MAH-A TIMES KU6-A  
 128B9 ⓳ PROTO-CUNEIFORM SIGN MAH-A TIMES MASH  
 128BA ⓴ PROTO-CUNEIFORM SIGN MAH-A TIMES NA-A  
 128BB ⓵ PROTO-CUNEIFORM SIGN MAH-A TIMES SILA3-A TIMES UMBIN-A  
 128BC ⓶ PROTO-CUNEIFORM SIGN MAH-A TIMES TUG2-A  
 128BD ⓷ PROTO-CUNEIFORM SIGN MAH-A TIMES UD5-A VARIANT 1  
 128BE ⓸ PROTO-CUNEIFORM SIGN MAH-A TIMES UDU-A  
 128BF ⓹ PROTO-CUNEIFORM SIGN MAH-A TIMES UR-A  
 128C0 ⓺ PROTO-CUNEIFORM SIGN MAH-A TIMES UTUA-A  
 128C1 ⓻ PROTO-CUNEIFORM SIGN MAH-A TIMES X  
 128C2 ⓼ PROTO-CUNEIFORM SIGN MAH-A TIMES ZATU659  
 128C3 ⓽ PROTO-CUNEIFORM SIGN MAH-B  
 128C4 ⓾ PROTO-CUNEIFORM SIGN MAH-B TIMES KU6-A  
 128C5 ⓿ PROTO-CUNEIFORM SIGN MAH-B TIMES MASH  
 128C6 ⓾ PROTO-CUNEIFORM SIGN MAH-B TIMES NA-A

128C7 Ⓛ PROTO-CUNEIFORM SIGN MAH-B TIMES SAL  
 128C8 Ⓜ PROTO-CUNEIFORM SIGN MAR-A  
 128C9 Ⓝ PROTO-CUNEIFORM SIGN MAR-A VARIANT 1  
 128CA Ⓞ PROTO-CUNEIFORM SIGN MAR-A TENU  
 128CB Ⓟ PROTO-CUNEIFORM SIGN MAR-B  
 128CC Ⓠ PROTO-CUNEIFORM SIGN MAR-B TIMES LAGAB-B PLUS SHE3 VARIANT 1  
 128CD Ⓡ PROTO-CUNEIFORM SIGN MAR-B TIMES SHE-A  
 128CE Ⓢ PROTO-CUNEIFORM SIGN MAR-B TIMES X  
 128CF Ⓣ PROTO-CUNEIFORM SIGN MASH  
 128D0 Ⓤ PROTO-CUNEIFORM SIGN MASH2  
 128D1 Ⓥ PROTO-CUNEIFORM SIGN MASH2 GUNU  
 128D2 Ⓦ PROTO-CUNEIFORM SIGN ME-A  
 128D3 Ⓧ PROTO-CUNEIFORM SIGN ME-B  
 128D4 Ⓨ PROTO-CUNEIFORM SIGN ME3  
 128D5 Ⓩ PROTO-CUNEIFORM SIGN MEN-A  
 128D6 ⓐ PROTO-CUNEIFORM SIGN MEN-A VARIANT 1  
 128D7 ⓑ PROTO-CUNEIFORM SIGN MEN-B  
 128D8 ⓒ PROTO-CUNEIFORM SIGN MES  
 128D9 ⓓ PROTO-CUNEIFORM SIGN MES VARIANT 1  
 128DA ⓔ PROTO-CUNEIFORM SIGN MIR-A  
 128DB ⓕ PROTO-CUNEIFORM SIGN MIR-B  
 128DC ⓖ PROTO-CUNEIFORM SIGN MU  
 128DD ⓗ PROTO-CUNEIFORM SIGN MUD  
 128DE ⓘ PROTO-CUNEIFORM SIGN MUD VARIANT 1  
 128DF ⓙ PROTO-CUNEIFORM SIGN MUD3-A  
 128E0 ⓚ PROTO-CUNEIFORM SIGN MUD3-A GUNU  
 128E1 ⓛ PROTO-CUNEIFORM SIGN MUD3-B  
 128E2 ⓜ PROTO-CUNEIFORM SIGN MUD3-C  
 128E3 ⓝ PROTO-CUNEIFORM SIGN MUD3-D  
 128E4 ⓞ PROTO-CUNEIFORM SIGN MUL  
 128E5 ⓟ PROTO-CUNEIFORM SIGN MUN-A1  
 128E6 ⓠ PROTO-CUNEIFORM SIGN MUN-A2  
 128E7 ⓡ PROTO-CUNEIFORM SIGN MUN-A3  
 128E8 ⓢ PROTO-CUNEIFORM SIGN MUN-A4  
 128E9 ⓣ PROTO-CUNEIFORM SIGN MUN-B  
 128EA ⓤ PROTO-CUNEIFORM SIGN MUNSHUB-A  
 128EB ⓥ PROTO-CUNEIFORM SIGN MUNSHUB-B  
 128EC ⓦ PROTO-CUNEIFORM SIGN MUNU3  
 128ED ⓧ PROTO-CUNEIFORM SIGN MURUB2  
 128EE ⓨ PROTO-CUNEIFORM SIGN MUSH  
 128EF ⓩ PROTO-CUNEIFORM SIGN MUSH3-A  
 128F0 ⓪ PROTO-CUNEIFORM SIGN MUSH3-A VARIANT 1  
 128F1 ⓫ PROTO-CUNEIFORM SIGN MUSH3-A VARIANT 2  
 128F2 ⓬ PROTO-CUNEIFORM SIGN MUSH3-A GUNU  
 128F3 ⓭ PROTO-CUNEIFORM SIGN MUSH3-A GUNU VARIANT 1  
 128F4 ⓮ PROTO-CUNEIFORM SIGN MUSH3-B  
 128F5 ⓯ PROTO-CUNEIFORM SIGN MUSHEN  
 128F6 ⓰ PROTO-CUNEIFORM SIGN MUSHEN BESIDE UR3-B2  
 128F7 ⓱ PROTO-CUNEIFORM SIGN MUSHEN TIMES X  
 128F8 ⓲ PROTO-CUNEIFORM SIGN MUSHEN TIMES ONE-N57  
 128F9 ⓳ PROTO-CUNEIFORM SIGN MUSHEN TIMES TWO-N57  
 128FA ⓴ PROTO-CUNEIFORM SIGN MUSHEN TIMES THREE-N57  
 128FB ⓵ PROTO-CUNEIFORM SIGN NA-A  
 128FC ⓶ PROTO-CUNEIFORM SIGN NA-B  
 128FD ⓷ PROTO-CUNEIFORM SIGN NA-C  
 128FE ⓸ PROTO-CUNEIFORM SIGN NA-D  
 128FF ⓹ PROTO-CUNEIFORM SIGN NA2-A  
 12900 ⓺ PROTO-CUNEIFORM SIGN NA2-A VARIANT 1  
 12901 ⓻ PROTO-CUNEIFORM SIGN NA2-B1  
 12902 ⓼ PROTO-CUNEIFORM SIGN NA2-B2  
 12903 \* PROTO-CUNEIFORM SIGN NAB  
 12904 \* PROTO-CUNEIFORM SIGN NAB VARIANT 1  
 12905 \*\* PROTO-CUNEIFORM SIGN NAB VARIANT 2  
 12906 ⓽ PROTO-CUNEIFORM SIGN NAGA-A  
 12907 ⓾ PROTO-CUNEIFORM SIGN NAGA-A TIMES TAK4-A  
 12908 ⓷ PROTO-CUNEIFORM SIGN NAGA-B  
 12909 ⓸ PROTO-CUNEIFORM SIGN NAGAR-A  
 1290A ⓹ PROTO-CUNEIFORM SIGN NAGAR-A VARIANT 1  
 1290B ⓺ PROTO-CUNEIFORM SIGN NAGAR-A VARIANT 2

1290C 𒂔 PROTOKUNIFORM SIGN NAGAR-A VARIANT 3  
 1290D 𒂕 PROTOKUNIFORM SIGN NAGAR-B  
 1290E 𒂖 PROTOKUNIFORM SIGN NAGAR-B VARIANT 1  
 1290F 𒂗 PROTOKUNIFORM SIGN NAM-A  
 12910 𒂘 PROTOKUNIFORM SIGN NAM-B  
 12911 𒂙 PROTOKUNIFORM SIGN NAM-C  
 12912 𒂚 PROTOKUNIFORM SIGN NAM-D  
 12913 𒂛 PROTOKUNIFORM SIGN NAM2  
 12914 𒂜 PROTOKUNIFORM SIGN NAM2 TIMES ONE-N1  
 12915 𒂝 PROTOKUNIFORM SIGN NAM2 GUNU  
 12916 𒂞 PROTOKUNIFORM SIGN NAM2 TENU  
 12917 𒂟 PROTOKUNIFORM SIGN NAMESHDA  
 12918 𒂠 PROTOKUNIFORM SIGN NAMESHDA VARIANT 1  
 12919 𒂡 PROTOKUNIFORM SIGN NANNA-A  
 1291A 𒂢 PROTOKUNIFORM SIGN NANNA-A VARIANT 1  
 1291B 𒂣 PROTOKUNIFORM SIGN NANNA-B  
 1291C 𒂤 PROTOKUNIFORM SIGN NANSHE-A  
 1291D 𒂥 PROTOKUNIFORM SIGN NANSHE-B  
 1291E 𒂦 PROTOKUNIFORM SIGN NAR  
 1291F 𒂧 PROTOKUNIFORM SIGN NE-A  
 12920 𒂨 PROTOKUNIFORM SIGN NE-A VARIANT 1  
 12921 𒂩 PROTOKUNIFORM SIGN NE-A VARIANT 2  
 12922 𒂪 PROTOKUNIFORM SIGN NE-B  
 12923 𒂫 PROTOKUNIFORM SIGN NE-C  
 12924 𒂬 PROTOKUNIFORM SIGN NE-D  
 12925 𒂭 PROTOKUNIFORM SIGN NERGAL-V  
 12926 𒂮 PROTOKUNIFORM SIGN NESAG2-A  
 12927 𒂯 PROTOKUNIFORM SIGN NESAG2-B  
 12928 𒂰 PROTOKUNIFORM SIGN NESAG2-B VARIANT 1  
 12929 𒂱 PROTOKUNIFORM SIGN NESAG2-B TENU  
 1292A 𒂲 PROTOKUNIFORM SIGN NI-A  
 1292B 𒂳 PROTOKUNIFORM SIGN NI-A BESIDE RU VARIANT 1  
 1292C 𒂴 PROTOKUNIFORM SIGN NI-A TIMES ONE-N57  
 1292D 𒂵 PROTOKUNIFORM SIGN NI-A GUNU  
 1292E 𒂶 PROTOKUNIFORM SIGN NI-B  
 1292F 𒂷 PROTOKUNIFORM SIGN NI-B TIMES X  
 12930 𒂸 PROTOKUNIFORM SIGN NI-B TIMES FOUR-N57  
 12931 𒂹 PROTOKUNIFORM SIGN NI2  
 12932 𒂺 PROTOKUNIFORM SIGN NIGIN  
 12933 𒂻 PROTOKUNIFORM SIGN NIM-A  
 12934 𒂼 PROTOKUNIFORM SIGN NIM-B1  
 12935 𒂽 PROTOKUNIFORM SIGN NIM-B2  
 12936 𒂾 PROTOKUNIFORM SIGN NIM-B3  
 12937 𒂿 PROTOKUNIFORM SIGN NIMGIR  
 12938 𒂿 PROTOKUNIFORM SIGN NIMGIR VARIANT 1  
 12939 𒂿 PROTOKUNIFORM SIGN NIN  
 1293A 𒂿 PROTOKUNIFORM SIGN NINDA2  
 1293B 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES AN  
 1293C 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES AN PLUS HI  
 1293D 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES AN PLUS ME-A  
 1293E 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES AN PLUS X  
 1293F 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES BA  
 12940 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES EZEN-B  
 12941 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES GAAR-A1  
 12942 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES GAR  
 12943 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES GISH  
 12944 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES GU4  
 12945 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES HI  
 12946 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES HI PLUS AN PLUS ME-A  
 12947 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES HI PLUS ME-A  
 12948 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES HI PLUS X  
 12949 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES HI-A1 PLUS AN PLUS ME-A  
 1294A 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES HI-A1 PLUS ME-A  
 1294B 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES KASH-B  
 1294C 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES MAR-B  
 1294D 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES U4

1294E 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES U4 PLUS X  
 1294F 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES UDU-A TIMES TAR-A  
 12950 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES UDU-A TIMES TAR-B  
 12951 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES X  
 12952 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES ZATU659 TIMES ONE-N1  
 12953 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES ONE-N1  
 12954 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES TWO-N1  
 12955 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES ONE-N6 PLUS HI GUNU-A  
 12956 𒂿 PROTOKUNIFORM SIGN NINDA2 TIMES ONE-N8  
 12957 𒂿 PROTOKUNIFORM SIGN NINDA2 VARIANT 1  
 12958 𒂿 PROTOKUNIFORM SIGN NINKUM  
 12959 𒂿 PROTOKUNIFORM SIGN NINLIL  
 1295A 𒂿 PROTOKUNIFORM SIGN NIR-A  
 1295B 𒂿 PROTOKUNIFORM SIGN NIR-A TIMES AN  
 1295C 𒂿 PROTOKUNIFORM SIGN NIR-B  
 1295D 𒂿 PROTOKUNIFORM SIGN NU  
 1295E 𒂿 PROTOKUNIFORM SIGN NU GUNU  
 1295F 𒂿 PROTOKUNIFORM SIGN NU11  
 12960 𒂿 PROTOKUNIFORM SIGN NU11 OVER NU11  
 12961 𒂿 PROTOKUNIFORM SIGN NU11 TENU  
 12962 𒂿 PROTOKUNIFORM SIGN NUMUN  
 12963 𒂿 PROTOKUNIFORM SIGN NUMUN2  
 12964 𒂿 PROTOKUNIFORM SIGN NUN-A  
 12965 𒂿 PROTOKUNIFORM SIGN NUN-A JOINING A  
 12966 𒂿 PROTOKUNIFORM SIGN NUN-A JOINING EN-A VARIANT 2  
 12967 𒂿 PROTOKUNIFORM SIGN NUN-A JOINING EN-B VARIANT 1  
 12968 𒂿 PROTOKUNIFORM SIGN NUN-A JOINING EN-D  
 12969 𒂿 PROTOKUNIFORM SIGN NUN-A JOINING NAM2  
 1296A 𒂿 PROTOKUNIFORM SIGN NUN-B  
 1296B 𒂿 PROTOKUNIFORM SIGN NUN-B JOINING EN-A  
 1296C 𒂿 PROTOKUNIFORM SIGN NUN-C  
 1296D 𒂿 PROTOKUNIFORM SIGN NUN-C VARIANT 1  
 1296E 𒂿 PROTOKUNIFORM SIGN NUN-C VARIANT 2  
 1296F 𒂿 PROTOKUNIFORM SIGN NUN-C VARIANT 3  
 12970 𒂿 PROTOKUNIFORM SIGN NUN-D  
 12971 𒂿 PROTOKUNIFORM SIGN NUNUZ-A0  
 12972 𒂿 PROTOKUNIFORM SIGN NUNUZ-A1  
 12973 𒂿 PROTOKUNIFORM SIGN NUNUZ-A1 TENU  
 12974 𒂿 PROTOKUNIFORM SIGN NUNUZ-A2  
 12975 𒂿 PROTOKUNIFORM SIGN NUNUZ-B1  
 12976 𒂿 PROTOKUNIFORM SIGN NUNUZ-B2  
 12977 𒂿 PROTOKUNIFORM SIGN NUNUZ-C  
 12978 𒂿 PROTOKUNIFORM SIGN NUNUZ-C VARIANT 1  
 12979 𒂿 PROTOKUNIFORM SIGN NUNUZ-C VARIANT 2  
 1297A 𒂿 PROTOKUNIFORM SIGN NUNUZ-C VARIANT 3  
 1297B 𒂿 PROTOKUNIFORM SIGN PA-A  
 1297C 𒂿 PROTOKUNIFORM SIGN PA-A VARIANT 1  
 1297D 𒂿 PROTOKUNIFORM SIGN PA-A VARIANT 2  
 1297E 𒂿 PROTOKUNIFORM SIGN PA-B  
 1297F 𒂿 PROTOKUNIFORM SIGN PAD-A  
 12980 𒂿 PROTOKUNIFORM SIGN PAD-B  
 12981 𒂿 PROTOKUNIFORM SIGN PAP-A  
 12982 𒂿 PROTOKUNIFORM SIGN PAP-A TENU  
 12983 𒂿 PROTOKUNIFORM SIGN PAP-B  
 12984 𒂿 PROTOKUNIFORM SIGN PAP-B VARIANT 1  
 12985 𒂿 PROTOKUNIFORM SIGN PIRIG-A1  
 12986 𒂿 PROTOKUNIFORM SIGN PIRIG-A2  
 12987 𒂿 PROTOKUNIFORM SIGN PIRIG-A3  
 12988 𒂿 PROTOKUNIFORM SIGN PIRIG-B1  
 12989 𒂿 PROTOKUNIFORM SIGN PIRIG-B1 TIMES UR2  
 1298A 𒂿 PROTOKUNIFORM SIGN PIRIG-B2  
 1298B ⦿ PROTOKUNIFORM SIGN PU2  
 1298C ⦿ PROTOKUNIFORM SIGN RA  
 1298D ⦿ PROTOKUNIFORM SIGN RAD-A  
 1298E ⦿ PROTOKUNIFORM SIGN RAD-A GUNU

1298F	◁ PROTO-CUNEIFORM SIGN RAD-A TENU	129D1	◐ PROTO-CUNEIFORM SIGN SIG2-E
12990	▷ PROTO-CUNEIFORM SIGN RAD-B	129D2	◐ PROTO-CUNEIFORM SIGN SIG4
12991	☒ PROTO-CUNEIFORM SIGN RI8-A	129D3	◀ PROTO-CUNEIFORM SIGN SIG7
12992	☒ PROTO-CUNEIFORM SIGN RI8-B	129D4	☒ PROTO-CUNEIFORM SIGN SIG7 VARIANT 1
12993	▷ PROTO-CUNEIFORM SIGN RU	129D5	▷ PROTO-CUNEIFORM SIGN SILA3-A
12994	▷ PROTO-CUNEIFORM SIGN RU VARIANT 1	129D6	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES A
12995	▷ PROTO-CUNEIFORM SIGN RU TENU	129D7	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES AMAR
12996	☒ PROTO-CUNEIFORM SIGN SA-A	129D8	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES DUG-A VARIANT 1
12997	☒ PROTO-CUNEIFORM SIGN SA-C	129D9	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES GA-A VARIANT 3
12998	☒ PROTO-CUNEIFORM SIGN SA-C VARIANT 1	129DA	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES GARA2-A
12999	☒ PROTO-CUNEIFORM SIGN SAG	129DB	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES GESHTU-A VARIANT 2
1299A	☒ PROTO-CUNEIFORM SIGN SAG TIMES GESHTU-A	129DC	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES GESHTU-C3
1299B	☒ PROTO-CUNEIFORM SIGN SAG VARIANT 1	129DD	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES GESHTU-C5
1299C	☒ PROTO-CUNEIFORM SIGN SAG VARIANT 1 TIMES GESHTU-C	129DE	☒ PROTO-CUNEIFORM SIGN SILA3-A TIMES HASHHUR
1299D	☒ PROTO-CUNEIFORM SIGN SAG VARIANT 1 TIMES MA VARIANT 1	129DF	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES HI
1299E	☒ PROTO-CUNEIFORM SIGN SAG VARIANT 1 TIMES ONE-N14	129E0	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES HI GUNU-A
1299F	☒ PROTO-CUNEIFORM SIGN SAG VARIANT 2	129E1	☒ PROTO-CUNEIFORM SIGN SILA3-A TIMES IB-A
129A0	☒ PROTO-CUNEIFORM SIGN SAG VARIANT 2 TIMES GESHTU-B	129E2	☒ PROTO-CUNEIFORM SIGN SILA3-A TIMES KASH-A
129A1	☒ PROTO-CUNEIFORM SIGN SAG GUNU	129E3	☒ PROTO-CUNEIFORM SIGN SILA3-A TIMES KASH-C
129A2	☒ PROTO-CUNEIFORM SIGN SAG NUTILLU	129E4	☒ PROTO-CUNEIFORM SIGN SILA3-A TIMES KASH-D
129A3	☒ PROTO-CUNEIFORM SIGN SAG NUTILLU TIMES GESHTU-B	129E5	☒ PROTO-CUNEIFORM SIGN SILA3-A TIMES KU6-A
129A4	☒ PROTO-CUNEIFORM SIGN SAGSHU	129E6	☒ PROTO-CUNEIFORM SIGN SILA3-A TIMES KUR-A
129A5	▷ PROTO-CUNEIFORM SIGN SAL	129E7	☒ PROTO-CUNEIFORM SIGN SILA3-A TIMES MA VARIANT 1
129A6	▷ PROTO-CUNEIFORM SIGN SAL BESIDE KUR-A	129E8	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES MASH
129A7	▷ PROTO-CUNEIFORM SIGN SAL BESIDE LAM-B	129E9	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES NAGA-A
129A8	▷ PROTO-CUNEIFORM SIGN SAL BESIDE SHU2-B	129EA	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES NI-A
129A9	▷ PROTO-CUNEIFORM SIGN SAL TIMES ONE-N58	129EB	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES NUN-B
129AA	☒ PROTO-CUNEIFORM SIGN SANGA-A	129EC	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES SUHUR
129AB	☒ PROTO-CUNEIFORM SIGN SANGA-A VARIANT 1	129ED	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES SUM-A VARIANT 1
129AC	☒ PROTO-CUNEIFORM SIGN SANGA-A VARIANT 2	129EE	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES SUM-B
129AD	☒ PROTO-CUNEIFORM SIGN SANGA-B	129EF	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES SHE-A
129AE	☒ PROTO-CUNEIFORM SIGN SANGA-B VARIANT 1	129F0	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES SHE-A TENU
129AF	☒ PROTO-CUNEIFORM SIGN SANGA-C	129F1	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES SHU
129B0	☒ PROTO-CUNEIFORM SIGN SAR-A	129F2	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES SHU2-B
129B1	☒ PROTO-CUNEIFORM SIGN SAR-A TIMES SHE-A	129F3	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES X
129B2	☒ PROTO-CUNEIFORM SIGN SAR-B	129F4	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES ZATU629 VARIANT 1
129B3	☒ PROTO-CUNEIFORM SIGN SAR-C	129F5	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES ZATU646
129B4	▷ PROTO-CUNEIFORM SIGN SI	129F6	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES ZATU659 PLUS TU-C VARIANT 1
129B5	☒ PROTO-CUNEIFORM SIGN SI TIMES GU4	129F7	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES ONE-N57
129B6	▷ PROTO-CUNEIFORM SIGN SI TIMES SHE3 VARIANT 1	129F8	▷ PROTO-CUNEIFORM SIGN SILA3-A TIMES ONE-N58
129B7	▷ PROTO-CUNEIFORM SIGN SI VARIANT 1	129F9	▷ PROTO-CUNEIFORM SIGN SILA3-A VARIANT 1 TIMES DUG-A
129B8	▷ PROTO-CUNEIFORM SIGN SI4-A	129FA	▷ PROTO-CUNEIFORM SIGN SILA3-B
129B9	▷ PROTO-CUNEIFORM SIGN SI4-B	129FB	▷ PROTO-CUNEIFORM SIGN SILA3-B TIMES GUG2
129BA	▷ PROTO-CUNEIFORM SIGN SI4-C	129FC	▷ PROTO-CUNEIFORM SIGN SILA3-B TIMES NAGA-B
129BB	▷ PROTO-CUNEIFORM SIGN SI4-D	129FD	▷ PROTO-CUNEIFORM SIGN SILA3-B TIMES NI-B
129BC	☒ PROTO-CUNEIFORM SIGN SI4-D VARIANT 1	129FE	▷ PROTO-CUNEIFORM SIGN SILA3-C
129BD	▷ PROTO-CUNEIFORM SIGN SI4-F	129FF	▷ PROTO-CUNEIFORM SIGN SILA3-C TIMES NI-A
129BE	▷ PROTO-CUNEIFORM SIGN SI4-F VARIANT 1	12A00	▷ PROTO-CUNEIFORM SIGN SILA3-C TIMES SHU
129BF	▷ PROTO-CUNEIFORM SIGN SIG	12A01	▷ PROTO-CUNEIFORM SIGN SILA3-C TIMES ZATU687
129C0	▷ PROTO-CUNEIFORM SIGN SIG GUNU	12A02	▷ PROTO-CUNEIFORM SIGN SILA3-D TIMES NI-A
129C1	● PROTO-CUNEIFORM SIGN SIG2-A1	12A03	☒ PROTO-CUNEIFORM SIGN SILA4-A
129C2	☒ PROTO-CUNEIFORM SIGN SIG2-A2	12A04	☒ PROTO-CUNEIFORM SIGN SILA4-B
129C3	● PROTO-CUNEIFORM SIGN SIG2-A3	12A05	● PROTO-CUNEIFORM SIGN SILA4-C
129C4	● PROTO-CUNEIFORM SIGN SIG2-A3 VARIANT 1	12A06	☒ PROTO-CUNEIFORM SIGN SILA4-D
129C5	☒ PROTO-CUNEIFORM SIGN SIG2-A3 VARIANT 2	12A07	☒ PROTO-CUNEIFORM SIGN SILANITA
129C6	☒ PROTO-CUNEIFORM SIGN SIG2-A4	12A08	☒ PROTO-CUNEIFORM SIGN SIMUG
129C7	● PROTO-CUNEIFORM SIGN SIG2-B	12A09	☒ PROTO-CUNEIFORM SIGN SIMUG VARIANT 1
129C8	● PROTO-CUNEIFORM SIGN SIG2-B TIMES ONE-N14	12A0A	± PROTO-CUNEIFORM SIGN SIPA
129C9	☒ PROTO-CUNEIFORM SIGN SIG2-B OVER SIG2-B	12A0B	▷ PROTO-CUNEIFORM SIGN SU-A
129CA	☒ PROTO-CUNEIFORM SIGN SIG2-C1	12A0C	▷ PROTO-CUNEIFORM SIGN SU-A TIMES ONE-N58
129CB	☒ PROTO-CUNEIFORM SIGN SIG2-C2	12A0D	▷ PROTO-CUNEIFORM SIGN SU-A VARIANT 1
129CC	☒ PROTO-CUNEIFORM SIGN SIG2-D1	12A0E	▷ PROTO-CUNEIFORM SIGN SU-B
129CD	☒ PROTO-CUNEIFORM SIGN SIG2-D2	12A0F	← PROTO-CUNEIFORM SIGN SU3
129CE	▷ PROTO-CUNEIFORM SIGN SIG2-D2 VARIANT 1	12A10	◑ PROTO-CUNEIFORM SIGN SUG
129CF	☒ PROTO-CUNEIFORM SIGN SIG2-D3		
129D0	☒ PROTO-CUNEIFORM SIGN SIG2-D4		

12A11 𒊕 PROTO-CUNEIFORM SIGN SUG5  
 12A12 𒊗 PROTO-CUNEIFORM SIGN SUH3  
 12A13 𒊗 PROTO-CUNEIFORM SIGN SUHUR  
 12A14 𒊗 PROTO-CUNEIFORM SIGN SUHUR GUNU  
 12A15 𒊗 PROTO-CUNEIFORM SIGN SUHUR NUTILLU  
 12A16 𒂔 PROTO-CUNEIFORM SIGN SUKKAL  
 12A17 𒊗 PROTO-CUNEIFORM SIGN SUKUD  
 12A18 𒂔 PROTO-CUNEIFORM SIGN SUKUD JOINING SUKUD FORM A  
 12A19 𒂔 PROTO-CUNEIFORM SIGN SUKUD JOINING SUKUD FORM B  
 12A1A 𒂔 PROTO-CUNEIFORM SIGN SUKUD JOINING SUKUD FORM D  
 12A1B 𒊗 PROTO-CUNEIFORM SIGN SUKUD GUNU-A  
 12A1C 𒂔 PROTO-CUNEIFORM SIGN SUKUD GUNU-B  
 12A1D 𒂔 PROTO-CUNEIFORM SIGN SUKUD GUNU-B VARIANT 1  
 12A1E 𒊗 PROTO-CUNEIFORM SIGN SUKUD GUNU-C  
 12A1F 𒊗 PROTO-CUNEIFORM SIGN SUKUD GUNU-D  
 12A20 𒂔 PROTO-CUNEIFORM SIGN SUM-A  
 12A21 𒂔 PROTO-CUNEIFORM SIGN SUM-A VARIANT 1  
 12A22 𒂔 PROTO-CUNEIFORM SIGN SUM-A TENU  
 12A23 𒂔 PROTO-CUNEIFORM SIGN SUM-B  
 12A24 𒊗 PROTO-CUNEIFORM SIGN SUMASH  
 12A25 𒃲 PROTO-CUNEIFORM SIGN SUR  
 12A26 𒃲 PROTO-CUNEIFORM SIGN SUSA  
 12A27 𒂔 PROTO-CUNEIFORM SIGN SHA  
 12A28 𒂔 PROTO-CUNEIFORM SIGN SHA TIMES HI GUNU-A FORM A  
 12A29 𒂔 PROTO-CUNEIFORM SIGN SHA TIMES HI GUNU-A FORM B  
 12A2A 𒂔 PROTO-CUNEIFORM SIGN SHA VARIANT 1  
 12A2B 𒂔 PROTO-CUNEIFORM SIGN SHA VARIANT 2  
 12A2C 𒂔 PROTO-CUNEIFORM SIGN SHA GUNU  
 12A2D 𒂔 PROTO-CUNEIFORM SIGN SHA3-A1  
 12A2E 𒂔 PROTO-CUNEIFORM SIGN SHA3-A2  
 12A2F 𒂔 PROTO-CUNEIFORM SIGN SHA3-B  
 12A30 𒂔 PROTO-CUNEIFORM SIGN SHA3-C  
 12A31 𒂔 PROTO-CUNEIFORM SIGN SHA3-D  
 12A32 𒂔 PROTO-CUNEIFORM SIGN SHAB-A  
 12A33 𒂔 PROTO-CUNEIFORM SIGN SHAB-A VARIANT 1  
 12A34 𒂔 PROTO-CUNEIFORM SIGN SHAB-B  
 12A35 𒂔 PROTO-CUNEIFORM SIGN SHAB-B VARIANT 1  
 12A36 𒂔 PROTO-CUNEIFORM SIGN SHAGAN  
 12A37 𒂔 PROTO-CUNEIFORM SIGN SHAGAN VARIANT 1  
 12A38 𒂔 PROTO-CUNEIFORM SIGN SHAGINA  
 12A39 𒂔 PROTO-CUNEIFORM SIGN SHAH2-A  
 12A3A 𒂔 PROTO-CUNEIFORM SIGN SHAH2-B  
 12A3B 𒂔 PROTO-CUNEIFORM SIGN SHAH2-C  
 12A3C 𒂔 PROTO-CUNEIFORM SIGN SHAKIR-A  
 12A3D 𒂔 PROTO-CUNEIFORM SIGN SHAKIR-B  
 12A3E 𒂔 PROTO-CUNEIFORM SIGN SHAKIR-C  
 12A3F 𒂔 PROTO-CUNEIFORM SIGN SHAM2  
 12A40 𒂔 PROTO-CUNEIFORM SIGN SHANDANA-A  
 12A41 𒂔 PROTO-CUNEIFORM SIGN SHANDANA-B  
 12A42 𒂔 PROTO-CUNEIFORM SIGN SHE-A  
 12A43 𒂔 PROTO-CUNEIFORM SIGN SHE-A BESIDE KIN2-C  
 12A44 𒂔 PROTO-CUNEIFORM SIGN SHE-A BESIDE NAM2  
 12A45 𒂔 PROTO-CUNEIFORM SIGN SHE-A BESIDE NAM2 VARIANT 1  
 12A46 𒂔 PROTO-CUNEIFORM SIGN SHE-A OVER SHE-A  
 12A47 𒂔 PROTO-CUNEIFORM SIGN SHE-A TENU  
 12A48 𒂔 PROTO-CUNEIFORM SIGN SHE-B  
 12A49 𒂔 PROTO-CUNEIFORM SIGN SHE-C  
 12A4A 𒂔 PROTO-CUNEIFORM SIGN SHE3  
 12A4B 𒂔 PROTO-CUNEIFORM SIGN SHE3 VARIANT 1  
 12A4C 𒂔 PROTO-CUNEIFORM SIGN SHE3 TENU  
 12A4D 𒂔 PROTO-CUNEIFORM SIGN SHE3 TENU VARIANT 1  
 12A4E 𒂔 PROTO-CUNEIFORM SIGN SHEG9  
 12A4F 𒂔 PROTO-CUNEIFORM SIGN SHELU  
 12A50 𒂔 PROTO-CUNEIFORM SIGN SHEN-A  
 12A51 𒂔 PROTO-CUNEIFORM SIGN SHEN-A VARIANT 1

12A52 𒂔 PROTO-CUNEIFORM SIGN SHEN-B  
 12A53 𒂔 PROTO-CUNEIFORM SIGN SHEN-B VARIANT 1  
 12A54 𒂔 PROTO-CUNEIFORM SIGN SHEN-C  
 12A55 𒂔 PROTO-CUNEIFORM SIGN SHEN-C TENU  
 12A56 𒂔 PROTO-CUNEIFORM SIGN SHEN-D  
 12A57 𒂔 PROTO-CUNEIFORM SIGN SHEN-D TIMES A  
 12A58 𒂔 PROTO-CUNEIFORM SIGN SHEN-D VARIANT 1  
 12A59 𒂔 PROTO-CUNEIFORM SIGN SHEN-D VARIANT 2  
 12A5A 𒂔 PROTO-CUNEIFORM SIGN SHEN-E  
 12A5B 𒂔 PROTO-CUNEIFORM SIGN SHENNUR-A  
 12A5C 𒂔 PROTO-CUNEIFORM SIGN SHENNUR-B  
 12A5D 𒂔 PROTO-CUNEIFORM SIGN SHESH-A  
 12A5E 𒂔 PROTO-CUNEIFORM SIGN SHESH-A VARIANT 1  
 12A5F 𒂔 PROTO-CUNEIFORM SIGN SHESH-B  
 12A60 𒂔 PROTO-CUNEIFORM SIGN SHIDIM  
 12A61 𒂔 PROTO-CUNEIFORM SIGN SHIDIM TENU  
 12A62 𒂔 PROTO-CUNEIFORM SIGN SHIM-A  
 12A63 𒂔 PROTO-CUNEIFORM SIGN SHIM-A VARIANT 1  
 12A64 𒂔 PROTO-CUNEIFORM SIGN SHIM-A VARIANT 2  
 12A65 𒂔 PROTO-CUNEIFORM SIGN SHIM-B  
 12A66 𒂔 PROTO-CUNEIFORM SIGN SHIR-A  
 12A67 𒂔 PROTO-CUNEIFORM SIGN SHIR-A VARIANT 1  
 12A68 𒂔 PROTO-CUNEIFORM SIGN SHIR-B  
 12A69 𒂔 PROTO-CUNEIFORM SIGN SHIR-B VARIANT 1  
 12A6A 𒂔 PROTO-CUNEIFORM SIGN SHIR-B VARIANT 2  
 12A6B 𒂔 PROTO-CUNEIFORM SIGN SHITA-A1  
 12A6C 𒂔 PROTO-CUNEIFORM SIGN SHITA-A1 TIMES KAK-A  
 12A6D 𒂔 PROTO-CUNEIFORM SIGN SHITA-A1 TIMES SHU  
 12A6E 𒂔 PROTO-CUNEIFORM SIGN SHITA-A1 TIMES SHU2-B  
 12A6F 𒂔 PROTO-CUNEIFORM SIGN SHITA-A1 TIMES UDU-A  
 12A70 𒂔 PROTO-CUNEIFORM SIGN SHITA-A1 TIMES ONE-N6  
 12A71 𒂔 PROTO-CUNEIFORM SIGN SHITA-A1 GUNU  
 12A72 𒂔 PROTO-CUNEIFORM SIGN SHITA-A2  
 12A73 𒂔 PROTO-CUNEIFORM SIGN SHITA-A3  
 12A74 𒂔 PROTO-CUNEIFORM SIGN SHITA-B1  
 12A75 𒂔 PROTO-CUNEIFORM SIGN SHITA-B1 GUNU  
 12A76 𒂔 PROTO-CUNEIFORM SIGN SHITA-B2  
 12A77 𒂔 PROTO-CUNEIFORM SIGN SHITA-B2 GUNU TIMES HI GUNU-A  
 12A78 𒂔 PROTO-CUNEIFORM SIGN SHITA-B3  
 12A79 𒂔 PROTO-CUNEIFORM SIGN SHITA-B3 TIMES NAM2  
 12A7A 𒂔 PROTO-CUNEIFORM SIGN SHITA-B3 GUNU  
 12A7B 𒂔 PROTO-CUNEIFORM SIGN SHITA-B3 GUNU TIMES ONE-N4  
 12A7C 𒂔 PROTO-CUNEIFORM SIGN SHITA-B3 GUNU TIMES ONE-N6  
 12A7D 𒂔 PROTO-CUNEIFORM SIGN SHU  
 12A7E 𒂔 PROTO-CUNEIFORM SIGN SHU TIMES ONE-N58  
 12A7F 𒂔 PROTO-CUNEIFORM SIGN SHU OVER SHU  
 12A80 𒂔 PROTO-CUNEIFORM SIGN SHU GUNU  
 12A81 ՚ PROTO-CUNEIFORM SIGN SHU2-A  
 12A82 ՚ PROTO-CUNEIFORM SIGN SHU2-A BESIDE AN  
 12A83 ՚ PROTO-CUNEIFORM SIGN SHU2-A BESIDE EN-A VARIANT 1  
 12A84 ՚ PROTO-CUNEIFORM SIGN SHU2-A BESIDE EN-A VARIANT 2  
 12A85 ՚ PROTO-CUNEIFORM SIGN SHU2-A BESIDE EN-B VARIANT 1  
 12A86 ՚ PROTO-CUNEIFORM SIGN SHU2-A BESIDE HI TIMES ONE-N57 OVER HI TIMES ONE-N57  
 12A87 ՚ PROTO-CUNEIFORM SIGN SHU2-A BESIDE UR3-A VARIANT 1  
 12A88 ՚ PROTO-CUNEIFORM SIGN SHU2-B  
 12A89 ՚ PROTO-CUNEIFORM SIGN SHU2-B BESIDE E2-A  
 12A8A ՚ PROTO-CUNEIFORM SIGN SHU2-B BESIDE E2-B  
 12A8B ՚ PROTO-CUNEIFORM SIGN SHU2-B BESIDE GISH  
 12A8C ՚ PROTO-CUNEIFORM SIGN SHU2-B BESIDE ONE-N2  
 12A8D ՚ PROTO-CUNEIFORM SIGN SHU12  
 12A8E ՚ PROTO-CUNEIFORM SIGN SHUBUR  
 12A8F ՚ PROTO-CUNEIFORM SIGN SHUM  
 12A90 ՚ PROTO-CUNEIFORM SIGN SHUR2-A  
 12A91 ՚ PROTO-CUNEIFORM SIGN SHUR2-B

12A92 ܚ PROTO-CUNEIFORM SIGN SHURUPPAK-A  
 12A93 ܚ PROTO-CUNEIFORM SIGN SHURUPPAK-A VARIANT 1  
 12A94 ܗ PROTO-CUNEIFORM SIGN SHURUPPAK-B  
 12A95 ܗ PROTO-CUNEIFORM SIGN SHURUPPAK-B VARIANT 1  
 12A96 ܵ PROTO-CUNEIFORM SIGN TA-A  
 12A97 ܵ PROTO-CUNEIFORM SIGN TA-B  
 12A98 ܵ PROTO-CUNEIFORM SIGN TA-C  
 12A99 ܵ PROTO-CUNEIFORM SIGN TA-D  
 12A9A ܵܵ PROTO-CUNEIFORM SIGN TA-D TIMES MASH  
 12A9B ܵܵ PROTO-CUNEIFORM SIGN TA-E  
 12A9C ܵܵ PROTO-CUNEIFORM SIGN TAG-A1  
 12A9D ܵܵ PROTO-CUNEIFORM SIGN TAG-A1 TENU  
 12A9E ܵܵ PROTO-CUNEIFORM SIGN TAG-A2  
 12A9F ܵܵ PROTO-CUNEIFORM SIGN TAG-A3  
 12AA0 ܵܵ PROTO-CUNEIFORM SIGN TAG-A4  
 12AA1 ܵܵ PROTO-CUNEIFORM SIGN TAG-B  
 12AA2 ܵܵ PROTO-CUNEIFORM SIGN TAG-C  
 12AA3 ܵܵ PROTO-CUNEIFORM SIGN TAG-D  
 12AA4 ܵܵ PROTO-CUNEIFORM SIGN TAK4-A  
 12AA5 ܵܵ PROTO-CUNEIFORM SIGN TAK4-A VARIANT 1  
 12AA6 ܵܵ PROTO-CUNEIFORM SIGN TAK4-A NUTILLU  
 12AA7 ܵܵ PROTO-CUNEIFORM SIGN TAK4-C  
 12AA8 ܵܵ PROTO-CUNEIFORM SIGN TAR-A  
 12AA9 ܵܵ PROTO-CUNEIFORM SIGN TE  
 12AAA ܵܵ PROTO-CUNEIFORM SIGN TI  
 12AAB ܵܵ PROTO-CUNEIFORM SIGN TI VARIANT 1  
 12AAC ܵܵ PROTO-CUNEIFORM SIGN TI GUNU  
 12AAD ܵܵ PROTO-CUNEIFORM SIGN TI REVERSED  
 12AAE ܵܵ PROTO-CUNEIFORM SIGN TI TENU  
 12AAF ܵܵ PROTO-CUNEIFORM SIGN TIDNUM  
 12AB0 ܵܵ PROTO-CUNEIFORM SIGN TILLA2  
 12AB1 ܵܵ PROTO-CUNEIFORM SIGN TU-A  
 12AB2 ܵܵ PROTO-CUNEIFORM SIGN TU-B  
 12AB3 ܵܵ PROTO-CUNEIFORM SIGN TU-C  
 12AB4 ܵܵ PROTO-CUNEIFORM SIGN TUG2-A  
 12AB5 ܵܵ PROTO-CUNEIFORM SIGN TUG2-A BESIDE BAD OVER  
BAD  
 12AB6 ܵܵ PROTO-CUNEIFORM SIGN TUG2-A GUNU  
 12AB7 ܵܵ PROTO-CUNEIFORM SIGN TUG2-A GUNU VARIANT 1  
 12AB8 ܵܵ PROTO-CUNEIFORM SIGN TUG2-B  
 12AB9 ܵܵ PROTO-CUNEIFORM SIGN TUG2-C  
 12ABA ܵܵ PROTO-CUNEIFORM SIGN TUG2-D  
 12ABB ܵܵ PROTO-CUNEIFORM SIGN TUM-A  
 12ABC ܵܵ PROTO-CUNEIFORM SIGN TUM-A GUNU  
 12ABD ܵܵ PROTO-CUNEIFORM SIGN TUM-B  
 12ABE ܵܵ PROTO-CUNEIFORM SIGN TUM-C  
 12ABF ܵܵ PROTO-CUNEIFORM SIGN TUM-D  
 12AC0 ܵܵ PROTO-CUNEIFORM SIGN TUN3-A  
 12AC1 ܵܵ PROTO-CUNEIFORM SIGN TUN3-B  
 12AC2 ܵܵ PROTO-CUNEIFORM SIGN TUN3-C  
 12AC3 ܵܵ PROTO-CUNEIFORM SIGN TUR  
 12AC4 ܵܵ PROTO-CUNEIFORM SIGN TUR VARIANT 1  
 12AC5 ܵܵ PROTO-CUNEIFORM SIGN TUR VARIANT 2  
 12AC6 ܵܵ PROTO-CUNEIFORM SIGN TUR VARIANT 3  
 12AC7 ܵܵ PROTO-CUNEIFORM SIGN TUR GUNU  
 12AC8 ܵܵ PROTO-CUNEIFORM SIGN TUR3-A  
 12AC9 ܵܵ PROTO-CUNEIFORM SIGN TUR3-A NUTILLU  
 12ACA ܵܵ PROTO-CUNEIFORM SIGN TUR3-B  
 12ACB ܵܵ PROTO-CUNEIFORM SIGN TUR3-C  
 12ACC ܵܵ PROTO-CUNEIFORM SIGN U2-A  
 12ACD ܵܵ PROTO-CUNEIFORM SIGN U2-B  
 12ACE ܵܵ PROTO-CUNEIFORM SIGN U2-B VARIANT 1  
 12ACF ܵܵ PROTO-CUNEIFORM SIGN U2-B VARIANT 2  
 12AD0 ܵܵ PROTO-CUNEIFORM SIGN U2-C  
 12AD1 ܵܵ PROTO-CUNEIFORM SIGN U4  
 12AD2 ܵܵ PROTO-CUNEIFORM SIGN U4 BESIDE SHU2-B  
 12AD3 ܵܵ PROTO-CUNEIFORM SIGN U4 BESIDE ONE-N8  
 12AD4 ܵܵ PROTO-CUNEIFORM SIGN U4 BESIDE TWO-N8  
 12AD5 ܵܵ PROTO-CUNEIFORM SIGN U4 BESIDE THREE-N8

12AD6 ܵܵ PROTO-CUNEIFORM SIGN U4 BESIDE FOUR-N8  
VARIANT 1  
 12AD7 ܵܵ PROTO-CUNEIFORM SIGN U4 BESIDE FIVE-N8  
 12AD8 ܵܵ PROTO-CUNEIFORM SIGN U4 BESIDE SIX-N8  
 12AD9 ܵܵ PROTO-CUNEIFORM SIGN U4 BESIDE SEVEN-N8  
 12ADA ܵܵ PROTO-CUNEIFORM SIGN U4 BESIDE EIGHT-N8  
 12ADB ܵܵ PROTO-CUNEIFORM SIGN U4 BESIDE ONE-N14  
 12ADC ܵܵ PROTO-CUNEIFORM SIGN U4 BESIDE ONE-N14 PLUS  
THREE-N8  
 12ADD ܵܵ PROTO-CUNEIFORM SIGN U4 BESIDE ONE-N14 PLUS  
FOUR-N8  
 12ADE ܵܵ PROTO-CUNEIFORM SIGN U4 BESIDE ONE-N14 PLUS  
FIVE-N8  
 12ADF ܵܵ PROTO-CUNEIFORM SIGN U4 BESIDE ONE-N14 PLUS  
EIGHT-N8  
 12AE0 ܵܵ PROTO-CUNEIFORM SIGN U4 BESIDE TWO-N14  
 12AE1 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES X  
 12AE2 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES X JOINING  
TWO-N1  
 12AE3 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES ONE-N1  
 12AE4 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES ONE-N1 BESIDE  
FIVE-N8  
 12AE5 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES TWO-N1  
 12AE6 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES TWO-N1 BESIDE X  
 12AE7 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES TWO-N1 BESIDE  
TWO-N14  
 12AE8 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES TWO-N1 BESIDE  
TWO-N14 PLUS ONE-N8  
 12AE9 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES THREE-N1  
 12AEA ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES THREE-N1 BESIDE  
THREE-N8 VARIANT 1  
 12AEB ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES FOUR-N1  
 12AEC ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES FOUR-N1 BESIDE  
TWO-N14  
 12AED ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES FIVE-N1  
 12AEE ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES FIVE-N1 BESIDE  
ONE-N14  
 12AEF ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES SIX-N1  
 12AF0 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES EIGHT-N1  
 12AF1 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES EIGHT-N1  
BESIDE X  
 12AF2 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES N-N1  
 12AF3 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES ONE-N14  
 12AF4 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES ONE-N14 PLUS  
TWO-N1  
 12AF5 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES ONE-N14 PLUS  
FOUR-N1  
 12AF6 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES ONE-N14 PLUS  
EIGHT-N1  
 12AF7 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES TWO-N14  
 12AF8 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES TWO-N14 PLUS  
FOUR-N1  
 12AF9 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES THREE-N14 PLUS  
TWO-N1  
 12AFA ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES THREE-N14 PLUS  
SEVEN-N1  
 12AFB ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES ONE-N57  
 12AFC ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES TWO-N57  
 12AFD ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES THREE-N57  
 12AFE ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES FOUR-N57  
 12AFF ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES FIVE-N57  
 12B00 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES SIX-N57  
 12B01 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES SEVEN-N57  
 12B02 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES EIGHT-N57  
 12B03 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES TEN-N57  
 12B04 ܵܵ PROTO-CUNEIFORM SIGN U4 TIMES ONE-N58 TENU  
 12B05 ܵܵ PROTO-CUNEIFORM SIGN U4 TENU  
 12B06 ܵܵ PROTO-CUNEIFORM SIGN U8  
 12B07 ܵܵ PROTO-CUNEIFORM SIGN U8 TIMES TAR-B  
 12B08 ܵܵ PROTO-CUNEIFORM SIGN U8 VARIANT 1  
 12B09 ܵܵ PROTO-CUNEIFORM SIGN U8 VARIANT 2  
 12B0A ܵܵ PROTO-CUNEIFORM SIGN U8 VARIANT 3  
 12B0B ܵܵ PROTO-CUNEIFORM SIGN UB  
 12B0C ܵܵ PROTO-CUNEIFORM SIGN UBI-A

12B0D	proto-cuneiform sign ubi-c
12B0E	proto-cuneiform sign ubi-c variant 1
12B0F	proto-cuneiform sign ud5-a
12B10	proto-cuneiform sign ud5-a variant 1
12B11	proto-cuneiform sign ud5-a variant 2
12B12	proto-cuneiform sign ud5-a gunu
12B13	proto-cuneiform sign ud5-b
12B14	proto-cuneiform sign ud5-c
12B15	proto-cuneiform sign udu-a
12B16	proto-cuneiform sign udu-a times tar-a
12B17	proto-cuneiform sign udu-a times tar-b
12B18	proto-cuneiform sign udu-b
12B19	proto-cuneiform sign udu-c
12B1A	proto-cuneiform sign udunita-a
12B1B	proto-cuneiform sign udunita-b
12B1C	proto-cuneiform sign udunita-c
12B1D	proto-cuneiform sign uh
12B1E	proto-cuneiform sign uh3-a
12B1F	proto-cuneiform sign uh3-a tenu
12B20	proto-cuneiform sign uh3-b
12B21	proto-cuneiform sign ukkin-a
12B22	proto-cuneiform sign ukkin-a variant 1
12B23	proto-cuneiform sign ukkin-b
12B24	proto-cuneiform sign ukkin-b times din
12B25	proto-cuneiform sign ukkin-b times din plus one-n1
12B26	proto-cuneiform sign ukkin-b times hi gunu-a
12B27	proto-cuneiform sign ukkin-b times ni-a
12B28	proto-cuneiform sign ukkin-b times x
12B29	proto-cuneiform sign ukkin-b times two-n1
12B2A	proto-cuneiform sign ukkin-b times three-n1
12B2B	proto-cuneiform sign ukkin-b times five-n1
12B2C	proto-cuneiform sign ukkin-b variant 1
12B2D	proto-cuneiform sign ukkin-c
12B2E	proto-cuneiform sign umbin-a
12B2F	proto-cuneiform sign umbin-b1
12B30	proto-cuneiform sign umbin-b2
12B31	proto-cuneiform sign umbin-c
12B32	proto-cuneiform sign umun2
12B33	proto-cuneiform sign umun2 variant 1
12B34	proto-cuneiform sign unug-a
12B35	proto-cuneiform sign unug-a variant 1
12B36	proto-cuneiform sign unug-a variant 1 times a tenu
12B37	proto-cuneiform sign unug-a sheshig
12B38	proto-cuneiform sign unug-b
12B39	proto-cuneiform sign unug-c
12B3A	proto-cuneiform sign ur-a
12B3B	proto-cuneiform sign ur-a times kar2-b
12B3C	proto-cuneiform sign ur-a gunu
12B3D	proto-cuneiform sign ur-b
12B3E	proto-cuneiform sign ur-c
12B3F	proto-cuneiform sign ur2
12B40	proto-cuneiform sign ur2 times tar-c
12B41	proto-cuneiform sign ur2 times one-n57
12B42	proto-cuneiform sign ur3-a1
12B43	proto-cuneiform sign ur3-a1 variant 1
12B44	proto-cuneiform sign ur3-a2
12B45	proto-cuneiform sign ur3-a3
12B46	proto-cuneiform sign ur3-b1
12B47	proto-cuneiform sign ur3-b1 times mash
12B48	proto-cuneiform sign ur3-b2
12B49	proto-cuneiform sign ur4-a
12B4A	proto-cuneiform sign ur4-b
12B4B	proto-cuneiform sign ur4-c
12B4C	proto-cuneiform sign ur5-a
12B4D	proto-cuneiform sign ur5-b
12B4E	proto-cuneiform sign uri
12B4F	proto-cuneiform sign uri3-a
12B50	proto-cuneiform sign uri3-a variant 1

12B51	proto-cuneiform sign uri3-b
12B52	proto-cuneiform sign uris
12B53	proto-cuneiform sign uru-a1
12B54	proto-cuneiform sign uru-a1 times amar variant 2
12B55	proto-cuneiform sign uru-a1 times gu4
12B56	proto-cuneiform sign uru-a1 times hi gunu-a
12B57	proto-cuneiform sign uru-a1 times nimgir
12B58	proto-cuneiform sign uru-a1 times u4
12B59	proto-cuneiform sign uru-a1 times x
12B5A	proto-cuneiform sign uru-a1 times one-n57
12B5B	proto-cuneiform sign uru-a1 times two-n57
12B5C	proto-cuneiform sign uru-a1 nutillu
12B5D	proto-cuneiform sign uru-a2
12B5E	proto-cuneiform sign uru-a2 times one-n58
12B5F	proto-cuneiform sign uru-a3 times kalam-a
12B60	proto-cuneiform sign uru-b1
12B61	proto-cuneiform sign uru-b2
12B62	proto-cuneiform sign uru-c
12B63	proto-cuneiform sign urudu-a
12B64	proto-cuneiform sign urudu-a variant 1
12B65	proto-cuneiform sign urudu-a variant 2
12B66	proto-cuneiform sign urudu-c
12B67	proto-cuneiform sign urudu-d
12B68	proto-cuneiform sign urudu gunu-b
12B69	proto-cuneiform sign urudu gunu-b
12B6A	proto-cuneiform sign urudu gunu-c
12B6B	proto-cuneiform sign urudu gunu-d
12B6C	proto-cuneiform sign ush-a
12B6D	proto-cuneiform sign ush-a over ush-a
12B6E	proto-cuneiform sign ush-b
12B6F	proto-cuneiform sign ush-b times tar-c
12B70	proto-cuneiform sign ush-b over ush-b
12B71	proto-cuneiform sign ush-b variant 1
12B72	proto-cuneiform sign ush-b variant 2 times tar-c
12B73	proto-cuneiform sign ushumgal
12B74	proto-cuneiform sign ushur3-b1
12B75	proto-cuneiform sign ushur3-b2
12B76	proto-cuneiform sign utua-a
12B77	proto-cuneiform sign utua-a tenu
12B78	proto-cuneiform sign utua-b
12B79	proto-cuneiform sign utua-b variant 1
12B7A	proto-cuneiform sign utul-a
12B7B	proto-cuneiform sign utul-b
12B7C	proto-cuneiform sign utul-c
12B7D	proto-cuneiform sign utul-d
12B7E	proto-cuneiform sign uz-a
12B7F	proto-cuneiform sign uzu
12B80	proto-cuneiform sign za-v
12B81	proto-cuneiform sign zabalam-a
12B82	proto-cuneiform sign zabalam-b
12B83	proto-cuneiform sign zag-a
12B84	proto-cuneiform sign zag-a variant 1
12B85	proto-cuneiform sign zag-b
12B86	proto-cuneiform sign zag-c
12B87	proto-cuneiform sign zar-a
12B88	proto-cuneiform sign zar-b1
12B89	proto-cuneiform sign zar-b2
12B8A	proto-cuneiform sign zar-c
12B8B	proto-cuneiform sign zatu620
12B8C	proto-cuneiform sign zatu621-a
12B8D	proto-cuneiform sign zatu621-b
12B8E	proto-cuneiform sign zatu621-c
12B8F	proto-cuneiform sign zatu621-d
12B90	proto-cuneiform sign zatu622
12B91	proto-cuneiform sign zatu623
12B92	proto-cuneiform sign zatu623 variant 1
12B93	proto-cuneiform sign zatu623 variant 2
12B94	proto-cuneiform sign zatu624-a

12B95 𒂔 PROTO-CUNEIFORM SIGN ZATU624-B  
 12B96 𒂕 PROTO-CUNEIFORM SIGN ZATU624-C  
 12B97 𒂖 PROTO-CUNEIFORM SIGN ZATU625  
 12B98 𒂗 PROTO-CUNEIFORM SIGN ZATU625 VARIANT 1  
 12B99 𒂘 PROTO-CUNEIFORM SIGN ZATU626-A  
 12B9A 𒂙 PROTO-CUNEIFORM SIGN ZATU626-B  
 12B9B 𒂚 PROTO-CUNEIFORM SIGN ZATU626-C  
 12B9C 𒂛 PROTO-CUNEIFORM SIGN ZATU627  
 12B9D 𒂜 PROTO-CUNEIFORM SIGN ZATU628-A  
 12B9E 𒂝 PROTO-CUNEIFORM SIGN ZATU628-A VARIANT 1  
 12B9F 𒂞 PROTO-CUNEIFORM SIGN ZATU628-B  
 12BA0 𒂟 PROTO-CUNEIFORM SIGN ZATU629  
 12BA1 𒂠 PROTO-CUNEIFORM SIGN ZATU629 VARIANT 1  
 12BA2 𒂡 PROTO-CUNEIFORM SIGN ZATU630  
 12BA3 𒂢 PROTO-CUNEIFORM SIGN ZATU631  
 12BA4 𒂣 PROTO-CUNEIFORM SIGN ZATU632-A  
 12BA5 𒂤 PROTO-CUNEIFORM SIGN ZATU632-A VARIANT 1  
 12BA6 𒂥 PROTO-CUNEIFORM SIGN ZATU632-B  
 12BA7 𒂦 PROTO-CUNEIFORM SIGN ZATU632-C  
 12BA8 𒂧 PROTO-CUNEIFORM SIGN ZATU633-A  
 12BA9 𒂨 PROTO-CUNEIFORM SIGN ZATU633-B  
 12BAA 𒂩 PROTO-CUNEIFORM SIGN ZATU634  
 12BAB 𒂪 PROTO-CUNEIFORM SIGN ZATU635  
 12BAC 𒂫 PROTO-CUNEIFORM SIGN ZATU636  
 12BAD 𒂬 PROTO-CUNEIFORM SIGN ZATU636 VARIANT 1  
 12BAE 𒂭 PROTO-CUNEIFORM SIGN ZATU637  
 12BAF 𒂮 PROTO-CUNEIFORM SIGN ZATU639  
 12BB0 𒂯 PROTO-CUNEIFORM SIGN ZATU640  
 12BB1 𒂱 PROTO-CUNEIFORM SIGN ZATU641  
 12BB2 𒂲 PROTO-CUNEIFORM SIGN ZATU642  
 12BB3 𒂳 PROTO-CUNEIFORM SIGN ZATU643  
 12BB4 𒂴 PROTO-CUNEIFORM SIGN ZATU644-A  
 12BB5 𒂵 PROTO-CUNEIFORM SIGN ZATU644-A TIMES ONE-N14  
 12BB6 𒂶 PROTO-CUNEIFORM SIGN ZATU644-B  
 12BB7 𒂷 PROTO-CUNEIFORM SIGN ZATU646  
 12BB8 𒂸 PROTO-CUNEIFORM SIGN ZATU647  
 12BB9 𒂹 PROTO-CUNEIFORM SIGN ZATU647 VARIANT 1  
 12BBA 𒂺 PROTO-CUNEIFORM SIGN ZATU648  
 12BBB 𒂻 PROTO-CUNEIFORM SIGN ZATU649  
 12BBC 𒂼 PROTO-CUNEIFORM SIGN ZATU649 VARIANT 1  
 12BBD 𒂽 PROTO-CUNEIFORM SIGN ZATU650  
 12BBE 𒂾 PROTO-CUNEIFORM SIGN ZATU651  
 12BBF 𒂿 PROTO-CUNEIFORM SIGN ZATU651 TIMES AN  
 12BC0 𒂿 PROTO-CUNEIFORM SIGN ZATU651 TIMES EN-A  
 VARIANT 2  
 12BC1 𒂿 PROTO-CUNEIFORM SIGN ZATU651 TIMES GAR  
 12BC2 𒂿 PROTO-CUNEIFORM SIGN ZATU651 TIMES MA  
 12BC3 𒂿 PROTO-CUNEIFORM SIGN ZATU651 TIMES NUN-A  
 12BC4 𒂿 PROTO-CUNEIFORM SIGN ZATU651 TIMES X  
 12BC5 𒂿 PROTO-CUNEIFORM SIGN ZATU651 TIMES ZAR-C  
 12BC6 𒂿 PROTO-CUNEIFORM SIGN ZATU651 VARIANT 1  
 12BC7 𒂿 PROTO-CUNEIFORM SIGN ZATU651 VARIANT 2  
 12BC8 𒂿 PROTO-CUNEIFORM SIGN ZATU651 VARIANT 2 TIMES  
 SHE-A  
 12BC9 𒂿 PROTO-CUNEIFORM SIGN ZATU651 GUNU  
 12BCA 𒂿 PROTO-CUNEIFORM SIGN ZATU659  
 12BCB 𒂿 PROTO-CUNEIFORM SIGN ZATU659 TIMES ONE-N1  
 12BCC 𒂿 PROTO-CUNEIFORM SIGN ZATU659 TIMES ONE-N14  
 12BCD 𒂿 PROTO-CUNEIFORM SIGN ZATU659 TIMES ONE-N58  
 TENU  
 12BCE 𒂿 PROTO-CUNEIFORM SIGN ZATU662  
 12BCF 𒂿 PROTO-CUNEIFORM SIGN ZATU662 TIMES ONE-N14  
 12BD0 𒂿 PROTO-CUNEIFORM SIGN ZATU662 VARIANT 1  
 12BD1 𒂿 PROTO-CUNEIFORM SIGN ZATU662 VARIANT 1 TIMES  
 ONE-N14  
 12BD2 𒂿 PROTO-CUNEIFORM SIGN ZATU662 VARIANT 2  
 12BD3 𒂿 PROTO-CUNEIFORM SIGN ZATU662 VARIANT 2 TIMES  
 ONE-N14  
 12BD4 𒂿 PROTO-CUNEIFORM SIGN ZATU662 VARIANT 3  
 12BD5 𒂿 PROTO-CUNEIFORM SIGN ZATU664  
 12BD6 𒂿 PROTO-CUNEIFORM SIGN ZATU665

12BD7 𒂿 PROTO-CUNEIFORM SIGN ZATU666  
 12BD8 𒂿 PROTO-CUNEIFORM SIGN ZATU667  
 12BD9 𒂿 PROTO-CUNEIFORM SIGN ZATU668  
 12BDA 𒂿 PROTO-CUNEIFORM SIGN ZATU669  
 12BDB 𒂿 PROTO-CUNEIFORM SIGN ZATU670  
 12BDC 𒂿 PROTO-CUNEIFORM SIGN ZATU672  
 12BDD 𒂿 PROTO-CUNEIFORM SIGN ZATU674  
 12BDE 𒂿 PROTO-CUNEIFORM SIGN ZATU675-A  
 12BDF 𒂿 PROTO-CUNEIFORM SIGN ZATU675-B  
 12BE0 𒂿 PROTO-CUNEIFORM SIGN ZATU675-B VARIANT 1  
 12BE1 𒂿 PROTO-CUNEIFORM SIGN ZATU675-C  
 12BE2 𒂿 PROTO-CUNEIFORM SIGN ZATU675-D  
 12BE3 𒂿 PROTO-CUNEIFORM SIGN ZATU676-A  
 12BE4 𒂿 PROTO-CUNEIFORM SIGN ZATU676-B  
 12BE5 𒂿 PROTO-CUNEIFORM SIGN ZATU677-A  
 12BE6 𒂿 PROTO-CUNEIFORM SIGN ZATU677-B  
 12BE7 𒂿 PROTO-CUNEIFORM SIGN ZATU678  
 12BE8 𒂿 PROTO-CUNEIFORM SIGN ZATU679  
 12BE9 𒂿 PROTO-CUNEIFORM SIGN ZATU680-A1  
 12BEA 𒂿 PROTO-CUNEIFORM SIGN ZATU680-A2  
 12BEB 𒂿 PROTO-CUNEIFORM SIGN ZATU680-B  
 12BEC 𒂿 PROTO-CUNEIFORM SIGN ZATU680-B VARIANT 1  
 12BED 𒂿 PROTO-CUNEIFORM SIGN ZATU680-D  
 12BEE 𒂿 PROTO-CUNEIFORM SIGN ZATU680-E  
 12BEF 𒂿 PROTO-CUNEIFORM SIGN ZATU681  
 12BF0 𒂿 PROTO-CUNEIFORM SIGN ZATU682  
 12BF1 𒂿 PROTO-CUNEIFORM SIGN ZATU683-A  
 12BF2 𒂿 PROTO-CUNEIFORM SIGN ZATU683-B  
 12BF3 𒂿 PROTO-CUNEIFORM SIGN ZATU683 TENU  
 12BF4 𒂿 PROTO-CUNEIFORM SIGN ZATU684  
 12BF5 𒂿 PROTO-CUNEIFORM SIGN ZATU685  
 12BF6 𒂿 PROTO-CUNEIFORM SIGN ZATU686-A  
 12BF7 𒂿 PROTO-CUNEIFORM SIGN ZATU686-B  
 12BF8 𒂿 PROTO-CUNEIFORM SIGN ZATU686-C  
 12BF9 𒂿 PROTO-CUNEIFORM SIGN ZATU687  
 12BFA 𒂿 PROTO-CUNEIFORM SIGN ZATU688-A  
 12BFB 𒂿 PROTO-CUNEIFORM SIGN ZATU688-B  
 12BFC 𒂿 PROTO-CUNEIFORM SIGN ZATU689  
 12BFD 𒂿 PROTO-CUNEIFORM SIGN ZATU690  
 12BFE 𒂿 PROTO-CUNEIFORM SIGN ZATU691  
 12BFF 𒂿 PROTO-CUNEIFORM SIGN ZATU692  
 12C00 𒂿 PROTO-CUNEIFORM SIGN ZATU693  
 12C01 𒂿 PROTO-CUNEIFORM SIGN ZATU693 VARIANT 1  
 12C02 𒂿 PROTO-CUNEIFORM SIGN ZATU693 VARIANT 2  
 12C03 𒂿 PROTO-CUNEIFORM SIGN ZATU693 TENU  
 12C04 𒂿 PROTO-CUNEIFORM SIGN ZATU694-A  
 12C05 𒂿 PROTO-CUNEIFORM SIGN ZATU694-B  
 12C06 𒂿 PROTO-CUNEIFORM SIGN ZATU694-C  
 12C07 𒂿 PROTO-CUNEIFORM SIGN ZATU694-C VARIANT 1  
 12C08 𒂿 PROTO-CUNEIFORM SIGN ZATU694-D  
 12C09 𒂿 PROTO-CUNEIFORM SIGN ZATU694-D TENU  
 12C0A 𒂿 PROTO-CUNEIFORM SIGN ZATU695  
 12C0B 𒂿 PROTO-CUNEIFORM SIGN ZATU696  
 12C0C 𒂿 PROTO-CUNEIFORM SIGN ZATU697-A  
 12C0D 𒂿 PROTO-CUNEIFORM SIGN ZATU697-A VARIANT 1  
 12C0E 𒂿 PROTO-CUNEIFORM SIGN ZATU697-A VARIANT 2  
 12C0F 𒂿 PROTO-CUNEIFORM SIGN ZATU697-A VARIANT 3  
 12C10 𒂿 PROTO-CUNEIFORM SIGN ZATU697-B  
 12C11 𒂿 PROTO-CUNEIFORM SIGN ZATU697-C  
 12C12 𒂿 PROTO-CUNEIFORM SIGN ZATU699-A  
 12C13 𒂿 PROTO-CUNEIFORM SIGN ZATU699-B  
 12C14 𒂿 PROTO-CUNEIFORM SIGN ZATU700  
 12C15 𒂿 PROTO-CUNEIFORM SIGN ZATU701  
 12C16 𒂿 PROTO-CUNEIFORM SIGN ZATU702  
 12C17 𒂿 PROTO-CUNEIFORM SIGN ZATU703  
 12C18 𒂿 PROTO-CUNEIFORM SIGN ZATU704  
 12C19 𒂿 PROTO-CUNEIFORM SIGN ZATU705  
 12C1A 𒂿 PROTO-CUNEIFORM SIGN ZATU706  
 12C1B 𒂿 PROTO-CUNEIFORM SIGN ZATU707-A  
 12C1C 𒂿 PROTO-CUNEIFORM SIGN ZATU707-B

12C1D ☽ PROTO-CUNEIFORM SIGN ZATU708  
 12C1E ☽ PROTO-CUNEIFORM SIGN ZATU709  
 12C1F ☽ PROTO-CUNEIFORM SIGN ZATU710  
 12C20 ☽ PROTO-CUNEIFORM SIGN ZATU710 VARIANT 1  
 12C21 ☽ PROTO-CUNEIFORM SIGN ZATU711  
 12C22 ☽ PROTO-CUNEIFORM SIGN ZATU711 VARIANT 1  
 12C23 ☽ PROTO-CUNEIFORM SIGN ZATU711 VARIANT 1 TIMES HI GUNU-A  
 12C24 ☽ PROTO-CUNEIFORM SIGN ZATU711 VARIANT 1 TIMES X  
 12C25 ☽ PROTO-CUNEIFORM SIGN ZATU713  
 12C26 ☽ PROTO-CUNEIFORM SIGN ZATU714  
 12C27 ☽ PROTO-CUNEIFORM SIGN ZATU714 BESIDE RU  
 12C28 ☽ PROTO-CUNEIFORM SIGN ZATU714 TIMES HI GUNU-A  
 12C29 ☽ PROTO-CUNEIFORM SIGN ZATU714 TIMES X  
 12C2A ☽ PROTO-CUNEIFORM SIGN ZATU717  
 12C2B ☽ PROTO-CUNEIFORM SIGN ZATU718  
 12C2C ☽ PROTO-CUNEIFORM SIGN ZATU719  
 12C2D ☽ PROTO-CUNEIFORM SIGN ZATU720  
 12C2E ☽ PROTO-CUNEIFORM SIGN ZATU721  
 12C2F ☽ PROTO-CUNEIFORM SIGN ZATU722  
 12C30 ☽ PROTO-CUNEIFORM SIGN ZATU723  
 12C31 ☽ PROTO-CUNEIFORM SIGN ZATU724  
 12C32 ☽ PROTO-CUNEIFORM SIGN ZATU725  
 12C33 ☽ PROTO-CUNEIFORM SIGN ZATU725 VARIANT 1  
 12C34 ☽ PROTO-CUNEIFORM SIGN ZATU726-A  
 12C35 ☽ PROTO-CUNEIFORM SIGN ZATU726-C  
 12C36 ☽ PROTO-CUNEIFORM SIGN ZATU726-D  
 12C37 ☽ PROTO-CUNEIFORM SIGN ZATU727  
 12C38 ☽ PROTO-CUNEIFORM SIGN ZATU728  
 12C39 ☽ PROTO-CUNEIFORM SIGN ZATU729  
 12C3A ☽ PROTO-CUNEIFORM SIGN ZATU729 VARIANT 1  
 12C3B ☽ PROTO-CUNEIFORM SIGN ZATU730  
 12C3C ☽ PROTO-CUNEIFORM SIGN ZATU732  
 12C3D ☽ PROTO-CUNEIFORM SIGN ZATU733  
 12C3E ☽ PROTO-CUNEIFORM SIGN ZATU734  
 12C3F ☽ PROTO-CUNEIFORM SIGN ZATU735-A  
 12C40 ☽ PROTO-CUNEIFORM SIGN ZATU735-B  
 12C41 ☽ PROTO-CUNEIFORM SIGN ZATU735-B VARIANT 1  
 12C42 ☽ PROTO-CUNEIFORM SIGN ZATU735-B VARIANT 2  
 12C43 ☽ PROTO-CUNEIFORM SIGN ZATU735-C  
 12C44 ☽ PROTO-CUNEIFORM SIGN ZATU736-A  
 12C45 ☽ PROTO-CUNEIFORM SIGN ZATU736-B  
 12C46 ☽ PROTO-CUNEIFORM SIGN ZATU737  
 12C47 ☽ PROTO-CUNEIFORM SIGN ZATU737 TIMES AB-A  
 12C48 ☽ PROTO-CUNEIFORM SIGN ZATU737 TIMES BU-A  
 12C49 ☽ PROTO-CUNEIFORM SIGN ZATU737 TIMES BUR-A  
 12C4A ☽ PROTO-CUNEIFORM SIGN ZATU737 TIMES DI  
 12C4B ☽ PROTO-CUNEIFORM SIGN ZATU737 TIMES E-A  
 12C4C ☽ PROTO-CUNEIFORM SIGN ZATU737 TIMES EN-A VARIANT 2  
 12C4D ☽ PROTO-CUNEIFORM SIGN ZATU737 TIMES GAR  
 12C4E ☽ PROTO-CUNEIFORM SIGN ZATU737 TIMES NI-A GUNU  
 12C4F ☽ PROTO-CUNEIFORM SIGN ZATU737 TIMES NIMGIR  
 12C50 ☽ PROTO-CUNEIFORM SIGN ZATU737 TIMES SU-A  
 12C51 ☽ PROTO-CUNEIFORM SIGN ZATU737 TIMES SHE-A  
 12C52 ☽ PROTO-CUNEIFORM SIGN ZATU737 TIMES SHITA-A1  
 12C53 ☽ PROTO-CUNEIFORM SIGN ZATU737 TIMES UNUG-A VARIANT 1  
 12C54 ☽ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 1  
 12C55 ☽ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 1 TIMES EN-B VARIANT 1  
 12C56 ☽ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 1 TIMES GAR  
 12C57 ☽ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 2  
 12C58 ☽ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 2 TIMES DI  
 12C59 ☽ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 2 TIMES X  
 12C5A ☽ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 3 TIMES SAL

12C5B ☽ PROTO-CUNEIFORM SIGN ZATU737 VARIANT 3 TIMES U4  
 12C5C ☽ PROTO-CUNEIFORM SIGN ZATU749-A  
 12C5D ☽ PROTO-CUNEIFORM SIGN ZATU749-A VARIANT 1  
 12C5E ☽ PROTO-CUNEIFORM SIGN ZATU749-A VARIANT 2  
 12C5F ☽ PROTO-CUNEIFORM SIGN ZATU749-B  
 12C60 ☽ PROTO-CUNEIFORM SIGN ZATU749-C  
 12C61 ☽ PROTO-CUNEIFORM SIGN ZATU750  
 12C62 ☽ PROTO-CUNEIFORM SIGN ZATU750 VARIANT 1  
 12C63 ☽ PROTO-CUNEIFORM SIGN ZATU750 VARIANT 2  
 12C64 ☽ PROTO-CUNEIFORM SIGN ZATU750 VARIANT 3  
 12C65 ☽ PROTO-CUNEIFORM SIGN ZATU751-A  
 12C66 ☽ PROTO-CUNEIFORM SIGN ZATU751-B  
 12C67 ☽ PROTO-CUNEIFORM SIGN ZATU752  
 12C68 ☽ PROTO-CUNEIFORM SIGN ZATU752 VARIANT 1  
 12C69 ☽ PROTO-CUNEIFORM SIGN ZATU753  
 12C6A ☽ PROTO-CUNEIFORM SIGN ZATU754  
 12C6B ☽ PROTO-CUNEIFORM SIGN ZATU755-A  
 12C6C ☽ PROTO-CUNEIFORM SIGN ZATU755-B  
 12C6D ☽ PROTO-CUNEIFORM SIGN ZATU756  
 12C6E ☽ PROTO-CUNEIFORM SIGN ZATU756 VARIANT 1  
 12C6F ☽ PROTO-CUNEIFORM SIGN ZATU757  
 12C70 ☽ PROTO-CUNEIFORM SIGN ZATU757 VARIANT 1  
 12C71 ☽ PROTO-CUNEIFORM SIGN ZATU758  
 12C72 ☽ PROTO-CUNEIFORM SIGN ZATU759  
 12C73 ☽ PROTO-CUNEIFORM SIGN ZATU759 TIMES KU6-A  
 12C74 ☽ PROTO-CUNEIFORM SIGN ZATU759 TIMES KU6-A JOINING KU6-A  
 12C75 ☽ PROTO-CUNEIFORM SIGN ZATU759 TIMES KU6-D  
 12C76 ☽ PROTO-CUNEIFORM SIGN ZATU759 TIMES X  
 12C77 ☽ PROTO-CUNEIFORM SIGN ZATU759 VARIANT 1  
 12C78 ☽ PROTO-CUNEIFORM SIGN ZATU759 TENU TIMES X  
 12C79 ☽ PROTO-CUNEIFORM SIGN ZATU761  
 12C7A ☽ PROTO-CUNEIFORM SIGN ZATU762-A  
 12C7B ☽ PROTO-CUNEIFORM SIGN ZATU762-A TIMES NIM-A  
 12C7C ☽ PROTO-CUNEIFORM SIGN ZATU762-A VARIANT 1  
 12C7D ☽ PROTO-CUNEIFORM SIGN ZATU762-A VARIANT 2  
 12C7E ☽ PROTO-CUNEIFORM SIGN ZATU762-B  
 12C7F ☽ PROTO-CUNEIFORM SIGN ZATU762-B TIMES AB-A  
 12C80 ☽ PROTO-CUNEIFORM SIGN ZATU764  
 12C81 ☽ PROTO-CUNEIFORM SIGN ZATU765  
 12C82 ☽ PROTO-CUNEIFORM SIGN ZATU766  
 12C83 ☽ PROTO-CUNEIFORM SIGN ZATU767  
 12C84 ☽ PROTO-CUNEIFORM SIGN ZATU768  
 12C85 ☽ PROTO-CUNEIFORM SIGN ZATU769  
 12C86 ☽ PROTO-CUNEIFORM SIGN ZATU771  
 12C87 ☽ PROTO-CUNEIFORM SIGN ZATU772  
 12C88 ☽ PROTO-CUNEIFORM SIGN ZATU773-A  
 12C89 ☽ PROTO-CUNEIFORM SIGN ZATU773-A VARIANT 1  
 12C8A ☽ PROTO-CUNEIFORM SIGN ZATU773-B  
 12C8B ☽ PROTO-CUNEIFORM SIGN ZATU774  
 12C8C ☽ PROTO-CUNEIFORM SIGN ZATU775  
 12C8D ☽ PROTO-CUNEIFORM SIGN ZATU776  
 12C8E ☽ PROTO-CUNEIFORM SIGN ZATU776 VARIANT 1  
 12C8F ☽ PROTO-CUNEIFORM SIGN ZATU777  
 12C90 ☽ PROTO-CUNEIFORM SIGN ZATU777 VARIANT 1  
 12C91 ☽ PROTO-CUNEIFORM SIGN ZATU777 VARIANT 2  
 12C92 ☽ PROTO-CUNEIFORM SIGN ZATU778  
 12C93 ☽ PROTO-CUNEIFORM SIGN ZATU779  
 12C94 ☽ PROTO-CUNEIFORM SIGN ZATU780  
 12C95 ☽ PROTO-CUNEIFORM SIGN ZATU781  
 12C96 ☽ PROTO-CUNEIFORM SIGN ZATU782  
 12C97 ☽ PROTO-CUNEIFORM SIGN ZATU783  
 12C98 ☽ PROTO-CUNEIFORM SIGN ZATU784  
 12C99 ☽ PROTO-CUNEIFORM SIGN ZATU785  
 12C9A ☽ PROTO-CUNEIFORM SIGN ZATU786  
 12C9B ☽ PROTO-CUNEIFORM SIGN ZATU787  
 12C9C ☽ PROTO-CUNEIFORM SIGN ZATU788  
 12C9D ☽ PROTO-CUNEIFORM SIGN ZATU789  
 12C9E ☽ PROTO-CUNEIFORM SIGN ZATU791

12C9F 𒊩 PROTO-CUNEIFORM SIGN ZATU792  
 12CA0 𒊩 PROTO-CUNEIFORM SIGN ZATU795  
 12CA1 𒊩 PROTO-CUNEIFORM SIGN ZATU797  
 12CA2 𒊩 PROTO-CUNEIFORM SIGN ZATU798  
 12CA3 𒊩 PROTO-CUNEIFORM SIGN ZATU799  
 12CA4 𒊩 PROTO-CUNEIFORM SIGN ZATU800  
 12CA5 𒊩 PROTO-CUNEIFORM SIGN ZATU801  
 12CA6 𒊩 PROTO-CUNEIFORM SIGN ZATU802  
 12CA7 𒊩 PROTO-CUNEIFORM SIGN ZATU803  
 12CA8 𒊩 PROTO-CUNEIFORM SIGN ZATU804  
 12CA9 𒊩 PROTO-CUNEIFORM SIGN ZATU805  
 12CAA 𒊩 PROTO-CUNEIFORM SIGN ZATU806  
 12CAB 𒊩 PROTO-CUNEIFORM SIGN ZATU807  
 12CAC 𒊩 PROTO-CUNEIFORM SIGN ZATU808  
 12CAD 𒊩 PROTO-CUNEIFORM SIGN ZATU809  
 12CAE 𒊩 PROTO-CUNEIFORM SIGN ZATU810  
 12CAF 𒊩 PROTO-CUNEIFORM SIGN ZATU811  
 12CB0 𒊩 PROTO-CUNEIFORM SIGN ZATU812  
 12CB1 𒊩 PROTO-CUNEIFORM SIGN ZATU813  
 12CB2 𒊩 PROTO-CUNEIFORM SIGN ZATU814  
 12CB3 𒊩 PROTO-CUNEIFORM SIGN ZATU815  
 12CB4 𒊩 PROTO-CUNEIFORM SIGN ZATU817  
 12CB5 𒊩 PROTO-CUNEIFORM SIGN ZATU818  
 12CB6 𒊩 PROTO-CUNEIFORM SIGN ZATU819  
 12CB7 𒊩 PROTO-CUNEIFORM SIGN ZATU820  
 12CB8 𒊩 PROTO-CUNEIFORM SIGN ZATU821  
 12CB9 𒊩 PROTO-CUNEIFORM SIGN ZATU822  
 12CBA 𒊩 PROTO-CUNEIFORM SIGN ZATU823  
 12CBB 𒊩 PROTO-CUNEIFORM SIGN ZATU824  
 12CBC 𒊩 PROTO-CUNEIFORM SIGN ZATU825  
 12CBD 𒊩 PROTO-CUNEIFORM SIGN ZATU826  
 12CBE 𒊩 PROTO-CUNEIFORM SIGN ZATU829  
 12CBF 𒊩 PROTO-CUNEIFORM SIGN ZATU831  
 12CC0 𒊩 PROTO-CUNEIFORM SIGN ZATU831 GUNU  
 12CC1 𒊩 PROTO-CUNEIFORM SIGN ZATU832  
 12CC2 𒊩 PROTO-CUNEIFORM SIGN ZATU833  
 12CC3 𒊩 PROTO-CUNEIFORM SIGN ZATU834  
 12CC4 𒊩 PROTO-CUNEIFORM SIGN ZATU835  
 12CC5 𒊩 PROTO-CUNEIFORM SIGN ZATU836  
 12CC6 𒊩 PROTO-CUNEIFORM SIGN ZATU837-A  
 12CC7 𒊩 PROTO-CUNEIFORM SIGN ZATU837-B  
 12CC8 𒊩 PROTO-CUNEIFORM SIGN ZATU838  
 12CC9 𒊩 PROTO-CUNEIFORM SIGN ZATU839  
 12CCA 𒊩 PROTO-CUNEIFORM SIGN ZATU839 VARIANT 1  
 12CCB 𒊩 PROTO-CUNEIFORM SIGN ZATU840  
 12CCC 𒊩 PROTO-CUNEIFORM SIGN ZATU841  
 12CCD 𒊩 PROTO-CUNEIFORM SIGN ZATU842  
 12CCE 𒊩 PROTO-CUNEIFORM SIGN ZATU843  
 12CCF 𒊩 PROTO-CUNEIFORM SIGN ZATU844  
 12CD0 𒊩 PROTO-CUNEIFORM SIGN ZATU845  
 12CD1 𒊩 PROTO-CUNEIFORM SIGN ZATU846  
 12CD2 𒊩 PROTO-CUNEIFORM SIGN ZATU847  
 12CD3 𒊩 PROTO-CUNEIFORM SIGN ZATU848  
 12CD4 𒊩 PROTO-CUNEIFORM SIGN ZATU849  
 12CD5 𒊩 PROTO-CUNEIFORM SIGN ZATU850  
 12CD6 𒊩 PROTO-CUNEIFORM SIGN ZATU851  
 12CD7 𒊩 PROTO-CUNEIFORM SIGN ZATU852  
 12CD8 𒊩 PROTO-CUNEIFORM SIGN ZATU853  
 12CD9 𒊩 PROTO-CUNEIFORM SIGN ZATU854  
 12CDA 𒊩 PROTO-CUNEIFORM SIGN ZATU855  
 12CDB 𒊩 PROTO-CUNEIFORM SIGN ZI-A  
 12CDC 𒊩 PROTO-CUNEIFORM SIGN ZI-A VARIANT 1  
 12CDD 𒊩 PROTO-CUNEIFORM SIGN ZI-B  
 12CDE 𒊩 PROTO-CUNEIFORM SIGN ZI-D  
 12CDF 𒊩 PROTO-CUNEIFORM SIGN ZUBI-A  
 12CE0 𒊩 PROTO-CUNEIFORM SIGN ZUBI-B  
 12CE1 𒊩 PROTO-CUNEIFORM SIGN ONE-N2 BESIDE RU  
 12CE2 𒊩 PROTO-CUNEIFORM SIGN X-N57 BESIDE GAR  
 12CE3 𒊩 PROTO-CUNEIFORM SIGN ONE-N57 BESIDE AB2  
 12CE4 𒊩 PROTO-CUNEIFORM SIGN ONE-N57 BESIDE SHAH2-A

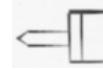
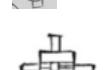
12CE5 𒊩 PROTO-CUNEIFORM SIGN ONE-N57 BESIDE SHUBUR  
 12CE6 𒊩 PROTO-CUNEIFORM SIGN ONE-N57 BESIDE SHUBUR  
 VARIANT 1  
 12CE7 𒊩 PROTO-CUNEIFORM SIGN ONE-N57 TIMES SIG  
 12CE8 𒊩 PROTO-CUNEIFORM SIGN TWO-N57 BESIDE AB2  
 12CE9 𒊩 PROTO-CUNEIFORM SIGN TWO-N57 BESIDE KU6-A  
 12CEA 𒊩 PROTO-CUNEIFORM SIGN TWO-N57 BESIDE SU-A  
 12CEB 𒊩 PROTO-CUNEIFORM SIGN TWO-N57 BESIDE SHUBUR  
 12CEC 𒊩 PROTO-CUNEIFORM SIGN THREE-N57 BESIDE AMAR  
 12CED 𒊩 PROTO-CUNEIFORM SIGN THREE-N57 BESIDE BARA3  
 12CEE 𒊩 PROTO-CUNEIFORM SIGN THREE-N57 BESIDE E2-B  
 12CEF 𒊩 PROTO-CUNEIFORM SIGN THREE-N57 BESIDE GAR  
 12CF0 𒊩 PROTO-CUNEIFORM SIGN THREE-N57 BESIDE  
 NUNUZ-A1  
 12CF1 𒊩 PROTO-CUNEIFORM SIGN THREE-N57 BESIDE NUNUZ-  
 C  
 12CF2 𒊩 PROTO-CUNEIFORM SIGN THREE-N57 BESIDE PIRIG-B1  
 12CF3 𒊩 PROTO-CUNEIFORM SIGN THREE-N57 BESIDE SHUBUR  
 12CF4 𒊩 PROTO-CUNEIFORM SIGN FOUR-N57 BESIDE AMAR  
 12CF5 𒊩 PROTO-CUNEIFORM SIGN FOUR-N57 BESIDE GAR  
 12CF6 𒊩 PROTO-CUNEIFORM SIGN FOUR-N57 BESIDE KU3-A  
 12CF7 𒊩 PROTO-CUNEIFORM SIGN FOUR-N57 BESIDE NI-B  
 12CF8 𒊩 PROTO-CUNEIFORM SIGN FIVE-N57 BESIDE GAR  
 12CF9 𒊩 PROTO-CUNEIFORM SIGN FIVE-N57 BESIDE KU3-A  
 12CFA 𒊩 PROTO-CUNEIFORM SIGN SIX-N57 BESIDE GAR  
 12CFB 𒊩 PROTO-CUNEIFORM SIGN SIX-N57 BESIDE KU3-A  
 12CFC 𒊩 PROTO-CUNEIFORM SIGN EIGHT-N57 BESIDE NI-B  
 12CFD 𒊩 PROTO-CUNEIFORM SIGN ONE-N58 BESIDE BAD  
 12CFE 𒊩 PROTO-CUNEIFORM SIGN ONE-N58 FORM A BESIDE  
 BAD  
 12cff 𒊩 PROTO-CUNEIFORM SIGN ONE-N58 FORM A BESIDE  
 BAD-A  
 12D00 𒊩 PROTO-CUNEIFORM SIGN THREE-N58 BESIDE UR3-B1

## 8 Additional Characters

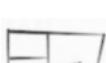
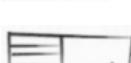
### 8.1 Additional PCSL

The ORACC PCSL contains 221 signs that are not found in the CDLI PC list. These are candidates for future inclusion in the ‘Proto-Cuneiform’ repertoire, after additional analysis has been performed

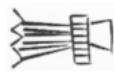
AB×ZU	CUSAS01	
AB~a×(ŠE~a&ŠE~a)	CUSAS31	
AB~a×1(N04)	CUSAS31	
AB₂@g	P342526	
ADAB~v1	ATUXXX	
ANŠE~f	CUSAS01	
BAR×URI₃~a	CUSAS01	
((BU~a.DU₆~a)&(BU~a.DU₆))×UDU~a	CUSAS21	
BU~a+KI	CUSAS21_298	
BU~a+TU~b	CUSAS21	
BU~a&BU~a	CUSAS31_167	
BULUG₃.DU₆~a	CUSAS01	
DARA₄~c	CUSAS31	
DARA₄~d	CUSAS21	
DIN×1(N58)	CUSAS31_59	
DU₈~c×AB₂	CUSAS01	
DU₈~c×AMAR	CUSAS01	

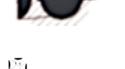
DUB~b@r	P006316	
DUB~h	CUSAS21	
DUG~a×KU <sub>6</sub> ~a	CUSAS31	
DUG~a@t	CDLIXXX	
DUG~b×BA	ZATU093	
DUG~b×(SA~a.GI)	LLATU	
DUG~b×SUKUD~d	P006071	
DUG~b×(UDU~a×TAR)	CUSAS21_247	
DUG~b~v1×1(N58)	CUSAS01_138	
DUG~d	CDLIXXX	
E <sub>2</sub> ~b×3(N57)	P006173	
ENxNUN	CUSAS31_43	
EZEN~a×KAŠ~b	CUSAS01_188	
EZEN~a×X <sub>1</sub>	BAU303	
GA <sub>2</sub> ~a1×E <sub>2</sub> ~a	CUSAS31	
GA <sub>2</sub> ~a1×EN~a	P006065	
GA <sub>2</sub> ~a1×GEŠTU~a	CUSAS01	
GA <sub>2</sub> ~a1×X ~v1	CUSAS01	
GA <sub>2</sub> ~b×KU <sub>6</sub> ~a	CUSAS31	
GA <sub>2</sub> ~b×NUN~b	P252182	
GA <sub>2</sub> ~b×ZATU694~c	P325755	

GAN~c×(4(N57).GAR)	CUSAS31	
GEŠTIN~d	CUSAS21	
GEŠTIN~e	CUSAS01	
GI×A	CUSAS31	
GIŠIMMAR~b2	P250428	
HI~b	P252177	
IB~c	CUSAS01	
KALAM~g	CUSAS01	
KALAM~h	CUSAS01	
KALAM~h2	CUSAS31	
KAŠ~d1	CUSAS01	
KIN₂~b	CUSAS31	
KIŠ~b	CUSAS01	
LAGAB~a×LA₂~a	P342533	
LAGAB~a×NI~a	P274471	
LAGAB~a×1(N58)	CUSAS21	
LAGAB~b×(HI×N04)	P252182	
LAL₂~a×NAGA~a	CUSAS21	
MAH~a×TUN₃~c	CUSAS31	
MAR~b×GAR	P388253	

MAR@g~a	CUSAS31	
MUŠEN.3(N58)	P252184	
NA₂~c	CUSAS21	
NESAG₂~a₂	P006275	
NIM~d	P342517	
NINDA₂×MAR~a	CUSAS21	
NINDA₂×NUN~a	CUSAS31	
NINDA₂×ZATU710	CUSAS21	
PAP@t	CUSAS31	
PIRIG~b1+DIN	CUSAS21	
PIRIG~b1×1(N58@t)	CUSAS21	
SAG+UKKIN~b~v1×1(N57)	CUSAS21	
SAG×NAM₂	P000203	
SAL+HI×HI	CUSAS31	
SAL+ZATU751~a	CUSAS01	
SANGA~e1	CUSAS01	
SANGA~e2	CUSAS01	
SAR~d	CUSAS01	
SI+AN	CUSAS31	
SI×EN~a	CUSAS31	

SI×KU~b1	CUSAS31	
SI×SAL	CUSAS31	
SI×TUN <sub>3</sub> ~a	CUSAS31	
SI×1(N58)	CUSAS31	
SIG~b	P342533	
SILA <sub>3</sub> ~a×MUD <sub>3</sub> ~b	CUSAS31	
SU~c	CUSAS01	
SUHUR~b	CUSAS01	
SUHUR~b@t	CUSAS01	
SUKUD@h	P448702	
ŠA <sub>3</sub> ~a2@g	CUSAS01	
ŠE~a.GAR	CUSAS01	
ŠE~a.NAM <sub>2</sub>  ~v2	P252173	
ŠE~a@t.GAR	CUSAS01	
ŠITA~a3@g	P005996	
ŠU <sub>2</sub> .PAP~a	CUSAS31	
ŠU <sub>2</sub> ×1(N24)	CUSAS31	
ŠU <sub>2</sub> ×3(N57)	P252177	
ŠUR <sub>2</sub> ×1(N58)	CUSAS21	
ŠUR <sub>2</sub> ~c	P252182	

TUM <sub>3</sub>	P427655	
TUR <sub>3</sub> ~a.5(N57)	CUSAS21	
U <sub>4</sub> +1(N24)	CUSAS31	
U <sub>4</sub> ×(1(N01).1(N24))	CUSAS31	
U <sub>4</sub> ×(1(N14).1(N01))	CUSAS01	
U <sub>4</sub> ×(1(N14).3(N01).(1(N14).4(N08))	P518361	
UBI~d	CUSAS31	
UDUNITA~d	CUSAS31	
UKKIN~d	P342536	
UR <sub>3</sub> ~d2	P252177	
URU~a1×KI	CUSAS01	
URU~a1×3(N57)	CUSAS31	
UZ~a	LLATU	
X×HI	P252168	
ZATU693@t	CUSAS01	
ZATU694~e	CUSAS01	
ZATU737×I	P006275	
ZATU737@t×PAP~a	P342547	
ZATU802~b	CUSAS01	
ZATU851	CUSAS01	

ZATU856	P006294	
ZATU857	P006308	
ZATU858	P387511	
ZATU859	CUSAS21	
1(N57).E₂~a	CUSAS21	
2(N57).BIR₃~a	CUSAS31	
2(N57).UDUNITA~a	CUSAS01	
3(N57).BAR×UŠ~a	CUSAS01	
3(N57).UDU~a	CUSAS01	
3(N57).UDUNITA~a	CUSAS01	
3(LAGAB~a)	CUSAS31	
1(N08~v)	P006333	
11(N14)	P235767	
22(N14)	P235759	
1(N22@v)	P005442	
2(N29~b)	CUSAS01	
1(N29~c)	CUSAS01	
1(N30~b)	CUSAS31	
1(N30C)	CUSAS31	
1(N59)	CUSAS01	
6(N59)	CUSAS31	

## 8.2 Additional ORACC

The ORACC PCSL contains 221 signs that are not found in the CDLI PC list. These are candidates for future inclusion in the ‘Proto-Cuneiform’ repertoire, after additional analysis has been performed

AB×ZU	DUG~bxSUKUD~d
AB~ax1(N04)	DUG~bx(UDU~axTAR)
AB <sub>2</sub> ×ŠA <sub>3</sub>	DUG~b~v1×1(N58)
AB <sub>2</sub> ~v2	DUG~b~v2
AB <sub>2</sub> @g	DUG~c~v2
ADAB~v1	E <sub>2</sub> ~bx3(N57)
AN.AN.AN	E <sub>3</sub> ~a1
ANŠE~d	EN~d
ANŠE~f	EZEN~axKAŠ~b
BAD~a	EZEN~axLA@n
BAD <sub>3</sub> ~a1	EZEN~axX <sub>1</sub>
BAR×URI <sub>3</sub> ~a	EZEN~b1
((BU~a.DU <sub>6</sub> ~a)&(BU~a.DU <sub>6</sub> ))×UDU~a	GA <sub>2</sub> ~a1×E <sub>2</sub> ~a
BU~a+KI	GA <sub>2</sub> ~a1×EN~a
BU~a+TU~b	GA <sub>2</sub> ~a1×GEŠTU~a
BU~a&BU~a	GA <sub>2</sub> ~a1×X ~v1
BU~a~v1%BU~a~v1	GA <sub>2</sub> ~a2×3(N57)
BULUG <sub>3</sub> .DU <sub>6</sub> ~a	GA <sub>2</sub> ~bxKU <sub>6</sub> ~a
DARA <sub>3</sub> ~d1	GA <sub>2</sub> ~bxNUN~b
DARA <sub>3</sub> ~d2	GA <sub>2</sub> ~bxZATU694~c
DARA <sub>4</sub> ~c	GA <sub>2</sub> ~bx(1(N58).BAD)
DARA <sub>4</sub> ~d	GAM.GAM
DIN×1(N58)	GAN~cx(4(N57).GAR)
DU.KASKAL	GAN~c~v2
DU <sub>6</sub> ~a2	GAN~c~v2×ŠE <sub>3</sub> @t~v1
DU <sub>8</sub> ~c×AB <sub>2</sub>	GAN~e
DU <sub>8</sub> ~c×AMAR	GAN~exHI
DU <sub>8</sub> ~d	(GAN~exHI)&(GAN~exHI)
DUB~b@r	GEŠTIN~d
DUB~h	GEŠTIN~e
DUG~axKU <sub>6</sub> ~a	GEŠTU~c
DUG~bxBA	GI.NE.GIŠ~v
DUG~bx(SA~a.GI)	GIxA

GI <sub>6</sub> &GI <sub>6</sub>	NE.GIŠ~v
GIŠIMMAR~b2	NESAG <sub>2</sub> ~a2
GURUŠ~c	NI.TUK
HI×ŠE <sub>3</sub> @t~v1	NIM~d
(HI×1(N57))&(HI×1(N57))	NIMGIR <sub>2</sub>
HI~a1	NINDA <sub>2</sub> ×MAR~a
HI~b	NINDA <sub>2</sub> ×NUN~a
HUB <sub>2</sub> ×KASKAL	NINDA <sub>2</sub> ×(X <sub>1</sub> .MAŠ)
IB~c	NINDA <sub>2</sub> ×ZATU710
IGI.BUR	NUN.ME
IR <sub>3</sub>	NUN~b.U <sub>4</sub>
KA×A	PA.KASKAL.DU
KA~a~v1	PA.LAK672
KA~a~v2	PA.SI
KALAM~g	PA.SU <sub>3</sub> .SIKIL
KALAM~h	PA.UDU
KALAM~h2	PAP@t
KAR <sub>2</sub> ~a1	PIRIG~b1+DIN
KAR <sub>2</sub> ~c	PIRIG~b1×1(N58@t)
KAŠ~d1	SAG+UKKIN~b~v1×1(N57)
KIN <sub>2</sub> ~b	SAG×NAM <sub>2</sub>
KUR~e	SAL.ME
LA@n	SAL+HI×HI
LAGAB~a×LA <sub>2</sub> ~a	SAL+ZATU751~a
LAGAB~a×NI~a	SANGA~e1
LAGAB~a×1(N58)	SANGA~e2
LAGAB~b.TE	SAR~d
LAGAB~b×(HI×N04)	SI.A
LAL <sub>2</sub> ~a×NAGA~a	SI+AN
LAM~c×KUR	SI×EN~a
MAH~a×TUN <sub>3</sub> ~c	SI×KU~b1
MAR~b×GAR	SI×SAL
MAR@g~a	SI×TUN <sub>3</sub> ~a
MUŠEN.3(N58)	SI×1(N58)
NA <sub>2</sub> ~a@n	SIG×1(N57)
NA <sub>2</sub> ~b	SIG~b
NA <sub>2</sub> ~c	SILA <sub>3</sub> .ŠU

SILA <sub>3</sub> .TAK <sub>4</sub>	U <sub>4</sub> ×(1(N01).1(N24))
SILA <sub>3</sub> ~a×MUD <sub>3</sub> ~b	U <sub>4</sub> ×(1(N14).1(N01))
SILA <sub>3</sub> ~d	U <sub>4</sub> ×(1(N14).3(N01)).(1(N14).4(N08))
SILA <sub>4</sub> ~c1	UBI~d
SU~c	UD <sub>5</sub> ~d
SU <sub>3</sub> .SU <sub>3</sub> .KALAM	UDUNITA~d
SUHUR~b	UKKIN~d
SUHUR~b@t	UR <sub>3</sub> ~d2
SUHUR~v1	URU~a1×KI
SUHUR~v2	URU~a1×3(N57)
SUKUD~d	URU~a3
SUKUD@h	UŠ~b~v2
ŠA <sub>3</sub> ~a2@g	UZ
ŠE~a.GAR	X×HI
ŠE~a.NAM <sub>2</sub>  ~v2	ZATU694~e
ŠE~a@t~v1	ZATU737×I
ŠE~a@t~v1.GAR	ZATU737~v3
ŠE <sub>3</sub> @t~v1	ZATU737@txPAP~a
ŠEŠ.IB	ZATU802~b
ŠITA~a3@g	ZATU856
ŠITA~b2@g	ZATU857
ŠU <sub>2</sub> .PAP~a	ZATU858
ŠU <sub>2</sub> ×1(N24)	ZATU859
ŠU <sub>2</sub> ×3(N57)	ZI <sub>3</sub> &ZI <sub>3</sub> .SAR
ŠUR <sub>2</sub> ×1(N58)	ZU
ŠUR <sub>2</sub> ~c	1(N57).E <sub>2</sub> ~a
TAG~e	2(N57).BIR <sub>3</sub> ~a
TAR~b	2(N57).UDUNITA~a
TAR~c	3(N57).BAR×UŠ~a
TU~b1	3(N57).SANGA~a
TU~c~v1	3(N57).UDU~a
TUG <sub>2</sub> ~a@g.(BAD&BAD)	3(N57).UDUNITA~a
TUM <sub>3</sub>	3(LAGAB~a)
TUR <sub>3</sub> ~a.5(N57)	1(N08~v)
U <sub>4</sub> .KA.BAR	11(N14)
U <sub>4</sub> +1(N14)+1(N08)	22(N14)
U <sub>4</sub> +1(N24)	1(N22@v)

2(N29~b)	1(N58)~a
1(N29~c)	1(N59)
1(N30~b)	6(N59)
1(N30C)	

## 9 Sign Summaries

### 9.1 Signs with fragmentary components

The following 45 signs are fragmentary or have a component with an unknown identity. These have been retained in the repertoire.

AB~axX	GI×X	U <sub>4</sub> ×X
(BU~a&BU~a).X	(GI&GI)×X	U <sub>4</sub> ×(X+2(N01))
DIM~axX	LAGAB~axX	U <sub>4</sub> ×2(N01).X
DU <sub>8</sub> ~cxX	LAGAB~bxX	U <sub>4</sub> ×8(N01).X
DUG~axX	MA~v1×X	UKKIN~bxX
DUG~bx(KUR~a.X)	MAH~axX	URU~a1×X
DUG~bx(SI <sub>4</sub> ~a.X)	MAR~bxX	ZATU651×X
DUG~bxX	MUŠEN×X	ZATU711~v1×X
DUG~b~v1×X	NI~bxX	ZATU714×X
EZEN~axX	NINDA <sub>2</sub> ×(AN.X)	ZATU737~v2×X
GA~a~v4×X	NINDA <sub>2</sub> ×(HI.X)	ZATU759×X
GA <sub>2</sub> ~a1×X	NINDA <sub>2</sub> ×(U <sub>4</sub> .X)	ZATU759@t×X
GA <sub>2</sub> ~a2×X	NINDA <sub>2</sub> ×X	X(N57).GAR
GA <sub>2</sub> ~a3×X	NINDA <sub>2</sub> ×(X.MAŠ)	
GAN~cxX	SILA <sub>3</sub> ~axX	
GEŠTIN~cxX	TUR~v1×X	

## 9.2 Signs in compounds without independent attestation

There are 43 signs that occur only in compounds. These are not enumerated as independent signs in CDLI-gh. Following the SAC model of not encoding compound-only signs, these PC not excluded from the Unicode repertoire.

Compound-only sign		Occurrences	Compounds
◇	AB <sub>2</sub> ~v2	1	◇  AB <sub>2</sub> ~v2×2(N14)
☒	ANŠE~d	1	☒  DUG~b×ANŠE~d
⤠	BAD~a	1	⤠  1(N58)~a.BAD~a
⤡	DARA <sub>3</sub> ~d1	1	⤡  DARA <sub>3</sub> ~d1×KAR <sub>2</sub> ~b
⤢	DARA <sub>3</sub> ~d2	2	⤢  DARA <sub>3</sub> ~d2×KAR <sub>2</sub> ~a1  ⤢  DARA <sub>3</sub> ~d2×(KAR <sub>2</sub> ~a1.ŠE~a)
⤣	DUB@n~a	2	⤣  (DUB@n~a×1(N58))~a  ⤣  (DUB@n~a×1(N58))~b
⤤	DUB@n~b	1	⤤  DUB@n~b×1(N58)~a
⤥	DUG~b~v2	1	⤥  DUG~b~v2×U <sub>2</sub> ~b
⤦	DUG~c~v2	1	⤦  DUG~c~v2×1(N57)
⤧	EN~d	1	⤧  NUN~a+EN~d
⤨	GAN~c~v2	2	⤨  GAN~c~v2×ŠE <sub>3</sub> ~v1@t  ⤨  GAN~c~v2×ŠE~a
⤩	GEŠTU~c	1	⤩  SAG~v1×GEŠTU~c
⤪	GUDU <sub>4</sub>	2	⤪  NINDA <sub>2</sub> ×GUDU <sub>4</sub>  ~v3 ⤪  NINDA <sub>2</sub> ×GUDU <sub>4</sub>  ~v2
⤫	GURUŠ~c	1	⤫  GURUŠ~c×2(N14)
⤬	HI~a1	2	⤬  NINDA <sub>2</sub> ×(HI~a1.ME~a)  ⤬  NINDA <sub>2</sub> ×(HI~a1.AN.ME~a)
⤭	KA~a~v1	1	⤭  KA~a~v1.ŠE~a
⤮	KA~a~v2	1	⤮  KA~a~v2.ŠE~a@t

Compound-only sign	Occurrences	Compounds
𒆠 KAR <sub>2</sub> ~a1	2	   DARA <sub>3</sub> ~d2x(KAR <sub>2</sub> ~a1.ŠE~a)      DARA <sub>3</sub> ~d2xKAR <sub>2</sub> ~a1
𒆡 KAR <sub>2</sub> ~c	1	   DARA <sub>3</sub> ~cx(KAR <sub>2</sub> ~c.ŠE~a)
𒆢 KUR~e	1	   LAGAB~bxKUR~e
𒆣 KUŠU <sub>2</sub> ~a@t	1	   LAGAB~axKUŠU <sub>2</sub> ~a@t
𒆤 NA <sub>2</sub> ~a@n	1	   (BU~a~v1%BU~a~v1).NA <sub>2</sub> ~a@n
𒆥 NA <sub>2</sub> ~b	1	   (BU~a&BU~a).NA <sub>2</sub> ~b
𒆦 SILA <sub>3</sub> ~a~v1	1	   SILA <sub>3</sub> ~a~v1xDUG~a
𒆧 SILA <sub>3</sub> ~d	1	   SILA <sub>3</sub> ~dxDI~a
𒆨 SUHUR~v1	2	   HI.SUHUR~v1      GA <sub>2</sub> ~a1x(HI.SUHUR~v1)
𒆩 SUHUR~v2	1	   HI.SUHUR~v2
𒆪 ŠE~a@t~v1	2	   GEŠTU~axŠE~a@t~v1      KAŠ~b~v1xŠE~a@t~v1
𒆫 ŠITA~b2@g	1	   ŠITA~b2@gxHI@g~a
𒆬 ŠUBUR~v1	1	   1(N57).ŠUBUR~v1
+	3	   NINDA <sub>2</sub> x(UDU~axTAR~b)      UDU~axTAR~b      U <sub>8</sub> xTAR~b
› TAR~c	4	   UŠ~b~v2xTAR~c      UŠ~bxTAR~c      UR <sub>2</sub> xTAR~c      AMAR~v2xTAR~c
»« TU~c~v1	1	   SILA <sub>3</sub> ~ax(ZATU659.TU~c~v1)
☵ URU~a3	1	   URU~a3xKALAM~a

Compound-only sign	Occurrences	Compounds
↷	UŠ~b~v2	1 ↷   UŠ~b~v2×TAR~c
□━	ZATU737~v3	2 □━   ZATU737~v3×SAL   □━   ZATU737~v3×U <sub>4</sub>
━━	ZATU759@t	1 ━━   ZATU759@t×X
↯	ZU	1 ↯   (ZU&ZU).SAR~a
❀	N(N01)	1 ❀   U <sub>4</sub> ×N(N01)
❀	3(N08)~v1	1 ❀   U <sub>4</sub> ×3(N01).3(N08)~v1
❀	4(N08)~v1	1 ❀   U <sub>4</sub> .4(N08)~v1
↙	1(N57@t)	1 ↙   HI×1(N57@t)
】	1(N58)~a	3 】   1(N58)~a.BAD~a   】   DUB@n~b×1(N58)~a   】   1(N58)~a.BAD

### 9.3 Components of compound signs

There are 675 compounds.

Compound	Count	Components
﴿﴾	2	﴿ A , ﴾ AB <sub>2</sub>
﴿＊﴾	2	﴿ A , ＊ AN
﴿━﴾	2	﴿ A , ━━ EN~a~v2
﴿Ӯ﴾	2	﴿ A , Ӯ ŠUBUR
﴿Ӯ﴾	2	﴿ A , Ӯ ZATU672
﴾	2	﴾ A , • 1(N14)
﴾	2	﴾ AB~a×A@t
﴾	2	﴾ AB~a , ≡ A@t
﴾	2	﴾ AB~a , ≡ AŠ <sub>2</sub>

Compound		Count	Components
𒂗	AB~a×KU <sub>6</sub> ~a	2	𒀭 AB~a , 𒆷 KU <sub>6</sub> ~a
𒂗	AB~a×SUKKAL	2	𒀭 AB~a , 𒋩 SUKKAL
𒂗	AB~a×(ŠE~a&ŠE~a)	3	𒀭 AB~a , 𒈪 ŠE~a , 𒈪 ŠE~a
𒂗	AB~a×X	2	𒀭 AB~a , 𒃲 *X
𒂗	AB~a×ZATU659	2	𒀭 AB~a , ◁ ZATU659
𒂗	AB~a×1(N01)	2	𒀭 AB~a , ▷ 1(N01)
𒂗	AB~b×A	2	𒀭 AB~b , ॥ A
𒂗	AB~b×KU <sub>6</sub> ~a	2	𒀭 AB~b , 𒆷 KU <sub>6</sub> ~a
𒂗	AB~b×ŠA <sub>3</sub> ~a1	2	𒀭 AB~b , 𒈝 ŠA <sub>3</sub> ~a1
◁	AB <sub>2</sub> ×2(N14)	2	◁ AB <sub>2</sub> , ♦ 2(N14)
◇	AB <sub>2</sub> ~v2×2(N14)	2	◇ *AB <sub>2</sub> ~v2 , ♦ 2(N14)
𒂔	AMA~a×E <sub>2</sub> ~a	2	𒄑 AMA~a , 𒈤 E <sub>2</sub> ~a
▷▷	AMAR.1(N02)	2	▷▷ AMAR , ▷ 1(N02)
▷▷	AMAR&AMAR	2	▷▷ AMAR , ▷▷ AMAR
▷	AMAR~v2×TAR~c	2	▷ AMAR~v2 , > *TAR~c
𒂗	APIN~a.APIN~a	2	𒂗 APIN~a , 𒂗 APIN~a
⤓	BAD&BAD	2	⤓ BAD , ⤓ BAD
⤓⤓	BU~a+DU <sub>6</sub> ~a	2	⤓⤓ BU~a , 𒄑 DU <sub>6</sub> ~a
⤓⤓	BU~a+DU <sub>6</sub> ~a~v1	2	⤓⤓ BU~a , 𒄑 DU <sub>6</sub> ~a~v1
⤓⤓	BU~a×GIŠ@t	2	⤓⤓ BU~a , 𒉴 GIŠ@t
⤓⤓	BU~a×1(N58)	2	⤓⤓ BU~a ,   1(N58)

Compound		Count	Components
	(BU~a&BU~a).NA₂~a	3	✧ BU~a , ✧ BU~a ,  NA₂~a
	(BU~a&BU~a).NA₂~a~v1	3	✧ BU~a , ✧ BU~a ,  NA₂~a~v1
	(BU~a&BU~a).NA₂~b	3	✧ BU~a , ✧ BU~a ,  *NA₂~b
	(BU~a&BU~a).X	3	✧ BU~a , ✧ BU~a ,  *X
	BU~a~v1xA	2	✧ BU~a~v1 , // A
	(BU~a~v1%BU~a~v1).NA₂~a@n	3	✧ BU~a~v1 , ✧ BU~a~v1 ,  *NA₂~a@n
	BU~b.NA₂~a~v1	2	Y BU~b ,  NA₂~a~v1
	DA~a.LIŠ	2	DA~a , > LIŠ
	DAR~axA	2	DAR~a , // A
	DARA₃~c×KAR₂~b	2	DARA₃~c ,  KAR₂~b
	DARA₃~c×(KAR₂~c.ŠE~a)	3	DARA₃~c , ✸ *KAR₂~c , ≫ ŠE~a
	DARA₃~d×KAR₂~b	2	DARA₃~d ,  KAR₂~b
	DARA₃~d₁×KAR₂~b	2	*DARA₃~d₁ ,  KAR₂~b
	DARA₃~d₂×KAR₂~a₁	2	*DARA₃~d₂ , ≈ *KAR₂~a₁
	DARA₃~d₂×(KAR₂~a₁.ŠE~a)	3	*DARA₃~d₂ , ≈ *KAR₂~a₁ , ≫ ŠE~a
	DIM~axGU	2	⇒ DIM~a , ⇒ GU
	DIM~axX	2	⇒ DIM~a ,  *X
	DU×1(N58@t)	2	▷ DU , \ 1(N58@t)
	DU₆~a~v1×1(N58)	2	DU₆~a~v1 ,   1(N58)
	DU₈~c×HI	2	◇ DU₈~c , ◇ HI
	DU₈~c×UDU~a	2	◇ DU₈~c , ⊕ UDU~a

Compound		Count	Components
☒	DU <sub>8~c</sub> X	2	☒ DU <sub>8~c</sub> , ☰ *X
☒	(DUB@n~a×1(N58))~a	2	☒ *DUB@n~a,   1(N58)
☒	(DUB@n~a×1(N58))~b	2	☒ *DUB@n~a,   1(N58)
☒	DUB@n~b×1(N58)~a	2	☒ *DUB@n~b,   *1(N58)~a
☒	DUG~a×HI	2	☒ DUG~a, ◇ HI
☒	DUG~a×KASKAL	2	☒ DUG~a, ✕ KASKAL
☒	DUG~a×LAM~b	2	☒ DUG~a, 📂 LAM~b
☒	DUG~a×NAGA~a	2	☒ DUG~a, ✵ NAGA~a
☒	DUG~a×U <sub>2~a</sub>	2	☒ DUG~a, ≡ U <sub>2~a</sub>
☒	DUG~a×U <sub>2~b</sub>	2	☒ DUG~a, ≡ U <sub>2~b</sub>
☒	DUG~a×X	2	☒ DUG~a, ☰ *X
☒	DUG~a×1(N57)	2	☒ DUG~a, — 1(N57)
☒	DUG~b×ANŠE~b	2	☒ DUG~b, ✤ ANŠE~b
☒	DUG~b×ANŠE~d	2	☒ DUG~b, ✤ *ANŠE~d
☒	DUG~b×BALA~a	2	☒ DUG~b, 📂 BALA~a
☒	DUG~b×BIR <sub>3~c</sub>	2	☒ DUG~b, ✤ BIR <sub>3~c</sub>
☒	DUG~b×DIN	2	☒ DUG~b, ▷ DIN
☒	(DUG~b×DIN)@r	3	☒ DUG~b, ▷ DIN, ! none
☒	DUG~b×E~a	2	☒ DUG~b, ☐ E~a
☒	DUG~b×GA~a~v4	2	☒ DUG~b, ✵ GA~a~v4
☒	DUG~b×GA~b	2	☒ DUG~b, ✵ GA~b

Compound		Count	Components
☒☒	DUG~b×GEŠTU~a~v2	2	☒ DUG~b , ☐ GEŠTU~a~v2
☒☒	DUG~b×GEŠTU~b	2	☒ DUG~b , ☐ GEŠTU~b
☒☒	DUG~b×GI₆	2	☒ DUG~b , ☃ GI₆
☒☒	DUG~b×GIŠ	2	☒ DUG~b , ☐ GIŠ
☒☒	DUG~b×HI	2	☒ DUG~b , ☔ HI
☒☒	DUG~b×KASKAL	2	☒ DUG~b , ☗ KASKAL
☒☒	DUG~b×KU₆~a	2	☒ DUG~b , ☈ KU₆~a
☒☒	DUG~b×KUR~a	2	☒ DUG~b , ☙ KUR~a
☒☒	DUG~b×(KUR~a.X)	3	☒ DUG~b , ☙ KUR~a , ☣ *X
☒☒	DUG~b×KUR~b	2	☒ DUG~b , ☚ KUR~b
☒☒	DUG~b×KUR@g~a	2	☒ DUG~b , ☝ KUR@g~a
☒☒	DUG~b×LAM~a	2	☒ DUG~b , ☛ LAM~a
☒☒	DUG~b×MAŠ	2	☒ DUG~b , ☕ MAŠ
☒☒	DUG~b×NAGA~a	2	☒ DUG~b , ☧ NAGA~a
☒☒	DUG~b×NAM₂	2	☒ DUG~b , ☜ NAM₂
☒☒	DUG~b×(NI~a@g.ZATU779)	3	☒ DUG~b , ☔ NI~a@g , ☧ ZATU779
☒☒	DUG~b×SA~a	2	☒ DUG~b , ☞ SA~a
☒☒	DUG~b×SI₄~a	2	☒ DUG~b , ☞ SI₄~a
☒☒	DUG~b×(SI₄~a.X)	3	☒ DUG~b , ☞ SI₄~a , ☣ *X
☒☒	DUG~b×SIG₂~a1	2	☒ DUG~b , ☦ SIG₂~a1
☒☒	DUG~b×SIG₂~a2	2	☒ DUG~b , ☦ SIG₂~a2

Compound		Count	Components
☒	DUG~b×SIG <sub>7</sub>	2	☒ DUG~b , ☐ SIG <sub>7</sub>
☒	DUG~b×SUHUR	2	☒ DUG~b , ☒ SUHUR
☒	DUG~b×ŠAH <sub>2</sub> ~a	2	☒ DUG~b , ☐ ŠAH <sub>2</sub> ~a
☒	DUG~b×ŠE~a	2	☒ DUG~b , ☐ ŠE~a
☒	DUG~b×(ŠE~a.NAM <sub>2</sub> )	3	☒ DUG~b , ☐ ŠE~a , ☐ NAM <sub>2</sub>
☒	DUG~b×TAK <sub>4</sub> ~a	2	☒ DUG~b , ☐ TAK <sub>4</sub> ~a
☒	DUG~b×(TAK <sub>4</sub> ~a.SA~a)	3	☒ DUG~b , ☐ TAK <sub>4</sub> ~a , ☐ SA~a
☒	DUG~b×(TAK <sub>4</sub> ~a.SAL)	3	☒ DUG~b , ☐ TAK <sub>4</sub> ~a , ☐ SAL
☒	DUG~b×TI	2	☒ DUG~b , ☐ TI
☒	DUG~b×U <sub>2</sub> ~a	2	☒ DUG~b , ☐ U <sub>2</sub> ~a
☒	DUG~b×U <sub>2</sub> ~b	2	☒ DUG~b , ☐ U <sub>2</sub> ~b
☒	DUG~b×UH <sub>3</sub> ~a	2	☒ DUG~b , ☐ UH <sub>3</sub> ~a
☒	DUG~b×UH <sub>3</sub> ~a@t	2	☒ DUG~b , ☐ UH <sub>3</sub> ~a@t
☒	DUG~b×X	2	☒ DUG~b , ☐ *X
☒	DUG~b×ZATU707~a	2	☒ DUG~b , ☐ ZATU707~a
☒	DUG~b×ZATU764	2	☒ DUG~b , ☐ ZATU764
☒	DUG~b×ZATU779	2	☒ DUG~b , ☐ ZATU779
☒	DUG~b×ZATU780	2	☒ DUG~b , ☐ ZATU780
☒	DUG~b×ZATU781	2	☒ DUG~b , ☐ ZATU781
☒	DUG~b×(ZATU789.SA~a)	3	☒ DUG~b , ☐ ZATU789 , ☐ SA~a
☒	DUG~b×1(N57)	2	☒ DUG~b , — 1(N57)

Compound		Count	Components
☒	DUG~b×(1(N57).KU <sub>3</sub> ~a)	3	☒ DUG~b , − 1(N57) , ☒ KU <sub>3</sub> ~a
☒	DUG~b×3(N57)	2	☒ DUG~b , ≡ 3(N57)
☒	DUG~b~v1×AB <sub>2</sub>	2	☒ DUG~b~v1 , ☐ AB <sub>2</sub>
☒	DUG~b~v1×DIN	2	☒ DUG~b~v1 , ▷ DIN
☒	DUG~b~v1×GEŠTU~a~v2	2	☒ DUG~b~v1 , ☓ GEŠTU~a~v2
☒	DUG~b~v1×HI	2	☒ DUG~b~v1 , ◇ HI
☒	DUG~b~v1×HI@g~a	2	☒ DUG~b~v1 , ☈ HI@g~a
☒	DUG~b~v1×MAŠ	2	☒ DUG~b~v1 , + MAŠ
☒	DUG~b~v1×ŠE~a	2	☒ DUG~b~v1 , ➤ ŠE~a
☒	DUG~b~v1×ŠE~a@t	2	☒ DUG~b~v1 ,   ŠE~a@t
☒	DUG~b~v1×U <sub>2</sub> ~b	2	☒ DUG~b~v1 ,    U <sub>2</sub> ~b
☒	DUG~b~v1×X	2	☒ DUG~b~v1 , ☉ *X
☒	DUG~b~v1×1(N57)	2	☒ DUG~b~v1 , − 1(N57)
☒	(DUG~b~v1&DUG~b~v1)×1(N58)	3	☒ DUG~b~v1 , ☒ DUG~b~v1 ,   1(N58)
☒	DUG~b~v2×U <sub>2</sub> ~b	2	☒ *DUG~b~v2 ,    U <sub>2</sub> ~b
☒	DUG~c~v1×1(N57)	2	☒ DUG~c~v1 , − 1(N57)
☒	DUG~c~v2×1(N57)	2	☒ *DUG~c~v2 , − 1(N57)
☒	DUG~c~v3×1(N57)	2	☒ DUG~c~v3 , − 1(N57)
☒	E <sub>2</sub> ~a.LIŠ	2	☒ E <sub>2</sub> ~a , > LIŠ
☒	E <sub>2</sub> ~a×3(N58)	2	☒ E <sub>2</sub> ~a ,     3(N58)
☒	E <sub>2</sub> ~a×1(N58@t)	2	☒ E <sub>2</sub> ~a , ^ 1(N58@t)

Compound		Count	Components
	E₂~b.LIŠ	2	
	E₂~b×1(N58@t)	2	
	EN~c&EN~c	2	
	EN₂.E₂~a	2	
	EN₂.E₂~b	2	
	EŠDA×TAR~a	2	
	EZEN~a×EN~b~v1	2	
	EZEN~a×(HI×1(N57).AN)	4	
	EZEN~a×KAB	2	
	EZEN~a×KI	2	
	EZEN~a×LA~e	2	
	EZEN~a×LA~e ~v1	2	
	EZEN~a×NIM~b2	2	
	EZEN~a×NIMGIR	2	
	EZEN~a×RAD~a	2	
	EZEN~a×SAG~v1	2	
	EZEN~a×SU~a	2	
	EZEN~a×(U₂~b.A)	3	
	EZEN~a×U₄	2	
	EZEN~a×X	2	
	EZEN~a~v1×EN~a	2	

Compound		Count	Components
	EZEN~b×6(N57)	2	 EZEN~b , ≡ 6(N57)
	EZEN~b×6(N57) ~v1	2	 EZEN~b , ≡ 6(N57)
	GA~a~v1.ZATU753	2	 GA~a~v1 ,  ZATU753
	GA~a~v4.ZATU753 ~v1	2	 GA~a~v4 ,  ZATU753
	GA~a~v4×X	2	 GA~a~v4 ,  *X
	GA~c×KASKAL	2	 GA~c , ✕ KASKAL
	GA~c×1(N14)	2	 GA~c , • 1(N14)
	GA₂~a₁×A	2	 GA₂~a₁ , { A
	GA₂~a₁×EN~b~v₁	2	 GA₂~a₁ , 
	GA₂~a₁×GEŠTU~c₃	2	 GA₂~a₁ , ≈ GEŠTU~c₃
	GA₂~a₁×GEŠTU~c₅	2	 GA₂~a₁ , ≈ GEŠTU~c₅
	GA₂~a₁×GIR~a	2	 GA₂~a₁ ,  GIR~a
	GA₂~a₁×(GIR~a.KU₆~a)	3	 GA₂~a₁ ,  GIR~a ,  KU₆~a
	GA₂~a₁×GIŠ@t	2	 GA₂~a₁ , [ GIŠ@t
	GA₂~a₁×GU₄	2	 GA₂~a₁ , 
	GA₂~a₁×HAL	2	 GA₂~a₁ , ≈ HAL
	GA₂~a₁×HI	2	 GA₂~a₁ , ◇ HI
	GA₂~a₁×(HI.SUHUR~v₁)	3	 GA₂~a₁ , ◇ HI , ≈ *SUHUR~v₁
	GA₂~a₁×KU₃~a	2	 GA₂~a₁ , 
	GA₂~a₁×KU₆~a	2	 GA₂~a₁ , 
	GA₂~a₁×(KU₆~a.KU₆~a)	3	 GA₂~a₁ ,  KU₆~a ,  KU₆~a

Compound		Count	Components
☒	GA₂~a₁×LAGAB~b	2	☒ GA₂~a₁, ☐ LAGAB~b
☒	GA₂~a₁×MAŠ	2	☒ GA₂~a₁, + MAŠ
☒	GA₂~a₁×NAGA~a	2	☒ GA₂~a₁, ✪ NAGA~a
☒	GA₂~a₁×NIM~b₁	2	☒ GA₂~a₁, ✕ NIM~b₁
☒	GA₂~a₁×NUN~a	2	☒ GA₂~a₁, ✕ NUN~a
☒	GA₂~a₁×PAD~b	2	☒ GA₂~a₁, ▷ PAD~b
☒	GA₂~a₁×PAP~a	2	☒ GA₂~a₁, ↘ PAP~a
☒	GA₂~a₁×SU~a	2	☒ GA₂~a₁, ⇡ SU~a
☒	GA₂~a₁×SUHUR	2	☒ GA₂~a₁, ✪ SUHUR
☒	GA₂~a₁×SUKUD	2	☒ GA₂~a₁, ⇢ SUKUD
☒	GA₂~a₁×((SUKUD+SUKUD)~a)	2	☒ GA₂~a₁, ! none
☒	GA₂~a₁×((SUKUD+SUKUD)~b)	2	☒ GA₂~a₁, ! none
☒	GA₂~a₁×SUMAŠ	2	☒ GA₂~a₁, ✪ SUMAŠ
☒	GA₂~a₁×ŠA	2	☒ GA₂~a₁, ➤ ŠA
☒	GA₂~a₁×TI	2	☒ GA₂~a₁, ⇢ TI
☒	GA₂~a₁×U₄	2	☒ GA₂~a₁, ⚭ U₄
☒	GA₂~a₁×X	2	☒ GA₂~a₁, * X
☒	GA₂~a₁×1(N14)	2	☒ GA₂~a₁, • 1(N14)
☒	GA₂~a₁×1(N57)	2	☒ GA₂~a₁, – 1(N57)
☒	GA₂~a₁×3(N57)	2	☒ GA₂~a₁, ≡ 3(N57)
☒	GA₂~a₂×GU₄	2	☒ GA₂~a₂, ▷ GU₄

Compound		Count	Components
☒☒	GA₂~a₂×NI~a	2	☒ GA₂~a₂, ▷ NI~a
☒☒	GA₂~a₂×NI~b	2	☒ GA₂~a₂, ▷ NI~b
☒☒	GA₂~a₂×SUHUR	2	☒ GA₂~a₂, ☒ SUHUR
☒☒	GA₂~a₂×ŠE₃~v₁	2	☒ GA₂~a₂, ☩ ŠE₃~v₁
☒☒	GA₂~a₂×(ŠE₃~v₁.GU₄)	3	☒ GA₂~a₂, ☩ ŠE₃~v₁, ▷ GU₄
☒☒	GA₂~a₂×X	2	☒ GA₂~a₂, ☪ *X
☒☒	GA₂~a₃×X	2	☒ GA₂~a₃, ☪ *X
☒☒	GA₂~b×DUB~a	2	☒ GA₂~b, ☐ DUB~a
☒☒	GA₂~b×DUB~b~v₂	2	☒ GA₂~b, ☐ DUB~b~v₂
☒☒	GA₂~b×KU₃~a	2	☒ GA₂~b, ☩ KU₃~a
☒☒	GA₂~b×ZATU659	2	☒ GA₂~b, ⌈ ZATU659
☒☒	GAN~c×DIN	2	☒ GAN~c, ▷ DIN
☒☒	GAN~c×HI	2	☒ GAN~c, ⌘ HI
☒☒	GAN~c×(HI.DIN)	3	☒ GAN~c, ⌘ HI, ▷ DIN
☒☒	GAN~c×LAGAB~b	2	☒ GAN~c, ☐ LAGAB~b
☒☒	GAN~c×NE~a	2	☒ GAN~c, ☩ NE~a
☒☒	GAN~c×SIG₇	2	☒ GAN~c, ☩ SIG₇
☒☒	GAN~c×X	2	☒ GAN~c, ☪ *X
☒☒	GAN~c~v₁×KAŠ~c	2	☒ GAN~c~v₁, ☐ KAŠ~c
☒☒	GAN~c~v₁×(KUR~a.A)	3	☒ GAN~c~v₁, ☩ KUR~a, ⌈ A
☒☒	GAN~c~v₁×ZATU777~v₁	2	☒ GAN~c~v₁, ☐ ZATU777~v₁

Compound		Count	Components
	GAN~c~v2xSE~a	2	*GAN~c~v2 ,  ŠE~a
	GAN~c~v2xSE <sub>3</sub> ~v1@t	2	*GAN~c~v2 ,  ŠE <sub>3</sub> ~v1@t
	GAN~dxEŠTU~a~v2	2	GAN~d ,  GEŠTU~a~v2
	GAN~dxHI	2	GAN~d ,  HI
	GEŠTIN~cxX	2	GEŠTIN~c ,  *X
	GEŠTU~axSE~a@t~v1	2	GEŠTU~a ,  *ŠE~a@t~v1
	GIxKU~b1	2	GI ,  KU~b1
	GIxNAM <sub>2</sub>	2	GI ,  NAM <sub>2</sub>
	GIxSIG <sub>2</sub> ~d1	2	GI ,  SIG <sub>2</sub> ~d1
	GIxSE <sub>3</sub> ~v1	2	GI ,  ŠE <sub>3</sub> ~v1
	GIxX	2	GI ,  *X
	GIx1(N58@t)	2	GI ,  \ 1(N58@t)
	GI&GI	2	GI ,  GI
	(GI&GI)xGIS@t	3	GI ,  GI ,  GIŠ@t
	(GI&GI)xSE <sub>3</sub> ~v1	3	GI ,  GI ,  ŠE <sub>3</sub> ~v1
	(GI&GI)xX	3	GI ,  GI ,  *X
	GI~v1xGIS@t	2	GI~v1 ,  GIŠ@t
	GI~v1xLAGAB~a	2	GI~v1 ,  LAGAB~a
	GI~v1x1(N14)	2	GI~v1 ,  • 1(N14)
	GI~v1&GI~v1&GI~v1	3	GI~v1 ,  GI~v1 ,  GI~v1
	GI <sub>4</sub> ~axA	2	GI <sub>4</sub> ~a ,  A

Compound		Count	Components
	GI <sub>4</sub> ~a&GI <sub>4</sub> ~a	2	GI <sub>4</sub> ~a ,  GI <sub>4</sub> ~a
	GI <sub>4</sub> ~b&GI <sub>4</sub> ~b	2	GI <sub>4</sub> ~b ,  GI <sub>4</sub> ~b
	GIR~a.KU <sub>6</sub> ~a	2	GIR~a ,  KU <sub>6</sub> ~a
	GIR~b~v1.GIR~b~v1	2	GIR~b~v1 ,  GIR~b~v1
	GIR <sub>3</sub> ~a x SE~b	2	GIR <sub>3</sub> ~a ,  SE~b
	GIR <sub>3</sub> ~c x KAR <sub>2</sub> ~b	2	GIR <sub>3</sub> ~c ,  KAR <sub>2</sub> ~b
	GIR <sub>3</sub> ~c x SE <sub>3</sub> ~v1	2	GIR <sub>3</sub> ~c ,  SE <sub>3</sub> ~v1
	GIŠ.TE	2	GIŠ ,  TE
	(GIŠ x (DIN.DIN))~a	3	GIŠ ,  DIN ,  DIN
	(GIŠ x (DIN.DIN))~b	3	GIŠ ,  DIN ,  DIN
	(GIŠ x (DIN.DIN))~c	3	GIŠ ,  DIN ,  DIN
	GIŠ x SU <sub>2</sub> ~a	2	GIŠ ,  SU <sub>2</sub> ~a
	GIŠ x SU <sub>2</sub> ~b	2	GIŠ ,  SU <sub>2</sub> ~b
	GIŠ@t.E <sub>2</sub> ~a	2	GIŠ@t ,  E <sub>2</sub> ~a
	GIŠ <sub>3</sub> ~a&GIŠ <sub>3</sub> ~a	2	GIŠ <sub>3</sub> ~a ,  GIŠ <sub>3</sub> ~a
	GU <sub>4</sub> .ZATU755~b	2	GU <sub>4</sub> ,  ZATU755~b
	GUG <sub>2</sub> ~v1xSILA <sub>3</sub> ~a	2	GUG <sub>2</sub> ~v1 ,  SILA <sub>3</sub> ~a
	GUG <sub>2</sub> ~v1xTUR~v1	2	GUG <sub>2</sub> ~v1 ,  TUR~v1
	GUUKKAL~a.HI@g~a	2	GUUKKAL~a ,  HI@g~a
	GURUŠ~a x 2(N14)	2	GURUŠ~a ,  2(N14)
	GURUŠ~b x 2(N14)	2	GURUŠ~b ,  2(N14)

Compound		Count	Components
	GURUŠ~c×2(N14)	2	*GURUŠ~c ,
	HAŠHUR×MA	2	HAŠHUR ,
	HI.SUHUR	2	HI ,
	HI.SUHUR~v1	2	HI ,
	HI.SUHUR~v2	2	HI ,
	HI×LAGAB~a	2	HI ,
	HI×ŠE₃~v1@t	2	HI ,
	HI×ZATU707~a	2	HI ,
	HI×1(N01@f)	2	HI ,
	HI×1(N57)	2	HI ,
	(HI×1(N57)).(HI×1(N57))	4	HI ,  ,  HI ,
	HI×1(N57@t)	2	HI ,
	HI×1(N58)	2	HI ,
	IR~a.GA₂~a₁	2	IR~a ,
	KA~a×SAR~a	2	KA~a ,
	KA~a~v1.ŠE~a	2	*KA~a~v1 ,
	KA~a~v2.ŠE~a@t	2	*KA~a~v2 ,
	KA₂~d×LAM~b~v2	2	KA₂~d ,
	KAB×1(N58)	2	KAB ,
	KAK~a.GA₂~a₁	2	KAK~a ,
	KAŠ~b~v1×ŠE~a@t~v1	2	KAŠ~b~v1 ,

Compound		Count	Components
𒆠	KI@nxDUB~a	2	◇ KI@n , 𒂗 DUB~a
𒀭𒃲	KU <sub>6</sub> ~a.1(N02)	2	𒀭 KU <sub>6</sub> ~a , 𒃲 1(N02)
𒀭𒃩	KU <sub>6</sub> ~a+GIŠ	2	𒀭 KU <sub>6</sub> ~a , 𒃩 GIŠ
𒀭𒃩	KU <sub>6</sub> ~a+KU <sub>6</sub> ~a	2	𒀭 KU <sub>6</sub> ~a , 𒀭 KU <sub>6</sub> ~a
𒂔𒂐	KUR~a.E <sub>2</sub> ~a	2	𒂔 KUR~a , 𒂐 E <sub>2</sub> ~a
𒂔𒂔	KUR~a.NUNUZ~a1	2	𒂔 KUR~a , 𒂔 NUNUZ~a1
𒂔𒂐	KUR~b.E <sub>2</sub> ~a	2	𒂔 KUR~b , 𒂐 E <sub>2</sub> ~a
ଓ	LAGAB~axBA	2	○ LAGAB~a , ↤ BA
ଓ	LAGAB~axBIR <sub>3</sub> ~b	2	○ LAGAB~a , ⤵ BIR <sub>3</sub> ~b
ଓ	LAGAB~axDU <sub>6</sub> ~a~v1	2	○ LAGAB~a , ܰ DU <sub>6</sub> ~a~v1
ଓ	LAGAB~axKAK~a	2	○ LAGAB~a , ▷ KAK~a
ଓ	LAGAB~axKU <sub>6</sub> ~a	2	○ LAGAB~a , 𒀭 KU <sub>6</sub> ~a
ଓ	LAGAB~ax(KU <sub>6</sub> ~a+KU <sub>6</sub> ~a)	3	○ LAGAB~a , 𒀭 KU <sub>6</sub> ~a , 𒀭 KU <sub>6</sub> ~a
ଓ	LAGAB~axKUŠU <sub>2</sub> ~a@t	2	○ LAGAB~a , ܰ *KUŠU <sub>2</sub> ~a@t
ଓ	LAGAB~axLAGAB~a	2	○ LAGAB~a , ○ LAGAB~a
ଓ	LAGAB~axME~a	2	○ LAGAB~a , ↗ ME~a
ଓ	LAGAB~axNUN~b	2	○ LAGAB~a , ܰ NUN~b
ଓ	LAGAB~axPA~a	2	○ LAGAB~a , ܰ PA~a
ଓ	LAGAB~axSI~v1	2	○ LAGAB~a , ↗ SI~v1
ଓ	LAGAB~axSIG <sub>7</sub> ~v1	2	○ LAGAB~a , ↗ SIG <sub>7</sub> ~v1
ଓ	LAGAB~axSU~a	2	○ LAGAB~a , ܰ SU~a

Compound		Count	Components
⌚	LAGAB~axšA	2	⌚ LAGAB~a, ➤ ŠA
⌚	LAGAB~axšITA~a1	2	⌚ LAGAB~a, ➤ šITA~a1
⌚	LAGAB~axTI	2	⌚ LAGAB~a, ⇠ TI
⌚	LAGAB~axU <sub>4</sub>	2	⌚ LAGAB~a, ⚡ U <sub>4</sub>
⌚	LAGAB~axUB	2	⌚ LAGAB~a, ✽ UB
⌚	LAGAB~axX	2	⌚ LAGAB~a, ⚪ *X
⌚	LAGAB~axZATU753	2	⌚ LAGAB~a, ⌂ ZATU753
⌚	LAGAB~ax2(N14)	2	⌚ LAGAB~a, ♦ 2(N14)
⌚	LAGAB~bxBANŠUR~a	2	⌚ LAGAB~b, ➤ BANŠUR~a
⌚	LAGAB~bxGA`AR~a1	2	⌚ LAGAB~b, ➤ GA`AR~a1
⌚	LAGAB~bxHI	2	⌚ LAGAB~b, ◇ HI
⌚	LAGAB~bxKUR~e	2	⌚ LAGAB~b, ☀ *KUR~e
⌚	LAGAB~bxPA~a	2	⌚ LAGAB~b, ≡ PA~a
⌚	LAGAB~bxSI	2	⌚ LAGAB~b, ↗ SI
⌚	LAGAB~bxSUH <sub>3</sub>	2	⌚ LAGAB~b, ➤ SUH <sub>3</sub>
⌚	LAGAB~bxšITA~c	2	⌚ LAGAB~b, ➤ šITA~c
⌚	LAGAB~bxU <sub>4</sub>	2	⌚ LAGAB~b, ⚡ U <sub>4</sub>
⌚	LAGAB~bxX	2	⌚ LAGAB~b, ⚪ *X
⌚	LAGAB~bx1(N01)	2	⌚ LAGAB~b, ▷ 1(N01)
⌚	LAGAB~b&LAGAB~b	2	⌚ LAGAB~b, □ LAGAB~b
⌚	LAL <sub>2</sub> ~axEZEN~a~v1	2	⌚ LAL <sub>2</sub> ~a, ✎ EZEN~a~v1

Compound		Count	Components
	LAL <sub>2</sub> ~a×NIM~b2	2	LAL <sub>2</sub> ~a,  NIM~b2
	LU <sub>2</sub> ×GEŠTU~c3	2	LU <sub>2</sub> ,  GEŠTU~c3
	MA×MA	2	MA,  MA
	MA×1(N58)	2	MA,   1(N58)
	MA~v1×A	2	MA~v1,  A
	MA~v1×X	2	MA~v1,  *X
	MA~v1×2(N57)	2	MA~v1, = 2(N57)
	MAH~a×AB <sub>2</sub>	2	MAH~a,  AB <sub>2</sub>
	MAH~a×GUKKAL~a	2	MAH~a,  GUKKAL~a
	MAH~a×KU <sub>6</sub> ~a	2	MAH~a,  KU <sub>6</sub> ~a
	MAH~a×MAŠ	2	MAH~a, + MAŠ
	MAH~a×NA~a	2	MAH~a, -  NA~a
	MAH~a×(SILA <sub>3</sub> ~a×UMBIN~a)	3	MAH~a, > SILA <sub>3</sub> ~a, ) UMBIN~a
	MAH~a×TUG <sub>2</sub> ~a	2	MAH~a, ⊇ TUG <sub>2</sub> ~a
	MAH~a×UD <sub>5</sub> ~a~v1	2	MAH~a, ⊕ UD <sub>5</sub> ~a~v1
	MAH~a×UDU~a	2	MAH~a, ⊕ UDU~a
	MAH~a×UR~a	2	MAH~a, □ UR~a
	MAH~a×UTUA~a	2	MAH~a, ⊕ UTUA~a
	MAH~a×X	2	MAH~a,  *X
	MAH~a×ZATU659	2	MAH~a, < ZATU659
	MAH~b×KU <sub>6</sub> ~a	2	MAH~b,  KU <sub>6</sub> ~a

Compound		Count	Components
𒃩	MAH~b×MAŠ	2	𒃩 MAH~b , + MAŠ
𒃩	MAH~b×NA~a	2	𒃩 MAH~b , - 𒀭 NA~a
𒃩	MAH~b×SAL	2	𒃩 MAH~b , ▷ SAL
𒄑-	MAR~b×(LAGAB~b.ŠE₃~v1)	3	□- MAR~b , □ LAGAB~b , 𒂪 ŠE₃~v1
𒄑-	MAR~b×ŠE~a	2	□- MAR~b , 𒂸 ŠE~a
𒄑-	MAR~b×X	2	□- MAR~b , 𒀭 *X
𒄑▷	MUD₃~a@g×GU	2	𒄑▷ MUD₃~a@g , ▷ GU
◁UR	MUŠEN.UR₃~b2	2	◁ MUŠEN , 𒂣 UR₃~b2
◁	MUŠEN×X	2	◁ MUŠEN , 𒀭 *X
◁	MUŠEN×1(N57)	2	◁ MUŠEN , - 1(N57)
◁	MUŠEN×2(N57)	2	◁ MUŠEN , = 2(N57)
◁	MUŠEN×3(N57)	2	◁ MUŠEN , ≡ 3(N57)
◁	NAGA~a×TAK₄~a	2	◁ NAGA~a , 𒄑 TAK₄~a
▷	NAM₂×1(N01)	2	▷ NAM₂ , ▷ 1(N01)
▷	NI~a.RU~v1	2	▷ NI~a , ▷ RU~v1
▷	NI~a×1(N57)	2	▷ NI~a , - 1(N57)
▷	NI~b×X	2	▷ NI~b , 𒀭 *X
▷	NI~b×4(N57)	2	▷ NI~b , ≡ 4(N57)
◁*	NINDA₂×AN	2	◁ AN NINDA₂ , * AN
◁*◇	NINDA₂×(AN.HI)	3	◁ AN NINDA₂ , * AN , ◇ HI
◁*+	NINDA₂×(AN.ME~a)	3	◁ AN NINDA₂ , * AN , + ME~a

Compound		Count	Components
	NINDA₂ × (AN.X)	3	NINDA₂,  AN,  *X
	NINDA₂ × BA	2	NINDA₂,  BA
	NINDA₂ × EZEN~b	2	NINDA₂,  EZEN~b
	NINDA₂ × GA' AR~a1	2	NINDA₂,  GA' AR~a1
	NINDA₂ × GAR	2	NINDA₂,  GAR
	NINDA₂ × GIŠ	2	NINDA₂,  GIŠ
	NINDA₂ × (GIŠ.DAR~a)	3	NINDA₂,  GIŠ,  DAR~a
	NINDA₂ × GU₄	2	NINDA₂,  GU₄
	NINDA₂ × GUDU₄  ~v2	2	NINDA₂,  GUDU₄
	NINDA₂ × GUDU₄  ~v3	2	NINDA₂,  GUDU₄
	NINDA₂ × HI	2	NINDA₂,  HI
	NINDA₂ × (HI.AN.ME~a)	4	NINDA₂,  HI,  AN,  ME~a
	NINDA₂ × (HI.ME~a)	3	NINDA₂,  HI,  ME~a
	NINDA₂ × (HI.X)	3	NINDA₂,  HI,  *X
	NINDA₂ × (HI~a1.AN.ME~a)	4	NINDA₂,  HI~a1,  AN,  ME~a
	NINDA₂ × (HI~a1.ME~a)	3	NINDA₂,  HI~a1,  ME~a
	NINDA₂ × KAŠ~b	2	NINDA₂,  KAŠ~b
	NINDA₂ × MAR~b	2	NINDA₂,  MAR~b
	NINDA₂ × NE~a~v1	2	NINDA₂,  NE~a~v1
	NINDA₂ × ŠIM~a~v2	2	NINDA₂,  ŠIM~a~v2
	NINDA₂ × U₄	2	NINDA₂,  U₄

Compound		Count	Components
	NINDA <sub>2</sub> ×(U <sub>4</sub> .X)	3	NINDA <sub>2</sub> ,  U <sub>4</sub> ,  *X
	NINDA <sub>2</sub> ×(UDU~a×TAR~a)	3	NINDA <sub>2</sub> ,  UDU~a,  TAR~a
	NINDA <sub>2</sub> ×(UDU~a×TAR~b)	3	NINDA <sub>2</sub> ,  UDU~a,  + *TAR~b
	NINDA <sub>2</sub> ×X	2	NINDA <sub>2</sub> ,  *X
	NINDA <sub>2</sub> ×(X.MAŠ)	3	NINDA <sub>2</sub> ,  *X,  MAŠ
	NINDA <sub>2</sub> ×(ZATU659×1(N01))	3	NINDA <sub>2</sub> ,  ZATU659,  ▷ 1(N01)
	NINDA <sub>2</sub> ×1(N01)	2	NINDA <sub>2</sub> ,  ▷ 1(N01)
	NINDA <sub>2</sub> ×2(N01)	2	NINDA <sub>2</sub> ,  ▷ 2(N01)
	NINDA <sub>2</sub> ×1(N06)	2	NINDA <sub>2</sub> ,  ▷ 1(N06)
	NINDA <sub>2</sub> ×(1(N06).HI@g~a)	3	NINDA <sub>2</sub> ,  ▷ 1(N06),  HI@g~a
	NINDA <sub>2</sub> ×1(N08)	2	NINDA <sub>2</sub> ,  ▷ 1(N08)
	NIR~a×AN	2	NIR~a,  * AN
	NU <sub>11</sub> &NU <sub>11</sub>	2	NU <sub>11</sub> ,  NU <sub>11</sub>
	NUN~a+A	2	NUN~a,  { A }
	NUN~a+EN~a~v2	2	NUN~a,  EN~a~v2
	NUN~a+EN~b~v1	2	NUN~a,  EN~b~v1
	NUN~a+EN~d	2	NUN~a,  *EN~d
	NUN~a+NAM <sub>2</sub>	2	NUN~a,  NAM <sub>2</sub>
	NUN~b+EN~a	2	NUN~b,  EN~a
	PIRIG~b1×UR <sub>2</sub>	2	PIRIG~b1,  UR <sub>2</sub>
	SAG×GEŠTU~a	2	SAG,  GEŠTU~a

Compound		Count	Components
	SAG×SAR~a	2	↷ SAG , ➤ SAR~a
	SAG@n×GEŠTU~b	2	↶ SAG@n , ▷ GEŠTU~b
	SAG~v1×GEŠTU~c	2	↷ SAG~v1 , ≈ *GEŠTU~c
	SAG~v1×LAM~c	2	↷ SAG~v1 , ↗ LAM~c
	SAG~v1×MA~v1	2	↷ SAG~v1 , ↘ MA~v1
	SAG~v1×1(N14)	2	↷ SAG~v1 , • 1(N14)
	SAG~v2×GEŠTU~b	2	↷ SAG~v2 , ▷ GEŠTU~b
	SAL.KUR~a	2	▷ SAL , -Semit. KUR~a
	SAL.LAM~b	2	▷ SAL , -Semit. LAM~b
	SAL.ŠU2~b	2	▷ SAL , ⌂ ŠU₂~b
	SAL×1(N58)	2	▷ SAL ,   1(N58)
	SAR~axŠE~a	2	➤ SAR~a , ➤— ŠE~a
	SI×GU₄	2	↶▷ SI , ➤ GU₄
	SI×ŠE₃~v1	2	↶▷ SI , ⌂ ŠE₃~v1
	SIG₂~b×1(N14)	2	⌚ SIG₂~b , • 1(N14)
	SIG₂~b&SIG₂~b	2	⌚ SIG₂~b , ⌚ SIG₂~b
	SILA₃~axA	2	➤ SILA₃~a , ⌂ A
	SILA₃~axAMAR	2	➤ SILA₃~a , ⌂ AMAR
	SILA₃~axDUG~a ~v1	2	➤ SILA₃~a , ⌚ DUG~a
	SILA₃~axDUG~b	2	➤ SILA₃~a , ⌚ DUG~b
	SILA₃~axGA~a~v3	2	➤ SILA₃~a , ⌚ GA~a~v3

Compound		Count	Components
𒈗	SILA <sub>3</sub> ~a×GARA <sub>2</sub> ~a	2	✕ SILA <sub>3</sub> ~a , 𒈗 GARA <sub>2</sub> ~a
𒈗	SILA <sub>3</sub> ~a×GEŠTU~a~v2	2	✕ SILA <sub>3</sub> ~a , 𒈗 GEŠTU~a~v2
𒈗	SILA <sub>3</sub> ~a×GEŠTU~c3	2	✕ SILA <sub>3</sub> ~a , 𒈗 GEŠTU~c3
𒈗	SILA <sub>3</sub> ~a×GEŠTU~c5	2	✕ SILA <sub>3</sub> ~a , 𒈗 GEŠTU~c5
𒈗	SILA <sub>3</sub> ~a×HAŠHUR	2	✕ SILA <sub>3</sub> ~a , 𒈗 HAŠHUR
𒈗	SILA <sub>3</sub> ~a×HI	2	✕ SILA <sub>3</sub> ~a , ◇ HI
𒈗	SILA <sub>3</sub> ~a×HI@g~a	2	✕ SILA <sub>3</sub> ~a , 𒈗 HI@g~a
𒈗	SILA <sub>3</sub> ~a×IB~a	2	✕ SILA <sub>3</sub> ~a , 𒈗 IB~a
𒈗	SILA <sub>3</sub> ~a×KAŠ~a	2	✕ SILA <sub>3</sub> ~a , 𒈗 KAŠ~a
𒈗	SILA <sub>3</sub> ~a×KAŠ~c	2	✕ SILA <sub>3</sub> ~a , 𒈗 KAŠ~c
𒈗	SILA <sub>3</sub> ~a×KAŠ~d	2	✕ SILA <sub>3</sub> ~a , 𒈗 KAŠ~d
𒈗	SILA <sub>3</sub> ~a×KU <sub>6</sub> ~a	2	✕ SILA <sub>3</sub> ~a , 𒈗 KU <sub>6</sub> ~a
𒈗	SILA <sub>3</sub> ~a×KUR~a	2	✕ SILA <sub>3</sub> ~a , 𒈗 KUR~a
𒈗	SILA <sub>3</sub> ~a×MA~v1	2	✕ SILA <sub>3</sub> ~a , 𒈗 MA~v1
+	SILA <sub>3</sub> ~a×MAŠ	2	✕ SILA <sub>3</sub> ~a , + MAŠ
𒈗	SILA <sub>3</sub> ~a×NAGA~a	2	✕ SILA <sub>3</sub> ~a , 𒈗 NAGA~a
𒈗	SILA <sub>3</sub> ~a×NI~a	2	✕ SILA <sub>3</sub> ~a , ◇ NI~a
𒈗	SILA <sub>3</sub> ~a×NUN~b	2	✕ SILA <sub>3</sub> ~a , 𒈗 NUN~b
𒈗	SILA <sub>3</sub> ~a×SUHUR	2	✕ SILA <sub>3</sub> ~a , 𒈗 SUHUR
𒈗	SILA <sub>3</sub> ~a×SUM~a~v1	2	✕ SILA <sub>3</sub> ~a , 𒈗 SUM~a~v1
𒈗	SILA <sub>3</sub> ~a×SUM~b	2	✕ SILA <sub>3</sub> ~a , 𒈗 SUM~b

Compound		Count	Components
➤➤	SILA <sub>3</sub> ~axŠE~a	2	➤ SILA <sub>3</sub> ~a , ➤— ŠE~a
▷	SILA <sub>3</sub> ~axŠE~a@t	2	➤ SILA <sub>3</sub> ~a ,   ŠE~a@t
➤➤	SILA <sub>3</sub> ~axŠU	2	➤ SILA <sub>3</sub> ~a , ╔ ŠU
▷	SILA <sub>3</sub> ~axŠU <sub>2</sub> ~b	2	➤ SILA <sub>3</sub> ~a , ↘ ŠU <sub>2</sub> ~b
➤	SILA <sub>3</sub> ~axX	2	➤ SILA <sub>3</sub> ~a ,   *X
➤➤	SILA <sub>3</sub> ~axZATU629~v1	2	➤ SILA <sub>3</sub> ~a , ➤— ZATU629~v1
❖	SILA <sub>3</sub> ~axZATU646	2	➤ SILA <sub>3</sub> ~a , ⇄ ZATU646
➤➤	SILA <sub>3</sub> ~ax(ZATU659.TU~c~v1)	3	➤ SILA <sub>3</sub> ~a , □ ZATU659 , ➤— *TU~c~v1
➤	SILA <sub>3</sub> ~ax1(N57)	2	➤ SILA <sub>3</sub> ~a , — 1(N57)
▷	SILA <sub>3</sub> ~ax1(N58)	2	➤ SILA <sub>3</sub> ~a ,   1(N58)
➤➤●	SILA <sub>3</sub> ~a~v1xDUG~a	2	➤ *SILA <sub>3</sub> ~a~v1 , ➤— DUG~a
➤➤	SILA <sub>3</sub> ~bxDUG~a	2	➤ SILA <sub>3</sub> ~b , ➤— DUG~a
➤	SILA <sub>3</sub> ~bxGUG <sub>2</sub>	2	➤ SILA <sub>3</sub> ~b ,   GUG <sub>2</sub>
➤➤	SILA <sub>3</sub> ~bxNAGA~b	2	➤ SILA <sub>3</sub> ~b , ➤— NAGA~b
➤➤	SILA <sub>3</sub> ~bxNI~b	2	➤ SILA <sub>3</sub> ~b , ▷ NI~b
➤➤	SILA <sub>3</sub> ~cxNI~a	2	➤ SILA <sub>3</sub> ~c , ▷ NI~a
➤➤	SILA <sub>3</sub> ~cxŠU	2	➤ SILA <sub>3</sub> ~c , ╔ ŠU
➤➤	SILA <sub>3</sub> ~cxZATU687	2	➤ SILA <sub>3</sub> ~c , ➤— ZATU687
➤➤	SILA <sub>3</sub> ~dxNI~a	2	➤ *SILA <sub>3</sub> ~d , ▷ NI~a
➤	SU~a~1(N58)	2	➤ SU~a ,   1(N58)
❖	(SUKUD+SUKUD)~a	1	! none

Compound		Count	Components
	(SUKUD+SUKUD)~b	1	! none
	(SUKUD+SUKUD)~c	1	! none
	(SUKUD+SUKUD)~d	1	! none
	(ŠA×HI@g~a)~a	2	ŠA,  HI@g~a
	(ŠA×HI@g~a)~b	2	ŠA,  HI@g~a
	ŠE~a.KIN₂~c	2	ŠE~a,  KIN₂~c
	ŠE~a.NAM₂	2	ŠE~a,  NAM₂
	ŠE~a.NAM₂  ~v1	2	ŠE~a,  NAM₂
	ŠE~a&ŠE~a	2	ŠE~a,  ŠE~a
	ŠEN~d×A	2	ŠEN~d,  A
	ŠITA~a1×KAK~a	2	ŠITA~a1,  KAK~a
	ŠITA~a1×ŠU	2	ŠITA~a1,  ŠU
	ŠITA~a1×ŠU₂~b	2	ŠITA~a1,  ŠU₂~b
	ŠITA~a1×UDU~a	2	ŠITA~a1,  UDU~a
	ŠITA~a1×1(N06)	2	ŠITA~a1,  1(N06)
	ŠITA~b2@g×HI@g~a	2	*ŠITA~b2@g,  HI@g~a
	ŠITA~b3×NAM₂	2	ŠITA~b3,  NAM₂
	ŠITA~b3@g×1(N04)	2	ŠITA~b3@g,  1(N04)
	ŠITA~b3@g×1(N06)	2	ŠITA~b3@g,  1(N06)
	ŠU×1(N58)	2	ŠU,  1(N58)
	ŠU&ŠU	2	ŠU,  ŠU

Compound		Count	Components
〈*	ŠU₂~a.AN	2	⟨ ŠU₂~a , * AN
〈𒃩	ŠU₂~a.EN~a~v1	2	⟨ ŠU₂~a , ගܰ EN~a~v1
〈ܰ	ŠU₂~a.EN~a~v2	2	⟨ ŠU₂~a , ගܰ EN~a~v2
〈ܰ	ŠU₂~a.EN~b~v1	2	⟨ ŠU₂~a , ගܰ EN~b~v1
ܰ	ŠU₂~a.(HI×1(N57))&(HI×1(N57))	5	⟨ ŠU₂~a , ◇ HI , − 1(N57) , ◇ HI , − 1(N57)
ܰ	ŠU₂~a.URI₃~a~v1	2	⟨ ŠU₂~a , ගܰ URI₃~a~v1
ܰ	ŠU₂~b.E₂~a	2	⟨ ŠU₂~b , ගܰ E₂~a
ܰ	ŠU₂~b.E₂~b	2	⟨ ŠU₂~b , ගܰ E₂~b
ܰ	ŠU₂~b.GIŠ	2	⟨ ŠU₂~b , ගܰ GIŠ
ܰ	ŠU₂~b.1(N02)	2	⟨ ŠU₂~b , ≡ 1(N02)
ܰ	ŠU₂~b.2(N57)	2	⟨ ŠU₂~b , = 2(N57)
ܰ	TA~d×MAŠ	2	ܰ TA~d , + MAŠ
ܰ	TUG₂~a.(BAD&BAD)	3	ܰ TUG₂~a , ≈ BAD , ≈ BAD
ܰ	TUR~v1×X	2	ܰ TUR~v1 , * X
ܰ	TUR₃~b×TAK₄~a	2	ܰ TUR₃~b , ගܰ TAK₄~a
ܰ	U₄.ŠU₂~b	2	ܰ U₄ , ⟨ ŠU₂~b
ܰ	U₄.1(N08)	2	ܰ U₄ , ≈ 1(N08)
ܰ	U₄.2(N08)	2	ܰ U₄ , ≈ 2(N08)
ܰ	U₄.3(N08)	2	ܰ U₄ , ≈ 3(N08)
ܰ	U₄.4(N08)~v1	2	ܰ U₄ , ≈ *4(N08)~v1
ܰ	U₄.5(N08)	2	ܰ U₄ , ≈ 5(N08)

Compound		Count	Components
❖	U <sub>4</sub> .6(N08)	2	❖ U <sub>4</sub> , ❖ 6(N08)
❖	U <sub>4</sub> .7(N08)	2	❖ U <sub>4</sub> , ❖ 7(N08)
❖	U <sub>4</sub> .8(N08)	2	❖ U <sub>4</sub> , ❖ 8(N08)
❖	U <sub>4</sub> .1(N14)	2	❖ U <sub>4</sub> , • 1(N14)
❖	U <sub>4</sub> .(1(N14).3(N08))	3	❖ U <sub>4</sub> , • 1(N14), ❖ 3(N08)
❖	U <sub>4</sub> .(1(N14).4(N08))	3	❖ U <sub>4</sub> , • 1(N14), ❖ 4(N08)
❖	U <sub>4</sub> .(1(N14).5(N08))	3	❖ U <sub>4</sub> , • 1(N14), ❖ 5(N08)
❖	U <sub>4</sub> .(1(N14).8(N08))	3	❖ U <sub>4</sub> , • 1(N14), ❖ 8(N08)
❖	U <sub>4</sub> .2(N14)	2	❖ U <sub>4</sub> , ♦ 2(N14)
❖	U <sub>4</sub> ×X	2	❖ U <sub>4</sub> , ❁ *X
❖	U <sub>4</sub> ×(X+2(N01))	3	❖ U <sub>4</sub> , ❁ *X, □ 2(N01)
❖	U <sub>4</sub> ×1(N01)	2	❖ U <sub>4</sub> , □ 1(N01)
❖	U <sub>4</sub> ×1(N01).5(N08)	3	❖ U <sub>4</sub> , □ 1(N01), ❖ 5(N08)
❖	U <sub>4</sub> ×2(N01)	2	❖ U <sub>4</sub> , □ 2(N01)
❖	U <sub>4</sub> ×2(N01).X	3	❖ U <sub>4</sub> , □ 2(N01), ❁ *X
❖	U <sub>4</sub> ×2(N01).2(N14)	3	❖ U <sub>4</sub> , □ 2(N01), ♦ 2(N14)
❖	U <sub>4</sub> ×2(N01).(2(N14).1(N08))	4	❖ U <sub>4</sub> , □ 2(N01), ♦ 2(N14), △ 1(N08)
❖	U <sub>4</sub> ×3(N01)	2	❖ U <sub>4</sub> , □ 3(N01)
❖	U <sub>4</sub> ×3(N01).3(N08)~v1	3	❖ U <sub>4</sub> , □ 3(N01), △ *3(N08)~v1
❖	U <sub>4</sub> ×4(N01)	2	❖ U <sub>4</sub> , □ 4(N01)
❖	U <sub>4</sub> ×4(N01).2(N14)	3	❖ U <sub>4</sub> , □ 4(N01), ♦ 2(N14)

Compound		Count	Components
❖	U <sub>4</sub> ×5(N01)	2	❖ U <sub>4</sub> , ❖ 5(N01)
❖•	U <sub>4</sub> ×5(N01).1(N14)	3	❖ U <sub>4</sub> , ❖ 5(N01), • 1(N14)
❖	U <sub>4</sub> ×6(N01)	2	❖ U <sub>4</sub> , ❖ 6(N01)
❖	U <sub>4</sub> ×8(N01)	2	❖ U <sub>4</sub> , ❖ 8(N01)
❖	U <sub>4</sub> ×8(N01).X	3	❖ U <sub>4</sub> , ❖ 8(N01), □ *X
❖	U <sub>4</sub> ×N(N01)	2	❖ U <sub>4</sub> , □ *N(N01)
❖	U <sub>4</sub> ×1(N01@f)	2	❖ U <sub>4</sub> , □ 1(N01@f)
❖	U <sub>4</sub> ×1(N14)	2	❖ U <sub>4</sub> , • 1(N14)
❖	U <sub>4</sub> ×(1(N14).2(N01))	3	❖ U <sub>4</sub> , • 1(N14), ❖ 2(N01)
❖	U <sub>4</sub> ×(1(N14).4(N01))	3	❖ U <sub>4</sub> , • 1(N14), ❖ 4(N01)
❖	U <sub>4</sub> ×(1(N14).8(N01))	3	❖ U <sub>4</sub> , • 1(N14), ❖ 8(N01)
❖	U <sub>4</sub> ×2(N14)	2	❖ U <sub>4</sub> , ♪ 2(N14)
❖	U <sub>4</sub> ×(2(N14).4(N01))	3	❖ U <sub>4</sub> , ♪ 2(N14), ❖ 4(N01)
❖	U <sub>4</sub> ×(3(N14).2(N01))	3	❖ U <sub>4</sub> , ♪ 3(N14), ❖ 2(N01)
❖	U <sub>4</sub> ×(3(N14).7(N01))	3	❖ U <sub>4</sub> , ♪ 3(N14), ❖ 7(N01)
❖	U <sub>4</sub> ×1(N57)	2	❖ U <sub>4</sub> , − 1(N57)
❖	U <sub>4</sub> ×2(N57)	2	❖ U <sub>4</sub> , = 2(N57)
❖	U <sub>4</sub> ×3(N57)	2	❖ U <sub>4</sub> , ≡ 3(N57)
❖	U <sub>4</sub> ×4(N57)	2	❖ U <sub>4</sub> , ≡ 4(N57)
❖	U <sub>4</sub> ×5(N57)	2	❖ U <sub>4</sub> , ≡ 5(N57)
❖	U <sub>4</sub> ×6(N57)	2	❖ U <sub>4</sub> , ≡ 6(N57)

Compound		Count	Components
❖	U <sub>4</sub> ×7(N57)	2	❖ U <sub>4</sub> , ≡≡ 7(N57)
❖	U <sub>4</sub> ×8(N57)	2	❖ U <sub>4</sub> , ===== 8(N57)
❖	U <sub>4</sub> ×10(N57)	2	❖ U <sub>4</sub> , ===== 10(N57)
❖	U <sub>4</sub> ×1(N58@t)	2	❖ U <sub>4</sub> , \ 1(N58@t)
⊕	U <sub>8</sub> ×TAR~b	2	⊕ U <sub>8</sub> , + *TAR~b
⊕	UDU~a×TAR~a	2	⊕ UDU~a,    TAR~a
⊕	UDU~a×TAR~b	2	⊕ UDU~a, + *TAR~b
⊖	UKKIN~b×DIN	2	⊖ UKKIN~b, ▷ DIN
⊖	UKKIN~b×(DIN.1(N01))	3	⊖ UKKIN~b, ▷ DIN, ▷ 1(N01)
⊖	UKKIN~b×DUG~a	2	⊖ UKKIN~b, ⊖▷ DUG~a
⊖	UKKIN~b×HI@g~a	2	⊖ UKKIN~b, ◆ HI@g~a
⊖	UKKIN~b×NI~a	2	⊖ UKKIN~b, ▷ NI~a
⊖	UKKIN~b×X	2	⊖ UKKIN~b, ◇ *X
⊖	UKKIN~b×2(N01)	2	⊖ UKKIN~b, ▷ 2(N01)
⊖	UKKIN~b×3(N01)	2	⊖ UKKIN~b, ▷ 3(N01)
⊖	UKKIN~b×5(N01)	2	⊖ UKKIN~b, ▷ 5(N01)
◀	UNUG~a~v1×A@t	2	◀ UNUG~a~v1, ≈ A@t
◀	UR~a×KAR <sub>2</sub> ~b	2	◀ UR~a, █ KAR <sub>2</sub> ~b
◀	UR <sub>2</sub> ×TAR~c	2	◀ UR <sub>2</sub> , > *TAR~c
◀	UR <sub>2</sub> ×1(N57)	2	◀ UR <sub>2</sub> , - 1(N57)
█	UR <sub>3</sub> ~b1×MAŠ	2	█ UR <sub>3</sub> ~b1, + MAŠ

Compound		Count	Components
	URI <sub>3</sub> ~a+IB~a	2	
	URU~a1xA	2	
	URU~a1xAMAR~v2	2	
	URU~a1xGU <sub>4</sub>	2	
	URU~a1xHI@g~a	2	
	URU~a1xNIMGIR	2	
	URU~a1xU <sub>4</sub>	2	
	URU~a1xX	2	
	URU~a1x1(N57)	2	
	URU~a1x2(N57)	2	
	URU~a2x1(N58)	2	
	URU~a3xKALAM~a	2	
	USh~a&USh~a	2	
	USh~b x TAR~c	2	
	USh~b x TAR~d	2	
	USh~b&USh~b	2	
	USh~b~v2 x TAR~c	2	
	ZATU644~a x 1(N14)	2	
	ZATU651 x AN	2	
	ZATU651 x EN~a~v2	2	
	ZATU651 x GAR	2	

Compound		Count	Components
	ZATU651xMA	2	ZATU651,  MA
	ZATU651xNUN~a	2	ZATU651,  NUN~a
	ZATU651xX	2	ZATU651,  *X
	ZATU651xZAR~c	2	ZATU651,  ZAR~c
	ZATU651~v2xSE~a	2	ZATU651~v2,  SE~a
	ZATU659x1(N01)	2	ZATU659,  1(N01)
	ZATU659x1(N14)	2	ZATU659,  • 1(N14)
	ZATU659x1(N58@t)	2	ZATU659,  \ 1(N58@t)
	ZATU662x1(N14)	2	ZATU662,  • 1(N14)
	ZATU662~v1x1(N14)	2	ZATU662~v1,  • 1(N14)
	ZATU662~v2x1(N14)	2	ZATU662~v2,  • 1(N14)
	ZATU711~v1xHI@g~a	2	ZATU711~v1,  HI@g~a
	ZATU711~v1xX	2	ZATU711~v1,  *X
	ZATU714.RU	2	ZATU714,  RU
	ZATU714xHI@g~a	2	ZATU714,  HI@g~a
	ZATU714xX	2	ZATU714,  *X
	ZATU737xAB~a	2	ZATU737,  AB~a
	ZATU737xBU~a	2	ZATU737,  BU~a
	ZATU737xBUR~a	2	ZATU737,  BUR~a
	ZATU737xDI	2	ZATU737,  DI
	ZATU737xE~a	2	ZATU737,  E~a

Compound		Count	Components
☒	ZATU737×EN~a~v2	2	☒ ZATU737 , ☐ EN~a~v2
☒	ZATU737×GAR	2	☒ ZATU737 , ▷ GAR
☒	ZATU737×NI~a@g	2	☒ ZATU737 , ☜ NI~a@g
☒	ZATU737×NIMGIR	2	☒ ZATU737 , ☐ NIMGIR
☒	ZATU737×SU~a	2	☒ ZATU737 , ☛ SU~a
☒	ZATU737×ŠE~a	2	☒ ZATU737 , ➤ ŠE~a
☒	ZATU737×ŠITA~a1	2	☒ ZATU737 , ▷ ŠITA~a1
☒	ZATU737×ŠITA~b1@g	2	☒ ZATU737 , ▷ ŠITA~b1@g
☒	ZATU737×UNUG~a~v1	2	☒ ZATU737 , ☛ UNUG~a~v1
☒	ZATU737~v1×EN~b~v1	2	☒ ZATU737~v1 , ➤ EN~b~v1
☒	ZATU737~v1×GAR	2	☒ ZATU737~v1 , ▷ GAR
☒	ZATU737~v2×DI	2	☒ ZATU737~v2 , ☈ DI
☒	ZATU737~v2×X	2	☒ ZATU737~v2 , ☐ *X
☒	ZATU737~v3×SAL	2	☒ *ZATU737~v3 , ▷ SAL
☒	ZATU737~v3×U₄	2	☒ *ZATU737~v3 , ♂ U₄
☒	ZATU759×KU₆~a	2	☒ ZATU759 , ☈ KU₆~a
☒	ZATU759×(KU₆~a+KU₆~a)	3	☒ ZATU759 , ☈ KU₆~a , ☈ KU₆~a
☒	ZATU759×KU₆~d	2	☒ ZATU759 , ☈ KU₆~d
☒	ZATU759×X	2	☒ ZATU759 , ☐ *X
☒	ZATU759@t×X	2	☒ *ZATU759@t , ☐ *X
☒	ZATU762~a×NIM~a	2	☒ ZATU762~a , ☐ NIM~a



Compound		Count	Components
	4(N57).AMAR	2	$\equiv 4(N57), \supseteq AMAR$
	4(N57).GAR	2	$\equiv 4(N57), \triangleright GAR$
	4(N57).KU <sub>3</sub> ~a	2	$\equiv 4(N57), \ddot{\wedge} KU_3\sim a$
	4(N57).NI~b	2	$\equiv 4(N57), \triangleright NI\sim b$
	5(N57).GAR	2	$\equiv 5(N57), \triangleright GAR$
	5(N57).KU <sub>3</sub> ~a	2	$\equiv 5(N57), \ddot{\wedge} KU_3\sim a$
	6(N57).GAR	2	$\equiv\equiv 6(N57), \triangleright GAR$
	6(N57).KU <sub>3</sub> ~a	2	$\equiv\equiv 6(N57), \ddot{\wedge} KU_3\sim a$
	8(N57).NI~b	2	$\equiv\equiv\equiv 8(N57), \triangleright NI\sim b$
	1(N58).BAD	2	$\vdash 1(N58), \negleftarrow BAD$
	1(N58)~a.BAD	2	$\vdash *1(N58)\sim a, \negleftarrow BAD$
	1(N58)~a.BAD~a	2	$\vdash *1(N58)\sim a, \rightleftharpoons *BAD\sim a$
	3(N58).UR <sub>3</sub> ~b1	2	$\Vdash 3(N58), \boxdot UR_3\sim b1$
	1(N08@f)×1(N57)	2	$\Box 1(N08@f), \dashv 1(N57)$
	1(N34)×1(N58)	2	$\Box 1(N34), \vdash 1(N58)$
	1(N57).1(N57)	2	$\dashv 1(N57), \dashv 1(N57)$

## 10 References

- Englund, Robert K. 2004. "Proto-Cuneiform Account-Books and Journals". *Creating Economic Order: Record-keeping, Standardization and the Development of Accounting in the Ancient Near East*, Michael Hudson and Cornelia Wunsch [eds.], pp. 23–46. Bethesda, Maryland: CDL Press.  
<http://cdli.ucla.edu/staff/englund/publications/englund2004a.pdf>
- Everson, Michael; Feuerherm, Karljürgen. 2003. "Basic principles for the encoding of Sumero-Akkadian Cuneiform" (WG2 N2585, L2/03-162).  
<http://www.unicode.org/L2/L2003/03162-n2585-cuneiform.pdf>
- Everson, Michael; Hawkins, Laura F. 2016. "Preliminary proposal to encode Proto-Cuneiform in the SMP of the UCS" (WG2 N4760, L2/16-267)  
<http://www.unicode.org/L2/L2016/16267-n4760-proto-cuneiform.pdf>
- . 2017. "Proposal to encode Proto-Cuneiform in the SMP of the UCS" (WG2 N4797, L2/17-157)  
<http://www.unicode.org/L2/L2017/17157-n4797-proto-cuneiform.pdf>
- Hawkins, Laura. 2019. "Proposal to Encode Proto-Cuneiform in the SMP of the UCS" (L2/19-284)  
<http://www.unicode.org/L2/L2019/19284-proto-cuneiform.pdf>
- Leroy, Robin. 2024. "Archaic Cuneiform Numerals" (L2/24-210)
- Nissen, Hans-Jörg; Damerow, Peter; Englund, Robert K. 1993. *Archaic Bookkeeping: Early Writing and Techniques of Economic Administration in the Ancient Near East*. Chicago: University of Chicago Press.
- Pandey, Anshuman. 2021. "Preliminary proposal to encode Proto-Cuneiform in Unicode" (L2/20-193)  
<https://www.unicode.org/L2/L2020/20193-proto-cuneiform.pdf>
- . 2022. "Revised proposal to encode Proto-Cuneiform in Unicode" (L2/22-239)  
<https://www.unicode.org/L2/L2022/22239-proto-cuneiform.pdf>
- . 2023. "Revised proposal to encode Proto-Cuneiform in Unicode" (L2/23-190)  
<https://www.unicode.org/L2/L2023/23190-proto-cuneiform.pdf>
- Tinney, Stephen J. 2024. "Comments on L2/23-190 Revised proposal to encode Proto-Cuneiform in Unicode" (L2/24-211).  
<https://www.unicode.org/L2/L2024/24211-proto-cuneiform-comments.pdf>
- Woods, Christopher; Emberling, Geoff; Teeter, Emily. 2010. *Visible Language: Inventions of Writing in the Ancient Middle East and Beyond*. Chicago: Oriental Institute of the University of Chicago.

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## **Afterword**

Just as Proto-Cuneiform emerged in a land between two rivers, so did this proposal to include it in Unicode. I discovered this writing system from the articles of the late Robert Englund and his CDLI sign list. I never met him. But, I recently learned that Englund grew up in a town in eastern Washington, between the Columbia and Yakima rivers. As did I, at the confluence of these rivers some miles to the east. It is humbling that two strangers from the Columbia Basin were drawn to the world's first writing system, and that their work converged to create this Unicode encoding. There must be something in the water. — AP