

Universal Multiple-Octet Coded Character Set  
International Organization for Standardization  
Organisation Internationale de Normalisation  
Международная организация по стандартизации

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**Title:** Proposal to encode Proto-Cuneiform in the SMP of the UCS  
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**1. Introduction.** Proto-cuneiform is the earliest form of the cuneiform script, the earliest writing system attested in history. It emerged towards the end of the fourth millennium B.C. in ancient Babylonia, a region of Mesopotamia that corresponds with the southern part of modern-day Iraq. The signs that made up this writing system were impressed with the aid of a stylus, usually made from reed, into the still soft surface of clay tablets. These clay tablets naturally dried and hardened in the arid and hot climate, and as a result they survived in great numbers. The early version of this script developed into the later cuneiform script that became the hallmark of Mesopotamian history and culture; hence the name “proto-cuneiform” has been accepted by most scholars to designate the most archaic version of script.

The German Archaeological Institute unearthed most of the tablets of this early phase of cuneiform history during their excavations at the ancient city of Uruk in lower Babylonia between 1913 and 1967. During the seasons from 1928 until 1976, nearly 5000 tablets and fragments were discovered, forming the basis for a long-term research project dedicated to the decipherment and edition of these texts. The periods in which proto-cuneiform is attested are often referred to as the Uruk periods (e.g., Uruk V, ca. 3500-3350 BCE; Uruk IV, ca. 3350-3200 BCE; Uruk III, ca. 3200–3000 BCE), after the excavation layers to which the tablets have been assigned (all tablets and fragments were found in trash deposits outside of secure stratigraphy, but within or below Uruk III). The tablets from Uruk, however, are not the only proto-cuneiform documents known from this period. Similar tablets have been found in the northern Babylonian sites of Jemdet Nasr, Khafaje, and Tell Uqair. Although the tablets from these sites are smaller in number compared to the Uruk corpus, they have aided in the advancement of our understanding of this early period in cuneiform’s history.

**2. Basis of the repertoire and methodology.** This proposal covers the most commonly occurring 200 Proto-cuneiform lexical and administrative signs that appear within the nearly 4900 texts from the Uruk III period, including Jemdat Nasr. Of these texts, 703 are lexical texts and 4167 are administrative (the genres of the final five texts are catalogued as “legal”, “literary”, “school”, “uncertain”, and “votive”; these were not included here). Other characters are not proposed here pending further study; the 200 characters constitute high-frequency characters. This proposal also includes 64 characters with numeric use.

The signs were culled from the available texts in the database of the Cuneiform Digital Library Initiative (CDLI); and although this database represents the most comprehensive corpus of proto-cuneiform texts ever put together, the signs included in these lists were checked against previous published sign lists (Green and Nissen 1987; Englund, Damerow, and Nissen 1993; Englund and Boehmer 1994).

**3. Glyphs, names, and ordering.** The glyphs were originally drawn by R. K. Englund.<sup>1</sup> The signs are oriented according to their counterparts' orientation in later cuneiform, as per convention. The proposed names are based on each sign's traditional name, with slight differences in order to abide by the common UCS naming conventions. The sign order is alphabetical. This coincides with the order in the published sign list of Green and Nissen (1987).

**4. Unicode Character Properties.** Character properties for the new characters are proposed here.

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12600;PROTO-CUNEIFORM SIGN A;Lo;0;L;;;;N;;;;;
12601;PROTO-CUNEIFORM SIGN AB-A;Lo;0;L;;;;N;;;;;
12602;PROTO-CUNEIFORM SIGN AB-B;Lo;0;L;;;;N;;;;;
12603;PROTO-CUNEIFORM SIGN AB2;Lo;0;L;;;;N;;;;;
12604;PROTO-CUNEIFORM SIGN ABGAL;Lo;0;L;;;;N;;;;;
12605;PROTO-CUNEIFORM SIGN AD-A;Lo;0;L;;;;N;;;;;
12606;PROTO-CUNEIFORM SIGN AGAR2;Lo;0;L;;;;N;;;;;
12607;PROTO-CUNEIFORM SIGN AK-A;Lo;0;L;;;;N;;;;;
12608;PROTO-CUNEIFORM SIGN AL;Lo;0;L;;;;N;;;;;
12609;PROTO-CUNEIFORM SIGN AMA-A;Lo;0;L;;;;N;;;;;
1260A;PROTO-CUNEIFORM SIGN AMAR;Lo;0;L;;;;N;;;;;
1260B;PROTO-CUNEIFORM SIGN AN;Lo;0;L;;;;N;;;;;
1260C;PROTO-CUNEIFORM SIGN ANSHE-B;Lo;0;L;;;;N;;;;;
1260D;PROTO-CUNEIFORM SIGN APIN-A;Lo;0;L;;;;N;;;;;
1260E;PROTO-CUNEIFORM SIGN BA;Lo;0;L;;;;N;;;;;
1260F;PROTO-CUNEIFORM SIGN BAD-A;Lo;0;L;;;;N;;;;;
12610;PROTO-CUNEIFORM SIGN BALA-A;Lo;0;L;;;;N;;;;;
12611;PROTO-CUNEIFORM SIGN BAR;Lo;0;L;;;;N;;;;;
12612;PROTO-CUNEIFORM SIGN BU-A;Lo;0;L;;;;N;;;;;
12613;PROTO-CUNEIFORM SIGN DA-A;Lo;0;L;;;;N;;;;;
12614;PROTO-CUNEIFORM SIGN DARA4-A1;Lo;0;L;;;;N;;;;;
12615;PROTO-CUNEIFORM SIGN DI;Lo;0;L;;;;N;;;;;
12616;PROTO-CUNEIFORM SIGN DIM-C;Lo;0;L;;;;N;;;;;
12617;PROTO-CUNEIFORM SIGN DIN;Lo;0;L;;;;N;;;;;
12618;PROTO-CUNEIFORM SIGN DU;Lo;0;L;;;;N;;;;;
12619;PROTO-CUNEIFORM SIGN DU6-B;Lo;0;L;;;;N;;;;;
1261A;PROTO-CUNEIFORM SIGN DUB-A;Lo;0;L;;;;N;;;;;
1261B;PROTO-CUNEIFORM SIGN DUG-A;Lo;0;L;;;;N;;;;;
1261C;PROTO-CUNEIFORM SIGN DUG-B;Lo;0;L;;;;N;;;;;
1261D;PROTO-CUNEIFORM SIGN DUG-B TIMES SIG7;Lo;0;L;;;;N;;;;;
1261E;PROTO-CUNEIFORM SIGN DUG-C;Lo;0;L;;;;N;;;;;
1261F;PROTO-CUNEIFORM SIGN DUR2;Lo;0;L;;;;N;;;;;
12620;PROTO-CUNEIFORM SIGN E2-A;Lo;0;L;;;;N;;;;;
12621;PROTO-CUNEIFORM SIGN E2-B;Lo;0;L;;;;N;;;;;
12622;PROTO-CUNEIFORM SIGN EN-A;Lo;0;L;;;;N;;;;;
12623;PROTO-CUNEIFORM SIGN ERIM-A;Lo;0;L;;;;N;;;;;
12624;PROTO-CUNEIFORM SIGN ERIN;Lo;0;L;;;;N;;;;;
12625;PROTO-CUNEIFORM SIGN EZEN-B;Lo;0;L;;;;N;;;;;
12626;PROTO-CUNEIFORM SIGN GAAR-A1;Lo;0;L;;;;N;;;;;
12627;PROTO-CUNEIFORM SIGN GA-A;Lo;0;L;;;;N;;;;;
12628;PROTO-CUNEIFORM SIGN GA-B;Lo;0;L;;;;N;;;;;
12629;PROTO-CUNEIFORM SIGN GA2-A1;Lo;0;L;;;;N;;;;;
1262A;PROTO-CUNEIFORM SIGN GADA-A;Lo;0;L;;;;N;;;;;
1262B;PROTO-CUNEIFORM SIGN GAL-A;Lo;0;L;;;;N;;;;;
1262C;PROTO-CUNEIFORM SIGN GAN-A;Lo;0;L;;;;N;;;;;
1262D;PROTO-CUNEIFORM SIGN GAN-B;Lo;0;L;;;;N;;;;;
1262E;PROTO-CUNEIFORM SIGN GAN2;Lo;0;L;;;;N;;;;;
1262F;PROTO-CUNEIFORM SIGN GAR;Lo;0;L;;;;N;;;;;
12630;PROTO-CUNEIFORM SIGN GARA2-A;Lo;0;L;;;;N;;;;;
12631;PROTO-CUNEIFORM SIGN GAZI;Lo;0;L;;;;N;;;;;
12632;PROTO-CUNEIFORM SIGN GI;Lo;0;L;;;;N;;;;;
12633;PROTO-CUNEIFORM SIGN GI OVER GI;Lo;0;L;;;;N;;;;;
12634;PROTO-CUNEIFORM SIGN GI6;Lo;0;L;;;;N;;;;;
12635;PROTO-CUNEIFORM SIGN GIBIL;Lo;0;L;;;;N;;;;;
12636;PROTO-CUNEIFORM SIGN GIR2-A;Lo;0;L;;;;N;;;;;
12637;PROTO-CUNEIFORM SIGN GIR3-GUNU-B;Lo;0;L;;;;N;;;;;
12638;PROTO-CUNEIFORM SIGN GIR3-C;Lo;0;L;;;;N;;;;;
12639;PROTO-CUNEIFORM SIGN GISH;Lo;0;L;;;;N;;;;;
1263A;PROTO-CUNEIFORM SIGN GISH3;Lo;0;L;;;;N;;;;;
1263B;PROTO-CUNEIFORM SIGN GISHIMMAR-B1;Lo;0;L;;;;N;;;;;
1263C;PROTO-CUNEIFORM SIGN GU;Lo;0;L;;;;N;;;;;
1263D;PROTO-CUNEIFORM SIGN GU4;Lo;0;L;;;;N;;;;;
1263E;PROTO-CUNEIFORM SIGN GU7;Lo;0;L;;;;N;;;;;
1263F;PROTO-CUNEIFORM SIGN GUG2;Lo;0;L;;;;N;;;;;
12640;PROTO-CUNEIFORM SIGN HAL;Lo;0;L;;;;N;;;;;
12641;PROTO-CUNEIFORM SIGN HASHHUR;Lo;0;L;;;;N;;;;;
12642;PROTO-CUNEIFORM SIGN HI;Lo;0;L;;;;N;;;;;
12643;PROTO-CUNEIFORM SIGN HI AT G-A;Lo;0;L;;;;N;;;;;

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1 Proto-cuneiform signs in postscript format (CS 4), <http://cdli.ucla.edu/?q=downloads>.

12644;PROTO-CUNEIFORM SIGN IB-A;Lo;0;L;;;;;N;;;;;  
12645;PROTO-CUNEIFORM SIGN IM-A;Lo;0;L;;;;;N;;;;;  
12646;PROTO-CUNEIFORM SIGN IN-B;Lo;0;L;;;;;N;;;;;  
12647;PROTO-CUNEIFORM SIGN IR-A;Lo;0;L;;;;;N;;;;;  
12648;PROTO-CUNEIFORM SIGN ISH-B;Lo;0;L;;;;;N;;;;;  
12649;PROTO-CUNEIFORM SIGN KA-A;Lo;0;L;;;;;N;;;;;  
1264A;PROTO-CUNEIFORM SIGN KAB;Lo;0;L;;;;;N;;;;;  
1264B;PROTO-CUNEIFORM SIGN KAK-A;Lo;0;L;;;;;N;;;;;  
1264C;PROTO-CUNEIFORM SIGN KAR2-A;Lo;0;L;;;;;N;;;;;  
1264D;PROTO-CUNEIFORM SIGN KAR2-B;Lo;0;L;;;;;N;;;;;  
1264E;PROTO-CUNEIFORM SIGN KASH-A;Lo;0;L;;;;;N;;;;;  
1264F;PROTO-CUNEIFORM SIGN KASH-B;Lo;0;L;;;;;N;;;;;  
12650;PROTO-CUNEIFORM SIGN KASH-C;Lo;0;L;;;;;N;;;;;  
12651;PROTO-CUNEIFORM SIGN KI;Lo;0;L;;;;;N;;;;;  
12652;PROTO-CUNEIFORM SIGN KID-A;Lo;0;L;;;;;N;;;;;  
12653;PROTO-CUNEIFORM SIGN KID-B;Lo;0;L;;;;;N;;;;;  
12654;PROTO-CUNEIFORM SIGN KISAL-B1;Lo;0;L;;;;;N;;;;;  
12655;PROTO-CUNEIFORM SIGN KISIM-A;Lo;0;L;;;;;N;;;;;  
12656;PROTO-CUNEIFORM SIGN KISH;Lo;0;L;;;;;N;;;;;  
12657;PROTO-CUNEIFORM SIGN KISHIK-A;Lo;0;L;;;;;N;;;;;  
12658;PROTO-CUNEIFORM SIGN KU-B1;Lo;0;L;;;;;N;;;;;  
12659;PROTO-CUNEIFORM SIGN KU3-A;Lo;0;L;;;;;N;;;;;  
1265A;PROTO-CUNEIFORM SIGN KU6-A;Lo;0;L;;;;;N;;;;;  
1265B;PROTO-CUNEIFORM SIGN KUR-A;Lo;0;L;;;;;N;;;;;  
1265C;PROTO-CUNEIFORM SIGN LA-2;Lo;0;L;;;;;N;;;;;  
1265D;PROTO-CUNEIFORM SIGN LAGAB-A;Lo;0;L;;;;;N;;;;;  
1265E;PROTO-CUNEIFORM SIGN LAGAR-A;Lo;0;L;;;;;N;;;;;  
1265F;PROTO-CUNEIFORM SIGN MA;Lo;0;L;;;;;N;;;;;  
12660;PROTO-CUNEIFORM SIGN MAR-A;Lo;0;L;;;;;N;;;;;  
12661;PROTO-CUNEIFORM SIGN MASH;Lo;0;L;;;;;N;;;;;  
12662;PROTO-CUNEIFORM SIGN MASH2;Lo;0;L;;;;;N;;;;;  
12663;PROTO-CUNEIFORM SIGN ME-A;Lo;0;L;;;;;N;;;;;  
12664;PROTO-CUNEIFORM SIGN MES;Lo;0;L;;;;;N;;;;;  
12665;PROTO-CUNEIFORM SIGN MU;Lo;0;L;;;;;N;;;;;  
12666;PROTO-CUNEIFORM SIGN MUD;Lo;0;L;;;;;N;;;;;  
12667;PROTO-CUNEIFORM SIGN MUD3-A;Lo;0;L;;;;;N;;;;;  
12668;PROTO-CUNEIFORM SIGN MUNU3;Lo;0;L;;;;;N;;;;;  
12669;PROTO-CUNEIFORM SIGN MUSH-A;Lo;0;L;;;;;N;;;;;  
1266A;PROTO-CUNEIFORM SIGN MUSHEN;Lo;0;L;;;;;N;;;;;  
1266B;PROTO-CUNEIFORM SIGN NA-A;Lo;0;L;;;;;N;;;;;  
1266C;PROTO-CUNEIFORM SIGN NA2-A;Lo;0;L;;;;;N;;;;;  
1266D;PROTO-CUNEIFORM SIGN NAGA-A;Lo;0;L;;;;;N;;;;;  
1266E;PROTO-CUNEIFORM SIGN NAGAR-A;Lo;0;L;;;;;N;;;;;  
1266F;PROTO-CUNEIFORM SIGN NAGAR-B;Lo;0;L;;;;;N;;;;;  
12670;PROTO-CUNEIFORM SIGN NAM2;Lo;0;L;;;;;N;;;;;  
12671;PROTO-CUNEIFORM SIGN NAMESHDA;Lo;0;L;;;;;N;;;;;  
12672;PROTO-CUNEIFORM SIGN NAR;Lo;0;L;;;;;N;;;;;  
12673;PROTO-CUNEIFORM SIGN NE-A;Lo;0;L;;;;;N;;;;;  
12674;PROTO-CUNEIFORM SIGN NESAG2-A;Lo;0;L;;;;;N;;;;;  
12675;PROTO-CUNEIFORM SIGN NI-A;Lo;0;L;;;;;N;;;;;  
12676;PROTO-CUNEIFORM SIGN NI-A RU;Lo;0;L;;;;;N;;;;;  
12677;PROTO-CUNEIFORM SIGN NI-B;Lo;0;L;;;;;N;;;;;  
12678;PROTO-CUNEIFORM SIGN NIM-A;Lo;0;L;;;;;N;;;;;  
12679;PROTO-CUNEIFORM SIGN NIM-B1;Lo;0;L;;;;;N;;;;;  
1267A;PROTO-CUNEIFORM SIGN NIMGIR;Lo;0;L;;;;;N;;;;;  
1267B;PROTO-CUNEIFORM SIGN NIN;Lo;0;L;;;;;N;;;;;  
1267C;PROTO-CUNEIFORM SIGN NU;Lo;0;L;;;;;N;;;;;  
1267D;PROTO-CUNEIFORM SIGN NUN-A;Lo;0;L;;;;;N;;;;;  
1267E;PROTO-CUNEIFORM SIGN NUN-B;Lo;0;L;;;;;N;;;;;  
1267F;PROTO-CUNEIFORM SIGN NUNUZ-A1;Lo;0;L;;;;;N;;;;;  
12680;PROTO-CUNEIFORM SIGN PA-A;Lo;0;L;;;;;N;;;;;  
12681;PROTO-CUNEIFORM SIGN PAP-A;Lo;0;L;;;;;N;;;;;  
12682;PROTO-CUNEIFORM SIGN PIRIG-B1;Lo;0;L;;;;;N;;;;;  
12683;PROTO-CUNEIFORM SIGN PU2;Lo;0;L;;;;;N;;;;;  
12684;PROTO-CUNEIFORM SIGN RAD-A;Lo;0;L;;;;;N;;;;;  
12685;PROTO-CUNEIFORM SIGN RU;Lo;0;L;;;;;N;;;;;  
12686;PROTO-CUNEIFORM SIGN SAG;Lo;0;L;;;;;N;;;;;  
12687;PROTO-CUNEIFORM SIGN SAL;Lo;0;L;;;;;N;;;;;  
12688;PROTO-CUNEIFORM SIGN SANGA-A;Lo;0;L;;;;;N;;;;;  
12689;PROTO-CUNEIFORM SIGN SAR-A;Lo;0;L;;;;;N;;;;;  
1268A;PROTO-CUNEIFORM SIGN SI;Lo;0;L;;;;;N;;;;;  
1268B;PROTO-CUNEIFORM SIGN SI4-F;Lo;0;L;;;;;N;;;;;  
1268C;PROTO-CUNEIFORM SIGN SIG;Lo;0;L;;;;;N;;;;;  
1268D;PROTO-CUNEIFORM SIGN SIG2-B;Lo;0;L;;;;;N;;;;;  
1268E;PROTO-CUNEIFORM SIGN SIG7;Lo;0;L;;;;;N;;;;;  
1268F;PROTO-CUNEIFORM SIGN SU-A;Lo;0;L;;;;;N;;;;;  
12690;PROTO-CUNEIFORM SIGN SUG5;Lo;0;L;;;;;N;;;;;  
12691;PROTO-CUNEIFORM SIGN SUHUR;Lo;0;L;;;;;N;;;;;  
12692;PROTO-CUNEIFORM SIGN SUKKAL;Lo;0;L;;;;;N;;;;;  
12693;PROTO-CUNEIFORM SIGN SUM-A;Lo;0;L;;;;;N;;;;;  
12694;PROTO-CUNEIFORM SIGN SHA;Lo;0;L;;;;;N;;;;;  
12695;PROTO-CUNEIFORM SIGN SHA3-A1;Lo;0;L;;;;;N;;;;;

12696;PROTO-CUNEIFORM SIGN SHAB-A;Lo;0;L;;;;;N;;;;;  
12697;PROTO-CUNEIFORM SIGN SHAGAN;Lo;0;L;;;;;N;;;;;  
12698;PROTO-CUNEIFORM SIGN SHAM2;Lo;0;L;;;;;N;;;;;  
12699;PROTO-CUNEIFORM SIGN SHE-A;Lo;0;L;;;;;N;;;;;  
1269A;PROTO-CUNEIFORM SIGN SHE-A NAM2;Lo;0;L;;;;;N;;;;;  
1269B;PROTO-CUNEIFORM SIGN SHE3;Lo;0;L;;;;;N;;;;;  
1269C;PROTO-CUNEIFORM SIGN SHITA-A1;Lo;0;L;;;;;N;;;;;  
1269D;PROTO-CUNEIFORM SIGN SHU;Lo;0;L;;;;;N;;;;;  
1269E;PROTO-CUNEIFORM SIGN SHU2;Lo;0;L;;;;;N;;;;;  
1269F;PROTO-CUNEIFORM SIGN SHUBUR;Lo;0;L;;;;;N;;;;;  
126A0;PROTO-CUNEIFORM SIGN TAK4-A;Lo;0;L;;;;;N;;;;;  
126A1;PROTO-CUNEIFORM SIGN TAR-A;Lo;0;L;;;;;N;;;;;  
126A2;PROTO-CUNEIFORM SIGN TE;Lo;0;L;;;;;N;;;;;  
126A3;PROTO-CUNEIFORM SIGN TI;Lo;0;L;;;;;N;;;;;  
126A4;PROTO-CUNEIFORM SIGN TUG2-A;Lo;0;L;;;;;N;;;;;  
126A5;PROTO-CUNEIFORM SIGN TUG2-A-GUNU;Lo;0;L;;;;;N;;;;;  
126A6;PROTO-CUNEIFORM SIGN TUN3-A;Lo;0;L;;;;;N;;;;;  
126A7;PROTO-CUNEIFORM SIGN TUR;Lo;0;L;;;;;N;;;;;  
126A8;PROTO-CUNEIFORM SIGN TUR3-A;Lo;0;L;;;;;N;;;;;  
126A9;PROTO-CUNEIFORM SIGN U2-A;Lo;0;L;;;;;N;;;;;  
126AA;PROTO-CUNEIFORM SIGN U2-B;Lo;0;L;;;;;N;;;;;  
126AB;PROTO-CUNEIFORM SIGN U4;Lo;0;L;;;;;N;;;;;  
126AC;PROTO-CUNEIFORM SIGN U4 TIMES ONE;Lo;0;L;;;;;N;;;;;  
126AD;PROTO-CUNEIFORM SIGN U8;Lo;0;L;;;;;N;;;;;  
126AE;PROTO-CUNEIFORM SIGN UB;Lo;0;L;;;;;N;;;;;  
126AF;PROTO-CUNEIFORM SIGN UD5-A;Lo;0;L;;;;;N;;;;;  
126B0;PROTO-CUNEIFORM SIGN UDU-A;Lo;0;L;;;;;N;;;;;  
126B1;PROTO-CUNEIFORM SIGN UDUNITA-A;Lo;0;L;;;;;N;;;;;  
126B2;PROTO-CUNEIFORM SIGN UKKIN-A;Lo;0;L;;;;;N;;;;;  
126B3;PROTO-CUNEIFORM SIGN UMUN2;Lo;0;L;;;;;N;;;;;  
126B4;PROTO-CUNEIFORM SIGN UNUG-A;Lo;0;L;;;;;N;;;;;  
126B5;PROTO-CUNEIFORM SIGN UR-A;Lo;0;L;;;;;N;;;;;  
126B6;PROTO-CUNEIFORM SIGN UR2;Lo;0;L;;;;;N;;;;;  
126B7;PROTO-CUNEIFORM SIGN UR5-A;Lo;0;L;;;;;N;;;;;  
126B8;PROTO-CUNEIFORM SIGN URI3-A;Lo;0;L;;;;;N;;;;;  
126B9;PROTO-CUNEIFORM SIGN URU-A1;Lo;0;L;;;;;N;;;;;  
126BA;PROTO-CUNEIFORM SIGN UTUA-A;Lo;0;L;;;;;N;;;;;  
126BB;PROTO-CUNEIFORM SIGN UTUL-A;Lo;0;L;;;;;N;;;;;  
126BC;PROTO-CUNEIFORM SIGN ZAG-A;Lo;0;L;;;;;N;;;;;  
126BD;PROTO-CUNEIFORM SIGN ZATU-647;Lo;0;L;;;;;N;;;;;  
126BE;PROTO-CUNEIFORM SIGN ZATU-659;Lo;0;L;;;;;N;;;;;  
126BF;PROTO-CUNEIFORM SIGN ZATU-649-C;Lo;0;L;;;;;N;;;;;  
126C0;PROTO-CUNEIFORM SIGN ZATU-737 TIMES DI;Lo;0;L;;;;;N;;;;;  
126C1;PROTO-CUNEIFORM SIGN ZATU-737 TIMES SAL;Lo;0;L;;;;;N;;;;;  
126C2;PROTO-CUNEIFORM SIGN ZATU-752;Lo;0;L;;;;;N;;;;;  
126C3;PROTO-CUNEIFORM SIGN ZATU-753;Lo;0;L;;;;;N;;;;;  
126C4;PROTO-CUNEIFORM SIGN ZI-A;Lo;0;L;;;;;N;;;;;  
12700;PROTO-CUNEIFORM NUMBER N1;Lo;0;L;;;;;N;;;;;  
12701;PROTO-CUNEIFORM NUMBER N2;Lo;0;L;;;;;N;;;;;  
12702;PROTO-CUNEIFORM NUMBER N2 RU;Lo;0;L;;;;;N;;;;;  
12703;PROTO-CUNEIFORM NUMBER N3;Lo;0;L;;;;;N;;;;;  
12704;PROTO-CUNEIFORM NUMBER N4;Lo;0;L;;;;;N;;;;;  
12705;PROTO-CUNEIFORM NUMBER N5;Lo;0;L;;;;;N;;;;;  
12706;PROTO-CUNEIFORM NUMBER N6;Lo;0;L;;;;;N;;;;;  
12707;PROTO-CUNEIFORM NUMBER N7-A;Lo;0;L;;;;;N;;;;;  
12708;PROTO-CUNEIFORM NUMBER N7-B;Lo;0;L;;;;;N;;;;;  
12709;PROTO-CUNEIFORM NUMBER N8;Lo;0;L;;;;;N;;;;;  
1270A;PROTO-CUNEIFORM NUMBER N8-B;Lo;0;L;;;;;N;;;;;  
1270B;PROTO-CUNEIFORM NUMBER N9;Lo;0;L;;;;;N;;;;;  
1270C;PROTO-CUNEIFORM NUMBER N11;Lo;0;L;;;;;N;;;;;  
1270D;PROTO-CUNEIFORM NUMBER N12;Lo;0;L;;;;;N;;;;;  
1270E;PROTO-CUNEIFORM NUMBER N14;Lo;0;L;;;;;N;;;;;  
1270F;PROTO-CUNEIFORM NUMBER N15;Lo;0;L;;;;;N;;;;;  
12710;PROTO-CUNEIFORM NUMBER N16;Lo;0;L;;;;;N;;;;;  
12711;PROTO-CUNEIFORM NUMBER N17;Lo;0;L;;;;;N;;;;;  
12712;PROTO-CUNEIFORM NUMBER N18;Lo;0;L;;;;;N;;;;;  
12713;PROTO-CUNEIFORM NUMBER N19;Lo;0;L;;;;;N;;;;;  
12714;PROTO-CUNEIFORM NUMBER N20;Lo;0;L;;;;;N;;;;;  
12715;PROTO-CUNEIFORM NUMBER N22;Lo;0;L;;;;;N;;;;;  
12716;PROTO-CUNEIFORM NUMBER N23;Lo;0;L;;;;;N;;;;;  
12717;PROTO-CUNEIFORM NUMBER N24;Lo;0;L;;;;;N;;;;;  
12718;PROTO-CUNEIFORM NUMBER N24-A;Lo;0;L;;;;;N;;;;;  
12719;PROTO-CUNEIFORM NUMBER N24-B;Lo;0;L;;;;;N;;;;;  
1271A;PROTO-CUNEIFORM NUMBER N25;Lo;0;L;;;;;N;;;;;  
1271B;PROTO-CUNEIFORM NUMBER N26;Lo;0;L;;;;;N;;;;;  
1271C;PROTO-CUNEIFORM NUMBER N26-B;Lo;0;L;;;;;N;;;;;  
1271D;PROTO-CUNEIFORM NUMBER N27;Lo;0;L;;;;;N;;;;;  
1271E;PROTO-CUNEIFORM NUMBER N28;Lo;0;L;;;;;N;;;;;  
1271F;PROTO-CUNEIFORM NUMBER N28-B;Lo;0;L;;;;;N;;;;;  
12720;PROTO-CUNEIFORM NUMBER N28-C;Lo;0;L;;;;;N;;;;;  
12721;PROTO-CUNEIFORM NUMBER N29-A;Lo;0;L;;;;;N;;;;;  
12722;PROTO-CUNEIFORM NUMBER N29-B;Lo;0;L;;;;;N;;;;;

12723;PROTO-CUNEIFORM NUMBER N29A-B;Lo;0;L;;;;;N;;;;;  
 12724;PROTO-CUNEIFORM NUMBER N29A-C;Lo;0;L;;;;;N;;;;;  
 12725;PROTO-CUNEIFORM NUMBER N30-A;Lo;0;L;;;;;N;;;;;  
 12726;PROTO-CUNEIFORM NUMBER N30-C;Lo;0;L;;;;;N;;;;;  
 12727;PROTO-CUNEIFORM NUMBER N30-D;Lo;0;L;;;;;N;;;;;  
 12728;PROTO-CUNEIFORM NUMBER N30-E;Lo;0;L;;;;;N;;;;;  
 12729;PROTO-CUNEIFORM NUMBER N30A-C;Lo;0;L;;;;;N;;;;;  
 1272A;PROTO-CUNEIFORM NUMBER N30C-B;Lo;0;L;;;;;N;;;;;  
 1272B;PROTO-CUNEIFORM NUMBER N30C-C;Lo;0;L;;;;;N;;;;;  
 1272C;PROTO-CUNEIFORM NUMBER N31;Lo;0;L;;;;;N;;;;;  
 1272D;PROTO-CUNEIFORM NUMBER N32;Lo;0;L;;;;;N;;;;;  
 1272E;PROTO-CUNEIFORM NUMBER N33;Lo;0;L;;;;;N;;;;;  
 1272F;PROTO-CUNEIFORM NUMBER N34;Lo;0;L;;;;;N;;;;;  
 12730;PROTO-CUNEIFORM NUMBER N34 TIMES N58;Lo;0;L;;;;;N;;;;;  
 12731;PROTO-CUNEIFORM NUMBER N34F TENU;Lo;0;L;;;;;N;;;;;  
 12732;PROTO-CUNEIFORM NUMBER N35;Lo;0;L;;;;;N;;;;;  
 12733;PROTO-CUNEIFORM NUMBER N36;Lo;0;L;;;;;N;;;;;  
 12734;PROTO-CUNEIFORM NUMBER N37;Lo;0;L;;;;;N;;;;;  
 12735;PROTO-CUNEIFORM NUMBER N38;Lo;0;L;;;;;N;;;;;  
 12736;PROTO-CUNEIFORM NUMBER N39-A;Lo;0;L;;;;;N;;;;;  
 12737;PROTO-CUNEIFORM NUMBER N39-B;Lo;0;L;;;;;N;;;;;  
 12738;PROTO-CUNEIFORM NUMBER N40;Lo;0;L;;;;;N;;;;;  
 12739;PROTO-CUNEIFORM NUMBER N41;Lo;0;L;;;;;N;;;;;  
 1273A;PROTO-CUNEIFORM NUMBER N42-A;Lo;0;L;;;;;N;;;;;  
 1273B;PROTO-CUNEIFORM NUMBER N42-B;Lo;0;L;;;;;N;;;;;  
 1273C;PROTO-CUNEIFORM NUMBER N43;Lo;0;L;;;;;N;;;;;  
 1273D;PROTO-CUNEIFORM NUMBER N44;Lo;0;L;;;;;N;;;;;  
 1273E;PROTO-CUNEIFORM NUMBER N45;Lo;0;L;;;;;N;;;;;  
 1273F;PROTO-CUNEIFORM NUMBER N45-A;Lo;0;L;;;;;N;;;;;  
 12740;PROTO-CUNEIFORM NUMBER N46;Lo;0;L;;;;;N;;;;;  
 12741;PROTO-CUNEIFORM NUMBER N47;Lo;0;L;;;;;N;;;;;  
 12742;PROTO-CUNEIFORM NUMBER N48;Lo;0;L;;;;;N;;;;;  
 12743;PROTO-CUNEIFORM NUMBER N49;Lo;0;L;;;;;N;;;;;  
 12744;PROTO-CUNEIFORM NUMBER N50;Lo;0;L;;;;;N;;;;;  
 12745;PROTO-CUNEIFORM NUMBER N51;Lo;0;L;;;;;N;;;;;  
 12746;PROTO-CUNEIFORM NUMBER N52;Lo;0;L;;;;;N;;;;;  
 12747;PROTO-CUNEIFORM NUMBER N54;Lo;0;L;;;;;N;;;;;  
 12748;PROTO-CUNEIFORM NUMBER N55;Lo;0;L;;;;;N;;;;;  
 12749;PROTO-CUNEIFORM NUMBER N56;Lo;0;L;;;;;N;;;;;  
 1274A;PROTO-CUNEIFORM NUMBER N57;Lo;0;L;;;;;N;;;;;  
 1274B;PROTO-CUNEIFORM NUMBER N57 N57;Lo;0;L;;;;;N;;;;;  
 1274C;PROTO-CUNEIFORM NUMBER N58;Lo;0;L;;;;;N;;;;;  
 1274D;PROTO-CUNEIFORM NUMBER N58 TENU;Lo;0;L;;;;;N;;;;;  
 1274E;PROTO-CUNEIFORM NUMBER N60;Lo;0;L;;;;;N;;;;;  
 1274F;PROTO-CUNEIFORM NUMBER N63;Lo;0;L;;;;;N;;;;;

**5. Acknowledgements.** This project was made possible in part by a grant from the U.S. National Endowment for the Humanities, which funded the Universal Scripts Project (part of the Script Encoding Initiative at UC Berkeley) in respect of the Proto-Cuneiform encoding. Any views, findings, conclusions or recommendations expressed in this publication do not necessarily reflect those of the National Endowment for the Humanities.

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	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	126A	126B	126C	126D	126E	126F
0	12600	12610	12620	12630	12640	12650	12660	12670	12680	12690	126A0	126B0	126C0			
1	12601	12611	12621	12631	12641	12651	12661	12671	12681	12691	126A1	126B1	126C1			
2	12602	12612	12622	12632	12642	12652	12662	12672	12682	12692	126A2	126B2	126C2			
3	12603	12613	12623	12633	12643	12653	12663	12673	12683	12693	126A3	126B3	126C3			
4	12604	12614	12624	12634	12644	12654	12664	12674	12684	12694	126A4	126B4	126C4			
5	12605	12615	12625	12635	12645	12655	12665	12675	12685	12695	126A5	126B5				
6	12606	12616	12626	12636	12646	12656	12666	12676	12686	12696	126A6	126B6				
7	12607	12617	12627	12637	12647	12657	12667	12677	12687	12697	126A7	126B7				
8	12608	12618	12628	12638	12648	12658	12668	12678	12688	12698	126A8	126B8				
9	12609	12619	12629	12639	12649	12659	12669	12679	12689	12699	126A9	126B9				
A	1260A	1261A	1262A	1263A	1264A	1265A	1266A	1267A	1268A	1269A	126AA	126BA				
B	1260B	1261B	1262B	1263B	1264B	1265B	1266B	1267B	1268B	1269B	126AB	126BB				
C	1260C	1261C	1262C	1263C	1264C	1265C	1266C	1267C	1268C	1269C	126AC	126BC				
D	1260D	1261D	1262D	1263D	1264D	1265D	1266D	1267D	1268D	1269D	126AD	126BD				
E	1260E	1261E	1262E	1263E	1264E	1265E	1266E	1267E	1268E	1269E	126AE	126BE				
F	1260F	1261F	1262F	1263F	1264F	1265F	1266F	1267F	1268F	1269F	126AF	126BF				

















































































Signs named "ZATU" are undeciphered signs from the "Zeichenliste der Archaischen Texte aus Uruk".

## Signs

12600		PROTO-CUNEIFORM SIGN A	12642		PROTO-CUNEIFORM SIGN HI
12601		PROTO-CUNEIFORM SIGN AB-A	12643		PROTO-CUNEIFORM SIGN HI AT G-A
12602		PROTO-CUNEIFORM SIGN AB-B	12644		PROTO-CUNEIFORM SIGN IB-A
12603		PROTO-CUNEIFORM SIGN AB2	12645		PROTO-CUNEIFORM SIGN IM-A
12604		PROTO-CUNEIFORM SIGN ABGAL	12646		PROTO-CUNEIFORM SIGN IR-A
12605		PROTO-CUNEIFORM SIGN AD-A	12647		PROTO-CUNEIFORM SIGN ISH-B
12606		PROTO-CUNEIFORM SIGN AGAR2	12648		PROTO-CUNEIFORM SIGN KA-A
12607		PROTO-CUNEIFORM SIGN AK-A	12649		PROTO-CUNEIFORM SIGN KAB
12608		PROTO-CUNEIFORM SIGN AL	1264A		PROTO-CUNEIFORM SIGN KAK-A
12609		PROTO-CUNEIFORM SIGN AMA-A	1264B		PROTO-CUNEIFORM SIGN KAR2-A
1260A		PROTO-CUNEIFORM SIGN AMAR	1264C		PROTO-CUNEIFORM SIGN KAR2-B
1260B		PROTO-CUNEIFORM SIGN AN	1264D		PROTO-CUNEIFORM SIGN KASH-A
1260C		PROTO-CUNEIFORM SIGN ANSHE-B	1264E		PROTO-CUNEIFORM SIGN KASH-B
1260D		PROTO-CUNEIFORM SIGN APIN-A	1264F		PROTO-CUNEIFORM SIGN KASH-C
1260E		PROTO-CUNEIFORM SIGN BA	12650		PROTO-CUNEIFORM SIGN KI
1260F		PROTO-CUNEIFORM SIGN BAD-A	12651		PROTO-CUNEIFORM SIGN KID-A
12610		PROTO-CUNEIFORM SIGN BALA-A	12652		PROTO-CUNEIFORM SIGN KID-B
12611		PROTO-CUNEIFORM SIGN BAR	12653		PROTO-CUNEIFORM SIGN KISAL-B1
12612		PROTO-CUNEIFORM SIGN BU-A	12654		PROTO-CUNEIFORM SIGN KISIM-A
12613		PROTO-CUNEIFORM SIGN DA-A	12655		PROTO-CUNEIFORM SIGN KISH
12614		PROTO-CUNEIFORM SIGN DARA4-A1	12656		PROTO-CUNEIFORM SIGN KISHIK-A
12615		PROTO-CUNEIFORM SIGN DI	12657		PROTO-CUNEIFORM SIGN KU-B1
12616		PROTO-CUNEIFORM SIGN DIM-C	12658		PROTO-CUNEIFORM SIGN KU3-A
12617		PROTO-CUNEIFORM SIGN DIN	12659		PROTO-CUNEIFORM SIGN KU6-A
12618		PROTO-CUNEIFORM SIGN DU	1265A		PROTO-CUNEIFORM SIGN KUR-A
12619		PROTO-CUNEIFORM SIGN DU6-B	1265B		PROTO-CUNEIFORM SIGN LA-2
1261A		PROTO-CUNEIFORM SIGN DUB-A	1265C		PROTO-CUNEIFORM SIGN LAGAB-A
1261B		PROTO-CUNEIFORM SIGN DUG-A	1265D		PROTO-CUNEIFORM SIGN LAGAR-A
1261C		PROTO-CUNEIFORM SIGN DUG-B	1265E		PROTO-CUNEIFORM SIGN MA
1261D		PROTO-CUNEIFORM SIGN DUG-B TIMES SIG7	1265F		PROTO-CUNEIFORM SIGN MAR-A
1261E		PROTO-CUNEIFORM SIGN DUG-C	12660		PROTO-CUNEIFORM SIGN MASH
1261F		PROTO-CUNEIFORM SIGN DUR2	12661		PROTO-CUNEIFORM SIGN MASH2
12620		PROTO-CUNEIFORM SIGN E2-A	12662		PROTO-CUNEIFORM SIGN ME-A
12621		PROTO-CUNEIFORM SIGN E2-B	12663		PROTO-CUNEIFORM SIGN MES
12622		PROTO-CUNEIFORM SIGN EN-A	12664		PROTO-CUNEIFORM SIGN MU
12623		PROTO-CUNEIFORM SIGN ERIM-A	12665		PROTO-CUNEIFORM SIGN MUD
12624		PROTO-CUNEIFORM SIGN ERIN	12666		PROTO-CUNEIFORM SIGN MUD3-A
12625		PROTO-CUNEIFORM SIGN EZEN-B	12667		PROTO-CUNEIFORM SIGN MUNU3
12626		PROTO-CUNEIFORM SIGN GAAR-A1	12668		PROTO-CUNEIFORM SIGN MUSH-A
12627		PROTO-CUNEIFORM SIGN GA-A	12669		PROTO-CUNEIFORM SIGN MUSHEN
12628		PROTO-CUNEIFORM SIGN GA-B	1266A		PROTO-CUNEIFORM SIGN NA-A
12629		PROTO-CUNEIFORM SIGN GA2-A1	1266B		PROTO-CUNEIFORM SIGN NA2-A
1262A		PROTO-CUNEIFORM SIGN GADA-A	1266C		PROTO-CUNEIFORM SIGN NAGA-A
1262B		PROTO-CUNEIFORM SIGN GAL-A	1266D		PROTO-CUNEIFORM SIGN NAGAR-A
1262C		PROTO-CUNEIFORM SIGN GAN-A	1266E		PROTO-CUNEIFORM SIGN NAGAR-B
1262D		PROTO-CUNEIFORM SIGN GAN-B	1266F		PROTO-CUNEIFORM SIGN NAM2
1262E		PROTO-CUNEIFORM SIGN GAN2	12670		PROTO-CUNEIFORM SIGN NAMESHDA
1262F		PROTO-CUNEIFORM SIGN GAR	12671		PROTO-CUNEIFORM SIGN NAR
12630		PROTO-CUNEIFORM SIGN GARA2-A	12672		PROTO-CUNEIFORM SIGN NE-A
12631		PROTO-CUNEIFORM SIGN GAZI	12673		PROTO-CUNEIFORM SIGN NESAG2-A
12632		PROTO-CUNEIFORM SIGN GI	12674		PROTO-CUNEIFORM SIGN NI-A
12633		PROTO-CUNEIFORM SIGN GI OVER GI	12675		PROTO-CUNEIFORM SIGN NI-A RU
12634		PROTO-CUNEIFORM SIGN GI6	12676		PROTO-CUNEIFORM SIGN NI-B
12635		PROTO-CUNEIFORM SIGN GIBIL	12677		PROTO-CUNEIFORM SIGN NIM-A
12636		PROTO-CUNEIFORM SIGN GIR2-A	12678		PROTO-CUNEIFORM SIGN NIM-B1
12637		PROTO-CUNEIFORM SIGN GIR3-GUNU-B	12679		PROTO-CUNEIFORM SIGN NIMGIR
12638		PROTO-CUNEIFORM SIGN GIR3-C	1267A		PROTO-CUNEIFORM SIGN NIN
12639		PROTO-CUNEIFORM SIGN GISH	1267B		PROTO-CUNEIFORM SIGN NU
1263A		PROTO-CUNEIFORM SIGN GISH3	1267C		PROTO-CUNEIFORM SIGN NUN-A
1263B		PROTO-CUNEIFORM SIGN GISHIMMAR-B1	1267D		PROTO-CUNEIFORM SIGN NUN-B
1263C		PROTO-CUNEIFORM SIGN GU	1267E		PROTO-CUNEIFORM SIGN NUNUZ-A1
1263D		PROTO-CUNEIFORM SIGN GU4	1267F		PROTO-CUNEIFORM SIGN PA-A
1263E		PROTO-CUNEIFORM SIGN GU7	12680		PROTO-CUNEIFORM SIGN PAP-A
1263F		PROTO-CUNEIFORM SIGN GUG2	12681		PROTO-CUNEIFORM SIGN PIRIG-B1
12640		PROTO-CUNEIFORM SIGN HAL	12682		PROTO-CUNEIFORM SIGN PU2
12641		PROTO-CUNEIFORM SIGN HASHHUR	12683		PROTO-CUNEIFORM SIGN RAD-A
			12684		PROTO-CUNEIFORM SIGN RU
			12685		PROTO-CUNEIFORM SIGN SAG
			12686		PROTO-CUNEIFORM SIGN SAL
			12687		PROTO-CUNEIFORM SIGN SANGA-A
			12688		PROTO-CUNEIFORM SIGN SANGA-A



12689		PROTO-CUNEIFORM SIGN SAR-A
1268A		PROTO-CUNEIFORM SIGN SI
1268B		PROTO-CUNEIFORM SIGN SI4-F
1268C		PROTO-CUNEIFORM SIGN SIG
1268D		PROTO-CUNEIFORM SIGN SIG2-B
1268E		PROTO-CUNEIFORM SIGN SIG7
1268F		PROTO-CUNEIFORM SIGN SU-A
12690		PROTO-CUNEIFORM SIGN SUG5
12691		PROTO-CUNEIFORM SIGN SUHUR
12692		PROTO-CUNEIFORM SIGN SUKKAL
12693		PROTO-CUNEIFORM SIGN SUM-A
12694		PROTO-CUNEIFORM SIGN SHA
12695		PROTO-CUNEIFORM SIGN SHA3-A1
12696		PROTO-CUNEIFORM SIGN SHAB-A
12697		PROTO-CUNEIFORM SIGN SHAGAN
12698		PROTO-CUNEIFORM SIGN SHAM2
12699		PROTO-CUNEIFORM SIGN SHE-A
1269A		PROTO-CUNEIFORM SIGN SHE-A NAM2
1269B		PROTO-CUNEIFORM SIGN SHE3
1269C		PROTO-CUNEIFORM SIGN SHITA-A1
1269D		PROTO-CUNEIFORM SIGN SHU
1269E		PROTO-CUNEIFORM SIGN SHU2
1269F		PROTO-CUNEIFORM SIGN SHUBUR
126A0		PROTO-CUNEIFORM SIGN TAK4-A
126A1		PROTO-CUNEIFORM SIGN TAR-A
126A2		PROTO-CUNEIFORM SIGN TE
126A3		PROTO-CUNEIFORM SIGN TI
126A4		PROTO-CUNEIFORM SIGN TUG2-A
126A5		PROTO-CUNEIFORM SIGN TUG2-A-GUNU
126A6		PROTO-CUNEIFORM SIGN TUN3-A
126A7		PROTO-CUNEIFORM SIGN TUR
126A8		PROTO-CUNEIFORM SIGN TUR3-A
126A9		PROTO-CUNEIFORM SIGN U2-A
126AA		PROTO-CUNEIFORM SIGN U2-B
126AB		PROTO-CUNEIFORM SIGN U4
126AC		PROTO-CUNEIFORM SIGN U4 TIMES ONE
126AD		PROTO-CUNEIFORM SIGN U8
126AE		PROTO-CUNEIFORM SIGN UB
126AF		PROTO-CUNEIFORM SIGN UD5-A
126B0		PROTO-CUNEIFORM SIGN UDU-A
126B1		PROTO-CUNEIFORM SIGN UDUNITA-A
126B2		PROTO-CUNEIFORM SIGN UKKIN-A
126B3		PROTO-CUNEIFORM SIGN UMUN2
126B4		PROTO-CUNEIFORM SIGN UNUG-A
126B5		PROTO-CUNEIFORM SIGN UR-A
126B6		PROTO-CUNEIFORM SIGN UR2
126B7		PROTO-CUNEIFORM SIGN UR5-A
126B8		PROTO-CUNEIFORM SIGN URI3-A
126B9		PROTO-CUNEIFORM SIGN URU-A1
126BA		PROTO-CUNEIFORM SIGN UTUA-A
126BB		PROTO-CUNEIFORM SIGN UTUL-A
126BC		PROTO-CUNEIFORM SIGN ZAG-A
126BD		PROTO-CUNEIFORM SIGN ZATU-647
126BE		PROTO-CUNEIFORM SIGN ZATU-659
126BF		PROTO-CUNEIFORM SIGN ZATU-649-C
126C0		PROTO-CUNEIFORM SIGN ZATU-737 TIMES DI
126C1		PROTO-CUNEIFORM SIGN ZATU-737 TIMES SAL
126C2		PROTO-CUNEIFORM SIGN ZATU-752
126C3		PROTO-CUNEIFORM SIGN ZATU-753
126C4		PROTO-CUNEIFORM SIGN ZI-A

	1270	1271	1272	1273	1274
0	 12700	 12710	 12720	 12730	 12740
1	 12701	 12711	 12721	 12731	 12741
2	 12702	 12712	 12722	 12732	 12742
3	 12703	 12713	 12723	 12733	 12743
4	 12704	 12714	 12724	 12734	 12744
5	 12705	 12715	 12725	 12735	 12745
6	 12706	 12716	 12726	 12736	 12746
7	 12707	 12717	 12727	 12737	 12747
8	 12708	 12718	 12728	 12738	 12748
9	 12709	 12719	 12729	 12739	 12749
A	 1270A	 1271A	 1272A	 1273A	 1274A
B	 1270B	 1271B	 1272B	 1273B	 1274B
C	 1270C	 1271C	 1272C	 1273C	 1274C
D	 1270D	 1271D	 1272D	 1273D	 1274D
E	 1270E	 1271E	 1272E	 1273E	 1274E
F	 1270F	 1271F	 1272F	 1273F	 1274F

## Numbers

12700	▷	PROTO-CUNEIFORM NUMBER N1	12745	⌘	PROTO-CUNEIFORM NUMBER N51
12701	◁	PROTO-CUNEIFORM NUMBER N2	12746	⌘	PROTO-CUNEIFORM NUMBER N52
12702	◁◁	PROTO-CUNEIFORM NUMBER N2 RU	12747	⌘	PROTO-CUNEIFORM NUMBER N54
12703	▷	PROTO-CUNEIFORM NUMBER N3	12748	◁	PROTO-CUNEIFORM NUMBER N55
12704	▷	PROTO-CUNEIFORM NUMBER N4	12749	●	PROTO-CUNEIFORM NUMBER N56
12705	▷	PROTO-CUNEIFORM NUMBER N5	1274A	—	PROTO-CUNEIFORM NUMBER N57
12706	▷	PROTO-CUNEIFORM NUMBER N6	1274B	—	PROTO-CUNEIFORM NUMBER N57 N57
12707	▷	PROTO-CUNEIFORM NUMBER N7-A	1274C		PROTO-CUNEIFORM NUMBER N58
12708	▷	PROTO-CUNEIFORM NUMBER N7-B	1274D	\	PROTO-CUNEIFORM NUMBER N58 TENU
12709	▷	PROTO-CUNEIFORM NUMBER N8	1274E	⌘	PROTO-CUNEIFORM NUMBER N60
1270A	▷	PROTO-CUNEIFORM NUMBER N8-B	1274F	●	PROTO-CUNEIFORM NUMBER N63
1270B	▷	PROTO-CUNEIFORM NUMBER N9			
1270C	▷	PROTO-CUNEIFORM NUMBER N11			
1270D	▷	PROTO-CUNEIFORM NUMBER N12			
1270E	●	PROTO-CUNEIFORM NUMBER N14			
1270F	●	PROTO-CUNEIFORM NUMBER N15			
12710	●	PROTO-CUNEIFORM NUMBER N16			
12711	●	PROTO-CUNEIFORM NUMBER N17			
12712	●	PROTO-CUNEIFORM NUMBER N18			
12713	●	PROTO-CUNEIFORM NUMBER N19			
12714	●	PROTO-CUNEIFORM NUMBER N20			
12715	●	PROTO-CUNEIFORM NUMBER N22			
12716	⌘	PROTO-CUNEIFORM NUMBER N23			
12717	⌘	PROTO-CUNEIFORM NUMBER N24			
12718	⌘	PROTO-CUNEIFORM NUMBER N24-A			
12719	⌘	PROTO-CUNEIFORM NUMBER N24-B			
1271A	⌘	PROTO-CUNEIFORM NUMBER N25			
1271B	⌘	PROTO-CUNEIFORM NUMBER N26			
1271C	⌘	PROTO-CUNEIFORM NUMBER N26-B			
1271D	⌘	PROTO-CUNEIFORM NUMBER N27			
1271E	⌘	PROTO-CUNEIFORM NUMBER N28			
1271F	⌘	PROTO-CUNEIFORM NUMBER N28-B			
12720	⌘	PROTO-CUNEIFORM NUMBER N28-C			
12721	⌘	PROTO-CUNEIFORM NUMBER N29-A			
12722	⌘	PROTO-CUNEIFORM NUMBER N29-B			
12723	⌘	PROTO-CUNEIFORM NUMBER N29A-B			
12724	⌘	PROTO-CUNEIFORM NUMBER N29A-C			
12725	⌘	PROTO-CUNEIFORM NUMBER N30-A			
12726	⌘	PROTO-CUNEIFORM NUMBER N30-C			
12727	⌘	PROTO-CUNEIFORM NUMBER N30-D			
12728	⌘	PROTO-CUNEIFORM NUMBER N30-E			
12729	⌘	PROTO-CUNEIFORM NUMBER N30A-C			
1272A	⌘	PROTO-CUNEIFORM NUMBER N30C-B			
1272B	⌘	PROTO-CUNEIFORM NUMBER N30C-C			
1272C	⌘	PROTO-CUNEIFORM NUMBER N31			
1272D	⌘	PROTO-CUNEIFORM NUMBER N32			
1272E	⌘	PROTO-CUNEIFORM NUMBER N33			
1272F	▷	PROTO-CUNEIFORM NUMBER N34			
12730	▷	PROTO-CUNEIFORM NUMBER N34 TIMES N58			
12731	□	PROTO-CUNEIFORM NUMBER N34F TENU			
12732	▷	PROTO-CUNEIFORM NUMBER N35			
12733	▷	PROTO-CUNEIFORM NUMBER N36			
12734	▷	PROTO-CUNEIFORM NUMBER N37			
12735	▷	PROTO-CUNEIFORM NUMBER N38			
12736	▷	PROTO-CUNEIFORM NUMBER N39-A			
12737	▷	PROTO-CUNEIFORM NUMBER N39-B			
12738	▷	PROTO-CUNEIFORM NUMBER N40			
12739	▷	PROTO-CUNEIFORM NUMBER N41			
1273A	▷	PROTO-CUNEIFORM NUMBER N42-A			
1273B	▷	PROTO-CUNEIFORM NUMBER N42-B			
1273C	▷	PROTO-CUNEIFORM NUMBER N43			
1273D	▷	PROTO-CUNEIFORM NUMBER N44			
1273E	●	PROTO-CUNEIFORM NUMBER N45			
1273F	●	PROTO-CUNEIFORM NUMBER N45-A			
12740	●	PROTO-CUNEIFORM NUMBER N46			
12741	●	PROTO-CUNEIFORM NUMBER N47			
12742	▷	PROTO-CUNEIFORM NUMBER N48			
12743	▷	PROTO-CUNEIFORM NUMBER N49			
12744	●	PROTO-CUNEIFORM NUMBER N50			

## A. Administrative

1. Title

**Proposal to encode Proto-Cuneiform in the SMP of the UCS**

2. Requester's name

**UC Berkeley Script Encoding Initiative (Universal Scripts Project)**

3. Requester type (Member body/Liaison/Individual contribution)

**Liaison contribution.**

4. Submission date

**2017-05-08**

5. Requester's reference (if applicable)

6. Choose one of the following:

6a. This is a complete proposal

**No.**

6b. More information will be provided later

**Yes.**

## B. Technical – General

1. Choose one of the following:

1a. This proposal is for a new script (set of characters)

**Yes.**

1b. Proposed name of script

**Proto-Cuneiform and Proto-Cuneiform Numbers.**

1c. The proposal is for addition of character(s) to an existing block

**No**

1d. Name of the existing block

2. Number of characters in proposal

**265 (201, 64).**

3. Proposed category (A-Contemporary; B.1-Specialized (small collection); B.2-Specialized (large collection); C-Major extinct; D-Attested extinct; E-Minor extinct; F-Archaic Hieroglyphic or Ideographic; G-Obscure or questionable usage symbols)

**Category F.**

4a. Is a repertoire including character names provided?

**Yes.**

4b. If YES, are the names in accordance with the “character naming guidelines” in Annex L of P&P document?

**Yes.**

4c. Are the character shapes attached in a legible form suitable for review?

**Yes.**

5a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard?

**Michael Everson.**

5b. If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used:

**Michael Everson, Fontographer.**

6a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

**Yes.**

6b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?

**No.**

7. Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?

**Yes.**

8. Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at <http://www.unicode.org> for such information on other scripts. Also see Unicode Character Database <http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html> and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

**See above.**

## C. Technical – Justification

1. Has this proposal for addition of character(s) been submitted before? If YES, explain.

**No.**

2a. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?

**Yes.**

2b. If YES, with whom?

**Steve Tinney.**

2c. If YES, available relevant documents

3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included?

**Sumerologists.**

4a. The context of use for the proposed characters (type of use; common or rare)

**Used historically and in modern editions.**

4b. Reference

5a. Are the proposed characters in current use by the user community?

**Yes.**

5b. If YES, where?

**Scholarly publications.**

6a. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?

**No.**

6b. If YES, is a rationale provided?

6c. If YES, reference

7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?

**No.**

8a. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?

**No.**

8b. If YES, is a rationale for its inclusion provided?

8c. If YES, reference

9a. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?

**No.**

9b. If YES, is a rationale for its inclusion provided?

9c. If YES, reference

10a. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?

**No.**

10b. If YES, is a rationale for its inclusion provided?

10c. If YES, reference

11a. Does the proposal include use of combining characters and/or use of composite sequences (see clauses 4.12 and 4.14 in ISO/IEC 10646-1: 2000)?

**No.**

11b. If YES, is a rationale for such use provided?

11c. If YES, reference

11d. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?

**No.**

11e. If YES, reference

12a. Does the proposal contain characters with any special properties such as control function or similar semantics?

**No.**

12b. If YES, describe in detail (include attachment if necessary)

13a. Does the proposal contain any Ideographic compatibility character(s)?

**No.**

13b. If YES, is the equivalent corresponding unified ideographic character(s) identified?