


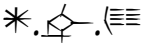


















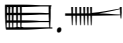




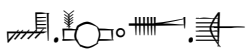


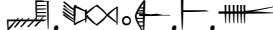








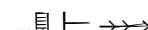














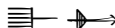
















































Materials for Encoding Proto-Cuneiform






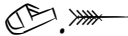

























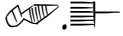


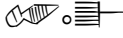


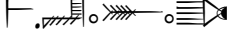


Appendix A

SEQUENCES DATA

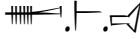



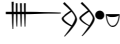

































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
































NAME/DECOMP	PUA	LIG/.liga
IR~a.GA ₂ ~a1 ~1 	 F2280	 u12864_u200D_u12815.liga
KA~a.ŠE~a ~1 	 F2108	 u1286B_u200D_u12B52.liga
KA~a.ŠE~a ~2 	 F2109	 u1286B_u200D_u12B52.liga.cv99
KAK~a.GA ₂ ~a1 ~1 	 F2281	 u12873_u200D_u12815.liga
KU ₆ ~a.Giš ~1 	 F2283	 u128AA_u200D_u128A7.liga
KU ₆ ~a.1(N02) ~1 	 F2282	 u128AA_u200D_u125BE.liga
KUR~a.E ₂ ~a ~1 	 F2279	 u128AD_u200D_u127CA.liga
KUR~a.NUNUZ~a1 ~1 	 F2278	 u128AD_u200D_u12A82.liga
KUR~a.RU ~1 	 F21A6	 u128AD_u200D_u12AA5.liga
KUR~a.RU ~2 	 F21A7	 u128AD_u200D_u12AA5.liga.cv99
KUR~b.E ₂ ~a ~1 	 F227A	 u128AE_u200D_u127CA.liga
LAGAB~b.TE 	0	 u128CD_u200D_u12BB9.liga
LU ₂ .GAL~a ~1 	 F212A	 u128E2_u200D_u1284E.liga
LU ₂ .GAL~a ~2 	 F212B	 u128E2_u200D_u1284E.liga.cv99
ME~a.EN~a.ŠE~a.ŠA ~1 	 F226F	 u12905_u200D_u12787_u200D_u12A1F_u200D_u12B37.liga



































NAME/DECOMP	PUA	LIG/.liga
MUŠ ₃ ~a.AB~a ~1 	 F2224	 u1291E_u200D_u12698.liga
MUŠ ₃ ~a.ERIN ~1 	 F2223	 u1291E_u200D_u127EF.liga
MUŠ ₃ ~a.UNUG~a ~1 	 F2222	 u1291E_u200D_u12C44.liga
MUŠEN.UR ₃ ~b2 ~1 	 F2225	 u12921_u200D_u12C58.liga
MUŠEN.3(N58) ~2 	 F221C	 u12921_u200D_uF011C.liga.cv99
1(N02).RU ~2 	 F2211	 u125BE_u200D_u12AA5.liga.cv99
NAGAR~a.BU~a ~1 	 F2226	 u12930_u200D_u1270B.liga
NAGAR~b.BU~a ~1 	 F2227	 u12931_u200D_u1270B.liga
NE~a.RU ~1 	 F2228	 u1293D_u200D_u12AA5.liga
NE~c.GI ~1 	 F20E3	 u1293F_u200D_u12878.liga
NE~c.GI ~2 	 F20E4	 u1293F_u200D_u12878.liga.cv99
NI~a.RU ~1 	 F2229	 u12943_u200D_u12AA5.liga
NUN~a.ME~a ~1 	 F2082	 u1296F_u200D_u129E2.liga
NUN~a.ME~a ~2 	 F2083	 u1296F_u200D_u129E2.liga.cv99
NUN~a.ME~a.DU ~1 	 F2084	 u1296F_u200D_u12905_u200D_u1274D.liga































NAME/DECOMP	PUA	LIG/.liga
NUN~a.ME~a.DU ~2 	 F2085	 u1296F_u200D_u12905_u200D_u1274D.liga.cv99
NUN~b.U ₄ .U ₄ .1(N14).1(N08) 	0	 u12975_u200D_u12A7D_u200D_u12A7D_u200D_u12562_u200D_u12559.liga
PA~a.IB~a ~1 	 F2181	 u1297E_u200D_u128F4.liga
PA~a.IB~a ~2 	 F2182	 u1297E_u200D_u128F4.liga.cv99
PA~a.IB~a ~3 	 F2183	 u1297E_u200D_u128F4.liga.cv98
PA~a.TE.SI ~1 	 F222A	 u1297E_u200D_u12A60_u200D_u12AC7.liga
PA~a.UDU~a ~1 	 F2171	 u1297E_u200D_u12C25.liga
PA~a.UDU~a ~2 	 F2172	 u1297E_u200D_u12C25.liga.cv99
PAP~a.IB~a ~1 	 F2184	 u12982_u200D_u128F4.liga
PAP~a.IB~a ~2 	 F2185	 u12982_u200D_u128F4.liga.cv99
SAL.KUR~a ~1 	 F2234	 u1299E_u200D_u1296C.liga
SAL.LAGAR~a ~1 	 F2232	 u1299E_u200D_u129A0.liga
SAL.LAM~b ~1 	 F2233	 u1299E_u200D_u129B1.liga
SAL.ME~a 	0	 u1299E_u200D_u129E2.liga
SAL.NAM ₂ ~1 	 F222B	 u1299E_u200D_u12A23.liga

NAME/DECOMP	PUA	LIG/.liga
SAL.NAM ₇ .ŠE~a@t.EZEN~b.NUN~a.SIG ₇ ~ 	F222C	u1299E_u200D_u12936_u200D_u12A22_u200D_u127A1_u200D_u1296F_u200D_u12AE3.liga
SAL.SI ~1 	F222D	u1299E_u200D_u12AC7.liga
SAL.SILA ₄ ~c ~1 	F222E	u1299E_u200D_u12B15.liga
SAL.ŠU ₂ ~1 	F222F	u1299E_u200D_u12B98.liga
SAL.ZATU751~a ~1 	F2230	u1299E_u200D_u12D75.liga
SAL.ZATU751~b ~1 	F2231	u1299E_u200D_u12D76.liga
SAL.ZATU751~c ~1 	F2235	u1299E_u200D_uF300F.liga
SU~a.KUR~a.RU ~1 	F2236	u129F4_u200D_u128AD_u200D_u12AA5.liga
ŠE~a.NAM ₂ ~1 	F218B	u12A1F_u200D_u12A23.liga
ŠE~a.NAM ₂ ~2 	F218C	u12A1F_u200D_u12A23.liga.cv99
ŠE~a.ŠA ~1 	F2126	u12A0C_u200D_u12B52.liga
ŠE~a.ŠA ~2 	F2127	u12A0C_u200D_u12B52.liga.cv99
ŠE~a@t.KIN ₂ ~c ~1 	F2189	u12A1F_u200D_u12948.liga
ŠE~a@t.KIN ₂ ~c ~2 	F218A	u12A1F_u200D_u12948.liga.cv99
ŠEŠ~a.NA~a ~1 	F2237	u12A31_u200D_u12A0B.liga

NAME/DECOMP	PUA	LIG/.liga
ŠITA~a1.MUD ₃ ~a ~1 	F2238	u12A38_u200D_u129EF.liga
ŠU ₂ .E ₂ ~a ~1 	F223C	u12A49_u200D_u127CA.liga
ŠU ₂ .E ₂ ~b ~1 	F223D	u12A49_u200D_u127CE.liga
ŠU ₂ .EN~a ~1 	F219F	u12A49_u200D_u127D9.liga
ŠU ₂ .EN~a ~2 	F21A0	u12A49_u200D_u127D9.liga.cv99
ŠU ₂ .EN~a ~3 	F21A1	u12A49_u200D_u127D9.liga.cv98
ŠU ₂ .EN~b ~1 	F223E	u12A49_u200D_u127DA.liga
ŠU ₂ .GIŠ ~1 	F223F	u12A49_u200D_u128A7.liga
ŠU ₂ .(HI×1(N57).HI×1(N57)) ~1 	F2240	u12A49_u200D_u12852_u128EC.liga
ŠU ₂ .PAP~a ~2 	F221D	u12A49_u200D_u12A91.liga.cv99
ŠU ₂ .PAP~a.AN ~2 	F219E	u12A49_u200D_u12982_u200D_u126CC.liga.cv99
ŠU ₂ .URI ₃ ~a ~1 	F2239	u12A49_u200D_u12C5F.liga
ŠU ₂ .1(N02) ~1 	F223B	u12A49_u200D_u125BE.liga
ŠU ₂ .1(N24) ~1 	F223A	u12A49_u200D_u125AA.liga

NAME/DECOMP	PUA	LIG/.liga
ŠU ₂ .2(N57) ~1 	 F2241	 u12A49_u200D_uF0111.liga
ŠUBUR.1(N57) ~1 	 F2212	 u12A4B_u200D_uF0110.liga
TE.A ~1 	 F2242	 u12A60_u200D_u12690.liga
TUG ₂ ~a.BAD&BAD ~1 	 F2243	 u12A69_u200D_u126E0.liga
TUR ₃ ~a.5(N57).5(N57) ~2 	 F221E	 u12A77_u200D_u12BED_u200D_uF0114.liga.cv99
U ₄ .AB~b ~1 	 F2246	 u12A7D_u200D_u126A3.liga
U ₄ .ŠU ₂ ~1 	 F2244	 u12A7D_u200D_u12B98.liga
U ₄ .1(N08) ~1 	 F224D	 u12A7D_u200D_u12559.liga
U ₄ .2(N08) ~1 	 F2247	 u12A7D_u200D_u1255A.liga
U ₄ .3(N08) ~1 	 F2248	 u12A7D_u200D_u1255B.liga
U ₄ .4(N08) ~1 	 F2249	 u12A7D_u200D_u1255C.liga
U ₄ .5(N08) ~1 	 F224A	 u12A7D_u200D_u1255D.liga
U ₄ .6(N08) ~1 	 F224B	 u12A7D_u200D_u1255E.liga
U ₄ .7(N08) ~1 	 F224C	 u12A7D_u200D_u1255F.liga

NAME/DECOMP	PUA	LIG/.liga
U ₄ .8(N08) ~1 	 F224E	 u12A7D_u200D_u12560.liga
U ₄ .1(N14) ~1 	 F224F	 u12A7D_u200D_u12562.liga
U ₄ .1(N14).1(N08) 	0	 u12A7D_u200D_u12562_u200D_u12559.liga
U ₄ .1(N14).3(N08) ~1 	 F2250	 u12A7D_u200D_u12562_u200D_u1255B.liga
U ₄ .1(N14).4(N08) ~1 	 F2251	 u12A7D_u200D_u12562_u200D_u1255C.liga
U ₄ .1(N14).5(N08) ~1 	 F2252	 u12A7D_u200D_u12562_u200D_u1255D.liga
U ₄ .1(N14).8(N08) ~1 	 F2253	 u12A7D_u200D_u12562_u200D_u12560.liga
U ₄ .2(N14) ~1 	 F2254	 u12A7D_u200D_u12563.liga
U ₄ .1(N24) ~1 	 F2245	 u12A7D_u200D_u125AA.liga
U ₄ ×1(N01).5(N08) ~1 	 F2255	 u12A7E_u200D_u1255D.liga
U ₄ ×2(N01).2(N14) ~1 	 F2256	 uF2485_u200D_u12563.liga
U ₄ ×2(N01).2(N14).1(N08) ~1 	 F2257	 uF2485_u200D_u12563_u200D_u12559.liga
U ₄ ×3(N01).3(N08) ~1 	 F2258	 u12A80_u200D_u1255B.liga
U ₄ ×4(N01).2(N14) ~1 	 F2259	 u12A81_u200D_u12563.liga

NAME/DECOMP	PUA	LIG/.liga
U ₄ ×5(N01).1(N14) ~1 	F225A	 u12A82_u200D_u12562.liga
U ₄ ×(1(N14).3(N01)).1(N14).4(N08).1(N14).4(N08) ~2 	F221F	 uF254D_u200D_u12562_u200D_u1255C_u200D_u12562_u200D_u1255C.liga.cv99
URl ₃ ~a.AB~a ~1 	F225D	 u12AD2_u200D_u12698.liga
URl ₃ ~a.IB~a ~1 	F225C	 u12AD2_u200D_u128F4.liga
URl ₃ ~a.NA~a ~1 	F2143	 u12AD2_u200D_u12A0B.liga
URl ₃ ~a.NA~a ~2 	F2144	 u12AD2_u200D_u12A0B.liga.cv99
URl ₃ ~a.NA~a ~3 	F2145	 u12AD2_u200D_u12A0B.liga.cv98
URl ₃ ~a.UNUG~a ~1 	F225B	 u12AD2_u200D_u12C44.liga
UŠ~b.KUR~a ~1 	F20FE	 u12AE7_u200D_u1296C.liga
UŠ~b.KUR~a ~2 	F20FF	 u12AE7_u200D_u1296C.liga.cv99
ZATU714.RU ~1 	F225E	 u12B74_u200D_u12AA5.liga
ZATU753.GA~a ~1 	F20D0	 u127A9_u200D_u12D79.liga
ZATU753.GA~a ~2 	F20D1	 u127A9_u200D_u12D79.liga.cv99
1(N57).AB ₂ ~1 	F2288	 u12BE9_u200D_u126A7.liga
2(N57).AB ₂ ~1 	F228F	 u12BEA_u200D_u126A7.liga

NAME/DECOMP	PUA	LIG/.liga
3(N57).AMAR ~1 ≡.⤵	⇒ F2299	⇒ u12BEB_u200D_u126C5.liga
4(N57).AMAR ~1 ≡.⤵	⇒ F229F	⇒ u12BEC_u200D_u126C5.liga
3(N57).AZ ≡.⤵	0	⇒ u12BEB_u200D_u126DC.liga
3(N57).BAR×UŠ~a ~1 ≡.⤵	⇒ F229E	⇒ u12BEB_u200D_uF3095.liga
3(N57).BARA ₃ ~1 ≡.⤵	⇒ F229C	⇒ u12BEB_u200D_u12702.liga
2(N57).BIR ₃ ~a ~1 =. ⤵	⇒ F2290	⇒ u12BEA_u200D_u12706.liga
1(N57).BU ₃ -. ⤵	0	- u12BE9_u200D_u12718.liga
2(N57).DU ₆ ~a@n =. □	0	= □ u12BEA_u200D_uF3089.liga
1(N57).E ₂ ~a ~1 -. ⤵	- F2289	- u12BE9_u200D_u127CA.liga
3(N57).E ₂ ~b ~1 ≡.⤵	⇒ F229A	⇒ u12BEB_u200D_u127CE.liga
3(N57).EN ₂ ≡.⤵	0	⇒ u12BEB_u200D_u127E3.liga
3(N57).GAR ~1 ≡.⤵	⇒ F229D	⇒ u12BEB_u200D_u12868.liga
4(N57).GAR ~1 ≡.⤵	⇒ F22A0	⇒ u12BEC_u200D_u12868.liga
5(N57).GAR ~1 ≡.⤵	⇒ F22A2	⇒ u12BED_u200D_u12868.liga

NAME/DECOMP	PUA	LIG/.liga
6(N57).GAR ~1 ≡.𐌆	𐌆 F22A4	𐌆 u12BEE_u200D_u12868.liga
7(N57).GAR ~2 ≡≡.𐌆	𐌆 F2221	𐌆 u12BEF_u200D_u12868.liga.cv99
4(N57).KU ₃ ~a ~1 ≡.𐌇	𐌇 F22A1	𐌇 u12BEC_u200D_u12963.liga
5(N57).KU ₃ ~a ~1 ≡.𐌇	𐌇 F22A3	𐌇 u12BED_u200D_u12963.liga
6(N57).KU ₃ ~a ~1 ≡.𐌇	𐌇 F22A5	𐌇 u12BEE_u200D_u12963.liga
2(N57).KU ₆ ~a ~1 =.𐌆	𐌆 F2291	𐌆 u12BEA_u200D_u12965.liga
3(N57).LAM~a.KUR~a.RU ~1 ≡.𐌈.𐌈.𐌈	𐌈 F229B	𐌈 u12BEB_u200D_u128DD_u200D_u128AD_u200D_u12AA5.liga
1(N57).MUŠEN ~1 -.𐌉	𐌉 F2284	𐌉 u12BE9_u200D_u12A05.liga
2(N57).MUŠEN ~1 =.𐌉	𐌉 F228A	𐌉 u12BEA_u200D_u12A05.liga
3(N57).MUŠEN ~1 ≡.𐌉	𐌉 F2292	𐌉 u12BEB_u200D_u12A05.liga
3(N57).NUNUZ~a1 ~1 ≡.𐌊	𐌊 F2293	𐌊 u12BEB_u200D_u12A82.liga
3(N57).NUNUZ~c ~1 ≡.𐌋	𐌋 F2294	𐌋 u12BEB_u200D_u12A87.liga
3(N57).PIRIG~b1 ~1 ≡.𐌌	𐌌 F2295	𐌌 u12BEB_u200D_u12A98.liga
3(N57).RU ~1 ≡.𐌍	𐌍 F21A8	𐌍 u12BEB_u200D_u12AA5.liga

NAME/DECOMP	PUA	LIG/.liga
3(N57).RU ~2 ≡.⌋	≡⌋ F21A9	≡⌋ u12BEB_u200D_u12AA5.liga.cv99
3(N57).SANGA~b ≡.⌋	0	≡⌋ u12BEB_u200D_u12ABE.liga
3(N57).SI ≡.⌋	0	≡⌋ u12BEB_u200D_u12AC7.liga
1(N57).SIG ~1 -⌋	-⌋ F2285	-⌋ u12BE9_u200D_u12ACF.liga
2(N57).SU~a ~1 =⌋	=⌋ F228B	=⌋ u12BEA_u200D_u12B1D.liga
1(N57).ŠAH₂~a ~1 -⌋	-⌋ F2286	-⌋ u12BE9_u200D_u12B49.liga
1(N57).ŠUBUR ~2 -⌋	-⌋ F2213	-⌋ u12BE9_u200D_u12B9E.liga.cv99
2(N57).ŠUBUR ~1 =⌋	=⌋ F228C	=⌋ u12BEA_u200D_u12B9E.liga
3(N57).ŠUBUR ~1 ≡.⌋	≡⌋ F2296	≡⌋ u12BEB_u200D_u12B9E.liga
3(N57).UDU~a ~1 ≡.⊕	≡⊕ F2297	≡⊕ u12BEB_u200D_u12C25.liga
2(N57).UDUNITA~a ~1 =⌋	=⌋ F228D	=⌋ u12BEA_u200D_u12C2A.liga
3(N57).UDUNITA~a ~1 ≡.⌋	≡⌋ F2298	≡⌋ u12BEB_u200D_u12C2A.liga
1(N57).URU~a1 ~1 -⌋	-⌋ F2287	-⌋ u12BE9_u200D_u12C63.liga
2(N57).URU~a1 ~1 =⌋	=⌋ F228E	=⌋ u12BEA_u200D_u12C63.liga