

## **Materials for Encoding Proto-Cuneiform**

## Appendix A




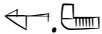














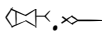


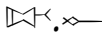





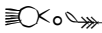


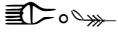

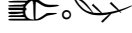






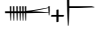


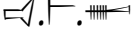

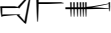
### SEQUENCES DATA

NAME/DECOMP	PUA	LIG/.liga
AMAR.1(N02) ~1 	 F225F	 u126C5uni200Du125BE.liga
AN.IM~a.GI <sub>6</sub>  ~1 	 F2260	 u126CCuni200Du128FUni200Du1288E.liga
APIN~a.APIN~a ~1 	 F2261	 u126D2uni200Du126D2.liga
BU~b.NA <sub>2</sub> ~a ~1 	 F227B	 u12716uni200Du12A10.liga
BULUG <sub>3</sub> .DU <sub>6</sub> ~a ~1 	 F2270	 u1271Auni200Du12750.liga
DA~a.LIŠ ~1 	 F227C	 u12720uni200Du129B5.liga
DU.U <sub>4</sub> .1(N14).1(N08) ~1 	 F2271	 u1274Duni200Du12BE1uni200Du12562uni200Du12559.liga
E <sub>2</sub> ~a.LIŠ ~1 	 F2263	 u127CAuni200Du129B5.liga
E <sub>2</sub> ~a.NUN~a ~1 	 F2262	 u127CAuni200Du12A74.liga
E <sub>2</sub> ~b.LIŠ ~1 	 F2264	 u127CEuni200Du129B5.liga

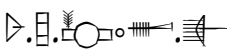

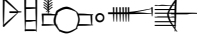





























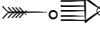


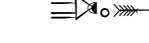









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EN~a.BAHAR <sub>2</sub> ~b.SIG <sub>7</sub> .ME~a.NUN~a ~1 	 F20CA	 u127D9uni200Du12B57uni200Du12803uni200Du12A74uni200Du12AE3.liga
EN~a.BAHAR <sub>2</sub> ~b.SIG <sub>7</sub> .ME~a.NUN~a ~2 	 F20CB	 u127D9uni200Du12B57uni200Du12803uni200Du12A74uni200Du12AE3.liga.cv01
EN~a.KID~a ~1 	 F2267	 u127D9uni200Du12941.liga
EN~a.ME~a.GI ~1 	 F2266	 u127D9uni200Du129E2uni200Du12878.liga
EN~a.ME~a.MU ~1 	 F2265	 u127D9uni200Du129E2uni200Du129EC.liga
EN <sub>2</sub> .E <sub>2</sub> ~a ~1 	 F2268	 u127E3uni200Du127CA.liga
EN <sub>2</sub> .E <sub>2</sub> ~b ~1 	 F2269	 u127E3uni200Du127CE.liga
EŠDA.NAM <sub>2</sub>  ~1 	 F2141	 u127F0uni200Du12A23.liga
EŠDA.NAM <sub>2</sub>  ~2 	 F2142	 u127F0uni200Du12A23.liga.cv01
GAL~a.BUR <sub>2</sub>  ~1 	 F2274	 u1284Euni200Du1271F.liga
GAL~a.NI~a ~1 	 F2272	 u1284Euni200Du12A3A.liga
GAL~a.NIM~a ~1 	 F2273	 u1284Euni200Du12A43.liga
GAL~a.UKKIN~a ~1 	 F2110	 u1284Euni200Du12C31.liga
GAL~a.UKKIN~a ~2 	 F2111	 u1284Euni200Du12C31.liga.cv01
GEŠTU~a.NAGA~a ~1 	 F227D	 u12871uni200Du12A16.liga

NAME/DECOMP	PUA	LIG/.liga
G <sub>l</sub> ~NUNUZ~c ~1 	 F2275	 u1288Euni200Du12A87.liga
GIR~a.KU <sub>6</sub> ~a ~1 	 F227E	 u12893uni200Du12965.liga
GIR~b.GIR~b ~1 	 F227F	 u12896uni200Du12896.liga
GIR <sub>3</sub> ~c.AB~a ~1 	 F2277	 u1289Funi200Du12698.liga
GIR <sub>3</sub> ~c.PIRIG~b1 ~1 	 F2276	 u1289Funi200Du12A98.liga
GiŠ.TE ~1 	 F226A	 u128A7uni200Du12BB9.liga
GiŠ@t.E <sub>2</sub> ~a ~1 	 F226B	 u128AEuni200Du127CA.liga
GU <sub>4</sub> .ZATU755~b ~1 	 F226C	 u128BEuni200Du12D7C.liga
GUKKAL~a.HI@g~a ~1 	 F226D	 u128CDuni200Du128F0.liga
HI.LAGAB~a ~1 	 F226E	 u128E6uni200Du12980.liga
HI.SUHUR ~1 	 F20F5	 u128E6uni200Du12B23.liga
HI.SUHUR ~2 	 F20F6	 u128E6uni200Du12B23.liga.cv01
HI.SUHUR ~3 	 F20F7	 u128E6uni200Du12B23.liga.cv02
HI×1(N57).HI×1(N57) ~1 	 F20F8	 u128ECuni200Du128EC.liga
HI×1(N57).HI×1(N57) ~2 	 F20F9	 u128ECuni200Du128EC.liga.cv01





NAME/DECOMP	PUA	LIG/.liga
IR~a.GA <sub>2</sub> ~a1 ~1 	 F2280	 u12903uni200Du12815.liga
KA~a.ŠE~a ~1 	 F2108	 u12914uni200Du12B52.liga
KA~a.ŠE~a ~2 	 F2109	 u12914uni200Du12B52.liga.cv01
KAK~a.GA <sub>2</sub> ~a1 ~1 	 F2281	 u12922uni200Du12815.liga
KU <sub>6</sub> ~a.Giš ~1 	 F2283	 u12965uni200Du128A7.liga
KU <sub>6</sub> ~a.1(N02) ~1 	 F2282	 u12965uni200Du125BE.liga
KUR~a.E <sub>2</sub> ~a ~1 	 F2279	 u1296Cuni200Du127CA.liga
KUR~a.NUNUZ~a1 ~1 	 F2278	 u1296Cuni200Du12A82.liga
KUR~a.RU ~1 	 F21A6	 u1296Cuni200Du12AA5.liga
KUR~a.RU ~2 	 F21A7	 u1296Cuni200Du12AA5.liga.cv01
KUR~b.E <sub>2</sub> ~a ~1 	 F227A	 u1296Funi200Du127CA.liga
LAGAB~b.TE  	0	 u12997uni200Du12BB9.liga
LU <sub>2</sub> .GAL~a ~1 	 F212A	 u129B6uni200Du1284E.liga
LU <sub>2</sub> .GAL~a ~2 	 F212B	 u129B6uni200Du1284E.liga.cv01
ME~a.EN~a.ŠE~a.ŠA ~1 	 F226F	 u129E2uni200Du127D9uni200Du12B52uni200Du12B37.liga

NAME/DECOMP	PUA	LIG/.liga
MUŠ <sub>3</sub> ~a.AB~a ~1 	 F2224	 u12A03uni200Du12698.liga
MUŠ <sub>3</sub> ~a.ERIN ~1 	 F2223	 u12A03uni200Du127EF.liga
MUŠ <sub>3</sub> ~a.UNUG~a ~1 	 F2222	 u12A03uni200Du12C44.liga
MUŠEN.UR <sub>3</sub> ~b2 ~1 	 F2225	 u12A05uni200Du12C58.liga
MUŠEN.3(N58) ~2 	 F221C	 u12A05uni200DuF011C.liga.cv01
1(N02).RU ~2 	 F2211	 u125BEuni200Du12AA5.liga.cv01
NAGAR~a.BU~a ~1 	 F2226	 u12A1Cuni200Du1270B.liga
NAGAR~b.BU~a ~1 	 F2227	 u12A1Duni200Du1270B.liga
NE~a.RU ~1 	 F2228	 u12A2Funi200Du12AA5.liga
NE~c.GI ~1 	 F20E3	 u12A33uni200Du12878.liga
NE~c.GI ~2 	 F20E4	 u12A33uni200Du12878.liga.cv01
NI~a.RU ~1 	 F2229	 u12A3Auni200Du12AA5.liga
NUN~a.ME~a ~1 	 F2082	 u12A74uni200Du129E2.liga
NUN~a.ME~a ~2 	 F2083	 u12A74uni200Du129E2.liga.cv01
NUN~a.ME~a.DU ~1 	 F2084	 u12A74uni200Du129E2uni200Du1274D.liga










































NAME/DECOMP	PUA	LIG/.liga
NUN~a.ME~a.DU ~2 	 F2085	 u12A74uni200Du129E2uni200Du1274D.liga.cv01
NUN~b.U <sub>4</sub> .U <sub>4</sub> .1(N14).1(N08)  	0	 u12A7Auni200Du12BE1uni200Du12BE1uni200Du12562uni200Du12559.liga
PA~a.IB~a ~1 	 F2181	 u12A8Cuni200Du128F4.liga
PA~a.IB~a ~2 	 F2182	 u12A8Cuni200Du128F4.liga.cv01
PA~a.IB~a ~3 	 F2183	 u12A8Cuni200Du128F4.liga.cv02
PA~a.TE.SI ~1 	 F222A	 u12A8Cuni200Du12BB9uni200Du12AC7.liga
PA~a.UDU~a ~1 	 F2171	 u12A8Cuni200Du12C25.liga
PA~a.UDU~a ~2 	 F2172	 u12A8Cuni200Du12C25.liga.cv01
PAP~a.IB~a ~1 	 F2184	 u12A91uni200Du128F4.liga
PAP~a.IB~a ~2 	 F2185	 u12A91uni200Du128F4.liga.cv01
SAL.KUR~a ~1 	 F2234	 u12AB5uni200Du1296C.liga
SAL.LAGAR~a ~1 	 F2232	 u12AB5uni200Du129A0.liga
SAL.LAM~b ~1 	 F2233	 u12AB5uni200Du129B1.liga
SAL.ME~a  	0	 u12AB5uni200Du129E2.liga
SAL.NAM <sub>2</sub>  ~1 	 F222B	 u12AB5uni200Du12A23.liga

NAME/DECOMP	PUA	LIG/.liga
SAL.NAM <sub>7</sub> .ŠE~a@t.EZEN~b.NUN~a.SIG <sub>7</sub>  -1 	 F222C	 u12AB5uni200Du12A23uni200Du12B57uni200Du12803uni200Du12A74uni200Du12AE3.liga
SAL.SI -1 	 F222D	 u12AB5uni200Du12AC7.liga
SAL.SILA <sub>4</sub> ~c -1 	 F222E	 u12AB5uni200Du12B15.liga
SAL.ŠU <sub>2</sub>  -1 	 F222F	 u12AB5uni200Du12B98.liga
SAL.ZATU751~a -1 	 F2230	 u12AB5uni200Du12D75.liga
SAL.ZATU751~b -1 	 F2231	 u12AB5uni200Du12D76.liga
SAL.ZATU751~c -1 	 F2235	 u12AB5uni200DuF300F.liga
SU~a.KUR~a.RU -1 	 F2236	 u12B1Duni200Du1296Cuni200Du12AA5.liga
ŠE~a.NAM <sub>2</sub>  -1 	 F218B	 u12B52uni200Du12A23.liga
ŠE~a.NAM <sub>2</sub>  -2 	 F218C	 u12B52uni200Du12A23.liga.cv01
ŠE~a.ŠA -1 	 F2126	 u12B37uni200Du12B52.liga
ŠE~a.ŠA -2 	 F2127	 u12B37uni200Du12B52.liga.cv01
ŠE~a@t.KIN <sub>2</sub> ~c -1 	 F2189	 u12B52uni200Du12948.liga
ŠE~a@t.KIN <sub>2</sub> ~c -2 	 F218A	 u12B52uni200Du12948.liga.cv01
ŠEŠ~a.NA~a -1 	 F2237	 u12B6Duni200Du12A0B.liga









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ŠITA~a1.MUD <sub>3</sub> ~a ~1 	 F2238	 u12B7Buni200Du129EF.liga
ŠU <sub>2</sub> .E <sub>2</sub> ~a ~1 	 F223C	 u12B98uni200Du127CA.liga
ŠU <sub>2</sub> .E <sub>2</sub> ~b ~1 	 F223D	 u12B98uni200Du127CE.liga
ŠU <sub>2</sub> .EN~a ~1 	 F219F	 u12B98uni200Du127D9.liga
ŠU <sub>2</sub> .EN~a ~2 	 F21A0	 u12B98uni200Du127D9.liga.cv01
ŠU <sub>2</sub> .EN~a ~3 	 F21A1	 u12B98uni200Du127D9.liga.cv02
ŠU <sub>2</sub> .EN~b ~1 	 F223E	 u12B98uni200Du127DA.liga
ŠU <sub>2</sub> .GIŠ ~1 	 F223F	 u12B98uni200Du128A7.liga
ŠU <sub>2</sub> .(HI×1(N57).HI×1(N57)) ~1 	 F2240	 u12B98uni200Du128ECu128EC.liga
ŠU <sub>2</sub> .PAP~a ~2 	 F221D	 u12B98uni200Du12A91.liga.cv01
ŠU <sub>2</sub> .PAP~a.AN ~2 	 F219E	 u12B98uni200Du12A91uni200Du126CC.liga.cv01
ŠU <sub>2</sub> .URI <sub>3</sub> ~a ~1 	 F2239	 u12B98uni200Du12C5F.liga
ŠU <sub>2</sub> .1(N02) ~1 	 F223B	 u12B98uni200Du125BE.liga
ŠU <sub>2</sub> .1(N24) ~1 	 F223A	 u12B98uni200Du125AA.liga

NAME/DECOMP	PUA	LIG/.liga
ŠU <sub>2</sub> .2(N57) ~1 	 F2241	 u12B98uni200DuF0111.liga
ŠUBUR.1(N57) ~1 	 F2212	 u12B9Euni200DuF0110.liga
TE.A ~1 	 F2242	 u12BB9uni200Du12690.liga
TUG <sub>2</sub> ~a.BAD&BAD ~1 	 F2243	 u12BC4uni200Du126E0.liga
TUR <sub>3</sub> ~a.5(N57).5(N57) ~2 	 F221E	 u12BD8uni200DuF0114uni200DuF0114.liga.cv01
U <sub>4</sub> .AB~b ~1 	 F2246	 u12BE1uni200Du126A3.liga
U <sub>4</sub> .ŠU <sub>2</sub>  ~1 	 F2244	 u12BE1uni200Du12B98.liga
U <sub>4</sub> .1(N08) ~1 	 F224D	 u12BE1uni200Du12559.liga
U <sub>4</sub> .2(N08) ~1 	 F2247	 u12BE1uni200Du1255A.liga
U <sub>4</sub> .3(N08) ~1 	 F2248	 u12BE1uni200Du1255B.liga
U <sub>4</sub> .4(N08) ~1 	 F2249	 u12BE1uni200Du1255C.liga
U <sub>4</sub> .5(N08) ~1 	 F224A	 u12BE1uni200Du1255D.liga
U <sub>4</sub> .6(N08) ~1 	 F224B	 u12BE1uni200Du1255E.liga
U <sub>4</sub> .7(N08) ~1 	 F224C	 u12BE1uni200Du1255F.liga

NAME/DECOMP	PUA	LIG/.liga
U <sub>4</sub> .8(N08) ~1 	 F224E	 u12BE1uni200Du12560.liga
U <sub>4</sub> .1(N14) ~1 	 F224F	 u12BE1uni200Du12562.liga
U <sub>4</sub> .1(N14).1(N08)  	0	 u12BE1uni200Du12562uni200Du12559.liga
U <sub>4</sub> .1(N14).3(N08) ~1 	 F2250	 u12BE1uni200Du12562uni200Du1255B.liga
U <sub>4</sub> .1(N14).4(N08) ~1 	 F2251	 u12BE1uni200Du12562uni200Du1255C.liga
U <sub>4</sub> .1(N14).5(N08) ~1 	 F2252	 u12BE1uni200Du12562uni200Du1255D.liga
U <sub>4</sub> .1(N14).8(N08) ~1 	 F2253	 u12BE1uni200Du12562uni200Du12560.liga
U <sub>4</sub> .2(N14) ~1 	 F2254	 u12BE1uni200Du12563.liga
U <sub>4</sub> .1(N24) ~1 	 F2245	 u12BE1uni200Du125AA.liga
U <sub>4</sub> ×1(N01).5(N08) ~1 	 F2255	 u12BF3uni200Du1255D.liga
U <sub>4</sub> ×2(N01).2(N14) ~1 	 F2256	 u12BF5uni200Du12563.liga
U <sub>4</sub> ×2(N01).2(N14).1(N08) ~1 	 F2257	 u12BF5uni200Du12563uni200Du12559.liga
U <sub>4</sub> ×3(N01).3(N08) ~1 	 F2258	 u12BF9uni200Du1255B.liga
U <sub>4</sub> ×4(N01).2(N14) ~1 	 F2259	 u12BFBuni200Du12563.liga

NAME/DECOMP	PUA	LIG/.liga
U <sub>4</sub> ×5(N01).1(N14) ~1 	F225A	u12BFDuni200Du12562.liga
U <sub>4</sub> ×(1(N14).3(N01)).1(N14).4(N08).1(N14).5(N08) ~2 	F221F	uF3094uni200Du12562uni200Du1255Cuni200Du12562uni200Du1255C.liga.cv01
URI <sub>3</sub> ~a.AB~a ~1 	F225D	u12C5Funi200Du12698.liga
URI <sub>3</sub> ~a.IB~a ~1 	F225C	u12C5Funi200Du128F4.liga
URI <sub>3</sub> ~a.NA~a ~1 	F2143	u12C5Funi200Du12A0B.liga
URI <sub>3</sub> ~a.NA~a ~2 	F2144	u12C5Funi200Du12A0B.liga.cv01
URI <sub>3</sub> ~a.NA~a ~3 	F2145	u12C5Funi200Du12A0B.liga.cv02
URI <sub>3</sub> ~a.UNUG~a ~1 	F225B	u12C5Funi200Du12C44.liga
UŠ~b.KUR~a ~1 	F20FE	u12C7Euni200Du1296C.liga
UŠ~b.KUR~a ~2 	F20FF	u12C7Euni200Du1296C.liga.cv01
ZATU714.RU ~1 	F225E	u12D36uni200Du12AA5.liga
ZATU753.GA~a ~1 	F20D0	u12D79uni200Du1280E.liga
ZATU753.GA~a ~2 	F20D1	u12D79uni200Du1280E.liga.cv01
1(N57).AB <sub>2</sub>  ~1 	F2288	uF0110uni200Du126A7.liga
2(N57).AB <sub>2</sub>  ~1 	F228F	uF0111uni200Du126A7.liga

NAME/DECOMP	PUA	LIG/.liga
3(N57).AMAR ~1 ≡.⤵	⇒ F2299	⇒ uF0112uni200Du126C5.liga
4(N57).AMAR ~1 ≡.⤵	⇒ F229F	⇒ uF0113uni200Du126C5.liga
3(N57).AZ  ≡.⤵	0	⇒ uF0112uni200Du126DC.liga
3(N57).BAR×UŠ~a ~1 ≡.⤵	⇒ F229E	⇒ uF0112uni200DuF3095.liga
3(N57).BARA <sub>3</sub>  ~1 ≡.⤵	⇒ F229C	⇒ uF0112uni200Du12702.liga
2(N57).BIR <sub>3</sub> ~a ~1 =. ⤵	⇒ F2290	⇒ uF0111uni200Du12706.liga
1(N57).BU <sub>3</sub>   -. ⤵	0	- uF0110uni200Du12718.liga
2(N57).DU <sub>6</sub> ~a@n  =. □	0	= □ uF0111uni200DuF3089.liga
1(N57).E <sub>2</sub> ~a ~1 -. ⤵	- F2289	- uF0110uni200Du127CA.liga
3(N57).E <sub>2</sub> ~b ~1 ≡.⤵	⇒ F229A	⇒ uF0112uni200Du127CE.liga
3(N57).EN <sub>2</sub>   ≡.⤵	0	⇒ uF0112uni200Du127E3.liga
3(N57).GAR ~1 ≡.⤵	⇒ F229D	⇒ uF0112uni200Du12868.liga
4(N57).GAR ~1 ≡.⤵	⇒ F22A0	⇒ uF0113uni200Du12868.liga
5(N57).GAR ~1 ≡.⤵	⇒ F22A2	⇒ uF0114uni200Du12868.liga

NAME/DECOMP	PUA	LIG/.liga
6(N57).GAR ~1 	 F22A4	 uF0115uni200Du12868.liga
7(N57).GAR ~2 	 F2221	 uF0116uni200Du12868.liga.cv01
4(N57).KU <sub>3</sub> ~a ~1 	 F22A1	 uF0113uni200Du12963.liga
5(N57).KU <sub>3</sub> ~a ~1 	 F22A3	 uF0114uni200Du12963.liga
6(N57).KU <sub>3</sub> ~a ~1 	 F22A5	 uF0115uni200Du12963.liga
2(N57).KU <sub>6</sub> ~a ~1 	 F2291	 uF0111uni200Du12965.liga
3(N57).LAM~a.KUR~a.RU ~1 	 F229B	 uF0112uni200Du129ACuni200Du1296Cuni200Du12AA5.liga
1(N57).MUŠEN ~1 	 F2284	 uF0110uni200Du12A05.liga
2(N57).MUŠEN ~1 	 F228A	 uF0111uni200Du12A05.liga
3(N57).MUŠEN ~1 	 F2292	 uF0112uni200Du12A05.liga
3(N57).NUNUZ~a1 ~1 	 F2293	 uF0112uni200Du12A82.liga
3(N57).NUNUZ~c ~1 	 F2294	 uF0112uni200Du12A87.liga
3(N57).PIRIG~b1 ~1 	 F2295	 uF0112uni200Du12A98.liga
3(N57).RU ~1 	 F21A8	 uF0112uni200Du12AA5.liga

NAME/DECOMP	PUA	LIG/.liga
3(N57).RU ~2 ≡.⌋	≡⌋ F21A9	≡⌋ uF0112uni200Du12AA5.liga.cv01
3(N57).SANGA~b  ≡.⌋	0	≡⌋ uF0112uni200Du12ABE.liga
3(N57).SI  ≡.⌋	0	≡⌋ uF0112uni200Du12AC7.liga
1(N57).SIG ~1 -⌋	-⌋ F2285	-⌋ uF0110uni200Du12ACF.liga
2(N57).SU~a ~1 =⌋	=⌋ F228B	=⌋ uF0111uni200Du12B1D.liga
1(N57).ŠAH₂~a ~1 -⌋	-⌋ F2286	-⌋ uF0110uni200Du12B49.liga
1(N57).ŠUBUR ~2 -⌋	-⌋ F2213	-⌋ uF0110uni200Du12B9E.liga.cv01
2(N57).ŠUBUR ~1 =⌋	=⌋ F228C	=⌋ uF0111uni200Du12B9E.liga
3(N57).ŠUBUR ~1 ≡.⌋	≡⌋ F2296	≡⌋ uF0112uni200Du12B9E.liga
3(N57).UDU~a ~1 ≡.⊕	≡⊕ F2297	≡⊕ uF0112uni200Du12C25.liga
2(N57).UDUNITA~a ~1 =⌋	=⌋ F228D	=⌋ uF0111uni200Du12C2A.liga
3(N57).UDUNITA~a ~1 ≡.⌋	≡⌋ F2298	≡⌋ uF0112uni200Du12C2A.liga
1(N57).URU~a1 ~1 -⌋	-⌋ F2287	-⌋ uF0110uni200Du12C63.liga
2(N57).URU~a1 ~1 =⌋	=⌋ F228E	=⌋ uF0111uni200Du12C63.liga