

		1160	1180	1200	
UTX Human	AEVLKACRN	LGNLSNSSI	LLDKCPPPR	PPSSPYPLPKDKLNPPTPSI	YLENKRDAFFPPLHQFC 960
UTY Human	TEVLKACRN	PGKNLSNSC	ILLDKCPPPR	PPTSPYPPLPKDKLNPPTPSI	YLENKRDAFFPPLHQFC 907
Smp 034000	---	LRGLGHS	G--GPWWPGL	LPEGSPIPKPPAKPYPPPPKDKLL	PPTPSVYLENRNDAHSPELMRYC 640
JMJD3 Human	ADVVRAS	SRNAKVKG	KFRESYLSP-AQSVK	PKINTEEKLPREKLN	PPTPSIYLESKRDAFSPVLLQFC 1205

		1220	1240	1260	
UTX Human	TNPNNPVT	VIRGLAGALK	LDLGLFSTKT	LVLEANNEHMVEVRTQLLQ	PADENWDPTGTGKKIWHCESNR 1027
UTY Human	TNPKNPVT	VIRGLAGALK	LDLGLFSTKT	LVLEANNEHMVEVRTQLLQ	PADENWDPTGTGKKIWRCESNR 974
Smp 034000	FT--QP	VVIRGLAAAL	RDLGLFSTKSLVES	NPEHRVEVRTQRLQSPDQNL	DSQG-RTVWLCESPK 704
JMJD3 Human	TDPRNPIT	VIRGLAGSL	RNLNGLFSTKT	LVLEASGEHTVEVRTQVQ	QPSDENWDLTGTRQIWPCESSR 1272

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		1280	1300	1320	1340
UTX Human	SHTTIAKYAQYQASSFOESLREE	-----	NEKRS	-----	H 1056
UTY Human	SHTTIAKYAQYQASSFOESLREE	-----	NEKRT	-----	Q 1003
Smp 034000	TTTIAKYGAYQAASFIEAMKEE	KIVNFGSGAPVTSTPTSNTIS	AISVDTKSSTGNLSNAVTG	SGRK	771
JMJD3 Human	SHTTIAKYAQYQASSFOESLQEE	-----	KES	-----	E 1299

		1360	1380	1400					
UTX Human	HKDHS	DESTSSDN	-----	SGRRRKGPFKT	IKFGTNI	DLSDDKKWKQLQLHEL 1103			
UTY Human	HKDHS	DNESSTSEN	-----	SGRRRKGPFKT	IKFGTNI	DLSDNKKWKQLQLHEL 1050			
Smp 034000	NSTHWS	SESTNSELNVNQ	PHPVGSKL	SGDENNSL	SNQONS	GRLLKLI	RFGTNC	DLSDQKKWL	QLHEL 838
JMJD3 Human	DEESEEPD	STTGTPP	-----	SSAPDPKNHHI	IKFGTNI	DLSDAKR	WKQLQLQL 1347		

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		1420	1440	1460		
UTX Human	TKLP	AFVRVVSAGNLL	SHVGHTILGMNTVQLYMKVPGS	RTPGHQENNNFCSVNINIGPGDCEWFVVP	1170	
UTY Human	TKLP	AFARVVSAGNLL	THVGHTILGMNTVQLYMKVPGS	RTPGHQENNNFCSVNINIGPGDCEWFVVP	1117	
Smp 034000	TKLP	PIFVRVVS	AFNMLSHVGYP	LLGLNTVQLYLKVPGS	RTPGHQENNNFCAVNINIGPGDCEWFVVP	905
JMJD3 Human	LKLP	AFMRVTSTGNM	LSHVGHTILGMNTVQLYMKVPGS	RTPGHQENNNFCSVNINIGPGDCEWFAVH	1414	

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		1480	1500	1520	1540	
UTX Human	EGYWG	VLNDFCEKNNL	NFLMGSWWPN	LEDLYEANVPVYRFI	QRPGLVWINAGTVHWVQAI	IGWCNNI 1237
UTY Human	EDYWG	VLNDFCEKNNL	NFLMSSWWPN	LEDLYEANVPVYRFI	QRPGLVWINAGTVHWVQAV	IGWCNNI 1184
Smp 034000	EQYWG	CAIHNLCEKNN	VDYLTGSSWWPD	LETLYKEEIPVYRFI	QRPGLVWINAGTVHWVQAI	IGWCNNI 972
JMJD3 Human	EHYWE	TISAFCDRH	GVDYLTGSSWWP	ILDLDLYASNI	PVYRFVQRPGLVWINAGTVHWVQAT	IGWCNNI 1481

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		1560	1580	1600		
UTX Human	AWN	VGPI	TACQYKL	AVERYEWNKLSVKS	I	VPMVHLSWNMARNIKVSDPKLFEMIKYCLLRTLKQCQ 1304
UTY Human	AWN	VGPI	TACQYKL	AVERYEWNKLSVKS	P	VPMVHLSWNMARNIKVSDPKLFEMIKYCLLKILKQYQ 1251
Smp 034000	AWN	VCMT	ARQYQL	AVERYEFNRLRGVKS	V	PMTHLSWQLAKNIKISDPGLFELIKHTLLRSFIQSQ 1039
JMJD3 Human	AWN	VGPI	TAYQYQL	ALERYEWNKLSVKS	I	VPMIHVSWNVARTVKISDPDLFKMIKFCLLQSMKHQC 1548

		1620	1640	1660		
UTX Human	TLREAL	IAAGKEII	WHGRTKEEPAHYCSICEVEVF	DLFLVTNESNSRKYIVH	QDCARKTS	SGNLEN 1371
UTY Human	TLREAL	VAAAGKEVI	WHGRTNDEPAHYCSICEVEVF	NLLFVTNESNTQKTYIVH	CHDCARKTS	SKSLEN 1318
Smp 034000	LT	TDFLEKMN	LTIKHGKRSDDIAHS	CHDCEIEVF	NILFVLSQD---	KKLVVRCLDCARRMDSTLKT 1103
JMJD3 Human	VQ	RESLVR	AGKTIAYQGRVK	DEPAYYCNECDVEVF	NILFVTSENGSRNTYLVH	CEGCARRRSAGLQG 1615

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		1680	1700	
UTX Human	FVVLEQYK	MEDLMQVYDQFTL	APPLPSASS----	1401
UTY Human	FVVLEQYK	MEDLIQVYDQFTL	ALSLSSSS----	1347
Smp 034000	FI	LSEYHI	HELAEIFDKFQLQTQ	PITAYPVGKT 1137
JMJD3 Human	VVVLEQY	RTFELAQAYDAFTL	APASTSR-----	1643