Supplementary Figure 3: Amino acid alignments of human and mouse proteins homologous to yeast Utp14.

yeast Utp14 1 human UTP14A 1 mouse Utp14A 1 mouse Utp14B 1 human UTP14C 1	MAKKIK SK SR SKISSRRVLDALOLAERELINGE FDN SSDNDKRHDARRNGTVVNLLKR SK GDTNSD 63 MTANRLAESLLALSOOEELADLPKDYLLSESED 33 MR PDPSSRANRPCEKKE AATMNMARNVTDLLALSOOEELVDLTSNYPLSTSED 53 MR PDPSSRANRPCEKKE AATMNMARNVTDLLALSOOEELVDLPENYPLSTSED 53 MTANRLAESLLALSOOEELADLPKDYLLSESED 53
yeast Utp14 64 human UTP14A 34 mouse Utp14A 34 mouse Utp14B 54 human UTP14C 34	EDDIDSESFEDEELNSDEALGSDDDYDILNSKFSQTIRDKKENANYQEEEDEGGYTSIDEEDL 126 EGDNDGERKHOKLLEAISSLDGKNRRKLA. EGDSDGERKHOKLLEAISSLSGKNRWKLP. EGDSDGEGKROKLLEAVSSLGRKNKWKLA. EGDNDGERKHOKLLEAISSLDGKNRRKLA.
yeast Utp14 127 human UTP14A 63 mouse Utp14A 63 mouse Utp14B 83 human UTP14C 63	MPLSQVWDMDEKTAQSNGNDDEDASPQLKLQDTDISSESSSSEESEDDEEEEDPFDEIIS 199
yeast Utp14 190 human UTP14A 105 mouse Utp14A 105 mouse Utp14B 125 human UTP14C 105	E D E E D I E L N T I T S K L I D E T K S K A P K R L D T Y G S G E A N E Y V L P S A N A A S G A S G K L S L T D M M N V I D K O L S R V K S K
yeast Utp14 253 human UTP14A 114 mouse Utp14A 114 mouse Utp14B 133 human UTP14C 114	DRQVIENANLLKGKSSTYEVPLPORIQORHDRKAAYEISRQEVSKWNDIVQONRBADHLIFPL 315
yeast Utp14 316 human UTP14A 162 mouse Utp14A 162 mouse Utp14B 181 human UTP14C 162	NKPTEHNHASAFTRTQDVPQTELQEKVDQVLQESN-LANPEKDSKFEELSTAKMTPEEMRKRT 377 EKEEPAIAPIEHVLSGWKARTPLEOEIFNLLHKNKOPVTDPLLTPVEKASLRAMSLEEAKMRR 224 EKEPSFAPMEHVFREWKARTPLEOEVFNLLHKNKOPVTDPLLTPVEKASLKAMSLEEAKIRR 243 EKEPPAVAPIEHVFTDWKVRTPLEOEVFNLLHKNKOPVTDPLLTPVEKASLRAMSLEEAKIRR 243 EKEEPAIAPIEHVLSGWKARTPLEOEVFNLLHKNKOPVTDPLLTPVEKASLRAMSLEEAKIRR 243
yeast Utp14 378 human UTP14A 225 mouse Utp14A 225 mouse Utp14B 244 human UTP14C 225	TEMR LMRELMEREERKARRLKKIKSKITYRKIKKK,ELMKINRELAAVISSDEDNEDHD 432 AELORARALOSYYEAKARREKKIKSKKIYHKIVKKGKAKKALKEFEOLRKVINPAAALEELEKIE AELORARALOSYYEARARREKKIKSKKIYHKIVKKGKAKKALKEFEELMKVDPDAALEELEKME AELORMRALOSYYEARARREKKIKSKKIYHKIVKKGKAKKALKEFEELMKVDPAAALEELEKME AELORARALOSYYEARARREKKIKSKKIYHKIVKKGKAKKALKEFEEILMKVNPAAALEELEKIE AELORARALOSYYEARARREKKIKSKKIYHKIVKKGKAKKALKEFE
yeast Utp14 433 human UTP14A 288 mouse Utp14A 288 mouse Utp14B 307 human UTP14C 288 yeast Utp14 496 human UTP14A 350 mouse Utp14B 368 human UTP14C 350	LA RAKERMTLKHKTNSKWAKDMIKHGMTNDAETREEMERMLROGERLKAKMLDRNSDDEEDGR KARMMERMSLKHONSGKWAKSKAIMAKY'D LEARQAMOEOLSKNKELTOKLOVASESEEEEGG KARMMERMSLKHONSGKWAKSKAIMAKY'D LEARQAMOEOLAKNKELTOKLOVASESEEEGG KARMMERMSLKHONSGKWAKSKAIMAKY'D LEARQAMOEOLAKNRELTOKLOVVSESEEEGG KARMMERMSLKHONSGKWAKSKAIMAKY'D LEARQAMOEOLAKNRELTOKLOVVSESEEEGG VOTLSDVENEEKINONSGKWAKSKAIMAKY'D LEARQAMOEOLAKNRELTOKLOVVSESEEEGG VOTLSDVENEEKINONSGKWAKSKAIMAKY'D LEARQAMOEOLAKNRELTOKLOVVSESEEEGG VOTLSDVENEEKINONSGKWAKSKAIMAKY'D LEARQAMOEOLAKNRELTOKLOVVSESEEEEGG VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNRELTOKLOVVSESEEEEGG VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNRELTOKLOVVSESEEEEGG VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNRELTOKLOVSESEEGEE USSVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNRE VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNRE VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNRE VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNRE VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNRE VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNNEE VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNNEE VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNNEE VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNNEE VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNNEE VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNNEE VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNNEE VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNNEEKIN VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNNEEKIN VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELARQAMOEOLAKNNEEKIN VOTLSDVENEEKINONSGKWAKSKAIMAKY'S DELAKSKAIMAKY'S DELARQAMOEOLAKNNEEKIN TEDVIELLSVPDVVNEVONNADG VONNADG VON KANSKAIMAKNEEKINONSEKIN VONNAD VONNADG VONNADG VON KANSKAIMAKSKAIMAKANAKNEEKIN TEDVIELLSVPDVVNEVONNADG VONNADG VONNANSKAIMAKSKAIMAKANAKINA VIELARQAMOEOLAKNAKSKAIMAKANAKANAKINAKANAKANAKANAKANAKANAKANAKAN
yeast Utp14 559 human UTP14A 413 mouse Utp14A 413 mouse Utp14B 431 human UTP14C 413	LFEISDEIEETNGENIQINKGRAUTTPGSLESNKDMNELNDHTRKENKVDESASLENRLAA-KNS 620 PVAEEEILLREEEERRSLAKRSELSODAEPAGSOETKDSGSOEVLSELRVLSOKL-KEN 470 AEEDELLKELEKRASLAKRSELNOAAEPLGNOETKDSTSOEVLSELRALSKKLSKEN 476 PVAEELVLKERSRSFOERVDPNNAKLMDGOETEDSDSOEVLOKLN-KES 476 PVAEEEILLREFEERRSLAKRSELSODAEPAGSOETKDSGSOEVLSELRVLSOKL-KEN 470 PVAEEEILLREFEERRSLAKRSELSODAEPAGSOETKDSGSOEVLSELRVLSOKL-KEN 470
yeast Utp14 621 human UTP14A 471 mouse Utp14A 470 mouse Utp14B 477 human UTP14C 471	GOSKNARTNAEGAIIVEEESDGEPLODGONNOODEEAKDVNPWLANESDEEHTVKKOSSKVNV HOSRIKOKASSEGTIPOVOREEPAPEEEPLLORPERVOTLEELEELGKEECFONKELPRP531 HLSKKOKKSPAKAVULVWKRTLPORKDEPLLLORPERMRTLEELEELGKEDSLPNKERPRP5531 HOSDNOKVSSEENVUHIORED-LAISEKLLVLORPERMRTLEELEELGKEEYPPKKGLSRP5535 HOSRIKOKASSEGTIPOVOREEPAPEEEEPLLLORPERVOTLEELEELGKEECFONKELPRP5531
yeast Utp14 684 human UTP14A 532 mouse Utp14A 532 mouse Utp14B 536 human UTP14C 532	IDKDSSKNVKAMNKMEKAELKOKKKKKGKSNDDEDLLLTADDSTALKIVDPYGGSD-DEOGDN 745
yeast Utp14 746 human UTP14A 586 mouse Utp14A 583 mouse Utp14B 590 human UTP14C 586	VEMEKOO DVIAEAFAGDDVVAEFQEEKKRVIDDEDDKEVDTTLPGWGEWAGAGSKPKNKKRKF EEERNHROMIKEAFAGDDVIRDFLKEKREAVEASKPKDVDLTLPGWGEWGGVGLKPSAKKR646 GGARDOKOMIKEAFAGDDVIREFLKEKREAIOANKAVDLTLPGWGEWGGMNLKPSARKARAR EVETDHKQLIREAFAGDDVIREFLKEKREAIEINKPKDVDLTLPGWGEWVGMGLKPSAKKR650 EEERNHROMIKEAFAGDDVIREFLKEKREAVEASKPKDVDLTLPGWGEWVGMGLKPSAKKR646
yeast Utp14 809 human UTP14A 647 mouse Utp14A 646 mouse Utp14B 651 human UTP14C 647	I KKVVK GVVN K D KREDKNLONVI I NEKVNKKNLKYQSSAVPEPENREQYERSLRMPIGO EWTS RBFLIKAPEG PPRKDKNLPNVI I NEKRNI HAAAHOVRVLPYPETHHWOFERTIO TPIGSTWNT F- LIKAPEG PPRKDKNLPNVI I SEKRNI HAAAHOVRVLPYPETHHOOFERTIO NPIGSTWNT RRFLIKAPEG PPRKDKNLPNVI I SEKRNI HAAAHOVRVLPYPETHHOOFERTIO NPIGSTWNT RRFLIKAPEG PPRKDKNLPNVI I NEKRNI HAAAHOVRVLPYPETHHOOFERTIO NPIGSTWNT RRFLIKAPEG PPRKDKNLPNVI I NEKRNI HAAAHOVRVLPYPETHHWOFERTIO TPIGSTWNT 709
yeast Utp14 872 human UTP14A 710 mouse Utp14A 707 mouse Utp14B 714 human UTP14C 710	RASHQELIKPRIMTKPGQVIDPLKAPFK