

Table S2. Abundance of RNA-binding proteins in U-2 OS cells

<i>SP_id</i>	<i>Description</i>	<i>Copies per cell</i>	<i>Predominant Localization***</i>	<i>Xenopus oocytes ratio (Nucleus/Cell)</i>
P09651	Heterogeneous nuclear ribonucleoprotein A1 OS=Homo sapiens GN=HNRNPA1 PE=1 SV=4	1.17E+07	N	0.865162025
P61604	Heterogeneous nuclear ribonucleoproteins A2/B1 OS=Homo sapiens GN=HNRNPA2B1 PE=1 SV=2	9.27E+06	N	0.90460893
P78371	Nucleophosmin OS=Homo sapiens GN=NPM1 PE=1 SV=2	8.95E+06	N	0.959054472
P08758	Small nuclear ribonucleoprotein Sm D3 OS=Homo sapiens GN=SNRPD3 PE=1 SV=1	6.53E+06	N	0.624242583
Q15365	Eukaryotic initiation factor 4A-I OS=Homo sapiens GN=EIF4A1 PE=1 SV=1	2.22E+06	C	0.118838446
P52565	Poly(rC)-binding protein 1 OS=Homo sapiens GN=PCBP1 PE=1 SV=2	2.09E+06	N/C	0.55038533** (PCBP2 Xenopus)
P63220	Heterogeneous nuclear ribonucleoprotein K OS=Homo sapiens GN=HNRNPK PE=1 SV=1	1.81E+06	N	0.893300601
P62826	Polypyrimidine tract-binding protein 1 OS=Homo sapiens GN=PTBP1 PE=1 SV=1	1.74E+06	N	0.710984436
P46783	Splicing factor, arginine/serine-rich 1 OS=Homo sapiens GN=SFRS1 PE=1 SV=2	1.45E+06	N	0.934528339
P25398	Heterogeneous nuclear ribonucleoprotein M OS=Homo sapiens GN=HNRNPM PE=1 SV=3	1.41E+06	N	0.899923325
Q02790	Heterogeneous nuclear ribonucleoproteins C1/C2 OS=Homo sapiens GN=HNRNPC PE=1 SV=4	1.33E+06	N	0.929915678
P26038	Heterogeneous nuclear ribonucleoprotein H OS=Homo sapiens GN=HNRNPH1 PE=1 SV=4	1.01E+06	N	0.90422836
P61960	Heterogeneous nuclear ribonucleoprotein L OS=Homo sapiens GN=HNRNPL PE=1 SV=2	9.86E+05	N	0.851381525
Q14019	Nuclease-sensitive element-binding protein 1 OS=Homo sapiens GN=YBX1 PE=1 SV=3	9.25E+05	C	0.08298431
P07858	Small nuclear ribonucleoprotein E OS=Homo sapiens GN=SNRPE PE=1 SV=1	7.95E+05	N/C	0.508898869
Q02878	Inosine-5'-monophosphate dehydrogenase 2 OS=Homo sapiens GN=IMPDH2 PE=1 SV=2	7.59E+05	C	0.250793517
O75506	Poly(rC)-binding protein 2 OS=Homo sapiens GN=PCBP2 PE=1 SV=1	7.28E+05	N/C	0.55038533
P25789	Small nuclear ribonucleoprotein Sm D2 OS=Homo sapiens GN=SNRPD2 PE=1 SV=1	7.09E+05	N/C	0.503074085
P61916	ATP-dependent RNA helicase DDX1 OS=Homo sapiens GN=DDX1 PE=1 SV=2	6.23E+05	N/C	0.449938253
P60981	Small nuclear ribonucleoprotein G-like protein OS=Homo sapiens PE=3 SV=2, Small nuclear ribonucleoprotein G OS=Homo sapiens GN=SNRPG PE=1 SV=1	5.96E+05	N/C	0.475710614
P43487	Nucleolin OS=Homo sapiens GN=NCL PE=1 SV=3	5.71E+05	N	0.958186334
Q9P258	Polyadenylate-binding protein 1 OS=Homo sapiens GN=PABPC1 PE=1 SV=2	5.48E+05	C	0.087638267
Q9UK76	Heterogeneous nuclear ribonucleoprotein H3 OS=Homo sapiens GN=HNRNPH3 PE=1 SV=2	5.14E+05	N	0.90422836
P63000	Probable ATP-dependent RNA helicase DDX5 OS=Homo sapiens GN=DDX5 PE=1 SV=1	4.91E+05	N	0.9009544
Q96C19	Matrin-3 OS=Homo sapiens GN=MATR3 PE=1 SV=2	4.58E+05	N	0.834105493
Q9Y3F4	Heterogeneous nuclear ribonucleoprotein U OS=Homo sapiens GN=HNRNPU PE=1 SV=6	4.52E+05	N	0.932842549
P38646	Ras GTPase-activating protein-binding protein 1 OS=Homo sapiens GN=G3BP1 PE=1 SV=1	4.31E+05	C	0.047763829
P07741	ATP-dependent RNA helicase A OS=Homo sapiens GN=DHX9 PE=1 SV=4	4.13E+05	N	0.918895601
Q99623	Small nuclear ribonucleoprotein Sm D1 OS=Homo sapiens GN=SNRPD1 PE=1 SV=1	4.02E+05	N/C	0.426738706
Q8WUH6	rRNA 2'-O-methyltransferase fibrillarin OS=Homo sapiens GN=FBL PE=1 SV=2	3.85E+05	N	0.933957181
P31150	Protein mago nashi homolog 2 OS=Homo sapiens GN=MAGOHB PE=1 SV=1	3.47E+05	N	0.920138519
P84090	Small nuclear ribonucleoprotein-associated proteins B and B' OS=Homo sapiens GN=SNRPB PE=1 SV=2	3.38E+05	N	0.90*
Q14376	Heterogeneous nuclear ribonucleoprotein D0 OS=Homo sapiens GN=HNRNPD PE=1 SV=1	3.31E+05	N	0.668590832
O43809	Heterogeneous nuclear ribonucleoprotein F OS=Homo sapiens GN=HNRNPF PE=1 SV=3	3.29E+05	N	0.90*
P53004	Eukaryotic initiation factor 4A-III OS=Homo sapiens GN=EIF4A3 PE=1 SV=4	3.28E+05	N	0.943525213

P13987	Cleavage and polyadenylation specificity factor subunit 5 OS=Homo sapiens GN=NUDT21 PE=1 SV=1	3.26E+05	N	0.935487901
P78417	Eukaryotic initiation factor 4A-II OS=Homo sapiens GN=EIF4A2 PE=1 SV=2	2.91E+05	C	0.10*
P18206	Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15 OS=Homo sapiens GN=DHX15 PE=1 SV=2	2.80E+05	N	0.952962041
P41567	RNA-binding protein Raly OS=Homo sapiens GN=RALY PE=1 SV=1	2.66E+05	N	0.90*
Q9POL0	Splicing factor, arginine/serine-rich 9 OS=Homo sapiens GN=SFRS9 PE=1 SV=1	2.64E+05	N	0.90*
Q9UHX1	Splicing factor U2AF 65 kDa subunit OS=Homo sapiens GN=U2AF2 PE=1 SV=4	2.62E+05	N	0.957950656
P62330	Poly(U)-binding-splicing factor PUF60 OS=Homo sapiens GN=PUF60 PE=1 SV=1	2.59E+05	N	0.828304238
P15374	Heterogeneous nuclear ribonucleoprotein D-like OS=Homo sapiens GN=HNRPDL PE=1 SV=3	2.51E+05	N	0.867710595
O14980	Spliceosome RNA helicase BAT1 OS=Homo sapiens GN=BAT1 PE=1 SV=1	2.46E+05	N	0.916415506** (DDX39A Xenopus)
P45973	Heterogeneous nuclear ribonucleoprotein A0 OS=Homo sapiens GN=HNRNPA0 PE=1 SV=1	2.32E+05	N	0.846837544
P30085	Heterogeneous nuclear ribonucleoprotein G OS=Homo sapiens GN=RBMX PE=1 SV=3	2.31E+05	N	0.87785011
Q9NRV9	Probable ATP-dependent RNA helicase DDX6 OS=Homo sapiens GN=DDX6 PE=1 SV=2	2.30E+05	C	0.044246624
O00571	RNA-binding protein 8A OS=Homo sapiens GN=RBM8A PE=1 SV=1	2.30E+05	N	0.932722991
P61086	ATP-dependent RNA helicase DDX3X OS=Homo sapiens GN=DDX3X PE=1 SV=3	2.29E+05	C	0.06897971
P46063	U1 small nuclear ribonucleoprotein A OS=Homo sapiens GN=SNRPA PE=1 SV=3	2.28E+05	N	0.889650291
P31689	Heterogeneous nuclear ribonucleoprotein A/B OS=Homo sapiens GN=HNRNPAB PE=1 SV=2	2.12E+05	N	0.939315251
Q92945	Heterogeneous nuclear ribonucleoprotein H2 OS=Homo sapiens GN=HNRNPH2 PE=1 SV=1	2.10E+05	N	0.819071413
O15231	U6 snRNA-associated Sm-like protein LSm6 OS=Homo sapiens GN=LSM6 PE=1 SV=1	2.07E+05	N	0.727860602
P61019	Zinc finger protein 185 OS=Homo sapiens GN=ZNF185 PE=1 SV=2	2.06E+05	N/C	0.50*
Q96K17	Heterogeneous nuclear ribonucleoprotein R OS=Homo sapiens GN=HNRNPR PE=1 SV=1	2.05E+05	N	0.934712831
Q99622	Putative RNA-binding protein 3 OS=Homo sapiens GN=RBM3 PE=1 SV=1	2.04E+05	N/C	0.50*
P04843	U6 snRNA-associated Sm-like protein LSm2 OS=Homo sapiens GN=LSM2 PE=1 SV=1	1.90E+05	N	0.756640716
Q13185	Heterogeneous nuclear ribonucleoprotein Q OS=Homo sapiens GN=SYNCRIP PE=1 SV=2	1.82E+05	N	0.833363577
Q13148	Probable ATP-dependent RNA helicase DDX17 OS=Homo sapiens GN=DDX17 PE=1 SV=1	1.81E+05	N	0.886419022
Q15907	Nucleolar RNA helicase 2 OS=Homo sapiens GN=DDX21 PE=1 SV=5	1.71E+05	N	0.829116847
P53396	H/ACA ribonucleoprotein complex subunit 2 OS=Homo sapiens GN=NHP2 PE=1 SV=1	1.66E+05	N	0.953300309
Q9Y5B9	Pre-mRNA-processing factor 19 OS=Homo sapiens GN=PRPF19 PE=1 SV=1	1.66E+05	N	0.908422812
Q13155	Splicing factor 3 subunit 1 OS=Homo sapiens GN=SF3A1 PE=1 SV=1	1.62E+05	N	0.958534649
P35637	U6 snRNA-associated Sm-like protein LSm8 OS=Homo sapiens GN=LSM8 PE=1 SV=3	1.61E+05	N	0.932400133** (NAA38 xenopus)
P07951	RNA-binding protein FUS OS=Homo sapiens GN=FUS PE=1 SV=1	1.60E+05	N	0.90*
P33993	116 kDa U5 small nuclear ribonucleoprotein component OS=Homo sapiens GN=EFTUD2 PE=1 SV=1	1.55E+05	N/C	0.566617869
P07205	H/ACA ribonucleoprotein complex subunit 3 OS=Homo sapiens GN=NOP10 PE=1 SV=1	1.47E+05	N	0.87782334
P09874	ATP-dependent RNA helicase DDX18 OS=Homo sapiens GN=DDX18 PE=1 SV=2	1.42E+05	N	0.939811444
O95816	Probable ATP-dependent RNA helicase DDX47 OS=Homo sapiens GN=DDX47 PE=1 SV=1	1.40E+05	N	0.929613598
Q8NBS9	Heterogeneous nuclear ribonucleoprotein U-like protein 1 OS=Homo sapiens GN=HNRNPUL1 PE=1 SV=2	1.37E+05	N	0.805769234
Q09666	RNA-binding protein 39 OS=Homo sapiens GN=RBM39 PE=1 SV=2	1.36E+05	N	0.947663056

P62979	RNA-binding protein 14 OS=Homo sapiens GN=RBM14 PE=1 SV=2	1.35E+05	N	0.876663776
Q9Y277	Small nuclear ribonucleoprotein F OS=Homo sapiens GN=SNRPF PE=1 SV=1	1.33E+05	N/C	0.507436748
P37837	Splicing factor 1 OS=Homo sapiens GN=SF1 PE=1 SV=4	1.33E+05	N	0.940122063
P33992	U5 small nuclear ribonucleoprotein 40 kDa protein OS=Homo sapiens GN=SNRNP40 PE=1 SV=1	1.29E+05	N	0.925445362
O00410	Splicing factor 3B subunit 3 OS=Homo sapiens GN=SF3B3 PE=1 SV=4	1.27E+05	N	0.873294752
Q16643	Double-stranded RNA-binding protein Staufien homolog 1 OS=Homo sapiens GN=STAU1 PE=1 SV=2	1.27E+05	C	0.047834417
O00764	U2 small nuclear ribonucleoprotein A' OS=Homo sapiens GN=SNRPA1 PE=1 SV=2	1.25E+05	N	0.903400035
Q99417	Signal recognition particle 9 kDa protein OS=Homo sapiens GN=SRP9 PE=1 SV=2	1.22E+05	N/C	0.519075265
Q9BVK6	Splicing factor 3B subunit 5 OS=Homo sapiens GN=SF3B5 PE=1 SV=1	1.21E+05	N	0.94142272
O60884	ATP-dependent RNA helicase DDX39 OS=Homo sapiens GN=DDX39 PE=1 SV=2	1.20E+05	N/C	0.50*
Q9UNS2	KH domain-containing, RNA-binding, signal transduction-associated protein 1 OS=Homo sapiens GN=KHDRBS1 PE=1 SV=1	1.18E+05	N	0.953165406
P55786	U5 small nuclear ribonucleoprotein 200 kDa helicase OS=Homo sapiens GN=SNRNP200 PE=1 SV=2	1.14E+05	N	0.627630737
Q04637	Splicing factor 3A subunit 3 OS=Homo sapiens GN=SF3A3 PE=1 SV=1	1.03E+05	N	0.909791131
O43583	Caprin-1 OS=Homo sapiens GN=CAPRIN1 PE=1 SV=2	1.01E+05	C	0.047960769
Q9H9B4	Zinc finger protein 326 OS=Homo sapiens GN=ZNF326 PE=1 SV=2	9.89E+04	N	0.912747797
Q92688	Eukaryotic translation initiation factor 4B OS=Homo sapiens GN=EIF4B PE=1 SV=2	9.51E+04	C	0.058008158
Q07960	H/ACA ribonucleoprotein complex subunit 4 OS=Homo sapiens GN=DKC1 PE=1 SV=3	9.35E+04	N	0.941453753
P49591	U6 snRNA-associated Sm-like protein LSm3 OS=Homo sapiens GN=LSM3 PE=1 SV=2	9.00E+04	N	0.749312101
O00154	RNA-binding protein PNO1 OS=Homo sapiens GN=PNO1 PE=1 SV=1	8.71E+04	N	0.702399262
Q9Y4L1	Vigilin OS=Homo sapiens GN=HDLBP PE=1 SV=2	8.26E+04	C	0.070605354
O75223	Splicing factor, arginine/serine-rich 7 OS=Homo sapiens GN=SFRS7 PE=1 SV=1	7.77E+04	N	0.919065476
Q7L5N1	Insulin-like growth factor 2 mRNA-binding protein 2 OS=Homo sapiens GN=IGF2BP2 PE=1 SV=2	7.66E+04	C	0.10*
O60739	Splicing factor 3B subunit 1 OS=Homo sapiens GN=SF3B1 PE=1 SV=3	7.53E+04	N	0.941254351
Q6P2Q9	ATP-dependent RNA helicase DDX19A OS=Homo sapiens GN=DDX19A PE=1 SV=1	7.37E+04	N	0.90*
P36543	Nucleoplasmin-3 OS=Homo sapiens GN=NPM3 PE=1 SV=3	7.35E+04	N	0.958507289
Q96DG6	Pre-mRNA-processing-splicing factor 8 OS=Homo sapiens GN=PRPF8 PE=1 SV=2	7.34E+04	N/C	0.533325208
Q9BRT6	Pre-mRNA-splicing factor SPF27 OS=Homo sapiens GN=BCAS2 PE=1 SV=1	7.31E+04	N	0.886477083
Q9UBX3	Fragile X mental retardation syndrome-related protein 1 OS=Homo sapiens GN=FXR1 PE=1 SV=3	6.83E+04	C	0.076145031
Q92597	Splicing factor 3B subunit 2 OS=Homo sapiens GN=SF3B2 PE=1 SV=1	6.75E+04	N	0.950093854
Q99661	Protein LSM14 homolog B OS=Homo sapiens GN=LSM14B PE=1 SV=1	6.35E+04	C	0.041273789
P46926	Protein quaking OS=Homo sapiens GN=QKI PE=1 SV=1	5.48E+04	C	0.10*
Q9UHB9	Heterogeneous nuclear ribonucleoprotein L-like OS=Homo sapiens GN=HNRPLL PE=1 SV=1	5.39E+04	N	0.765734746
Q9Y4Z0	Splicing factor U2AF 35 kDa subunit OS=Homo sapiens GN=U2AF1 PE=1 SV=3	5.21E+04	N	0.958807281
Q96AY3	U1 small nuclear ribonucleoprotein 70 kDa OS=Homo sapiens GN=SNRNP70 PE=1 SV=2	5.21E+04	N	0.754910219
Q9Y2W2	U6 snRNA-associated Sm-like protein LSm4 OS=Homo sapiens GN=LSM4 PE=1 SV=1	5.19E+04	N	0.782474829
P50579	Heterogeneous nuclear ribonucleoprotein U-like protein 2 OS=Homo sapiens GN=HNRNPUL2 PE=1 SV=1	4.84E+04	N	0.890405066
O43491	Zinc finger RNA-binding protein OS=Homo sapiens GN=ZFR PE=1 SV=2	4.81E+04	N	0.969909775
Q9BV57	Ribonucleoprotein PTB-binding 1 OS=Homo sapiens GN=RAVER1 PE=1 SV=1	4.80E+04	N	0.90*
P21964	Putative RNA-binding protein Luc7-like 2 OS=Homo sapiens GN=LUC7L2 PE=1 SV=2	4.54E+04	N	0.941553621

*We were unable to find the corresponding Gene in Wuhr et al., (2015). Therefore, we assigned values of 0.1, 0.5, or 0.9 if the protein is known to be enriched in the cytoplasm, neither enriched nor depleted in cytoplasm and nucleus, or enriched in the nucleus respectively.

** We found a gene that is called differently in Wuhr et al., (2015) that should be a homolog to the human gene.

*** N = Predominantly Nucleus (>0.60). C = Predominantly Cytoplasm (<0.40). N/C = In both compartments (0.4-0.6)