

Supplemental Table S1. Full List of WDR Proteins Accessed

| Gene name | Full name of the protein | Alternative name of the gene | Gene ID from NCBI RefSeq |
|-----------|--|---|--------------------------|
| A6NM71 | PRA1 family protein | | 10567 |
| A6P4T4 | Tyrosine-protein kinase receptor | | |
| A6P4V4 | Tyrosine-protein kinase receptor | | |
| A8MWR8 | Highly similar to SEC13-related protein | | 6396 |
| AAAS | Aladin WD repeat nucleoporin | AAA, AAASb, ADRACALA, ADRA-CALIN, ALADIN, GL003 | 8086 |
| AAMP | Angio associated migratory cell protein | | 14 |
| AHI1 | Abelson helper integration site 1 | AHI-1, JBTS3, ORF1, dJ71N10.1 | 54806 |
| AMBRA1 | Autophagy and beclin 1 regulator 1 | DCAF3, WDR94 | 55626 |
| APAF1 | Apoptotic peptidase activating factor 1 | APAF-1, CED4 | 317 |
| ARPC1A | Actin related protein 2/3 complex subunit 1A | Arc40, HEL-68, HEL-S-307, SOP2Hs, SOP2L | 10552 |
| ARPC1B | Actin related protein 2/3 complex subunit 1B | ARC41, PLTEID, p40-ARC, p41-ARC | 10095 |
| ATG16L1 | Autophagy related 16 like 1 | APG16L, ATG16A, ATG16L, IBD10, WDR30 | 55054 |
| ATG16L2 | Autophagy related 16 like 2 | ATG16B, WDR80 | 89849 |
| B3KMW5 | Highly similar to WD repeat protein 3 | | |
| B3KP68 | Highly similar to homo sapiens selective LIM binding factor | | |
| B3KP80 | Highly similar to BTB/POZ domain-containing protein KCTD3 | | |
| B3KRR8 | Highly similar to WD repeat protein 6 | | 11180 |
| B3KUA2 | Highly similar to transducin-like enhancer protein 3 | | 7090 |
| B3KV16 | Highly similar to lipopolysaccharide-responsive and beige-like anchor protein | | |
| B3KXA3 | Highly similar to homo sapiens echinoderm microtubule associated protein like 1 (EML1) | | |
| B3KXN4 | Highly similar to WD repeat protein 1 | | |
| B4DDD4 | WD repeat-containing protein 27 | WDR27 | 253769 |
| B4DDU7 | Highly similar to aladin | | |
| B4DE62 | Highly similar to transducin-like enhancer protein 2 | | |
| B4DEF9 | Highly similar to transducin-like enhancer protein 1 | | 7088 |
| B4DGB7 | Highly similar to homo sapiens WD repeat domain 10 (WDR10) | | |
| B4DGE3 | Highly similar to homo sapiens SEC31-like 2 (SEC31L2), transcript variant 1 | | |
| B4DK45 | Highly similar to WD repeat protein 6 | | |
| B4DL97 | Highly similar to homo sapiens echinoderm microtubule associated protein like 3 | | 256364 |
| B4DMH3 | Coronin | | |
| B4DN30 | Highly similar to WD repeat protein 21A | | 26094 |
| B4DNL1 | Highly similar to periodic tryptophan protein 1 homolog | | |
| B4DPZ3 | Highly similar to cytoplasmic dynein 1 intermediate chain 2 | | 1781 |
| B4DT22 | Highly similar to peptidylprolyl isomerase domain and WD repeat-containing protein 1 | | 23398 |
| B4DTI1 | Moderately similar to glutamate-rich WD repeat-containing protein 1 | | |
| B4DVD2 | Highly similar to guanine nucleotide-binding protein subunit beta 2-like 1 | | |

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Supplemental Table S1. Continued

| Gene name | Full name of the protein | Alternative name of the gene | Gene ID from NCBI RefSeq |
|-----------|---|--|--------------------------|
| B4DVM5 | Highly similar to WD repeat protein 24 | | |
| B4DVQ7 | Highly similar to WD repeat protein 13 | | |
| B4DVX0 | Highly similar to neurobeachin-like 1 | | |
| B4DWC6 | Highly similar to guanine nucleotide-binding protein subunitbeta 2-like 1 | | |
| B4DX09 | Moderately similar to bromodomain and WD repeat domain-containing protein 2 | | |
| B4DX93 | Highly similar to cytoplasmic dynein 1 intermediate chain 2 | | |
| B4DYK8 | B4DYK8 | | |
| B4DZX5 | Moderately similar to homo sapiens WD repeat domain 1 (WDR1), transcript variant 2 | | |
| B4E018 | Highly similar to WD repeat protein 74 | | |
| B4E068 | Moderately similar to WD repeat protein 79 | | |
| B4E074 | Highly similar to Notchless homolog 1 | | |
| B4E0E6 | Highly similar to homo sapiens denticleless homolog (DTL) | | 51514 |
| B4E1H5 | Highly similar to cell division cycle protein 20 homolog | | |
| B4E286 | Highly similar to WD repeat protein 19 | | |
| B4E2R3 | Highly similar to homo sapiens G protein beta subunit-like (GBL) | | |
| B4E303 | Highly similar to Notchless homolog 1 | | |
| B4E345 | Weakly similar to protein groucho | | |
| B4E383 | Highly similar to DNA excision repair protein ERCC-8 | | |
| B4E3M9 | Highly similar to breast carcinoma amplified sequence 3 | | |
| B6EXY3 | Tyrosine-protein kinase receptor | | |
| B7Z2F5 | Highly similar to echinoderm microtubule-associated protein-like 2 | | |
| B7Z2P6 | Highly similar to homo sapiens WD repeat domain 42A (WDR42A) | | |
| B7Z475 | Highly similar to F-box-like/WD repeat protein TBL1XR1 | | |
| B7Z6H0 | Highly similar to sterol regulatory element-binding protein cleavage-activating protein | | 22937 |
| B7Z872 | Highly similar to echinoderm microtubule-associated protein-like 2 | | |
| B7Z918 | Highly similar to echinoderm microtubule-associated protein-like 2 | | |
| BCAS3 | BCAS3 microtubule associated cell migration factor | MAAB, GAOB1 | 54828 |
| BOP1 | BOP1 ribosomal biogenesis factor | | 23246 |
| BRWD1 | Bromodomain and WD repeat domain containing 1 | C21orf107, DCAF19, N143, WDR9, WRD9 | 54014 |
| BRWD3 | Bromodomain and WD repeat domain containing 3 | BRODL, MRX93 | 254065 |
| BTRC | Beta-transducin repeat containing E3 ubiquitin protein ligase | BETA-TRCP, FBW1A, FBXW1, FBXW1A, FWD1, bTrCP, bTrCP1, betaTrCP | 8945 |
| BUB3 | BUB3 mitotic checkpoint protein | BUB3L, hBUB3 | 9184 |
| C2ORF44 | WD repeat and coiled coil containing | WDPC, MMAP, PP384 | 80304 |
| CDC20 | Cell division cycle 20 | CDC20A, bA276H19.3, p55CDC | 991 |
| CDC20B | Cell division cycle 20B | G6VTS76519 | 166979 |
| CDC40 | Cell division cycle 40 | EHB3, PRP17, PRPF17 | 51362 |
| CDRT1 | CMT1A duplicated region transcript 1 | C17ORF1, C17ORF1, C17ORF1A, FBXW10B, FBXW10P1, HREP, SM25H2 | 374286 |
| CFAP43 | Cilia and flagella associated protein 43 | C10orf79, HYDNP1, SPGF19, WDR96, bA373N18.2 | 80217 |

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Supplemental Table S1. Continued

| Gene name | Full name of the protein | Alternative name of the gene | Gene ID from NCBI RefSeq |
|---------------|---|---|--------------------------|
| CFAP44 | Cilia and flagella associated protein 44 | SPGF20, WDR52 | 55779 |
| CFAP52 | Cilia and flagella associated protein 52 | WDR16, WDRPUH | 146845 |
| CFAP57 | Cilia and flagella associated protein 57 | VWS2, WDR65 | 149465 |
| CHAF1B | Chromatin assembly factor 1 subunit B | CAF-1, CAF-IP60, CAF1, CAF1A, CAF1P60, MPHOSPH7, MPP7 | 8208 |
| CIAO1 | Cytosolic iron-sulfur assembly component 1 | CIA1, WDR39 | 9391 |
| CIRH1A | UTP4 small subunit processome component | UTP4, CIRHIN, NAIC, TEX292 | 84916 |
| COPA | COPI coat complex subunit alpha | AILJK, HEP-COP, alpha-COP | 1314 |
| COPB2 | COPI coat complex subunit beta 2 | MCPH19, beta ² -COP | 9276 |
| CORO1A | Coronin 1A | CLABP, CLIPINA, HCORO1, IMD8, TACO, p57 | 11151 |
| CORO1B | Coronin 1B | CORONIN-2 | 57175 |
| CORO1C | Coronin 1C | HCRNN4 | 23603 |
| CORO2A | Coronin 2A | CLIPINB, IR10, WDR2 | 7464 |
| CORO2B | Coronin 2B | CLIPINC | 10391 |
| CORO6 | Coronin 6 | | 84940 |
| CORO7 | Coronin 7 | 0610011B16Rik, CRN7, POD1 | 79585 |
| CSTF1 | Cleavage stimulation factor subunit 1 | CstF-50, CstFp50 | 1477 |
| DAW1 | Dynein assembly factor with WD repeats 1 | ODA16, WDR69 | 164781 |
| DCAF10 | DDB1 and CUL4 associated factor 10 | WDR32 | 79269 |
| DCAF11 | DDB1 and CUL4 associated factor 11 | GL014, PRO2389, WDR23 | 80344 |
| DCAF12 | DDB1 and CUL4 associated factor 12 | CT102, TCC52, WDR40A, KIAA1892 | 25853 |
| DCAF12L1 | DDB1 and CUL4 associated factor 12 like 1 | KIAA1892L, WDR40B | 139170 |
| DCAF12L2 | DDB1 and CUL4 associated factor 12 like 2 | WDR40C | 340578 |
| DCAF13 | DDB1 and CUL4 associated factor 13 | GM83, HSPC064, Sof1, WDSOF1 | 25879 |
| DCAF4 | DDB1 and CUL4 associated factor 4 | WDR21, WDR21A | 26094 |
| DCAF4L1 | DDB1 and CUL4 associated factor 4 like 1 | WDR21B | 285429 |
| DCAF4L2 | DDB1 and CUL4 associated factor 4 like 2 | WDR21C | 138009 |
| DCAF5 | DDB1 and CUL4 associated factor 5 | BCRG2, BCRP2, D14S1461E, WDR22 | 8816 |
| DCAF6 | DDB1 and CUL4 associated factor 6 | 1200006M05Rik, ARCAP, IQWD1, MSTP055, NRIP, PC326 | 55827 |
| DCAF7 | DDB1 and CUL4 associated factor 7 | AN11, HAN11, SWAN-1, WDR68 | 10238 |
| DCAF8 | DDB1 and CUL4 associated factor 8 | GAN2, H326, WDR42A | 50717 |
| DCAF8L1 | DDB1 and CUL4 associated factor 8 like 1 | WDR42B | 139425 |
| DCAF8L2 | DDB1 and CUL4 associated factor 8 like 2 | WDR42C | 347442 |
| DDB2 | Damage specific DNA binding protein 2 | DDBB, UV-DDB2, XPE | 1643 |
| DENND3 | DENN domain containing 3 | | 22898 |
| DKFZ-P434D199 | U5 small nuclear ribonucleoprotein 40 kDa protein | SNRNP40 | |
| DKFZ-P451A177 | Uncharacterized protein DKFZp451A177 | DKFZp451A177 | |
| DKFZ-P779C159 | Uncharacterized protein DKFZp779C159 | DKFZp779C159 | |
| DMWD | DM1 locus, WD repeat containing | D19S593E, DMR-N9, DMRN9, gene59 | 1762 |

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Supplemental Table S1. Continued

| Gene name | Full name of the protein | Alternative name of the gene | Gene ID from NCBI RefSeq |
|-----------|--|---|--------------------------|
| DMXL1 | Dmx like 1 | | 1657 |
| DMXL2 | Dmx like 2 | RC3, PEPNS, DFNA71, EIEE81 | 23312 |
| DNAI1 | Dynein axonemal intermediate chain 1 | CILD1, DIC1, ICS1, PCD | 27019 |
| DNAI2 | Dynein axonemal intermediate chain 2 | CILD9, DIC2 | 64446 |
| DPH7 | Diphthamide biosynthesis 7 | C9orf112, RRT2, WDR85 | 92715 |
| DTL | Denticleless E3 ubiquitin protein ligase homolog | CDT2, RAMP, DCAF2, L2DTL | 51514 |
| DYNC111 | Dynein cytoplasmic 1 intermediate chain 1 | DNC11, DNCIC1 | 1780 |
| DYNC112 | Dynein cytoplasmic 1 intermediate chain 2 | DIC74, DNCI2, IC2, NEDMIBA | 1781 |
| EDC4 | Enhancer of mRNA decapping 4 | GE1, Ge-1, RCD8, HEDL5, HEDLS, RCD-8 | 23644 |
| EED | Embryonic ectoderm development | EED, COGIS, WAIT1 | 8726 |
| EIF2A | Eukaryotic translation initiation factor 2A | CDA02, EIF-2A, MST089, MSTP004, MSTP089 | 83939 |
| EIF3B | Eukaryotic translation initiation factor 3 subunit B | EIF3-ETA, EIF3-P110, EIF3-P116, EIF3S9, PRT1 | 8662 |
| EIF3I | Eukaryotic translation initiation factor 3 subunit I | EIF3S2, PRO2242, TRIP-1, TRIP1, eIF3-beta, eIF3-p36 | 8668 |
| ELP2 | Elongator acetyltransferase complex subunit 2 | SttP, MRT58, SHINC-2, STATIP1 | 55250 |
| EML1 | EMAP like 1 | BH, ELP79, EMAP, EMAP-1, EMAPL | 2009 |
| EML2 | EMAP like 2 | ELP70, EMAP-2, EMAP2 | 24139 |
| EML3 | EMAP like 3 | ELP95, EMAP3, EMAP95 | 256364 |
| EML4 | EMAP like 4 | C2orf2, ELP120, EMAP-4, EMAPL4, ROPP120 | 27436 |
| EML4-ALK | Tyrosine-protein kinase receptor | EML4-ALK | |
| EML5 | EMAP like 5 | EMAP-2, EMAP-5, FAP16 | 161436 |
| EML6 | EMAP like 6 | | 400954 |
| ERCC8 | ERCC excision repair 8, CSA ubiquitin ligase complex subunit | CSA, CKN1, UVSS2 | 1161 |
| FBXW10 | F-box and WD repeat domain containing 10 | Fbw10, HREP, SM25H2, SM2SH2 | 10517 |
| FBXW11 | F-box and WD repeat domain containing 11 | BTRC2, BTRCP2, FBW1B, FBXW1B, Fbw11, Hos | 23291 |
| FBXW12 | F-box and WD repeat domain containing 12 | FBW12, FBXO12, FBXO35 | 285231 |
| FBXW2 | F-box and WD repeat domain containing 2 | Md6, FBW2, Fwd2 | 26190 |
| FBXW4 | F-box and WD repeat domain containing 4 | DAC, FBW4, FBWD4, SHFM3, SHSF3 | 6468 |
| FBXW5 | F-box and WD repeat domain containing 5 | Fbw5 | 54461 |
| FBXW7 | F-box and WD repeat domain containing 7 | AGO, CDC4, FBW6, FBW7, FBX30, FBXO30, FBXW6, SEL-10, SEL10, hAgo, hCdc4 | 55294 |
| FBXW8 | F-box and WD repeat domain containing 8 | FBW6, FBW8, FBX29, FBXO29, FBXW6 | 26259 |
| FBXW9 | F-box and WD repeat domain containing 9 | Fbw9, MEC-15 | 84261 |
| FLJ00012 | FLJ00012 protein | | 89849 |
| FLJ00025 | FLJ00025 protein | FLJ00025 | |
| FZR1 | Fizzy and cell division cycle 20 related 1 | CDC20C, CDH1, FZR, FZR2, HCDH, HCDH1 | 51343 |
| GEMIN5 | Gem nuclear organelle associated protein 5 | GEMIN-5 | 25929 |
| GNB1 | G protein subunit beta 1 | MRD42 | 2782 |

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Supplemental Table S1. Continued

| Gene name | Full name of the protein | Alternative name of the gene | Gene ID from NCBI RefSeq |
|-----------|--|--|--------------------------|
| GNB1L | G protein subunit beta 1 like | DGCRK3, FKSG1, GY2, WDR14, WDVCF | 54584 |
| GNB2 | G protein subunit beta 2 | | 2783 |
| GNB2L1 | Receptor for activated C kinase 1 | GNB2L1, Gnb2-rs1, H12.3, HLC-7, PIG21 | 10399 |
| GNB3 | G protein subunit beta 3 | CSNB1H | 2784 |
| GNB4 | G protein subunit beta 4 | CMTD1F | 59345 |
| GNB5 | G protein subunit beta 5 | GB5, IDDCA, LADCI, gbeta5 | 10681 |
| GRWD1 | Glutamate rich WD repeat containing 1 | CDW4, GRWD, RRB1, WDR28 | 83743 |
| GTF3C2 | General transcription factor IIIC subunit 2 | TFIIIC-BETA, TFIIC110 | 2976 |
| H0YL77 | Uncharacterized protein | | |
| H3BRJ5 | Uncharacterized protein | | |
| HERC1 | HECT and RLD domain containing E3 ubiquitin protein ligase family member 1 | p532, p619, MDFPMR | 8925 |
| HIRA | Histone cell cycle regulator | DGCR1, TUP1, TUPLE1 | 7290 |
| HPS5 | HPS5 biogenesis of lysosomal organelles complex 2 subunit 2 | AIBP63, BLOC2S2 | 11234 |
| IFT122 | Intraflagellar transport 122 | CED, CED1, FAP80, SPG, WDR10, WDR10p, WDR140 | 55764 |
| IFT140 | Intraflagellar transport 140 | MZSDS, RP80, SRTD9, WDTC2, c305C8.4, c380F5.1, gs114 | 9742 |
| IFT172 | Intraflagellar transport 172 | BBS20, NPHP17, RP71, SLB, SRTD10, osm-1, wim | 26160 |
| IFT80 | Intraflagellar transport 80 | ATD2, FAP167, SRTD2, WDR56 | 57560 |
| KATNB1 | Katanin regulatory subunit B1 | KAT, LIS6 | 10300 |
| KCTD3 | Potassium channel tetramerization domain containing 3 | NY-REN-45 | 51133 |
| KIF21A | Kinesin family member 21A | CFEOM1, FEOM1, FEOM3A | 55605 |
| KIF21B | Kinesin family member 21B | | 23046 |
| LLGL1 | LLGL scribble cell polarity complex component 1 | DLG4, HUGL, LLGL, Lgl1, Mgl1, HUGL1, HUGL-1 | 3996 |
| LLGL2 | LLGL scribble cell polarity complex component 2 | HGL, Hugl-2, LGL2 | 3993 |
| LRBA | LPS responsive beige-like anchor protein | BGL, CDC4L, CVID8, LAB300, LBA | 987 |
| LRRK2 | Leucine rich repeat kinase 2 | PARK8, RIPK7, ROCO2, AURA17, DARDARIN | 120892 |
| LRWD1 | Leucine rich repeats and WD repeat domain containing 1 | CENP-33, ORCA | 222229 |
| LYST | Lysosomal trafficking regulator | CHS, CHS1 | 1130 |
| MAPKBP1 | Mitogen-activated protein kinase binding protein 1 | JNKBP-1, JNKBP1, NPHP20 | 23005 |
| MED16 | Mediator complex subunit 16 | DRIP92, THRAP5, TRAP95 | 10025 |
| MIOS | Meiosis regulator for oocyte development | MIO, Sea4, Yulink | 54468 |
| MLST8 | MTOR associated protein, LST8 homolog | GBL, GbetaL, LST8, POP3, WAT1 | 64223 |
| NBAS | NBAS subunit of NRZ tethering complex | ILFS2, NAG, SOPH | 51594 |
| NBEA | Neurobeachin | BCL8B, LYST2 | 26960 |
| NBEAL1 | Neurobeachin like 1 | A530083I02Rik, ALS2CR16, ALS2CR17 | 65065 |
| NBEAL2 | Neurobeachin like 2 | BDPLT4, GPS | 23218 |
| NEDD1 | NEDD1 gamma-tubulin ring complex targeting factor | GCP-WD, TUBGCP7 | 121441 |
| NLE1 | Notchless homolog 1 | NLE | 54475 |

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Supplemental Table S1. Continued

| Gene name | Full name of the protein | Alternative name of the gene | Gene ID from NCBI RefSeq |
|-----------|--|--|--------------------------|
| NOL10 | Nucleolar protein 10 | | 79954 |
| NSMAF | Neutral sphingomyelinase activation associated factor | FAN, GRAMD5 | 8439 |
| NUP214 | Nucleoporin 214 | CAN, CAIN, IIAE9 | 8021 |
| NUP37 | Nucleoporin 37 | MCPH24, p37 | 79023 |
| NUP43 | Nucleoporin 43 | bA350J20.1, p42 | 348995 |
| NWD1 | NACHT and WD repeat domain containing 1 | | 284434 |
| NWD2 | NACHT and WD repeat domain containing 2 | KIAA1239 | 57495 |
| PAAF1 | Proteasomal ATPase associated factor 1 | PAAF, Rpn14, WDR71 | 80227 |
| PAFAH1B1 | Platelet activating factor acetylhydrolase 1b regulatory subunit 1 | LIS1, LIS2, MDCR, MDS, NudF, PAFAH | 5048 |
| PAK1IP1 | PAK1 interacting protein 1 | MAK11, PIP1, WDR84, bA421M1.5, hPIP1 | 55003 |
| PALB2 | Partner and localizer of BRCA2 | FANCN, PNCA3 | 79728 |
| PAN2 | Poly(A) specific ribonuclease subunit PAN2 | USP52 | 9924 |
| PEX7 | Peroxisomal biogenesis factor 7 | PBD9B, PTS2R, RCDP1, RD | 5191 |
| PHIP | Pleckstrin homology domain interacting protein | ndrp, BRWD2, DIDOD, WDR11, DCAF14, CHUJANS | 55023 |
| PIK3R4 | Phosphoinositide-3-kinase regulatory subunit 4 | VPS15, p150 | 30849 |
| PLAA | Phospholipase A2 activating protein | DOA1, NDMSBA, PLA2P, PLAP | 9373 |
| PLRG1 | Pleiotropic regulator 1 | Cwc1, PRL1, PRP46, PRPF46, TANGO4 | 5356 |
| POC1A | POC1 centriolar protein A | PIX2, SOFT, WDR51A | 25886 |
| POC1B | POC1 centriolar protein B | PIX1, CORD20, TUWD12, WDR51B | 282809 |
| PPP2R2A | Protein phosphatase 2 regulatory subunit B alpha | B55A, PR52A, PR55A, B55ALPHA, PR55alpha | 5520 |
| PPP2R2B | Protein phosphatase 2 regulatory subunit B beta | B55BETA, PP2AB55BETA, PP2AB-BETA, PP2APR55B, PP2APR55BETA, PR2AB55BETA, PR2ABBETA, PR2A-PR55BETA, PR52B, PR55-BETA, PR-55BETA, SCA12 | 5521 |
| PPP2R2C | Protein phosphatase 2 regulatory subunit B gamma | B55-GAMMA, B55gamma, IMYPNO, IMYPNO1, PR52, PR55G | 5522 |
| PPP2R2D | Protein phosphatase 2 regulatory subunit B delta | B55D, B55delta, MDS026 | 55844 |
| PPWD1 | Peptidylprolyl isomerase domain and WD repeat containing 1 | | 23398 |
| PREB | Prolactin regulatory element binding | SEC12 | 10113 |
| PRPF19 | Pre-mRNA processing factor 19 | PSO4, SNEV, PRP19, UBOX4, hPSO4, NMP200 | 27339 |
| PRPF4 | Pre-mRNA processing factor 4 | HPRP4, HPRP4P, PRP4, Prp4p, RP70, SNRNP60 | 9128 |
| PWP1 | PWP1 homolog, endonuclein | IEF-SSP-9502 | 11137 |
| PWP2 | PWP2 small subunit processome component | EHOC-17, PWP2H, UTP1 | 5822 |
| Q2VIM1 | ReCDC20 | ReCDC20 | |
| Q53F40 | F-box protein FBW7 isoform 2 variant | | |
| Q59EB2 | Uncharacterized protein | | 374286 |
| Q59EY9 | Transducin-like enhancer of split 3 splice variant 1 variant | | |
| Q59EZ2 | Telomerase protein component 1 variant | | |
| Q59F81 | Coronin | | |

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Supplemental Table S1. Continued

| Gene name | Full name of the protein | Alternative name of the gene | Gene ID from NCBI RefSeq |
|-----------|--|---|--------------------------|
| Q59FM2 | PWP2 periodic tryptophan protein homolog | | |
| Q59GC6 | Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B | | |
| Q59GN6 | WD repeat domain 23 isoform 1 variant | | 80344 |
| Q6ZP32 | Highly similar to Serine/threonine protein phosphatase 2A, 55 kDa regulatory subunit B | | |
| Q6ZS54 | FLJ45821 fis | | |
| Q6ZW40 | FLJ41631 fis | | |
| Q6ZW98 | Moderately similar to Human actin binding protein p57 | | |
| Q8N797 | FLJ25882 fis | | |
| Q8N7X6 | FLJ40237 fis | | |
| Q8TC14 | FLJ23854 fis | | |
| Q9H8N9 | Weakly similar to BETA-TRCP (BETA-TRANSDUCIN REPEAT-CONTAINING PROTEIN) | | 57590 |
| Q9NWG8 | FLJ10035 fis | | |
| Q9Y6S1 | R26610_1 | | |
| RAE1 | Ribonucleic acid export 1 | Gle2, MIG14, MRNP41, Mnrp41, dJ481F12.3, dJ800J21.1 | 8480 |
| RBBP4 | RB binding protein 4, chromatin remodeling factor | NURF55, RBAP48 | 5928 |
| RBBP5 | RB binding protein 5, histone lysine methyltransferase complex subunit | RBQ3, SWD1 | 5929 |
| RBBP7 | RB binding protein 7, chromatin remodeling factor | RbAp46 | 5931 |
| RFWD2 | COP1–COP1 E3 ubiquitin ligase | COP1, CFAP78, FAP78, RNF200 | 64326 |
| RFWD3 | Ring finger and WD repeat domain 3 | FANCW, RNF201 | 55159 |
| RIC1 | RIC1 homolog, RAB6A GEF complex partner 1 | CATIFA, CIP150, KIAA1432, bA207C16.1 | 57589 |
| RPTOR | Regulatory associated protein of MTOR complex 1 | KOG1, Mip1 | 57521 |
| RRP9 | Ribosomal RNA processing 9, U3 small nucleolar RNA binding protein | RNU3IP2, U3-55K | 9136 |
| SCAP | SREBF chaperone | | 22937 |
| SEC13 | SEC13 homolog, nuclear pore and COPII coat complex component | D3S1231E, SEC13L1, SEC13R, npp-20 | 6396 |
| SEC31A | SEC31 homolog A, COPII coat complex component | ABP125, ABP130, HSPC275, HSPC334, NEDSOSB, SEC31L1 | 22872 |
| SEC31B | SEC31 homolog B, COPII coat complex component | SEC31B-1, SEC31L2 | 25956 |
| SEH1L | SEH1 like nucleoporin | Seh1, SEH1A, SEH1B, SEC13L | 81929 |
| SHKBP1 | SH3KBP1 binding protein 1 | PP203, Sb1 | 92799 |
| SMU1 | SMU1 DNA replication regulator and spliceosomal factor | BWD, SMU-1, fSAP57 | 55234 |
| SNRNP40 | Small nuclear ribonucleoprotein U5 subunit 40 | 40K, HPRP8BP, PRP8BP, PRPF8BP, SPF38, WDR57 | 9410 |
| SPAG16 | Sperm associated antigen 16 | PF20, WDR29 | 79582 |
| STRAP | Serine/threonine kinase receptor associated protein | MAWD, PT-WD, UNRIP | 11171 |
| STRN | STRN | | 6801 |
| STRN3 | Striatin 3 | PPP2R6B, S/G2NA, SG2NA | 29966 |
| STRN4 | Striatin 4 | PPP2R6C, ZIN, zinedin | 29888 |
| STXBP5 | Syntaxin binding protein 5 | LGL3, LLGL3, Nbla04300 | 134957 |
| STXBP5L | Syntaxin binding protein 5 like | LLGL4 | 9515 |
| TAF5 | TATA-box binding protein associated factor 5 | TAF(II)100, TAF2D, TAFII-100, TAFIII100 | 6877 |

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Supplemental Table S1. Continued

| Gene name | Full name of the protein | Alternative name of the gene | Gene ID from NCBI RefSeq |
|-----------|--|--|--------------------------|
| TAF5L | TATA-box binding protein associated factor 5 like | PAF65B | 27097 |
| TBC1D31 | TBC1 domain family member 31 | Gm85, WDR67 | 93594 |
| TBL1X | Transducin beta like 1 X-linked | CHNG8, EBI, SMAP55, TBL1 | 6907 |
| TBL1XR1 | TBL1X receptor 1 | C21, DC42, IRA1, MRD41, TBLR1 | 79718 |
| TBL1Y | Transducin beta like 1 Y-linked | DFNY2, TBL1 | 90665 |
| TBL2 | Transducin beta like 2 | WBSCR13, WS-betaTRP | 26608 |
| TBL3 | Transducin beta like 3 | SAZD, UTP13 | 10607 |
| TECPR2 | Tectonin beta-propeller repeat containing 2 | KIAA0329, SPG49 | 9895 |
| TEP1 | Telomerase associated protein 1 | TLP1, TP1, TROVE1, VAULT2, p240 | 7011 |
| THOC3 | THO complex 3 | THO3, hTREX45 | 84321 |
| THOC6 | THO complex 6 | WDR58, fSAP35 | 79228 |
| TLE1 | TLE family member 1, transcriptional corepressor | ESG, ESG1, GRG1 | 7088 |
| TLE2 | TLE family member 2, transcriptional corepressor | ESG, ESG2, GRG2 | 7089 |
| TLE3 | TLE family member 3, transcriptional corepressor | ESG, ESG3, GRG3, HsT18976 | 7090 |
| TLE4 | TLE family member 4, transcriptional corepressor | BCE-1, BCE1, E(spl), E(spl), ESG, ESG4, GRG4, Grg-4 | 7091 |
| TLE6 | TLE family member 6, subcortical maternal complex member | GRG6, PREMBL | 79816 |
| TRAF7 | TNF receptor associated factor 7 | CAFDADD, RFWD1, RNF119 | 84231 |
| TSSC1 | EARP complex and GARP complex interacting protein 1 | EIPR1, EIPR-1 | 7260 |
| TULP4 | TUB like protein 4 | TUSP | 56995 |
| UTP15 | UTP15 small subunit processome component | NET21 | 84135 |
| UTP18 | UTP18 small subunit processome component | CGI-48, WDR50 | 51096 |
| UTP4 | UTP4 small subunit processome component | CIRH1A, CIRHIN, NAIC, TEX292 | 84916 |
| VPRBP | DCAF1–DDB1 and CUL4 associated factor 1 | DCAF1, RIP | 9730 |
| WDF3 | WD40-and FYVE-domain containing protein 3 | WDF3 | |
| WDFY1 | WD repeat and FYVE domain containing 1 | FENS-1, FENS1, WDF1, ZFYVE17 | 57590 |
| WDFY2 | WD repeat and FYVE domain containing 2 | PROF, WDF2, ZFYVE22 | 115825 |
| WDFY3 | WD repeat and FYVE domain containing 3 | ALFY, BCHS, MCPH18, ZFYVE25 | 23001 |
| WDFY4 | WDFY family member 4 | C10orf64 | 57705 |
| WDHD1 | WD repeat and HMG-box DNA binding protein 1 | AND-1, AND1, CHTF4, CTF4 | 11169 |
| WDPCP | WD repeat containing planar cell polarity effector | BBS15, C2orf86, CHDTHP, PLANES5, FRITZ, FRTZ | 51057 |
| WDR1 | WD repeat domain 1 | AIP1, HEL-S-52, NORI-1 | 9948 |
| WDR11 | WD repeat domain 11 | BRWD2, DR11, HH14, SRI1, WDR15 | 55717 |
| WDR12 | WD repeat domain 12 | YTM1 | 55759 |
| WDR13 | WD repeat domain 13 | MG21 | 64743 |
| WDR17 | WD repeat domain 17 | | 116966 |
| WDR18 | WD repeat domain 18 | Ipi3, R32184_1 | 57418 |
| WDR19 | WD repeat domain 19 | ATD5, CED4, DYF-2, FAP66, ORF26, Oseg6, PWDMP, SRTD5, IFT144, NPHP13 | 57728 |
| WDR20 | WD repeat domain 20 | DMR | 91833 |
| WDR24 | WD repeat domain 24 | C16orf21, JFP7 | 84219 |
| WDR25 | WD repeat domain 25 | C14orf67 | 79446 |

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Supplemental Table S1. Continued

| Gene name | Full name of the protein | Alternative name of the gene | Gene ID from NCBI RefSeq |
|-----------|---|--|--------------------------|
| WDR26 | WD repeat domain 26 | CDW2, GID7, MIP2, SKDEAS | 80232 |
| WDR27 | WD repeat domain 27 | | 253769 |
| WDR3 | WD repeat domain 3 | DIP2, UTP12 | 10885 |
| WDR31 | WD repeat domain 31 | | 114987 |
| WDR33 | WD repeat domain 33 | NET14, WDC146 | 55339 |
| WDR34 | Dynein 2 intermediate chain 2 | CFAP133, DIC5, FAP133, SRTD11, WDR34, bA216B9.3 | 89891 |
| WDR35 | WD repeat domain 35 | CED2, FAP118, IFT121, IFTA1, SRTD7 | 57539 |
| WDR36 | WD repeat domain 36 | GLC1G, TA-WDRP, TAWDRP, UTP21 | 134430 |
| WDR37 | WD repeat domain 37 | NOCGUS | 22884 |
| WDR38 | WD repeat domain 38 | | 401551 |
| WDR4 | WD repeat domain 4 | GAMOS6, MIGSB, TRM82, TRMT82, hWH | 10785 |
| WDR41 | WD repeat domain 41 | MSTP048 | 55255 |
| WDR43 | WD repeat domain 43 | NET12, UTP5 | 23160 |
| WDR44 | WD repeat domain 44 | RAB11BP, RPH11, SYM-4 | 54521 |
| WDR45 | WD repeat domain 45 | JM5, NBIA4, NBIA5, WDRX1, WIPI-4, WIPI4 | 11152 |
| WDR45B | WD repeat domain 45B | NEDSBAS, WDR45L, WIPI-3, WIPI3 | 56270 |
| WDR46 | WD repeat domain 46 | BING4, C6orf11, FP221, UTP7 | 9277 |
| WDR47 | WD repeat domain 47 | | 22911 |
| WDR48 | WD repeat domain 48 | P80, SPG60, UAF1 | 57599 |
| WDR49 | WD repeat domain 49 | | 151790 |
| WDR5 | WD repeat domain 5 | BIG-3, CFAP89, SWD3 | 11091 |
| WDR53 | WD repeat domain 53 | | 348793 |
| WDR54 | WD repeat domain 54 | | 84058 |
| WDR55 | WD repeat domain 55 | | 54853 |
| WDR59 | WD repeat domain 59 | CDW12, FP977, p90-120 | 79726 |
| WDR5B | WD repeat domain 5B | | 54554 |
| WDR6 | WD repeat domain 6 | | 11180 |
| WDR60 | Dynein 2 intermediate chain 1 | DYNC2I1, FAP163, DIC6, FAP163, SRPS6, SRTD8 | 55112 |
| WDR61 | WD repeat domain 61 | REC14, SKI8 | 80349 |
| WDR62 | WD repeat domain 62 | C19orf14, MCPH2 | 284403 |
| WDR63 | Dynein axonemal intermediate chain 3 | DNAI3, DIC3, NYD-SP29 | 126820 |
| WDR64 | WD repeat domain 64 | | 128025 |
| WDR66 | Cilia and flagella associated protein 251 | CFAP251, CaM-IP4, SPGF33 | 144406 |
| WDR7 | WD repeat domain 7 | TRAG | 23335 |
| WDR70 | WD repeat domain 70 | | 55100 |
| WDR72 | WD repeat domain 72 | AI2A3 | 256764 |
| WDR73 | WD repeat domain 73 | GAMOS, GAMOS1, HSPEC264 | 84942 |
| WDR74 | WD repeat domain 74 | Nsa1 | 54663 |
| WDR75 | WD repeat domain 75 | NET16, UTP17 | 84128 |
| WDR76 | WD repeat domain 76 | CDW14 | 79968 |

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Supplemental Table S1. Continued

| Gene name | Full name of the protein | Alternative name of the gene | Gene ID from NCBI RefSeq |
|-----------|--|---|--------------------------|
| WDR77 | WD repeat domain 77 | p44, MEP50, MEP-50, HKMT1069, Nbla10071, p44/Mep50 | 79084 |
| WDR78 | Dynein axonemal intermediate chain 4 | DNAI4, DIC4 | 79819 |
| WDR81 | WD repeat domain 81 | CAMRQ2, HYC3, PPP1R166, SORF-2 | 124997 |
| WDR82 | WD repeat domain 82 | MST107, MSTP107, PRO2730, PRO34047, SWD2, TMEM113, WDR82A | 80335 |
| WDR83 | WD repeat domain 83 | MORG1 | 84292 |
| WDR86 | WD repeat domain 86 | | 349136 |
| WDR87 | WD repeat domain 87 | NYD-SP11 | 83889 |
| WDR88 | WD repeat domain 88 | PQWD | 126248 |
| WDR89 | WD repeat domain 89 | C14orf150, MSTP050 | 112840 |
| WDR90 | WD repeat domain 90 | C16orf15, C16orf16, C16orf17, C16orf18, C16orf19, POC16 | 197335 |
| WDR91 | WD repeat domain 91 | HSPC049, SORF-1, SORF1 | 29062 |
| WDR92 | WD repeat domain 92 | | 116143 |
| WDR97 | WD repeat domain 97 | KIAA1875 | 340390 |
| WDSUB1 | WD repeat, sterile alpha motif and U-box domain containing 1 | UBOX6, WDSAM1 | 151525 |
| WDTC1 | WD and tetratricopeptide repeats 1 | ADP, DCAF9 | 23038 |
| WIPI1 | WD repeat domain, phosphoinositide interacting 1 | ATG18, ATG18A, WIPI49 | 55062 |
| WIPI2 | WD repeat domain, phosphoinositide interacting 2 | ATG18B, Atg21, CGI-50, IDDSSA, WIPI-2 | 26100 |
| WRAP53 | WD repeat containing antisense to TP53 | DKCB3, TCAB1, WDR79 | 55135 |
| WRAP73 | WD repeat containing, antisense to TP73 | WDR8 | 49856 |
| WSB1 | WD repeat and SOCS box containing 1 | SWIP1, WSB-1 | 26118 |
| WSB2 | WD repeat and SOCS box containing 2 | SBA2 | 55884 |
| ZNF106 | Zinc finger protein 106 | SH3BP3, ZFP106, ZNF474 | 64397 |

WDR, WD40-repeat; NCBI, National Center for Biotechnology Information.