Gene stable ID Gene stable ID version Transcript stable ID Transcript stable ID version Transcript count GENCODE basic annotation Transcript support level (TSL) Phenotype description Ensembl Protein Family ID(s) Ensembl Family Description

ENSG00000005206 ENSG00000005206.17 ENST00000585725 ENST00000585725.2 14 tsl3

ENSG00000005206 ENSG00000005206.17 ENST00000613503 ENST00000613503.5 14 GENCODE basic tsl1 (assigned to previous version 4) PTHR12174\_SF39 SIGNAL PEPTIDE PEPTIDASE 2B PRECURSOR SPP 2B SPPL2B EC\_3.4.23.-

ENSG00000005206 ENSG00000005206.17 ENST00000586332 ENST00000586332.5 14 tsl3

ENSG00000005206 ENSG00000005206.17 ENST00000621568 ENST00000621568.4 14 tsl5 PTHR12174\_SF39 SIGNAL PEPTIDE PEPTIDASE 2B PRECURSOR SPP 2B SPPL2B EC\_3.4.23.-

ENSG00000005206 ENSG00000005206.17 ENST00000614794 ENST00000614794.4 14 GENCODE basic tsl1 PTHR12174\_SF39 SIGNAL PEPTIDE PEPTIDASE 2B PRECURSOR SPP 2B SPPL2B EC\_3.4.23.-

ENSG00000005206 ENSG00000005206.17 ENST00000610743 ENST00000610743.4 14 GENCODE basic tsl1 PTHR12174\_SF39 SIGNAL PEPTIDE PEPTIDASE 2B PRECURSOR SPP 2B SPPL2B EC\_3.4.23.-

ENSG00000005206 ENSG00000005206.17 ENST00000618220 ENST00000618220.4 14 GENCODE basic tsl1 PTHR12174\_SF39 SIGNAL PEPTIDE PEPTIDASE 2B PRECURSOR SPP 2B SPPL2B EC\_3.4.23.-

ENSG00000005206 ENSG00000005206.17 ENST00000586111 ENST00000586111.3 14 tsl3

ENSG00000005206 ENSG00000005206.17 ENST00000587851 ENST00000587851.1 14 tsl3

ENSG00000005206 ENSG00000005206.17 ENST00000593243 ENST00000593243.5 14 tsl4

ENSG00000005206 ENSG00000005206.17 ENST00000622308 ENST00000622308.4 14 tsl1

ENSG00000005206 ENSG00000005206.17 ENST00000612623 ENST00000612623.1 14 tsl5 PTHR12174\_SF39 SIGNAL PEPTIDE PEPTIDASE 2B PRECURSOR SPP 2B SPPL2B EC\_3.4.23.-

ENSG00000005206 ENSG00000005206.17 ENST00000614784 ENST00000614784.1 14 tsl1

ENSG00000005206 ENSG00000005206.17 ENST00000589515 ENST00000589515.2 14 tsl5

ENSG00000006062 ENSG00000006062.17 ENST00000344686 ENST00000344686.8 5 GENCODE basic tsl1 (assigned to previous version 6) NIK deficiency PTHR24361\_SF226 MITOGEN ACTIVATED KINASE KINASE KINASE 14 EC\_2.7.11.25 NF KAPPA BETA INDUCING KINASE SERINE/THREONINE KINASE NIK

ENSG00000006062 ENSG00000006062.17 ENST00000376926 ENST00000376926.8 5 GENCODE basic tsl1 NIK deficiency PTHR24361\_SF226 MITOGEN ACTIVATED KINASE KINASE KINASE 14 EC\_2.7.11.25 NF KAPPA BETA INDUCING KINASE SERINE/THREONINE KINASE NIK

ENSG00000006062 ENSG00000006062.17 ENST00000592267 ENST00000592267.1 5 tsl2 NIK deficiency

ENSG00000006062 ENSG00000006062.17 ENST00000586644 ENST00000586644.2 5 tsl4 (assigned to previous version 1) NIK deficiency

ENSG00000006062 ENSG00000006062.17 ENST00000617331 ENST00000617331.2 5 tsl5 (assigned to previous version 1) NIK deficiency PTHR24361\_SF226 MITOGEN ACTIVATED KINASE KINASE KINASE 14 EC\_2.7.11.25 NF KAPPA BETA INDUCING KINASE SERINE/THREONINE KINASE NIK

ENSG00000012171 ENSG00000012171.19 ENST00000621029 ENST00000621029.4 15 tsl5 PTHR11036\_SF37 SEMAPHORIN 3B PRECURSOR SEMAPHORIN SEMA

ENSG00000012171 ENSG00000012171.19 ENST00000619119 ENST00000619119.4 15 tsl5

ENSG00000012171 ENSG00000012171.19 ENST00000616701 ENST00000616701.4 15 GENCODE basic tsl1 PTHR11036\_SF37 SEMAPHORIN 3B PRECURSOR SEMAPHORIN SEMA

ENSG00000012171 ENSG00000012171.19 ENST00000612509 ENST00000612509.4 15 tsl5

ENSG00000012171 ENSG00000012171.19 ENST00000433753 ENST00000433753.4 15 GENCODE basic tsl1 PTHR11036\_SF37 SEMAPHORIN 3B PRECURSOR SEMAPHORIN SEMA

ENSG00000012171 ENSG00000012171.19 ENST00000611067 ENST00000611067.4 15 GENCODE basic tsl1 PTHR11036\_SF37 SEMAPHORIN 3B PRECURSOR SEMAPHORIN SEMA

ENSG00000012171 ENSG00000012171.19 ENST00000441915 ENST00000441915.5 15 tsl1

ENSG00000012171 ENSG00000012171.19 ENST00000456560 ENST00000456560.6 15 GENCODE basic tsl1 PTHR11036\_SF37 SEMAPHORIN 3B PRECURSOR SEMAPHORIN SEMA

ENSG00000012171 ENSG00000012171.19 ENST00000439487 ENST00000439487.5 15 tsl3

ENSG00000012171 ENSG00000012171.19 ENST00000434030 ENST00000434030.1 15 tsl3

ENSG00000012171 ENSG00000012171.19 ENST00000456210 ENST00000456210.5 15 tsl2

ENSG00000012171 ENSG00000012171.19 ENST00000418576 ENST00000418576.3 15 GENCODE basic tsl2 PTHR11036\_SF37 SEMAPHORIN 3B PRECURSOR SEMAPHORIN SEMA

ENSG00000012171 ENSG00000012171.19 ENST00000419007 ENST00000419007.5 15 tsl2

ENSG00000012171 ENSG00000012171.19 ENST00000416295 ENST00000416295.1 15 tsl5

ENSG00000012171 ENSG00000012171.19 ENST00000618865 ENST00000618865.4 15 GENCODE basic tsl5 PTHR11036\_SF37 SEMAPHORIN 3B PRECURSOR SEMAPHORIN SEMA

ENSG00000088970 ENSG00000088970.16 ENST00000620891 ENST00000620891.4 15 GENCODE basic tsl1 Retinitis pigmentosa PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000088970 ENSG00000088970.16 ENST00000620891 ENST00000620891.4 15 GENCODE basic tsl1 RETINITIS PIGMENTOSA 69 PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000088970 ENSG00000088970.16 ENST00000612654 ENST00000612654.1 15 tsl3 Retinitis pigmentosa

ENSG00000088970 ENSG00000088970.16 ENST00000612654 ENST00000612654.1 15 tsl3 RETINITIS PIGMENTOSA 69

ENSG00000088970 ENSG00000088970.16 ENST00000622184 ENST00000622184.4 15 tsl3 Retinitis pigmentosa

ENSG00000088970 ENSG00000088970.16 ENST00000622184 ENST00000622184.4 15 tsl3 RETINITIS PIGMENTOSA 69

ENSG00000088970 ENSG00000088970.16 ENST00000611685 ENST00000611685.4 15 tsl2 Retinitis pigmentosa PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000088970 ENSG00000088970.16 ENST00000611685 ENST00000611685.4 15 tsl2 RETINITIS PIGMENTOSA 69 PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000088970 ENSG00000088970.16 ENST00000616848 ENST00000616848.4 15 GENCODE basic tsl2 Retinitis pigmentosa PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000088970 ENSG00000088970.16 ENST00000616848 ENST00000616848.4 15 GENCODE basic tsl2 RETINITIS PIGMENTOSA 69 PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000088970 ENSG00000088970.16 ENST00000619189 ENST00000619189.5 15 GENCODE basic tsl1 (assigned to previous version 4) Retinitis pigmentosa PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000088970 ENSG00000088970.16 ENST00000619189 ENST00000619189.5 15 GENCODE basic tsl1 (assigned to previous version 4) RETINITIS PIGMENTOSA 69 PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000088970 ENSG00000088970.16 ENST00000620553 ENST00000620553.2 15 tsl3 Retinitis pigmentosa

ENSG00000088970 ENSG00000088970.16 ENST00000620553 ENST00000620553.2 15 tsl3 RETINITIS PIGMENTOSA 69

ENSG00000088970 ENSG00000088970.16 ENST00000616679 ENST00000616679.4 15 tsl5 Retinitis pigmentosa PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000088970 ENSG00000088970.16 ENST00000616679 ENST00000616679.4 15 tsl5 RETINITIS PIGMENTOSA 69 PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000088970 ENSG00000088970.16 ENST00000619179 ENST00000619179.4 15 tsl5 Retinitis pigmentosa PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000088970 ENSG00000088970.16 ENST00000619179 ENST00000619179.4 15 tsl5 RETINITIS PIGMENTOSA 69 PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000088970 ENSG00000088970.16 ENST00000621366 ENST00000621366.1 15 tsl1 Retinitis pigmentosa PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000088970 ENSG00000088970.16 ENST00000621366 ENST00000621366.1 15 tsl1 RETINITIS PIGMENTOSA 69 PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000088970 ENSG00000088970.16 ENST00000451772 ENST00000451772.5 15 tsl3 Retinitis pigmentosa

ENSG00000088970 ENSG00000088970.16 ENST00000451772 ENST00000451772.5 15 tsl3 RETINITIS PIGMENTOSA 69

ENSG00000088970 ENSG00000088970.16 ENST00000419359 ENST00000419359.5 15 tsl2 Retinitis pigmentosa

ENSG00000088970 ENSG00000088970.16 ENST00000419359 ENST00000419359.5 15 tsl2 RETINITIS PIGMENTOSA 69

ENSG00000088970 ENSG00000088970.16 ENST00000441136 ENST00000441136.1 15 tsl3 Retinitis pigmentosa

ENSG00000088970 ENSG00000088970.16 ENST00000441136 ENST00000441136.1 15 tsl3 RETINITIS PIGMENTOSA 69

ENSG00000088970 ENSG00000088970.16 ENST00000423272 ENST00000423272.1 15 tsl3 Retinitis pigmentosa

ENSG00000088970 ENSG00000088970.16 ENST00000423272 ENST00000423272.1 15 tsl3 RETINITIS PIGMENTOSA 69

ENSG00000088970 ENSG00000088970.16 ENST00000619574 ENST00000619574.4 15 GENCODE basic tsl2 Retinitis pigmentosa PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000088970 ENSG00000088970.16 ENST00000619574 ENST00000619574.4 15 GENCODE basic tsl2 RETINITIS PIGMENTOSA 69 PTHR16299 CENTROSOMAL KIZUNA POLO KINASE 1 SUBSTRATE 1

ENSG00000099725 ENSG00000099725.14 ENST00000528056 ENST00000528056.5 4 tsl1

ENSG00000099725 ENSG00000099725.14 ENST00000533551 ENST00000533551.5 4 GENCODE basic tslNA PTHR24353\_SF28 CAMP DEPENDENT KINASE CATALYTIC SUBUNIT

ENSG00000099725 ENSG00000099725.14 ENST00000495163 ENST00000495163.1 4 tsl2

ENSG00000099725 ENSG00000099725.14 ENST00000472666 ENST00000472666.1 4 tsl3

ENSG00000101898 ENSG00000101898.6 ENST00000394552 ENST00000394552.3 1 GENCODE basic tslNA (assigned to previous version 2) PTHR22798 MALIGNANT T CELL AMPLIFIED SEQUENCE 1 MCT 1

ENSG00000102055 ENSG00000102055.6 ENST00000378131 ENST00000378131.3 1 GENCODE basic tslNA PTHR12398\_SF21 PHOSPHATASE INHIBITOR 2 FAMILY MEMBER C PHOSPHATASE 1 REGULATORY SUBUNIT 2 PSEUDOGENE 9 TYPE 1 PHOSPHATASE INHIBITOR 4 I 4

ENSG00000104691 ENSG00000104691.15 ENST00000620074 ENST00000620074.4 10 GENCODE basic tsl5 PTHR23322\_SF21 UBX DOMAIN CONTAINING 8 REPRODUCTION 8 REP 8 UBX DOMAIN CONTAINING 6

ENSG00000104691 ENSG00000104691.15 ENST00000522968 ENST00000522968.1 10 tsl3

ENSG00000104691 ENSG00000104691.15 ENST00000616306 ENST00000616306.1 10 tsl5

ENSG00000104691 ENSG00000104691.15 ENST00000265616 ENST00000265616.10 10 GENCODE basic tsl1 (assigned to previous version 9) PTHR23322\_SF21 UBX DOMAIN CONTAINING 8 REPRODUCTION 8 REP 8 UBX DOMAIN CONTAINING 6

ENSG00000104691 ENSG00000104691.15 ENST00000380154 ENST00000380154.9 10 tsl2

ENSG00000104691 ENSG00000104691.15 ENST00000341403 ENST00000341403.9 10 GENCODE basic tsl3 PTHR23322\_SF21 UBX DOMAIN CONTAINING 8 REPRODUCTION 8 REP 8 UBX DOMAIN CONTAINING 6

ENSG00000104691 ENSG00000104691.15 ENST00000615729 ENST00000615729.4 10 GENCODE basic tsl1 PTHR23322\_SF21 UBX DOMAIN CONTAINING 8 REPRODUCTION 8 REP 8 UBX DOMAIN CONTAINING 6

ENSG00000104691 ENSG00000104691.15 ENST00000518059 ENST00000518059.5 10 tsl3 PTHR23322\_SF21 UBX DOMAIN CONTAINING 8 REPRODUCTION 8 REP 8 UBX DOMAIN CONTAINING 6

ENSG00000104691 ENSG00000104691.15 ENST00000620706 ENST00000620706.1 10 tsl3

ENSG00000104691 ENSG00000104691.15 ENST00000613013 ENST00000613013.1 10 tsl2

ENSG00000110811 ENSG00000110811.20 ENST00000290510 ENST00000290510.10 11 GENCODE basic tsl1 (assigned to previous version 9) PTHR14049\_SF14 PROLYL 3 HYDROXYLASE 3 PRECURSOR EC\_1.14.11.7 LEPRECAN 2 B

ENSG00000110811 ENSG00000110811.20 ENST00000536140 ENST00000536140.5 11 tsl2

ENSG00000110811 ENSG00000110811.20 ENST00000544813 ENST00000544813.5 11 tsl5

ENSG00000110811 ENSG00000110811.20 ENST00000612048 ENST00000612048.4 11 tsl1

ENSG00000110811 ENSG00000110811.20 ENST00000538102 ENST00000538102.5 11 tsl3

ENSG00000110811 ENSG00000110811.20 ENST00000541956 ENST00000541956.5 11 tsl3

ENSG00000110811 ENSG00000110811.20 ENST00000544200 ENST00000544200.5 11 tsl5

ENSG00000110811 ENSG00000110811.20 ENST00000544949 ENST00000544949.5 11 tsl3

ENSG00000110811 ENSG00000110811.20 ENST00000540406 ENST00000540406.5 11 tsl4

ENSG00000110811 ENSG00000110811.20 ENST00000545596 ENST00000545596.1 11 tsl2

ENSG00000110811 ENSG00000110811.20 ENST00000542976 ENST00000542976.2 11 tsl5

ENSG00000118412 ENSG00000118412.12 ENST00000551025 ENST00000551025.3 6 GENCODE basic tsl1 PTHR15489 CASP8 ASSOCIATED 2 FLICE ASSOCIATED HUGE

ENSG00000118412 ENSG00000118412.12 ENST00000548224 ENST00000548224.2 6 tsl5

ENSG00000118412 ENSG00000118412.12 ENST00000237177 ENST00000237177.10 6 tsl5

ENSG00000118412 ENSG00000118412.12 ENST00000547893 ENST00000547893.5 6 tsl5

ENSG00000118412 ENSG00000118412.12 ENST00000552401 ENST00000552401.5 6 tsl1 PTHR15489 CASP8 ASSOCIATED 2 FLICE ASSOCIATED HUGE

ENSG00000118412 ENSG00000118412.12 ENST00000419040 ENST00000419040.6 6 tsl2 PTHR15489 CASP8 ASSOCIATED 2 FLICE ASSOCIATED HUGE

ENSG00000122432 ENSG00000122432.17 ENST00000484939 ENST00000484939.1 6 tsl2

ENSG00000122432 ENSG00000122432.17 ENST00000468437 ENST00000468437.1 6 tsl3

ENSG00000122432 ENSG00000122432.17 ENST00000490879 ENST00000490879.7 6 GENCODE basic tsl5 PTHR14421 SPERMATOGENESIS ASSOCIATED 1

ENSG00000122432 ENSG00000122432.17 ENST00000485121 ENST00000485121.5 6 tsl5

ENSG00000122432 ENSG00000122432.17 ENST00000473108 ENST00000473108.1 6 tsl3

ENSG00000122432 ENSG00000122432.17 ENST00000460286 ENST00000460286.1 6 tsl3

ENSG00000126005 ENSG00000126005.17 ENST00000635104 ENST00000635104.1 12 tsl5

ENSG00000126005 ENSG00000126005.17 ENST00000594413 ENST00000594413.1 12 tslNA

ENSG00000126005 ENSG00000126005.17 ENST00000566203 ENST00000566203.6 12 tsl4

ENSG00000126005 ENSG00000126005.17 ENST00000433764 ENST00000433764.5 12 tsl4

ENSG00000126005 ENSG00000126005.17 ENST00000438751 ENST00000438751.5 12 tsl3

ENSG00000126005 ENSG00000126005.17 ENST00000454184 ENST00000454184.5 12 tsl4

ENSG00000126005 ENSG00000126005.17 ENST00000456350 ENST00000456350.5 12 tsl4

ENSG00000126005 ENSG00000126005.17 ENST00000453892 ENST00000453892.1 12 tsl3

ENSG00000126005 ENSG00000126005.17 ENST00000455178 ENST00000455178.1 12 tsl5

ENSG00000126005 ENSG00000126005.17 ENST00000435366 ENST00000435366.2 12 tsl2

ENSG00000126005 ENSG00000126005.17 ENST00000424358 ENST00000424358.1 12 GENCODE basic tsl2

ENSG00000126005 ENSG00000126005.17 ENST00000456790 ENST00000456790.2 12 GENCODE basic tsl2 (assigned to previous version 1)

ENSG00000135253 ENSG00000135253.13 ENST00000492679 ENST00000492679.5 8 tsl2

ENSG00000135253 ENSG00000135253.13 ENST00000460528 ENST00000460528.1 8 tsl2

ENSG00000135253 ENSG00000135253.13 ENST00000610776 ENST00000610776.4 8 GENCODE basic tsl5 PTHR11339\_SF224 KIELIN/CHORDIN PRECURSOR CYSTEINE RICH BMP REGULATOR 2 CYSTEINE RICH MOTOR NEURON 2 CRIM 2 KIELIN/CHORDIN 1 KCP 1

ENSG00000135253 ENSG00000135253.13 ENST00000613019 ENST00000613019.4 8 GENCODE basic tsl5 PTHR11339\_SF224 KIELIN/CHORDIN PRECURSOR CYSTEINE RICH BMP REGULATOR 2 CYSTEINE RICH MOTOR NEURON 2 CRIM 2 KIELIN/CHORDIN 1 KCP 1

ENSG00000135253 ENSG00000135253.13 ENST00000611280 ENST00000611280.4 8 tsl5 PTHR11339\_SF224 KIELIN/CHORDIN PRECURSOR CYSTEINE RICH BMP REGULATOR 2 CYSTEINE RICH MOTOR NEURON 2 CRIM 2 KIELIN/CHORDIN 1 KCP 1

ENSG00000135253 ENSG00000135253.13 ENST00000616669 ENST00000616669.4 8 tsl5

ENSG00000135253 ENSG00000135253.13 ENST00000612224 ENST00000612224.1 8 tsl2

ENSG00000135253 ENSG00000135253.13 ENST00000620378 ENST00000620378.1 8 GENCODE basic tsl5 PTHR11339\_SF224 KIELIN/CHORDIN PRECURSOR CYSTEINE RICH BMP REGULATOR 2 CYSTEINE RICH MOTOR NEURON 2 CRIM 2 KIELIN/CHORDIN 1 KCP 1

ENSG00000142396 ENSG00000142396.10 ENST00000413518 ENST00000413518.5 8 GENCODE basic tsl2

ENSG00000142396 ENSG00000142396.10 ENST00000427361 ENST00000427361.5 8 GENCODE basic tsl2

ENSG00000142396 ENSG00000142396.10 ENST00000610038 ENST00000610038.5 8 tsl5

ENSG00000142396 ENSG00000142396.10 ENST00000434052 ENST00000434052.5 8 tsl2

ENSG00000142396 ENSG00000142396.10 ENST00000608070 ENST00000608070.5 8 tsl5

ENSG00000142396 ENSG00000142396.10 ENST00000609864 ENST00000609864.5 8 tsl5

ENSG00000142396 ENSG00000142396.10 ENST00000608004 ENST00000608004.1 8 tsl5

ENSG00000142396 ENSG00000142396.10 ENST00000590505 ENST00000590505.1 8 tsl2

ENSG00000144010 ENSG00000144010.9 ENST00000432468 ENST00000432468.1 2 GENCODE basic tsl5 PTHR24103\_SF276 TRIPARTITE MOTIF CONTAINING

ENSG00000144010 ENSG00000144010.9 ENST00000639673 ENST00000639673.1 2 GENCODE basic tsl1 PTHR24103\_SF276 TRIPARTITE MOTIF CONTAINING

ENSG00000144596 ENSG00000144596.13 ENST00000621039 ENST00000621039.5 7 GENCODE basic tsl1 (assigned to previous version 4) PTHR10316\_SF42 GLUTAMATE RECEPTOR INTERACTING 2

ENSG00000144596 ENSG00000144596.13 ENST00000430219 ENST00000430219.2 7 tsl2 PTHR10316\_SF42 GLUTAMATE RECEPTOR INTERACTING 2

ENSG00000144596 ENSG00000144596.13 ENST00000637182 ENST00000637182.1 7 GENCODE basic tsl5 PTHR10316\_SF42 GLUTAMATE RECEPTOR INTERACTING 2

ENSG00000144596 ENSG00000144596.13 ENST00000422481 ENST00000422481.5 7 tsl2

ENSG00000144596 ENSG00000144596.13 ENST00000413414 ENST00000413414.1 7 tsl2

ENSG00000144596 ENSG00000144596.13 ENST00000637939 ENST00000637939.1 7 tsl3 PTHR10316\_SF42 GLUTAMATE RECEPTOR INTERACTING 2

ENSG00000144596 ENSG00000144596.13 ENST00000619221 ENST00000619221.4 7 GENCODE basic tsl5 PTHR10316\_SF42 GLUTAMATE RECEPTOR INTERACTING 2

ENSG00000146839 ENSG00000146839.18 ENST00000613979 ENST00000613979.4 8 GENCODE basic tsl1 PTHR11339\_SF221 ZONADHESIN

ENSG00000146839 ENSG00000146839.18 ENST00000620868 ENST00000620868.4 8 tsl1

ENSG00000146839 ENSG00000146839.18 ENST00000538115 ENST00000538115.5 8 tsl1 PTHR11339\_SF221 ZONADHESIN

ENSG00000146839 ENSG00000146839.18 ENST00000546213 ENST00000546213.5 8 tsl1 PTHR11339\_SF221 ZONADHESIN

ENSG00000146839 ENSG00000146839.18 ENST00000542585 ENST00000542585.5 8 tsl1 PTHR11339\_SF221 ZONADHESIN

ENSG00000146839 ENSG00000146839.18 ENST00000620596 ENST00000620596.4 8 GENCODE basic tsl1 PTHR11339\_SF221 ZONADHESIN

ENSG00000146839 ENSG00000146839.18 ENST00000618565 ENST00000618565.4 8 GENCODE basic tsl5 PTHR11339\_SF221 ZONADHESIN

ENSG00000146839 ENSG00000146839.18 ENST00000546292 ENST00000546292.2 8 GENCODE basic tsl5 PTHR11339\_SF221 ZONADHESIN

ENSG00000157152 ENSG00000157152.17 ENST00000621198 ENST00000621198.5 6 GENCODE basic tsl1 (assigned to previous version 4) Schizophrenia PTHR10841\_SF18 SYNAPSIN 2 SYNAPSIN II

ENSG00000157152 ENSG00000157152.17 ENST00000620175 ENST00000620175.4 6 GENCODE basic tsl1 Schizophrenia PTHR10841\_SF18 SYNAPSIN 2 SYNAPSIN II

ENSG00000157152 ENSG00000157152.17 ENST00000424884 ENST00000424884.1 6 tsl4 Schizophrenia

ENSG00000157152 ENSG00000157152.17 ENST00000439861 ENST00000439861.5 6 tsl2 Schizophrenia

ENSG00000157152 ENSG00000157152.17 ENST00000447752 ENST00000447752.2 6 tsl4 Schizophrenia

ENSG00000157152 ENSG00000157152.17 ENST00000425297 ENST00000425297.2 6 tsl5 Schizophrenia PTHR10841\_SF18 SYNAPSIN 2 SYNAPSIN II

ENSG00000160336 ENSG00000160336.15 ENST00000432094 ENST00000432094.6 4 GENCODE basic tsl1 PTHR24407\_SF12 ZINC FINGER

ENSG00000160336 ENSG00000160336.15 ENST00000613950 ENST00000613950.1 4 GENCODE basic tsl1 PTHR24384 ZINC FINGER

ENSG00000160336 ENSG00000160336.15 ENST00000334095 ENST00000334095.4 4 tsl2

ENSG00000160336 ENSG00000160336.15 ENST00000454407 ENST00000454407.5 4 GENCODE basic tsl5 PTHR24407\_SF12 ZINC FINGER

ENSG00000160963 ENSG00000160963.14 ENST00000313669 ENST00000313669.12 3 GENCODE basic tsl1 (assigned to previous version 11) PTHR24023\_SF95 COLLAGEN ALPHA 1 XXVI CHAIN PRECURSOR ALPHA 1 TYPE XXVI COLLAGEN EMI DOMAIN CONTAINING 2 EMILIN AND MULTIMERIN DOMAIN CONTAINING 2 EMU2

ENSG00000160963 ENSG00000160963.14 ENST00000613501 ENST00000613501.1 3 GENCODE basic tsl1 PTHR24023\_SF95 COLLAGEN ALPHA 1 XXVI CHAIN PRECURSOR ALPHA 1 TYPE XXVI COLLAGEN EMI DOMAIN CONTAINING 2 EMILIN AND MULTIMERIN DOMAIN CONTAINING 2 EMU2

ENSG00000160963 ENSG00000160963.14 ENST00000613091 ENST00000613091.1 3 tsl2

ENSG00000163121 ENSG00000163121.10 ENST00000451794 ENST00000451794.6 4 GENCODE basic tsl5 (assigned to previous version 5) PTHR12429\_SF9 E3 UBIQUITIN LIGASE NEURL3 EC\_2.3.2.27 LUNG INDUCIBLE NEURALIZED RELATED C3CH4 RING DOMAIN NEURALIZED 3 RING TYPE E3 UBIQUITIN TRANSFERASE NEURL3

ENSG00000163121 ENSG00000163121.10 ENST00000310865 ENST00000310865.7 4 GENCODE basic tsl1

ENSG00000163121 ENSG00000163121.10 ENST00000435380 ENST00000435380.3 4 GENCODE basic tsl1 PTHR12429\_SF9 E3 UBIQUITIN LIGASE NEURL3 EC\_2.3.2.27 LUNG INDUCIBLE NEURALIZED RELATED C3CH4 RING DOMAIN NEURALIZED 3 RING TYPE E3 UBIQUITIN TRANSFERASE NEURL3

ENSG00000163121 ENSG00000163121.10 ENST00000444588 ENST00000444588.3 4 tsl1

ENSG00000167117 ENSG00000167117.9 ENST00000300458 ENST00000300458.1 6 tsl2

ENSG00000167117 ENSG00000167117.9 ENST00000450727 ENST00000450727.5 6 GENCODE basic tsl3 PTHR24192 ANKYRIN REPEAT DOMAIN CONTAINING 40

ENSG00000167117 ENSG00000167117.9 ENST00000643007 ENST00000643007.1 6 GENCODE basic PTHR24192 ANKYRIN REPEAT DOMAIN CONTAINING 40

ENSG00000167117 ENSG00000167117.9 ENST00000502517 ENST00000502517.5 6 GENCODE basic tsl1 PTHR24192 ANKYRIN REPEAT DOMAIN CONTAINING 40

ENSG00000167117 ENSG00000167117.9 ENST00000419688 ENST00000419688.1 6 tsl3

ENSG00000167117 ENSG00000167117.9 ENST00000576150 ENST00000576150.1 6 tslNA

ENSG00000167355 ENSG00000167355.8 ENST00000420726 ENST00000420726.6 5 tsl5 (assigned to previous version 5)

ENSG00000167355 ENSG00000167355.8 ENST00000420465 ENST00000420465.6 5 tsl3 (assigned to previous version 5)

ENSG00000167355 ENSG00000167355.8 ENST00000415970 ENST00000415970.6 5 tsl2 (assigned to previous version 5)

ENSG00000167355 ENSG00000167355.8 ENST00000300773 ENST00000300773.3 5 GENCODE basic tslNA PTHR26450 OLFACTORY RECEPTOR OLFACTORY RECEPTOR OR11

ENSG00000167355 ENSG00000167355.8 ENST00000418729 ENST00000418729.1 5 tsl1 PTHR26450 OLFACTORY RECEPTOR OLFACTORY RECEPTOR OR11

ENSG00000167984 ENSG00000167984.18 ENST00000359128 ENST00000359128.10 5 GENCODE basic tsl1 (assigned to previous version 9) PTHR24106\_SF16 AMBIGUOUS

ENSG00000167984 ENSG00000167984.18 ENST00000615877 ENST00000615877.4 5 tsl2 PTHR24106\_SF16 AMBIGUOUS

ENSG00000167984 ENSG00000167984.18 ENST00000324659 ENST00000324659.12 5 GENCODE basic tsl5 PTHR24106\_SF16 AMBIGUOUS

ENSG00000167984 ENSG00000167984.18 ENST00000618137 ENST00000618137.1 5 tsl1 PTHR24106\_SF16 AMBIGUOUS

ENSG00000167984 ENSG00000167984.18 ENST00000603055 ENST00000603055.1 5 tsl5

ENSG00000170092 ENSG00000170092.14 ENST00000625065 ENST00000625065.3 3 GENCODE basic tsl5 PTHR31156 SPEEDY

ENSG00000170092 ENSG00000170092.14 ENST00000455862 ENST00000455862.6 3 GENCODE basic tsl1 PTHR31156 SPEEDY

ENSG00000170092 ENSG00000170092.14 ENST00000624640 ENST00000624640.1 3 GENCODE basic tsl5 PTHR31156 SPEEDY

ENSG00000170152 ENSG00000170152.5 ENST00000441025 ENST00000441025.2 1 GENCODE basic tslNA (assigned to previous version 1)

ENSG00000170468 ENSG00000170468.7 ENST00000304061 ENST00000304061.7 1 GENCODE basic tslNA PTHR13096 BIFUNCTIONAL LYSINE SPECIFIC DEMETHYLASE AND HISTIDYL HYDROXYLASE NO66 EC\_1.14.11.- EC\_1.14.11.27 HISTONE LYSINE DEMETHYLASE NO66

ENSG00000170846 ENSG00000170846.17 ENST00000645429 ENST00000645429.1 4

ENSG00000170846 ENSG00000170846.17 ENST00000307533 ENST00000307533.10 4 tsl1 PTHR31324 MORF4 FAMILY ASSOCIATED 1

ENSG00000170846 ENSG00000170846.17 ENST00000635031 ENST00000635031.1 4 GENCODE basic tslNA PTHR31324 MORF4 FAMILY ASSOCIATED 1

ENSG00000170846 ENSG00000170846.17 ENST00000444232 ENST00000444232.3 4 tsl1 PTHR31324 MORF4 FAMILY ASSOCIATED 1

ENSG00000171943 ENSG00000171943.11 ENST00000367123 ENST00000367123.7 5 GENCODE basic tsl5 PTHR14166 SLIT ROBO RHO GTPASE ACTIVATING RHO GTPASE ACTIVATING

ENSG00000171943 ENSG00000171943.11 ENST00000617209 ENST00000617209.1 5 tsl5

ENSG00000171943 ENSG00000171943.11 ENST00000412759 ENST00000412759.2 5 tsl5

ENSG00000171943 ENSG00000171943.11 ENST00000613462 ENST00000613462.1 5 tsl5

ENSG00000171943 ENSG00000171943.11 ENST00000304465 ENST00000304465.7 5 GENCODE basic tsl5 PTHR14166 SLIT ROBO RHO GTPASE ACTIVATING RHO GTPASE ACTIVATING

ENSG00000173867 ENSG00000173867.10 ENST00000649547 ENST00000649547.1 2 GENCODE basic PTHR13374 DET1 HOMOLOG DE ETIOLATED 1 HOMOLOG

ENSG00000173867 ENSG00000173867.10 ENST00000561140 ENST00000561140.1 2 tsl3

ENSG00000175164 ENSG00000175164.15 ENST00000453660 ENST00000453660.4 5 tsl1 (assigned to previous version 3) BLOOD GROUP ABO SYSTEM

ENSG00000175164 ENSG00000175164.15 ENST00000647353 ENST00000647353.1 5 BLOOD GROUP ABO SYSTEM

ENSG00000175164 ENSG00000175164.15 ENST00000651471 ENST00000651471.1 5 BLOOD GROUP ABO SYSTEM

ENSG00000175164 ENSG00000175164.15 ENST00000611156 ENST00000611156.4 5 GENCODE basic tsl5 BLOOD GROUP ABO SYSTEM PTHR10462 N ACETYLLACTOSAMINIDE ALPHA 1 3 GALACTOSYLTRANSFERASE EC\_2.4.1.87

ENSG00000175164 ENSG00000175164.15 ENST00000538324 ENST00000538324.2 5 GENCODE basic tsl5 BLOOD GROUP ABO SYSTEM PTHR10462 N ACETYLLACTOSAMINIDE ALPHA 1 3 GALACTOSYLTRANSFERASE EC\_2.4.1.87

ENSG00000175513 ENSG00000175513.9 ENST00000532620 ENST00000532620.5 5 GENCODE basic tsl1 PTHR21501\_SF2 TESTIS SPECIFIC 10 INTERACTING TSGA10 INTERACTING

ENSG00000175513 ENSG00000175513.9 ENST00000534740 ENST00000534740.5 5 tsl2

ENSG00000175513 ENSG00000175513.9 ENST00000608857 ENST00000608857.2 5 tsl2 PTHR21501\_SF2 TESTIS SPECIFIC 10 INTERACTING TSGA10 INTERACTING

ENSG00000175513 ENSG00000175513.9 ENST00000531518 ENST00000531518.1 5 tsl3

ENSG00000175513 ENSG00000175513.9 ENST00000528291 ENST00000528291.2 5 tsl3

ENSG00000175699 ENSG00000175699.14 ENST00000449472 ENST00000449472.1 6 tsl3

ENSG00000175699 ENSG00000175699.14 ENST00000359253 ENST00000359253.2 6 tsl1 TF618366 UNCHARACTERIZED CCDC197 COILED COIL DOMAIN CONTAINING 197

ENSG00000175699 ENSG00000175699.14 ENST00000636493 ENST00000636493.1 6 GENCODE basic tsl5 TF618366 UNCHARACTERIZED CCDC197 COILED COIL DOMAIN CONTAINING 197

ENSG00000175699 ENSG00000175699.14 ENST00000640978 ENST00000640978.1 6 GENCODE basic tsl5 TF618366 UNCHARACTERIZED CCDC197 COILED COIL DOMAIN CONTAINING 197

ENSG00000175699 ENSG00000175699.14 ENST00000444118 ENST00000444118.5 6 tsl1

ENSG00000175699 ENSG00000175699.14 ENST00000455802 ENST00000455802.5 6 tsl5

ENSG00000175701 ENSG00000175701.10 ENST00000414416 ENST00000414416.2 3 GENCODE basic tsl1 TF333453 SMALL INTEGRAL MEMBRANE 37

ENSG00000175701 ENSG00000175701.10 ENST00000611969 ENST00000611969.4 3 GENCODE basic tsl1 TF333453 SMALL INTEGRAL MEMBRANE 37

ENSG00000175701 ENSG00000175701.10 ENST00000426713 ENST00000426713.1 3 GENCODE basic tsl3 TF333453 SMALL INTEGRAL MEMBRANE 37

ENSG00000177144 ENSG00000177144.7 ENST00000322209 ENST00000322209.4 1 GENCODE basic tslNA PTHR12629\_SF6 DIPHOSPHOINOSITOL POLYPHOSPHATE PHOSPHOHYDROLASE 2 DIPP 2 EC\_3.6.1.52 DIADENOSINE 5' 5''' P1 P6 HEXAPHOSPHATE HYDROLASE 2 NUCLEOSIDE DIPHOSPHATE LINKED MOIETY X MOTIF 4 NUDIX MOTIF 4

ENSG00000177839 ENSG00000177839.6 ENST00000623266 ENST00000623266.1 3 tsl4

ENSG00000177839 ENSG00000177839.6 ENST00000316105 ENST00000316105.6 3 GENCODE basic tslNA PTHR24028\_SF54 PROTOCADHERIN BETA PRECURSOR PCDH BETA

ENSG00000177839 ENSG00000177839.6 ENST00000624909 ENST00000624909.1 3 tsl3 PTHR24028\_SF54 PROTOCADHERIN BETA PRECURSOR PCDH BETA

ENSG00000177853 ENSG00000177853.14 ENST00000316045 ENST00000316045.9 10 GENCODE basic tsl1 PTHR10032\_SF198 ZINC FINGER 518A

ENSG00000177853 ENSG00000177853.14 ENST00000488700 ENST00000488700.5 10 tsl2

ENSG00000177853 ENSG00000177853.14 ENST00000539666 ENST00000539666.5 10 tsl4

ENSG00000177853 ENSG00000177853.14 ENST00000478086 ENST00000478086.5 10 tsl1 PTHR10032\_SF198 ZINC FINGER 518A

ENSG00000177853 ENSG00000177853.14 ENST00000563195 ENST00000563195.1 10 tsl3

ENSG00000177853 ENSG00000177853.14 ENST00000484770 ENST00000484770.1 10 tsl3

ENSG00000177853 ENSG00000177853.14 ENST00000534948 ENST00000534948.2 10 tsl1

ENSG00000177853 ENSG00000177853.14 ENST00000442635 ENST00000442635.2 10 tsl5

ENSG00000177853 ENSG00000177853.14 ENST00000624776 ENST00000624776.3 10 GENCODE basic tsl1 PTHR10032\_SF198 ZINC FINGER 518A

ENSG00000177853 ENSG00000177853.14 ENST00000614149 ENST00000614149.1 10 GENCODE basic tsl5 PTHR10032\_SF198 ZINC FINGER 518A

ENSG00000178947 ENSG00000178947.9 ENST00000417443 ENST00000417443.3 1 GENCODE basic tsl1 (assigned to previous version 2) TF336091 SMALL INTEGRAL MEMBRANE 10

ENSG00000179412 ENSG00000179412.10 ENST00000323770 ENST00000323770.7 1 GENCODE basic tslNA PTHR13968\_SF17 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN C HNRNP C

ENSG00000179600 ENSG00000179600.3 ENST00000621500 ENST00000621500.1 2 GENCODE basic tsl3 PTHR11515\_SF14 GLYCOPROTEIN HORMONE BETA 5 PRECURSOR THYROSTIMULIN SUBUNIT BETA

ENSG00000179600 ENSG00000179600.3 ENST00000314140 ENST00000314140.2 2 GENCODE basic tsl1 PTHR11515\_SF14 GLYCOPROTEIN HORMONE BETA 5 PRECURSOR THYROSTIMULIN SUBUNIT BETA

ENSG00000179859 ENSG00000179859.9 ENST00000324348 ENST00000324348.8 3 GENCODE basic tsl2 PTHR13139\_SF26 RING FINGER 227

ENSG00000179859 ENSG00000179859.9 ENST00000635932 ENST00000635932.1 3 GENCODE basic tslNA TF636275 UNKNOWN

ENSG00000179859 ENSG00000179859.9 ENST00000640240 ENST00000640240.1 3 GENCODE basic tsl2 TF636275 UNKNOWN

ENSG00000180042 ENSG00000180042.5 ENST00000572493 ENST00000572493.2 1 GENCODE basic tslNA (assigned to previous version 1) PTHR26451\_SF196 UNCHARACTERIZED

ENSG00000181404 ENSG00000181404.17 ENST00000442898 ENST00000442898.5 2 GENCODE basic tsl2 (assigned to previous version 4) PTHR23331 WASH COMPLEX SUBUNIT 1 WAS FAMILY HOMOLOG 1

ENSG00000181404 ENSG00000181404.17 ENST00000642633 ENST00000642633.1 2

ENSG00000182310 ENSG00000182310.14 ENST00000646845 ENST00000646845.1 14

ENSG00000182310 ENSG00000182310.14 ENST00000576093 ENST00000576093.5 14 tsl1

ENSG00000182310 ENSG00000182310.14 ENST00000573266 ENST00000573266.5 14 tsl2

ENSG00000182310 ENSG00000182310.14 ENST00000637797 ENST00000637797.1 14 GENCODE basic tsl1 TF336379 SPERM ACROSOME MEMBRANE ASSOCIATED 6 PRECURSOR

ENSG00000182310 ENSG00000182310.14 ENST00000571328 ENST00000571328.1 14 tsl3

ENSG00000182310 ENSG00000182310.14 ENST00000574072 ENST00000574072.5 14 tsl3

ENSG00000182310 ENSG00000182310.14 ENST00000576494 ENST00000576494.5 14 tsl3

ENSG00000182310 ENSG00000182310.14 ENST00000572160 ENST00000572160.5 14 tsl5

ENSG00000182310 ENSG00000182310.14 ENST00000572565 ENST00000572565.5 14 tsl2

ENSG00000182310 ENSG00000182310.14 ENST00000572703 ENST00000572703.2 14 tsl5

ENSG00000182310 ENSG00000182310.14 ENST00000573151 ENST00000573151.5 14 tsl2

ENSG00000182310 ENSG00000182310.14 ENST00000576975 ENST00000576975.1 14 tsl2

ENSG00000182310 ENSG00000182310.14 ENST00000573896 ENST00000573896.1 14 tsl4

ENSG00000182310 ENSG00000182310.14 ENST00000572609 ENST00000572609.1 14 tsl3

ENSG00000182612 ENSG00000182612.10 ENST00000571914 ENST00000571914.1 5 tsl2

ENSG00000182612 ENSG00000182612.10 ENST00000574882 ENST00000574882.5 5 GENCODE basic tsl1 PTHR19282\_SF191 TETRASPANIN 10 TSPAN 10 OCULOSPANIN

ENSG00000182612 ENSG00000182612.10 ENST00000571707 ENST00000571707.1 5 tsl2

ENSG00000182612 ENSG00000182612.10 ENST00000621293 ENST00000621293.4 5 tsl1 PTHR19282\_SF191 TETRASPANIN 10 TSPAN 10 OCULOSPANIN

ENSG00000182612 ENSG00000182612.10 ENST00000611590 ENST00000611590.1 5 GENCODE basic tsl1 PTHR19282\_SF191 TETRASPANIN 10 TSPAN 10 OCULOSPANIN

ENSG00000183185 ENSG00000183185.9 ENST00000472788 ENST00000472788.5 3 GENCODE basic tsl5 PTHR18945\_SF196 GAMMA AMINOBUTYRIC ACID RECEPTOR SUBUNIT RHO 3 PRECURSOR GABA A RECEPTOR SUBUNIT RHO 3 GABA C RECEPTOR

ENSG00000183185 ENSG00000183185.9 ENST00000470589 ENST00000470589.1 3 tsl1

ENSG00000183185 ENSG00000183185.9 ENST00000621172 ENST00000621172.4 3 GENCODE basic tsl5 PTHR18945\_SF196 GAMMA AMINOBUTYRIC ACID RECEPTOR SUBUNIT RHO 3 PRECURSOR GABA A RECEPTOR SUBUNIT RHO 3 GABA C RECEPTOR

ENSG00000183378 ENSG00000183378.11 ENST00000533663 ENST00000533663.5 3 GENCODE basic tsl5 PTHR24251\_SF16 OVOCHYMASE 2 PRECURSOR EC\_3.4.21.120 OVIDUCTAL PROTEASE OVIDUCTIN

ENSG00000183378 ENSG00000183378.11 ENST00000534817 ENST00000534817.1 3 tsl3

ENSG00000183378 ENSG00000183378.11 ENST00000612000 ENST00000612000.1 3 GENCODE basic tsl5 PTHR24251\_SF16 OVOCHYMASE 2 PRECURSOR EC\_3.4.21.120 OVIDUCTAL PROTEASE OVIDUCTIN

ENSG00000185040 ENSG00000185040.13 ENST00000632547 ENST00000632547.1 3 GENCODE basic tsl5 PTHR31156 SPEEDY

ENSG00000185040 ENSG00000185040.13 ENST00000633306 ENST00000633306.1 3 GENCODE basic tsl5 PTHR31156 SPEEDY

ENSG00000185040 ENSG00000185040.13 ENST00000515340 ENST00000515340.2 3 GENCODE basic tsl5 PTHR31156 SPEEDY

ENSG00000186526 ENSG00000186526.12 ENST00000617645 ENST00000617645.4 12 tsl3 PTHR24290\_SF45 OMEGA HYDROXYLASE CYTOCHROME P450 CYTOCHROME P450 LTB OMEGA LEUKOTRIENE 20 MONOOXYGENASE

ENSG00000186526 ENSG00000186526.12 ENST00000441682 ENST00000441682.6 12 tsl2

ENSG00000186526 ENSG00000186526.12 ENST00000325723 ENST00000325723.10 12 tsl2 PTHR24290\_SF61 PHYLLOQUINONE OMEGA HYDROXYLASE CY EC\_1.14.14.78 3 HYDROXY FATTY ACIDS OMEGA HYDROXYLASE CY EC\_1.14.14.- CYTOCHROME P450 4F11 CYPIVF11

ENSG00000186526 ENSG00000186526.12 ENST00000590209 ENST00000590209.2 12 tsl2

ENSG00000186526 ENSG00000186526.12 ENST00000622291 ENST00000622291.4 12 tsl2

ENSG00000186526 ENSG00000186526.12 ENST00000612078 ENST00000612078.4 12 GENCODE basic tsl1 PTHR24290\_SF52 CYTOCHROME P450 EC\_1.14.14.1

ENSG00000186526 ENSG00000186526.12 ENST00000587680 ENST00000587680.2 12 tsl3

ENSG00000186526 ENSG00000186526.12 ENST00000589927 ENST00000589927.6 12 tsl3

ENSG00000186526 ENSG00000186526.12 ENST00000585349 ENST00000585349.6 12 tsl5

ENSG00000186526 ENSG00000186526.12 ENST00000590745 ENST00000590745.1 12 tsl2

ENSG00000186526 ENSG00000186526.12 ENST00000589778 ENST00000589778.2 12 tsl2

ENSG00000186526 ENSG00000186526.12 ENST00000589722 ENST00000589722.2 12 tsl4 PTHR24290\_SF52 CYTOCHROME P450 EC\_1.14.14.1

ENSG00000186788 ENSG00000186788.13 ENST00000445385 ENST00000445385.2 1 GENCODE basic tsl1 PTHR21859 SPERMATOGENESIS ASSOCIATED FA

ENSG00000186886 ENSG00000186886.8 ENST00000641440 ENST00000641440.1 1 GENCODE basic PTHR26452 OLFACTORY RECEPTOR OLFACTORY RECEPTOR

ENSG00000187791 ENSG00000187791.13 ENST00000340783 ENST00000340783.11 3 GENCODE basic tsl4 (assigned to previous version 10) PTHR21859 SPERMATOGENESIS ASSOCIATED FA

ENSG00000187791 ENSG00000187791.13 ENST00000603640 ENST00000603640.6 3 GENCODE basic tsl5 PTHR21859 SPERMATOGENESIS ASSOCIATED FA

ENSG00000187791 ENSG00000187791.13 ENST00000603592 ENST00000603592.1 3 GENCODE basic tsl3 PTHR21859 SPERMATOGENESIS ASSOCIATED FA

ENSG00000188070 ENSG00000188070.9 ENST00000433688 ENST00000433688.2 4 GENCODE basic tsl5 Ependymoma TF607796 UNCHARACTERIZED

ENSG00000188070 ENSG00000188070.9 ENST00000338498 ENST00000338498.6 4 tsl1 Ependymoma

ENSG00000188070 ENSG00000188070.9 ENST00000445014 ENST00000445014.3 4 tsl5 Ependymoma TF607796 UNCHARACTERIZED

ENSG00000188070 ENSG00000188070.9 ENST00000546282 ENST00000546282.3 4 GENCODE basic tsl3 Ependymoma

ENSG00000188338 ENSG00000188338.15 ENST00000610458 ENST00000610458.4 9 tsl3 PTHR22950\_SF22 SODIUM COUPLED NEUTRAL AMINO ACID TRANSPORTER 3 N SYSTEM AMINO ACID TRANSPORTER 1 NA + COUPLED NEUTRAL AMINO ACID TRANSPORTER 3 SOLUTE CARRIER FAMILY 38 MEMBER 3 SYSTEM N AMINO ACID TRANSPORTER 1

ENSG00000188338 ENSG00000188338.15 ENST00000614032 ENST00000614032.5 9 GENCODE basic tsl1 (assigned to previous version 4) PTHR22950\_SF22 SODIUM COUPLED NEUTRAL AMINO ACID TRANSPORTER 3 N SYSTEM AMINO ACID TRANSPORTER 1 NA + COUPLED NEUTRAL AMINO ACID TRANSPORTER 3 SOLUTE CARRIER FAMILY 38 MEMBER 3 SYSTEM N AMINO ACID TRANSPORTER 1

ENSG00000188338 ENSG00000188338.15 ENST00000621714 ENST00000621714.4 9 tsl5 PTHR22950\_SF22 SODIUM COUPLED NEUTRAL AMINO ACID TRANSPORTER 3 N SYSTEM AMINO ACID TRANSPORTER 1 NA + COUPLED NEUTRAL AMINO ACID TRANSPORTER 3 SOLUTE CARRIER FAMILY 38 MEMBER 3 SYSTEM N AMINO ACID TRANSPORTER 1

ENSG00000188338 ENSG00000188338.15 ENST00000620404 ENST00000620404.1 9 tsl3

ENSG00000188338 ENSG00000188338.15 ENST00000445096 ENST00000445096.5 9 tsl5 PTHR22950\_SF22 SODIUM COUPLED NEUTRAL AMINO ACID TRANSPORTER 3 N SYSTEM AMINO ACID TRANSPORTER 1 NA + COUPLED NEUTRAL AMINO ACID TRANSPORTER 3 SOLUTE CARRIER FAMILY 38 MEMBER 3 SYSTEM N AMINO ACID TRANSPORTER 1

ENSG00000188338 ENSG00000188338.15 ENST00000621456 ENST00000621456.2 9 tsl5 PTHR22950\_SF22 SODIUM COUPLED NEUTRAL AMINO ACID TRANSPORTER 3 N SYSTEM AMINO ACID TRANSPORTER 1 NA + COUPLED NEUTRAL AMINO ACID TRANSPORTER 3 SOLUTE CARRIER FAMILY 38 MEMBER 3 SYSTEM N AMINO ACID TRANSPORTER 1

ENSG00000188338 ENSG00000188338.15 ENST00000439524 ENST00000439524.2 9 tsl3

ENSG00000188338 ENSG00000188338.15 ENST00000417851 ENST00000417851.2 9 tsl3

ENSG00000188338 ENSG00000188338.15 ENST00000417121 ENST00000417121.2 9 tsl5

ENSG00000188585 ENSG00000188585.9 ENST00000646925 ENST00000646925.1 4 GENCODE basic

ENSG00000188585 ENSG00000188585.9 ENST00000623247 ENST00000623247.2 4 GENCODE basic tsl5

ENSG00000188585 ENSG00000188585.9 ENST00000641292 ENST00000641292.1 4

ENSG00000188585 ENSG00000188585.9 ENST00000445098 ENST00000445098.2 4 tsl4

ENSG00000188691 ENSG00000188691.5 ENST00000532411 ENST00000532411.2 2 GENCODE basic tslNA PTHR24248\_SF69 OLFACTORY RECEPTOR 56A5

ENSG00000188691 ENSG00000188691.5 ENST00000340110 ENST00000340110.3 2 GENCODE basic tslNA PTHR24248\_SF69 OLFACTORY RECEPTOR 56A5

ENSG00000189077 ENSG00000189077.11 ENST00000493111 ENST00000493111.7 15 GENCODE basic tsl1 (assigned to previous version 6) PTHR21433 TRANSMEMBRANE

ENSG00000189077 ENSG00000189077.11 ENST00000417509 ENST00000417509.5 15 GENCODE basic tsl2 PTHR21433 TRANSMEMBRANE

ENSG00000189077 ENSG00000189077.11 ENST00000484946 ENST00000484946.5 15 tsl2

ENSG00000189077 ENSG00000189077.11 ENST00000490656 ENST00000490656.5 15 tsl3 PTHR21433 TRANSMEMBRANE

ENSG00000189077 ENSG00000189077.11 ENST00000439537 ENST00000439537.5 15 GENCODE basic tsl1 PTHR21433 TRANSMEMBRANE

ENSG00000189077 ENSG00000189077.11 ENST00000493251 ENST00000493251.5 15 tsl3

ENSG00000189077 ENSG00000189077.11 ENST00000460127 ENST00000460127.1 15 tsl3

ENSG00000189077 ENSG00000189077.11 ENST00000440632 ENST00000440632.5 15 tsl5 PTHR21433 TRANSMEMBRANE

ENSG00000189077 ENSG00000189077.11 ENST00000480899 ENST00000480899.5 15 tsl5 PTHR21433 TRANSMEMBRANE

ENSG00000189077 ENSG00000189077.11 ENST00000465989 ENST00000465989.1 15 tsl2

ENSG00000189077 ENSG00000189077.11 ENST00000431867 ENST00000431867.5 15 tsl5

ENSG00000189077 ENSG00000189077.11 ENST00000465494 ENST00000465494.5 15 tsl3

ENSG00000189077 ENSG00000189077.11 ENST00000480538 ENST00000480538.2 15 tsl2

ENSG00000189077 ENSG00000189077.11 ENST00000485200 ENST00000485200.1 15 tsl3 PTHR21433 TRANSMEMBRANE

ENSG00000189077 ENSG00000189077.11 ENST00000486865 ENST00000486865.1 15 tsl3

ENSG00000189357 ENSG00000189357.8 ENST00000419782 ENST00000419782.4 1 GENCODE basic tsl1 PTHR21859 SPERMATOGENESIS ASSOCIATED FA

ENSG00000189431 ENSG00000189431.7 ENST00000529419 ENST00000529419.2 1 GENCODE basic tslNA PTHR15286 RAS ASSOCIATION DOMAIN CONTAINING 1

ENSG00000196289 ENSG00000196289.7 ENST00000419583 ENST00000419583.2 1 GENCODE basic tslNA PTHR12768 BECLIN 1

ENSG00000196369 ENSG00000196369.11 ENST00000612199 ENST00000612199.4 7 GENCODE basic tsl1 PTHR14166 SLIT ROBO RHO GTPASE ACTIVATING RHO GTPASE ACTIVATING

ENSG00000196369 ENSG00000196369.11 ENST00000641863 ENST00000641863.1 7 GENCODE basic PTHR14166 SLIT ROBO RHO GTPASE ACTIVATING RHO GTPASE ACTIVATING

ENSG00000196369 ENSG00000196369.11 ENST00000621582 ENST00000621582.1 7 tsl5

ENSG00000196369 ENSG00000196369.11 ENST00000467933 ENST00000467933.2 7 tsl4

ENSG00000196369 ENSG00000196369.11 ENST00000463366 ENST00000463366.1 7 tsl4

ENSG00000196369 ENSG00000196369.11 ENST00000494534 ENST00000494534.1 7 tsl4

ENSG00000196369 ENSG00000196369.11 ENST00000619678 ENST00000619678.1 7 GENCODE basic tsl5 PTHR14166 SLIT ROBO RHO GTPASE ACTIVATING RHO GTPASE ACTIVATING

ENSG00000196421 ENSG00000196421.8 ENST00000444463 ENST00000444463.5 5 tsl1

ENSG00000196421 ENSG00000196421.8 ENST00000431158 ENST00000431158.1 5 tsl1

ENSG00000196421 ENSG00000196421.8 ENST00000636176 ENST00000636176.1 5 GENCODE basic tsl5

ENSG00000196421 ENSG00000196421.8 ENST00000463337 ENST00000463337.1 5 tsl1

ENSG00000196421 ENSG00000196421.8 ENST00000358393 ENST00000358393.1 5 tsl2

ENSG00000196553 ENSG00000196553.15 ENST00000641761 ENST00000641761.1 12

ENSG00000196553 ENSG00000196553.15 ENST00000641281 ENST00000641281.1 12

ENSG00000196553 ENSG00000196553.15 ENST00000641812 ENST00000641812.1 12 TF603818 COILED COIL DOMAIN CONTAINING 196

ENSG00000196553 ENSG00000196553.15 ENST00000641536 ENST00000641536.1 12 TF603818 COILED COIL DOMAIN CONTAINING 196

ENSG00000196553 ENSG00000196553.15 ENST00000641713 ENST00000641713.1 12 TF603818 COILED COIL DOMAIN CONTAINING 196

ENSG00000196553 ENSG00000196553.15 ENST00000389594 ENST00000389594.7 12 tsl5 TF603818 COILED COIL DOMAIN CONTAINING 196

ENSG00000196553 ENSG00000196553.15 ENST00000359454 ENST00000359454.10 12 tsl1 TF603818 COILED COIL DOMAIN CONTAINING 196

ENSG00000196553 ENSG00000196553.15 ENST00000636229 ENST00000636229.1 12 GENCODE basic tsl5 TF603818 COILED COIL DOMAIN CONTAINING 196

ENSG00000196553 ENSG00000196553.15 ENST00000411796 ENST00000411796.6 12 tsl1 TF603818 COILED COIL DOMAIN CONTAINING 196

ENSG00000196553 ENSG00000196553.15 ENST00000450299 ENST00000450299.6 12 tsl3 TF603818 COILED COIL DOMAIN CONTAINING 196

ENSG00000196553 ENSG00000196553.15 ENST00000432289 ENST00000432289.5 12 tsl3

ENSG00000196553 ENSG00000196553.15 ENST00000436570 ENST00000436570.2 12 tsl2

ENSG00000196589 ENSG00000196589.6 ENST00000636986 ENST00000636986.1 2 GENCODE basic tsl1 PTHR12396 METHYL CPG BINDING DOMAIN 3 MBD3

ENSG00000196589 ENSG00000196589.6 ENST00000637800 ENST00000637800.1 2 GENCODE basic tsl1 PTHR12396 METHYL CPG BINDING DOMAIN 3 MBD3

ENSG00000196912 ENSG00000196912.12 ENST00000359901 ENST00000359901.8 8 GENCODE basic tsl5 PTHR24176\_SF1 ANKYRIN REPEAT DOMAIN CONTAINING

ENSG00000196912 ENSG00000196912.12 ENST00000488634 ENST00000488634.2 8 tsl1

ENSG00000196912 ENSG00000196912.12 ENST00000615794 ENST00000615794.1 8 tsl2

ENSG00000196912 ENSG00000196912.12 ENST00000443455 ENST00000443455.5 8 tsl2 PTHR24176\_SF1 ANKYRIN REPEAT DOMAIN CONTAINING

ENSG00000196912 ENSG00000196912.12 ENST00000419390 ENST00000419390.2 8 tsl2 PTHR24176\_SF1 ANKYRIN REPEAT DOMAIN CONTAINING

ENSG00000196912 ENSG00000196912.12 ENST00000258459 ENST00000258459.11 8 GENCODE basic tsl5 PTHR24176\_SF1 ANKYRIN REPEAT DOMAIN CONTAINING

ENSG00000196912 ENSG00000196912.12 ENST00000438709 ENST00000438709.6 8 GENCODE basic tsl5 PTHR24176\_SF1 ANKYRIN REPEAT DOMAIN CONTAINING

ENSG00000196912 ENSG00000196912.12 ENST00000497329 ENST00000497329.6 8 GENCODE basic tsl1 PTHR24176\_SF1 ANKYRIN REPEAT DOMAIN CONTAINING

ENSG00000196972 ENSG00000196972.9 ENST00000433425 ENST00000433425.4 1 GENCODE basic tsl1 (assigned to previous version 3) TF336091 SMALL INTEGRAL MEMBRANE 10

ENSG00000197062 ENSG00000197062.11 ENST00000316606 ENST00000316606.10 7 GENCODE basic tsl1 PTHR23226\_SF56 ZINC FINGER AND SCAN DOMAIN CONTAINING 26 ZINC FINGER 187

ENSG00000197062 ENSG00000197062.11 ENST00000617168 ENST00000617168.4 7 tsl2 PTHR23226\_SF56 ZINC FINGER AND SCAN DOMAIN CONTAINING 26 ZINC FINGER 187

ENSG00000197062 ENSG00000197062.11 ENST00000611552 ENST00000611552.2 7 GENCODE basic tsl2 PTHR23226\_SF56 ZINC FINGER AND SCAN DOMAIN CONTAINING 26 ZINC FINGER 187

ENSG00000197062 ENSG00000197062.11 ENST00000623276 ENST00000623276.3 7 GENCODE basic tsl3 PTHR23226\_SF56 ZINC FINGER AND SCAN DOMAIN CONTAINING 26 ZINC FINGER 187

ENSG00000197062 ENSG00000197062.11 ENST00000619937 ENST00000619937.4 7 GENCODE basic tsl2 PTHR23226\_SF56 ZINC FINGER AND SCAN DOMAIN CONTAINING 26 ZINC FINGER 187

ENSG00000197062 ENSG00000197062.11 ENST00000614088 ENST00000614088.1 7 GENCODE basic tsl3 PTHR23226\_SF56 ZINC FINGER AND SCAN DOMAIN CONTAINING 26 ZINC FINGER 187

ENSG00000197062 ENSG00000197062.11 ENST00000421553 ENST00000421553.6 7 GENCODE basic tsl1 PTHR23226\_SF56 ZINC FINGER AND SCAN DOMAIN CONTAINING 26 ZINC FINGER 187

ENSG00000197253 ENSG00000197253.13 ENST00000611196 ENST00000611196.4 3 tsl1 PTHR24268\_SF98 TRYPTASE PRECURSOR TRYPTASE EC\_3.4.21.59 TRYPTASE

ENSG00000197253 ENSG00000197253.13 ENST00000606293 ENST00000606293.5 3 GENCODE basic tsl1 PTHR24268\_SF98 TRYPTASE PRECURSOR TRYPTASE EC\_3.4.21.59 TRYPTASE

ENSG00000197253 ENSG00000197253.13 ENST00000612142 ENST00000612142.1 3 GENCODE basic tsl1 PTHR24268\_SF98 TRYPTASE PRECURSOR TRYPTASE EC\_3.4.21.59 TRYPTASE

ENSG00000197558 ENSG00000197558.11 ENST00000623373 ENST00000623373.3 11 tsl5

ENSG00000197558 ENSG00000197558.11 ENST00000486824 ENST00000486824.3 11 tsl4

ENSG00000197558 ENSG00000197558.11 ENST00000493502 ENST00000493502.3 11 tsl5

ENSG00000197558 ENSG00000197558.11 ENST00000475488 ENST00000475488.3 11 tsl1

ENSG00000197558 ENSG00000197558.11 ENST00000481772 ENST00000481772.3 11 tsl5

ENSG00000197558 ENSG00000197558.11 ENST00000492965 ENST00000492965.5 11 tsl1

ENSG00000197558 ENSG00000197558.11 ENST00000488835 ENST00000488835.5 11 tsl1

ENSG00000197558 ENSG00000197558.11 ENST00000461331 ENST00000461331.5 11 tsl1

ENSG00000197558 ENSG00000197558.11 ENST00000465639 ENST00000465639.5 11 tsl2

ENSG00000197558 ENSG00000197558.11 ENST00000472850 ENST00000472850.3 11 tsl2

ENSG00000197558 ENSG00000197558.11 ENST00000378016 ENST00000378016.4 11 GENCODE basic tsl5 PTHR11339\_SF256 SCO SPONDIN PRECURSOR

ENSG00000197674 ENSG00000197674.7 ENST00000641159 ENST00000641159.1 1 GENCODE basic PTHR26450 OLFACTORY RECEPTOR OLFACTORY RECEPTOR OR11

ENSG00000197849 ENSG00000197849.6 ENST00000641972 ENST00000641972.1 2 GENCODE basic PTHR26452 OLFACTORY RECEPTOR OLFACTORY RECEPTOR

ENSG00000197849 ENSG00000197849.6 ENST00000341493 ENST00000341493.3 2 GENCODE basic tslNA PTHR26452 OLFACTORY RECEPTOR OLFACTORY RECEPTOR

ENSG00000198547 ENSG00000198547.8 ENST00000608990 ENST00000608990.5 2 GENCODE basic tsl1

ENSG00000198547 ENSG00000198547.8 ENST00000360785 ENST00000360785.5 2 GENCODE basic tsl1

ENSG00000198678 ENSG00000198678.5 ENST00000328207 ENST00000328207.6 1 GENCODE basic tslNA PTHR26451\_SF181 OLFACTORY RECEPTOR

ENSG00000203499 ENSG00000203499.11 ENST00000533004 ENST00000533004.5 5 GENCODE basic tsl2

ENSG00000203499 ENSG00000203499.11 ENST00000527139 ENST00000527139.6 5 GENCODE basic tsl5 PTHR24193\_SF74 IQ MOTIF AND ANKYRIN REPEAT DOMAIN CONTAINING

ENSG00000203499 ENSG00000203499.11 ENST00000534398 ENST00000534398.1 5 tsl3

ENSG00000203499 ENSG00000203499.11 ENST00000534089 ENST00000534089.5 5 tsl3

ENSG00000203499 ENSG00000203499.11 ENST00000532625 ENST00000532625.1 5 tsl3

ENSG00000204025 ENSG00000204025.7 ENST00000612026 ENST00000612026.5 3 GENCODE basic tsl3 TF351966 UNCHARACTERIZED

ENSG00000204025 ENSG00000204025.7 ENST00000635763 ENST00000635763.1 3 GENCODE basic tsl2 TF351966 UNCHARACTERIZED

ENSG00000204025 ENSG00000204025.7 ENST00000371970 ENST00000371970.2 3 GENCODE basic tsl1 TF351966 UNCHARACTERIZED

ENSG00000204272 ENSG00000204272.12 ENST00000637096 ENST00000637096.1 4 GENCODE basic tsl3 TF353536 UNKNOWN

ENSG00000204272 ENSG00000204272.12 ENST00000374922 ENST00000374922.8 4 GENCODE basic tsl1 TF353536 UNKNOWN

ENSG00000204272 ENSG00000204272.12 ENST00000423617 ENST00000423617.2 4 GENCODE basic tsl2 TF353536 UNKNOWN

ENSG00000204272 ENSG00000204272.12 ENST00000451583 ENST00000451583.1 4 tsl5

ENSG00000204450 ENSG00000204450.8 ENST00000533122 ENST00000533122.3 1 GENCODE basic tsl1 (assigned to previous version 2) PTHR24103\_SF307 TRIPARTITE MOTIF CONTAINING

ENSG00000204505 ENSG00000204505.4 ENST00000415919 ENST00000415919.2 1 GENCODE basic tsl1 PTHR14224 PRAME FAMILY MEMBER

ENSG00000204583 ENSG00000204583.10 ENST00000544018 ENST00000544018.6 6 tsl5

ENSG00000204583 ENSG00000204583.10 ENST00000622710 ENST00000622710.4 6 tsl1

ENSG00000204583 ENSG00000204583.10 ENST00000376608 ENST00000376608.9 6 GENCODE basic tsl1 (assigned to previous version 8) PTHR10041\_SF6 LEUCINE RICH COLIPASE 1 PRECURSOR

ENSG00000204583 ENSG00000204583.10 ENST00000545517 ENST00000545517.2 6 tsl5

ENSG00000204583 ENSG00000204583.10 ENST00000616042 ENST00000616042.1 6 tsl5

ENSG00000204583 ENSG00000204583.10 ENST00000536100 ENST00000536100.1 6 tsl4

ENSG00000204805 ENSG00000204805.9 ENST00000605259 ENST00000605259.2 1 GENCODE basic tslNA (assigned to previous version 1)

ENSG00000204815 ENSG00000204815.10 ENST00000593239 ENST00000593239.5 4 tsl3 Primary ciliary dyskinesia PTHR23040\_SF1 TETRATRICOPEPTIDE REPEAT 25 TPR REPEAT 25

ENSG00000204815 ENSG00000204815.10 ENST00000593239 ENST00000593239.5 4 tsl3 CILIARY DYSKINESIA PRIMARY 35 PTHR23040\_SF1 TETRATRICOPEPTIDE REPEAT 25 TPR REPEAT 25

ENSG00000204815 ENSG00000204815.10 ENST00000593239 ENST00000593239.5 4 tsl3 Primary Ciliary Dyskinesia with Left-Right Body Asymmetry Randomization PTHR23040\_SF1 TETRATRICOPEPTIDE REPEAT 25 TPR REPEAT 25

ENSG00000204815 ENSG00000204815.10 ENST00000591658 ENST00000591658.5 4 tsl5 Primary ciliary dyskinesia PTHR23040\_SF1 TETRATRICOPEPTIDE REPEAT 25 TPR REPEAT 25

ENSG00000204815 ENSG00000204815.10 ENST00000591658 ENST00000591658.5 4 tsl5 CILIARY DYSKINESIA PRIMARY 35 PTHR23040\_SF1 TETRATRICOPEPTIDE REPEAT 25 TPR REPEAT 25

ENSG00000204815 ENSG00000204815.10 ENST00000591658 ENST00000591658.5 4 tsl5 Primary Ciliary Dyskinesia with Left-Right Body Asymmetry Randomization PTHR23040\_SF1 TETRATRICOPEPTIDE REPEAT 25 TPR REPEAT 25

ENSG00000204815 ENSG00000204815.10 ENST00000377540 ENST00000377540.6 4 GENCODE basic tsl1 (assigned to previous version 5) Primary ciliary dyskinesia PTHR23040\_SF1 TETRATRICOPEPTIDE REPEAT 25 TPR REPEAT 25

ENSG00000204815 ENSG00000204815.10 ENST00000377540 ENST00000377540.6 4 GENCODE basic tsl1 (assigned to previous version 5) CILIARY DYSKINESIA PRIMARY 35 PTHR23040\_SF1 TETRATRICOPEPTIDE REPEAT 25 TPR REPEAT 25

ENSG00000204815 ENSG00000204815.10 ENST00000377540 ENST00000377540.6 4 GENCODE basic tsl1 (assigned to previous version 5) Primary Ciliary Dyskinesia with Left-Right Body Asymmetry Randomization PTHR23040\_SF1 TETRATRICOPEPTIDE REPEAT 25 TPR REPEAT 25

ENSG00000204815 ENSG00000204815.10 ENST00000585530 ENST00000585530.1 4 tsl3 Primary ciliary dyskinesia

ENSG00000204815 ENSG00000204815.10 ENST00000585530 ENST00000585530.1 4 tsl3 CILIARY DYSKINESIA PRIMARY 35

ENSG00000204815 ENSG00000204815.10 ENST00000585530 ENST00000585530.1 4 tsl3 Primary Ciliary Dyskinesia with Left-Right Body Asymmetry Randomization

ENSG00000204936 ENSG00000204936.10 ENST00000618265 ENST00000618265.5 3 GENCODE basic tsl1 (assigned to previous version 4) PTHR16529 PRECURSOR

ENSG00000204936 ENSG00000204936.10 ENST00000607855 ENST00000607855.5 3 GENCODE basic tsl1 PTHR16529 PRECURSOR

ENSG00000204936 ENSG00000204936.10 ENST00000378012 ENST00000378012.3 3 tsl2 PTHR16529 PRECURSOR

ENSG00000205903 ENSG00000205903.7 ENST00000382252 ENST00000382252.6 3 GENCODE basic tsl5 (assigned to previous version 5) PTHR24408\_SF17 ZINC FINGER 316

ENSG00000205903 ENSG00000205903.7 ENST00000614588 ENST00000614588.1 3 tsl3

ENSG00000205903 ENSG00000205903.7 ENST00000427912 ENST00000427912.2 3 tsl3 PTHR24408\_SF17 ZINC FINGER 316

ENSG00000206072 ENSG00000206072.12 ENST00000489748 ENST00000489748.5 9 tsl2 PTHR11461\_SF137 SERPIN B11

ENSG00000206072 ENSG00000206072.12 ENST00000382749 ENST00000382749.9 9 GENCODE basic tsl1 PTHR11461\_SF137 SERPIN B11

ENSG00000206072 ENSG00000206072.12 ENST00000544088 ENST00000544088.5 9 GENCODE basic tsl2 PTHR11461\_SF137 SERPIN B11

ENSG00000206072 ENSG00000206072.12 ENST00000613567 ENST00000613567.4 9 tsl4

ENSG00000206072 ENSG00000206072.12 ENST00000610304 ENST00000610304.4 9 tsl1

ENSG00000206072 ENSG00000206072.12 ENST00000536691 ENST00000536691.5 9 tsl2 PTHR11461\_SF137 SERPIN B11

ENSG00000206072 ENSG00000206072.12 ENST00000467649 ENST00000467649.2 9 tsl1

ENSG00000206072 ENSG00000206072.12 ENST00000623262 ENST00000623262.3 9 GENCODE basic tsl1 PTHR11461\_SF137 SERPIN B11

ENSG00000206072 ENSG00000206072.12 ENST00000624518 ENST00000624518.1 9 GENCODE basic tsl1 PTHR11461\_SF137 SERPIN B11

ENSG00000206113 ENSG00000206113.10 ENST00000382849 ENST00000382849.2 7 tsl2

ENSG00000206113 ENSG00000206113.10 ENST00000635017 ENST00000635017.1 7 GENCODE basic tsl5 TF343192 CILIA AND FLAGELLA ASSOCIATED 99

ENSG00000206113 ENSG00000206113.10 ENST00000511731 ENST00000511731.5 7 tsl1

ENSG00000206113 ENSG00000206113.10 ENST00000514556 ENST00000514556.5 7 tsl5

ENSG00000206113 ENSG00000206113.10 ENST00000515732 ENST00000515732.1 7 tsl5

ENSG00000206113 ENSG00000206113.10 ENST00000506607 ENST00000506607.2 7 tsl5

ENSG00000206113 ENSG00000206113.10 ENST00000616117 ENST00000616117.5 7 GENCODE basic tsl5 TF343192 CILIA AND FLAGELLA ASSOCIATED 99

ENSG00000206140 ENSG00000206140.11 ENST00000456303 ENST00000456303.6 14 tsl2 (assigned to previous version 5)

ENSG00000206140 ENSG00000206140.11 ENST00000415764 ENST00000415764.5 14 tsl5

ENSG00000206140 ENSG00000206140.11 ENST00000432134 ENST00000432134.7 14 GENCODE basic tsl5 (assigned to previous version 6)

ENSG00000206140 ENSG00000206140.11 ENST00000449424 ENST00000449424.5 14 tsl5

ENSG00000206140 ENSG00000206140.11 ENST00000456153 ENST00000456153.5 14 tsl2

ENSG00000206140 ENSG00000206140.11 ENST00000453397 ENST00000453397.5 14 tsl5

ENSG00000206140 ENSG00000206140.11 ENST00000413877 ENST00000413877.5 14 tsl5

ENSG00000206140 ENSG00000206140.11 ENST00000417708 ENST00000417708.5 14 tsl5

ENSG00000206140 ENSG00000206140.11 ENST00000427147 ENST00000427147.5 14 tsl3

ENSG00000206140 ENSG00000206140.11 ENST00000425458 ENST00000425458.5 14 tsl3

ENSG00000206140 ENSG00000206140.11 ENST00000446867 ENST00000446867.5 14 tsl4

ENSG00000206140 ENSG00000206140.11 ENST00000621561 ENST00000621561.4 14 GENCODE basic tsl5 TF621592 TRANSMEMBRANE

ENSG00000206140 ENSG00000206140.11 ENST00000536718 ENST00000536718.2 14 GENCODE basic tsl5 TF621592 TRANSMEMBRANE

ENSG00000206140 ENSG00000206140.11 ENST00000545656 ENST00000545656.2 14 GENCODE basic tslNA

ENSG00000213793 ENSG00000213793.5 ENST00000638862 ENST00000638862.1 2 GENCODE basic tsl5 PTHR24407\_SF12 ZINC FINGER

ENSG00000213793 ENSG00000213793.5 ENST00000596623 ENST00000596623.2 2 tsl5

ENSG00000214279 ENSG00000214279.13 ENST00000482993 ENST00000482993.6 6 tsl2

ENSG00000214279 ENSG00000214279.13 ENST00000640237 ENST00000640237.1 6 GENCODE basic tsl5 PTHR19331\_SF15 SCAVENGER RECEPTOR CYSTEINE RICH DOMAIN CONTAINING SCART1 PRECURSOR

ENSG00000214279 ENSG00000214279.13 ENST00000463137 ENST00000463137.5 6 tsl2

ENSG00000214279 ENSG00000214279.13 ENST00000488261 ENST00000488261.6 6 tsl2

ENSG00000214279 ENSG00000214279.13 ENST00000462252 ENST00000462252.1 6 tsl2

ENSG00000214279 ENSG00000214279.13 ENST00000475114 ENST00000475114.1 6 tsl2

ENSG00000214336 ENSG00000214336.4 ENST00000428390 ENST00000428390.2 1 GENCODE basic tsl3 PTHR11829\_SF64 FORKHEAD BOX I3

ENSG00000214534 ENSG00000214534.5 ENST00000525199 ENST00000525199.1 1 GENCODE basic tsl2 PTHR24381\_SF18 ZINC FINGER

ENSG00000214652 ENSG00000214652.6 ENST00000456806 ENST00000456806.3 1 GENCODE basic tsl4 (assigned to previous version 2) PTHR24377\_SF279 ZINC FINGER

ENSG00000214654 ENSG00000214654.8 ENST00000464488 ENST00000464488.3 3 GENCODE basic tsl5 (assigned to previous version 2) PTHR11214\_SF29 UDP GLCNAC:BETAGAL BETA 1 3 N ACETYLGLUCOSAMINYLTRANSFERASE EC\_2.4.1.- UDP GLCNAC:BETAGAL BETA 1 3 N ACETYLGLUCOSAMINYLTRANSFERASE UDP GLCNAC:BETAGAL BETA 1 3 N ACETYLGLUCOSAMINYLTRANSFERASE 5 PSEUDOGENE

ENSG00000214654 ENSG00000214654.8 ENST00000645473 ENST00000645473.1 3

ENSG00000214654 ENSG00000214654.8 ENST00000437707 ENST00000437707.1 3 tsl2

ENSG00000214897 ENSG00000214897.4 ENST00000633844 ENST00000633844.1 2 GENCODE basic tsl3 PTHR23095 PARANEOPLASTIC ANTIGEN

ENSG00000214897 ENSG00000214897.4 ENST00000445091 ENST00000445091.2 2 GENCODE basic tsl2 PTHR23095 PARANEOPLASTIC ANTIGEN

ENSG00000214943 ENSG00000214943.4 ENST00000399285 ENST00000399285.4 1 GENCODE basic tsl1 PTHR24225 RECEPTOR

ENSG00000215113 ENSG00000215113.6 ENST00000542739 ENST00000542739.2 2 GENCODE basic tsl5 PTHR31866 UNCHARACTERIZED CXORF49

ENSG00000215113 ENSG00000215113.6 ENST00000440412 ENST00000440412.1 2 tsl2

ENSG00000215115 ENSG00000215115.6 ENST00000452468 ENST00000452468.1 2 tsl2

ENSG00000215115 ENSG00000215115.6 ENST00000535490 ENST00000535490.2 2 GENCODE basic tsl5 PTHR31866 UNCHARACTERIZED CXORF49

ENSG00000215148 ENSG00000215148.8 ENST00000399677 ENST00000399677.3 1 GENCODE basic tsl5 PTHR24256\_SF100 SERINE PROTEASE 41 PRECURSOR EC\_3.4.21.- TESTIS SERINE PROTEASE 1 TESSP 1

ENSG00000215174 ENSG00000215174.2 ENST00000434992 ENST00000434992.1 1 GENCODE basic tslNA

ENSG00000215817 ENSG00000215817.7 ENST00000651890 ENST00000651890.1 2 GENCODE basic PTHR15725 ZINC FINGER CCCH DOMAIN CONTAINING 11A

ENSG00000215817 ENSG00000215817.7 ENST00000367211 ENST00000367211.6 2 GENCODE basic tsl5 (assigned to previous version 4) PTHR15725 ZINC FINGER CCCH DOMAIN CONTAINING 11A

ENSG00000218305 ENSG00000218305.4 ENST00000650262 ENST00000650262.1 2 GENCODE basic PTHR23339\_SF53 DUAL SPECIFICITY PHOSPHATASE EC\_3.1.3.16 EC\_3.1.3.- 48 CDC14 CELL DIVISION CYCLE 14 HOMOLOG

ENSG00000218305 ENSG00000218305.4 ENST00000428251 ENST00000428251.2 2 GENCODE basic tslNA (assigned to previous version 1) PTHR23339\_SF53 DUAL SPECIFICITY PHOSPHATASE EC\_3.1.3.16 EC\_3.1.3.- 48 CDC14 CELL DIVISION CYCLE 14 HOMOLOG

ENSG00000220948 ENSG00000220948.5 ENST00000534741 ENST00000534741.2 2 GENCODE basic tslNA (assigned to previous version 1) PTHR24103\_SF302 TRIPARTITE MOTIF CONTAINING 51 SPRY DOMAIN CONTAINING 5

ENSG00000220948 ENSG00000220948.5 ENST00000649162 ENST00000649162.1 2 GENCODE basic PTHR24103\_SF302 TRIPARTITE MOTIF CONTAINING 51 SPRY DOMAIN CONTAINING 5

ENSG00000221878 ENSG00000221878.12 ENST00000599226 ENST00000599226.2 6 tsl2

ENSG00000221878 ENSG00000221878.12 ENST00000406070 ENST00000406070.6 6 GENCODE basic tsl1 PTHR19955 CARCINOEMBRYONIC ANTIGEN RELATED CELL ADHESION MOLECULE PRECURSOR

ENSG00000221878 ENSG00000221878.12 ENST00000623675 ENST00000623675.3 6 GENCODE basic tsl1 PTHR19955 CARCINOEMBRYONIC ANTIGEN RELATED CELL ADHESION MOLECULE PRECURSOR

ENSG00000221878 ENSG00000221878.12 ENST00000446844 ENST00000446844.3 6 GENCODE basic tsl5 PTHR19955 CARCINOEMBRYONIC ANTIGEN RELATED CELL ADHESION MOLECULE PRECURSOR

ENSG00000221878 ENSG00000221878.12 ENST00000599620 ENST00000599620.1 6 tsl2

ENSG00000221878 ENSG00000221878.12 ENST00000471557 ENST00000471557.1 6 tsl1

ENSG00000223573 ENSG00000223573.7 ENST00000448587 ENST00000448587.5 5 GENCODE basic tsl1

ENSG00000223573 ENSG00000223573.7 ENST00000646675 ENST00000646675.1 5

ENSG00000223573 ENSG00000223573.7 ENST00000590789 ENST00000590789.1 5 tsl1

ENSG00000223573 ENSG00000223573.7 ENST00000587632 ENST00000587632.1 5 tsl3

ENSG00000223573 ENSG00000223573.7 ENST00000646160 ENST00000646160.1 5 GENCODE basic

ENSG00000223591 ENSG00000223591.5 ENST00000602548 ENST00000602548.2 1 GENCODE basic tslNA TF313636 CENTROMERE V CENTROMERE V PSEUDOGENE

ENSG00000223614 ENSG00000223614.5 ENST00000429565 ENST00000429565.4 1 GENCODE basic tsl5 PTHR24377\_SF153 ZINC FINGER

ENSG00000223658 ENSG00000223658.8 ENST00000475092 ENST00000475092.4 1 GENCODE basic tslNA (assigned to previous version 3) PTHR23033\_SF2 C1GALT1 SPECIFIC CHAPERONE 1 CORE 1 BETA1 3 GALACTOSYLTRANSFERASE 2 C1GAL T2 C1GALT2 CORE 1 BETA3 GAL T2 CORE 1 BETA3 GALACTOSYLTRANSFERASE SPECIFIC MOLECULAR CHAPERONE

ENSG00000224107 ENSG00000224107.5 ENST00000426364 ENST00000426364.5 2 GENCODE basic tsl3

ENSG00000224107 ENSG00000224107.5 ENST00000423661 ENST00000423661.1 2 GENCODE basic tsl1

ENSG00000224109 ENSG00000224109.3 ENST00000417339 ENST00000417339.3 1 GENCODE basic tslNA (assigned to previous version 2) TF313636 CENTROMERE V CENTROMERE V PSEUDOGENE

ENSG00000224440 ENSG00000224440.1 ENST00000458472 ENST00000458472.1 1 GENCODE basic tsl2

ENSG00000224578 ENSG00000224578.5 ENST00000565308 ENST00000565308.2 2 GENCODE basic tslNA (assigned to previous version 1) PTHR24012\_SF309 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 HNRNP A1 HELIX DESTABILIZING SINGLE STRAND BINDING HNRNP CORE A1 [CONTAINS HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 N TERMINALLY PROCESSED]

ENSG00000224578 ENSG00000224578.5 ENST00000562726 ENST00000562726.1 2 tslNA

ENSG00000224960 ENSG00000224960.4 ENST00000412172 ENST00000412172.3 1 GENCODE basic tslNA PTHR23318 SERINE/THREONINE PHOSPHATASE 4 REGULATORY SUBUNIT 3

ENSG00000225110 ENSG00000225110.2 ENST00000436629 ENST00000436629.2 1 GENCODE basic tsl5 PTHR23095 PARANEOPLASTIC ANTIGEN

ENSG00000225180 ENSG00000225180.7 ENST00000414089 ENST00000414089.5 3 tsl2

ENSG00000225180 ENSG00000225180.7 ENST00000637878 ENST00000637878.1 3 GENCODE basic tsl5

ENSG00000225180 ENSG00000225180.7 ENST00000571031 ENST00000571031.1 3 tsl1

ENSG00000225327 ENSG00000225327.3 ENST00000530484 ENST00000530484.1 1 GENCODE basic tslNA PTHR24006\_SF382 UBIQUITIN CARBOXYL TERMINAL HYDROLASE 17

ENSG00000225396 ENSG00000225396.5 ENST00000419795 ENST00000419795.5 2 GENCODE basic tsl5 TF354057 UNKNOWN

ENSG00000225396 ENSG00000225396.5 ENST00000458170 ENST00000458170.1 2 GENCODE basic tsl5 TF354057 UNKNOWN

ENSG00000225528 ENSG00000225528.3 ENST00000424496 ENST00000424496.2 1 GENCODE basic tsl5 TF621990 AMBIGUOUS

ENSG00000225805 ENSG00000225805.4 ENST00000530210 ENST00000530210.1 1 GENCODE basic tsl1 PTHR15001\_SF18 BETA DEFENSIN

ENSG00000225973 ENSG00000225973.4 ENST00000436697 ENST00000436697.3 3 GENCODE basic tsl2 (assigned to previous version 2)

ENSG00000225973 ENSG00000225973.4 ENST00000567948 ENST00000567948.1 3 GENCODE basic tsl2

ENSG00000225973 ENSG00000225973.4 ENST00000565225 ENST00000565225.1 3 tsl3

ENSG00000226430 ENSG00000226430.6 ENST00000530447 ENST00000530447.4 1 GENCODE basic tslNA PTHR24006\_SF382 UBIQUITIN CARBOXYL TERMINAL HYDROLASE 17

ENSG00000226690 ENSG00000226690.8 ENST00000641054 ENST00000641054.1 6

ENSG00000226690 ENSG00000226690.8 ENST00000635746 ENST00000635746.1 6 GENCODE basic tsl5

ENSG00000226690 ENSG00000226690.8 ENST00000418428 ENST00000418428.6 6 tsl5

ENSG00000226690 ENSG00000226690.8 ENST00000443874 ENST00000443874.1 6 tsl3

ENSG00000226690 ENSG00000226690.8 ENST00000424453 ENST00000424453.1 6 tsl4

ENSG00000226690 ENSG00000226690.8 ENST00000636804 ENST00000636804.1 6 GENCODE basic tsl5

ENSG00000226792 ENSG00000226792.7 ENST00000563710 ENST00000563710.6 4 GENCODE basic tsl5 TF658032 UNCHARACTERIZED

ENSG00000226792 ENSG00000226792.7 ENST00000636098 ENST00000636098.1 4 tsl5

ENSG00000226792 ENSG00000226792.7 ENST00000433280 ENST00000433280.6 4 tsl3

ENSG00000226792 ENSG00000226792.7 ENST00000569306 ENST00000569306.1 4 tsl3

ENSG00000227877 ENSG00000227877.6 ENST00000628562 ENST00000628562.1 11 tsl2

ENSG00000227877 ENSG00000227877.6 ENST00000430431 ENST00000430431.5 11 GENCODE basic tsl2

ENSG00000227877 ENSG00000227877.6 ENST00000414264 ENST00000414264.5 11 GENCODE basic tsl1

ENSG00000227877 ENSG00000227877.6 ENST00000594536 ENST00000594536.5 11 tsl5

ENSG00000227877 ENSG00000227877.6 ENST00000598384 ENST00000598384.5 11 tsl3

ENSG00000227877 ENSG00000227877.6 ENST00000600486 ENST00000600486.5 11 tsl2

ENSG00000227877 ENSG00000227877.6 ENST00000602051 ENST00000602051.5 11 tsl5

ENSG00000227877 ENSG00000227877.6 ENST00000599605 ENST00000599605.1 11 tsl5

ENSG00000227877 ENSG00000227877.6 ENST00000612853 ENST00000612853.1 11 tsl5

ENSG00000227877 ENSG00000227877.6 ENST00000621566 ENST00000621566.1 11 tsl5

ENSG00000227877 ENSG00000227877.6 ENST00000629130 ENST00000629130.1 11 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000450072 ENST00000450072.5 58 tsl4

ENSG00000228486 ENSG00000228486.10 ENST00000604793 ENST00000604793.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000605282 ENST00000605282.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000603172 ENST00000603172.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000604986 ENST00000604986.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000605866 ENST00000605866.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000609622 ENST00000609622.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000609604 ENST00000609604.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000609703 ENST00000609703.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000605017 ENST00000605017.1 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000609295 ENST00000609295.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000631224 ENST00000631224.2 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000608777 ENST00000608777.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000609004 ENST00000609004.1 58 tsl4

ENSG00000228486 ENSG00000228486.10 ENST00000615478 ENST00000615478.4 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000601127 ENST00000601127.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000428157 ENST00000428157.1 58 tsl4

ENSG00000228486 ENSG00000228486.10 ENST00000599501 ENST00000599501.6 58 GENCODE basic tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000627399 ENST00000627399.3 58 GENCODE basic tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000451384 ENST00000451384.6 58 tsl1

ENSG00000228486 ENSG00000228486.10 ENST00000458149 ENST00000458149.7 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000597941 ENST00000597941.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000596529 ENST00000596529.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000598144 ENST00000598144.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000599015 ENST00000599015.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000629840 ENST00000629840.2 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000601499 ENST00000601499.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000600331 ENST00000600331.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000598824 ENST00000598824.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000601580 ENST00000601580.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000596069 ENST00000596069.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000627284 ENST00000627284.2 58 GENCODE basic tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000595492 ENST00000595492.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000595588 ENST00000595588.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000599435 ENST00000599435.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000597654 ENST00000597654.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000598737 ENST00000598737.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000601509 ENST00000601509.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000596356 ENST00000596356.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000631206 ENST00000631206.2 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000600606 ENST00000600606.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000627012 ENST00000627012.2 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000628992 ENST00000628992.2 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000629956 ENST00000629956.2 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000609418 ENST00000609418.1 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000630892 ENST00000630892.3 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000599959 ENST00000599959.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000628434 ENST00000628434.1 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000615201 ENST00000615201.4 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000594273 ENST00000594273.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000627137 ENST00000627137.2 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000445382 ENST00000445382.6 58 tsl4

ENSG00000228486 ENSG00000228486.10 ENST00000603835 ENST00000603835.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000599666 ENST00000599666.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000630068 ENST00000630068.2 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000596740 ENST00000596740.5 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000605331 ENST00000605331.3 58 tsl5

ENSG00000228486 ENSG00000228486.10 ENST00000628093 ENST00000628093.1 58 tsl5

ENSG00000229637 ENSG00000229637.4 ENST00000422730 ENST00000422730.4 2 GENCODE basic tsl1 (assigned to previous version 3)

ENSG00000229637 ENSG00000229637.4 ENST00000432056 ENST00000432056.1 2 GENCODE basic tsl2

ENSG00000229674 ENSG00000229674.2 ENST00000448797 ENST00000448797.2 1 GENCODE basic tslNA (assigned to previous version 1) PTHR23430\_SF11 HISTONE H2A 1 H2A L HISTONE H2A 1

ENSG00000229894 ENSG00000229894.4 ENST00000505354 ENST00000505354.2 1 GENCODE basic tslNA PTHR10196 GLYCEROL KINASE GK GLYCEROKINASE EC\_2.7.1.30 ATP:GLYCEROL 3 PHOSPHOTRANSFERASE

ENSG00000230054 ENSG00000230054.3 ENST00000423632 ENST00000423632.3 2 GENCODE basic tsl2 (assigned to previous version 2)

ENSG00000230054 ENSG00000230054.3 ENST00000415101 ENST00000415101.1 2 tsl3

ENSG00000230124 ENSG00000230124.8 ENST00000415414 ENST00000415414.5 8 tsl2 Autosomal Recessive Mental Retardation

ENSG00000230124 ENSG00000230124.8 ENST00000645415 ENST00000645415.1 8 Autosomal Recessive Mental Retardation PTHR24119 ACYL COA BINDING DOMAIN CONTAINING 6

ENSG00000230124 ENSG00000230124.8 ENST00000642319 ENST00000642319.1 8 GENCODE basic Autosomal Recessive Mental Retardation PTHR24119 ACYL COA BINDING DOMAIN CONTAINING 6

ENSG00000230124 ENSG00000230124.8 ENST00000440959 ENST00000440959.2 8 tsl2 Autosomal Recessive Mental Retardation

ENSG00000230124 ENSG00000230124.8 ENST00000622400 ENST00000622400.1 8 tsl3 Autosomal Recessive Mental Retardation

ENSG00000230124 ENSG00000230124.8 ENST00000496993 ENST00000496993.5 8 tsl5 Autosomal Recessive Mental Retardation

ENSG00000230124 ENSG00000230124.8 ENST00000475338 ENST00000475338.2 8 tsl5 Autosomal Recessive Mental Retardation

ENSG00000230124 ENSG00000230124.8 ENST00000367595 ENST00000367595.4 8 GENCODE basic tsl1 (assigned to previous version 3) Autosomal Recessive Mental Retardation PTHR24119 ACYL COA BINDING DOMAIN CONTAINING 6

ENSG00000230257 ENSG00000230257.4 ENST00000420058 ENST00000420058.1 2 tsl1

ENSG00000230257 ENSG00000230257.4 ENST00000652215 ENST00000652215.1 2 GENCODE basic

ENSG00000230268 ENSG00000230268.3 ENST00000473520 ENST00000473520.1 1 GENCODE basic tslNA PTHR20383 RNA POLYMERASE II SUBUNIT A C TERMINAL DOMAIN PHOSPHATASE SSU72 CTD PHOSPHATASE SSU72 EC\_3.1.3.16 SUPPRESSOR OF SUA7 2 HOMOLOG

ENSG00000230358 ENSG00000230358.4 ENST00000424157 ENST00000424157.3 2 GENCODE basic tslNA (assigned to previous version 2) PTHR31156 SPEEDY

ENSG00000230358 ENSG00000230358.4 ENST00000413323 ENST00000413323.2 2 GENCODE basic tslNA (assigned to previous version 1) PTHR31156 SPEEDY

ENSG00000230549 ENSG00000230549.3 ENST00000529559 ENST00000529559.1 1 GENCODE basic tslNA PTHR24006\_SF382 UBIQUITIN CARBOXYL TERMINAL HYDROLASE 17

ENSG00000230561 ENSG00000230561.4 ENST00000514853 ENST00000514853.3 3 GENCODE basic tsl5 TF634832 COILED COIL DOMAIN CONTAINING 192

ENSG00000230561 ENSG00000230561.4 ENST00000506670 ENST00000506670.1 3 tsl3

ENSG00000230561 ENSG00000230561.4 ENST00000513708 ENST00000513708.1 3 tsl3

ENSG00000230601 ENSG00000230601.6 ENST00000436752 ENST00000436752.2 2 GENCODE basic tsl5

ENSG00000230601 ENSG00000230601.6 ENST00000612244 ENST00000612244.5 2 GENCODE basic tsl3

ENSG00000230626 ENSG00000230626.4 ENST00000467614 ENST00000467614.2 1 GENCODE basic tsl3 PTHR24360\_SF15 DUAL SPECIFICITY MITOGEN ACTIVATED KINASE KINASE 1 MAP KINASE KINASE 1 MAPKK 1 EC\_2.7.12.2 ERK ACTIVATOR KINASE 1 MAPK/ERK KINASE 1

ENSG00000230667 ENSG00000230667.5 ENST00000485873 ENST00000485873.2 2 GENCODE basic tslNA PTHR11875\_SF58 SET PHOSPHATASE 2A INHIBITOR I2PP2A I 2PP2A TEMPLATE ACTIVATING FACTOR I TAF I

ENSG00000230667 ENSG00000230667.5 ENST00000596516 ENST00000596516.2 2 GENCODE basic tslNA PTHR11875\_SF58 SET PHOSPHATASE 2A INHIBITOR I2PP2A I 2PP2A TEMPLATE ACTIVATING FACTOR I TAF I

ENSG00000231767 ENSG00000231767.4 ENST00000647225 ENST00000647225.1 2 GENCODE basic PTHR10666\_SF76 UBIQUITIN 40S RIBOSOMAL S27A PRECURSOR UBIQUITIN CARBOXYL EXTENSION 80 [CONTAINS UBIQUITIN; 40S RIBOSOMAL

ENSG00000231767 ENSG00000231767.4 ENST00000443181 ENST00000443181.2 2 GENCODE basic tslNA (assigned to previous version 1) PTHR10666\_SF76 UBIQUITIN 40S RIBOSOMAL S27A PRECURSOR UBIQUITIN CARBOXYL EXTENSION 80 [CONTAINS UBIQUITIN; 40S RIBOSOMAL

ENSG00000231989 ENSG00000231989.4 ENST00000522232 ENST00000522232.2 1 GENCODE basic tslNA PTHR12398\_SF22 PHOSPHATASE INHIBITOR 2 2

ENSG00000232030 ENSG00000232030.3 ENST00000416929 ENST00000416929.2 1 GENCODE basic tslNA PTHR11736\_SF67 MELANOMA ASSOCIATED ANTIGEN B6 CANCER/TESTIS ANTIGEN 3 4 CT3 4 MAGE B6 ANTIGEN

ENSG00000232113 ENSG00000232113.3 ENST00000417563 ENST00000417563.3 1 GENCODE basic tsl2 (assigned to previous version 2) TF638463 TESTIS EXPRESSED 50 PRECURSOR

ENSG00000232388 ENSG00000232388.4 ENST00000435844 ENST00000435844.3 3 GENCODE basic tsl1 TF353991 SMALL INTEGRAL MEMBRANE 26

ENSG00000232388 ENSG00000232388.4 ENST00000411646 ENST00000411646.1 3 GENCODE basic tsl1 TF353991 SMALL INTEGRAL MEMBRANE 26

ENSG00000232388 ENSG00000232388.4 ENST00000608034 ENST00000608034.1 3 GENCODE basic tsl3

ENSG00000232593 ENSG00000232593.7 ENST00000605526 ENST00000605526.5 5 tsl4

ENSG00000232593 ENSG00000232593.7 ENST00000604062 ENST00000604062.6 5 GENCODE basic tsl5

ENSG00000232593 ENSG00000232593.7 ENST00000603385 ENST00000603385.2 5 tsl4

ENSG00000232593 ENSG00000232593.7 ENST00000366185 ENST00000366185.2 5 tsl3

ENSG00000232593 ENSG00000232593.7 ENST00000604849 ENST00000604849.1 5 tsl5

ENSG00000233087 ENSG00000233087.7 ENST00000623617 ENST00000623617.2 1 GENCODE basic tslNA PTHR24073\_SF373 RAS RELATED RAB RAB6

ENSG00000233757 ENSG00000233757.6 ENST00000425953 ENST00000425953.5 3 GENCODE basic tsl5 PTHR24377\_SF268 ZINC FINGER

ENSG00000233757 ENSG00000233757.6 ENST00000614286 ENST00000614286.1 3 tsl3

ENSG00000233757 ENSG00000233757.6 ENST00000610384 ENST00000610384.1 3 tsl3

ENSG00000233802 ENSG00000233802.8 ENST00000526396 ENST00000526396.3 2 GENCODE basic tsl5 PTHR24103\_SF310 TRIPARTITE MOTIF CONTAINING

ENSG00000233802 ENSG00000233802.8 ENST00000623787 ENST00000623787.3 2 GENCODE basic tsl5 PTHR24103\_SF310 TRIPARTITE MOTIF CONTAINING

ENSG00000233954 ENSG00000233954.6 ENST00000483273 ENST00000483273.2 1 GENCODE basic tslNA PTHR15336\_SF0 CYTOCHROME B C1 COMPLEX SUBUNIT 6 MITOCHONDRIAL PRECURSOR COMPLEX III SUBUNIT 6 COMPLEX III SUBUNIT VIII CYTOCHROME C1 NON HEME 11 KDA MITOCHONDRIAL HINGE UBIQUINOL CYTOCHROME C REDUCTASE COMPLEX 11 KDA

ENSG00000234289 ENSG00000234289.5 ENST00000599962 ENST00000599962.1 1 GENCODE basic tslNA PTHR23428 HISTONE H2B

ENSG00000234616 ENSG00000234616.8 ENST00000614134 ENST00000614134.1 11 GENCODE basic tsl1 Childhood absence epilepsy PTHR19303\_SF191 JERKY

ENSG00000234616 ENSG00000234616.8 ENST00000614134 ENST00000614134.1 11 GENCODE basic tsl1 Juvenile myoclonic epilepsy PTHR19303\_SF191 JERKY

ENSG00000234616 ENSG00000234616.8 ENST00000615982 ENST00000615982.4 11 GENCODE basic tsl1 Childhood absence epilepsy PTHR19303\_SF191 JERKY

ENSG00000234616 ENSG00000234616.8 ENST00000615982 ENST00000615982.4 11 GENCODE basic tsl1 Juvenile myoclonic epilepsy PTHR19303\_SF191 JERKY

ENSG00000234616 ENSG00000234616.8 ENST00000571961 ENST00000571961.7 11 GENCODE basic tsl1 Childhood absence epilepsy PTHR19303\_SF191 JERKY

ENSG00000234616 ENSG00000234616.8 ENST00000571961 ENST00000571961.7 11 GENCODE basic tsl1 Juvenile myoclonic epilepsy PTHR19303\_SF191 JERKY

ENSG00000234616 ENSG00000234616.8 ENST00000506774 ENST00000506774.1 11 tsl3 Childhood absence epilepsy

ENSG00000234616 ENSG00000234616.8 ENST00000506774 ENST00000506774.1 11 tsl3 Juvenile myoclonic epilepsy

ENSG00000234616 ENSG00000234616.8 ENST00000503272 ENST00000503272.1 11 tsl4 Childhood absence epilepsy

ENSG00000234616 ENSG00000234616.8 ENST00000503272 ENST00000503272.1 11 tsl4 Juvenile myoclonic epilepsy

ENSG00000234616 ENSG00000234616.8 ENST00000591357 ENST00000591357.5 11 tsl4 Childhood absence epilepsy

ENSG00000234616 ENSG00000234616.8 ENST00000591357 ENST00000591357.5 11 tsl4 Juvenile myoclonic epilepsy

ENSG00000234616 ENSG00000234616.8 ENST00000591180 ENST00000591180.5 11 tsl3 Childhood absence epilepsy

ENSG00000234616 ENSG00000234616.8 ENST00000591180 ENST00000591180.5 11 tsl3 Juvenile myoclonic epilepsy

ENSG00000234616 ENSG00000234616.8 ENST00000587883 ENST00000587883.5 11 tsl2 Childhood absence epilepsy

ENSG00000234616 ENSG00000234616.8 ENST00000587883 ENST00000587883.5 11 tsl2 Juvenile myoclonic epilepsy

ENSG00000234616 ENSG00000234616.8 ENST00000585503 ENST00000585503.1 11 tsl2 Childhood absence epilepsy

ENSG00000234616 ENSG00000234616.8 ENST00000585503 ENST00000585503.1 11 tsl2 Juvenile myoclonic epilepsy

ENSG00000234616 ENSG00000234616.8 ENST00000587499 ENST00000587499.1 11 tsl3 Childhood absence epilepsy

ENSG00000234616 ENSG00000234616.8 ENST00000587499 ENST00000587499.1 11 tsl3 Juvenile myoclonic epilepsy

ENSG00000234616 ENSG00000234616.8 ENST00000612905 ENST00000612905.1 11 GENCODE basic tsl2 Childhood absence epilepsy PTHR19303\_SF191 JERKY

ENSG00000234616 ENSG00000234616.8 ENST00000612905 ENST00000612905.1 11 GENCODE basic tsl2 Juvenile myoclonic epilepsy PTHR19303\_SF191 JERKY

ENSG00000234828 ENSG00000234828.8 ENST00000636793 ENST00000636793.1 6 GENCODE basic tsl5 TF616291 UNCHARACTERIZED

ENSG00000234828 ENSG00000234828.8 ENST00000636414 ENST00000636414.1 6 GENCODE basic tsl5 TF616291 UNCHARACTERIZED

ENSG00000234828 ENSG00000234828.8 ENST00000511993 ENST00000511993.5 6 tsl1

ENSG00000234828 ENSG00000234828.8 ENST00000508106 ENST00000508106.5 6 tsl5

ENSG00000234828 ENSG00000234828.8 ENST00000502345 ENST00000502345.5 6 tsl4

ENSG00000234828 ENSG00000234828.8 ENST00000510975 ENST00000510975.1 6 tsl3

ENSG00000235106 ENSG00000235106.10 ENST00000603928 ENST00000603928.3 7 GENCODE basic tsl2 (assigned to previous version 2)

ENSG00000235106 ENSG00000235106.10 ENST00000550853 ENST00000550853.1 7 tsl2

ENSG00000235106 ENSG00000235106.10 ENST00000432807 ENST00000432807.1 7 GENCODE basic tsl2

ENSG00000235106 ENSG00000235106.10 ENST00000552018 ENST00000552018.1 7 tsl3

ENSG00000235106 ENSG00000235106.10 ENST00000624381 ENST00000624381.1 7 tsl5

ENSG00000235106 ENSG00000235106.10 ENST00000605164 ENST00000605164.1 7 tsl3

ENSG00000235106 ENSG00000235106.10 ENST00000599836 ENST00000599836.1 7 GENCODE basic tslNA

ENSG00000235118 ENSG00000235118.8 ENST00000441223 ENST00000441223.3 2 GENCODE basic tsl2 (assigned to previous version 2) TF343538 UNKNOWN

ENSG00000235118 ENSG00000235118.8 ENST00000453816 ENST00000453816.1 2 tsl3

ENSG00000235272 ENSG00000235272.2 ENST00000444122 ENST00000444122.2 1 GENCODE basic tslNA (assigned to previous version 1) TF607727 RNA GUANINE N7 METHYLTRANSFERASE ACTIVATING SUBUNIT FA RNA GUANINE 7 METHYLTRANSFERASE ACTIVATING SUBUNIT RNMT ACTIVATING CAP METHYLATING SUBUNIT RNMT ACTIVATING CAP METHYLTRANSFERASE SUBUNIT RNMT ACTIVATING MINI RAM

ENSG00000235387 ENSG00000235387.4 ENST00000443779 ENST00000443779.2 5 GENCODE basic tsl2 (assigned to previous version 1)

ENSG00000235387 ENSG00000235387.4 ENST00000638062 ENST00000638062.1 5 tsl5

ENSG00000235387 ENSG00000235387.4 ENST00000636776 ENST00000636776.1 5 GENCODE basic tslNA

ENSG00000235387 ENSG00000235387.4 ENST00000650257 ENST00000650257.1 5

ENSG00000235387 ENSG00000235387.4 ENST00000433838 ENST00000433838.1 5 tsl3

ENSG00000235453 ENSG00000235453.10 ENST00000453396 ENST00000453396.5 6 GENCODE basic tsl3

ENSG00000235453 ENSG00000235453.10 ENST00000450093 ENST00000450093.2 6 tsl2

ENSG00000235453 ENSG00000235453.10 ENST00000451672 ENST00000451672.2 6 GENCODE basic tslNA (assigned to previous version 1)

ENSG00000235453 ENSG00000235453.10 ENST00000644531 ENST00000644531.1 6 GENCODE basic

ENSG00000235453 ENSG00000235453.10 ENST00000425533 ENST00000425533.1 6 tsl2

ENSG00000235453 ENSG00000235453.10 ENST00000635960 ENST00000635960.1 6 tsl5

ENSG00000235699 ENSG00000235699.2 ENST00000438525 ENST00000438525.2 1 GENCODE basic tsl2

ENSG00000235710 ENSG00000235710.5 ENST00000425559 ENST00000425559.1 2 tsl3

ENSG00000235710 ENSG00000235710.5 ENST00000651173 ENST00000651173.1 2 GENCODE basic

ENSG00000236125 ENSG00000236125.3 ENST00000526929 ENST00000526929.1 1 GENCODE basic tslNA PTHR24006\_SF382 UBIQUITIN CARBOXYL TERMINAL HYDROLASE 17

ENSG00000236383 ENSG00000236383.8 ENST00000427995 ENST00000427995.5 16 tsl3

ENSG00000236383 ENSG00000236383.8 ENST00000593624 ENST00000593624.5 16 tsl5

ENSG00000236383 ENSG00000236383.8 ENST00000595400 ENST00000595400.5 16 tsl5

ENSG00000236383 ENSG00000236383.8 ENST00000433702 ENST00000433702.7 16 tsl5

ENSG00000236383 ENSG00000236383.8 ENST00000598568 ENST00000598568.5 16 tsl5

ENSG00000236383 ENSG00000236383.8 ENST00000597948 ENST00000597948.5 16 tsl5

ENSG00000236383 ENSG00000236383.8 ENST00000598128 ENST00000598128.5 16 tsl5

ENSG00000236383 ENSG00000236383.8 ENST00000599491 ENST00000599491.5 16 tsl5

ENSG00000236383 ENSG00000236383.8 ENST00000636331 ENST00000636331.1 16 GENCODE basic tsl5

ENSG00000236383 ENSG00000236383.8 ENST00000594691 ENST00000594691.6 16 GENCODE basic tsl5

ENSG00000236383 ENSG00000236383.8 ENST00000598934 ENST00000598934.5 16 tsl5

ENSG00000236383 ENSG00000236383.8 ENST00000594857 ENST00000594857.1 16 tsl5

ENSG00000236383 ENSG00000236383.8 ENST00000600764 ENST00000600764.2 16 tsl5

ENSG00000236383 ENSG00000236383.8 ENST00000608223 ENST00000608223.6 16 tsl5

ENSG00000236383 ENSG00000236383.8 ENST00000615433 ENST00000615433.2 16 tsl5

ENSG00000236383 ENSG00000236383.8 ENST00000619529 ENST00000619529.1 16 tsl5

ENSG00000236396 ENSG00000236396.8 ENST00000588001 ENST00000588001.2 1 GENCODE basic tslNA PTHR22911 SOLUTE CARRIER FAMILY 35 MEMBER ACYL MALONYL CONDENSING ENZYME 1

ENSG00000236444 ENSG00000236444.4 ENST00000638137 ENST00000638137.1 3 GENCODE basic tsl5 PTHR24068\_SF28 UBIQUITIN CONJUGATING ENZYME E2 L3 EC\_2.3.2.23 E2 UBIQUITIN CONJUGATING ENZYME L3 UBIQUITIN CARRIER L3 UBIQUITIN LIGASE L3

ENSG00000236444 ENSG00000236444.4 ENST00000635918 ENST00000635918.1 3 GENCODE basic tsl5 PTHR24068\_SF28 UBIQUITIN CONJUGATING ENZYME E2 L3 EC\_2.3.2.23 E2 UBIQUITIN CONJUGATING ENZYME L3 UBIQUITIN CARRIER L3 UBIQUITIN LIGASE L3

ENSG00000236444 ENSG00000236444.4 ENST00000436446 ENST00000436446.1 3 GENCODE basic tslNA PTHR24068\_SF28 UBIQUITIN CONJUGATING ENZYME E2 L3 EC\_2.3.2.23 E2 UBIQUITIN CONJUGATING ENZYME L3 UBIQUITIN CARRIER L3 UBIQUITIN LIGASE L3

ENSG00000236543 ENSG00000236543.2 ENST00000637501 ENST00000637501.1 2 tsl5

ENSG00000236543 ENSG00000236543.2 ENST00000430816 ENST00000430816.2 2 GENCODE basic tsl5

ENSG00000236782 ENSG00000236782.7 ENST00000448923 ENST00000448923.2 6 GENCODE basic tsl2

ENSG00000236782 ENSG00000236782.7 ENST00000407889 ENST00000407889.6 6 tsl3

ENSG00000236782 ENSG00000236782.7 ENST00000414762 ENST00000414762.1 6 tsl3

ENSG00000236782 ENSG00000236782.7 ENST00000444682 ENST00000444682.1 6 tsl3

ENSG00000236782 ENSG00000236782.7 ENST00000433939 ENST00000433939.6 6 GENCODE basic tsl3

ENSG00000236782 ENSG00000236782.7 ENST00000648649 ENST00000648649.1 6 GENCODE basic

ENSG00000237038 ENSG00000237038.5 ENST00000527080 ENST00000527080.1 1 GENCODE basic tslNA PTHR24006\_SF382 UBIQUITIN CARBOXYL TERMINAL HYDROLASE 17

ENSG00000237110 ENSG00000237110.2 ENST00000434551 ENST00000434551.2 1 GENCODE basic tslNA PTHR24249\_SF79 TRACE AMINE ASSOCIATED RECEPTOR 9 TAR 9 TRACE AMINE RECEPTOR 9 TRACE AMINE RECEPTOR 3 TAR 3

ENSG00000237378 ENSG00000237378.3 ENST00000611641 ENST00000611641.1 2 GENCODE basic tslNA

ENSG00000237378 ENSG00000237378.3 ENST00000418943 ENST00000418943.1 2 tsl2

ENSG00000237489 ENSG00000237489.5 ENST00000643056 ENST00000643056.1 4

ENSG00000237489 ENSG00000237489.5 ENST00000637128 ENST00000637128.2 4 GENCODE basic tsl5 (assigned to previous version 1)

ENSG00000237489 ENSG00000237489.5 ENST00000647406 ENST00000647406.1 4

ENSG00000237489 ENSG00000237489.5 ENST00000456581 ENST00000456581.1 4 tsl2

ENSG00000237700 ENSG00000237700.2 ENST00000437300 ENST00000437300.2 1 GENCODE basic tsl1 PTHR14224 PRAME FAMILY MEMBER

ENSG00000237988 ENSG00000237988.5 ENST00000641137 ENST00000641137.1 3 GENCODE basic PTHR26453 OLFACTORY RECEPTOR OLFACTORY RECEPTOR

ENSG00000237988 ENSG00000237988.5 ENST00000642037 ENST00000642037.1 3

ENSG00000237988 ENSG00000237988.5 ENST00000641730 ENST00000641730.1 3

ENSG00000238205 ENSG00000238205.3 ENST00000423387 ENST00000423387.3 1 GENCODE basic tslNA PTHR14154\_SF9 MITOCHONDRIAL PYRUVATE CARRIER

ENSG00000238210 ENSG00000238210.3 ENST00000427686 ENST00000427686.2 2 GENCODE basic tsl1

ENSG00000238210 ENSG00000238210.3 ENST00000454551 ENST00000454551.1 2 GENCODE basic tsl3

ENSG00000239395 ENSG00000239395.2 ENST00000419891 ENST00000419891.1 1 GENCODE basic tsl3

ENSG00000239521 ENSG00000239521.8 ENST00000328453 ENST00000328453.9 13 tsl1

ENSG00000239521 ENSG00000239521.8 ENST00000543273 ENST00000543273.5 13 tsl1

ENSG00000239521 ENSG00000239521.8 ENST00000649671 ENST00000649671.1 13

ENSG00000239521 ENSG00000239521.8 ENST00000414997 ENST00000414997.1 13 tsl4

ENSG00000239521 ENSG00000239521.8 ENST00000440058 ENST00000440058.5 13 tsl2

ENSG00000239521 ENSG00000239521.8 ENST00000437485 ENST00000437485.5 13 tsl5

ENSG00000239521 ENSG00000239521.8 ENST00000454084 ENST00000454084.5 13 tsl3

ENSG00000239521 ENSG00000239521.8 ENST00000435519 ENST00000435519.6 13 tsl2

ENSG00000239521 ENSG00000239521.8 ENST00000445230 ENST00000445230.1 13 tsl3

ENSG00000239521 ENSG00000239521.8 ENST00000414739 ENST00000414739.3 13 tsl1

ENSG00000239521 ENSG00000239521.8 ENST00000647868 ENST00000647868.1 13

ENSG00000239521 ENSG00000239521.8 ENST00000538588 ENST00000538588.2 13 tsl4

ENSG00000239521 ENSG00000239521.8 ENST00000436886 ENST00000436886.7 13 GENCODE basic tsl1 (assigned to previous version 6) PTHR31131 CYTOSOLIC ARGININE SENSOR MTORC1 SUBUNIT GATS

ENSG00000239620 ENSG00000239620.2 ENST00000465482 ENST00000465482.2 1 GENCODE basic tslNA (assigned to previous version 1) TF626998 PROLINE RICH

ENSG00000239642 ENSG00000239642.6 ENST00000439905 ENST00000439905.5 5 tsl3

ENSG00000239642 ENSG00000239642.6 ENST00000442687 ENST00000442687.6 5 GENCODE basic tsl1 (assigned to previous version 5) TF338954 MEIOSIS SPECIFIC KINETOCHORE

ENSG00000239642 ENSG00000239642.6 ENST00000446743 ENST00000446743.1 5 tsl3

ENSG00000239642 ENSG00000239642.6 ENST00000425320 ENST00000425320.1 5 tsl3

ENSG00000239642 ENSG00000239642.6 ENST00000616644 ENST00000616644.2 5 GENCODE basic tsl5 TF338954 MEIOSIS SPECIFIC KINETOCHORE

ENSG00000239920 ENSG00000239920.2 ENST00000380259 ENST00000380259.7 5 GENCODE basic tsl5 (assigned to previous version 6) PTHR24103\_SF49 TRIPARTITE MOTIF CONTAINING 5 EC\_2.3.2.27 RING TYPE E3 UBIQUITIN TRANSFERASE TRIM5 TRIM5ALPHA

ENSG00000239920 ENSG00000239920.2 ENST00000646569 ENST00000646569.1 5

ENSG00000239920 ENSG00000239920.2 ENST00000643199 ENST00000643199.1 5

ENSG00000239920 ENSG00000239920.2 ENST00000394793 ENST00000394793.3 5 tsl3 (assigned to previous version 2)

ENSG00000239920 ENSG00000239920.2 ENST00000642298 ENST00000642298.1 5

ENSG00000240045 ENSG00000240045.2 ENST00000489090 ENST00000489090.2 1 GENCODE basic tsl1 (assigned to previous version 1)

ENSG00000241149 ENSG00000241149.3 ENST00000330020 ENST00000330020.4 1 GENCODE basic tsl3 PTHR24377\_SF153 ZINC FINGER

ENSG00000241224 ENSG00000241224.7 ENST00000479039 ENST00000479039.3 8 tsl5

ENSG00000241224 ENSG00000241224.7 ENST00000467240 ENST00000467240.1 8 tsl2

ENSG00000241224 ENSG00000241224.7 ENST00000622536 ENST00000622536.5 8 GENCODE basic tsl5

ENSG00000241224 ENSG00000241224.7 ENST00000477643 ENST00000477643.6 8 tsl2

ENSG00000241224 ENSG00000241224.7 ENST00000612064 ENST00000612064.1 8 tsl5

ENSG00000241224 ENSG00000241224.7 ENST00000616779 ENST00000616779.4 8 tsl5

ENSG00000241224 ENSG00000241224.7 ENST00000593799 ENST00000593799.2 8 tsl5

ENSG00000241224 ENSG00000241224.7 ENST00000619765 ENST00000619765.1 8 tsl5

ENSG00000242120 ENSG00000242120.3 ENST00000567252 ENST00000567252.1 1 GENCODE basic tsl1 PTHR15304\_SF2 MYOD FAMILY INHIBITOR DOMAIN CONTAINING 2

ENSG00000243910 ENSG00000243910.7 ENST00000485041 ENST00000485041.5 3 tsl1

ENSG00000243910 ENSG00000243910.7 ENST00000473885 ENST00000473885.5 3 tsl1

ENSG00000243910 ENSG00000243910.7 ENST00000490341 ENST00000490341.2 3 GENCODE basic tsl2 PTHR11588\_SF90 TUBULIN ALPHA

ENSG00000244219 ENSG00000244219.7 ENST00000431679 ENST00000431679.6 3 GENCODE basic tsl5 (assigned to previous version 5) TF629721 TRANSMEMBRANE 225B

ENSG00000244219 ENSG00000244219.7 ENST00000453227 ENST00000453227.5 3 GENCODE basic tsl5 TF629721 TRANSMEMBRANE 225B

ENSG00000244219 ENSG00000244219.7 ENST00000429679 ENST00000429679.1 3 tsl3

ENSG00000244234 ENSG00000244234.2 ENST00000463439 ENST00000463439.2 1 GENCODE basic tslNA (assigned to previous version 1) PTHR23231\_SF11 GERM CELL LESS 1

ENSG00000247315 ENSG00000247315.3 ENST00000500893 ENST00000500893.3 1 GENCODE basic tslNA PTHR22639 ZINC FINGER CCHC DOMAIN CONTAINING 3

ENSG00000247595 ENSG00000247595.4 ENST00000636313 ENST00000636313.1 7 tsl5

ENSG00000247595 ENSG00000247595.4 ENST00000634992 ENST00000634992.1 7 GENCODE basic tsl5

ENSG00000247595 ENSG00000247595.4 ENST00000635674 ENST00000635674.1 7 GENCODE basic tsl2

ENSG00000247595 ENSG00000247595.4 ENST00000511927 ENST00000511927.2 7 GENCODE basic tsl4

ENSG00000247595 ENSG00000247595.4 ENST00000501599 ENST00000501599.3 7 tsl2

ENSG00000247595 ENSG00000247595.4 ENST00000636011 ENST00000636011.1 7 GENCODE basic tsl5

ENSG00000247595 ENSG00000247595.4 ENST00000542172 ENST00000542172.1 7 GENCODE basic tsl1

ENSG00000248109 ENSG00000248109.2 ENST00000638059 ENST00000638059.1 4 GENCODE basic tsl5

ENSG00000248109 ENSG00000248109.2 ENST00000513133 ENST00000513133.2 4 tsl5

ENSG00000248109 ENSG00000248109.2 ENST00000637618 ENST00000637618.1 4 tsl5

ENSG00000248109 ENSG00000248109.2 ENST00000638089 ENST00000638089.1 4 GENCODE basic tsl3

ENSG00000248144 ENSG00000248144.6 ENST00000515683 ENST00000515683.6 4 GENCODE basic tsl1 (assigned to previous version 5) Alcohol dependence PTHR11695\_SF376 ALCOHOL DEHYDROGENASE EC\_1.1.1.1 ALCOHOL DEHYDROGENASE SUBUNIT

ENSG00000248144 ENSG00000248144.6 ENST00000515683 ENST00000515683.6 4 GENCODE basic tsl1 (assigned to previous version 5) Parkinson disease late-onset PTHR11695\_SF376 ALCOHOL DEHYDROGENASE EC\_1.1.1.1 ALCOHOL DEHYDROGENASE SUBUNIT

ENSG00000248144 ENSG00000248144.6 ENST00000510055 ENST00000510055.5 4 tsl3 Alcohol dependence PTHR11695\_SF376 ALCOHOL DEHYDROGENASE EC\_1.1.1.1 ALCOHOL DEHYDROGENASE SUBUNIT

ENSG00000248144 ENSG00000248144.6 ENST00000510055 ENST00000510055.5 4 tsl3 Parkinson disease late-onset PTHR11695\_SF376 ALCOHOL DEHYDROGENASE EC\_1.1.1.1 ALCOHOL DEHYDROGENASE SUBUNIT

ENSG00000248144 ENSG00000248144.6 ENST00000511397 ENST00000511397.3 4 tsl3 Alcohol dependence PTHR11695\_SF376 ALCOHOL DEHYDROGENASE EC\_1.1.1.1 ALCOHOL DEHYDROGENASE SUBUNIT

ENSG00000248144 ENSG00000248144.6 ENST00000511397 ENST00000511397.3 4 tsl3 Parkinson disease late-onset PTHR11695\_SF376 ALCOHOL DEHYDROGENASE EC\_1.1.1.1 ALCOHOL DEHYDROGENASE SUBUNIT

ENSG00000248144 ENSG00000248144.6 ENST00000505942 ENST00000505942.2 4 tsl5 Alcohol dependence

ENSG00000248144 ENSG00000248144.6 ENST00000505942 ENST00000505942.2 4 tsl5 Parkinson disease late-onset

ENSG00000248329 ENSG00000248329.6 ENST00000507152 ENST00000507152.6 5 GENCODE basic tsl1 (assigned to previous version 5)

ENSG00000248329 ENSG00000248329.6 ENST00000515275 ENST00000515275.1 5 GENCODE basic tsl3

ENSG00000248329 ENSG00000248329.6 ENST00000510062 ENST00000510062.5 5 tsl3

ENSG00000248329 ENSG00000248329.6 ENST00000505269 ENST00000505269.1 5 tsl5

ENSG00000248329 ENSG00000248329.6 ENST00000515405 ENST00000515405.1 5 tsl3

ENSG00000248746 ENSG00000248746.6 ENST00000502692 ENST00000502692.5 3 GENCODE basic tsl2 Actn3 deficiency PTHR11915\_SF236 ALPHA ACTININ ALPHA ACTININ SKELETAL MUSCLE F ACTIN CROSS LINKING

ENSG00000248746 ENSG00000248746.6 ENST00000513398 ENST00000513398.2 3 GENCODE basic tsl1 (assigned to previous version 1) Actn3 deficiency PTHR11915\_SF236 ALPHA ACTININ ALPHA ACTININ SKELETAL MUSCLE F ACTIN CROSS LINKING

ENSG00000248746 ENSG00000248746.6 ENST00000511191 ENST00000511191.1 3 tsl5 Actn3 deficiency

ENSG00000248767 ENSG00000248767.2 ENST00000506382 ENST00000506382.2 2 GENCODE basic tsl5 PTHR11829\_SF114 FORKHEAD BOX L1

ENSG00000248767 ENSG00000248767.2 ENST00000510017 ENST00000510017.1 2 tsl2

ENSG00000248771 ENSG00000248771.5 ENST00000515485 ENST00000515485.5 2 GENCODE basic tsl5

ENSG00000248771 ENSG00000248771.5 ENST00000507311 ENST00000507311.1 2 GENCODE basic tsl1

ENSG00000249156 ENSG00000249156.2 ENST00000503184 ENST00000503184.2 1 GENCODE basic tslNA PTHR13218\_SF8 TRANSCRIPTION INITIATION FACTOR TFIID SUBUNIT 11 TFIID SUBUNIT P30 BETA TRANSCRIPTION INITIATION FACTOR TFIID 28 KDA SUBUNIT TAF II 28 TAFII 28 TAFII28

ENSG00000249662 ENSG00000249662.6 ENST00000503267 ENST00000503267.5 2 tsl2

ENSG00000249662 ENSG00000249662.6 ENST00000638486 ENST00000638486.2 2 GENCODE basic tslNA (assigned to previous version 1) PTHR13218\_SF8 TRANSCRIPTION INITIATION FACTOR TFIID SUBUNIT 11 TFIID SUBUNIT P30 BETA TRANSCRIPTION INITIATION FACTOR TFIID 28 KDA SUBUNIT TAF II 28 TAFII 28 TAFII28

ENSG00000249715 ENSG00000249715.12 ENST00000505256 ENST00000505256.6 7 tsl2

ENSG00000249715 ENSG00000249715.12 ENST00000436930 ENST00000436930.6 7 tsl5 PTHR12546\_SF34 FER 1 5

ENSG00000249715 ENSG00000249715.12 ENST00000624922 ENST00000624922.6 7 GENCODE basic tsl5 (assigned to previous version 4) PTHR12546\_SF34 FER 1 5

ENSG00000249715 ENSG00000249715.12 ENST00000457909 ENST00000457909.2 7 tsl2

ENSG00000249715 ENSG00000249715.12 ENST00000623019 ENST00000623019.5 7 GENCODE basic tslNA (assigned to previous version 4) PTHR12546\_SF34 FER 1 5

ENSG00000249715 ENSG00000249715.12 ENST00000623246 ENST00000623246.5 7 GENCODE basic tsl5 (assigned to previous version 4) PTHR12546\_SF34 FER 1 5

ENSG00000249715 ENSG00000249715.12 ENST00000641731 ENST00000641731.1 7 GENCODE basic PTHR12546\_SF34 FER 1 5

ENSG00000250298 ENSG00000250298.4 ENST00000638719 ENST00000638719.2 2 GENCODE basic tsl5 (assigned to previous version 1) PTHR10903\_SF40 GTPASE IMAP FAMILY MEMBER GIMD1 GIMAP FAMILY P LOOP NTPASE DOMAIN CONTAINING 1

ENSG00000250298 ENSG00000250298.4 ENST00000507153 ENST00000507153.2 2 GENCODE basic tsl2 PTHR10903\_SF40 GTPASE IMAP FAMILY MEMBER GIMD1 GIMAP FAMILY P LOOP NTPASE DOMAIN CONTAINING 1

ENSG00000250312 ENSG00000250312.8 ENST00000510175 ENST00000510175.6 3 GENCODE basic tsl1 (assigned to previous version 5) PTHR24377\_SF247 ZINC FINGER

ENSG00000250312 ENSG00000250312.8 ENST00000642529 ENST00000642529.1 3 PTHR24377\_SF247 ZINC FINGER

ENSG00000250312 ENSG00000250312.8 ENST00000609714 ENST00000609714.1 3 GENCODE basic tsl1 PTHR24377\_SF247 ZINC FINGER

ENSG00000250366 ENSG00000250366.2 ENST00000504119 ENST00000504119.1 3 GENCODE basic tsl2

ENSG00000250366 ENSG00000250366.2 ENST00000503525 ENST00000503525.2 3 GENCODE basic tsl1

ENSG00000250366 ENSG00000250366.2 ENST00000554321 ENST00000554321.1 3 GENCODE basic tsl4

ENSG00000250374 ENSG00000250374.4 ENST00000503032 ENST00000503032.2 1 GENCODE basic tslNA (assigned to previous version 1) PTHR24103\_SF312 TRIPARTITE MOTIF CONTAINING 75 TRIPARTITE MOTIF CONTAINING 75 PSEUDOGENE

ENSG00000250719 ENSG00000250719.1 ENST00000506599 ENST00000506599.1 1 GENCODE basic tsl2 TF661620 UNCHARACTERIZED

ENSG00000250782 ENSG00000250782.1 ENST00000512227 ENST00000512227.1 1 GENCODE basic tslNA PTHR13218\_SF8 TRANSCRIPTION INITIATION FACTOR TFIID SUBUNIT 11 TFIID SUBUNIT P30 BETA TRANSCRIPTION INITIATION FACTOR TFIID 28 KDA SUBUNIT TAF II 28 TAFII 28 TAFII28

ENSG00000250803 ENSG00000250803.6 ENST00000514925 ENST00000514925.1 4 tsl3

ENSG00000250803 ENSG00000250803.6 ENST00000515596 ENST00000515596.1 4 tsl3

ENSG00000250803 ENSG00000250803.6 ENST00000509403 ENST00000509403.6 4 GENCODE basic tsl2 PTHR13555\_SF26 ZINC FINGER 474

ENSG00000250803 ENSG00000250803.6 ENST00000514637 ENST00000514637.1 4 GENCODE basic tsl2 PTHR13555\_SF26 ZINC FINGER 474

ENSG00000250821 ENSG00000250821.2 ENST00000636125 ENST00000636125.1 2 GENCODE basic tsl3 PTHR16092\_SF9 EXOCYST COMPLEX COMPONENT 1

ENSG00000250821 ENSG00000250821.2 ENST00000504250 ENST00000504250.1 2 tsl1

ENSG00000251287 ENSG00000251287.8 ENST00000425059 ENST00000425059.1 3 GENCODE basic tsl5 PTHR13036 CHITOBIOSYLDIPHOSPHODOLICHOL BETA MANNOSYLTRANSFERASE EC\_2.4.1.142 ASPARAGINE LINKED GLYCOSYLATION 1 BETA 1 4 MANNOSYLTRANSFERASE GDP MAN:GLCNAC2 PP DOLICHOL MANNOSYLTRANSFERASE GDP MANNOSE DOLICHOL DIPHOSPHOCHITOBIOSE MANNOSYLTRANSFERASE

ENSG00000251287 ENSG00000251287.8 ENST00000507643 ENST00000507643.5 3 tsl5

ENSG00000251287 ENSG00000251287.8 ENST00000511726 ENST00000511726.1 3 tsl4

ENSG00000253649 ENSG00000253649.5 ENST00000523024 ENST00000523024.1 6 tsl1

ENSG00000253649 ENSG00000253649.5 ENST00000521149 ENST00000521149.2 6 tsl5

ENSG00000253649 ENSG00000253649.5 ENST00000647010 ENST00000647010.1 6 GENCODE basic PTHR24265\_SF35 SERINE PROTEASE 55 PRECURSOR EC\_3.4.21.-

ENSG00000253649 ENSG00000253649.5 ENST00000636217 ENST00000636217.1 6 GENCODE basic tsl5

ENSG00000253649 ENSG00000253649.5 ENST00000637190 ENST00000637190.1 6 GENCODE basic tsl5

ENSG00000253649 ENSG00000253649.5 ENST00000647727 ENST00000647727.1 6 GENCODE basic PTHR24265\_SF35 SERINE PROTEASE 55 PRECURSOR EC\_3.4.21.-

ENSG00000254126 ENSG00000254126.7 ENST00000416057 ENST00000416057.2 2 GENCODE basic tsl3 (assigned to previous version 1) PTHR11292 T CELL SURFACE GLYCOPROTEIN CD8 BETA CHAIN PRECURSOR CD8B

ENSG00000254126 ENSG00000254126.7 ENST00000643224 ENST00000643224.1 2 GENCODE basic PTHR11292 T CELL SURFACE GLYCOPROTEIN CD8 BETA CHAIN PRECURSOR CD8B

ENSG00000255009 ENSG00000255009.4 ENST00000530464 ENST00000530464.2 1 GENCODE basic tslNA PTHR13711\_SF149 UPSTREAM BINDING FACTOR 1

ENSG00000255071 ENSG00000255071.3 ENST00000524555 ENST00000524555.3 1 GENCODE basic tsl3 PTHR23424 SERUM AMYLOID A

ENSG00000255151 ENSG00000255151.2 ENST00000527482 ENST00000527482.2 1 GENCODE basic tsl5 PTHR15298 GLYCINE N ACYLTRANSFERASE EC\_2.3.1.13 ACYL COA:GLYCINE N ACYLTRANSFERASE

ENSG00000255192 ENSG00000255192.5 ENST00000528386 ENST00000528386.3 2 GENCODE basic tslNA PTHR24327\_SF29 HOMEOBOX NANOG HOMEOBOX TRANSCRIPTION FACTOR NANOG

ENSG00000255192 ENSG00000255192.5 ENST00000629403 ENST00000629403.1 2 GENCODE basic tsl1 PTHR24327\_SF29 HOMEOBOX NANOG HOMEOBOX TRANSCRIPTION FACTOR NANOG

ENSG00000255274 ENSG00000255274.9 ENST00000636151 ENST00000636151.1 4 GENCODE basic tsl5 TF662656 SMALL INTEGRAL MEMBRANE 35

ENSG00000255274 ENSG00000255274.9 ENST00000527329 ENST00000527329.5 4 tsl1

ENSG00000255274 ENSG00000255274.9 ENST00000527695 ENST00000527695.1 4 tsl1

ENSG00000255274 ENSG00000255274.9 ENST00000606951 ENST00000606951.5 4 tsl1

ENSG00000255393 ENSG00000255393.2 ENST00000644647 ENST00000644647.1 3

ENSG00000255393 ENSG00000255393.2 ENST00000642343 ENST00000642343.1 3 GENCODE basic

ENSG00000255393 ENSG00000255393.2 ENST00000534388 ENST00000534388.2 3 tsl3 (assigned to previous version 1)

ENSG00000255690 ENSG00000255690.2 ENST00000539664 ENST00000539664.2 1 GENCODE basic tslNA PTHR24367\_SF254 TLR4 INTERACTOR WITH LEUCINE RICH REPEATS PRECURSOR LEUCINE RICH REPEAT CONTAINING

ENSG00000255855 ENSG00000255855.2 ENST00000545950 ENST00000545950.2 1 GENCODE basic tslNA PTHR10694\_SF34 LYSINE SPECIFIC DEMETHYLASE 4E EC\_1.14.11.- KDM4D LYSINE SPECIFIC DEMETHYLASE 4D

ENSG00000256514 ENSG00000256514.1 ENST00000543494 ENST00000543494.1 1 GENCODE basic tsl3 PTHR14303\_SF0 DNA POLYMERASE DELTA SUBUNIT 4 DNA POLYMERASE DELTA SUBUNIT P12

ENSG00000256537 ENSG00000256537.4 ENST00000622602 ENST00000622602.1 1 GENCODE basic tslNA TF336091 SMALL INTEGRAL MEMBRANE 10

ENSG00000256806 ENSG00000256806.5 ENST00000542475 ENST00000542475.2 3 GENCODE basic tslNA TF338155 UNCHARACTERIZED HOMOLOG

ENSG00000256806 ENSG00000256806.5 ENST00000635042 ENST00000635042.1 3 tsl5 TF338155 UNCHARACTERIZED HOMOLOG

ENSG00000256806 ENSG00000256806.5 ENST00000634977 ENST00000634977.1 3 tsl5

ENSG00000257057 ENSG00000257057.2 ENST00000542198 ENST00000542198.2 1 GENCODE basic tsl5 TF633005 UNCHARACTERIZED

ENSG00000257524 ENSG00000257524.6 ENST00000643029 ENST00000643029.1 7 PTHR13713\_SF45 ALPHA N ACETYLGALACTOSAMINIDE ALPHA 2 6 SIALYLTRANSFERASE 6 EC\_2.4.99.- GALNAC ALPHA 2 6 SIALYLTRANSFERASE VI ST6GALNAC VI ST6GALNACVI SIALYLTRANSFERASE 7F SIAT7 F

ENSG00000257524 ENSG00000257524.6 ENST00000643338 ENST00000643338.1 7 PTHR13713\_SF45 ALPHA N ACETYLGALACTOSAMINIDE ALPHA 2 6 SIALYLTRANSFERASE 6 EC\_2.4.99.- GALNAC ALPHA 2 6 SIALYLTRANSFERASE VI ST6GALNAC VI ST6GALNACVI SIALYLTRANSFERASE 7F SIAT7 F

ENSG00000257524 ENSG00000257524.6 ENST00000646171 ENST00000646171.1 7 PTHR13713\_SF45 ALPHA N ACETYLGALACTOSAMINIDE ALPHA 2 6 SIALYLTRANSFERASE 6 EC\_2.4.99.- GALNAC ALPHA 2 6 SIALYLTRANSFERASE VI ST6GALNAC VI ST6GALNACVI SIALYLTRANSFERASE 7F SIAT7 F

ENSG00000257524 ENSG00000257524.6 ENST00000476274 ENST00000476274.7 7 tsl5 (assigned to previous version 6)

ENSG00000257524 ENSG00000257524.6 ENST00000645007 ENST00000645007.1 7 GENCODE basic PTHR13713\_SF45 ALPHA N ACETYLGALACTOSAMINIDE ALPHA 2 6 SIALYLTRANSFERASE 6 EC\_2.4.99.- GALNAC ALPHA 2 6 SIALYLTRANSFERASE VI ST6GALNAC VI ST6GALNACVI SIALYLTRANSFERASE 7F SIAT7 F

ENSG00000257524 ENSG00000257524.6 ENST00000548587 ENST00000548587.1 7 tsl4

ENSG00000257524 ENSG00000257524.6 ENST00000642314 ENST00000642314.1 7

ENSG00000258102 ENSG00000258102.4 ENST00000630062 ENST00000630062.1 4 tsl5

ENSG00000258102 ENSG00000258102.4 ENST00000547114 ENST00000547114.3 4 tsl3

ENSG00000258102 ENSG00000258102.4 ENST00000625301 ENST00000625301.1 4 tsl5

ENSG00000258102 ENSG00000258102.4 ENST00000556529 ENST00000556529.3 4 GENCODE basic tsl3 (assigned to previous version 2) PTHR10969\_SF15 MICROTUBULE ASSOCIATED PROTEINS 1A/1B LIGHT CHAIN 3B PRECURSOR AUTOPHAGY RELATED LC3 B AUTOPHAGY RELATED UBIQUITIN MODIFIER LC3 B MAP1 LIGHT CHAIN 3 2 MAP1A/MAP1B LIGHT CHAIN 3 B MAP1A/MAP1B LC3 B MICROTUBULE ASSOCIATED 1 LIGHT CHAIN 3 BETA

ENSG00000258453 ENSG00000258453.3 ENST00000556246 ENST00000556246.3 2 GENCODE basic tslNA (assigned to previous version 2) PTHR24242\_SF201 OLFACTORY RECEPTOR OLFACTORY RECEPTOR 1

ENSG00000258453 ENSG00000258453.3 ENST00000641517 ENST00000641517.1 2 GENCODE basic PTHR24242\_SF201 OLFACTORY RECEPTOR OLFACTORY RECEPTOR 1

ENSG00000258461 ENSG00000258461.5 ENST00000483208 ENST00000483208.5 4 tsl2 PTHR22762\_SF60 NEUTRAL ALPHA GLUCOSIDASE C EC\_3.2.1.20

ENSG00000258461 ENSG00000258461.5 ENST00000549793 ENST00000549793.5 4 tsl2 PTHR22762\_SF60 NEUTRAL ALPHA GLUCOSIDASE C EC\_3.2.1.20

ENSG00000258461 ENSG00000258461.5 ENST00000466369 ENST00000466369.5 4 tsl2 PTHR22762\_SF60 NEUTRAL ALPHA GLUCOSIDASE C EC\_3.2.1.20

ENSG00000258461 ENSG00000258461.5 ENST00000495723 ENST00000495723.1 4 GENCODE basic tsl2 PTHR22762\_SF60 NEUTRAL ALPHA GLUCOSIDASE C EC\_3.2.1.20

ENSG00000258644 ENSG00000258644.6 ENST00000621525 ENST00000621525.4 4 GENCODE basic tsl2 PTHR17130\_SF18 SYNAPTOJANIN 2 BINDING ACTIVIN RECEPTOR INTERACTING 2 MITOCHONDRIAL OUTER MEMBRANE 25

ENSG00000258644 ENSG00000258644.6 ENST00000617196 ENST00000617196.4 4 tsl2

ENSG00000258644 ENSG00000258644.6 ENST00000617124 ENST00000617124.4 4 tsl2 PTHR17130\_SF18 SYNAPTOJANIN 2 BINDING ACTIVIN RECEPTOR INTERACTING 2 MITOCHONDRIAL OUTER MEMBRANE 25

ENSG00000258644 ENSG00000258644.6 ENST00000618385 ENST00000618385.1 4 tsl3

ENSG00000259330 ENSG00000259330.2 ENST00000638170 ENST00000638170.1 2 GENCODE basic tslNA TF631805 TRANSMEMBRANE INAFM2 INAF MOTIF CONTAINING 2 OSTEOGENESIS UP REGULATED TRANSCRIPT 1

ENSG00000259330 ENSG00000259330.2 ENST00000560415 ENST00000560415.1 2 tsl2

ENSG00000259417 ENSG00000259417.3 ENST00000560778 ENST00000560778.3 1 GENCODE basic tsl3 (assigned to previous version 2)

ENSG00000260097 ENSG00000260097.2 ENST00000563237 ENST00000563237.2 1 GENCODE basic tsl5 PTHR31156 SPEEDY

ENSG00000260643 ENSG00000260643.2 ENST00000638948 ENST00000638948.1 3 tsl5 PTHR11715\_SF3 GLYCINE CLEAVAGE SYSTEM H PROTEIN MITOCHONDRIAL PRECURSOR LIPOIC ACID CONTAINING

ENSG00000260643 ENSG00000260643.2 ENST00000564536 ENST00000564536.2 3 GENCODE basic tsl5 PTHR11715\_SF3 GLYCINE CLEAVAGE SYSTEM H PROTEIN MITOCHONDRIAL PRECURSOR LIPOIC ACID CONTAINING

ENSG00000260643 ENSG00000260643.2 ENST00000640370 ENST00000640370.1 3 tsl5 PTHR11715\_SF3 GLYCINE CLEAVAGE SYSTEM H PROTEIN MITOCHONDRIAL PRECURSOR LIPOIC ACID CONTAINING

ENSG00000260691 ENSG00000260691.6 ENST00000652170 ENST00000652170.1 9

ENSG00000260691 ENSG00000260691.6 ENST00000562196 ENST00000562196.5 9 GENCODE basic tsl1 PTHR24147\_SF1 ANKYRIN REPEAT DOMAIN CONTAINING ANKYRIN REPEAT DOMAIN CONTAINING PSEUDOGENE

ENSG00000260691 ENSG00000260691.6 ENST00000642071 ENST00000642071.2 9 PTHR24147\_SF1 ANKYRIN REPEAT DOMAIN CONTAINING ANKYRIN REPEAT DOMAIN CONTAINING PSEUDOGENE

ENSG00000260691 ENSG00000260691.6 ENST00000619063 ENST00000619063.4 9 tsl1 PTHR24147\_SF1 ANKYRIN REPEAT DOMAIN CONTAINING ANKYRIN REPEAT DOMAIN CONTAINING PSEUDOGENE

ENSG00000260691 ENSG00000260691.6 ENST00000616047 ENST00000616047.4 9 tsl1

ENSG00000260691 ENSG00000260691.6 ENST00000610624 ENST00000610624.1 9 tsl2

ENSG00000260691 ENSG00000260691.6 ENST00000620792 ENST00000620792.1 9 tsl5 PTHR24147\_SF1 ANKYRIN REPEAT DOMAIN CONTAINING ANKYRIN REPEAT DOMAIN CONTAINING PSEUDOGENE

ENSG00000260691 ENSG00000260691.6 ENST00000622129 ENST00000622129.4 9 tsl4

ENSG00000260691 ENSG00000260691.6 ENST00000616155 ENST00000616155.1 9 tsl3

ENSG00000260729 ENSG00000260729.1 ENST00000379915 ENST00000379915.4 1 GENCODE basic tsl2 PTHR22600 BETA HEXOSAMINIDASE SUBUNIT PRECURSOR EC\_3.2.1.52 BETA N ACETYLHEXOSAMINIDASE SUBUNIT HEXOSAMINIDASE SUBUNIT N ACETYL BETA GLUCOSAMINIDASE SUBUNIT

ENSG00000260734 ENSG00000260734.5 ENST00000561754 ENST00000561754.3 1 GENCODE basic tsl5 (assigned to previous version 2) PTHR10814 TRANSDUCIN ENHANCER

ENSG00000260802 ENSG00000260802.1 ENST00000569275 ENST00000569275.1 2 GENCODE basic tsl1

ENSG00000260802 ENSG00000260802.1 ENST00000563467 ENST00000563467.1 2 tsl4

ENSG00000261308 ENSG00000261308.2 ENST00000618634 ENST00000618634.2 2 GENCODE basic tsl5 PTHR23074\_SF33 FIDGETIN 2

ENSG00000261308 ENSG00000261308.2 ENST00000564840 ENST00000564840.2 2 GENCODE basic tsl5 PTHR23074\_SF33 FIDGETIN 2

ENSG00000261341 ENSG00000261341.6 ENST00000563228 ENST00000563228.5 3 tsl3

ENSG00000261341 ENSG00000261341.6 ENST00000562076 ENST00000562076.1 3 GENCODE basic tsl1

ENSG00000261341 ENSG00000261341.6 ENST00000636757 ENST00000636757.1 3 GENCODE basic tsl5

ENSG00000261408 ENSG00000261408.7 ENST00000567351 ENST00000567351.5 3 tsl2

ENSG00000261408 ENSG00000261408.7 ENST00000649294 ENST00000649294.1 3 GENCODE basic TF333010 CST COMPLEX SUBUNIT TEN1 TELOMERIC PATHWAYS WITH STN1 HOMOLOG TELOMERE LENGTH REGULATION TEN1 HOMOLOG

ENSG00000261408 ENSG00000261408.7 ENST00000569284 ENST00000569284.1 3 tsl2

ENSG00000261582 ENSG00000261582.1 ENST00000444717 ENST00000444717.1 1 GENCODE basic tsl3 PTHR10784 EUKARYOTIC TRANSLATION INITIATION FACTOR 6 EIF 6

ENSG00000261649 ENSG00000261649.6 ENST00000567390 ENST00000567390.6 2 GENCODE basic tsl5 PTHR23143\_SF9 GOLGIN SUBFAMILY A MEMBER 6

ENSG00000261649 ENSG00000261649.6 ENST00000569815 ENST00000569815.1 2 tsl2

ENSG00000261793 ENSG00000261793.1 ENST00000568665 ENST00000568665.1 1 GENCODE basic tsl3

ENSG00000261873 ENSG00000261873.2 ENST00000636752 ENST00000636752.1 3 GENCODE basic tsl5

ENSG00000261873 ENSG00000261873.2 ENST00000572159 ENST00000572159.1 3 tsl5

ENSG00000261873 ENSG00000261873.2 ENST00000577089 ENST00000577089.1 3 tsl3

ENSG00000262165 ENSG00000262165.2 ENST00000635921 ENST00000635921.1 2 GENCODE basic tsl5

ENSG00000262165 ENSG00000262165.2 ENST00000571067 ENST00000571067.1 2 tsl3

ENSG00000262179 ENSG00000262179.2 ENST00000573382 ENST00000573382.2 2 GENCODE basic tsl5 TF637125 MYOMIXER MICROPROTEIN INDUCER OF FUSION MINION

ENSG00000262179 ENSG00000262179.2 ENST00000576476 ENST00000576476.1 2 GENCODE basic tsl3 TF637125 MYOMIXER MICROPROTEIN INDUCER OF FUSION MINION

ENSG00000262461 ENSG00000262461.6 ENST00000571071 ENST00000571071.5 2 tsl1

ENSG00000262461 ENSG00000262461.6 ENST00000575125 ENST00000575125.5 2 GENCODE basic tsl1 PTHR31156 SPEEDY

ENSG00000263201 ENSG00000263201.1 ENST00000574912 ENST00000574912.1 1 GENCODE basic tsl3

ENSG00000263429 ENSG00000263429.3 ENST00000581851 ENST00000581851.1 2 GENCODE basic tsl1 TF626699 UNCHARACTERIZED

ENSG00000263429 ENSG00000263429.3 ENST00000578763 ENST00000578763.1 2 tsl3

ENSG00000263465 ENSG00000263465.4 ENST00000587424 ENST00000587424.2 2 GENCODE basic tslNA PTHR23147\_SF4 SERINE/ARGININE RICH SPLICING FACTOR 2 SPLICING COMPONENT 35 KDA SPLICING FACTOR SC35 SC 35 SPLICING FACTOR ARGININE/SERINE RICH 2

ENSG00000263465 ENSG00000263465.4 ENST00000638426 ENST00000638426.1 2 tsl2

ENSG00000263715 ENSG00000263715.7 ENST00000634540 ENST00000634540.1 2 GENCODE basic tsl2 PTHR12011\_SF175 CORTICOTROPIN RELEASING FACTOR RECEPTOR 1 PRECURSOR CRF R 1 CRF R1 CRFR 1 CORTICOTROPIN RELEASING HORMONE RECEPTOR 1 CRH R 1 CRH R1

ENSG00000263715 ENSG00000263715.7 ENST00000587305 ENST00000587305.1 2 tsl5

ENSG00000263874 ENSG00000263874.2 ENST00000583195 ENST00000583195.2 1 GENCODE basic tsl1

ENSG00000264006 ENSG00000264006.8 ENST00000648824 ENST00000648824.1 4 GENCODE basic PTHR11732\_SF166 ALDO KETO REDUCTASE FAMILY 1 MEMBER EC\_1.1.1.-

ENSG00000264006 ENSG00000264006.8 ENST00000584929 ENST00000584929.7 4 tslNA (assigned to previous version 6) PTHR11732\_SF166 ALDO KETO REDUCTASE FAMILY 1 MEMBER EC\_1.1.1.-

ENSG00000264006 ENSG00000264006.8 ENST00000578467 ENST00000578467.2 4 tsl2

ENSG00000264006 ENSG00000264006.8 ENST00000650030 ENST00000650030.1 4 GENCODE basic PTHR11732\_SF166 ALDO KETO REDUCTASE FAMILY 1 MEMBER EC\_1.1.1.-

ENSG00000266826 ENSG00000266826.2 ENST00000583666 ENST00000583666.2 1 GENCODE basic tsl3 PTHR10933 IMMUNOGLOBULIN BINDING 1 CD79A BINDING 1 PHOSPHATASE 2/4/6 REGULATORY SUBUNIT

ENSG00000267221 ENSG00000267221.2 ENST00000587304 ENST00000587304.2 1 GENCODE basic tsl5 PTHR24414\_SF26 ZINC FINGER AND BTB DOMAIN CONTAINING 8B

ENSG00000268041 ENSG00000268041.2 ENST00000597630 ENST00000597630.2 1 GENCODE basic tsl5 PTHR11849\_SF165 AMBIGUOUS

ENSG00000268655 ENSG00000268655.2 ENST00000637680 ENST00000637680.1 2 GENCODE basic tsl5 TF629195 UNCHARACTERIZED

ENSG00000268655 ENSG00000268655.2 ENST00000600007 ENST00000600007.1 2 tsl2

ENSG00000268696 ENSG00000268696.2 ENST00000600766 ENST00000600766.2 1 GENCODE basic tslNA (assigned to previous version 1) PTHR24384 ZINC FINGER

ENSG00000268799 ENSG00000268799.3 ENST00000600799 ENST00000600799.2 1 GENCODE basic tslNA (assigned to previous version 1) PTHR11426 HISTONE H3

ENSG00000268902 ENSG00000268902.3 ENST00000598036 ENST00000598036.1 4 tsl1

ENSG00000268902 ENSG00000268902.3 ENST00000638741 ENST00000638741.1 4 GENCODE basic tsl1 TF340411 CHONDROSARCOMA ASSOCIATED GENE 2/3 CANCER/TESTIS ANTIGEN 24 2 CT24 2 TAXOL RESISTANT ASSOCIATED GENE 3 TRAG 3

ENSG00000268902 ENSG00000268902.3 ENST00000640702 ENST00000640702.1 4 GENCODE basic tsl1 TF340411 CHONDROSARCOMA ASSOCIATED GENE 2/3 CANCER/TESTIS ANTIGEN 24 2 CT24 2 TAXOL RESISTANT ASSOCIATED GENE 3 TRAG 3

ENSG00000268902 ENSG00000268902.3 ENST00000535353 ENST00000535353.3 4 GENCODE basic tsl5 TF340411 CHONDROSARCOMA ASSOCIATED GENE 2/3 CANCER/TESTIS ANTIGEN 24 2 CT24 2 TAXOL RESISTANT ASSOCIATED GENE 3 TRAG 3

ENSG00000268994 ENSG00000268994.3 ENST00000596535 ENST00000596535.3 1 GENCODE basic tsl2 TF354057 UNKNOWN

ENSG00000269466 ENSG00000269466.3 ENST00000598383 ENST00000598383.2 1 GENCODE basic tslNA (assigned to previous version 1) PTHR11426 HISTONE H3

ENSG00000269720 ENSG00000269720.2 ENST00000636079 ENST00000636079.1 2 GENCODE basic tsl5

ENSG00000269720 ENSG00000269720.2 ENST00000597169 ENST00000597169.1 2 tslNA

ENSG00000270170 ENSG00000270170.2 ENST00000602845 ENST00000602845.2 1 GENCODE basic tslNA (assigned to previous version 1) TF338163 UNCHARACTERIZED NCBP2 AS2 NCBP2 ANTISENSE RNA 2 NCBP2 ANTISENSE GENE 2

ENSG00000270601 ENSG00000270601.4 ENST00000622421 ENST00000622421.2 1 GENCODE basic tsl1 PTHR14224 PRAME FAMILY MEMBER

ENSG00000271824 ENSG00000271824.1 ENST00000607574 ENST00000607574.1 1 GENCODE basic tslNA

ENSG00000272899 ENSG00000272899.4 ENST00000609480 ENST00000609480.4 1 GENCODE basic tsl3 (assigned to previous version 3) TF608988 AT FNB AT F NEIGHBOR GENE HOMOLOG

ENSG00000273238 ENSG00000273238.2 ENST00000610212 ENST00000610212.2 1 GENCODE basic tslNA (assigned to previous version 1)