

Product datasheet for **RG226934**

TBL1 (TBL1X) (NM_001139468) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBL1 (TBL1X) (NM_001139468) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TBL1X
Synonyms:	CHNG8; EBI; SMAP55; TBL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226934 representing NM_001139468
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCATAACCAAGTACGAGGTGAACCTTCTGGTGTATCGGTATCTCCAGGAGTCAAGTCTTCCCACT
 CGGCTTTACGTTTGGGATTGAGAGCCACATCAGCCAGTCCAACATCAATGGGACGCTAGTGCCACCGGC
 CGCCCTCATCTCCATTCTCCAGAAGGCCCTGCAGTATGTAGAGGCCGAGATCAGTATCAACGAGGATGGC
 ACAGTGTTCGACGGCCGCCCATAGAGTCCCTGTCACTGATAGACGCCGTGATGCCCGACGTGGTGCAGA
 CGCGGCAGCAGGCATTCCGAGAGAAGCTCGCTCAGCAGCAAGCCAGTGGCGCGCCGGCGGCTGCGGC
 CACGGCAGCAGCGACAGCAGCCACCACGACCTCAGCCGGCGTTTCCACCAAAATCCATCGAAGAACAGA
 GAGGCCACGGTGAATGGGAAGAGAACAGAGCACATTCAGTCAATAATCACGCGAAGCCAATGGAATAG
 ATGGAGAGTTGAGATTCATCCAGCAAAGCCACAGTCTTCGGGGCCATGAGTCTGAGGTGTTCAATTTG
 TGCTTGAATCCTGTCACTGATTTGCTAGCCTCCGGATCCGGAGACTCAACTGCAAGGATATGGAACCTG
 AATGAGAATAGCAACGGGGGCTCCACCCAGTCTGTTGAGGCACTGTATACGAGAGGGGGCCATGACG
 TCCCGAGTAACAAGACGTACCTCACTGGACTGGAATACCAATGGAACACTCTTGGCTACGGGTTCCATA
 TGACGGTTTTGCAAGAATATGGACGGAAGATGGTAACTGGCCAGCACCTTAGGCCAGCATAAAGGCCCC
 ATCTTTGCCTTGAATGGAACCGAAAGGGGAATTACATTTTGAAGTGTGGTGTAGACAAAACAACATAA
 TTTGGGATGCCACACAGGAGAAGCCAAACAGCAGTTCCTTTTTCATTACGCCCTGCCCTTGATGTGGA
 CTGGCAGAACAACAGCAGCTTTGCCTCCTGTAGCACAGACATGTGTATCCATGTGTGCAGGCTCGGCTGT
 GACCGCCAGTCAAACCTTCCAGGGACACAAAACGAGGTCAACGCCATCAAATGGGATCCGCTGGAA
 TGTTGCTGGCATCCTGCTCGGATGACATGACATGAAGATCTGGAGCATGAAACAGGAGGTGTCATCCA
 TGATCTTCAGGCTCAACAATAAGAGATCTACACCATCAAGTGGAGCCCACTGGGCCCAGCCACCAGCAAC
 CAAAACCTCAAACATCATGTTGGCAAGTGTCTGTTTATTCTACGGTGGGACTGTGGGACATAGAACGAG
 GCGTCTGCACCCACAGCTCACGAAGCATCAGGAGCCTGTCTATAGCGTAGCTTTAGCCCTGATGGGAA
 GTACTTGGCCAGTGGATCCTTCGACAAGTGCCTCCATATCTGGAATACTCAGAGTGGAAATCTTGTCCAC
 AGTACCAGGCACTGGCGGCATCTTCGAGGTGTGCTGGAACGCCCGAGGAGACAAAGTGGGTGCCAGCG
 CGTCCGACGGCTCTGTGTGTTTTGGATCTGCGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG226934 representing NM_001139468
 Red=Cloning site Green=Tags(s)

MSITSDEVNFLVYRYLQESGFSHSAFTFGIESHISQSNINGTLVPPAALISILQKGLQYVEAEISINEDG
 TVFDGRPIESLSLIDAVMPDVVQTRQAFREKLAQQQASAAAAAATAAATAATTTAGVSHQNP SKNR
 EATVNGEENRAHSVNNHAKPMEIDGVEEIPSSKATVLRGHESEVFI CAWNPVSDLLASGSGDSTAR IWNL
 NENSNGGSTQLVLRHCIREGGHDVPSNKDVTSLDWNTNGTLLATGSYDGFARIWTE DGNLASTLGQHKGP
 IFALKWNRKGNILSAGVDKTTIIWDAHTGEAKQFPFHSAPALDWDWQNN TTFASCSTDMCIHVCRLGC
 DRPVKTFQGHTNEVNAIKWDP SGMLLASCDDMTLKIWSMKQEVCIHDLQAHNKEIYTIKWSPTGPATSN
 PNSNIMLASASFDSTVRLWDIERGVCTHTLTKHQEPVYSVAFSPDGKYLASG SFDKCVHIWNTQSGNLVH
 SYRGTGGIFEVCWNARGDKV GASASDGSVCVLDLRK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001139468
ORF Size:	1578 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001139468.1 , NP_001132940.1
RefSeq Size:	5586 bp
RefSeq ORF:	1581 bp
Locus ID:	6907
UniProt ID:	O60907
Cytogenetics:	Xp22.31-p22.2
Protein Families:	Transcription Factors
Protein Pathways:	Wnt signaling pathway
Gene Summary:	The protein encoded by this gene has sequence similarity with members of the WD40 repeat-containing protein family. The WD40 group is a large family of proteins, which appear to have a regulatory function. It is believed that the WD40 repeats mediate protein-protein interactions and members of the family are involved in signal transduction, RNA processing, gene regulation, vesicular trafficking, cytoskeletal assembly and may play a role in the control of cytotypic differentiation. This encoded protein is found as a subunit in corepressor SMRT (silencing mediator for retinoid and thyroid receptors) complex along with histone deacetylase 3 protein. This gene is located adjacent to the ocular albinism gene and it is thought to be involved in the pathogenesis of the ocular albinism with late-onset sensorineural deafness phenotype. Four transcript variants encoding two different isoforms have been found for this gene. This gene is highly similar to the Y chromosome TBL1Y gene. [provided by RefSeq, Nov 2008]