

## Product datasheet for **RG226925**

### **TBL1 (TBL1X) (NM\_001139467) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TBL1 (TBL1X) (NM_001139467) 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:**

>RG226925 representing NM\_001139467  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCATAACCAAGTACGAGGTGAACCTTCTGGTGTATCGGTATCTCCAGGAGTCAAGTCTTTCCCACT  
 CGGCTTTACGTTTGGGATTGAGAGCCACATCAGCCAGTCCAACATCAATGGGACGCTAGTGCCACCGGC  
 CGCCCTCATCTCCATTCTCCAGAAGGCCCTGCAGTATGTAGAGGCCGAGATCAGTATCAACGAGGATGGC  
 ACAGTGTTCGACGGCCGCCCATAGAGTCCCTGTCACTGATAGACGCCGTGATGCCCGACGTGGTGCAGA  
 CGCGGCAGCAGGCATTCCGAGAGAAGCTCGCTCAGCAGCAAGCCAGTGGCGCGCCGGCGGCTGCGGC  
 CACGGCAGCAGCGACAGCAGCCACCACGACCTCAGCCGGCGTTTCCACCAAAATCCATCGAAGAACAGA  
 GAGGCCACGGTGAATGGGAAGAGAACAGAGCACATTCAGTCAATAATCACGCGAAGCCAATGGAATAG  
 ATGGAGAGGTTGAGATTCATCCAGCAAAGCCACAGTCTTCGGGGCCATGAGTCTGAGGTGTTCAATTTG  
 TGCTTGAATCCTGTCACTGATTTGCTAGCCTCCGGATCCGGAGACTCAACTGCAAGGATATGGAACCTG  
 AATGAGAATAGCAACGGGGGCTCCACCCAGTCTGTTGAGGCACTGTATACGAGAGGGGGCCATGACG  
 TCCCGAGTAACAAAGACGTACCTCACTGGACTGGAATACCAATGGAACACTCTTGGCTACGGGTTCCATA  
 TGACGGTTTTGCAAGAATATGGACGGAAGATGGTAACCTGGCCAGCACCTTAGGCCAGCATAAAGGCCCC  
 ATCTTTGCCTTGAATGGAACCGAAAGGGGAATTACATTTTGAAGTGTGGTGTAGACAAAACAACATAA  
 TTTGGGATGCCACACAGGAGAAGCCAAACAGCAGTTCCTTTTTCATTACGCCCTGCCCTTGATGTGGA  
 CTGGCAGAAACACAGCCTTTGCCTCCTGTAGCACAGACATGTGTATCCATGTGTGCAGGCTCGGCTGT  
 GACCGCCAGTCAAACCTTCCAGGGACACAAAACGAGGTCAACGCCATCAAATGGGATCCGCTGGAA  
 TGTTGCTGGCATCCTGCTCGGATGACATGACATGAAGATCTGGAGCATGAAACAGGAGGTGTCATCCA  
 TGATCTTCAGGCTCAATAAAGAGATCTACACCATCAAGTGGAGCCCACTGGGCCCGCCACCAGCAAC  
 CCAAACCTCAAACATCATGTTGGCAAGTGCCTCGTTTGATTCTACGGTGGGACTGTGGGACATAGAACGAG  
 GCGTCTGCACCCACAGCTCACGAAGCATCAGGAGCCTGTCTATAGCGTAGCTTTAGCCCTGATGGGAA  
 GTACTTGGCCAGTGGATCCTTCGACAAGTGCCTCCATATCTGGAATACTCAGAGTGGAAATCTTGTCCAC  
 AGCTACCGAGGCACTGGCGGCATCTTCGAGGTGTGCTGGAACGCCCGAGGAGACAAAGTGGGTGCCAGCG  
 CGTCCGACGGCTCTGTGTGTTTTGGATCTGCGGAAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG226925 representing NM\_001139467  
 Red=Cloning site Green=Tags(s)

MSITSDEVNFLVYRYLQESGFSHSAFTFGIESHISQSNINGTLVPPAALISILQKGLQYVEAEISINEDG  
 TVFDGRPIESLSLIDAVMPDVVQTRQAFREKLAQQQASAAAAAATAAATAATTTAGVSHQNP SKNR  
 EATVNGEENRAHSVNNHAKPMEIDGVEEIPSSKATVLRGHESEVFI CAWNPVSDLLASGSGDSTAR IWNL  
 NENSNGGSTQLVLRHCIREGGHDVPSNKDVTSLDWNTNGTLLATGSYDGFARIWTEG NLASTLGQHKGP  
 IFALKWNRKGNILSAGVDKTTIIWDAHTGEAKQFPFH SAPALDWDWQNNTTFASCSTDMCIHVCRLGC  
 DRPVKTFQGHTNEVNAIKWDP SGMLLASCDDMTLKIWSMKQEVCIHDLQAHNKEIYTIKWSPTGPATSN  
 PNSNIMLASASFDSTVRLWDIERGVCTHTLTKHQEPVYSVAFSPDGKYLASGSFDKCVHIWNTQSGNLVH  
 SYRGTGGIFEVCWNARGDKV GASASDGSVCVLDLRK

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_001139467
<b>ORF Size:</b>	1578 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001139467.1</a> , <a href="#">NP_001132939.1</a>
<b>RefSeq Size:</b>	5451 bp
<b>RefSeq ORF:</b>	1581 bp
<b>Locus ID:</b>	6907
<b>UniProt ID:</b>	<a href="#">O60907</a>
<b>Cytogenetics:</b>	Xp22.31-p22.2
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Wnt signaling pathway
<b>Gene Summary:</b>	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]