

## Product datasheet for **RG213516**

### **TBL1 (TBL1X) (NM\_005647) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TBL1 (TBL1X) (NM_005647) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TBL1
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:**

>RG213516 representing NM\_005647  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCGAGCTCGCTGGCGCCTTCTCATCGTGCTGCCACCGCCCTGCAGGAAGAGGGCCATGCAGTCAG  
 TCTTGACCACTTTCAAGTTTTGCGAGGGAGAGGGTGTTCCTCACTTCAACACCTCATCGCCGCG  
 AGGTGAGGCTAAGATGAGCATAACCAGTGACGAGTGAACCTTCTGGTGTATCGGTATCTCCAGGAGTCA  
 GGTTCCTCACTCGGCTTTCACGTTTGGGATTGAGAGCCACATCAGCCAGTCCAACATCAATGGGACGC  
 TAGTGCCACCGGCCGCCCTCATCTCCATTCTCCAGAAGGGCTGCAGTATGTAGAGGCCGAGATCAGTAT  
 CAACGAGGATGGCACAGTGTTCGACGGCCGCCCATAGAGTCCCTGTCACTGATAGACGCCGTGATGCC  
 GACGTGGTGCAGACGCGCAGCAGGCATTCGAGAGAAGCTCGCTCAGCAGCAAGCCAGTGCAGCGCCGCG  
 CGGCGGCTGCGGCCACGCGCAGCAGCAGCAGCAGCCACCACGACCTCAGCCGGCGTTTCCACCAAAATCC  
 ATCGAAGAACAGAGAGGCCACGGTGAATGGGAAGAGAACAGAGCACATTCAGTCAATAATCACCGGAAG  
 CCAATGGAAATAGATGGAGAGTTGAGATTCATCCAGCAAAGCCACAGTCCCTTCGGGGCCATGAGTCTG  
 AGGTGTTCAATTTGTGCTGGAATCCTGTCAAGTATTTGCTAGCCTCCGGATCTGGAGACTCAACTGCAAG  
 GATATGGAACCTGAATGAGAATAGCAACGGGGGCTCCACCCAGCTCGTGTGAGGCACTGTATACGAGAG  
 GGGGGCCATGACGTCCCGAGTAACAAAGACGTCACCTCACTGGACTGGAATACCAATGGAACACTTTGG  
 CTACGGTTTCATATGACGGTTTTGCAAGAATATGGACGGAAGATGGTAACCTGGCCAGCACCTTAGGCCA  
 ACATAAAGGCCCATCTTTGCCCTGAAATGGAACCGAAAGGGGAATTACATTTGAGTGTGGTGTAGAC  
 AAAACAACAATAATTTGGGATGCCACACAGGAGAAGCCAAACAGCAGTTTCTTTTCATTACGCCCTG  
 CCCTTGATGTGGACTGGCAGAACACAGCAGCTTTGCCCTCTGTAGCACAGACATGTGTATCCATGTGTG  
 CAGGCTCGGCTGTGACCGCCAGTCAAAACCTTCCAGGGACACACAACGAGGTCAACGCCATCAATGG  
 GATCCGCTCTGGAATGTTGCTGGCATCCTGCTCGGATGACATGACATTGAAGATCTGGAGCATGAAACAGG  
 AGGTGTGCATCCATGATCTTCAGGCTCACATAAAGAGATCTACACCATCAAGTGGAGCCCCACTGGGCC  
 CGCCACCAGCAACCCAACTCCAACATCATGTTGGCAAGTGTTCGTTTATTCTACGGTGCAGCTGTGG  
 GACATAGAACGAGGCGTCTGCACCCACAGCTCACGAAGCATCAGGAGCCTGTCTATAGCGTAGCTTTCA  
 GCCCTGATGGGAAGTACTTGGCCAGTGGATCCTTCGACAAGTGCCTCCATATCTGGAATACTCAGAGTGG  
 AAATCTTGTCCACAGCTACCGAGGCACTGGCGGCATCTTCGAGGTGTGCTGGAACGCCCGAGGAGACAAA  
 GTGGGTGCCAGCGCTCCGACGGCTCTGTGTGTGTTTGGATCTGCGGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG213516 representing NM\_005647  
 Red=Cloning site Green=Tags(s)

MTELAGASSSCCHRPAGRGAMQSVLHHFQRLRGREGGSHFINTSSPRGEAKMSITSDEVNFLVYRYLQES  
 GFSSAFTFGIESHISQSNINGTLVPPAALISILQKGLQYVEAEISINEDGTVFDGRPIESLSLIDAVMP  
 DVVQTRQAFREKLAQQQASAAAAAATAAATAATTSAGVSHQNP SKNREATVNGEENRAHSVNNHAK  
 PMEIDGEVEIPSSKATVLRGHESEVFCIWNPVSDLLASGSGDSTARIWNLNENSNGGSTQLVLRHCIRE  
 GGHDVPSNKDVTSLDWTNGTLLATGSYDGFARIWTEGDLASTLQHKGP I FALKWNRKGN Y ILSAGVD  
 KTTIIWDAHTGEAKQFPFHSAPALDWDQNNTFASCSTDMCIHVCRLGCDRPVKTFQGH TNEVNAIKW  
 DPSGMLLASCSDDMTLKIWSMKQEVCIHDLQAHNKEIYTIKWSPTGPATSNPNSNIMLASASFDSTVRLW  
 DIERGVTHTLTKHQEPVYSVAFSPDGKYLASGSFDCVHIWNTQSGNLVHSYRGTGGIFEV CWNARGDK  
 VGASASDGSVCVLDLRK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_005647

**ORF Size:** 1731 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:**

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\\_005647.4](#)

**RefSeq Size:** 5886 bp

**RefSeq ORF:** 1734 bp

**Locus ID:** 6907

**UniProt ID:** [O60907](#)

**Cytogenetics:** Xp22.31-p22.2

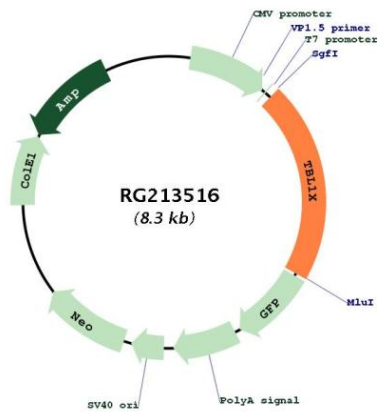
**Domains:** WD40, LisH

**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]

**Product images:**



Circular map for RG213516