

## Product datasheet for **SC116610**

### **TBL1 (TBL1X) (NM\_005647) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TBL1 (TBL1X) (NM_005647) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBL1
Synonyms:	CHNG8; EBI; SMAP55; TBL1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC116610 sequence for NM\_005647 edited (data generated by NextGen Sequencing)

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ATGACCGAGCTCGCTGGCGCCTCTTCATCGTGCTGCCACCGCCCTGCAGGAAGAGGGGCC
ATGCAGTCAGTCTTGACCACTTTCAACGTTTTCGAGGGAGAGAGGGTGGTTCCCACTTC
ATCAACACCTCATCGCCGCGAGGTGAGGCTAAGATGAGCATAACCAGTGACGAGGTGAAC
TTTCTGGTGTATCGGTATCTCCAGGAGTCAGGTTTTTCCCACTCGGCTTTCACGTTTGGG
ATTGAGAGCCACATCAGCCAGTCCAACATCAATGGGACGCTAGTGCCACCGGCCGCCCTC
ATCTCCATTCTCCAGAAGGGCCTGCAGTATGTAGAGGCCGAGATCAGTATCAACGAGGAT
GGCACAGTGTTCCGACGGCCGCCCATAGAGTCCCTGTCACTGATAGACGCCGTGATGCC
GACGTGGTGCAGACGCGGCAGCAGGCATTCCGAGAGAAGCTCGCTCAGCAGCAAGCCAGT
GCGGGCGCGGGCGGCTGCGGCCACGGCAGCAGCGACAGCAGCCACCACGACCTCAGCC
GGCGTTTTCCACAAAATCCATCGAAGAACAGAGAGGCCACGGTGAATGGGAAGAGAAC
AGAGCACATTCAGTCAATAATCACGCGAAGCCAATGGAATAGATGGAGAGGTTGAGATT
CCATCCAGCAAAGCCACAGTCTTCCGGGCCATGAGTCTGAGGTGTTCAATTTGTCCTGG
AATCCTGTCAGTGATTTGCTAGCCTCCGGATCTGGAGACTCAACTGCAAGGATATGGAAC
CTGAATGAGAATAGCAACGGGGCTCCACCCAGCTCGTGTGAGGCACTGTATACGAGAG
GGGGGCCATGACGTCCCGAGTAACAAAGACGTACCTCACTGGACTGGAATACCAATGGA
ACACTCTTGGCTACGGGTTTCATATGACGGTTTTGCAAGAATATGGACGGAAGATGGTAAC
CTGGCCAGCACCTTAGGCCAACATAAAGGCCCATCTTTGCCTTGAATGGAAACCGAAAG
GGGAATTACATTTTGGTGTCTGGTGTAGACAAAACAACAATAATTTGGGATGCCACACA
GGAGAAGCCAAACAGCAGTTTTCTTTTTCATTAGCCCTGCCCTTGTATGTGGACTGGCAG
AACAAACGACCTTTGCCTCCTGTAGCACAGACATGTGTATCCATGTGTGCAGGCTCGGC
TGTGACCGCCAGTCAAACCTTCCAGGGACACAAAACGAGGTCAACGCCATCAAATGG
GATCCGTCTGGAATGTTGCTGGCATCCTGCTCGGATGACATGACATTGAAGATCTGGAGC
ATGAAACAGGAGGTGTGCATCCATGATCTTCAAGCTCACATAAAGAGATCTACACCATC
AAGTGGAGCCCCACTGGGCCGCCACCAGCAACCCAACTCCAACATCATGTTGGCAAGT
GCTTCGTTTATTCTACGGTGCAGTGTGGGACATAGAACGAGGCGTCTGCACCCACAGC
CTCAGGAAGCATCAGGAGCCTGTCTATAGCGTAGCTTTCAGCCCTGATGGGAAGTACTTG
GCCAGTGGATCCTTCGACAAGTGCCTCATATCTGGAATACTCAGAGTGGAAATCTTGTC
CACAGTACCGAGGCACTGGCGGCATCTTCGAGGTGTGCTGGAACGCCCGAGGAGACAAA
GTGGGTGCCAGCGCTCCGACGGCTCTGTGTGTTTTGGATCTGCGGAAGTAA

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Clone variation with respect to NM\_005647.3

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_005647 unedited

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CGAATTCGGCACCAGAAGGAGCCCTGGCCTCCTTGCAGAAACATCGAGGTGACATGTAGC
ATGACCGAGCTCGTGGCGCCTTTCATCGTGCTGCCACCGCCCTGCAGGAAGAGGGGCC
ATGCAGTCAGTCTTGACCACTTTCAACGTTTTCGAGGGAGAGAGGGTGGTTCCCACTTC
ATCAACACCTCANNCTTCTTGAGGTGAGGCTAAGATGAGCATAACCAGTGACGAGGTGAA
CTTTCTGGTGTATCGGTATCTCCAGGAGTCAGGTTTTTCCCACTCGGCTTTCACGTTTGG
GATTGAGAGCCACATCAGCCAGTCCAACATCAATGGGACGCTAGTGCCACCGGCCGCCCT
CATCTCCATTCTCCAGAAGGGCCTGCAGTATGTAGAGGCCGGATCAGTATCAACGAGGA
TGGCACAGTGTTCCGACGGCCGCCCATAGAGTCCCTGTCACTGATAGACGCCGTGATGCC
CGACGTGGTGCAGACGCCGAGCAGGCATTCCGAGAGGAACTCGCTCAGCAGCAAGCCAA
TGCCGCGGGCGGGCGGCTGCGGCCCGGAGCAGCGACACCACCCACGACCTCAGCC
CGCGTTTTCCCAAAATCCTCCTAAACAAAAGGCCCGGTGAAGGGGGAGAAACCCAGCC
CCTCAGTCATAATCCCAACCATGGGAAAGGAGGGGAGGGGAGATCCTTCAACAAGGCC
CAGCCCTCGGGCCCTGAGTCTGAGGGTCATTTG

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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005647 unedited ATACCTCTGNNACCGCGGCCGCTTTTCTANATTTTTTAAAGGCGGCACAAAGGTTAAAA AACATATAAGCAACAAGAACAAGCAGACCCTTACATTTGACAAAAGTGCACTTCACTTGG CTCCATGATCTATTTCTTAGAAAGACTAAACAAAAGTCAAGTCTACGGTGTCCGAGGG GTCAGAGGGTTTACCCTGTAACGTCCGGCCCTTTGGTTTTTTTGGGGCAGCATCCCT TTCCCAGGTGTGTGCTGGACCTTATAATTTGCTACTGTGAACCCGACCAAACTCTAGG AAGGCTGTGCATGCTATGTCTGCTTTCAAGGTCACGTTTGGTCACTAAGACTTAGGCATT CCTCACCATGTTTTAAGAGCTGTAACAACGTTGAACAATAACATTCCACAGGCCATTTT TTGATTACAGGGATGACTCTACCAACATGCCAGCACCCCTAGAGGGTGAGCAGCGGTGTC GCCCATGTGACGCTCTGAACACGGCTGCCCATGGTGTGTCCCGCTGCCAACGGGGAT GGATATGAACGGTGTACCCGCATCTCCCGCTCGGCCCTGCTTCCCGCCGTCCGGTGTG AAGCCACGGAGCGCTGCGGCCCCAGGACTCCATTACACTTCCCTCACCTACCACT TCCCCATGGCCTCCCCTATTCCCGCACTTCTGCTCTCCCTCCGAGACCCCTTCGCCTC CTGTCACTTCCCCCCCCACTTTACCAGCAATCCTTCGCACTCATCCACCGTCCCCTT CCCCCTTCATCCCTTTTCCCCTCTCCTCCCCCTCTCCTGGCTTATTTTTGTCACTC CCCCCCATCCCCGTTCTCCTCCCCGTTGCGCCGCGCATCCGCCCTCTCCCCCT CCTGACCAATTTTCCCCTCCTCTCCCCCCCCCTACTTTTTCCCCCCCCCTTC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005647
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_005647.2</a> , <a href="#">NP_005638.1</a>
<b>RefSeq Size:</b>	5886 bp
<b>RefSeq ORF:</b>	1734 bp
<b>Locus ID:</b>	6907
<b>UniProt ID:</b>	<a href="#">O60907</a>
<b>Cytogenetics:</b>	Xp22.31-p22.2
<b>Domains:</b>	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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1 and 2 both encode isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.