

## Product datasheet for **MG223248**

### **Tbc1d2b (NM\_194334) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tbc1d2b (NM_194334) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tbc1d2b
Synonyms:	1810061M12Rik; AI480956; AV021536; AV023399; AW491493; mKIAA1055
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG223248 representing NM\_194334  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGGGGCCGGGACGGCGTGGAGGAGAGCTGCAGTGGTGGTGGAGGAGCGGTACCGGGAACAGGCT  
 CGGAGGCTGGGGCGGTGGCGGGACGGGAGCCCTCGCGGCTGTGCGGCTACCTGCAGAAGCTGTCGGGCAA  
 GGGCCCGTTGCGCGGCTACCGCAGCCGCTGGTTCTGTGTTGACTCGCGCCGCTGTACTCTACTACTTC  
 AAGAGTCCCAGGACGCTCTGCCGCTCGGCCACCTGGACATCGCCGACGCTGCTTCAGCTACCAGGGCC  
 GCGATGAGGCTGCGGAGCCGGAGCAGATCCGCCACACACTTCCAGGTGCACAGCGCCGGTGCAGTCAC  
 CGTGCTCAAGGCTCCTAATCGTGAGCTCATGACTACTGGCTACAGGAGCTTCAGCAGAAAAGATGGGAA  
 TATTGCAACAGCCTTGACATGATGAAGTGGACAGCAGGACTTCCCCGACTCCAGGGGATTTTCCAAGG  
 GCCTTGTGGCCAGAGATACCACAGATAAATTTCCAGCACCCAAATCCTTCTGCAGAAAAGCCAGAAC  
 TGTGCTCGCTGTGAAGCTGCCCTGGAGAGCTGGTGGGAGACCGGGCTGCTCATCAGCCAGCTCCCGGG  
 CATCCGAATCCCATCAACTTTTACTCTCTGAAGCAGTGGGGAAAATGAGCTCAAAAATTCATGTCATCAT  
 TCCGCTCTGGGAGAGGGCACAGTGAGAGTCGCAGGACCGTGTTTTACACCAATGAAGAGTGGAACTTCT  
 AGACCCGCTCCTAAGGACCTGGAGGAGTCCCTGGTACCAGAAGAGAGGAAGAAGCCGATGCCTGAGGGC  
 AGTAAAGGAGTCGCTAGTTCAGGATTCCTTTGAATTTGGACGGAACCCCTTACAAGGAAAAGCGCCCT  
 TGAAAGATATAATTGGGTCATACAAAACCGCCACAGCAGTAGTGATCCTTTGCTCGAGGGAAACGGCGAC  
 ATCATCAGGCAGCAGCGGAGTCCCCTAAGCCAGTCCCCGAAATGCAGTGCAGATTCAAAGCCAGCAG  
 GAGGAGCTGGAGCAACTCAAGAAGGACCTATCCAGTCAGAAGGAGCTCATTGGCTGCTCCAGCAGACAG  
 TCCGGTCAATCCCAATATGACAAGTATTTACGAACCCCCAGATCAGCCAGGGGGTCCCCGGGGACACAT  
 GGAGCTCCTGCACCAGAAGGACGAGCAGATCCTGGGCTCAGCGCCAGCTGGAGAGGTTTCGGCCTGGAG  
 AAGGAAAGCCTCCAGCAGGAAGTGGAGCAGCTGAAGAGCAAGGTGGGCGAGCTAACGAGCGGCTCGGCA  
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 ATCACCCACCCTGGGGCCAGCTCTCCTTTGGCCATCCCAGCCAGCAAGGACCAGCTGGAGCTGGACAGG  
 CTAAGATAGTCTGCAAGGGTACAAAAGCCAAAATAAATTTCTAAACAAGGAAATTTTGGAACTCTCGG  
 CTCTACGAAGAAATGCAGAAAGGAGAGAGGGATCTGATGGCTAAGTACTCTAGCCTGGAAGCCAAGCT  
 CTGCCAGGTTGAAAGTAAATACTTGATACTGCTCAAGAATGAAGACACCAGTTTGTCTCAGAGGAACAG  
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 AGCAAGCATTGTTAAGCCTCATCTGGTCAAGTGTGATATCTACGGGTTTAGGACTGTCCCTGATGA  
 TGATGAGGAAGAGAAGTTGGTCGCCAAGGTCAGCAGCTGGACCTGAAGACTCTGTACCTCACAGACAAC  
 CAGGAGGTTTCCACTGGGGTCAAGTGGGAAAATATTTTGGCAGCACAATGAACAGGGAGATGGCATGCT  
 CTCCGGAGCTGAAAAACCTGATCCGAGCAGGCAATCCCCACGAGCACCCTCCAAGGTGTGGAAGTGGT  
 TGTTGACCGTCACACCAGGAAGTCAAGGACAGCATGGAGCCAGACTACTTCCAGACCTTGTGCAGAAG  
 GCTCTGGAGAAACAGAACCCGGCCTCAAGCAGATCGAGCTGGACCTGCTCCGGACTCTGCCAACACA  
 AGCACTACTCCAGCCCCACGTCGGAGGGCATAAGAAGCTGCGCAGTGTCTGCTCGCCTTCTCTGGCC  
 GAATCCCGATATCGGCTACTGCCAAGGCTGAACAGGTTGGTGGCAGTGGCTCTCCTTTACCTGGATCAA  
 GAAGATGCCTTCTGGTGTCTGTTACCATCGTGGAAAGTCTTATGCCCGAGACTATTACACAAAGACTC  
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 CCATTTTGAACAGTACAAGTGGACTACACCCTCATCACCTTCAACTGGTTTCTGGTGGTATTTGTGGAC  
 AGCGTTGTGAGCAGATCCTCTTTAAAATATGGGACTCTTTCCTTTATGAGGGACCAAAGGTTATTTTCC  
 GTTTTGGCCTGGCACTTTTTAAATATAAGGAAGAGGAGATCCTGAAATGCAAGATTCGATGTCCATATT  
 CAAGTATCTGCGTACTTCACTCGGACTATCCTCGATGCCAGGAAGCTGATCAGCATCTCCTTTGGGGAT  
 CTGAACCCCTTCCCCTGCGCCAGATCCGGAACCGGAGAGCCTACCACCTGGAGAAGGTCGGCTGGAGC  
 TGACAGAGCTGGAGGCCATTCGAGAGGACTTCTGCGTGAGCGGGACACTAGCCCTGACAAGGCGAGCT  
 AGTTAGCGATGAGGAGGAAGACACT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG223248 representing NM\_194334  
Red=Cloning site Green=Tags(s)

MPGAGDGVVEESCSGGEGAVPGTGSEAGAVAGREPSRLCGYLQKLSGKGPLRGYRSRWFVDSRRCYLYFF  
 KSPQDALPLGHLDIADACFSYQGRDEAAEPGADPPTHFQVHSAGAVTVLKAPNRELMTYWLQELQQKRWE  
 YCNSLDMMKWDSRTSPTPGDFPKGLVARDTTDII SQHPNPSAEKARTVLA VEAAAGELVGDRAAHQFPAPG  
 HPNPIFYSLKQWGNELKNSMSSFRPGRGHSESRRTVFYTNEEWELLDPPPDKLEESLVPEERKKPMPEG  
 SKGVASSGFPEFGRNPYKGRPLKDIIGSYKNRHSSDPLLEGATSSGSSGGPTKVPPEMQLQIQSQQ  
 EELEQLKKDLSSQKELIRLLQQTVRSSQYDKYFTNPQISQGVPGDTLELLHQKDEQILGLSGQLERFGLE  
 KESLQQEVRTLKSKVGELNERLGMLMETIQAKDEVIKLSACEGSVSSPTLGPSSPLAIPASKDQLELDR  
 LKDSLQGYKSQNKFLNKEILELSALRRNAERRERDLMAKYSSLEAKLCQVESKYL ILLQEMKTPVCSSEEQ  
 GPARDVIAQLLEDALQVESQEQPEQAFVKPHLVSEFDIYGFRTPDDDEEEKLVAKVRALDKTLYLTDN  
 QEVSTGVKWENYFASTMNREMACSPELKNLIRAGIPHEHRSKVWKCVDHRHTRKFKDSMEPDYFQTLQK  
 ALEKQNPASKQIELDLLRTL PNNKHYSSTSEGIQKLRVLLAFSWRNPDI GYCQGLNRL VAVALLYLDQ  
 EDFAWCLVTIVEVFMPDYYTKLLGSQVDQRFVFRDLLSEKLPRLHTHFEQYKVDYTLITFNWFLVVFVD  
 SVVSDILFKIWD SFLYEGPKVIFRFALALFKYKEEELK LQDSMSIFKYLR YFTRTILDARKLISISFGD  
 LNPFPLRQIRNRRAYHLEKVRLELTELEAIREDFLRERDTPDKGELVSDEEEDT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

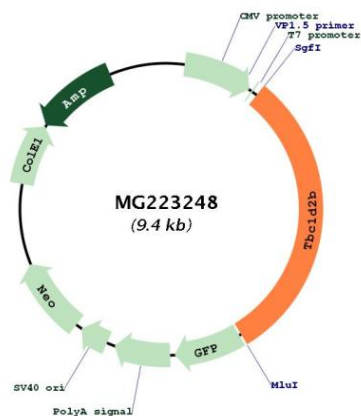


**ACCN:** NM\_194334

**ORF Size:** 2895 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_194334.2</a> , <a href="#">NP_919315.2</a>
<b>RefSeq Size:</b>	5951 bp
<b>RefSeq ORF:</b>	2898 bp
<b>Locus ID:</b>	67016
<b>UniProt ID:</b>	<a href="#">Q3U0J8</a>
<b>Cytogenetics:</b>	9 E3.1
<b>Gene Summary:</b>	May act as a GTPase-activating protein.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG223248