

## Product datasheet for **RG213534**

### TREML2 (NM\_024807) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TREML2 (NM_024807) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TREML2
Synonyms:	C6orf76; dj238O23.1; TLT-2; TLT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213534 representing NM_024807 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATCCCTGCGGTTGGCTGGGGCAGTGGGTCCCACACTGCCTCACTTCCTAAATGGGCAGCTTAC  
TTTTAGAACCCCGGATCCTTCCCTGGCAGGCCAGGTGGCACATCCTGTGTCGGGTGGGCCCTCACCTTG  
GATCTCCAGGCCGACTGACTGCCAGCTGGATGGAACCATGGCCCCAGCCTTCCTGCTGCTGCTGCTGCTG  
TGGCCACAGGGTTGCGTCTCAGGCCCTCTGCTGACAGTGTATACACAAAAGTGAGGCTCCTTGAAGGGG  
AGACTCTGTCTGTGAGTCTCCTATAAGGGCTACAAAAACCGCTGGAGGGCAAGTTTTGGTGAAAAT  
CAGGAAGAAGAAGTGTGAGCCTGGCTTTGCCCGAGTCTGGGTGAAAGGGCCCCGCTACTTGTGCAAGAC  
GATGCCAGGCCAAGGTGGTCAACATCACCATGGTGGCCCTCAAGCTCCAGGACTCAGGCCGATACTGGT  
GCATGCGCAATACCTCTGGGATCCTGTACCCCTTGATGGGCTTCCAGCTGGATGTGTCTCCAGCTCCCCA  
AAGTGAGAGGAACATTCTTTACACATCTGGACAACATCCTCAAGAGTGGAACTGTCAAACTGGCCAA  
GCCCCACCTCAGGCCCTGATGCCCTTTTACCACTGGTGTGATGGTGTTCACCCAGGACTCATCACCT  
TGCTAGGCTCTTAGCCTCCACCAGACCTGCCTCCAAGACAGGCTACAGCTTCACTGCTACCAGCACCAC  
CAGCCAGGGACCCAGGAGGACCATGGGGTCCCAGACAGTGACCGCTCTCCAGCAATGCCAGGGACTCC  
TCTGCTGGCCAGAATCCATCTCCTCAAGTCTGGGGACCTCAGCACCAGATCGCCACCCAGGGCTCT  
GCCTCACCAGCAGATCTCTCCTCAACAGACTACCCTCCATGCCCTCCATCAGGCACCAGGATGTTTACTC  
CACTGTGCTTGGGGTGGTGTGACCCTCCTGGTGTGATGCTGATCATGGTCTATGGGTTTTGGAAGAAG  
AGACACATGGCAAGCTACAGCATGTGCAGCGATCCTTCTACACGTGACCCACCTGGAAGACCAGAGCCCT  
ATGTGGAAGTCTACTTGATC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG213534 representing NM\_024807  
 Red=Cloning site Green=Tags(s)

MNPCGWLGA VGPTLPHFPKWAASLLEPRILPWQAQVAHPVSGGPSWISRPDTAQLDGTMAPAFLLLLLL  
 WPQGCVSGPSADSVYTKVRLLEGETLSVQCSYKGYKNRVEGKVWCKIRKKKCEPGFARVWVKGPYLLQD  
 DAQAKVNIITMVALKLQDSGRYWC MRNTSGILYPLMGFQLDVSPAPQSERNI PFTHLDNILKSGTVTTGQ  
 APTSGPDAPFTTGVMVF TPGLITLPRLLASTRPASKTGYSFTATSTTSQGP RR TMGSQTVTASPNARDS  
 SAGPESISTKSGDLSTRSPTTGLCLTSRLLNRLPSMPSIRHQDVYSTVLGVVLTLLVLMIMVYGFWKK  
 RHMASYSMCDPSTRDPPGRPEPYVEVYLI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_024807

**ORF Size:** 1140 bp

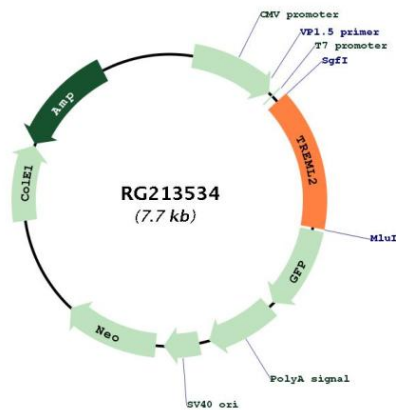
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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>	<u><a href="#">NM_024807.1</a></u> , <u><a href="#">NP_079083.1</a></u>
<b>RefSeq Size:</b>	3071 bp
<b>RefSeq ORF:</b>	966 bp
<b>Locus ID:</b>	79865
<b>UniProt ID:</b>	<u><a href="#">Q5T2D2</a></u>
<b>Cytogenetics:</b>	6p21.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	TREML2 is located in a gene cluster on chromosome 6 with the single Ig variable (IgV) domain activating receptors TREM1 (MIM 605085) and TREM2 (MIM 605086), but it has distinct structural and functional properties (Allcock et al., 2003 [PubMed 12645956]).[supplied by OMIM, Mar 2008]

### Product images:



Circular map for RG213534