

Product datasheet for **RG232061**

TL1A (TNFSF15) (NM_001204344) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TL1A (TNFSF15) (NM_001204344) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TNFSF15
Synonyms: TL1; TL1A; TNLG1B; VEGI; VEGI192A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232061 representing NM_001204344
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAACTCACAAAGGGCCGTCTTCATTTAGTCCACCTTTGTCTCATACAAAGCACATTTCTCCTTTT
 TTACAGATGCACCTTTAGAGCAGACGGAGATAAGCCAAGGGCACACCTGACAGTTGTGAGACAACTCC
 CACACAGCACTTTAAAAATCAGTTCCAGCTCTGCACTGGGAACATGAACTAGGCCTGGCCTTACCAAG
 AACCGAATGAACTATACCAACAAATTCCTGCTGATCCAGAGTCGGGAGACTACTTCATTTACTCCAGG
 TCACATTCGGTGGATGACCTCTGAGTGCAGTGAATCAGACAAGCAGGCCGACCAACAAGCCAGACTC
 CATCACTGTGGTCATACCAAGGTAACAGACAGCTACCCTGAGCCAACCCAGCTCCTCATGGGACCAAG
 TCTGTATGCGAAGTAGGTAGCAACTGGTTCCAGCCATCTACCTCGGAGCCATGTTCTCCTTGAAGAAG
 GGGACAAGCTAATGGTGAACGTGAGTACATCTTTGGTGGATTACACAAAAGAAGATAAACCTTCTT
 TGGAGCCTTCTACTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232061 representing NM_001204344
 Red=Cloning site Green=Tags(s)

MQLTKGRLHFSHPLSHTKHISPFVTDAPLRADGDKPRAHLTVVRQTPQHFKNQFPALHWEHELGLAFTK
 NRMNYTNKFLIPESGDYFIYSQVTFRGMTESECSEIRQAGRPNKPSITVVITKVTDSDYPEPTQLLMGTK
 SVCEVGSNWFQPIYLGAMFSLQEGDKLMVNVSDISLVDYTKEDKTFFGAFLL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



Plasmid Map:



ACCN: NM_001204344

ORF Size: 576 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:	<ol style="list-style-type: none">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:	<u>NM_001204344.1</u> , <u>NP_001191273.1</u>
RefSeq Size:	6412 bp
RefSeq ORF:	579 bp
Locus ID:	9966
UniProt ID:	<u>O95150</u>
Cytogenetics:	9q32
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction
Gene Summary:	<p>The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This protein is abundantly expressed in endothelial cells, but is not expressed in either B or T cells. The expression of this protein is inducible by TNF and IL-1 alpha. This cytokine is a ligand for receptor TNFRSF25 and decoy receptor TNFRSF21/DR6. It can activate NF-kappaB and MAP kinases, and acts as an autocrine factor to induce apoptosis in endothelial cells. This cytokine is also found to inhibit endothelial cell proliferation, and thus may function as an angiogenesis inhibitor. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2011]</p>