

Product datasheet for RG232061

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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 Neo

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG232061 representing NM_001204344
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCAACTCACAAAGGGCCGTCTTCATTTCAGTCACCCTTTGTCTCATACAAAGCACATTTCTCCTTTTG
TTACAGATGCACCTCTTAGAGCAGACGGAGATAAGCCAAGGGCACACCTGACAGTTGTGAGACAAACTCC
CACACAGCACTTTAAAAATCAGTTCCCAGCTCTGCACTGGGAACATGAACTAGGCCTGGCCTTCACCAAG
AACCGAATGAACTATACCAACAAATTCCTGCTGATCCCAGAGTCGGGAGACTACTTCATTTACTCCCAGG
TCACATTCCGTGGGATGACCTCTGAGTGCAGTGAAATCAGACAAGCCGACCCAAACAAGCCAGACTC
CATCACTGTGGTCATCACCAAGGTAACAGACAGCTACCCTGAGCCAACCCAGCTCCTCATGGGGACCAAG
TCTGTATGCGAAGTAGGTAGCAACTGGTTCCAGCCCATCTACCTCGGAGCCATGTTCTCCTTGCAAGAAG
GGGACAAGCTAATGGTGAACGTCAGTGACATCTCTTTTGGTGGATTACACAAAAAGAAGATAAAACCTTCTT

TGGAGCCTTCTTACTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232061 representing NM_001204344

Red=Cloning site Green=Tags(s)

MQLTKGRLHFSHPLSHTKHISPFVTDAPLRADGDKPRAHLTVVRQTPTQHFKNQFPALHWEHELGLAFTK NRMNYTNKFLLIPESGDYFIYSQVTFRGMTSECSEIRQAGRPNKPDSITVVITKVTDSYPEPTQLLMGTK

SVCEVGSNWFQPIYLGAMFSLQEGDKLMVNVSDISLVDYTKEDKTFFGAFLL

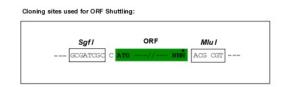
TRTRPLE - GFP Tag - V

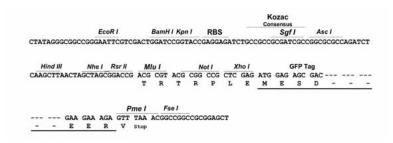
Restriction Sites: Sgfl-Mlul



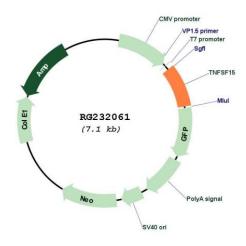


Cloning Scheme:





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).



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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: <u>NM 001204344.1</u>, <u>NP 001191273.1</u>

 RefSeq Size:
 6412 bp

 RefSeq ORF:
 579 bp

 Locus ID:
 9966

 UniProt ID:
 095150

 Cytogenetics:
 9q32

Protein Families: Druggable Genome, Transmembrane
Protein Pathways: Cytokine-cytokine receptor interaction

Gene Summary: 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]