

OriGene Technologies, Inc.

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Product datasheet for RG212624

TGF beta 2 (TGFB2) (NM_003238) Human Tagged ORF Clone

Product data:

| Product Type: | Expression Plasmids |
|------------------------------|---|
| Product Name: | TGF beta 2 (TGFB2) (NM_003238) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | TGF beta 2 |
| Synonyms: | G-TSF; LDS4; TGF-beta2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | <pre>>RG212624 representing NM_003238 Red=Cloning site Blue=ORF Green=Tags(s)</pre> |
| | TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C |
| | ATGCACTACTGTGTGCTGAGCGCTTTTCTGATCCTGCATCTGGTCACGGTCGCGCTCAGCCTGTCTACCT |

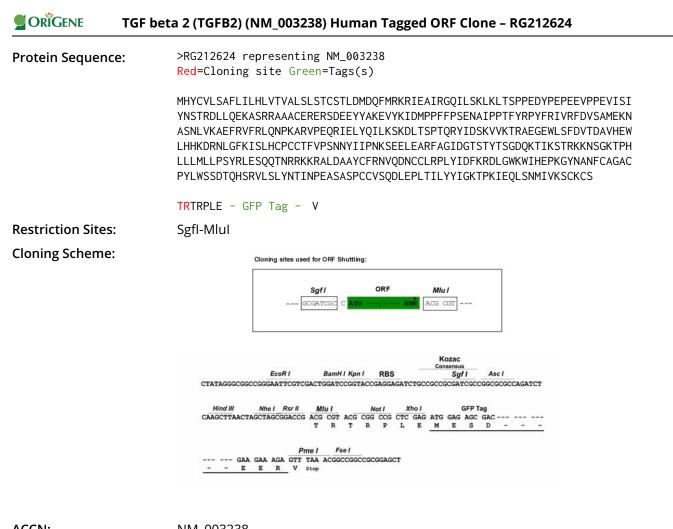
TCTACCT GCAGCACACTCGATATGGACCAGTTCATGCGCAAGAGGATCGAGGCGATCCGCGGGCAGATCCTGAGCAA GCTGAAGCTCACCAGTCCCCCAGAAGACTATCCTGAGCCCGAGGAAGTCCCCCCGGAGGTGATTTCCATC TACAACAGCACCAGGGACTTGCTCCAGGAGAAGGCGAGCCGGAGGGCGGCCGCCTGCGAGCGCGAGAGGA GCGACGAAGAGTACTACGCCAAGGAGGTTTACAAAATAGACATGCCGCCCTTCTTCCCCTCCGAAAATGC CATCCCGCCCACTTTCTACAGACCCTACTTCAGAATTGTTCGATTTGACGTCTCAGCAATGGAGAAGAAT GCTTCCAATTTGGTGAAAGCAGAGTTCAGAGTCTTTCGTTTGCAGAACCCAAAAGCCAGAGTGCCTGAAC AACGGATTGAGCTATATCAGATTCTCAAGTCCAAAGATTTAACATCTCCAACCCAGCGCTACATCGACAG CAAAGTTGTGAAAAACAAGAGCAGAAGGCGAATGGCTCTCCTTCGATGTAACTGATGCTGTTCATGAATGG CTTCACCATAAAGACAGGAACCTGGGATTTAAAATAAGCTTACACTGTCCCTGCTGCACTTTTGTACCAT CTAATAATTACATCATCCCAAATAAAAGTGAAGAACTAGAAGCAAGATTTGCAGGTATTGATGGCACCTC CTCCTGCTAATGTTATTGCCCTCCTACAGACTTGAGTCACAACAGACCAACCGGCGGAAGAAGCGTGCTT TGGATGCGGCCTATTGCTTTAGAAATGTGCAGGATAATTGCTGCCTACGTCCACTTTACATTGATTTCAA GAGGGATCTAGGGTGGAAATGGATACACGAACCCAAAGGGTACAATGCCAACTTCTGTGCTGGAGCATGC CCGTATTTATGGAGTTCAGACACTCAGCACAGCAGGGTCCTGAGCTTATATAATACCATAAATCCAGAAG CATCTGCTTCTCCTTGCTGCGTGTCCCAAGATTTAGAACCTCTAACCATTCTCTACTACATTGGCAAAAC ACCCAAGATTGAACAGCTTTCTAATATGATTGTAAAGTCTTGCAAATGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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| ACCN: | NM_003238 |
|-----------------|--|
| ORF Size: | 1242 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 <u>custsupport@origene.com</u> 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. <u>More info</u> |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| | |

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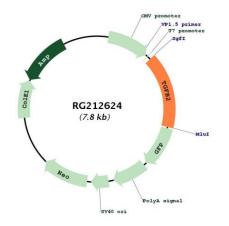
| TGF beta 2 (TGFB2) (NM_003238) Human Tagged ORF Clone – RG212624 | |
|---|---|
| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |
| Reconstitution Method: | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 003238.6</u> |
| RefSeq Size: | 1695 bp |
| RefSeq ORF: | 1245 bp |
| Locus ID: | 7042 |
| UniProt ID: | <u>P61812</u> |
| Cytogenetics: | 1q41 |
| Domains: | TGFb_propeptide, TGF-beta |
| Protein Families: | Druggable Genome, Secreted Protein, Transmembrane |
| Protein Pathways: | Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Cytokine-cytokine receptor interaction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, Renal cell carcinoma, TGF-beta signaling pathway |
| Gene Summary: | This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGF-beta family members. Disruption of the TGF-beta/SMAD pathway has been implicated in a variety of human cancers. A chromosomal translocation that includes this gene is associated with Peters' anomaly, a congenital defect of the anterior chamber of the eye. Mutations in this gene may be associated with Loeys-Dietz syndrome. This gene encodes multiple isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Aug 2016] |

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Product images:



Circular map for RG212624

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