

Product datasheet for **RG233810**

RANK (TNFRSF11A) (NM_001270950) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | RANK (TNFRSF11A) (NM_001270950) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | RANK |
| Synonyms: | CD265; FEO; LOH18CR1; ODFR; OFE; OPTB7; OST5; PDB2; RANK; TRANCE-R; TRANCER |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG233810 representing NM_001270950 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCGCGCGCCCGGCGGCCGCCCGCTGTTTCGCGCTGCTGCTGCTCTGCGCGCTGCTCGCCCCGGC
TGCAGGTGGCTTTCAGATCGCTCCTCCATGTACCAGTGAGAAGCATTATGAGCATCTGGGACGGTGTCTG
TAACAAATGTGAACCAGGAAAGTACATGTCTTCTAAATGCACTACTACCTCTGACAGTGTATGTCTGCC
TGTGGCCCGGATGAATACTTGGATAGCTGGAATGAAGAAGATAAATGCTTGTGCATAAAGTTTGTGATA
CAGGCAAGGCCCTGGTGGCCGTGGTCGCCGGAACAGCAGCACGCCCCCGCGCTGCGCGTGCACGGCTGG
GTACCACTGGAGCCAGGACTGCGAGTGTGCCGCCGAACACCGAGTGGCGCGCCGGCCTGGGCGCCAG
CACCCGTTGCAGCTCAACAAGGACACAGTGTGCAAACCTTGCCCTTGCAGGCTACTTCTCTGATGCCTTT
CCTCCACGGACAAATGCAGACCTGGACCAACTGTACCTTCTTGGAAAGAGAGTAGAACATCATGGGAC
AGAGAAATCCGATGCGGTTTGCAGTTCTTCTCTGCCAGCTAGAAAACCACCAATGAACCCCATGTTTAC
TTGCCCGTTTAAATAATTCTGCTTCTTTCGCGTCTGTGGCCCTGGTGGCTGCCATCATCTTTGGCGTT
GCTATAGGAAAAAAGGAAAGCACTCACAGGAAATGTGACTGGAAACAGTAACTCCACGTTTATCCAG
CGGGCAGGTGATGAACTCAAGGGCGACATCATCGTGGTCTACGTCAGCCAGACCTCGCAGGAGGGCGCG
CGGCGGCTGCGGAGCCATGGGCCGCCCGGTGCAGGAGGAGACCCTGGCGCGCCGAGACTCCTTCGCGG
GGAACGGCCCGCGCTTCCCGGACCCGTGCGGCCGCCCGGAGGGGCTGCGGAGCCGGAGAAGGCCTCGAG
GCCGTTGCAGGAGCAAGCGGGGCAAGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG233810 representing NM_001270950
 Red=Cloning site Green=Tags(s)

MAPRRRRRPLFALLLLCALLARLQVALQIAPPCTSEKHYEHLGRCCNKCEPGKYMSSKCTTTSDSVCLP
 CGPDEYLDWNEEDKLLHKVCDTGKALVAVVAGNSTTPRRCACTAGYHWSQDCECCRRNTECAPGLGAQ
 HPLQLNKDVTCKPCLAGYFSDAFSSTDKCRPWTNCTFLGKRVEHHGTEKSDAVCSSSLPARKPPNEPHVY
 LPGLIILLFASVALVAIIFGVCYRKKGKALTGNTGNSNSTFISSGQVMNFKGDIIVVYVSQTSQEGA
 AAAAEPMGRPVEETLARRDSFAGNGPRFPDPCGGPEGLREPEKASRPVQEQQGAKA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001270950

ORF Size: 1011 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:

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: [NM_001270950.1](#), [NP_001257879.1](#)

RefSeq Size: 3756 bp

RefSeq ORF: 1014 bp

Locus ID: 8792

UniProt ID: [Q9Y6Q6](#)

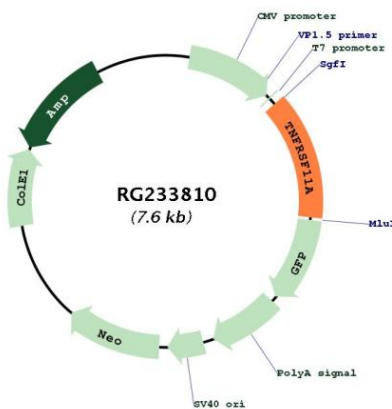
Cytogenetics: 18q21.33

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction

Gene Summary: The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptors can interact with various TRAF family proteins, through which this receptor induces the activation of NF-kappa B and MAPK8/JNK. This receptor and its ligand are important regulators of the interaction between T cells and dendritic cells. This receptor is also an essential mediator for osteoclast and lymph node development. Mutations at this locus have been associated with familial expansile osteolysis, autosomal recessive osteopetrosis, and Paget disease of bone. Alternatively spliced transcript variants have been described for this locus. [provided by RefSeq, Aug 2012]

Product images:



Circular map for RG233810