

## Product datasheet for **RG233585**

### **RANK (TNFRSF11A) (NM\_001270949) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RANK (TNFRSF11A) (NM_001270949) 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:	>RG233585 representing NM_001270949 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCCGCGCGCCCGGCGGCCGCCCGCTGTTGCGGCTGCTGCTGCTCTGCGCGCTGCTCGCCCCGC  
TGCAGGTGGCTTTCAGATCGCTCCTCCATGTACCAGTGAGAAGCATTATGAGCATCTGGACGGTGTCTG  
TAACAAATGTGAACCAGGAAAGTACATGTCTTCTAAATGCACTACTACCTCTGACAGTGTATGTCTGCC  
TGTGGCCCGGATGAATACTTGGATAGCTGGAATGAAGAAGATAAATGCTTGTGCATAAAGTTTGTGATA  
CAGGCAAGGCCCTGGTGGCCGTGGTCGCCGGAACAGCAGCACGCCCGCGCTGCGCGTGCACGGCTGG  
GTACCACTGGAGCCAGGACTGCGAGTGTGCCGCCGAACACCGAGTGGCGCGCCGGCCTGGGCGCCAG  
CACCCGTTGCAGCTCAACAAGGACACAGTGTGCAAACCTTGCCCTTGCAGGCTACTTCTCTGATGCCTTT  
CCTCCACGGACAAATGCAGACCCCTGGACCAACTGTACCTTCTTGAAAGAGAGTAGAACATCATGGGAC  
AGAGAAATCCGATGCGGTTTGCAGTTCTTCTCTGCCAGCTAGAAAACCACCAATGAACCCCATGTTTAC  
TTGCCCGTTTAAATAATTCTGCTTCTCTCGCGTCTGTGGCCCTGGTGGCTGCCATCATCTTTGGCGTT  
GCTATAGGAAAAAAGGAAAGCACTCACAGCTAATTTGTGGCACTGGATCAATGAGGCTTGTGGCCGCT  
AAGTGGAGATAAGGAAATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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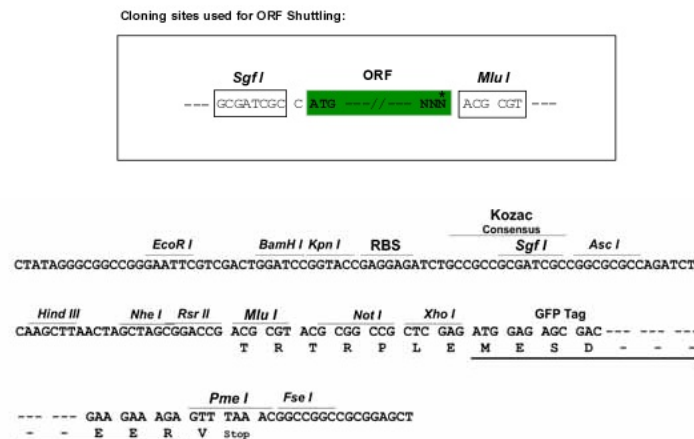
**Protein Sequence:** >RG233585 representing NM\_001270949  
 Red=Cloning site Green=Tags(s)

MAPRRRRRPLFALLLLCALLARLQVALQIAPPCTSEKHYEHLGRCCNKCEPGKYMSSKCTTTSDSVCLP  
 CGPDEYLDSWNEEDKLLHKVCDTGKALVAVVAGNSTTPRRCACTAGYHWSQDCECCRRNTECAPGLGAQ  
 HPLQLNKDVTCKPCLAGYFSDAFSSTDKCRPWTNCTFLGKRVEHHGTEKSDAVCSSSLPARKPPNEPHVY  
 LPGLIILLFFASVALVAIIFGVCYRKKGKALTANLWHWINEACGRLSGDKEM

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001270949

**ORF Size:** 789 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\\_001270949.1](#), [NP\\_001257878.1](#)

**RefSeq Size:** 3809 bp

**RefSeq ORF:** 792 bp

**Locus ID:** 8792

**UniProt ID:** [Q9Y6Q6](#)

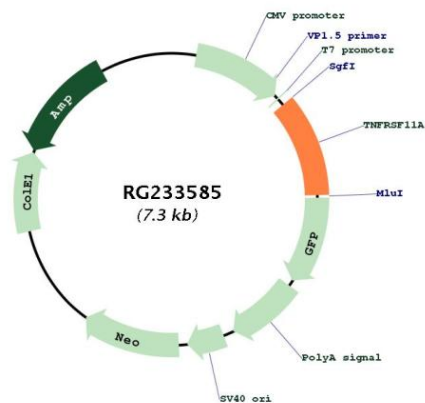
**Cytogenetics:** 18q21.33

**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 RG233585