

## Product datasheet for **RC233585**

### **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:** Myc-DDK  
**Symbol:** RANK  
**Synonyms:** CD265; FEO; LOH18CR1; ODFR; OFE; OPTB7; OST5; PDB2; RANK; TRANCE-R; TRANCER  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233585 representing NM\_001270949  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCCGCGCGCCCGGCGGCCGCCCGCTGTTGCGGCTGCTGCTGCTGCTGCGCGCTGCTCGCCCCGC  
TGCAGGTGGCTTTCAGATCGCTCCTCCATGTACCAGTGAGAAGCATTATGAGCATCTGGACGGTGCTG  
TAACAAATGTGAACCAGGAAAGTACATGTCTTCTAAATGCACTACTACCTCTGACAGTGTATGTCTGCC  
TGTGGCCCGGATGAATACTTGGATAGCTGGAATGAAGAAGATAAATGCTTGTGCATAAAGTTTGTGATA  
CAGGCAAGGCCCTGGTGGCCGTGGTCGCCGGAACAGCAGCACGCCCGCGCTGCGCGTGCACGGCTGG  
GTACCACTGGAGCCAGGACTGCGAGTGTGCCGCCGAACACCGAGTGCAGCGCCGGCCTGGGCGCCAG  
CACCCGTTGCAGCTCAACAAGGACACAGTGTGCAAACCTTGCCCTTGCAGGCTACTTCTCTGATGCCTTT  
CCTCCACGGACAAATGCAGACCCCTGGACCAACTGTACCTTCTTGGAAAGAGAGTAGAACATCATGGGAC  
AGAGAAATCCGATGCGGTTTGCAGTTCTTCTCTGCCAGCTAGAAAACCACCAATGAACCCCATGTTTAC  
TTGCCCGTTTAAATAATTCTGCTTCTTCCGCTGTGGCCCTGGTGGCTGCCATCATCTTTGGCGTTT  
GCTATAGGAAAAAGGAAAGCACTCACAGCTAATTTGTGGCACTGGATCAATGAGGCTTGTGGCCGCT  
AAGTGGAGATAAGGAAATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC233585 representing NM\_001270949  
Red=Cloning site Green=Tags(s)

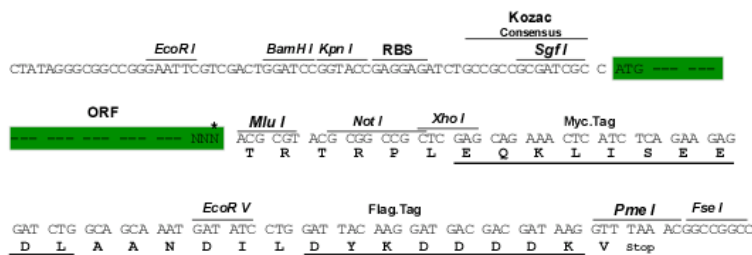
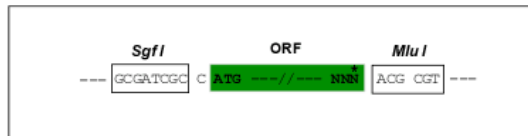
MAPRARRRRPLFALLLLCALLARLQVALQIAPPCTSEKHYEHLGRCCNKCEPGKYMSSKCTTTSDSVCLP  
 CGPDEYLDWNEEDKLLHKVCDTGKALVAVVAGNSTTPRRCACTAGYHWSQDCECCRRNTECAPGLGAQ  
 HPLQLNKDVTCKPCLAGYFSDAFSSTDKCRPWTNCTFLGKRVEHHGTEKSDAVCSSSLPARKPPNEPHVY  
 LPGLIILLFFASVALVAIIFGVCYRKKGKALTANLWHWINEACGRLSGDKEM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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

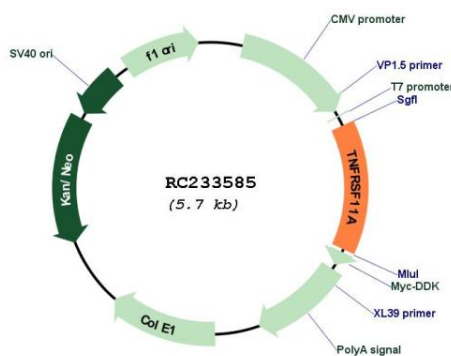
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Cytokine-cytokine receptor interaction

**MW:** 29.4 kDa

**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 RC233585