

Product datasheet for **SC333012**

RANK (TNFRSF11A) (NM_001270949) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: RANK (TNFRSF11A) (NM_001270949) Human Untagged Clone
Tag: Tag Free
Symbol: RANK
Synonyms: CD265; FEO; LOH18CR1; ODFR; OFE; OPTB7; OST5; PDB2; RANK; TRANCE-R; TRANCER
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC333012 representing NM_001270949.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCCCCGCGCGCCCGGCGCGCCGCCGCTGTTGCGCGCTGCTGCTGCTGCTGCGCGCTGCTGCGCCGG
CTGCAGGTGGCTTGCAGATCGCTCCTCCATGTACCAAGTGAAGCATTATGAGCATCTGGGACGGTGC
TGTAACAAATGTGAACCAGGAAAGTACATGTCTTCTAAATGCACTACTACCTCTGACAGTGTATGCTG
CCCTGTGGCCCGGATGAATACTTGGATAGCTGGAATGAAGAAGATAAATGCTTGTGCATAAAGTTTGT
GATACAGGCAAGGCCCTGGTGGCCGTGGTCCGCGCAACAGCACGACCCCGGCGCTGCGCGTGCACG
GCTGGGTACCACTGGAGCCAGGACTGCGAGTGTGCCCGCAACACCGAGTGCAGCGCCGGGCTGGGC
GCCAGCACCCGTTGCAGCTCAACAAGGACACAGTGTGCAAAACCTTGCCTTGCAGGCTACTTCTCTGAT
GCCTTTTCTCCACGGACAAATGCAGACCTGGACCAACTGTACCTTCTTGGAAAGAGAGTAGAACAT
CATGGGACAGAGAAATCCGATGCGGTTTGCAGTCTTCTCTGCCAGCTAGAAAACCAAAATGAACCC
CATGTTTACTTGGCCGTTTAAATAATTCTGCTTCTCTTCCGCTGTGGCCCTGGTGGCTGCCATCATC
TTTGGCGTTTGTATAGGAAAAAGGAAAGCACTCACAGCTAATTTGTGGCACTGGATCAATGAGGCT
TGTGGCCGCTAAGTGGAGATAAGGAAATGTGA
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Restriction Sites: Sgfl-Mlul
ACCN: NM_001270949
Insert Size: 792 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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: [NM_001270949.1](#)

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 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]

Transcript Variant: This variant (2, also known as delta9) lacks an exon in the 3' coding region, which results in a frameshift, compared to variant 1. It encodes isoform 2, which has a shorter and distinct C-terminus, compared to isoform 1.