

Product datasheet for **SC333013**

RANK (TNFRSF11A) (NM_001270950) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: RANK (TNFRSF11A) (NM_001270950) 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: >SC333013 representing NM_001270950.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCCCCGCGCGCCCGGCGCGCCCGCTGTTGCGCGTCTGCTGCTCTGCGCGTCTGCGCCGG
CTGCAGGTGGCTTTCAGATCGCTCCTCCATGTACCAGTGAGAAGCATTATGAGCATCTGGGACGGTGC
TGTAACAAATGTGAACCAGGAAAGTACATGTCTTCTAAATGCACTACTACCTCTGACAGTGTATGCTG
CCCTGTGGCCCGGATGAATACTTGGATAGCTGGAATGAAGAAGATAAATGCTTGTGCATAAAGTTGT
GATACAGGCAAGGCCCTGGTGGCCGTGGTCCCGGCAACAGCACGACCCCGGCGCTGCGCGTGCACG
GCTGGGTACCCTGGAGCCAGGACTGCGAGTGTGCCCGCAACACCGAGTGCAGCGCCGGGCTGGGC
GCCAGCACCCGTTGCAGCTCAACAAGGACACAGTGTGCAAACTTGCCTTGCAGGCTACTTCTCTGAT
GCCTTTTCTCCACGGACAAATGCAGACCTGGACCAACTGTACCTTCTTGGAAAGAGAGTAGAACAT
CATGGGACAGAGAAATCCGATGCGGTTTGCAGTCTTCTCTGCCAGCTAGAAAACCAAAATGAACCC
CATGTTTACTTGGCCGTTTAAATAATTCTGCTTCTTTCGCGTCTGTGGCCCTGGTGGCTGCCATCATC
TTTGGCGTTTGTATAGGAAAAAGGAAAGCACTCACAGGAAATGTGACTGGAACAGTAACTCCAGC
TTCATCTCCAGCGGCAGGTGATGAACTCAAGGGCGACATCATCGTGGTCTACGTCAGCCAGACCTCG
CAGGAGGGCGCGCGCGGCTGCGGAGCCATGGGCCCGCCGTCAGGAGGAGACCCTGGCGCGCCGA
GACTCTTCGCGGGGAACGGCCCGCTTCCCGACCCGTGCGCGGCCCGGAGGGGCTGCGGGAGCCG
GAGAAGGCTCGAGGCCGTCAGGAGCAAGCGGGCCAAAGGCTTGA
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Restriction Sites: SgfI-MluI
ACCN: NM_001270950
Insert Size: 1014 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).



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](#)

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

MW: 36.4 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]

Transcript Variant: This variant (3, also known as delta8,9) lacks two exons in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 3), compared to isoform 1.