

## Product datasheet for **SC333014**

### **RANK (TNFRSF11A) (NM\_001270951) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RANK (TNFRSF11A) (NM\_001270951) 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:** >SC333014 representing NM\_001270951.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGGCCCCGCGCGCCCGCGCGCCCGCCGCTGTTGCGCGCTGCTGCTGCTCTGCGCGCTGCTCGCCCCG
CTGCAGGTGGCTTTCAGATCGCTCCTCCATGTACCAAGTGAAGCATTATGAGCATCTGGGACGGTGC
TGTAACAAATGTGAACCAGGAAAGTACATGTCTTCTAAATGCACTACTACCTCTGACAGTGTATGCTG
CCCTGTGGCCCGGATGAATACTTGGATAGCTGGAATGAAGAAGATAAATGCTTGTGCATAAAGTTTGT
GATACAGGCAAGGCCCTGGTGGCCGTGGTCCCGGCAACAGCACGACCCCGCGCGCTGCGCGTGCACG
GCTGGGTACCACTGGAGCCAGGACTGCGAGTGCTGCCCGCAACACCGAGTGCGCGCCGGGCTGGGC
GCCCAGCACCCGTTGCAGCTCAACAAGGACACAGTGTGCAAACTTGCCTTGCAGGCTACTTCTCTGAT
GCCTTTTCTCCACGGACAAATGCAGACCTGGACCAACTGTACCTTCTTGGAAAGAGAGTAGAACAT
CATGGGACAGAGAAATCCGATGCGGTTTGCAGTCTTCTCTGCCAGCTAGAAAACCCAAATGAAAT
GTGACTGGAAACAGTAACTCCACGTTTCTCCAGCGGGCAGGTGATGAACCTCAAGGGCGACATCATC
GTGGTCTACGTACGCCAGACCTCGCAGGAGGGCGCGCGCGGCTGCGGAGCCATGGGCCCGCCGGTG
CAGGAGGAGACCCCTGGCGCGCCGAGACTCCTTCGCGGGGAACGGCCCGCGCTTCCCGACCCGTGCGGC
GGCCCCGAGGGGCTGCGGGAGCCGGAAGGCCTCGAGGCCGTTGCAAGGCAAGGCGGGGCCAAGGCT
TGA
  
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001270951  
**Insert Size:** 900 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\\_001270951.1](#)

**RefSeq Size:** 3642 bp

**RefSeq ORF:** 900 bp

**Locus ID:** 8792

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

**Cytogenetics:** 18q21.33

**Protein Families:** Druggable Genome, Transmembrane

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

**MW:** 32.3 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 (4, also known as delta7,8,9) lacks three exons in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 4), compared to isoform 1.