

## Product datasheet for **SC117707**

### **RANK (TNFRSF11A) (NM\_003839) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RANK (TNFRSF11A) (NM_003839) Human Untagged Clone
Tag:	Tag Free
Symbol:	RANK
Synonyms:	CD265; FEO; LOH18CR1; ODFR; OFE; OPTB7; OST5; PDB2; RANK; TRANCE-R; TRANCER
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_003839 unedited NNCCCCGCTATCGCTATGNNACCGCGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCGGGTTTCCTTTTTCTTTCTTTAGAAAA TGAGAATATAGAACATTTTTCAGAATATGAAAGTCCCACCACATGTTCTAGCAACTTAA CAACTATCTCCAGGCCTCACATGTTTAGCCCTTCCAAAAAGTGTTCACAATGAACACAC CCTGGGAAAGCCATCTCTAAAACACTGGGAGCAGGGGCACAAAAAATAACCTAAAGCA GGCCCGCGGGGGGCTCACCCCTGTAATCCAGTACTTTGGGAGGCCAGGCTGGAGGAC TGCTTTACCTGGGGAGTTTGAGACCCGGCTGGGTAAACATGGGGGACCGGCTCTCTGGGG GGGGAGTCCGGGGAGGAAACTGGGCTGGCCCGAGCTGGGATCCCACCTACTTCCGAA GGGGGGGGGGAGGATCACTTTGGTTGGTTGAGCCCCAGTTGGTCAAAAAAGGAGAACAA AAGGGGAAGAGCAAAAGAAGGGACCTCCCTTTTGGGAAAATTTGAAAAACCCTTTC TTTAAAAAGGAGGGGCGAAAGAATTTAGAAAAGCTCTCTAAAGGAATCACAAATTGGG GGGGAAAAAAAACCCCCCCCCCAAAAAAAGGCGAGTCCCTATAAAATCGGTGGTC TTATTGCCACAATTAATCGGTGGAGATCTGTGAGGGGGGGTGGAGGGAACATTGGCCT AAGGGTGGGGGGTGTGCTTTCAACCCCGGGTGGGGGACTCTTCCCTTATTCTTC TTTGTAAACCTATTTCTGGTGCGGCGAGGGGGGCGCAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003839
<b>Insert Size:</b>	2900 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_003839.2, NP_003830.1</u>
<b>RefSeq Size:</b>	3133 bp
<b>RefSeq ORF:</b>	1851 bp
<b>Locus ID:</b>	8792
<b>UniProt ID:</b>	<u>Q9Y6Q6</u>
<b>Cytogenetics:</b>	18q21.33

<b>Domains:</b>	TNFR
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>