

## Product datasheet for **RC221263**

### **RANK (TNFRSF11A) (NM\_003839) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RANK (TNFRSF11A) (NM_003839) 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)



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**ORF Nucleotide Sequence:**

>RC221263 representing NM\_003839  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCCCGCGCGCCCGGCGCGCCCGCTGTTCGCGTGTCTGCTGCTGCTGCGCGCTGCTCGCCCGG  
 TGCAGGTGGCTTTCAGATCGCTCCTCCATGTACCAGTGAGAAGCATTATGAGCATCTGGGACGGTGCTG  
 TAACAAATGTGAACCAGGAAAGTACATGTCTTCTAAATGCACTACTACCTCTGACAGTGTATGTCTGCC  
 TGTGGCCCGATGAATACTTGGATAGCTGGAATGAAGAAGATAAATGCTTGTGCATAAAGTTTGTGATA  
 CAGGCAAGGCCCTGGTGGCCGTGGTCGCCGCAACAGCACGACCCCGCGCTGCGCGTGCACGGCTGG  
 GTACCACTGGAGCCAGGACTGCGAGTGTGCCGCCAACACCGAGTGCAGCGCCGGGCTGGGCGCCAG  
 CACCCGTGACAGTCAACAAGGACACAGTGTGCAAACTTGCCTTGACAGGCTACTTCTGATGCCTTTT  
 CCTCCACGGACAAATGCAGACCTGGACCAACTGTACCTTCTTGAAAGAGAGTGAACATCATGGGAC  
 AGAGAAATCCGATGCGGTTTGCAGTCTTCTCTGCCAGTAGAAAACACCAAATGAACCCCATGTTTAC  
 TTGCCCGTTTAAATAATTCTGCTTCTTCTCGCTGTGGCCCTGGTGGCTGCCATCATCTTTGGCGTTT  
 GCTATAGGAAAAAGGAAAGCACTCACAGCTAATTTGTGGCACTGGATCAATGAGGCTTGTGGCCGCT  
 AAGTGGAGATAAGGAGTCTCAGGTGACAGTGTGTGTCAGTACACACAGGCAAACTTTGGTCAAGGGA  
 GCATGTGAAGGTGCTTACTGCTGACTCTGGAGGAGAAGACATTTCCAGAAGATATGTGCTACCCAGATC  
 AAGGTGGTGTCTGTCAAGGACAGTGTGTAGGAGTGGTCCCTACGCACAAGGCGAAGATGCCAGGATGCT  
 CTCATTGGTCAAGACCGAGATAGAGGAAGACAGCTTACAGACAGATGCCACAGAAGATGAATACATG  
 GACAGGCCCTCCAGCCACAGACCACTACTGTTCTCTACTGAGCCTGGAAGCAAATCCACACCTCCTT  
 TCTCTGAACCCCTGGAGTGGGGAGAATGACAGTTTAAAGCCAGTCTTACGGGGACACAGACACAGT  
 GGGTTCAAGAAAGCTGCAACTGCACTGAGCCCTGTGCAGGACTGATTGGACTCCCATGTCCTCTGAAAC  
 TACTTGCAAAAAGAGGTGGACAGTGGCCATTGCCCGCACTGGGCAGCCAGCCCACTGGGCGAG  
 ATGTCTGCACAGGCTGCCGAACCTCCTGGGAGGACTGTGAACCCCTCGTGGGTTCCCAAAACGTGG  
 ACCCTTGCCCACTGCGCCTATGGCATGGGCTTCCCTTGAAGAAGAAGCCAGCAGGACGGAGGCCAGA  
 GACCAGCCGAGGATGGGCTGATGGGAGGCTCCAAGCTCAGCGAGGGCAGGTGCCGGTCTGGAAGCT  
 CCCCTGGTGGCCAGTCCCCTGCATCTGAAATGTGACTGGAACAGTAACCTCACGTTTCTCTCCAGCGG  
 GCAGGTGATGAATTCAGGGCGACATCATCGTGGTCTACGTGAGCCAGACCTCGCAGGAGGGCGCGGG  
 GCGGCTGCGGAGCCATGGGCCCGCGGTGACAGGAGAGACCCTGGCGCGCCGAGACTCCTTCGCGGGGA  
 ACGGCCCGCGCTTCCCGAACCCGTGCGGGCGCCCGAGGGGCTGCGGGAGCCGGAGAAGGCTCGAGGCC  
 GGTGCAGGAGCAAGGCGGGGCAAGGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC221263 representing NM\_003839  
 Red=Cloning site Green=Tags(s)

MAPRRRRRPLFALLLLCALLARLQVALQIAPPCTSEKHVEHLGRCCNKCEPGKYMSSKCTTTSDSVCLP  
 CGPDEYLDWNEEDKLLHKVCDTGKALVAVVAGNSTTPRRCACTAGYHWSQDCECCRRNTECAPGLGAQ  
 HPLQLNKDVTCKPCLAGYFSDAFSSTDKCRPWTNCTFLGKRVEHHGTEKSDAVCSSLPARKPPNEPHVY  
 LPGLIILLFASVALVAIIFGVYRKKGKALTANLWHWINEACGRLSGDKESSGSCVSTHTANFGQQG  
 ACEGVLTLLEKTFPEDMCYPDQGGVCGTGVGGPYAQGEDARMLSLVSKTEIEEDSFRQMPTEDEYM  
 DRPSQPTDQLFLTEPGSKSTPPFSEPLEVGENDSLQCFGTGTQSTVGSESCNCTEPLCRTDWTMPSEN  
 YLQKEVDSGHCPHWAASPSNWADVCTGCRNPPGEDCEPLVGSPPKRGPLPQCAVGMGLPPEEASRTEAR  
 DQPEDGADGRLPSSARAGAGSGSSPGGQSPASGNVTGNSNSTFISSQVMNFKGDIIVVYVSQTSQEGAA  
 AAAPMGRPVEETLARRDSFAGNGPRFPDPCGGPEGLREPEKASRPVQEQGGA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDK

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6207\\_f10.zip](https://cdn.origene.com/chromatograms/mk6207_f10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003839

**ORF Size:** 1848 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\\_003839.1](#)

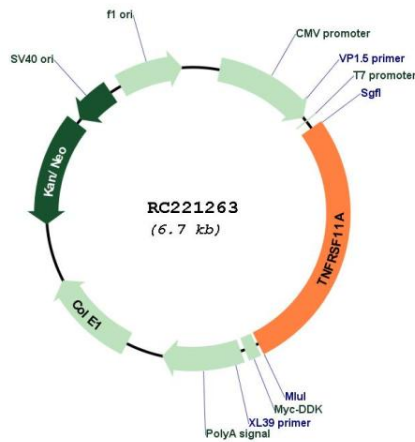
**RefSeq Size:** 3133 bp

**RefSeq ORF:** 1851 bp

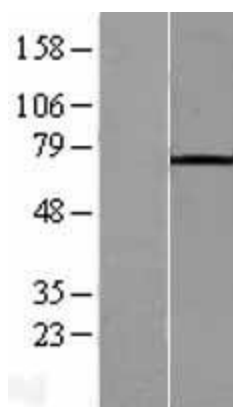
**Locus ID:** 8792  
**UniProt ID:** [Q9Y6Q6](#)  
**Cytogenetics:** 18q21.33  
**Domains:** TNFR  
**Protein Families:** Druggable Genome, Transmembrane  
**Protein Pathways:** Cytokine-cytokine receptor interaction  
**MW:** 66.03 kDa

**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 RC221263



Western blot validation of overexpression lysate (Cat# [LY418399]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221263 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).