

Product datasheet for **RC239054**

RANK (TNFRSF11A) (NM_001278268) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RANK (TNFRSF11A) (NM_001278268) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TNFRSF11A
Synonyms:	CD265; FEO; LOH18CR1; ODFR; OFE; OPTB7; OST5; PDB2; RANK; TRANCE-R; TRANCER
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC239054 representing NM_001278268
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCCGCGCGCCCGGCGCGCCCGCTGTTCGCGTGTCTGCTGCTGCTGCGCGCTGCTCGCCCGG
 TGCAGGTGGCTTTCAGATCGCTCCTCCATGTACCAAGTGAAGAAGCATTATGAGCATCTGGGACGGTGCTG
 TAACAAATGTGAACAGGAAAGTACATGTCTTCTAAATGCACTACTACCTCTGACAGTGTATGTCTGCC
 TGTGGCCCGGATGAATACTTGGATAGCTGGAATGAAGAAGATAAATGCTTGTGCATAAAGTTTGTGATA
 CAGGCAAGGCCCTGGTGGCCGTGGTCCGCGCAACAGCACGACCCCGCGCTGCGCGTGCACGGCTGG
 GTACCACTGGAGCCAGGACTGCGAGTGTGCCCGCAACACCGAGTGCAGCGCCGGGCTGGGCGCCAG
 CACCCGTGCTACTTCTGATGCCTTTCTCCACGGACAAATGCAGACCTGGACCAACTGTACCTTCC
 TTGGAAAGAGAGTAGAACATCATGGGACAGAGAAATCCGATGCGGTTTGCAGTCTTCTCTGCCAGCTAG
 AAAACCACCAAAATGAACCCCATGTTACTTGCCTGGTTTAAATCTGCTTCTCTCGCGTCTGTGGCC
 CTGGTGGCTGCCATCATCTTTGGCGTTTGTCTATAGGAAAAAGGAAAGCACTCACAGCTAATTTGTGGC
 ACTGGATCAATGAGGCTTGTGGCCGCTAAGTGGAGATAAGGAGTCTCAGGTGACAGTTGTGTCAGTAC
 ACACACGGCAAACTTTGGTCAGCAGGGAGCATGTGAAGGTGTCTTACTGCTGACTCTGGAGGAGAAGACA
 TTTCCAGAAGATATGTGTACCCAGATCAAGGTGGTGTCTGTCCAGGGCACATGTGTAGGAGGTGGTCCCT
 ACGCACAAGGCGAAGATGCCAGGATGCTCTCATTGGTCAGCAAGACCGAGATAGAGGAAGACAGCTTCA
 ACAGATGCCACAGAAGATGAATACATGGACAGGCCCTCCAGCCACAGACCAGTTACTGTTCTCACT
 GAGCCTGGAAGCAAATCCACACCTCCTTCTCTGAACCCCTGGAGGTGGGGGAGAATGACAGTTTAAAGCC
 AGTGCTTACGGGGACACAGACAGTGGGTTTCCAGAAAGTGCAGTGCAGTGCAGCCCTGTGCAGGAC
 TGATTGGACTCCCATGTCTCTGAAAACACTTGCAAAAAGAGGTGGACAGTGGCCATTGCCCGCACTGG
 GCAGCCAGCCCCAGCCCAACTGGGAGATGTCTGCACAGGCTGCCGGAACCCCTCTGGGAGGACTGTG
 AACCCCTCGTGGGTTCCCAAAACGTGGACCTTGCCCAAGTGCAGCTATGGCATGGGCTTCCCCCTGA
 AGAAGAAGCCAGCAGGACGGAGGCCAGAGACCAGCCGAGGATGGGGCTGATGGGAGGCTCCAAGCTCA
 GCGAGGGCAGGTGCCGGTCTGGAAGCTCCCTGGTGGCCAGTCCCTGCATCTGGAAATGTGACTGGAA
 ACAGTAACTCCACGTTTCTCTCCAGCGGGCAGGTGATGAACCTCAAGGGCGACATCATCGTGGTCTACGT
 CAGCCAGACTCGCAGGAGGGCGCGCGCGGCTGCGGAGCCATGGGCCCGCGGTGCAGGAGGAGACC
 CTGGCGCGCCGAGACTCCTTCGCGGGGAACGGCCCGCTTCCCGGACCCGTGCGCGGCGCCCGAGGGGC
 TGCGGGAGCCGGAGAAGGCTCGAGGCCGTGCAGGAGCAAGGGCGGGCCAAGGCT

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239054 representing NM_001278268
 Red=Cloning site Green=Tags(s)

MAPRRRRRPLFALLLLCALLARLQVALQIAPPCTSEKHVEHLGRCCNKCEPGKYMSSKCTTSDSVCLP
 CGPDEYLDWNEEDKCLLHKVCDTGKALVAVVAGNSTTPRRCACTAGYHWSQDCECCRRNTECAPLGAQ
 HPCYFSDAFSSTDKCRPWTNCTFLGKRVEHHGTEKSDAVCSSLPARKPPNEPHYVLPGLIILLFASVA
 LVAAIIFGVYRKKKAL TANLWHWINEACGRLSGDKESSGDSVSTHTANFGQQGACEGVLLL TLEEK
 FPEDMCPDQGGVCGTGVGGPYAQGEDARMLSLVSKTEIEEDSFRQMPTEDEYMDRPSQPTDQLLFLT
 EPGSKSTPPFSEPLEVGENDSLSQFTGTQSTVGESENCNTEPLCRTDWTMPSENENYLQKEVDSGHCPHW
 AASPSNWADVCTGCRNPPGEDCEPLVGSFKRGLPQCA YGMGLPPEEEASRTEARDQPEDGADGRLPSS
 ARAGAGSGSSPGGQSPASGNVTGNSNSTFISGGQVMNFKGDIIVVYVSQTSQEGAAAAAEPMPGRPVQEET
 LARRDSFAGNGPRFPDPCGGPEGLREPEKASRPVQEQGAKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

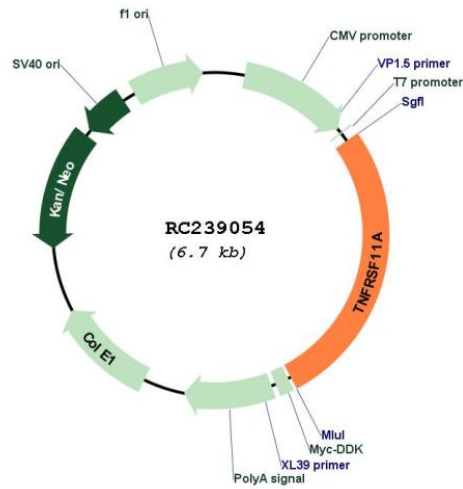
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001278268

ORF Size: 1806 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:	<ol style="list-style-type: none">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_001278268.2
RefSeq Size:	4551 bp
RefSeq ORF:	1809 bp
Locus ID:	8792
UniProt ID:	Q9Y6Q6
Cytogenetics:	18q21.33
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction
MW:	65 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]