

Product datasheet for **RR211558**

Tnfsf11 (NM_057149) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnfsf11 (NM_057149) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tnfsf11
Synonyms:	RANKL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR211558 representing NM_057149 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCCGGGCCAACCGAGACTACGGCAAGTACCTGCGCGGCTCGGAGGAGATGGGCAGTTGCCCTGGCG
TCCCACACGAGGGTCCGCTGCATCCCGCGCCTTCAGCACCGGCTCCAGCGCCGCCCCCGCCGCTCCCG
CTTCATGTTCTGGCGCTCCTGGGGCTGGGACTGGGTGAGTGGTCTGCAGCATCGCTCTGTTCTGTAC
TTTCGAGCGCAGATGGATCCTAACAGAATATCAGAAGACAGCACGCGCTGCTTACAGAATTCTGAGAC
TCCGTGAAAATACAGTTTGCAGGACTCGACTCTGGAGAGCGAAGACACAGAAGCACTACCTGACTCATG
CAGGAGAATGAAACAAGCCTTCAAGGGCCGTGCAAAGGGAATTACAACACATTGTGGGCCACAGCGC
TTCTCAGGAGTTCAGCTATGATGGAAGTTTCGTGGCTCGATGTGGCCCGCGGGCAAGCCTGAGGCTC
AGCCGTTTGTCACTCACCATCAATGCTGCCGACATCCCATCGGGTTCCATAAAGTCAGTCTGTCCCTC
TTGGTACCATGATCGAGGCTGGGCCAAGATCTCTAACATGACGTTAAGCAACGGAAAACCTAAGGGTTAAC
CAAGATGGCTTCTATTACCTGTACGCCAACATTTGCTTACGGCATCATGAAACCTCAGGGAGCGTACCTG
CGGACTATCTTCAGCTGATGGTATATGTCGTTAAAACCAGCATCAAAATCCCAAGTTCGCATAACCTGAT
GAAAGGGGGGAGCACTAAGAAGTGGTCAGGGAATCTGAATTCACCTTTTATTCCATAAACGTTGGAGGA
TTTTTCAAGCTCCGGGCTGGTGAGGAAATTAGCGTCCAGGTGTCCAACCCCTCCCTGTTGGATCCGGATC
AAGATGCCAGCTACTTTGGGGCTTCAAAGTTCAAGACATAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211558 representing NM_057149
Red=Cloning site Green=Tags(s)

```
MRRANRDYGYLRGSEEMGSCPGVPHEGPLHPAPSAPAPAPPPAASRFMFLALLGLGLGQVVCSIALFLY
FRAQMDPNRISEDSTRCFYRILRLRENTGLQDSTLESEDEALPDSCRRMKQAFQGAQVRELQHI VGPQR
FSGVPAMMEGSWLDVARRGKPEAQFFAHLTINAADIPSGSHKVSLSWYHDRGWAKISNMTLSNGKLRVN
QDGFYYLYANICFRHHETSGSVPADYLQLMYYVVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGG
FFKL RAGEEISVQVSNP SLLDPDQDATYFGAFK VQDID
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_057149

ORF Size: 954 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_057149.1](#), [NP_476490.1](#)

RefSeq Size: 957 bp

RefSeq ORF: 957 bp

Locus ID: 117516

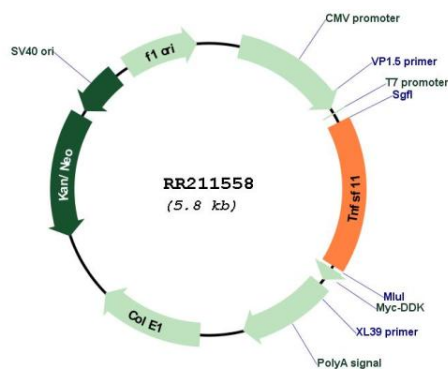
UniProt ID: [Q9ESE2](#)

Cytogenetics: 15q11

MW: 35.4 kDa

Gene Summary: induces osteoclast formation and bone resorption; plays a role in regulation of calcium homeostasis and osteoclast function [RGD, Feb 2006]

Product images:



Circular map for RR211558