

Product datasheet for MR206291

Tnfrsf11b (NM_008764) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnfrsf11b (NM_008764) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tnfrsf11b
Synonyms:	OCIF; Opg; TR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206291 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACAAGTGGCTGTGCTGCGCACTCCTGGTCTCCTGGACATCATTGAATGGACAACCCAGGAAACCC
TTCCTCCAAAGTACTTGCAATATGACCCAGAACTGGTCATCAGCTCCTGTGTGACAAATGTGCTCCTGG
CACCTACCTAAAACAGCACTGCACAGTGAGGAGGAAGACATTGTGTGTCCCTTGCCCTGACCACTTTAT
ACGGACAGCTGGCACACCAGTGATGAGTGTGTATTGCAGCCCAGTGTGCAAGGAACTGCAGTCCGTGA
AGCAGGAGTGAACCCGACCCACAACCGAGTGTGTGAGTGTGAGGAAGGGCGTTACCTGGAGATCGAATT
CTGCTTGAAGCACCGGAGCTGTCCCGGGCTCCGGCGTGGTGAAGCTGGAACCCAGAGCAAAACACA
GTTTGCAAAAAATGTCCAGATGGGTTCTTCTCAGGTGAGACTTTCATCGAAAGCACCTGTAGAAAACACA
CGAACTGCAGCACATTTGGCCTCCTGCTAATTCAGAAAGGAAATGCAACACATGACAACGTGTGTTCCGG
AAACAGAGAAGCCACGCAAAAGTGTGGAATAGATGTCACCCTGTGTGAAGAGGCCCTTCTCAGGTTTGCT
GTTCTACCAAGATTATACCAAATTGGCTGAGTGTGTTGGTGGACAGTTTGCCTGGGACCAAGTGAATG
CCGAGAGTGTAGAGAGGATAAAACGGAGACACAGCTCACAAAGAGCAAACCTTCCAGCTGCTGAAGCTGTG
GAAACATCAAAACAGAGACCAGGAAATGGTGAAGAAGATCATCCAAGACATTGACCTCTGTGAAAGCAGC
GTGCAGCGCATCTCGCCACGCGAACCTCACACAGAGCAGCTTCGTGCCTTGTGAGAGCCTGCCTG
GGAAGAAGATCAGCCAGAAAGAAATTGAGAGAACGAGAAAGACCTGCAAAATCGAGCGAGCAGCTCCTGAA
GCTACTCAGTTTATGGAGGATCAAAAATGGTGACCAAGACACCTTGAAGGCCTGATGTATGCCCTCAAG
CACTTGAAAACATCCCACTTTCCAAAAGTGTACCCACAGTCTGAGGAAGACCATGAGGTTCTGCACA
GCTTACAATGTACAGACTGTATCAGAAGCTCTTTTAGAAATGATAGGGAATCAGGTTCAATCTGTGAA
AATAAGCTGCTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206291 protein sequence
Red=Cloning site Green=Tags(s)

MNKWLCCALLVLLDIIEWTTQETLPPKYLHYDPETGHQLLCDKCAPGTYLKQHCTVRRKTLCPVPCPDHSY
 TDSWHTSDECVYCSPVKELQSVKQECNRTHNRVCECEEGRYLEIEFCLKHRSCPPGSGVVQAGTPEQNT
 VCKKCPDGFSSGETSSKAPCRKHTNCSTFGLLLIQGNATHDNVCSGNREATQKCGIDVTLCEEAFFRFA
 VPTKIIPNWL SVLVDSLPGTKVNAESVERIKRRHSSQEQTFLKLLKWKHQNRDQEMVKKI IQDIDLCESS
 VQRHLGHANLTTEQLRALMESLPGKKISPEEIERTRKTKCSSEQLLKL LSLWRIKNGDQDTLKGLMYALK
 HLKTSHPKTVTHSLRKTRFLHSFTMYRLYQKLFLEMIGNQVQSVKISCL

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_008764

ORF Size: 1206 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_008764.1](#), [NM_008764.2](#), [NM_008764.3](#), [NP_032790.3](#)

RefSeq Size: 2818 bp

RefSeq ORF: 1206 bp

Locus ID: 18383

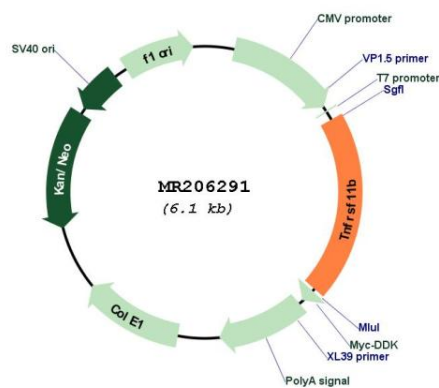
UniProt ID: [O08712](#)

Cytogenetics: 15 D1

MW: 46 kDa

Gene Summary: Acts as decoy receptor for TNFSF11/RANKL and thereby neutralizes its function in osteoclastogenesis. Inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro. Bone homeostasis seems to depend on the local ratio between TNFSF11 and TNFRSF11B. May also play a role in preventing arterial calcification. May act as decoy receptor for TNFSF10/TRAIL and protect against apoptosis. TNFSF10/TRAIL binding blocks the inhibition of osteoclastogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206291