*m*OPG/TNFRSF11B VersaClone cDNA

Catalog Number: RDC3091

Specifications:

Gene:	*m*Tnfrsf11b
Accession:	AAH49782.1
Insert size:	1219bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

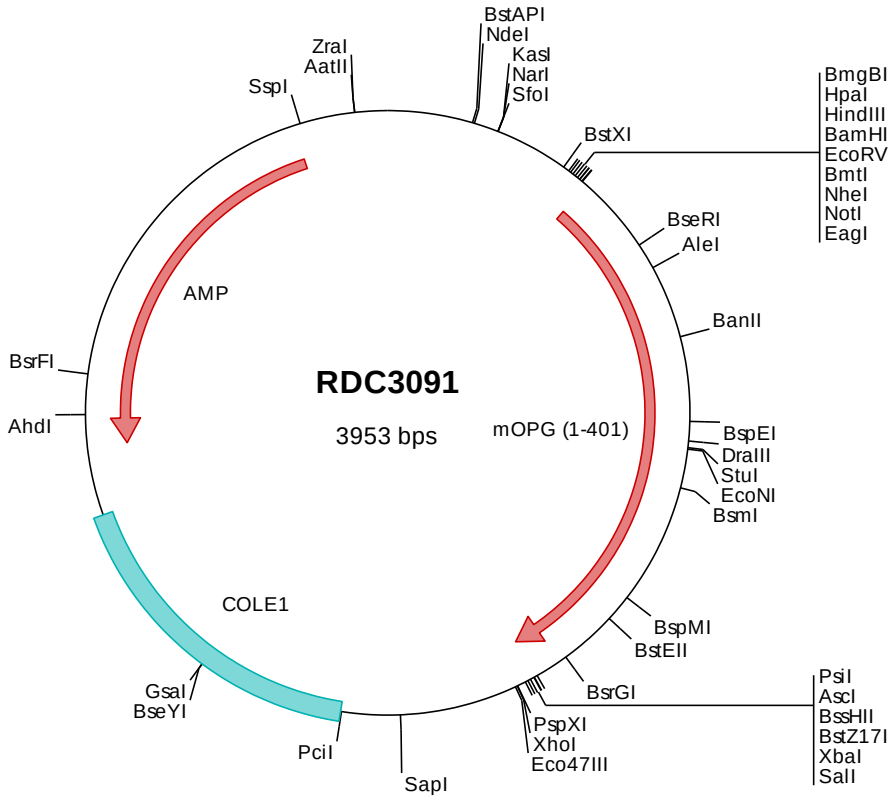
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*m*OPG/TNFRSF11B cDNA Plasmid

Tnfrsf11b tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin) [*Mus musculus* (house mouse)]

Also known as: Opg; TR1; OCIF

Summary:
OPG is a secreted TNF superfamily receptor that regulates bone density. OPG is widely expressed and constitutively released as a homodimer by mesenchymal stem cells, fibroblasts, and endothelial cells. OPG functions as a decoy receptor for TRANCE/RANK L and TRAIL. Dysregulation of OPG/TRANCE interactions can lead to juvenile Paget's disease, osteoporosis, bone loss, and vascular calcification.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

R&D SYSTEMS
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> RDC3091 Plasmid DNA Sequence

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 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgaacaagt ggctgtgctg cgcactcctg gtgctcctgg acatcattga
 501  atggacaacc caggaaaccc ttcctccaaa gtacttgcat tatgacccag aaactggtca tcagctcctg tgtgacaaat gtgctcctgg cacctaccta
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 901  tcaggtgaga cttcatcgaa agcaccctgt agaaaacaca cgaactgcag cacatttggc ctcctgctaa ttcagaaagg aaatgcaaca catgacaacg
1001  tgtgttccgg aaacagagaa gccacgcaaa agtgtggaat agatgtcacc ctgtgtgaag aggccttctt caggtttgct gttcctacca agattatacc
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1401  gacctgcaaa tcgagcgagc agctcctgaa gctactcagt ttatggagga tcaaaaatgg tgaccaagac accttgaagg gcctgatgta tgccctcaag
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1701  gagcgctcgt ctctagcttg gcgtaatcat ggtcatagct gtttcctgtg tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat
1801  aaagtgtaaa gcctggggtg cctaatgagt gagctaactc acattaattg cgttgcgctc actgcccgct ttccagtcgg gaaacctgtc gtgccagctg
1901  cattaatgaa tcggccaacg cgcggggaga ggcggtttgc gtattgggcg ctcttccgct tcctcgctca ctgactcgct gcgctcggtc gttcggctgc
2001  ggcgagcggt atcagctcac tcaaaggcgg taatacggtt atccacagaa tcaggggata acgcaggaaa gaacatgtga gcaaaaggcc agcaaaaggc
2101  caggaaccgt aaaaaggccg cgttgctggc gtttttccat aggctccgcc cccctgacga gcatcacaaa aatcgacgct caagtcagag gtggcgaaac
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2301  tcccttcggg aagcgtggcg ctttctcaat gctcacgctg taggtatctc agttcggtgt aggtcgttcg ctccaagctg ggctgtgtgc acgaacccccc
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2701  gcgcagaaaa aaaggatctc aagaagatcc tttgatcttt tctacggggt ctgacgctca gtggaacgaa aactcacgtt aagggatttt ggtcatgaga
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2901  gcttaatcag tgaggcacct atctcagcga tctgtctatt tcgttcatcc atagttgcct gactccccgt cgtgtagata actacgatac gggagggctt
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3601  gctgttgaga tccagttcga tgtaacccac tcgtgcaccc aactgatctt cagcatcttt tactttcacc agcgtttctg ggtgagcaaa aacaggaagg
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> RDC3091 Translated Insert Sequence

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 201  lceeaffrfa vptkiipnwl svlvdslpgt kvnaesveri krrhssqeqt fqllklwkhq nrdqemvkki iqdidlcess vqrhlghanl tteqlralme
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