

Product datasheet for **SC122247**

Osteoprotegerin (TNFRSF11B) (BC030155) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osteoprotegerin (TNFRSF11B) (BC030155) Human Untagged Clone
Tag:	Tag Free
Symbol:	Osteoprotegerin
Synonyms:	MGC29565; OCIF; OPG; osteoclastogenesis inhibitory factor; osteoprotegerin; TR1; tumor necrosis factor receptor superfamily, member 11b
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for BC030155 edited
 CTGGAGCTTTCTGCACACCCCGACCGCTCCCGCCAAGCTTCCTAAAAAGAAAGGTG
 CAAAGTTTGGTCCAGGATAGAAAAATGACTGATCAAAGGCAGGCGATACTTCCTGTTGCC
 GGGACGCTATATAACGTGATGAGCGCACGGGCTGCGGAGACGCACCGGAGCGCTCGCC
 CAGCCGCCGCTCCAAGCCCCTGAGGTTCCGGGGACCACAATGAACAACCTTGCTGTGCT
 GCGCGCTCGTGTCTTGGACATCTCCATTAAGTGGACCACCCAGGAAACGTTTCCTCCAA
 AGTACCTTCATTATGACGAAGAAACCTCTCATCAGCTGTTGTGTGACAAATGCCTCCTG
 GTACCTACCTAAAACAACACTGTACAGCAAAGTGAAGACCGTGTGCGCCCTTGCCCTG
 ACCACTACTACACAGACAGCTGGCACACCAAGTACGAGTGTCTATACTGCAGCCCGTGT
 GCAAGGAGCTGCAGTACGTCAAGCAGGAGTGCAATCGCACCCACAACCGCGTGTGCGAAT
 GCAAGGAAGGGCGCTACCTTGAGATAGAGTTCTGCTTGAAACATAGGAGCTGCCCTCCTG
 GATTTGGAGTGGTCAAGCTGGAACCCAGAGCGAAATACAGTTTGCAAAAAGATGCCAG
 ATGGGTTCTTCTCAAATGAGACGTCATCTAAAGCACCTGTAGAAAACACACAAATTGCA
 GTGTCTTTGGTCTCCTGTAACCTAGAAAGGAAATGCAACACACGACAACATATGTTCCG
 GAAACAGTGAATCAACTCAAAAATGTGGAATAGATGTTACCCTGTGTGAGGAGGCATTCT
 TCAGGTTTGTGTTCTACAAAAGTTTACGCCTAACTGGCTTAGTGTCTTGGTAGACAATT
 TGCTGGCACAAAGTAAACGCAGAGAGTGTAGAGAGGATAAAACGGCAACACAGCTCAC
 AAGAACAGACTTTCAGCTGCTGAAGTTATGGAACATCAAAAACAAGACCAAGATATAG
 TCAAGAAGATCATCCAAGATATTGACCTCTGTGAAAACAGCGTGCAGCGGCACATTGGAC
 ATGCTAACCTCACCTTCGAGCAGCTTCGTAGCTTGATGGAAGCTTACCGGGAAGAAAG
 TGGGAGCAGAAGACATTGAAAAACAATAAAGGCATGCAACCCAGTGACCAGATCCTGA
 AGCTGCTCAGTTTGTGGCGAATAAAAAATGGCGACCAAGACACCTTGAAGGCCTAATGC
 ACGCACTAAAGCACTCAAAGACGTACCCTTTCCAAAACACTGCACTCAGAGTCTAAAG
 AGACCATCAGGTTCTTTCACAGCTTACCAATGTACAAAATGTATCAGAAGTTATTTTTAG
 AAATGATAGGTAACCAAGTCCAATCAGTAAAAATAAGCTGCTTATAACTGAAATGGCCA
 TTGAGCTGTTTCTCACAAATGGCGAGATCCCATGGATGAGTAAACTGTTTCTCAGGCAC
 TTGAGGCTTTCAGTGATATCTTTCTCATTACCAGTGACTAATTTTGCCACAGGACTAA
 AAGAACTATGATGTGGAGAAAGGACTAACATCTCCTCAATAAACCCCAATGGTTAAT
 CCAACTGCAGATCTGGATCGTTATCTACTGACTATATTTCCCTTATTACTGCTTGCAG
 TAATTCAACTGGAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC030155 unedited
 NAAATGCAGTCATACTTGTAAAAGACTCCTATAGGCGGGCCGACATTTCGACAGAGCGCT
 GGAGCCTTTTCTGCACACCCCGACCGCTCCCGCCAAGCTTCCTAAAAAAAAGGTGC
 AAAGTTTGGTCCAGGATAGAAAAATGACTGATCAAAGGCAGGCGATACTTCTGTGGCCG
 GGACGCTATATATAACGTGATGAGCGCACGGGCTGCGGAGACGCACCGGAGCGCTCGCC
 AGCCGCCGCTCCAAGCCCTGAGGTTTCCGGGGACCACAATGAACAACCTTGCTGTGCTG
 CGCGCTCGTGTCTTGGACATCTCCATTAAGTGGACCACCCAGGAAACGTTTCCTCCAA
 GTACCTTCATTATGACGAAGAAACCTCTCATCAGCTGTTGTGTGACAAATGCCTCCTGG
 TACCTACCTAAAACAACACTGTACAGCAAAGTGAAGACCGTGTGCGCCCTTGCCCTGA
 CCACTACTACACAGACAGCTGGCACACCAGTGACGAGTGTCTATACTGCAGCCCGTGTG
 CAAGGAGCTGCAGTACGTCAAGCAGGAGTGAATCGCACCCACAACCGCGTGTGCGAATG
 CAAGGAAGGGCGCTACCTTGAGATAGAGTTCTGCTTGAAACATAGGAGCTGCCCTCCTGG
 ATTTGGAGTGGTCAAGCTGGAACCCAGAGCGAAATACAGTTTGCAANAAGATGTCCAGA
 TGGGTTCTTCTCAAATGAGACGTCATCTAAAGCACCTGTAGAAAACACACAAATTGCAG
 TGTCTTTGGTCTCCTGTAACCTCAGAAAGGAATGCAACACACGACACATATGTTCCGNA
 ACAGTGAATCAACTCAA

Restriction Sites: Please inquire

ACCN: BC030155

Insert Size: 1700 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC030155.2 , AAH30155.1
RefSeq Size:	1710 bp
Locus ID:	4982
Cytogenetics:	8q24.12
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction
Gene Summary:	The protein encoded by this gene is a member of the TNF-receptor superfamily. This protein is an osteoblast-secreted decoy receptor that functions as a negative regulator of bone resorption. This protein specifically binds to its ligand, osteoprotegerin ligand, both of which are key extracellular regulators of osteoclast development. Studies of the mouse counterpart also suggest that this protein and its ligand play a role in lymph-node organogenesis and vascular calcification. Alternatively spliced transcript variants of this gene have been reported, but their full length nature has not been determined. [provided by RefSeq, Jul 2008]