

Product datasheet for **SC319552**

Osteoprotegerin (TNFRSF11B) (NM_002546) Human Untagged Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Osteoprotegerin (TNFRSF11B) (NM_002546) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Osteoprotegerin |
| Synonyms: | OCIF; OPG; PDB5; TR1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC (PS100020) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_002546.2
 GGCACGAGGCTGGAGCTTTCTGCACACCCCGACCGCTCCCGCCAAGCTTCTAAAAA
 AGAAAGGTGCAAAGTTTGGTCCAGGATAGAAAAATGACTGATCAAAGGCAGGCGATACTT
 CCTGTTGCCGGGACGCTATATATAACGTGATGAGCGCACGGGCTGCGGAGACGCACCGGA
 GCGCTCGCCAGCCGCCCTCAAGCCCTGAGGTTTCCGGGGACCACAATGAACAACCT
 TGCTGTGCTGCGCGCTCGTGTCTTCTGGACATCTCCATTAAGTGGACCACCCAGGAAACCT
 TTCTCCAAAGTACCTTCAATTATGACGAAGAAACCTCTCATCAGCTGTTGTGTGACAAAT
 GTCCTCCTGGTACCTACCTAAAAACAACACTGTACAGCAAAGTGGAAAGACCGTGTGCGCCC
 CTTGCCCTGACCACTACTACACAGACAGCTGGCACACCAGTGACGAGTGTCTATACTGCA
 GCCCGTGTGCAAGGAGCTGCAAGTACGTCAAGCAGGAGTGAATCGCACCCACAACCGCG
 TGTGCGAATGCAAGGAAGGGCGCTACCTTGAGATAGAGTTCTGCTTGAAACATAGGAGCT
 GCCCTCCTGGATTTGGAGTGGTCAAGCTGGAACCCAGAGCGAAATACAGTTTGCAAAA
 GATGTCCAGATGGGTTCTTCTCAAATGAGACGTCACTAAAGCACCTGTAGAAAACACA
 CAAATTGCAGTGTCTTTGGTCTCCTGCTAACTCAGAAAGGAAATGCAACACACGACAACA
 TATGTTCCGAAACAGTGAATCAACTCAAAAATGTGGAATAGATGTTACCCTGTGTGAGG
 AGGCATTTCTCAGTTTTGCTGTTCTACAAAGTTACGCCTAACTGGCTTAGTGTCTTGG
 TAGACAATTTGCCTGGCACCAAAAGTAAACGCAGAGAGTGTAGAGAGGATAAAACGGCAAC
 ACAGCTCACAAGAACAGACTTTCCAGCTGCTGAAGTTATGGAAACATCAAAAACAAGACC
 AAGATATAGTCAAGAAGATCATCCAAGATATTGACCTCTGTGAAAACAGCGTGCAGCGGC
 ACATTGGACATGCTAACCTCACCTTCGAGCAGCTTCGTAGCTTGATGGAAAGCTTACCGG
 GAAAGAAAGTGGGAGCAGAAGACATTGAAAAACAATAAAGGCATGCAAAACCCAGTGACC
 AGATCCTGAAGCTGCTCAGTTTGTGGCGAATAAAAAATGGCGACCAAGACACCTTGAAGG
 GCCTAATGCACGCACTAAAGCACTCAAAGACGTACCCTTTCCAAAACCTGCTCACTCAGA
 GTCTAAAGAAGACCATCAGGTTCCCTTACAGCTTCAACAATGTACAAATTGTATCAGAAGT
 TATTTTTAGAAATGATAGGTAACCAGGTCCAATCAGTAAAAATAAGCTGCTTATAACTGG
 AAATGGCCATTGAGCTGTTTCTCACAATTGGCGAGATCCCATGGATGAGTAAACTGTTT
 CTCAGGCACTTGAGGCTTTCAGTGATATCTTTCTCATTACCAGTGACTAATTTTGCACAA
 GGGTACTAAAAGAACTATGATGTGGAGAAAGGACTAACATCTCCTCCAATAAACCCCAA
 ATGGTTAATCCAAGTGCAGATCTGGATCGTTATCTACTGACTATATTTTCCCTTATTAC
 TGCTTGACAGTAATCAACTGGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002546

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_002546.2](#), [NP_002537.2](#)

RefSeq Size: 2291 bp

RefSeq ORF: 1206 bp

Locus ID: 4982

UniProt ID: [O00300](#)

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]