

Product datasheet for **RG233777**

Osteopontin (SPP1) (NM_001251830) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osteopontin (SPP1) (NM_001251830) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Osteopontin
Synonyms:	BNSP; BSPI; ETA-1; OPN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233777 representing NM_001251830 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCATTGTCCCAGAAGCTTGGACAAAAAGGCACACAGAGTTCAATTCAGTTGAACAGAATAAAGG
CCAAAATAGAGCTGCCTTGGGGTCACTGCAATTAGACTGCTTAATGAAGACATTAAGAAGACTTTACAA
CAAATACCCAGATGCTGTGGCCACATGGCTAAACCCTGACCCATCTCAGAAGCAGAATCTCTAGCCCCA
CAGAATGCTGTCTCTGAAGAAACCAATGACTTTAAACAAGAGACCCTTCCAAGTAAGTCCAACGAAA
GCCATGACCACATGGATGATATGGATGATGAAGATGATGATGACCATGTGGACAGCCAGGACTCCATTGA
CTCGAAGGACTCTGATGATGTAGATGACTGATGATTCTCACCAGTCTGATGAGTCTCACCATTCTGAT
GAATCTGATGAACTGGTCACTGATTTTCCACGGACCTGCCAGCAACCGAAGTTTCACTCCAGTTGTCC
CCACAGTAGACACATATGATGGCCGAGGTGATAGTGTGGTTTATGGACTGAGGTCAAAATCTAAGAAGTT
TCGCAGACCTGACATCCAGTACCCTGATGCTACAGACGAGGACATCACCTCACACATGAAAAGCGAGGAG
TTGAATGGTGCATACAAGGCCATCCCCGTTGCCAGGACCTGAACGCGCCTTCTGATTGGGACAGCCGTG
GGAAGGACAGTTATGAAACGAGTCAGCTGGATGACCAGAGTGTGAAACCCACAGCCACAAGCAGTCCAG
ATTATATAAGCGGAAAGCCAATGATGAGAGCAATGAGCATTCCGATGTGATTGATAGTCAGGAACCTTCC
AAAGTCAGCCGTGAATTCACAGCCATGAATTTACAGCCATGAAGATATGCTGGTTGTAGACCCCAAAA
GTAAGGAAGAAGATAAACACCTGAAATTTCTCATGAATTAGATAGTGCATCTTCTGAGGTCAA
T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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_001251830.1](#), [NP_001238759.1](#)

RefSeq Size: 1823 bp

RefSeq ORF: 984 bp

Locus ID: 6696

UniProt ID: [P10451](#)

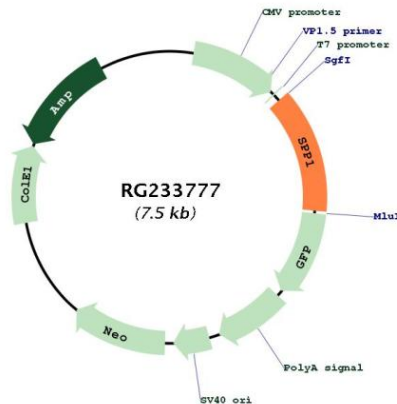
Cytogenetics: 4q22.1

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: ECM-receptor interaction, Focal adhesion, Toll-like receptor signaling pathway

Gene Summary: The protein encoded by this gene is involved in the attachment of osteoclasts to the mineralized bone matrix. The encoded protein is secreted and binds hydroxyapatite with high affinity. The osteoclast vitronectin receptor is found in the cell membrane and may be involved in the binding to this protein. This protein is also a cytokine that upregulates expression of interferon-gamma and interleukin-12. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG233777