

## Product datasheet for **SC303557**

### Bone Sialoprotein (IBSP) (NM\_004967) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Bone Sialoprotein (IBSP) (NM_004967) Human Untagged Clone
Tag:	Tag Free
Symbol:	Bone Sialoprotein
Synonyms:	BNSP; BSP; BSP-II; SP-II
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_004967 edited  
 ATGAAGACTGCTTTAATTTTGTCTCAGCATTTTGGGAATGGCCTGTGCTTTCTCAATGAAA  
 AATTTGCATCGAAGAGTCAAAATAGAGGATTCTGAAGAAAATGGGGTCTTTAAGTACAGG  
 CCACGATATTATCTTTACAAGCATGCCTACTTTTATCCTCATTTAAAACGATTTCCAGTT  
 CAGGGCAGTAGTGACTCATCCGAAGAAAATGGAGATGACAGTTTCAGAAGAGGAGGAGGAA  
 GAAGAGGAGACTTCAAATGAAGGAGAAAACAATGAAGAATCGAATGAAGATGAAGACTCT  
 GAGGCTGAGAATACCACACTTTCTGCTACAACACTGGGCTATGGAGAGGACGCCACGCT  
 GGCACAGGGTATACAGGGTTAGCTGCAATCCAGCTTCCCAAGAAGGCTGGGGATAAACA  
 AATAAAGCTACAAAAGAGAAGGAAAGTGATGAAGAAGAAGAGGAGGAAGAGGAAGGAAAT  
 GAAAACGAAGAAAGCGAAGCAGAAGTGGATGAAAACGAACAAGGCATAAACGGCACCACT  
 ACCAACAGCACAGAGGCAGAAAACGGCAACGGCAGCAGCGGAGGAGACAATGGAGAAGAA  
 GGGGAAGAAGAAAGTGTCACTGGAGCCAATGCAGAAGACACCACAGAGACCGGAAGGCAG  
 GGCAAGGGCACCTCGAAGACAACAACCTCTCCAATGGTGGGTTTGAACCTACAACCCCA  
 CCACAAGTCTATAGAACCACTTCCCCACCTTTTGGGAAAACCACCACCGTTGAATACGAG  
 GGGGAGTACGAATACACGGGCGCCAATGAATACGACAATGGATATGAAATCTATGAAAGT  
 GAGAACGGGGAACCTCGTGGGACAATTACCGAGCCTATGAAGATGAGTACAGCTACTTT  
 AAAGGACAAGGCTACGATGGCTATGATGGTCAGAATTACTACCACCACCAAGTGA

Restriction Sites:	Please inquire
ACCN:	NM_004967
Insert Size:	1200 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).



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<b>OTI Annotation:</b>	ORF matches with NM_004967.2.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_004967.2</u> , <u>NP_004958.1</u>
<b>RefSeq Size:</b>	1108 bp
<b>RefSeq ORF:</b>	954 bp
<b>Locus ID:</b>	3381
<b>UniProt ID:</b>	<u>P21815</u>
<b>Cytogenetics:</b>	4q22.1
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	ECM-receptor interaction, Focal adhesion
<b>Gene Summary:</b>	The protein encoded by this gene is a major structural protein of the bone matrix. It constitutes approximately 12% of the noncollagenous proteins in human bone and is synthesized by skeletal-associated cell types, including hypertrophic chondrocytes, osteoblasts, osteocytes, and osteoclasts. The only extraskeletal site of its synthesis is the trophoblast. This protein binds to calcium and hydroxyapatite via its acidic amino acid clusters, and mediates cell attachment through an RGD sequence that recognizes the vitronectin receptor. [provided by RefSeq, Jul 2008]