

## Product datasheet for **SC307883**

### Osteocalcin (BGLAP) (NM\_199173) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Osteocalcin (BGLAP) (NM_199173) Human Untagged Clone
Tag:	Tag Free
Symbol:	Osteocalcin
Synonyms:	BGP; OC; OCN
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_199173 edited ACACCATGAGAGCCCTCACACTCCTCGCCCTATTGGCCCTGGCCGCACTTTGCATCGCTG GCCAGGCAGGTGCGAAGCCAGCGGTGCAGAGTCCAGCAAAGGTGCAGCCTTTGTGTCCA AGCAGGAGGGCAGCGAGGTAGTGAAGAGACCCAGGCGCTACCTGTATCAATGGCTGGGAG CCCCAGTCCCCTACCCGATCCCCTGGAGCCCAGGAGGGAGGTGTGTGAGCTCAATCCGG ACTGTGACGAGTTGGCTGACCACATCGGCTTTCAGGAGGCCTATCGGCGCTTCTACGGCC CGGTCTAGGGTGTGCTCTGCTGGCCTGGCCGGCAACCCAGTTCTGCTCCTCTCCAGGC ACCCTTCTTCT
Restriction Sites:	Please inquire
ACCN:	NM_199173
Insert Size:	400 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).
OTI Annotation:	ORF of this clone is a perfect match to the reference, NM_199173.2
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).



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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\\_199173.2](#), [NP\\_954642.1](#)

**RefSeq Size:** 498 bp

**RefSeq ORF:** 303 bp

**Locus ID:** 632

**UniProt ID:** [P02818](#)

**Cytogenetics:** 1q22

**Protein Families:** ES Cell Differentiation/IPS, Secreted Protein

**Gene Summary:** This gene encodes a highly abundant bone protein secreted by osteoblasts that regulates bone remodeling and energy metabolism. The encoded protein contains a Gla (gamma carboxyglutamate) domain, which functions in binding to calcium and hydroxyapatite, the mineral component of bone. Serum osteocalcin levels may be negatively correlated with metabolic syndrome. Read-through transcription exists between this gene and the neighboring upstream gene, PMF1 (polyamine-modulated factor 1), but the encoded protein only shows sequence identity with the upstream gene product. [provided by RefSeq, Jun 2015]