

Product datasheet for **MC213087**

Ostn (NM_198112) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ostn (NM_198112) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ostn
Synonyms: Ostc
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC213087 representing NM_198112
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTGGACTGGAGATTGGCAAGTACACACTTCATCCTGGCTATGATTGTGATGCTGTGGGGCTCAGGAA
AGGCATTCTGTGGACTTAGCATCACAGGAGTTTGAACAGCAAGCTTGCAGTCTCCACCCACAGCCAG
AGAAGAGAAGTCAGCCACTGAGCTTTCGGCTAAGCTCCTGCGTCTTGATGATCTGGTGTCTTAGAGAAT
GACGTATTTGAGACCAAGAAAAAGAGAAGCTTCTCTGGCTTTGGGTCTCCCTTGACAGACTCTCAGCTG
GGTCTGTAGAGCATAGAGGGAAACAAAGGAAAGCAGTAGATCATTCAAAAAGCGGTTTGGTATTCCCAT
GGATCGGATTGGTAGAAACCGGCTCTCCAGTTCAGAGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_198112
Insert Size: 393 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:

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_198112.2](#), [NP_932780.1](#)

RefSeq Size: 1268 bp

RefSeq ORF: 393 bp

Locus ID: 239790

UniProt ID: [P61364](#)

Cytogenetics: 16 B2

Gene Summary: Hormone that acts as a ligand for natriuretic peptide receptor NPR3/NPR-C and promotes bone growth and physical endurance in muscle. Acts as a regulator of osteoblast differentiation and bone growth by binding to natriuretic peptide receptor NPR3/NPR-C, thereby preventing binding between NPR3/NPR-C and natriuretic peptides, leading to increase cGMP production (PubMed:14523025, PubMed:17951249). Required to enhance physical endurance: induced following physical exercise in muscle and promotes cGMP production, probably by interacting with NPR3/NPR-C (PubMed:26668395). May act as an autocrine and paracrine factor linked to glucose metabolism in skeletal muscle (PubMed:15044443).[UniProtKB/Swiss-Prot Function]