

Product datasheet for MG215395

Ostn (NM_198112) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Ostn (NM 198112) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Ostn Synonyms: Ostc

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG215395 representing NM_198112

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GGATCGGATTGGTAGAAACCGGCTCTCCAGTTCCAGAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215395 representing NM_198112

Red=Cloning site Green=Tags(s)

MLDWRLASTHFILAMIVMLWGSGKAFSVDLASQEFGTASLQSPPTAREEKSATELSAKLLRLDDLVSLEN

DVFETKKKRSFSGFGSPLDRLSAGSVEHRGKQRKAVDHSKKRFGIPMDRIGRNRLSSSRG

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3053 g03.zip

Restriction Sites: Sgfl-Mlul



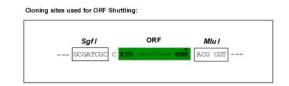
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

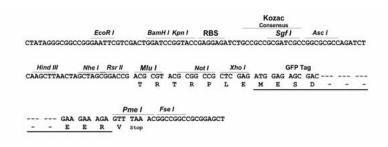
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





ACCN: NM_198112

ORF Size: 390 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customercom or by

calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 198112.2, NP 932780.1</u>

 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

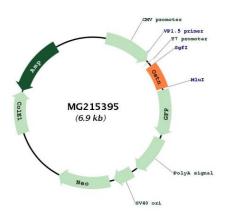
bone growth and physical endurance in muscle. Acts as a regulator of osteoblast differentiation and bone growth by binding to natriuretic peptide receptor NPR3/NPR-C, thereby preventing binding between NPR3/NPR-C and natriuretic peptides, leading to increase cGMP production (PubMed:14523025, PubMed:17951249). 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]

Product images:



Circular map for MG215395