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Product datasheet for MR215395L4V

Ostn (NM_198112) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Ostn (NM_198112) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Ostn
Synonyms:	Ostc
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_198112
ORF Size:	390 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(MR215395).`
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 custsupport@origene.com 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.
RefSeq:	NM_198112.2, NP_932780.1
RefSeq Size:	1268 bp
RefSeq ORF:	393 bp

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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]