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Product datasheet for MC208196

Bmp8a (NM_007558) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bmp8a (NM_007558) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bmp8a
Synonyms:	Bmp7; Bmp7r1; O; OP-2; OP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Restriction Sites:	SgfI-MluI
ACCN:	NM_007558
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).
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_007558.3, NP_031584.1
RefSeq Size:	2366 bp
RefSeq ORF:	1200 bp

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Locus ID: 12163

UniProt ID: P34821

Cytogenetics: 4 57.42 cM

Gene Summary: This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein may play a role in development of the reproductive system. Mice lacking a functional copy of this gene exhibit degeneration of germ cells and the epididymal epithelium. This gene may have arose from a gene duplication event and its gene duplicate is also present on chromosome 4. [provided by RefSeq, Jul 2016] Transcript Variant: This variant (2) has an alternate splice site in the 3' coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment in the C-terminal region, compared to isoform 1.