

Product datasheet for MC208195

Bmp4 (NM_007554) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bmp4 (NM_007554) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bmp4
Synonyms:	Bmp-; Bmp-4; Bmp2; Bmp2b; Bmp2b-; Bmp2b-1; Bmp2b1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208195 representing NM_007554 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTCTGGTAACCGAATGCTGATGGTCGTTTTATTATGCCAAGTCCTGCTAGGAGGCGGAGCCATG
CTAGTTTGATACCTGAGACCGGGAAGAAAAAGTCGCCGAGATTCAGGGCCACGCGGGAGGACGCCGCTC
AGGGCAGAGCCATGAGCTCCTGCGGGACTTCGAGGCGACACTTCTACAGATGTTTGGGCTGCGCCCGCT
CCGCAGCCTAGCAAGAGCGCCGTCATTCGGATTACATGAGGGATCTTTACCGGCTCCAGTCTGGGAGG
AGGAGGAGGAAGAGCAGAGCCAGGAACCGGGCTTGAGTACCCGGAGCGTCCCGCCAGCCGAGCCAACAC
TGTGAGGAGTTTCCATCACGAAGAACATCTGGAGAACATCCCAGGGACCAAGTGGAGCTCTGCTTTTCGT
TTCTCTTCAACCTCAGCAGCATCCCAGAAAATGAGGTGATCTCCTCGGCAGAGCTCCGGCTCTTTCGGG
AGCAGGTGGACCAGGGCCCTGACTGGGAACAGGGCTTCCACCGTATAAACATTTATGAGGTTATGAAGCC
CCCAGCAGAAATGGTTTCTGGACACCTCATCACGACTACTGGACACCAGACTAGTCCATCACAATGTG
ACACGGTGGGAACTTTTCGATGTGAGCCCTGCAGTCTTCGCTGGACCCGGGAAAAGCAACCAATTATG
GGCTGGCCATTGAGGTGACTCACCTCCACCAGACACGGACCCACCAGGGCCAGCATGTGAGAATCAGCCG
ATCGTTACCTCAAGGGAGTGGAGATTGGGCCAACTCCGGCCCTCCTGGTCACTTTTGGCCATGATGGC
CGGGCCATACCTTGACCCGAGGAGGGCCAAACGTAGTCCCAAGCATCACCCACAGCGGTCCAGGAAGA
AGAATAAGAACTGCCGTGCCATTCACTATACGTGGACTTCAGTGGACTTCAGTGACGTGGGCTGGAATGATTGGATTGT
GGCCCCACCCGGTACCAGGCCCTTCTACTGCCATGGGGACTGTCCCTTTCCTACTGGCTGATCACCTCAAC
TCAACCAACCATGCCATTGTGCAGACCCTAGTCAACTCTGTTAATTCTAGTATCCCTAAGGCCTGTTGTG
TCCCCACTGAACTGAGTGCCATTTCCATGTTGTACCTGGATGAGTATGACAAGGTGGTGTGAAAAATTA
TCAGGAGATGGTGGTAGAGGGGTGGATGCCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Chromatograms:	https://cdn.origene.com/chromatograms/ja1876_h04.zip
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_007554
Insert Size:	1227 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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:	BC013459 , AAH13459
RefSeq Size:	1994 bp
RefSeq ORF:	1227 bp
Locus ID:	12159
UniProt ID:	P21275
Cytogenetics:	14 23.95 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 regulates heart development and adipogenesis. Homozygous knockout mice die in utero, while a conditional knockout mouse exhibits defects in heart development. Transgenic mice overexpressing this gene in a neuron-specific manner exhibit a phenotype resembling the rare hereditary connective tissue disease, fibrodysplasia ossificans progressiva. [provided by RefSeq, Jul 2016]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.