OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC303646

BMP15 (NM_005448) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMP15 (NM_005448) Human Untagged Clone
Tag:	Tag Free
Symbol:	BMP15
Synonyms:	GDF9B; ODG2; POF4
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_005448 edited TCCCTTGGGCTTGTGTTGGGGCCTGTTGTTGAACACTAAGCCTTTCAAGATGGTCCTCCT CAGTATTCTTAGAATTCTTTTTCTTTGTGAACTCGTGCTTTTCATGGAACACAGGGCCCA AATGGCAGAAGGAGGGCAGTCCTCTATTGCCCTTCTGGCTGAGGCCCCTACTTTGCCCCT GATTGAGGAGCTGCTAGAAGAATCCCCTGGCGAACAGCCAAGGAAGCCCCGGCTCCTAGG GCATTCACTGCGGTACATGCTGGAGTTGTACCGGCGTTCAGCTGACTCGCATGGGCACCC TAGAGAGAACCGCACCATTGGGGCCACCATGGTGAGGCTGGTGAAGCCCTTGACCAATGT GGCAAGGCCTCACAGAGGTACCTGGCATATACAGATCCTGGGCTTTCCTCTCAGACCAAA CCGAGGACTATACCAACTAGTTAGAGCCACTGTGGTTTACCGCCATCATCTCCAACTAAC TCGCTTCAATCTCTCCTGCCATGTGGAGCCCTGGGTGCAGAAAAACCCAACCAACCACTT CCCTTCCTCAGAAGGAGATTCCTCAAAACCTTCCCTGATGTCTAACGCTTGGAAAGAGAT GGATATCACACAACTTGTTCAGCAAAGGTTCTGGAATAACAAGGGACACAGGATCCTACG ACTCCGTTTTATGTGTCAGCAGCAAAAAGATAGTGGTGGTCTTGAGCTCTGGCATGGCAC TTCATCCTTGGACATTGCCTTCTTGTTACTCTATTTCAATGATACTCATAAAAGCATTCG GAAGGCTAAATTTCTTCCCAGGGGCATGGAGGAGTTCATGGAAAGGGAATCTCTTCTCCG GAGAACCCGACAAGCAGATGGTATCTCAGCTGAGGTTACTGCCTCTTCCTCAAAACATAG CGGGCCTGAAAATAACCAGTGTTCCCTCCACCCTTTCCAAATCAGCTTCCGCCAGCTGGG TTGGGATCACTGGATCATTGCTCCCCCTTTCTACACCCCAAACTACTGTAAAGGAACTTG TCTCCGAGTACTACGCGATGGTCTCAATTCCCCCAATCACGCCATTATTCAGAACCTTAT CAATCAGTTGGTGGACCAGAGTGTCCCCCGGCCCTCCTGTGTCCCGTATAAGTATGTTCC AATTAGTGTCCTTATGATTGAGGCAAATGGGAGTATTTTGTACAAGGAGTATGAGGGTAT GATTGCTGAGTCTTGTACATGCAGATGACAGCAACAGTACGGCTAGATCAGGTTTCCCAG GA
Restriction Sites:	Please inquire
ACCN:	NM_005448

View online »

Insert Size:	1300 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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_005448.1.
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_005448.1, NP_005439.1
RefSeq Size:	1179 bp
RefSeq ORF:	1179 bp
Locus ID:	9210
UniProt ID:	O95972
Cytogenetics:	Xp11.22
Protein Families:	Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - TGFb/BMP signaling pathway
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 subunits of a disulfide-linked homodimer, or alternatively, a heterodimer, with the related protein, growth differentiation factor 9 (GDF9). This protein plays a role in oocyte maturation and follicular development, through activation of granulosa cells. Defects in this gene are the cause of ovarian dysgenesis and are associated with premature ovarian failure. [provided by RefSeq, Aug 2016]