

Product datasheet for **RG215695**

BMP10 (NM_014482) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMP10 (NM_014482) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BMP10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215695 representing NM_014482 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTCTCTGGTCTGACACTGTGCGCTCTTTCTGCCTGGCAGCTTACTTGGTTTCTGGCAGCCCCA
TCATGAACCTAGAGCAGTCTCCTCTGGAAGAAGATATGTCCCTCTTTGGTGATGTTTTCTCAGAGCAAGA
CGGTGTCGACTTTAACACACTGCTCCAGAGCATGAAGGATGAGTTTCTTAAGACTAAACCTCTCTGAC
ATCCCCACGCAGGATTCAGCCAAGGTGGACCCACCAGAGTACATGTTGGAACCTACAACAAATTTGCCA
CAGATCGGACCTCCATGCCCTTGCCAACATCATTAGGAGTTTCAAGAATGAAGATCTGTTTTCCAGCC
GGTCAGTTTTTAATGGGCTCCGAAAATACCCCTCCTCTTCAATGTGCCATTCTCACCATGAAGAGGTC
ATCATGACTGAACTTAGGCTATACACACTGGTGCAAAGGGATCGTATGATATACGATGGAGTAGACCGGA
AAATTACCATTTTTGAAGTGCTGGAGAGCAAAGGGATAATGAGGGAGAAAGAAACATGCTGGTCTTGGT
GTCTGGGGAGATATATGGAACCAACAGTGAGTGGGAGACTTTTGATGTCACAGATGCCATCAGACGTTGG
CAAAAGTCAGGCTCATCCACCCACCAGCTGGAGGTCCACATTGAGAGCAAACACGATGAAGCTGAGGATG
CCAGCAGTGGACGGCTAGAAATAGATACCAGTGCCAGAATAAGCATAACCCTTTGCTCATCGTGTTTTC
TGATGACCAAAGCAGTGACAAGGAGAGGAAGGAGAACTGAATGAAATGATTTCCATGAGCAACTTCCA
GAGCTGGACAACCTGGGCTGGATAGCTTTTCCAGTGGACCTGGGGAAGAGGCTTTGTTGCAGATGAGAT
CAAACATCATCTATGACTCCACTGCCCGAATCAGAAGGAACGCCAAAGGAACTACTGTAAGAGGACCCC
GCTCTACATCGACTTCAAGGAGATTGGGTGGGACTCCTGGATCATCGCTCCGCTGGATACGAAGCCTAT
GAATGCCGTGGTGTGTTGTAACCTACCCCTGGCAGAGCATCTCACACCCACAAAGCATGCAATTATCCAGG
CCTTGGTCCACCTCAAGAATTCAGAAAGCTTCAAAGCCTGTGTGTGCCACAAAGCTAGAGCCCAT
CTCCATCTCTATTTAGACAAAGGCGTCGTACCTACAAGTTAAATACGAAGGCATGGCCGTCTCCGAA
TGTGGCTGTAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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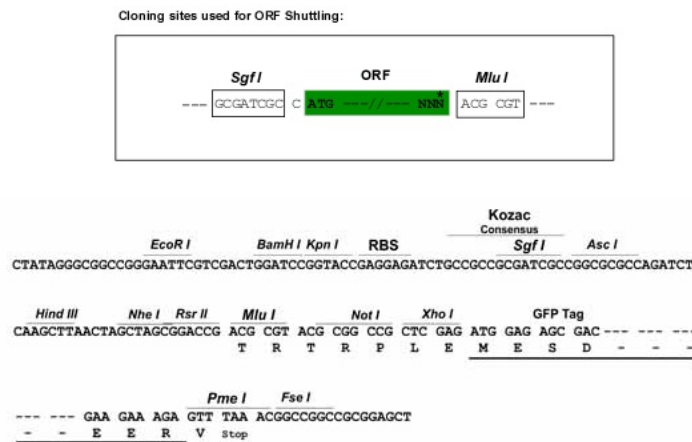
Protein Sequence: >RG215695 representing NM_014482
Red=Cloning site Green=Tags(s)

MGSLVLTLCALFCLAAYLVSGSPIMNLEQSPLEEDMSLFGDVFSEQDGVDFNTLLQSMKDEFKTLNLS
 IPTQDSAKVDPPEYMLELYNKFATDRTSMPSANIIRSFKNEDLFSQPVSFNGLRKYPLLFNVSIPHHEEV
 IMTELRLYLTVQRDRMIYDGVDRKITIFEVLESKGDNEGERNMLVLVSGEYGTNSEWETFVDTDAIRRW
 QKSGSSTHQLEVHIESKHDEAEDASSGRLEIDTSAQNKHNPLLIIVFSDDQSSDKERKEELNEMISHEQLP
 ELDNLGLDSFSSGPGEEALLQMRSNIIYDSTARIRRNAKGNYSKRTPLYIDFKEIGWDSWIIAPPGYEAY
 ECRGVCNYPLAEHLTPTKHAI IQALVHLKNSQKASKACCVPTKLEPISILYLDKGVVYTKFKYEGMAVSE
 CGCR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014482

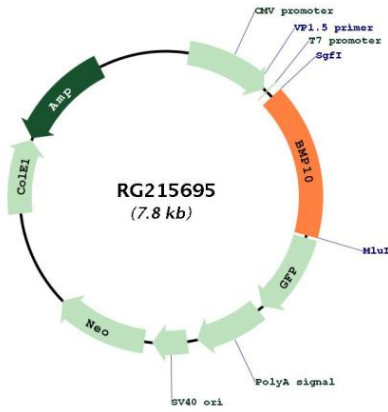
ORF Size: 1272 bp

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 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.
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:	NM_014482.1 , NP_055297.1
RefSeq Size:	1584 bp
RefSeq ORF:	1275 bp
Locus ID:	27302
UniProt ID:	O95393
Cytogenetics:	2p13.3
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
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 the mature protein, which binds to the activin receptor-like kinase 1 (ALK1) and plays important roles in cardiovascular development including cardiomyocyte proliferation and regulation of heart size, closure of the ductus arteriosus, angiogenesis and ventricular trabeculation. [provided by RefSeq, Aug 2016]

Product images:



Circular map for RG215695