

Product datasheet for **RG215047**

BMP8A (NM_181809) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMP8A (NM_181809) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BMP8A
Synonyms:	OP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215047 representing NM_181809 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGCGCCCCGGACCGCTCTGGCTTCTGGCCTGACGTTGTGCGCGCTGGGCGGGGGCGGCCCG
GCCTGCGACCCCCGCCGGCTGTCCCCAGCGACGTCTGGGCGCGCGGAGCGCCGGGACGTGCAGCGCGA
GATCCTGGCGGTGCTCGGGCTACCGGGCGGCCCGGCCCGCGCCACCCGCCCTCCCGGCTGCC
GCGTCCGCGCCGCTTTCATGCTGGACCTGTACCACGCCGTGGTGGCGACGACGAGGACGGCGCGC
CCGCGGAGCAGCGCTGGGCCGCGCCGACTGGTCATGAGCTTCGTC AACATGGTGGAGCGAGACCGTGC
CCTGGGCCACCAGGAGCCCCATTGGAAGGAGTTCGCTTTGACCTGACCCAGATCCCGGCTGGGGAGGCG
GTCACAGCTGCGGAGTTCGGATTTACAAGGTGCCAGCATCCACCTGCTCAACAGGACCTCCACGTCA
GCATGTTCCAGGTGGTCCAGGAGCAGTCCAACAGGGAGTCTGACTTGTCTTTTTGGATCTTCAGACGCT
CCGAGCTGGAGACGAGGGCTGGCTGGTGTGGATGTCACAGCAGCCAGTACTGCTGGTTGCTGAAGCGT
CACAAGGACCTGGGACTCCGCTCTATGTGGAGACTGAGGATGGGCACAGCGTGGATCCTGGCCTGGCCG
GCCTGTGGGTCAACGGGCCACGCTCCCAACAGCCTTTCGTGGTCACTTTCTTCAGGGCCAGTCCGAG
TCCCATCCGACCCCTCGGGCAGTGAGGCCACTGAGGAGGAGGACGCCGAAGAAAACCAACGAGCTGCC
CAGGCCAACCGACTCCAGGGATCTTTGATGACGTCCACGGCTCCACGGCCGCGAGTCTGCCGTCCG
ACGAGCTCTACGTCAGCTTCCAGGACCTTGGCTGGCTGGACTGGTTCATCGCCCCCAAGGCTACTCAGC
CTATTACTGTGAGGGGAGTGTCTCTCCCGCTGGACTCTGCATGAACGCCACCAACACGCCATCCTG
CAGTCCCTGGTGCACCTGATGAAGCCAAACGAGTCCCCAAGGCGTGTGTGCACCCACCAAGCTGAGCG
CCACCTCTGTGCTCTACTATGACAGCAGCAACAACGTATCCTGCGCAAGCACCGCAACATGGTGGTCAA
GGCCTGCGGCTGCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215047 representing NM_181809
 Red=Cloning site Green=Tags(s)

MAARPGPLWLLGLTLCALGGGGPGLRPPPGCPQRRRLGARERRDVQREILAVLGLPGRPRPRAPPAASRLP
 ASAPLFMLDLYHAVAGDDDEDGAPAEQRLGRADLVMSFVNMVERDRALGHQEPHWKEFRFDLTQIPAGEA
 VTAAEFRIYKVPSTHLLNRTLHVSMFQVVQE QSNRESLFFLDLQTLRAGDEGWLVDVTAASDCWLLKR
 HKDLGLRLYVETEDGHSVDPGLAGLLGQRAPRSQQPFVVTFFRASPSPIRTPRAVRPLRRRQPKKTNELP
 QANRLPGIFDDVHGSHGRQVCRRELYVSFQDLGWL DWIAPQGY SAYYCEGECFPLDSCMNATNHAIL
 QSLVHLMKPNVAPKACCAPTKLSATSVLYYDSSNNVILRKHNMVVKACGCH

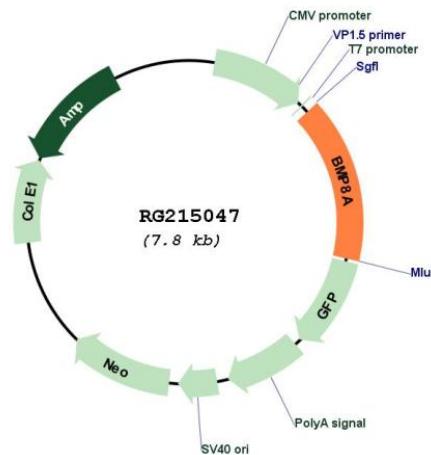
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_181809

ORF Size:	1206 bp
OTI Disclaimer:	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_181809.1 , NP_861525.1
RefSeq Size:	1692 bp
RefSeq ORF:	1209 bp
Locus ID:	353500
UniProt ID:	Q7Z5Y6
Cytogenetics:	1p34.3
Protein Families:	Secreted Protein
Protein Pathways:	Hedgehog signaling pathway, TGF-beta 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 each subunit of the disulfide-linked homodimer. This protein may play a role in development of the reproductive system. This gene may have arose from a gene duplication event and its gene duplicate is also present on chromosome 1. [provided by RefSeq, Jul 2016]