

Product datasheet for **RR204999**

Bmp8a (NM_001109432) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Bmp8a (NM_001109432) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Bmp8a
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RR204999 representing NM_001109432
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGTACGTCCCGGGCCACTCTGGCTATTGGGCTGGCTCTGTGCGCGCTGGGAGGAGGCCACGGTC
 CGCGTCCCCCGCACACCTGTCCCAGCGTCGCCTGGGAGCGCGCGAGCGCCGCGACATGCAGCGGAAAT
 CCTGGCAGTGTCTGGGCTACCCGGGAGACCCCGACCCCGTGCGCCACCCGCCGCTGCTCGGCAGCCAGCA
 TCCGCGCCCTCTTCATGTTGGACCTGTATCACGCCATGACCGATGACGACGACGGCGGGCCACCCGAGG
 CTCACTTGGGCGGTGCCACCTGGTCATGAGCTTCGTCAACATGGTGGAGCGCGACCGTACCCCTGGGTA
 CCAGGAGCCGCACTGGAAGGAATTCACCTTTGACTTAACCCAGATCCCTGCTGGTGAGGCTGTACAGCC
 GCTGAGTTCGGATATACAAAGAGCCAGCACCCACCCGCCAACACAACCCTCCACATCAGCATGTTTG
 AAGTGGTCCAGGAGCGCTCCAACAGGGAGTCTGACTTGTCTTTTTGGATCTTCAGACGCTCCGGTCTGG
 GGACGAGGGCTGGCTGGTGTGGACATCACAGCAGCCAGTGACCGATGGCTGCTGAACCATAACAAGGAC
 CTGGGACTCCGCCTCTATGTGAAACCGAGGATGGGCACAGCCTGGATCCTGGCTGGCTGGTCTGCTTG
 GACAAACAGCACCAGCTCCAGACAGCCTTTTCATGGTCACCTTCTTCAGAGCCAGCTCGAGTCTGTGCG
 GACCCCTCGGGCAGTGAGACCGCTGAAGAGGAGGCAGCCAAAGAAAACAAACGAGCTTCCACATCCCAAC
 AAACCTCCAGGGATCTTTGATGATGGCCACGGTCCCCGAGGCAGAGAGGTTTCCCGCAGACACGAGCTGT
 ACGTCAGCTTCCGTGACCTCGGCTGGCTGGACTGGGTATCGCCCCCAGGGCTACTCCGCCTATTACTG
 TGAGGGAGAGTGTGCTTTCCCACTGGACTCCTGTATGAATGCCACCAACCATGCCATCTTGCAGTCTCTG
 GTGCACCTGATGAAACCAGATGTCTGCCAAAGGCATGCTGTGCTCCACCAAACAGTGGCCACCTCTG
 TGCTCTACTATGACAGCAGCAACAATGTCTCCTCGGGAAGCACCGCCAACATGGTGGTCAAGGCCTCGCG
 CTGCCAC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGGTTTAA



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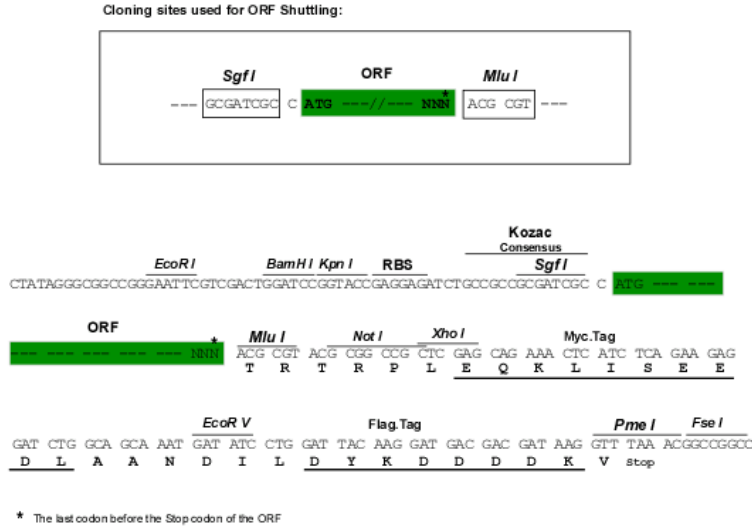
Protein Sequence: >RR204999 representing NM_001109432
Red=Cloning site Green=Tags(s)

MAVRPGPLWLLGLALCALGGGHGPRPPHTCPQRRLGARERRDMQREILAVLGLPGRPRPRAPPAARQPA
 SAPLFMLDLYHAMTDDDDGGPPQAHLAGRADLVMSFVNMVERDRTLGYQEPHWKEFHFDLTQIPAGEAVTA
 AEFRIYKEPSTHPPNTTLHISMFEVVQERSNRESDLFFLDLQTLRSGDEGWLVLDITAASDRWLLNHNKD
 LGLRLYVETEDGHSLDPGLAGLLGQTAPRSRQPFMVITFRASSSPVRTPPRAVRPLKRRQPKKTNELPHPN
 KLPGIFDDGHGSRGREVCRRHELIVSFRDLGWLWVIAPOGYSAYYCEGECAFLDSCMNATNHAILQSL
 VHLMKPDVVPKACCAPTCLSATSVLVYDSSNNVILRKHRNMVVKACGCH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001109432

ORF Size: 1197 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:

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_001109432.1, NP_001102902.1

RefSeq Size: 1919 bp

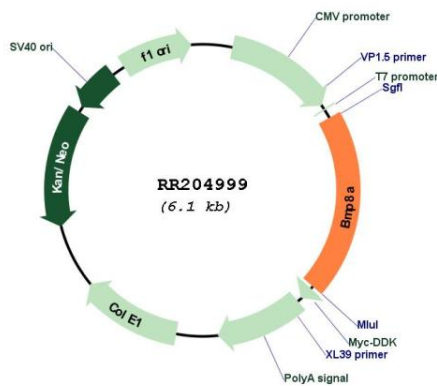
RefSeq ORF: 1200 bp

Locus ID: 680931

Cytogenetics: 5q36

MW: 44.7 kDa

Product images:



Circular map for RR204999