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Product datasheet for RR207789

Bop1 (NM_001024250) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bop1 (NM_001024250) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bop1
Synonyms:	MGC109114
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR207789 representing NM_001024250
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGGGCGTGTGGTAAGCACCACATGTCACCGGGATCGCTGCCAGGGAAACGGCGTTTGGAACCTG
ATCAGGAGCCACAGATACAAGAGCCTCTTCTCCTCAGCGACCCTGACTCCAGTCTCTCTGACAGCGAGGA
GAGTGTGTTTTCAGGCCTTGAAGATTCTGGCAGTGACACGAGTGACGAGGACACTGAAGAAGTGGCCAGA
GCTGGTTGTGACAAAGACAATAGAACAGAGAAGACCTCTGAGGAGCAGGAACAGGCTGTGCCCCCTTGCC
CAAGGGCAGAGGAAGCAGGTGCTCTGACCAGAGATGAGTATGAAGAGGACAGCTCTGATGAGGAGGACAT
TCGGAACACCGTGGGCAATGTGCCCCTGGCGTGGTATGACGATTTCCCACATGTGGGCTATGACCTGGAC
GGCAAACGTATCTATAAGCCCCTGCGGACACGAGATGAGCTGGACCAGTTTCTGGACAAAATGGATGACC
CAGATTTCTGGCGCACTGTGCAAGACAAGATGACAGGGAGTGATCTTCGGCTGACTGATGAGCAGGTTGC
CCTGGTACATCGGCTTCAGAGAGGCCAGTTTGGAGATTCAGGCTTTGACCCCTATGAGCCAGCTGTGGAT
TTCTTCAGTGGTGACATCATGATCCACCCCGTGACCAACCGCCCAGCTGACAAACGTAGTTTCATCCCGT
CCCTAGTTGAGAAGGAGAAGGTGTCTCGATTGGTGCATGCCATCAAGATGGGTTGGATCAAGCCTCGACG
GCCCCCCGACTCCACTCCTAGCTTCTATGACCTGTGGGCCCAGGAGGATCCAAATGCTGTGTTGGGGCGC
CACAAGATGCACGTGCCTGCACCCAAGCTGGCCCTGCCCGGCCATGCGGAGTCTTACAACCCACCTCCCG
AGTACCTGCCCACTGAGGAGGAGCGCTTGGCATGGATGCAGCAGGAGCCCATTGAGAGGAAGCTTAACTT
CTTACCACAGAAGTTCCCCAGCCTGAGGACAGTGCCTGCTTATGGCCGCTTCATCCAGGAGCGTTTTGAA
CGCTGTCTTGATTTGTATCTGTGCCCACGGCAGCGCAAGATGAGGGTGAATGTGGATCCCGAAGACCTCA
TCCCCAAGCTCCCTCGGCCAAGAGACCTTCAGCCTTTCCCTGTGTGCCAGGCCCTTGTCTACAGGGGCCA
CAGCGACCTTGTCCGTTGCCTCAGTGTCTCCCCAGGGGGCCAGTGGCTAGCTTCAGGTTCAGACGACGGC
ACATTGAGGCTTTGGGAGGTGGCCACTGCCCGCTGCATGAAGACGGTGCGTGTTGGAGGTGTGATACGGA
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GCTGTCCAGCCAAGGGCACACTCAAGTGCTGATCCACCAGCTGAGCAGAAGGCGCAGCCAGAGCCCATTC
CGCCGCAGCCACGGACAGGTGCAGTGTGTGGCTTTCCATCCCACGCGGCCCTTCCTGCTTGTGGCCTCCC
AGCGCAGCATCCGCATTTACCACCTGCTACGCCAGGAGCTTACGAAGAAGCTGATGCCTAACTGCAAGTG
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TGGTTTGACCTGGATCTTTCCACCAAGCCATACAAAGTGCTGAGGCACCACAAGAAGGCCTTGCGGGCTG
TGGCCTTCCACCCCCGATACCCACTCTTTGCATCCGGCTCAGACGACGGCAGCGTTATCGTTTGCCATGG
CATGGTGTACAATGACCTGCTGCAGAACCCATTGCTGGTGCCCGTCAAGGTGCTTAAGGGACACAGCCTG
ACCCGAGATCTGGGTGTACTGGATGTGGCCTTCCACCCCACACAGCCATGGGTCTTCTCCTCCGGGGCAG
ATGGCACCATTCGACTCTTCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

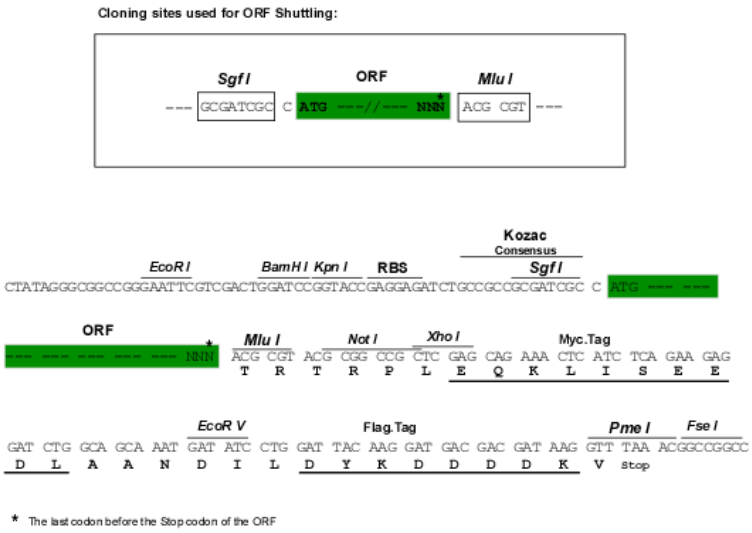
>RR207789 representing NM_001024250
Red=Cloning site Green=Tags(s)

MAGACGKHHMSPGSLPGKRRLEPDQEPQIQEPLLLSDPDSSLSDSEESVFSGLEDSGSDTSDEDTEEVAR
AGCDKDNRTEKTSEEQEQAVPPCPRAEEAGALTRDEYEEDSSDEEDIRNTVGNVPLAWYDDFPHVGYDLD
GKRIYKPLRTRDELDQFLDKMDDPDFWRTVQDKMTGSDLRLTDEQVALVHRLQRGQFGDSGFDPYEPAVD
FFSGDIMIHPVTNRPADKRSFIPSLVEKEKVSRLVHAIKMGWIKPRRPPDSTPSFYDLWAQEDPNAVLGR
HKMHVPAPKLALPGHAESYNPPPEYLPTEEERLAWMQQEPIERKLNFLPQKFPSLRTVPAYGRFIQERFE
RCLDLYLCPRQRKMRVNVDPEDLIPKLPRPRDLQPFPVCQALVYRGHSDLVRCLSVSPGGQWLASGSDDG
TLRLWEVATARCMKTVRVGGVIRSIAWNPNPTICLVAAAMDDAVVLLNPALGDRLLVGSTDQLLETFTPP
EEPTLQPAHWLEVSEEERQRGLRLRICHSKPVTQVTWHGRGDYLAVVLSSQGHTQVLIHQLSRRRSQSPF
RRSHGQVQCVAFHPTRPFLLVASQRSIRIYHLLRQELTKKLMPNCKWVSSMAVHPAGDNIICGSYDSKLV
WFDLDLSTKPYKVLRHHKKALRAVAFHPRYPLFASGSDDGSVIVCHGMVYNDLLQNPLLVPVKVLKGHSL
TRDLGVLDVAFHPTQPWVFSSGADGTIRLFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001024250

ORF Size: 2193 bp

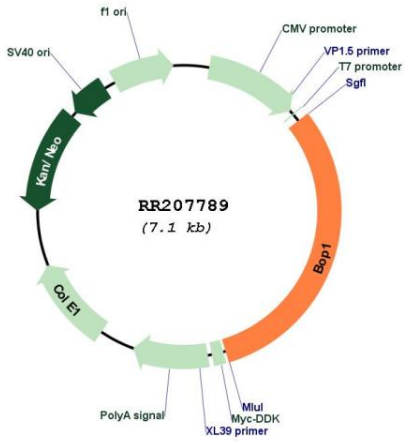
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001024250.1, NP_001019421.1
RefSeq Size:	2587 bp
RefSeq ORF:	2196 bp
Locus ID:	300050
UniProt ID:	Q562C2
Cytogenetics:	7q34
MW:	82.6 kDa
Gene Summary:	Component of the PeBoW complex, which is required for maturation of 28S and 5.8S ribosomal RNAs and formation of the 60S ribosome.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR207789