

Product datasheet for **RR205856**

Bap1 (NM_001107292) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bap1 (NM_001107292) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bap1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR205856 representing NM_001107292
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAATAAGGCTGGCTGGAGCTGGAGAGTGACCCGGCCTCTTACCCTCCTGGTGAAGATTTCCGTA
 AGAACCCCTTTACCCCGATCGTCGGGCCCTGGCTGGTGTCAAAGGGGTGCAAGTGGAGGAGATCTATGA
 CCTTCAGAGTAAATGCCAGGGCCGTGTATATGGATTTATCTTCTGTTCAAATGGATCGAAGAGCGCAGG
 TCCCGCCGAAGTTTCTACGTTGGTGGATGATACATCTGTGATTGATGATGACATCGTGAATAGCATGT
 TCTTTGCTCACCAGCTGATTCCTCAACTCTGTGCCACTCACGCCTTGTGAGCGTGCTTCTGAAGTGCAG
 CAATGTGGATTTGGGGCCACGCTGAGTGAATGAAGGATTTACCAAAGGCTTCAGCCCTGAGAGCAAA
 GGATATGCGATTGGCAATGCCCTGAACTGGCCAAGGCACATAATAGCCATGCCAGGCCAGAACCCAGTCC
 ACCTTCTGAGAAACAGAATGGCCTCAGTGCAGTGGGACCATGGAGGCGTTTCACTTTGTCAGCTATGT
 GCCTATCACAGGACGGCTCTTTGAATTGGATGGGTTGAAAGTCTACCCTATTGATCATGGGCCCTGGGGA
 GAGGATGAGGAGTGGACAGATAAAGCCGAAGGGTCATCATGGAGCGAATCGGCCTTGTACTGCAGGGG
 AGCCCTACCATGACATTCGCTTCAACCTGATGGCAGTGGTGCCTGACCGCAGGGTTAAGTATGAGGCCAG
 GCTGCATGTGCTGAAGGGGAACCGACAACAGTCTGGAGGCCCTGCAGCAGCTGATTAGAGTAACACAG
 CCAGAGCTGATTCAGACCCACAAATCTCAAGAGTCAACTGCCTGAGGAGAGCAAGCCAGCCAGCAGCA
 AGTCTCCCTTTGGGCTAGAGGCGGGCAGAACCCCGCGGCCCTCTGAGTGCCTCACACAGATGGTGCAGA
 GGAGGTGGCTGGTTCTGTCGCCACAACTACAACCCATAGTCTCCAGCAAACTAAGCTGGTGGTGAAG
 CCTTCAGGGAGCAGCCTCAATGGGGTCCCCCAACCCCTACCCTATTGTCCAGCGGTGCCAGCCTTTC
 TAGATAATCACAAATTATGCCAAATCCCCTATGCAGGAGGAGGAAGACCTGGCGGCAGGTGGGGCCGAG
 CCGAGTTCAGTCCGACCCAGCAGTACTCTGATGATGAGGAGGACTATGAGGATGAGGAGGAGGATGTG
 CAGAATACCAGTTCGCCATCAGATACAAGCGGAAGGGACAGGGAAGCCAGGATCGTTGAGCAATTCTT
 CAGATGGGAGCTGTGAGTGTGACGCCAACACCATCAATGTCTTAACTGAGAAGCTTCAAGAGTCTCA
 GAAAGACCTTTCAATTCCTCTGTCCATCAAGACTAGCAGTGGGGCTGGGAGTCCAGCCGTGGCTGTGCC
 ACACACTCGCAGCCTTACCCACCCCTAGCAATGAGAGCACGGACACAGCCTCTGAGATTGGCAGTGCTT
 TCAACTCACCTTGCCTCACCCATCCGCTCAGCCAACCAACACGGCCCTTAGCCCTGTACCTCTCA
 CATCTCCAAGGTCTCTTTGGAGAAGATGACAGCCTACTTCGTGTTGACTGCATACGCTACAACCGTGT
 GTCGCTGACCTGGTCTGTCTATTAGCACGGCCCTGCTGCACCTTGTGAGGATGGTGTACTGAGTCCCC
 TGGCACTCACAGAGGGTGGGAAGGGTCCCTCACCTTCTACCAGATCAAGCCAAGGCAGCCAGGGGTCCAG
 CAGCCTAGAGGAGAAGGAGGTGGTGAAGTCAAGATAGCAGAGACAAGTCTGGGCTGAACAGGTCCAGT
 GAGCCCTTGAAGTGGAGAGAAGTACTCGCCCAAGGAGCTGTTAGCACTGTTAAAGTGTGTAGAGGCCGAGA
 TTGCAAACTATGAGGCCCTGTCTCAAGGAGGAGGTGGAGAAAAGGAAGAAGTTCAAGATTGATGACCAGCG
 AAGGACCCACAACATGATGAGTTTATCTGCACCTTATATCCATGCTGGCTCAGGAAGGAATGCTGGCC
 AACCTGGTGGAGCAGAACATCTCAGTGGCGCCGCCAAGGGTCAAGATTGGTCCGCTTACAAGCAGC
 GGAAGCCTGATAGGCGGAAACGCTCTCGCCCTACAAGGCCAAACGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205856 representing NM_001107292
 Red=Cloning site Green=Tags(s)

MNKGWLELESDPGLFTLLVEDFGKNPFPDRRALAGVKGVQVEEIDYDLSKQCQGPVYGFIFLFWIEERR
 SRRKVSTLVDDTSVIDDDIVNSMFFAHQLIPNSCATHALLSVLLNCSNVDLGPTLSRMKDFTKGFSPEK
 GYAIGNAPELAKAHNSHARPEPRHLPEKQNL SAVRTMEAFHFVSYVPI TGR LFELDGLKVYPIDHGPWG
 EDEEWDKARRVIMERIGLATAGEPYHDIRFNLMAVVPDRRVKYEARLHVLKGNRQTVLEALQQLIRVTK
 PELIQTHKSQESQLPEESKPASSKSPFGL EAGRTPAASECTHTDGAEEVAGSCPQTTHSPPSKSLVVK
 PSGSSLNGVPPTPTPIVQRLPAFLDNHNYAKSPMQEEEDLAAGVGRSRVPVRPQQYSDDEEDYEDEEDV
 QNTSSAIRYKRKGTGKPGSLSNSDQQLSVLQPNTINVLTEKLQESQKDSLIPLSIKTSSGAGSPAVAVP
 THSQPSPTPSNESTDTASEIGSAFNSPLRSPIRSANPTRPSSPVTSHISKVLFGEDDLLRVDCIRYNRA
 VRDLGPVISTGLLHLAEDGVL SPLALTEGGKSSPSTRSSQGSQSSSLEEKEVVEVTDSDRDKSGLNRSS
 EPLSGEKYSPKELLALLKCVAEIANYEACLKEEVEKRRKFKIDDQRRTTHNYDEFICTFISMLAQEGMLA
 NLVEQNISVRRRQGVSIGRLHKQRKPRRKRSPYKAKRQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001107292

ORF Size: 2220 bp

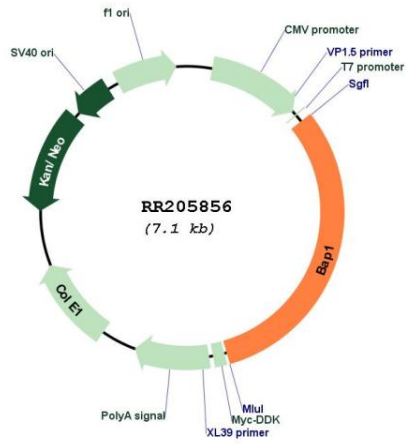
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_001107292.1, NP_001100762.1</u>
RefSeq Size:	3751 bp
RefSeq ORF:	2223 bp
Locus ID:	306257
UniProt ID:	<u>D3ZHS6</u>
Cytogenetics:	16p16
MW:	81.7 kDa
Gene Summary:	<p>Deubiquitinating enzyme that plays a key role in chromatin by mediating deubiquitination of histone H2A and HCFC1. Catalytic component of the PR-DUB complex, a complex that specifically mediates deubiquitination of histone H2A monoubiquitinated at 'Lys-119' (H2AK119ub1). Does not deubiquitinate monoubiquitinated histone H2B. Acts as a regulator of cell growth by mediating deubiquitination of HCFC1 N-terminal and C-terminal chains, with some specificity toward 'Lys-48'-linked polyubiquitin chains compared to 'Lys-63'-linked polyubiquitin chains. Deubiquitination of HCFC1 does not lead to increase stability of HCFC1. Interferes with the BRCA1 and BARD1 heterodimer activity by inhibiting their ability to mediate ubiquitination and autoubiquitination. It however does not mediate deubiquitination of BRCA1 and BARD1. Able to mediate autodeubiquitination via intramolecular interactions to counteract monoubiquitination at the nuclear localization signal (NLS), thereby protecting it from cytoplasmic sequestration. Acts as a tumor suppressor. [UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RR205856