

Product datasheet for **MR210327**

Bap1 (NM_027088) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bap1 (NM_027088) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bap1
Synonyms:	2300006C11Rik; AA989761; AW553466; mKIAA0272; uch-x4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR210327 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAATAAGGCTGGCTGGAGCTGGAGAGTGACCCAGGCCTCTCACCTCCTGGTGAAGATTTCCGGT
TCAAAGGGGTGCAAGTGGAGGAGATCTATGACCTTCAGAGTAAATGCCAGGGCCTGTGTATGGATTAT
CTTCTGTCAAATGGATCGAAGAGCGCAGGTCCCGCCGCAAGGTTTCTACGTTGGTGGATGACACGTCT
GTGATTGATGATGATATTGTGAATAACATGTTCTTTGCTCACCAGCTGATCCCAACTCTGTGCCACTC
ACGCCCTTGCTAAGCGTGCTTCTGAACTGCAGCAATGTGGATCTGGGGCCACGCTGAGCCGAATGAAGGA
TTTCACCAAAGGCTTCAGTCTGAGAGCAAAGGATATGCAATTGGCAATGCCCTGAACTGGCCAAGGCA
CATAATAGCCATGCCAGGCCAGAACCACGTACCTTCTGAGAAACAGAATGGCCTCAGTGCAGTGCGGA
CCATGGAGGCGTTTCATTTTGTGAGCTATGTGCCTATCACAGGGAGGCTCTTTGAATTGGATGGATTGAA
AGTCTACCAATTGATCATGGGCCCTGGGGAGAGGACGAGGAGTGACAGATAAAGCTCGAAGGGTCATC
ATGGAGCGAATCGGTCTTGTACTGCAGGGGAGCCCTATCATGACATTCGCTTCAACCTGATGGCAGTGG
TGCTGACCGCAGGATTAAGTATGAGACCAGGCTACATGTAAGGTGAACCGACAAACAGTCCCTGGA
GGCCCTGCAGCAGCTGATTAGAGTAACCCAGCCGAGCTGATTACAGCCACAAAATCTCAAGAGTCACAG
CTGCCTGAGGAGAGCAAGCCAGCCAGCAGCAAGTCCCCCTTGGACTGGAGGCAGGCAGAACCCCAAGTGG
CCTCTGAGTGCCTCAGACAGATGGTGCAGAGGAGGTGGCTGGTTCGTGCCACAAAATACAACCCATAG
TCCTCCAGCAAAATGTAAGCTGGTGGTGAAGCCTCCAGGGAGCAGCCTCAATGGGTTCCCCAAACCT
GCCCTATTGTCCAGCGGCTGCCAGCCTTCTAGACAATCACAATTATGCCAAATCCCCTATGAGGAGG
AGGAAGACCTGGCGCAGGAGTGGTTCGAGCCGCTCCCGTCCGAGCGCCACAGCAGTACTCTGAAGA
CGAGGATGACTACGAGGATGAGGACGAGGACGTGCAAGAACAACCCCTGCCATCAGATACAAGCGGAAG
GGGACAGGGAAGCCAGGATCGTTGAGCAATTCTCAGATGGGCAGCTGTGAGTGCAGCCCAACACCA
TCAATGTCTTAACTGAGAAGCTTCAAGAGTCTCAGAAAGACCTTTCAGTTCCTCTGTCCATCAAGACTAG
CAGTGGGGCTGGGAGTCCAGCTGTGGCTGTGCCACACACTCGCAACCTTCAACCCACCCCTAGCAATGAG
AGCACGGACACAGCCTCTGAGATTGGCAGTGCTTCAACTCACCTTGCCTCGCCATCCGCTCGGCCA
ACCCAACAGGCCCTCTAGCCCTGTACCTCTCACATCTCCAAGGTGCTTTTTGGAGAAGATGACAGCCT
ACTTCGTGTTGACTGCATACGCTACAACCGTGCTGTCGTCAGCTGGGTCTGTGATTAGCACGGGCCTG
CTGCACCTTGCTGAAGATGGTGTACTGAGTCCCCTGGCACTCACAGGGGTGGGAAGGTTCCCTCACCTT
CTACCAGATCAAGCCAAGGCAGCCAGGGGTCCAGTGGCCTAGAGGAGAAGGAGGTGGTGAAGTCACAGA
GAGCAGAGACAAGCCTGGGCTGAACAGGTCAGTGGAGGAGGAGTACTACCCAAGGAG
CTGCTAGCACTGTAAAGTGTGTAGAAGCCGAGATTGCAAATATGAGGCTGTCTCAAGGAGGAGGTGG
AGAAAAGGAAGAAGTTCAAGATTGATGACCAGCGAAGGACCCACAATATGACGAGTTTATCTGTACCTT
CATATCCATGCTGGCTCAGGAAGGAATGCTGGCCAACCTAGTGGAAACAGAATCTCAGTGGCCGGCGC
CAAGGGTTCAGCATTGGGCGGCTTACAAGCAGCGGAAGCCTGACCGCGGAACGCTCTCGCCCTACA
AGGCCAAACGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210327 protein sequence
 Red=Cloning site Green=Tags(s)

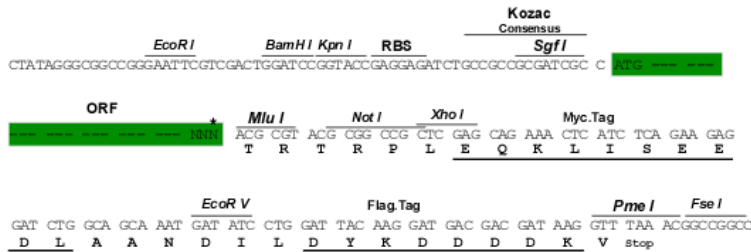
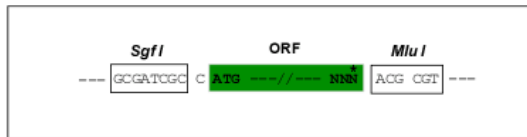
MNKGWLELESDPGLFTLLVEDFGVKGQVEEIDYDLSKQCGPVYGFIFLFWIEERRSRKRVSTLVDDTS
 VIDDDIVNNMFFAHQLIPNSCATHALLSVLLNCSNVDLGPTLSRMKDFTKGFSPEKGYAIGNAPELAKA
 HNSHARPEPRHLPEKQNGLSAVRTMEAFHFVSYVPIITGRLFELDGLKVYPIDHGPWGEDEEWTDKARRVI
 MERIGLATAGEPYHDIRFNLMVVPDRRIKYETRLHVLKVNRTVLEALQQLIRVTQPELIQTHKSQESQ
 LPEEKPASSKSPGLEAGRTPVASECTQTDGAEVAGSQCPTTTHSPPSKCKLVVKPPGSSLNGVPPNP
 APIVQRLPAFLDNHNYAKSPMQEEEDLAAGVGRSRVPVVRAPQQYSEDEDDYDEDEDVQNTNPAIRYKRK
 GTGKPGSLSNSSDGQLSVLQPNTINVLTEKLQESQKDLVPLSIKTSAGSPAVAVPTHSPSPPTSPNE
 STDTASEIGSAFNSPLRSPIRSANPTRPSPVTSISKVLFGEDDSLRLVDCIRYNRAVRDLGPVISTGL
 LHAEEDGVL SPLALTEGGKGSPPSTRSSQGSQSSGLEEKVEVETE SRDKPGLNRSSEPLSGEKYSPKE
 LLALLKCVEAEIANYEACLKEEVEKRKKFKIDDQRRTHNYDEFICTFISMLAQEGLANLVEQNISVRRR
 QGVSIGRLHKQRKPRRKR SRPYKAKRQ

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_027088

ORF Size: 2187 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_027088.2](#), [NP_081364.1](#)

RefSeq Size: 3406 bp

RefSeq ORF: 2187 bp

Locus ID: 104416

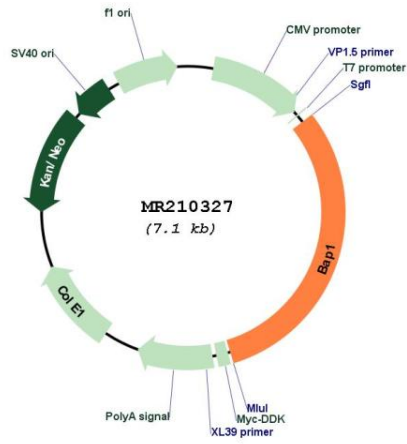
UniProt ID: [Q99PU7](#)

Cytogenetics: 14 B

MW: 80.5 kDa

Gene Summary: 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]

Product images:



Circular map for MR210327