

Product datasheet for **MG210327**

Bap1 (NM_027088) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bap1 (NM_027088) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bap1
Synonyms:	2300006C11Rik; AA989761; AW553466; mKIAA0272; uch-x4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210327 representing NM_027088
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATAAGGGCTGGCTGGAGCTGGAGAGTGACCCAGGCCTCTCACCCCTCTGGTGAAGATTTCCGGT
 TCAAAGGGGTGCAAGTGGAGGAGATCTATGACCTTCAGAGTAAATGCCAGGGCCTGTGTATGGATTAT
 CTTCTGTTCAAATGGATCGAAGAGCGCAGGTCCCGCCGCAAGGTTTCTACGTTGGTGGATGACACGTCT
 GTGATTGATGATGATATTGTGAATAACATGTTCTTTGCTCACCAGCTGATCCCAACTCTGTGCCACTC
 ACGCCTTGCTAAGCGTGTCTGAACTGCAGCAATGTGGATCTGGGGCCACGCTGAGCCGAATGAAGGA
 TTTACCAAAGGCTTCAGTCTGAGAGCAAAGGATATGCAATTGGCAATGCCCTGAACTGGCCAAGGCA
 CATAATAGCCATGCCAGGCCAGAACCACGTACCTTCTGAGAAACAGAATGGCCTCAGTGCAGTGGGA
 CCATGGAGGCGTTTCATTTTGTAGCTATGTGCCTATCACAGGGAGGCTCTTTGAATTGGATGGATTGAA
 AGTCTACCAATTGATCATGGGCCCTGGGAGAGGACGAGGAGTGACAGATAAAGCTCGAAGGGTCATC
 ATGGAGCGAATCGGTCTTGTACTGCAGGGGAGCCCTATCATGACATTCCGTTCAACCTGATGGCAGTGG
 TGCTGACCGCAGGATTAAGTATGAGACCAGGCTACATGTAAGGTGAACCGACAAACAGTCCCTGGA
 GGCCCTGCAGCAGCTGATTAGAGTAACCCAGCCGGAGCTGATTACAGCCACAAAATCTCAAGAGTCACAG
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 TCCTCCAGCAAAATGTAAGCTGGTGGTGAAGCCTCCAGGGAGCAGCCTCAATGGGTTCCCCAAACCT
 GCCCTATTGTCCAGCGGCTGCCAGCCTTCCTAGACAATCACAATTATGCCAAATCCCCTATGAGGAGG
 AGGAAGACCTGGCGCAGGAGTGGTCCGAGCCGCTCCCGTCCGAGCGCCCAAGCAGTACTCTGAAGA
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 AGCACGGACACAGCCTCTGAGATTGGCAGTGTCTTCAACTCACCTTGCCTCGCCATCCGCTCGGCCA
 ACCCAACAGGCCCTCTAGCCCTGCACCTCTCACATCTCCAAGGTGCTTTTTGGAGAAGATGACAGCCT
 ACTTCGTGTTGACTGCATACGCTACAACCGTGTCCGTGACCTGGGTCTGTGATTAGCACGGGCCTG
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 CTACCAGATCAAGCCAAGGCAGCCAGGGTCCAGTGGCCTAGAGGAGAAGGAGGTGGTGAAGTCACAGA
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 CTGCTAGCACTGTAAAGTGTGTAGAAGCCGAGATTGCAAATATGAGGCCTGTCTCAAGGAGGAGGTGG
 AGAAAAGGAAGAAGTTCAAGATTGATGACCAGCGAAGGACCCACAATATGACGAGTTTATCTGTACCTT
 CATATCCATGCTGGCTCAGGAAGGAATGCTGGCCAACCTAGTGGAAACAGAATCTCAGTGGCCGGCGC
 CAAGGGTTCAGCATTGGGCGGCTTACAAGCAGCGGAAGCCTGACCGCGGAAACGCTCTCGCCCTACA
 AGGCCAAACGCCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210327 representing NM_027088
 Red=Cloning site Green=Tags(s)

MNKGWLELESDPGLFTLLVEDFGVKGVQVEEIDYDLSKQCGPVYGFIFLFKWIEERRSRKRVSTLVDDTS
 VIDDDIVNNMFFAHQLIPNSCATHALLSVLLNCSNVDLGPTLSRMKDFTKGFSPEKGYAIGNAPELAKA
 HNSHARPEPRHLPEKQNGLSAVRTMEAFHFVSYVPIITGRLFELDGLKVYPIDHGPWGEDEEWTDKARRVI
 MERIGLATAGEPYHDIRFNLMVVPDRRIKYETRLHVLKVNRTVLEALQQLIRVTQPELIQTHKSQESQ
 LPPEESKPASSKSPGLGLEAGRTPVASECTQTDGAEVAGSCPQTTTHSPPSKCKLVVKPPGSSLNGVPPNP
 APIVQRLPAFLDNHNYAKSPMQEEEDLAAGVGRSRVPVRAPQQYSEDEDDYEDEDVQNTNPAIRYKRRK
 GTGKPGSLSNSSDGQLSVLPQNTINVLTEKLQESQKDLVPLSIKTSSGAGSPAVAVPTHSQSPSTPSNE
 STDASEIGSAFNSPLRSPIRSANPTRPSSPVTSHISKVLFGEDDSLRLVDCIRYNRAVRDLGPVISTGL
 LHLAEDGVL SPLALTEGGKGSSTRSSQGSQSSGLEEKVEVETE SRDKPGLNRSSEPLSGEKYSPKE
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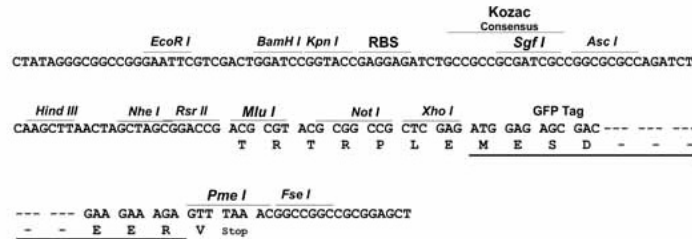
TRTRPLE - GFP Tag - V

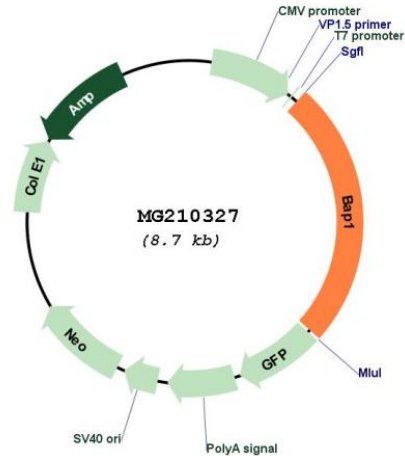
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_027088

ORF Size: 2184 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

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]