

Product datasheet for **RG200378**

BAP1 (NM_004656) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAP1 (NM_004656) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BAP1
Synonyms:	hucep-6; HUCEP-13; UCHL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200378 representing NM_004656
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATAAGGGCTGGCTGGAGCTGGAGAGCGACCCAGGCCTCTCACCTGCTCGTGAAGATTTCCGGT
 TCAAGGGGTGCAAGTGGAGGAGATCTACGACCTTCAGAGCAAATGTCAGGGCCCTGTATATGGATTTAT
 CTTCTGTCAAATGGATCGAAGAGCGCCGCTCCCGCGCAAAGGTCTCTACCTTGGTGGATGATACGTCC
 GTGATTGATGATGATATTGTGAATAACATGTTCTTTGCCACCAGCTGATACCCAACCTCTGTGCAACTC
 ATGCCCTTGTGAGCGTGTCTGAACTGCAGCAGCGTGGACCTGGGACCCACCCTGAGTCGCATGAAGGA
 CTTACCAAGGGTTTTAGCCCTGAGAGCAAAGGATATGCGATTGGCAATGCCCGGAGTTGGCCAAGGCC
 CATAATAGCCATGCCAGGCCGAGCCACGCCACCTCCCTGAGAAGCAGAATGGCCTTAGTGCAGTGGGA
 CCATGGAGGCGTCCACTTTGTAGCTATGTGCCTATCACAGGCCGGCTCTTTGAGCTGGATGGGCTGAA
 GGTCTACCCATTGACCATGGGCCCTGGGGGAGGACGAGGAGTGACAGACAAGGCCCGCGGGTTCATC
 ATGGAGCGTATCGGCCTCGCCACTGCAGGGGAGCCCTACCACGACATCCGCTTCAACCTGATGGCAGTGG
 TGCCCCACCGCAGGATCAAGTATGAGGCCAGGCTGCATGTGCTGAAGGTGAACCGTCAGACAGTACTAGA
 GGCTCTGCAGCAGCTGATAAGAGTAACACAGCCAGAGCTGATTCAGACCCACAAGTCTCAAGAGTCACAG
 CTGCCTGAGGAGTCCAAGTCAGCCAGCAACAAGTCCCCGCTGGTGTGGAAGCAAACAGGGCCCCCTGCAG
 CCTCTGAGGGCAACCACACAGATGGTGCAGAGGAGGCGGCTGGTTCATGCGCACAAAGCCCATCCCACAG
 CCCTCCCAACAAACCAAGCTAGTGGTGAAGCCTCCAGGCAGCAGCCTCAATGGGGTTACCCCAACCCC
 ACTCCCATTGTCCAGCGGCTGCCGGCCTTTCTAGACAATCACAATTATGCCAAGTCCCCATGCAGGAGG
 AAGAAGACTGGCGCAGGTGTGGCCGACGCCGAGTCCAGTCCGCCACCCACAGCAGCTCAGATGA
 TGAGGATGACTATGAGGATGACGAGGAGGATGACGTGCAGAACCAACTCTGCCCTTAGGTATAAGGGG
 AAGGGAACAGGAAGCCAGGGCATTGAGCGGTTCTGCTGATGGGCAACTGTCAGTGTGACGCCAACA
 CCATCAACGTCTTGGCTGAGAAGCTCAAAGAGTCCCAGAAGGACCTCTCAATTCCTCTGTCCATCAAGAC
 TAGCAGCGGGCTGGGAGTCCGGCTGTGGCAGTGCACACACTCGCAGCCCTCACCCACCCCAAGCAAT
 GAGAGTACAGACACGGCCTCTGAGATCGGCAGTGTCTTCAACTCGCCACTGCGCTCGCTATCCGCTCAG
 CCAACCCGACGCGGCCCTCCAGCCCTGTACCTCCACATCTCCAAGGTGCTTTTTGGAGAGGATGACAG
 CCTGCTGCGTGTGACTGCATACGCTACAACCGTGTGTCCGTGATCTGGGTCTGTATCAGCACAGGC
 CTGCTGCACCTGGCTGAGGATGGGTGTGAGTCCCCTGGCGTGCAGAGGGTGGGAAGGGTCTCTCGC
 CCTCCATCAGACCAATCCAAGGCAGCCAGGGTCCAGCAGCCAGTGGAGAAGGAGTCTGGAAGCCAC
 GGACAGCAGAGAGAAGACGGGGATGGTGAAGCCTGGCGAGCCCTTGAGTGGGGAGAAATACTCACCCAAG
 GAGCTGCTGGCACTGCTGAAGTGTGTGGAGGCTGAGATTGCAAATATGAGGCGTGCCTCAAGGAGGAGG
 TAGAGAAGAGGAAGAAGTTCAAGATTGATGACCAGAGAAGGACCCACAACCTACGATGAGTTCATCTGCAC
 CTTTATCTCCATGCTGGCTCAGGAAGGCATGCTGGCCAACCTAGTGGAGCAGAACATCTCCGTGCGGCGG
 CGCCAAGGGTTCAGCATCGGCCGGCTCCACAAGCAGCGGAAGCCTGACCGCGGAAACGCTCTCGCCCT
 ACAAGGCCAAGCGCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200378 representing NM_004656
Red=Cloning site Green=Tags(s)

MNKGWLELESDPGLFTLLVEDFGVKGVQVEEIDYDLSKQCGPVYGFIFLFWIEERRSRRKVSTLVDDTS
 VIDDDIVNNMFFAHQLIPNSCATHALLSVLLNCSSVDLGPTLSRMKDFTKGFSPEKGYAIGNAPELAKA
 HNSHARPEPRHLPEKQNGLSAVRTMEAFHFVSYVPIITGRLFELDGLKVYPIDHGPWGEDEEWTDKARRVI
 MERIGLATAGEPYHDIRFNLMVVPDRRIKYEARLHVLKVNRTVLEALQQLIRVTQPELIQTHKSQESQ
 LPPEESKASNKSPVLVEANRAPAAASEGNHTDGAEEAAGSCAQAPSHSPPNPKLVVKKPGSSLNGVHPNP
 TPIVQRLPAFLDNHNYAKSPMQEEEDLAAGVGRSRVPVPRPPQQYSDEDDYEDDEEDDVQNTNSALRYKG
 KGTGKPGALSGSADGQLSVLQPNTINVLAEKLKESQKDL SIPLSIKTSSGAGSPAVAVPHTSQSPSTPSN
 ESTDTASEIGSAFNPLRSPIRSANPTRPSSPVTSHISKVLFGEDDLLRVDCIRYNRAVRDLGPVISTG
 LLHLAEDGVL SPLALTEGGKSSPSIRPIQGSQSSSPEKEVVEATDSREKTGMVRPGEPLSGEKYSPK
 ELLALLKCVEAEIANYEACLKEEVEKRRKFKIDDQRRTHNYDEFICTFISMLAQEGLANLVEQNISVRR
 RQGVSIGRLHKQRKPD RRKRSRPYKAKRQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_004656

ORF Size: 2187 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_004656.2](#), [NP_004647.1](#)

RefSeq Size: 3599 bp

RefSeq ORF: 2190 bp

Locus ID: 8314

UniProt ID: [Q92560](#)

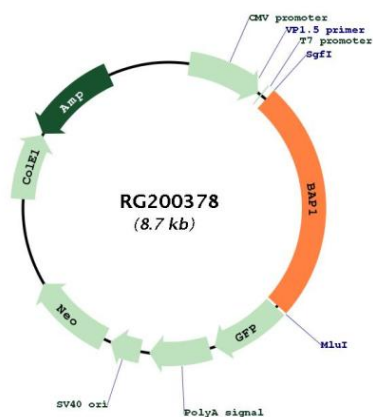
Cytogenetics: 3p21.1

Domains: Peptidase_C12

Protein Families: Druggable Genome, Protease

Gene Summary: This gene belongs to the ubiquitin C-terminal hydrolase subfamily of deubiquitinating enzymes that are involved in the removal of ubiquitin from proteins. The encoded enzyme binds to the breast cancer type 1 susceptibility protein (BRCA1) via the RING finger domain of the latter and acts as a tumor suppressor. In addition, the enzyme may be involved in regulation of transcription, regulation of cell cycle and growth, response to DNA damage and chromatin dynamics. Germline mutations in this gene may be associated with tumor predisposition syndrome (TPDS), which involves increased risk of cancers including malignant mesothelioma, uveal melanoma and cutaneous melanoma. [provided by RefSeq, May 2013]

Product images:



Circular map for RG200378