

Product datasheet for **SC117256**

BAP1 (NM_004656) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAP1 (NM_004656) Human Untagged Clone
Tag:	Tag Free
Symbol:	BAP1
Synonyms:	hucep-6; HUCEP-13; UCHL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_004656, the custom clone sequence may differ by one or more nucleotides

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ATGAATAAGGGCTGGCTGGAGCTGGAGAGCGACCCAGGCCTCTTCACCCTGCTCGTGGAAAGATTTCCGGTG
TCAAGGGGGTGCAAGTGGAGGAGATCTACGACCTTCAGAGCAAATGTCAGGGCCCTGTATATGGATTTAT
CTTCCTGTTCAAATGGATCGAAGAGCGCCGGTCCCGGCGAAAGGTCTCTACCTTGGTGGATGATACGTCC
GTGATTGATGATGATATTGTGAATAACATGTTCTTTGCCACCAGCTGATACCCAACCTTTGTGCAACTC
ATGCCTTGCTGAGCGTGCTCCTGAACTGCAGCAGCGTGGACCTGGGACCCACCCTGAGTCGCATGAAGGA
CTTCACCAAGGGTTTCAGCCCTGAGAGCAAAGGATATGCGATTGGCAATGCCCGGAGTTGGCCAAGGCC
CATAATAGCCATGCCAGGCCCGAGCCACGCCACCTCCCTGAGAAGCAGAATGGCCTTAGTGCAGTGCGBA
CCATGGAGGCGTTCACCTTTGTCAGCTATGTGCCTATCACAGGCCGGCTCTTTGAGCTGGATGGGCTGAA
GGTCTACCCATTGACCATGGGCCCTGGGGGAGGACGAGGAGTGGACAGACAAGGCCCGCGGGTTCATC
ATGGAGCGTATCGGCCTCGCCACTGCAGGGGAGCCCTACCACGACATCCGCTTCAACCTGATGGCAGTGG
TGCCCCAGCCGAGGATCAAGTATGAGGCCAGGCTGCATGTGCTGAAGGTGAACCGTCAGACAGTACTAGA
GGCTCTGCAGCAGCTGATAAGAGTAACACAGCCAGAGCTGATTCAGACCCACAAGTCTCAAGAGTACAG
CTGCCTGAGGAGTCCAAGTCAGCCAGCAACAAGTCCCGCTGGTGTGGAAAGCAAACAGGGCCCCCTGCAG
CCTCTGAGGGCAACCACACAGATGGTGCAGAGGAGGCGGCTGGTTCATGCGCACAAGCCCATCCCACAG
CCCTCCCAACAAACCCAGCTAGTGGTGAAGCCTCCAGGCAGCAGCCTCAATGGGGTTACCCCCAACCCC
ACTCCCATTGTCCAGCGGCTGCCGGCCTTTCTAGACAATCACAATTATGCCAAGTCCCCCATGCAGGAGG
AAGAAGACCTGGCGGCAGGTGTGGGCCGAGCCGAGTTCAGTCCGCCACCCAGCAGTACTCAGATGA
TGAGGATGACTATGAGGATGACGAGGAGGATGACGTGCAGAACCAACTCTGCCCTTAGGTATAAGGGG
AAGGGAACAGGAAGCCAGGGGCAATTGAGCGTCTGCTGATGGGCAACTGTCAGTGTGCAGCCCAACA
CCATCAACGTCTTGGCTGAGAAGCTCAAAGAGTCCCAGAAGGACCTCTCAATTCTCTGCCATCAAGAC
TAGCAGCGGGGCTGGGAGTCCGGCTGTGGCAGTGCACACACTCGCAGCCCTCACCCACCCCAAGCAAT
GAGAGTACAGACACGGCCTCTGAGATCGGCAGTGTCTTCAACTCGCCACTGCGCTCGCCTATCCGCTCAG
CCAACCCGACGCGGCCCTCCAGCCCTGTACCTCCACATCTCCAAGGTGCTTTTTGGAGAGGATGACAG
CCTGCTGCGTGTGACTGCATACGCTACAACCGTGTGTCCGTGATCTGGGTCTGTGCATCAGCACAGGC
CTGCTGCACCTGGCTGAGGATGGGGTGTGAGTCCCCTGGCGTGACAGAGGGTGGGAAGGGTCTCTCGC
CCTCCATCAGACCAATCCAAGGCAGCCAGGGTCCAGCAGCCAGTGGAGAAGGAGGTCGTGGAAGCCAC
GGACAGCAGAGAGAAGACGGGGATGGTGAAGCCTGGCGAGCCCTTGAGTGGGAGAAATACTCACCCAAG
GAGCTGTGGCACTGCTGAAGTGTGGAGGCTGAGATTGCAAACATATGAGGCGTGCCTCAAGGAGGAGG
TAGAGAAGAGGAAGAAGTTCAAGATTGATGACCAGAGAAGGACCCACAACACTACGATGAGTTCATCTGCAC
CTTTATCTCCATGCTGGCTCAGGAAGGCATGCTGGCCAACCTAGTGGAGCAGAACATCTCCGTGCGGCGG
CGCCAAGGGGTGAGCATCGGCCGGCTCCACAAGCAGCGGAAGCCTGACCGGCGGAAACGCTCTCGCCCT
ACAAGGCCAAGCGCCAGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004656 unedited
 CCCCCCTATCTCCCGCCCGTTGCCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTAT
 ATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGACGCG
 GCCGGAATTCGGCACGAGGGGACTGAGGGGCCCGGGGGCGGTGGGGCTCCCGGTGGG
 GGCAGCGGTGGGAGGGAGGGCTGGACATGGCGCTGAGGGGCCCGCCCGCGGAAGATG
 AATAAGGGCTGGCTGGAGCTGGAGAGCGACCCAGGCCCTTACCCTGCTCGTGGGAAGAT
 TTCGGTGTCAAGGGGGTGAAGTGGAGGAGATCTACGACCTTCAGAGCAAATGTCAGGGC
 CCTGTATATGGATTTATCTTCTGTTCAAATGGATCGAAGAGCGCGGTCCCGCGGAAAG
 GTCTCTACCTTGGTGGATGATACGTCCGTGATTGATGATGATATTGTGAATAACATGTTT
 TTTGCCACCAGCTGATACCCAACCTTTGTGCAACTCATGCCTTGCTGAGCGTGTCTCTG
 AACTGCAGCAGCGTGGACCTGGGACCCACCCTGAGTCGCATGAAGGACTTCACCAAGGGT
 TTCAGCCCTGAGGCCGAGCCACGCCACCTCCCTGAGAAGCAGAATGGCCTTAGTGCAGT
 GCGGACCATGGAGCGTCCACTTTGTCAGCTATGTGCCTATCACAGGCCGGCTCTATGA
 GCTGGATGGGCTGCAAGTCTACCCATTGACCATGGGCCCTGGGGGCAGACGAAGAGTG
 CACAGACCAAGCCCTGGCGGTGATCATGAAGCGTATCGGCCTCGCCACTGCAGGGGAGCC
 CTACCACGACATCCGCTTCAACCTGATGGCAGTGTGCCGACCCGAGGACCAAGTATGA
 GCCTAGCTGCATT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004656 unedited
 CAGGGCCAGGAGGCACTGGGGAGGGTACAGGGATGCCACCCGGGATCTGTTACGA
 AACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTCTTATCTGGGCCCTGACATTTGCT
 CTGAAGGTCGTAGATCTCCTCCACTTGCACCACCTCGACCGGATTCTTAGGAGAGCTTG
 ATGCATTCGCTGGTCCCGTTTTTCCAGGGCCTACAGGGTCAAGCTGTGCTCACCCAAA
 GGCAAGTTCACACTTGGCAGCCCCCACTCAACCACTATGTCCACATAAAGGGGCT
 GCTTGGATCACCTTTTTCAAAGCCATCTGGCCGAAGCCATGGGCCTTGGTTGGGGCCGG
 GCTCCAAGGGCACTGTTGGGCCATTACCCGTTGTGAGCAAGTCTACGGAACACCGGGG
 CCCCAAACGGTCGATTTGCTCCTGCTGTCCCCACCATGACTGCCTTGACAGAGCTGCGG
 AAAGTGGTGTGACGAACAGCCTACTGTTGCCATCTTCTATAAGAGACCTTGTCTCTG
 CTCCCCGTGAGAGGGAGACATGGTCACACTGATGTGCTGGACAGAGGCTTTATGATCCT
 AATGGCCCTGGCTCAGACACCTATGTCCCAATTTAGGCCATAGCTCGGGCCGCCAGTT
 CAGGGCAAAGTGCCTAGAACCTTGTACGGAGAGCAGCCTTGATCAGCCTGGGACTAAC
 AAGAAAAACGTTTCAAGGCCTGTGAACTGTTCCAACCTTTGCTACGGCCAAGGGAT
 CCCATCACCGTGGTTACCCATCGCCGTTGGGGACGCCAAT

Restriction Sites:

NotI-NotI

ACCN:

NM_004656

Insert Size:

3520 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](#)

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]