

## Product datasheet for **SC320669**

### **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:** >OriGene sequence for NM\_004656.2  
 GCCCGTTGTCTGTGTGTGGGACTGAGGGGCCCGGGGGCGGTGGGGGCTCCCGTGGGGG  
 CAGCGGTGGGAGGGAGGGCCTGGACATGGCGCTGAGGGGCCCGCCCGCGGAAGATGAA  
 TAAGGGCTGGCTGGAGCTGGAGAGCGACCCAGGCCTCTTACCCTGCTCGTGAAGATTT  
 CGGTGTCAAGGGGGTGAAGTGGAGGAGATCTACGACCTCAGAGCAAATGTCAGGGCCC  
 TGTATATGGATTTATCTTCTGTCAAATGGATCGAAGAGCCGGTCCCGCGAAAGGT  
 CTCTACCTTGGTGGATGATACCTCCGTGATTGATGATGATATTGTAATAACATGTTCTT  
 TGCCACCAGCTGATACCCAACCTTTGTGCAACTCATGCCTTGCTGAGCGTGCTCCTGAA  
 CTGCAGCAGCGTGGACCTGGGACCCACCCTGAGTCGCATGAAGGACTTACCAAGGGTTT  
 TAGCCCTGAGAGCAAAGGATATGCGATTGGCAATGCCCGGAGTTGGCCAAGGCCATAA  
 TAGCCATGCCAGGCCGAGCCACGCCACCTCCCTGAGAAGCAGAATGGCCTTAGTGCAGT  
 GCGGACCATGGAGGCGTCCACTTTGTCAGCTATGTGCCTATCACAGGCCGGCTCTTTGA  
 GCTGGATGGGCTGAAGGTCTACCCATTGACCATGGGCCCTGGGGGAGGACGAGGAGTG  
 GACAGACAAGGCCCGCGGGTTCATCATGGAGCGTATCGGCCTCGCCACTGCAGGGGAGCC  
 CTACCACGACATCCGCTTCAACCTGATGGCAGTGGTGCACCGACCCAGGATCAAGTATGA  
 GGCAGGCTGCATGTGCTGAAGGTGAACCGTCAGACAGTACTAGAGGCTCTGCAGCAGCT  
 GATAAGAGTAACACAGCCAGAGCTGATTAGACCCACAAGTCTCAAGAGTCAACAGCTGCC  
 TGAGGAGTCCAAGTCAGCCAGCAACAAGTCCCCGCTGGTGTGGAAGCAAACAGGGCCCC  
 TGCAGCCTCTGAGGGCAACCACACAGATGGTGCAGAGGAGCGGCTGGTTCATGCGCACA  
 AGCCCCATCCCACAGCCCTCCCAACAAACCAAGTACTGGTGAAGCCTCCAGGCAGCAG  
 CCTCAATGGGGTTCACCCCAACCCACTCCCATTTGCCAGCGGCTGCCGGCCTTTCTAGA  
 CAATCACAAATATGCCAAGTCCCCATGCAGGAGGAAGAAGACCTGGCGGAGGTGTGGG  
 CGCAGCCGAGTTCAGTCCGCCACCCAGCAGTACTCAGATGATGAGGATGACTATGA  
 GGATGACGAGGAGGATGACGTGCAGAACAACCACTCTGCCCTTAGGTATAAGGGGAAGGG  
 AACAGGGAAGCCAGGGGATTGAGCGGTTCTGCTGATGGGCAACTGTCAGTGCTGCAGCC  
 CAACACCATCAACGCTCTGGCTGAGAAGCTCAAAGAGTCCAGAAGGACCTCTCAATTCC  
 TCTGTCCATCAAGACTAGCAGCGGGGCTGGGAGTCCGGCTGTGGCAGTGCACACACTC  
 GCAGCCCTCACCCACCCAGCAATGAGAGTACAGACACGGCCTCTGAGATCGGCAGTGC  
 TTTCAACTCGCCACTGCGCTCGCCTATCCGCTCAGCCAACCCGACGCGGCCCTCCAGCCC  
 TGTACCTCCCACATCTCAAGGTGCTTTTTGGAGAGGATGACAGCCTGCTGCGTGTGA  
 CTGCATACGCTACAACCGTGTGTCGGTATCTGGTCTGTGCATCAGCACAGGCCTGCT  
 GCACCTGGCTGAGGATGGGGTGTGAGTCCCCTGGCGCTGACAGAGGGTGGGAAGGGTTC  
 CTCGCCCTCCATCAGACCAATCCAAGGCAGCCAGGGGTCCAGCAGCCAGTGGAGAAGGA  
 GGTCTGGAAGCCACGGACAGCAGAGAGAAGACGGGGATGGTGAAGCCTGGCGAGCCCTT  
 GAGTGGGGAGAAATACTACCCAAGGAGCTGCTGGCACTGCTGAAGTGTGTGGAGGCTGA  
 GATTGCAAATATGAGGCGTGCCTCAAGGAGGAGGTAGAGAAGAGGAAGAAGTTCAAGAT  
 TGATGACCAGAGAAGGACCCACAACACTACGATGAGTTTCTGACCTTTATCTCCATGCT  
 GGCTCAGGAAGGCATGCTGGCCAACCTAGTGGAGCAGAACATCTCCGTGCGGCGGGCCA  
 AGGGTCAAGCATCGGCCGCTCCACAAGCAGCGGAAGCCTGACCGCGGAAACGCTCTCG  
 CCCCTACAAGGCCAAGCGCCAGTGAAGACTGCTGGCCCTGACTCTGACGCCACTTTGC  
 CGTGTGGCCCTCACAGGGTCTTCCCTGCCCACTTCCCTTTTCCAGTATTACTGAA  
 TAGTCCCAGCTGGAGAGTCCAGGCCCTGGGAATGGGAGGAACCAGGCCACATTCTTCCA  
 TCGTGCCTGAGGCTGACACGGCAGATCAGCCCCATAGTGTCTCAGGAGGCAGCATCTGG  
 AGTTGGGGCACAGCGAGTACTGCAGCTTCTCCACAGCCGGCTGTGGAGCAGCAGGACC  
 TGGCCCTTCTGCCTGGGCAGCAGAATATATATTTTACCTATCAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_004656

**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](mailto: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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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]