

## Product datasheet for **RN205856**

### **Bap1 (NM\_001107292) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bap1 (NM_001107292) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Bap1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN205856 representing NM\_001107292  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAATAAGGCTGGCTGGAGCTGGAGAGTGACCCGGCCTCTTACCCTCTGGTGAAGATTTCCGGTA  
 AGAACCCCTTTACCCCGATCGTCGGGCCCTGGCTGGTGTCAAAGGGGTGCAAGTGGAGGAGATCTATGA  
 CCTTCAGAGTAAATGCCAGGGCCGTGTATATGGATTTATCTTCTGTTCAAATGGATCGAAGAGCGCAGG  
 TCCCGCCGAAGTTTCTACGTTGGTGGATGATACATCTGTGATTGATGATGACATCGTGAATAGCATGT  
 TCTTTGCTCACCAGCTGATTCCTCAACTCTGTGCCACTCACGCCTTGTGAGCGTCTTCTGAAGTGCAG  
 CAATGTGGATTTGGGGCCACGCTGAGTGAATGAAGGATTTACCAAAGGCTTCAGCCCTGAGAGCAAA  
 GGATATGCGATTGGCAATGCCCTGAACTGGCCAAAGGCACATAATAGCCATGCCAGGCCAGAACACGTC  
 ACCTTCTGAGAAACAGAATGGCCTCAGTGCAGTGGGACCATGGAGGCGTTTCACTTTGTCAGCTATGT  
 GCCTATCACAGGACGGCTCTTTGAATTGGATGGGTTGAAAGTCTACCCTATTGATCATGGGCCCTGGGGA  
 GAGGATGAGGAGTGGACAGATAAAGCCGAAGGGTCATCATGGAGCGAATCGGCCTTGCTACTGCAGGGG  
 AGCCCTACCATGACATTCGCTTCAACCTGATGGCAGTGGTGCCTGACCGCAGGGTTAAGTATGAGGCCAG  
 GCTGCATGTGCTGAAGGGGAACCGACAACAGTCTGGAGGCCCTGCAGCAGCTGATTAGAGTAACACAG  
 CCAGAGCTGATTCAGACCCACAAATCTCAAGAGTCAACTGCCTGAGGAGAGCAAGCCAGCCAGCAGCA  
 AGTCTCCCTTTGGGCTAGAGGCGGGCAGAACCCCGGGCCCTCTGAGTGCCTCACACAGATGGTGCAGA  
 GGAGGTGGCTGGTTCGTGCCACAACTACAACCCATAGTCTCCAGCAAACTAAGCTGGTGGTGAAG  
 CCTTCAGGAGCAGCCTCAATGGGGTCCCCCAACCCCTACCCTATTGTCCAGCGGCTGCCAGCCTTTC  
 TAGATAATCACAAATTATGCCAAATCCCTATGCAGGAGGAGGAAGACCTGGCGGCAGGTGTGGGCCGAG  
 CCGAGTTCAGTCCGACCCAGCAGTACTCTGATGATGAGGAGGACTATGAGGATGAGGAGGAGGATGTG  
 CAGAATACCAGTTCGCCATCAGATACAAGCGGAAGGGGACAGGGGAGCCAGGATCGTTGAGCAATTCTT  
 CAGATGGGCAGCTGTGAGTGTGCAGCCCAACACCATCAATGTCTTAACTGAGAAGCTTCAAGAGTCTCA  
 GAAAGACCTTTCAATTCTCTGTCCATCAAGACTAGCAGTGGGGCTGGGAGTCCAGCCGTGGCTGTGCC  
 ACACACTCGCAGCCTTACCCACCCCTAGCAATGAGAGCACGGACACAGCCTCTGAGATTGGCAGTGCTT  
 TCAACTCACCTTGCCTCACCCATCCGCTCAGCCAACCAACACGGCCCTTAGCCCTGTACCTCTCA  
 CATCTCCAAGGTCTCTTTGGAGAAGATGACAGCCTACTTCGTGTTGACTGCATACGCTACAACCGTGT  
 GTCGCTGACCTGGTCTGTCTTAGCAGGGCCCTGCTGCACCTTGTGAGGATGGTGTACTGAGTCCCC  
 TGGCACTCACAGAGGGTGGGAAGGGTCCCTCACCTTCTACCAGATCAAGCCAAGGCAGCCAGGGGTCCAG  
 CAGCCTAGAGGAGAAGGAGGTGGTGAAGTCAAGATAGCAGAGACAAGTCTGGGCTGAACAGGTCCAGT  
 GAGCCCTTGAGTGGAGAGAAGTACTCGCCCAAGGAGCTGTTAGCACTGTTAAAGTGTGTAGAGGCCGAGA  
 TTGCAAACTATGAGGCCCTGTCTCAAGGAGGAGGTGGAGAAAAGGAAGAAGTTCAAGATTGATGACCAGCG  
 AAGGACCCACAACATGATGAGTTCATCTGCACCTTATATCCATGCTGGCTCAGGAAGGAATGCTGGCC  
 AACCTGGTGGAGCAGAACATCTCAGTGGCGCCGCAAGGGTCAAGATTGGTGGCTTCAAGCAGCAGC  
 GGAAGCCTGATAGCGGAAACGCTCTCGCCCTACAAGGCCAAACGCCAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001107292

**Insert Size:** 2223 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001107292.1, NP_001100762.1</u>
<b>RefSeq Size:</b>	3751 bp
<b>RefSeq ORF:</b>	2223 bp
<b>Locus ID:</b>	306257
<b>UniProt ID:</b>	<u>D3ZHS6</u>
<b>Cytogenetics:</b>	16p16
<b>Gene Summary:</b>	<p>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]</p>