

## Product datasheet for **MC229071**

### **Brat1 (NM\_001276287) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Brat1 (NM_001276287) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Brat1
Synonyms:	AA881470; Baa; Baat1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC229071 representing NM\_001276287  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGCATTTTGCCTCTCGGGCTAATTCCCGTAGCGGAGGGATGCGGGGGCGGGATTAGAACCCTA  
 GGCTAACTCGCAGTCGCCGAGAGCGCACCTTTACCCGGATTTGGGAGGAACTGCCTGCCTGATCATGGA  
 CCCAGAATGCTCCAGGCTCCTCCCGCTCTCTGTGCTGTTTTGGCAGATCCCAGACAGCTGGTGGCAGAT  
 GACACCTGCTTGAGAACTGCTGGACTGGTTTAAAACAGTGACAGAGGCAGAGTCTAGCCTCCAACCTAC  
 TACAGGACCATCCCTGCTTAATGGAGCTCCTGTCCATGTGCTGAAGCCACAGGACGTGAGCCCTAGGGT  
 CCTCTCCTTTGCTCTGCGCCTTGTGGGGTCTTCGCAGCCAGGAAGACTGTTTTGAGTACCTTCAGCAG  
 GGAGAGTTGTTGCTGGGGCTCTTTGGGGAGTCAGGTGCCCGGCTGGGCAGCCTGGAGCATCCCAAGT  
 TCGCAGCGGCTGGATCCAGGTCTGTGCTACCTGGCACACCACCTAGCGCCCTGCACTTCTGGCTGA  
 CAGTGGTCTGTGGACACGCTCTTCTCCTTGCAGGGAGACCCAGCCTGTTTCGTCGCTCAGCAGCCAGC  
 CAGCTCCTAGTACATATCCTGGCTCTGTCCATGCAAGGTGGAGCCCAAGGTCCCGCTCCTGAAGCTG  
 CTGCTTGGCCTATGTGTGCCAGAAGATTGTGAACCATGTGGATGAGTCCCTGCATGCCAAAGCCACCCC  
 CCAGGTCACACAGGCCTTGAATGTCTGACTACGACCTTCGGGCGCTGCCATAACCCCTGGACAGGGGTC  
 CTCTGGGAGCGGCTAAGTCCCCCTGTTGCCCGCTGTTTGAGAGAGACCCATTCCAGCCGTGCACGCGC  
 TCATGGACCTTCTTCTAGTGTGGCCAGGTGCGCTGTGTTGAATTTGCAGCCTGTGGCCTGTGGGAGAT  
 GCTGGCCAGACTCTGAGCCGCTGAGCCCATACAAGCTGGGCTCTAGCCCTGGGACCTGAAACTT  
 CAGCACTGTCCCAGGAATTGAGGACCCAGGCTTTGGAGTCTCCTACAGCCACTGGCCTGTATCCTGA  
 AAGTACCCTCAGGCCCTGGACCTCCAGGCTTGTGGATGGGACTGTGGTGTGCTGAGCTGTGGA  
 TATACTTTGGCTTCAAAGTCAGCCTGTGTGGGACTCCTTTGCCAGACTCTGGCTCACCTGGAGGAGCTG  
 CAGATGCTGCCCCAGTGCCCTCACCTGGCCACAGGTGCATCTGCTGCAAGCTGCTTTGACTATATTGC  
 ATCTCTGTGATGGCTCAGCGGACCCAGCTCCAGTGCAGGAGGCCGTCTCTGTGGGACTCTGGTGGCTG  
 GTTTCGTGTCCAGCGAGCAGCCCTTGACTTCTTGGGGACCCTGTCTCAGGGGACAAGCCCTGGAGTTG  
 GTTCTGGAGGTATTTGCTGTTCTCCTGAAGACCCTGGAGAGCCAGAGTCCAGCCCCATGGTCTAAAGA  
 AGGCCTCCAGGCCACACTCAGATGGCTCCAGAACCACACAAGACCCAGCAGCTCTGATCTCAGCTC  
 CGACGCCCTGCTGTTCTCGGAGAGCTGTTCCCATACTACAGAAGCGCCTATGCAGCCCATGTTGGGAG  
 GTGAGGGACTCTGCCCTGGAGTCTGACGCATCTGATCCGACACTGGGAGGGCAGGCTGACTTCAGAG  
 AGGCACTGCGTTCCTCAGAAGTACCCACACTTGCCCTCCAGTTCCTCAAGACCCAGAGAGTTACGTCGG  
 AGCAAGTGCCGTGGGTGCCGCTGGGCAGCTCTCCAGCCAGGGTCTGCAGGCCGCTCCCGTAGCCCCGAG  
 AACTCGCAGGCCAACAGGGCCTACTCATGGACCTTATGCATATCCTGTCCACTGACTCAGAGGGCTTCC  
 CTCGAAGGGCTGTGTTACGGGTCTTACGGACTGGCTGAGGATGGCCATGCTGACGTGGTTCGAGACAC  
 GGAGTGGTTCGTGGCCACTGTTCTCCAGGCAGTGAGCCGGATCTGGACTGGGAGGTCCGAGTGCAGGGT  
 TTGGAGCTGGCAGGGTGTCTCACCAGGCACTGGGCCAGCCAGCCTCCACTGTCCCTATACAGTGG  
 GCCTGCCAGGGCCTCCTCTCCCGCCACACCCGGAATCTTGCAGACTCTGCGCTGCGCCCTCTT  
 TGAGTTTGCCTTTTGTGCCTTGCTTACTGTGACCGACCGGTGGCCAAAAGGCCTGTGACCTGCTCCTC  
 TTCTTGAGGGACAAGACAGTTCCTGCAGTAGCCCTCGGGAGGCAGGGGACAGCCCAACTCAGCCTCAG  
 TGGAGGCTGCCCTGCAGAGGTGGCGGAAGGAGAGCAGGCCAGCCCTAGGGGACCTGGATCCTGAGGC  
 CATGCTAGCCATCCTCAGGGCCTTAGACCTGGAGGGCCTGCAGGGCAGGCTGGCCAAAGAGCAGCACCAT  
 GTGGAGAAGAGCCACAGTCCCTGCTGCAGGACATGCTGGCCACGGTGGGTGTGTTGGAGGAGAACGAAG  
 CTGACTGCTACT**TAA**

**ACGGT**ACGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001276287  
**Insert Size:** 2604 bp

<b>OTI Disclaimer:</b>	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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_001276287.1</a></u> , <u><a href="#">NP_001263216.1</a></u>
<b>RefSeq Size:</b>	3451 bp
<b>RefSeq ORF:</b>	2604 bp
<b>Locus ID:</b>	231841
<b>UniProt ID:</b>	<u><a href="#">Q8C3R1</a></u>
<b>Cytogenetics:</b>	5 G2
<b>Gene Summary:</b>	<p>A similar gene in human encodes a Breast Cancer 1 (BRCA1) interacting protein that is involved in cell cycle checkpoint signaling. The similar human protein is localized to DNA double strand breaks caused by ionizing radiation, and regulates cellular DNA damage response through interactions with Ataxia Telangiectasia Mutated (ATM) and DNA-dependent Protein Kinase. A pseudogene of this gene is located on chromosome 3. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]</p> <p>Transcript Variant: This variant (3) represents the longest transcript and encodes the longer isoform (3).</p>