

Product datasheet for **MC221895**

Brat1 (NM_181066) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Brat1 (NM_181066) 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: >MC221895 representing NM_181066
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCCAGAATGCTCCAGGCTCTCCGGCTCTCTGTGCTGTTTTGGCAGATCCAGACAGCTGGTGG
 CAGATGACACCTGCTTGGAGAACTGCTGGACTGGTTTAAAACAGTGACAGAGGCAGAGTCTAGCCTCCA
 ACTACTACAGGACCATCCCTGCTTAATGGAGCTCCTGTCCATGTGCTGAAGCCACAGGACGTGAGCCCT
 AGGGTCTCTCCTTTGCTCTGCGCCTTGTGGGGTCTTCGACAGCCAGGAAGACTGTTTTGAGTACCTTC
 AGCAGGGAGAGTTGTTGCTGGGGCTCTTTGGGGAGTCAGGTGCCCGGCTGGGCAGCCTGGAGCATCCC
 AAGTGTGCGCAGCGGCTGGATCCAGGTCTGTGCTACCTGGCACACCACCTAGCGCCCTGCACTTCCTG
 GCTGACAGTGGTGTGGACACGCTCTTCTCCTTGACAGGGAGACCCAGCCTGTTGTCGCTCAGCAG
 CCAGCCAGCTCCTAGTACATATCCTGGCTGTCCATGCAAGGTGGAGCCCAAGGTCCCCGCTCCCTGA
 AGCTGCTGCTTGGCCTATGTGTGCCAGAAGATTGTAACCATGTGGATGAGTCCCTGCATGCCAAAGCC
 ACCCCCCAGGTACACAGGCCTTGAATGCTCTGACTACGACCTTCGGGGCGCTGCCATAACCCTGGACAG
 GGGTCTCTGGGAGCGGCTAAGTCCCCCTGTTGCCCGCTGTTTGGAGAGACCCCAATCCAGCCGTGCA
 CGCGCTCATGGACCTTCTTCTAGTGTGGCCAGGTGCGCTGTGTTGAATTTGCAGCCTGTGGCCTGTGG
 GAGATGCTGGCCAGACTCTGAGCCGCTGAGCCCATACAAGCTGGGCCTTAGCCCTGGGGACCTGA
 AACTTCAGCACTGTCCCAGGAATTGAGGACCCAGGCCTTTGGAGTCTCCTACAGCCACTGGCCTGTAT
 CCTGAAAGCTACCACTCAGGCCCTGGACTCCAGGCTTGCTGGATGGGACTGTGGGTAGCTTGTGACT
 GTGGATAACTCTTGGCTTCAAAGTCAGCCTGTGTGGGACTCCTTTGCCAGACTGGCTCACCTGGAGG
 AGCTGCAGATGCTGCCAGTGCCCTCACCTGGCCACAGGTGCATCTGCTGCAAGCTGTTTACTAT
 ATTGCATCTCTGTGATGGCTCAGCGGACCCAGCTCCAGTGCAGGAGCGGCTCTCTGTGGGACTCTGGGT
 GGCTGTGTTGCTGCCAGCAGCAGCCCTGACTTCTTGGGGACCTGTCTCAGGGGACAAGCCCCCTGG
 AGTTGGTCTGGAGGATTTGCTGTTCTCCTGAAGACCCTGGAGAGCCAGAGTCCAGCCCATGGTCTCT
 AAAGAAGGCCTTCCAGGCCACACTCAGATGGCTCCAGAACCACACAAGACCCCAAGCAGCTCTGATCTC
 AGCTCCGACGCCCTGCTGTTTCTCGGAGAGCTGTTCCCATACTACAGAAGCGCTATGCAGCCATGTT
 GGGAGGTGAGGGACTCTGCCCTGGAGTCTGACGCATCTGATCCGACACTGGGGAGGGCAGGCTGACTT
 CAGAGAGGCACTGCGTTCCTCAGAAGTACCCACACTTGCCCTCCAGCTTCTCAAGACCCAGAGAGTTAC
 GTCGAGCAAGTCCGTTGGTGGCCTGGGCGCTGGGCGAGCTCTCCAGCCAGGCTGCAGGCGCTCCGCTAGCC
 CCGAGAATCGCAGGCCAACAGGGCCTACTCATGGACCTTATGCATATCCTGTCCACTGACTCAGAGGG
 CTTCCCTCGAAGGGCTGTGTTACGGGTCTTACGGACTGGCTGAGGGATGGCCATGCTGACGTGGTTCGA
 GACACGGAGTGGTTCGTGGCCACTGTTCTCCAGGCAGTGAGCCGGGATCTGGACTGGGAGGTCCGAGTGC
 AGGGTTTGGAGCTGGCACGGGTGTTCTCACCCAGGCACTGGGCCAGCCAGCCTCCACTGTCCCTATAC
 AGTGGGCTGCCAGGGCCTCCTCTCCCGCCACACCCGGAATCTTGCAGACTCTCTGCCGTCTGCCG
 CTCTTTGAGTTTGCTTTTGTGCCTTGCTTACTGTGACCGACCGGTGGCCAAAAGGCCTGTGACCTGC
 TCCTCTTCTTGGAGGACAAGACAGTCCCTGCAGTAGCCCTCGGGAGGCAGGGGACAGCCCAACTCAGC
 CTCAGTGGAGGCTGCCCTGCAGAGGTGGCGGGAAGGAGAGCAGGCCAGCCCTAGGGGACCTGGATCCT
 GAGGCCATGCTAGCCATCCTCAGGGCCTTAGACCTGGAGGGCCTGCAGGGCAGGCTGGCCAAGAGCAGCG
 ACCATGTGGAGAAGGCCACAGTCCCTGCTGCAGGACATGCTGGCCACGGTGGGTGTGTTGGAGGAGAA
 CGAAGCTGACTGCTACT**AA**

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_181066
Insert Size: 2469 bp

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| 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). |
| 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: | <ol style="list-style-type: none">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_181066.3 , NP_851411.1 |
| RefSeq Size: | 3353 bp |
| RefSeq ORF: | 2469 bp |
| Locus ID: | 231841 |
| UniProt ID: | Q8C3R1 |
| Cytogenetics: | 5 G2 |
| Gene Summary: | <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 (2) differs in the 5' UTR and initiates translation at a downstream start codon, compared to variant 3. The encoded isoform (2) has a shorter N-terminus, compared to isoform 3. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript from the same strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments and orthologous data.</p> |