

Product datasheet for **SC320446**

BAAT1 (BRAT1) (NM_152743) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAAT1 (BRAT1) (NM_152743) Human Untagged Clone
Tag:	Tag Free
Symbol:	BAAT1
Synonyms:	BAAT1; C7orf27; NEDCAS; RMFSL
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_152743.2
 GTTGCGGCGGAGGACGCAACCGAGCGGGCTGCGGCCTACCATGGACCCAGAATGCGCC
 CAGCTGCTCCCGGCTCTCTGTGCTGTTCTGGTAGATCCCGGGCAGCCGGTGGCAGATGAC
 ACCTGTTTGGAGAAGCTCCTGGACTGGTTTAAACGGTCACTGAAGGAGAGTCCAGTGTG
 GTGCTGCTGCAGGAGCACCCCTGCCTGGTGGAGCTGCTGTCCATGTGCTGAAAGTCCAG
 GACCTGAGTTCTGGGGTCTCTCCTTCTCACTGCGCCTGGCAGGAACCTTCGAGCCCA
 GAAAACCTGCTTCCAGTATCTTCAGCAGGGGGAGTTACTACCAGGGCTCTTTGGGGAGCCA
 GGACCCCTCGGGCGAGCAACCTGGGCCGTCCCCACCGTGCAGCGGCTGGATCCAGGGC
 CTGCGCTCCCTGGCACAGCACCCAGCGCCTGCGCTTCTGGCCGACCATGGTGCGGTC
 GACACCATCTTCTCCCTGCAGGGAGACTCCAGCCTGTTTGTGGCCTCGGCGGCCAGTCAG
 CTCCTGGTGCACGTCTGGCTTTGTCCATGCGAGGTGGAGCCGAGGGGCAGCCCTGCCTG
 CCGGGGGTACTGGCCCGGTGTGCCAGAAGATCATGGATCACGTTGAAGAGTCTTG
 TGCTCCGCGGCCACCCCAAGGTCACTCAGGCCCTGACGTCCTGACCACGACCTTCGGG
 CGCTGCCAGAGCCCTGGACGGAAGCCCTGTGGGTGCGGCTGAGTCCCCGCTGGCCTGT
 CTGCTGGAGAGAGACCCATCCCCGCCGACACTCGTTCTGTGGACCTGCTTCTGTGTG
 GCTCGTTCTCCCGTGTTCAGTTCTTCCGACGGCAGCCTGTGGGAGACAGTGGCGGGGCT
 CTGAGCTGCCTGGTCCACCCACATGGGACCCCTGGCTTTGGGGATCCTGAAGCTCGAG
 CACTGTCCACAGGCACTGAGGACCCAGGCCTTCCAGGTCTTCTCCAGCCCTGGCCTGT
 GTCCTGAAGGCCACGGTTCAGGCCCCCGGACCCCAAGGCTTGGTGGACGGGACGGCAGAC
 GATGCCACGACGGTGGACACACTCTGGCCTCCAAGTCGCTCCTGCGCCGGCTCCTGTGC
 CGCACCTGGCTACCTGGAGGAGCTGCAGCCGTGCCAGCGCCCTTACCCTGGCCC
 CAGGCTCTCTACTGGGGCTACAGTACTGTCTGCGGCTCTGTGACGGCTCGGCTGCC
 CCTGCCCTCCAGTGTGGGGGCCACCTCTGTGGGACCCTGGCGGGTGCCTCCGGTCCAG
 CGAGACCCCTCGACTTCTGGGGACGCTGTACAGGGGACAGGCCCCAGGAGCTGGTG
 ACGCAGGCGCTTCTGTCTCCTGGAGTGCCTCGAGAGCCCGGCTCCAGCCCCACGGTT
 CTGAAGAAGCCCTCCAGGCCACGCTCAGGTGGCTCCTGAGCTACCCAAAGACCCCGGC
 TGCTCTGATCTCGGCCCTCATCCCGAGTTCCTCAGAGAGCTGTTCCCTGTGCTGCAG
 AAACGCTGTGCCACCCCTGCTGGGAGGTGAGGGACTCCGCCCTCGAGTTCCTGACCCAG
 CTGAGCAGGCACTGGGGAGGACAGGCTGACTTCAGATGCGCACTTTGGCTTCAGAGGTG
 CCTCAGCTGGCCCTGCAGCTCCTCCAGGACCTGAGAGTTATGTCGAGCGAGTGCAGTG
 ACCGCCATGGGGCAGCTGTCCAGCCAGGGCCTGCACGCCCCACCAGCCCTGAGCATGCA
 GAGGCCCGGCAGAGCCTGTTCTGGAGCTCCTGCACATCCTCTCCGTAGACTCGGAGGGC
 TTCCACGGCGGGCGGTATGCAAGTCTCACTGAGTGGCTGCGGGACGGCCACGCCGAC
 GCGGCCAGGACACGGAGCAGTTCGTGGCCACTGTGCTGCAGGGCGGAGCCGAGACCTG
 GACTGGGAGTCCGCGCCAGGGCCTGGAGCTGGCCCTCGTGTTCCTGGGCCAGACTTTG
 GGGCCGCCGCTACCCACTGCCCTATGCCGTGGCCCTACCCGAGGTGGCCCCAGCCAG
 CCACTACCGAGGCACTGAGGGCTCTCTGCCACGTGGGGCTCTTTGACTTCGCTTTTGT
 GCCTTGTGTTGACTGCGACCGCCCTGTGGCGAGAAGTCTTGTGACCTCCTTCTCTCCTG
 AGGGACAAGATTGCTTCTACAGCAGCCTGCGGGAGGCCAGGGGCAGCCCAACTGCC
 TCCGCAGAGGCCACCCTGCCGAGGTGGCGGGCGGTGAGCAGGCCAGCCCCAGGGGAC
 CAGGAGCCTGAGGCTGTGCTGGCCATGCTCAGGTCCCTAGACCTGGAGGGCTGCGGAGC
 ACGCTGGCCGAGAGCAGCGACCGTGGAAAAGAGTCCCCAGTCCCTCCTGCAGGACATG
 CTGGCCACGGGAGGCTTCTGCAGGGGACGAGGCCGACTGCTACTGAGCAGAACCAGAG
 TCTGCCACTGGGGCTCAGGACCAAGGGAGGCAGCACCATGTCCTTCTGTGGGACTGCC
 AGCCCCAGGGCTCCAGCCAGCCCGGTGGATCCTCTGGGAAGCCAGGACCAGGAGAGAA
 GCAAGGTCAAGAAATCCACAGTTTGATGTATTAAGAAATGACTTATTTCTACTCAAAA
 AAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_152743

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).
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:	<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_152743.2 , NP_689956.1
RefSeq Size:	2713 bp
RefSeq ORF:	2466 bp
Locus ID:	221927
UniProt ID:	Q6PJG6
Cytogenetics:	7p22.3
Gene Summary:	<p>The protein encoded by this ubiquitously expressed gene interacts with the tumor suppressing BRCA1 (breast cancer 1) protein and and the ATM (ataxia telangiectasia mutated) protein. ATM is thought to be a master controller of cell cycle checkpoint signalling pathways that are required for cellular responses to DNA damage such as double-strand breaks that are induced by ionizing radiation and complexes with BRCA1 in the multi-protein complex BASC (BRAC1-associated genome surveillance complex). The protein encoded by this gene is thought to play a role in the DNA damage pathway regulated by BRCA1 and ATM. [provided by RefSeq, Mar 2012]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice junction in the 3' end of the coding sequence compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p>