

Product datasheet for **SC126644**

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:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC126644 sequence for NM_152743 edited (data generated by NextGen Sequencing)

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ATGGACCCAGAATGCGCCCAGCTGCTCCCGGCTCTCTGTGCTGTTCTGGTAGATCCCAGG
CAGCCGGTGGCAGATGACACCTGTTTGGAGAAGCTCCTGGACTGGTTTAAAACGGTCACT
GAAGGAGAGTCCAGTGTCTGTGCTGCTGCAGGAGCACCCCTGCCTGGTGGAGCTGCTGTCC
CATGTGCTGAAAGTCCAGGACCTGAGTTCTGGGGTCTCTCCTTCTCACTGCGCCTGGCA
GGAACCTTCGCAGCCCAGGAAAACCTGCTTCTAGTATCTTCAGCAGGGGGAGTTACTACCA
GGGCTCTTTGGGAGCCAGGACCCCTCGGCCGAGCAACCTGGGCCGTCCCACCGTGC GC
AGCGGCTGGATCCAGGGCTGCGCTCCCTGGCACAGCACCCAGCGCCCTGCGCTTCTG
GCCGACCATGGTGC GGTCGACACCATCTTCTCCCTGCAGGGAGACTCCAGCCTGTTTGTG
GCCTCGGCGGCCAGTCAGCTCCTGGTGCACGTCCTGGCTTTGTCCATGCGAGGTGGAGCC
GAGGGGCAGCCCTGCCTGCCGGGGGTGACTGGCCCGCTGTGCCAGAAGATCATGGAT
CACGTTGAAGAGTCTTGTGCTCCGCGGCCACCCCAAGTCACTCAGGCCCTGAACGTC
CTGACCACGACCTTCGGGCGCTGCCAGAGCCCCTGGACAGAAGCCCTGTGGGTGCGGCTG
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GAGACAGTGGCGCGGGCTCTGAGCTGCCTGGTCCCACCCACATGGGACCCCTGGCTTTG
GGGATCCTGAAGCTCGAGCACTGTCCACAGGCACTGAGGACCCAGGCCTTCCAGTCCCT
CTCCAGCCCTGGCCTGTGCTCTGAAGGCCACGGTTCAGGCCCCCGGACCCCCAGGCTTG
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TGCGCCGGCTCCTGTGCCGACCCCTGGCTCACCTGGAGGAGTGCAGCCGCTGCCCCAG
CGCCCTTACCCGTGGCCCCAGGCGTCTCTACTGGGGCTACAGTACTGTCTGCGGCTC
TGTGACGGCTCGGCTGCCCTGCCCTCAGTGTGGGGGGCCACCTCTGTGGGACCCCTGC
GGCTGCGTCCGGTCCAGCGAGCAGCCCTCGACTTCTGGGAGCCTGTACAGGGGACA
GGCCCCAGGAGCTGGTACGCAGGCGCTTGTGTCTCCTGGAGTGCCTCGAGAGCCCC
GGCTCCAGCCCCACGGTCTGAAGAAGGCCTTCCAGGCCACGCTCAGGTGGCTCCTGAGC
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CTGTTCCCTGTGCTGCAGAAACGCTGTGCCACCCTGCTGGGAGGTGAGGGACTCCGCC
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TTTGACTTCGCCTTTTGTGCCTTGTGTTGACTGCGACCCGCTGTGGCGCAGAAGTCTTGT
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TCCCTCTGCAGGACATGCTGGCCACGGGAGGCTTCTGCAGGGGACGAGGCCGACTGC
TACTGA

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Clone variation with respect to NM_152743.3
 271 c=>t;699 g=>a;1931 g=>n;1932 a=>n;1933 g=>n;2388 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152743 unedited
 GCACGAGGGGCTGCGGCCTCACCATGGACCCAGAATGCGCCAGCTGCTCCCGGCTCTC
 TGTGCTGTTCTGGTAGATCCCAGGCAGCCGGTGGCAGATGACACCTGTTTGGAGAAGCTC
 CTGGACTGGTTTAAAACGGTCACTGAAGGAGAGTCCAGTGTCTGTGCTGCTGCAGGAGCAC
 CCCTGCCTGGTGGAGCTGCTGTCCCATGTGCTGAAAGTCCAGGACCTGAGTTCTGGGGTC
 CTCTCCTTCTCACTGCGCCTGGCAGGAACCTTCGCAGCCAGGAAAACCTGCTTCTAGTAT
 CTTCAGCAGGGGAGTTACTACCAGGGCTCTTTGGGGAGCCAGGACCCCTCGGCCGAGCA
 ACCTGGGCGCTCCCAACCGTGCAGCGGCTGGATCCAGGGCCTGCGCTCCCTGGCACAG
 CACCCAGCGCCCTGCGCTTCTGGCCGACCATGGTGCAGTGCACACCATCTTCTCCCTG
 CAGGGAGACTCCAGCCTGTTTGTGGCCTCGGCCGAGTCCAGTCTGTTGTCACGTCCTG
 GCTTTGTCCATGCGAGGTGGAGCCGAGGGGAGCCCTGCCTGCCGNGGGTACTGGCC
 GCGTGTGCCAGAAGATCATGGATCACGTTGAAGAGTCTTGTGCTCCGCGGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_152743 unedited
 ATAACTGGGTTGTGCCATCGANGTTTCNGTTTTAATTTTTTTTTTTTTTTTGGAGTAGAAA
 TTTTTCAATTTCTTAATACATCAAACGTGGGATTTCTTGACCTTGCTTCTCCTGGTC
 CTGGCTTCCCAAGAGATCCACCGGGCTGGGCTGGAGCCCTGGGGCTGGCAGTGTCCAC
 AGAAGGACATGGTGTGCTCCCTGGTCTGATCCCCAGTGGCAGAGTCTGGTTCTGCT
 CAGTAGCAGTCCGGCTCGTCCCTGCAGGAAGCCTCCCGTGGCCAGCATGCTCTGCAGG
 AGGGACTGGGACTCTTCTCCACGTGGTGCCTGCTCTCGGCCAGCGTCTCCGAGGCC
 TCCAGGTCTAGGGACCTGAGCATGGCCAGCACAGCCTCAGGCTCCTGGTCCCTGGGGC
 TGGGCCTGCTCACCCGCCGACCTCGGCAGGGTGGCCTCTGCGGAGGCAGTGTGGGG
 CTGCCCTGGCCTCCCGCAGGCTGCTGTAGGAAGCAATCTTGTCCCTCANGAAGAGAAGG
 AGGTACACAAGACTTCTGCGCCACAGGGCGTCCGAGTCAAACAAGGCACAAAAGGCGAAG
 TCAAAGAGCCCCACGTGGCAGAGAGCCCTCAGTGCCTCGGTGAGTGGTGGGCTGGGGCC
 ACCTCGGGTAGGGCCACGGCATAATGGGCAGTGGGTACGCGCGGCCCCAAAGTCTGGCC
 CAGGACACGATGGCCAGCTTTCAGGCCCTGGGCGCGGACCTNCCAGTCCAGGTCTGGTC
 GCCGCTGCAGCCAGTGGCCACGAACCTGCTCCGTGTCTTGGCCGCGTGGGCTGGCCGT
 CCCGACCACTCAGTGAAGACCTGCATGACCCGCCNCCGTGGGAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_152743

Insert Size:

2850 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).

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_152743.2](#), [NP_689956.1](#)

RefSeq Size: 2713 bp

RefSeq ORF: 2466 bp

Locus ID: 221927

UniProt ID: [Q6PJG6](#)

Cytogenetics: 7p22.3

Gene Summary: 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]

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.