

Product datasheet for **RC204822**

BAAT1 (BRAT1) (NM_152743) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAAT1 (BRAT1) (NM_152743) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BAAT1
Synonyms:	BAAT1; C7orf27; NEDCAS; RMFSL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC204822 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCCAGAATGCGCCAGCTGCTCCCGGCTCTCTGTGCTGTTCTGGTAGATCCCGGGCAGCCGGTGG
 CAGATGACACCTGTTGGAGAAGCTCCTGGACTGGTTAAAACGGTCACTGAAGGAGAGTCCAGTGTCTG
 GCTGCTGCAGGAGCACCCCTGCCTGGTGGAGCTGCTGTCCATGTGCTGAAAGTCCAGGACCTGAGTTCT
 GGGGTCTCTCCTTCTCACTGCGCCTGGCAGGAACCTTCGAGCCAGGAAAAGTCTTCCAGTATCTTC
 AGCAGGGGGAGTTACTACCAGGGCTCTTTGGGAGCCAGGACCCCTCGGCCGAGCAACCTGGGCCGTCCC
 CACCGTGCAGCGGCTGGATCCAGGGCTGCGCTCCCTGGCACAGCACCCAGCGCCCTGCGCTTCTCTG
 GCCACCATGGTGCAGTGCACCATCTTCCCTGCAGGGAGACTCCAGCTGTTTGTGGCCTCGGCCG
 CCAGTCACTCCTGGTGCAGTCTGGCTTTGTCCATGCGAGGTGGAGCCGAGGGGACGCCCTGCCTGCC
 GGGGGTACTGGCCCGCTGTGCCAGAAGATCATGGATCACGTTGAAGAGTCTTGTGCTCCGCGGCC
 ACCCCCAAGTCACTCAGGCCCTGAACGCTCCTGACCACGACCTTCGGGGCCTGCCAGAGCCCTGGACGG
 AAGCCCTGTGGGTGCGGCTGAGTCCCGCGTGGCTGTCTGCTGGAGAGAGACCCATCCCGCCGACACA
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 GTCCGAGCGAGTGCAGTACCGCATGGGGCAGCTGTCCAGCCAGGGCTGCACGCCCCACAGCCCTG
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 ACGGAGCAGTTCTGTGGCACTGTGCTGCAGGCGGCGAGCCGAGACCTGGACTGGGAGTCCGCGCCAGG
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 GGCCCTACCCGAGGTGGCCCCAGCCAGCCACTCACCGAGGCACTGAGGGCTCTCTGCCACGTGGGGCTC
 TTTGACTTCGCCTTTTGTGCCTTGTGTTGACTGCGACCCGCTGTGGCGCAGAAGTCTTGTGACCTCCTTC
 TCTTCTGAGGGACAAGATTGCTTCTACAGCAGCCTGCGGGAGGCCAGGGGACGCCCAACTGCCTC
 CGCAGAGGCCACCCTGCCGAGGTGGCGGGGGTGGAGAGGCCAGCCCAAGGGGACAGGAGCCTGAG
 GCTGTGCTGGCCATGCTCAGTCCCTAGACCTGGAGGGCCTGCGGAGCACGCTGGCCGAGAGCAGCGACC
 ACGTGGAAAAGAGTCCCAAGTCCCTCCTGCAGGACATGCTGGCCACGGGAGGCTTCTGCAGGGGACGA
 GGCCGACTGCTAC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204822 protein sequence
Red=Cloning site Green=Tags(s)

MDPECAQLLPALCAVLVDPGQPVADDTCLEKLLDWFKTVTEGESSVLLQEHPCLVLLSHVLKVQDLSS
GVL SFSLR LAGTFAAQENCFQYLQQGELLPLFGEPGLGRATWAVPTVRSGWIQGLRSLAQHPSALRFL
ADHGAVDTIFSLQGDSSLFVASAASQLLVHVLALSMRGGAEQPCPLGGDWPACAQKIMDHVEESLCSAA
TPKVTQALNVLTTTFGRQCSPWTEALWVRLSPRVACLLERDPIPAHSFVDLLLCVARSPVFSSSDGLSW
ETVARALSCLGPTHMGPLALGILKLEHCPQALRTQAFQVLLQPLACVLKATVQAPGPPGLLDGTADDATT
VDTLLASKSSCAGLLCRTLAHLEELQPLPQRPSWPQASLLGATVTVLRLCDGSAAPASSVGGHLCGTLA
GCVRVQRAALDFLGTLSQGTGPQELVTQALAVLLECLESPGSSPTVLKKAFAQATLRWLLSSPKTPGCSDL
GPLIPQFLRELPVQKRLCHPCWEVRDSALEFLTQLSRHWGGQADFRCALLASEVPQALQLLQDPESY
VRASAVTAMGQLSSQGLHAPTSPEHAEARQSLFLELLHILSVDSEGFPRRAVMQVFTEWLRDGHADAAQD
TEQFVATVLQAASRDLDWEVRAQGLELALVFLGQTLGPPRTHCPYAVALPEVAPAQPLTEALRALCHVGL
FDFAFCALFDCDRPVAQKSCDLLLFLRDKIASYSSLREARGSPNTASAEATLPRWRAGEQAQPPGDQPEPE
AVLAMLRLDLEGLRSTLAESSDHVEKSPQSLLDMLATGGFLQGDEADCY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6690_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_152743

ORF Size: 2463 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: 3013 bp

RefSeq ORF: 2466 bp

Locus ID: 221927

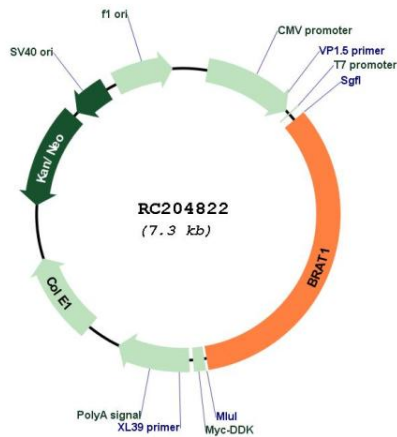
UniProt ID: [Q6PIG6](#)

Cytogenetics: 7p22.3

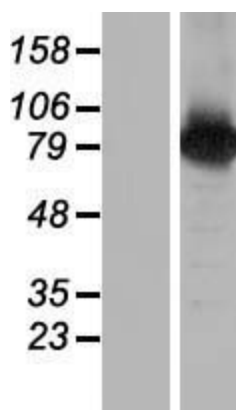
MW: 88 kDa

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]

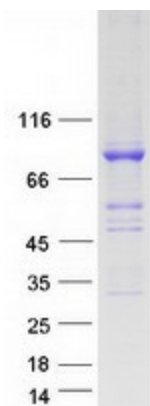
Product images:



Circular map for RC204822



Western blot validation of overexpression lysate (Cat# [LY407296]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204822 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BRAT1 protein (Cat# [TP304822]). The protein was produced from HEK293T cells transfected with BRAT1 cDNA clone (Cat# RC204822) using MegaTran 2.0 (Cat# [TT210002]).