

## BCAS2 cDNA

Catalog Number: ATGD0062

### PRODUCT INFORMATION

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**Catalog number**

ATGD0062

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_005863.1

**Alternative Names**

DAM1, Snt309, SPF27

**mRNA Refseq**

NM\_005872.2

**OMIM**

605783

**Chromosome location**

1q13.2

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

678bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

**BCAS2 cDNA**

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BCAS2, also known as pre-mRNA-splicing factor SPF27, is a ubiquitously expressed nuclear protein that was originally identified as being overexpressed in various breast cancer cell lines. It is now known to be a component of the spliceosome, participating in the removal of introns from mRNA precursors. BCAS2 specifically interacts (in a ligand-independent manner) with TRbeta (thyroid hormone receptor beta), ERalpha (estrogen receptor alpha), ERbeta, PR (progesterone receptor) and PPARgamma (peroxisome proliferator-activated receptor gamma). This protein functions as an ER co-activator and is capable of enhancing ER-mediated transcription. This suggests that BCAS2 is involved in the development of breast cancer.

**DATA**

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**Sequence nucleotides**

```
ATGGCGGGCA CAGGTTTGGT GGCTGGAGAG GTTGTGGTGG ATGCGCTGCC GTATTTTGAT CAAGGTTATG
AAGCCCCTGG TGTGCGGGAA GCGGCTGCAG CGCTGGTGGG GGAGGAAACT CGCAGATACC GACCTACTAA
GAACTACCTG AGCTACCTGA CAGCCCCGGA TTATTCTGCC TTTGAAACTG ACATAATGAG AAATGAATTT
GAAAGACTGG CTGCTCGACA ACCAATTGAA TTGCTCAGTA TGAAACGATA TGAGCTTCCA GCCCCCTCCT
CTGGTCAAAA AAATGACATT ACTGCATGGC AAGAATGTGT AAACAATTCT ATGGCCCAGT TAGAGCATCA
AGCAGTTAGA ATTGAGAATC TGGAATAAT GTCACAGCAT GGATGTAATG CCTGGAAAGT ATACAATGAA
AATCTAGTTC ATATGATTGA ACACGCACAG AAGGAACTTC AGAAGTTAAG AAAACATATT CAAGATTTAA
ACTGGCAGAG AAAGAACATG CAACTCACAG CTGGATCTAA ATTGAGAGAA ATGGAGTCAA ATGGGGTATC
CCTGGTCAGT AAGAATTATG AGATTGAACG GACTATTGTT CAGCTAGAAA ATGAAATCTA TCAAATTAAG
CAGCAACATG GAGAGGCAAA CAAAGAAAAC ATCCGGCAAG ACTTCTGA
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**Transaction Sequence**

```
MAGTGLVAGE VVVDALPYFD QGYEAPGVRE AAAALVEEET RRYRPTKNYL SYLTAPDYSY FETDIMRNEF ERLAARQPIE
LLSMKRYELP APSSGQKNDI TAWQECVNNS MAQLEHQAVR IENLELMSQH GCNAWKVYNE NLVHMIEHAQ KELQKLRKHI
QDLNWQRKNM QLTAGSKLRE MESNWVSLVS KNYEIERTIV QLENEYQIK QQHGEANKEN IRQDF
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