

## Product datasheet for **RC217141**

### **BCAS3 (NM\_001099432) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BCAS3 (NM_001099432) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BCAS3
Synonyms:	GAOB1; MAAB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC217141 representing NM\_001099432  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGAATGAAGCTATGGCTACAGATTCCCAAGAAGACCCAGTCGTTGACTGGTGGAGTTGTGGTTCGCC  
 CCCAGGCTGTACAGAGCAGTCCTACATGGAAAGTGTGTGACTTTTCTGCAGGATGTTGTGCCACAGGC  
 TTACAGTGGAAACCTCTAACAGAAAGAAAAGGAGAAAATAGTCTGGGTACAGATTTGAAAAATGCAGATTTA  
 AATGATACATCAAGAAATCTGGAATTTTCAAGAAATACATAGTACTGGGAGTGAACCCGCTTTGTTGATTA  
 TGATTGGCTACAGTGTGAATGCAGGTCTGGAGCATCCCTATCAGTGGCGAAGCACAAGAGCTCTTCTC  
 TGTTTCGACATGGCCCAATTCGAGCGGCTAGAATCTTGCCTGCTCCACAGTTTGGTGTCAAAAATGTGAT  
 AACTTTGTGAAAAAGACCCCTCCTTGGTGTGTTGTAAGAGCATTGGATCTTCTGCCACAAGCCACCGT  
 ACTGTTGTGTGGATCTGTATTCCTTCTGACTGGGAGATGGTCAAGTCCATTCAATTTAAGACACCTAT  
 TTATGATCTCCATTGCAATAAACGGATCCTTGTCTAGTCTTGCAGGAGAAAATTGCTGCCTTTGATAGC  
 TGTAATTTACGAAGAAATCTTTGTTACAAGCTGCTATCCATGTCCAGGGCCAAACATGAATCCTATTG  
 CTCTTGGGAGCCGCTGGCTTGTATGCAGAAAACAAGTTGATTTCGATGTCATCAGTCCCGTGGTGGAGC  
 CTGTGGAGACAACATTCAGTCTTATACTGCCACAGTCATTAGTGTGCTAAAACATTGAAAAGTGGCCTG  
 ACAATGGTAGGAAAAGTGGTGTGACTCAGCTGACAGGCACACTGCCTTCAGGTGTGACAGAAGATGATGTTG  
 CCATCCACAGTAATTCACGGCGGAGTCTTTGGTCCCAGGCATCATCACAGTTATTGACACCGAAACCGT  
 TGGAGAGGGCCAGGTGCTTGTGAGTGAGGATTCTGACAGTGTGGCATTGTGGCCCACTCCCTGCCCAT  
 GAGAAGCCAGTGTGCTGCATGGCTTTTAAACAAGTGAATGCTTCTAGTCACAACAGACACCCCTTGGCC  
 ATGACTTTCATGCTTCCAAATCTGACTCATCCTTGGTCTCATCAAAATGTGCTGTCCACCATTGTA  
 TACTCTTACAGGGGAGAACTGAAGCCAAAGTACAGGACATCTGCTTCAGCCATGACTGTCTGGGTT  
 GTGGTCAGTACTCTCGGGGTACTTCCCAGTTTTCCCACATCAACCCTTATGGTGGCCAGCCTTGTGTT  
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 TGAACAAGAACTGACGTCTAAGCAAGGAGGTGCTGTAGCCCTGTTCCAGGTCTATCAAGCAGCCCTTCT  
 GGGTACCCTTGCATGGGAACTGAACAGCCAAGACTCCTATAACAATTTTACCAACAACAACCCTGGCA  
 ACCCTCGGCTCTCTCTTCCCAGCTTGTGGTGTGATGCCTTGTGCACAAATCAAGCAGCCAATGAC  
 ATTGGGGACCATACCAAACGAACCGGGCCTTATCTCTTGGAGCGGGTGTGTTTTCCATAAAAGCCCCA  
 TGCAAAGTTAAACCTCCTCCACAATTTACCCAGCAAATCGATGGGCGGAGAATTTTGTGTGGCTGCTA  
 TCTTCGGAACATCCAGGTGATGTTTGAATAATGCAGGTCTGAAAAGGAAAAAGATCAGTCCAAACA  
 AGTTGTAGTTGAGTCCCTGTACATTATCAGTTGCTATGGCACCTTGTGGAACACATGATGGAGCCGCGA  
 CCCCTCAGCACTGCACCAAGATTAGTGACGACACACCACTGGAATGATGACATCGCCTCGAGCCAGCT  
 GGACTCTGGTTAGAACCCTCAATGGAATGAATTGCAGCCACCGTTTAAATGCAAACCACCCTCTGCTCCT  
 CGCTGCAGATGCAGTACAGTATTATCAGTTCCTGCTTGTGCGCTGGTTCCTCCCTGGAAGTCTGGGCC  
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 CCCAGTTGAAATGTAAACACACTGGACCCCATAGACGTCTGTGGATGGTCCACAGTCCAGTTCAA  
 AACCATCCATCCCTCAGGCCAAACACAGTTATCTCATCCAGTTCATCTGTGTTGCAGTCTCATGGTCCG  
 AGTGACACGCCACAGCCTCTTTGGATTTTGTATACAGATGATCTTGTATCTCAACAGTCTCAGGATCCAGC  
 CAGTCCGCTCTGACCCCGTCCAGCATGCCAGGGTATCCCGTCCAGTCTCTGATCGAAGGGGAGTTTCCAC  
 AGTGATTGATGCTGCCTCAGGTACCTTTGACAGGAGCGTACCCTGCTGGAGGTGTGCGGGAGCTGGCCT  
 GAGGGCTTCGGGCTGCGGCACATGTCTCCATGGAGCACACGGAGGAGGGCTCCGGGAGCGACTTGCCG  
 ACGCCATGGCCGAGTACCTAGCCGGGACGTCTGTTGGATCCGGAACAGAATTCAGCGAGAGGGAAGCAT  
 CGAGACTCTGAGTAACAGCTCAGGCTCCACCAGCGGCAGCATACCAAGAACTTTGATGGCTACCGATCT  
 CCGCTGCCACCAATGAGAGCCAGCCCTCAGCCTCTTCCGACTGGCTTCCCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGAT AAGGTTTAA

**Protein Sequence:** >RC217141 representing NM\_001099432  
 Red=Cloning site Green=Tags(s)

MNEAMATDSPRRPSRCTGGVVVRPQAVTEQSYMESVVTFLQDVVPQAYSGTPLTEEKEKIVVWRFENADL  
 NDTSRNLEFHEIHSTGSEPELLIMIGYSDGMQVWSIPIISGEAQELFSVRHGPIRAARILPAPQFGAQKCD  
 NFAEKRPLLGVCKSIGSSGTPPYCCVDLYSLRTGEMVKSIFKFTPIYDLHCNKRILVVVLQEKIAAFDS  
 CTFTKKFFVTSCYPCPGPNMNPIALGSRWLAYENKLRCHQSRGGACGDNIQSYTATVISAAKTLKSGL  
 TMVGKVVVTQLTGLPSGVTEDDVAIHSNSRRSPLVPGIITVIDTETVGEQQLVSESDSDSDGIVAHFPAH  
 EKPVCCMAFNSTGMLLVTTDTLGHDFHVFIILTHPWSSSQCAVHHLTYLHRGETEAKVQDICFSDHCRWV  
 VVSTLRGTSHVFPINPYGGQPCVTRTHMSPRVVRNRSRFQKSGALEEIEQELTSKQGGRCSPVPLSSSPS  
 GSPLHGKLNQDSYNNFTNNPNPNRPLSPLPSLMVVMPLAQIKQPMTLGTITKRTGPYLFGAGCFSIKAP  
 CKVKPPPQISPSKSMGGEFCVAAIFGTSRSWFANNAGLKREKDQSKQVVVESLYIISCYGTLVEHMMEP  
 PLSTAPKISDDTPEMMTSPRASWTLVRTPQWNELOPPFNANHPLLLLAADAVQYYQFLLAGLVPPGSPGP  
 ITRHGSYDSLADSHSGQEDEEWLSQVEIVTHTGPHRRLLWMGPQFQFKTIHPSGQTTVISSSSSVLQSHGP  
 SDTPQPLLDFTDDLNLRIQPVRSDPVSMGSSRPVSDRRGVSTVIDAASGTFDRSVTLLEVCGSWP  
 EGFGLRHSSMEHTEEGLRERLADAMAESPVRDVGSGTELQREGSIETLSNSSGSTSGSIPRNFQGYRS  
 PLPTNESQPLSLFPTGFP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2411\\_b11.zip](https://cdn.origene.com/chromatograms/ja2411_b11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



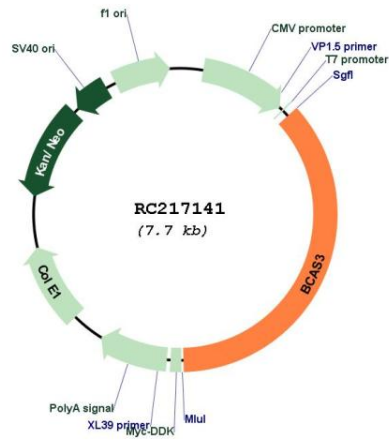
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001099432

**ORF Size:** 2784 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001099432.1</a> , <a href="#">NP_001092902.1</a>
<b>RefSeq Size:</b>	3626 bp
<b>RefSeq ORF:</b>	2787 bp
<b>Locus ID:</b>	54828
<b>UniProt ID:</b>	<a href="#">Q9H6U6</a>
<b>Cytogenetics:</b>	17q23.2
<b>MW:</b>	101.7 kDa
<b>Gene Summary:</b>	Plays a role in angiogenesis. Participates in the regulation of cell polarity and directional endothelial cell migration by mediating both the activation and recruitment of CDC42 and the reorganization of the actin cytoskeleton at the cell leading edge. Promotes filipodia formation (By similarity). Functions synergistically with PELP1 as a transcriptional coactivator of estrogen receptor-responsive genes. Stimulates histone acetyltransferase activity. Binds to chromatin. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC217141