

Product datasheet for **RC230562**

BCAR1 (NM_001170717) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCAR1 (NM_001170717) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BCAR1
Synonyms:	CAS; CAS1; CASS1; CRKAS; P130Cas
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230562 representing NM_001170717
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACCACCTGAACGTGCTGGCCAAAGCGCTCTATGACAATGTGGCCGAGTCCCCGGATGAGCTCTCCT
 TCCGCAAGGGTGACATCATGACGGTCTGGAGCAGGACACGCAGGGCCTGGACGGCTGGTGGCTCTGCTC
 GCTGCATGGGCGCCAGGGCATCGTGCTGGGAACCGCCTCAAGATCTTGGTGGGCATGTATGATAAGAAG
 CCAGCAGGGCCTGGCCCCGGCCCTCCCGCACCCCGGCCAGCCTCAGCCTGGCCTCCATGCCCCAGCGC
 CTCGGCCTCCCAGTACACGCCATGCTCCCAACACCTACCAGCCCAGCCAGACAGCGTCTACCTGGT
 GCCACTCCCAGCAAGGCTCAGCAAGGCCTCTACCAAGTCCCGGTCCAGCCCTCAGTTCAGTCTCCC
 CCAGCCAAGCAGACATCCACCTTCTCGAAGCAGACACCCATCACCCGTTTCCAGCCCGGCCACAGACC
 TGTACCAGGTGCCCCAGGGCCTGGAGGCCTGCCAGGATATTTACCAGGTGCCACCTTCTGCCGGAT
 GGGGCATGACATCTACCAGTCCCCCGTCCATGGACACACGCAGCTGGGAGGGCAGCAAGCCCCGGCA
 AAGGTGGTGGTGCCACCCGCTGGGGCAGGGCTATGTATACGAGCCGCCAGCCGGAGCAGGACGAGT
 ACGACATCCCGCGACACCTGCTGGCCCCGGGGCCACAGGACATCTATGATGTGCCCCGGTTCGGGGCT
 GCTTCCAGCCAGTATGGCCAGGAGGTGTATGACACACCCCCATGGCTGTCAAGGGTCCCAATGGCCGA
 GACCCGTTGCTGGAGGTGTATGACGTGCCCCAGTGTGGAGAAGGGCCTGCCACCGTCCAACCACCAG
 CAGTGAGCAAATGCCAGGGCAATGCCAGGGCCAGGCTGAGGCTGTGGGTGTCTGGGTCTACGACGTTCC
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 TTCGCCAAGGCCAAGCCCTTTGACCCGGCCCGCACCCACTGGTACTGGTGCGCCCTCCAGACTCCC
 GCCTGGCCGAGGACGTGTATGACGTGCCGCCCGCCCTGCTGACCTCTACGACGTGCCCTGGCTGGC
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 GCGTGGTTCGACAGTGGTGTGTATGCGGTGCCTCCCCAGCTGAACGTGAAGCCCCGGCAGAGGGCAAGC
 GCCTGTGGCCTCCAGCACCGGCAGCACACGCAGCAGCCAGTCTGCGTCTCCTTGGAGGTGGCAGGGCC
 GGGCCGGGAACCCCTGGAGCTGGAAGTTGCTGTGGAGGCCTGGCACGGCTGCAGCAGGGTGTGAGCGCC
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 CACAGGAGCCGCTGGTGCAGGACCTGCAGGCTGCTGTGGCCGCTGTCCAGAGTGGCGTCCACGAGCTGT
 GGAGTTTGCCCGCAGCGGTGGCAATGCTGCCACACATCTGACCGTGCCTGCATGCCAAGCTTAGC
 CGGCAGCTGCAGAAGATGGAGGACGTGCACCAGACGCTGGTGGCACATGGTCAGGCCCTCGACGCTGGCC
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 CCGGGGCTGAGGGGGTGGCACCTGCACCCCAACCCACTGACAAGACCAGCAGCATCCAGTACAGC
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 GTCACGGCAGGCCAAGGCTGCTGACGTGCGCAGCCAGGTGACCCACTACAGCAACCTGCTGTGCGACCTC
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 TGGTGGAGAGGGTCAAGGAGCTGGGCCACAGCACCCAGCAGTCCGCCGCTCCTAGGCCAGCTGGCAGC
 CGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230562 representing NM_001170717
 Red=Cloning site Green=Tags(s)

MNHLNVLAKALYDNVAESPDEL SFRKGDIMTVLEQDTQGLDGWWLCSLHGRQGI VPGNRLKILVGM YDKK
 PAGPGPGPPATPAQPQGLHAPAPPASQYTPMLPNTYQPQDSVYL VPTPSKAQQGLYQVPGSPQFQSP
 PAKQTSTFSKQTPHHPFPSPATDLYQVPPGGGPAQDIYQVPPSAGMGHDIYQVPPSMDTRSWEGTKPPA
 KVVVPTRVGQGYVYEAQQPEQDEYDIPRHLLAPGPQDIYDVPPVRGLLPSQYQVEVYDTPPMAVKGPNGR
 DPILLEVYDVPPSVEKGLPPSNHHAVSKCQGNARARLRLWGVVYDVPPSVSKDVPDGPDLLREETYDVPPA
 FAKAKFPDPARTPLVLAAPPPDSPPAEDVYDVPPAPDLYDVPPGLRRPGGTL YDVPRERVL PPEVADG
 GVVDSGVYAVPPPAEREAPAEGKRLSASSTGSTRSSQSASSLEVAGGREPLELEVAVEALARLQQGVSA
 TVAHLDDL AGSAGATGSRWSPSEPQEPLVQDLQAAVA AVQSAVHELLEFARS AVGNAAHTSDRALHAKLS
 RQLQKMEDVHQTLVAHGQALDAGRGGGATLEDLDRLVACSRAPEDAKQLASFLHGNASLLFRRTKATA
 PGPEGGTLHPNPTDKTSSIQSRPLSPPKFTSQDSPDGGYENSEGGWMEDYDVVHLQGKEEFKTKEL
 LEKGSITRQKSQLELQQLKQFERLEQEVSRPIDHDLANWTPAQPLAPGRTGGLGPSDRQLLLFYLEQCE
 ANLTTLNAVDAFFTAVATNQPPIFVAH SKFVILSAHKL VFIGDTLSRQAKAADVRSQVTHYSNLLCDL
 LRGI VATTKAAALQYPSPSAAQDMVERVKELGHSTQQFRRVLGQLAAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

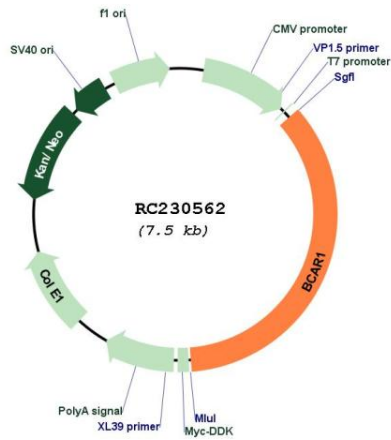
Cloning Scheme:



ACCN: NM_001170717

ORF Size:	2664 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:	<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_001170717.3
RefSeq ORF:	2667 bp
Locus ID:	9564
UniProt ID:	P56945
Cytogenetics:	16q23.1
Protein Families:	Druggable Genome
Protein Pathways:	Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton
MW:	95.9 kDa
Gene Summary:	The protein encoded by this gene is a member of the Crk-associated substrate (CAS) family of scaffold proteins, characterized by the presence of multiple protein-protein interaction domains and many serine and tyrosine phosphorylation sites. The encoded protein contains a Src-homology 3 (SH3) domain, a proline-rich domain, a substrate domain which contains 15 repeat of the YxxP consensus phosphorylation motif for Src family kinases, a serine-rich domain, and a bipartite Src-binding domain, which can bind both SH2 and SH3 domains. This adaptor protein functions in multiple cellular pathways, including in cell motility, apoptosis and cell cycle control. Dysregulation of this gene can have a wide range of effects, affecting different pathways, including cardiac development, vascular smooth muscle cells, liver and kidney function, endothelial migration, and cancer. [provided by RefSeq, Sep 2017]

Product images:



Circular map for RC230562