

Product datasheet for **RC230582**

BCAR1 (NM_001170714) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCAR1 (NM_001170714) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC230582 representing NM_001170714
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCTGCCAAGCCCTTCTCTTCTGTCTGCTCTCCTGGAAAGTTCTGGACTTCTTGCCCAAGGGC
 CTAGGGGACTGGCCAGCCCTGCTCCTGTGGGCACTGGGCAGAGGGACAAGGCCGACCACCTGAGCCTGC
 TGGAGGGCCGAACGTGCTGGCCAAAGCGCTCTATGACAATGTGGCCGAGTCCCGGATGAGCTCTCTTC
 CGCAAGGGTGACATCATGACGGTCTGGAGCAGGACACGCAGGGCCTGGACGGCTGGTGGCTCTGCTCGC
 TGCATGGGCGCCAGGGCATCGTGCCTGGGAACCGCCTCAAGATCTTGGTGGGCATGTATGATAAGAAGCC
 AGCAGGGCCTGGCCCCGGCCCTCCCGCCACCCCGGCCAGCCTCAGCCTGGCCTCCATGCCCCAGCGCCT
 CCGGCCTCCAGTACACGCCATGCTCCCAACACCTACCAGCCCCAGCCAGACAGCGTCTACCTGGTGC
 CCACTCCAGCAAGGCTCAGCAAGGCCTCTACCAAGTCCCGGGTCCAGCCCTCAGTTCAGTCTCCCC
 AGCCAAGCAGACATCCACCTTCTGAAGCAGACACCCATCACCCGTTTCCAGCCCGGCCACAGACCTG
 TACCAGGTGCCCCAGGGCCTGGAGGCCCTGCCAGGATATTTACCAGGTGCCACCTTCTGCCGGATGG
 GGCATGACATCTACCAGGTCCCCCGTCCATGGACACACGCAGCTGGGAGGGCACGAAGCCCCGGCAAA
 GGTGGTGGTGCCACCCGCGTGGGGCAGGGCTATGTATACGAGGCCGCCAGCCGGAGCAGGACGAGTAC
 GACATCCCGCGACACCTGCTGGCCCCGGGGCCACAGGACATCTATGATGTCCCCCGTTCCGGGGCTGC
 TTCCCAGCCAGTATGGCCAGGAGGTGTATGACACACCCCCATGGCTGTCAAGGGTCCCAATGGCCGAGA
 CCCGTTGCTGGAGGTGTATGACGTGCCCCCAGTGTGGAGAAGGGCCTGCCACCGTCCAACCACACGCA
 GTCTACGACGTTCTCCATCGGTGAGCAAGGATGTGCCGATGGCCACTGCTGCTGAGGAGACCTACG
 ATGTGCCCCCGCCTTCGCAAGGCCAAGCCCTTTGACCCGGCCGACCCCACTGGTACTGGCTGCGCC
 CCCTCCAGACTCCCCCGCGGCCGAGGACGTGTATGACGTGCCGCCCGGCTCCTGACCTCTACGACGTG
 CCCCCTGGCTTGCGGCGCCTGGCCCGGCCACCTGTACGATGTGCCCGTGAACGGGTGCTTCTCCTG
 AGGTGGTGTATGGTGGCGTGGTGCAGAGTGGTGTGTATGCGGTGCCTCCCCAGCTGAACGTGAAGCCCC
 GGCAGAGGGCAAGCGCCTGTGGCCTCCAGCACCCGGCAGCACACGCAGCAGCCAGTCTGCGTCTCTTGT
 GAGGTGGCAGGGCCGGCCGGGAACCCCTGGAGCTGGAAGTTGCTGTGGAGGCCCTGGCACGGCTGCAGC
 AGGGTGTGAGCGCACCGTTGCCACCTTCTGGACCTGGCAGGCAGCGCCGGTGCAGTGGGAGCTGGCG
 TAGCCCCCTGAGCCACAGGAGCCGCTGGTGCAGGACCTGCAGGCTGCTGTGGCCGCTGCCAGAGTGCC
 GTCACAGAGCTGTTGGAGTTTCCCGCAGCGCGTGGCAATGCTGCCACACATCTGACCGTGCCTGTC
 ATGCCAAGCTTAGCCGGCAGCTGCAAGAATGGAGGACGTGCACCAGACGCTGGTGGCAGATGGTACGGC
 CCTCGACGCTGGCCGGGAGGCTCTGGAGCCACCTTGAAGGACCTGGACCGGCTGGTGGCCTGCTCGCGG
 GCTGTGCCGAGGACGCCAAGCAGCTGGCCTCCTTCTGCACGGCAATGCCTCACTGCTCTTACAGCGGA
 CCAAGGCCACTGCCCCGGGGCCTGAGGGGGTGGCACCCTGCACCCCAACCCCACTGACAAGACCAGCAG
 CATCCAGTCACGACCCCTGCCCTCACCCCTAAGTTACCTCCCAGGACTCGCCAGATGGCAGTACGAG
 AACAGCGAGGGGGGCTGGATGGAGGACTATGACTACGTCCACCTACAGGGGAAGGAGGATTTGAGAAGA
 CCCAGAAGGAGCTGCTGGAAGGGCAGCATCACGCGGCAGGGCAAGAGCCAGCTGGAGTTGCAGCAGCT
 GAAGCAGTTTGAACGACTGGAACAGGAGGTGTACGGCCATAGACCAGACCTGGCCAAGTGGACGCCA
 GCCAACCCTTGCCCCGGGGCGAACAGCGGCCCTGGGGCCCTCGGACCGGCAGCTGCTGCTTCTACC
 TGGAGCAGTGTGAGGCCAACCTGACCACACTGACCAACGCCGTGGACGCCTTCTTTACCGCGTGGCCAC
 CAACCAGCCGCCAAGATCTTTGTGGCGCAGCAAGTTCGTCATCCTCAGCGCCACAAGCTGGTGTTC
 ATCGGGGACACACTGTCACGGCAGGCCAAGGCTGCTGACGTGCGCAGCCAGGTGACCCACTACAGCAACC
 TGCTGTGCGACCTCCTGCGCGCATCGTGGCCACCACCAAGGCCGCTGCCTTGACGTACCCATCGCCTTC
 CGCGGCCAGGACATGGTGGAGAGGTTCAAGGAGCTGGGCCACAGACCCAGCAGTTCGCCCGCTCCTA
 GGCCAGCTGGCAGCCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230582 representing NM_001170714
 Red=Cloning site Green=Tags(s)

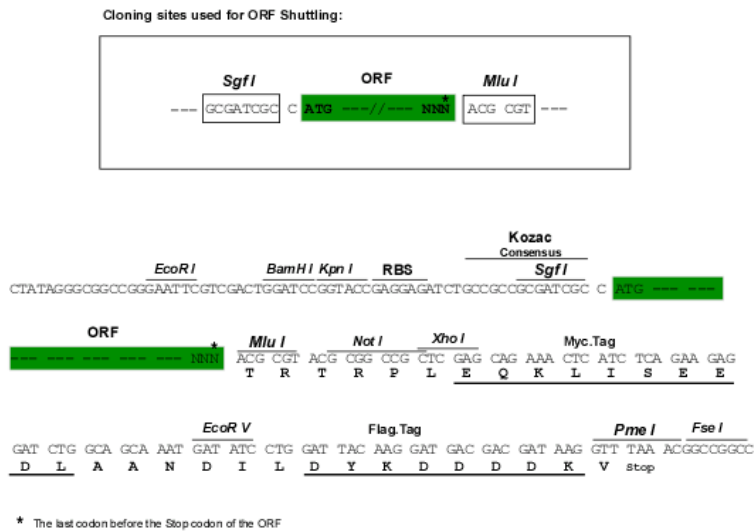
MPAKPFLSSVLLSWKVLDFSGPGPQGTGQPCSCGHWAEGQGGPPEPAGGPNVLAKALYDNVAESPEL SF
 RKGDIMTVLEQDTQGLDGWLCSLHGRQGI VPGNRLKILVGM YDKK PAGPGPPATPAQPQPLHAPAP
 PASQYTPMLPNTYQPQDSVYL VPTPSKAQQGL YQVPGPSPQFQSPPAKQTSTFSKQTPHHFPSPATDL
 YQVPPGPGGPAQDIYQVPPSAGMGHDIYQVPPSMDTRSWEGTKPPAKVVVPTRVGQGYVYEAQAPEQDEY
 DIPRHLLAPGPQDIYDVPPVRGLLPSQYQEVYDTPPM AVKGPNGRDPLLEVYDVPPSVEKGLPPSNHHA
 VYDVPPSVSKDVPDGP LLREETYDVPPAFAKAKPFDPARTPLVLAAPPDSPPAEDVYDVPPPADLYDV
 PPGLRRPGPGL YDVPREVRVLPPEVADGGVDSGVYAVPPPAEREAPAEGKRLSASSTGSTRSSQSASSL
 EVAGPGREPLELEVAVEALARLQQGVSATVAHLLDLAGSAGATG SWRSPSEPQEPLVQDLQA AVAAVQSA
 VHELLEFARS AVGNAHTSDRALHAKLSRQLQK MEDVHQTLVAHGQALDAGRGGSGATLEDLDR LVACSR
 AVPEDAKQLASFLHGNASLLFRRTKATAPGPEGGGLHPNPTDKTSSIQSRPLSPPKFTSQDSPDGQYE
 NSEGGW MEDYDYVHLQGKEEFKTKELLEKGSITRQGSQLELQQLKQFERLEQVSRPIDHDLANWTP
 AQPLAPGRTGGLGPSDRQLLLFYLEQCEANL TLTNAVDAFFTAVATNQPKIFVAHSKFVILSAHKLVF
 IGDTL SRQAKAADVRSQVTHYSNLLCDLLRGIVATTKAAALQYSPSAAQDMVERVKELGHSTQQFRRVL
 GQLAAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

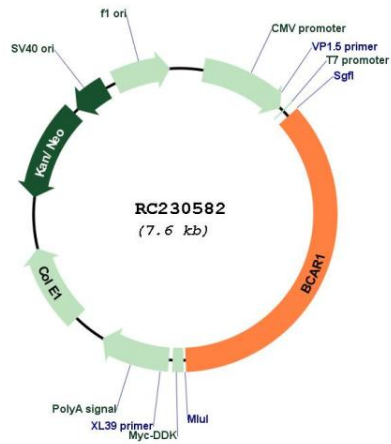


ACCN: NM_001170714

ORF Size: 2748 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_001170714.3
RefSeq ORF:	2751 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:	98.3 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 RC230582