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Product datasheet for RC230457

BCAR1 (NM_001170720) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCAR1 (NM_001170720) 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:

>RC230457 representing NM_001170720
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGGGGAAGAACGTGCTGGCCAAAGCGCTCTATGACAATGTGGCCGAGTCCCCGGATGAGCTCTCCT
TCCGCAAGGGTGACATCATGACGGTGCTGGAGCAGGACACGCAGGGCCTGGACGGCTGGTGGCTCTGCTC
GCTGCATGGGCGCCAGGGCATCGTGCCTGGGAACCGCCTCAAGATCTTGGTGGTGGTGCCCACCCGCGTG
GGGCAGGGCTATGTATACGAGGCCGCCCAGCCGGAGCAGGACGAGTACGACATCCCGCGACACCTGCTGG
CCCCGGGGCCACAGGACATCTATGATGTGCCCCCGGTTCGGGGGCTGCTTCCCAGCCAGTATGGCCAGGA
GGTGTATGACACACCCCCCATGGCTGTCAAGGGTCCCAATGGCCGAGACCCGTTGCTGGAGGTGTATGAC
GTGCCCCCCAGTGTGGAGAAGGGCCTGCCACCGTCCAACCACCACGCAGTCTACGACGTTCCTCCATCGG
TGAGCAAGGATGTGCCCGATGGCCCACTGCTGCGTGAGGAGACCTACGATGTGCCCCCCGCCTTCGCCAA
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GAGGACGTGTATGACGTGCCGCCCCCGGCTCCTGACCTCTACGACGTGCCCCCTGGCTTGCGGCGGCCTG
GCCCGGGCACCCTGTACGATGTGCCCCGTGAACGGGTGCTTCCTCCTGAGGTGGCTGATGGTGGCGTGGT
CGACAGTGGTGTGTATGCGGTGCCTCCCCCAGCTGAACGTGAAGCCCCGGCAGAGGGCAAGCGCCTGTCG
GCCTCCAGCACCGGCAGCACACGCAGCAGCCAGTCTGCGTCCTCCTTGGAGGTGGCAGGGCCGGGCCGGG
AACCCCTGGAGCTGGAAGTTGCTGTGGAGGCCCTGGCACGGCTGCAGCAGGGTGTGAGCGCCACCGTTGC
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CCGCTGGTGCAGGACCTGCAGGCTGCTGTGGCCGCTGTCCAGAGTGCCGTCCACGAGCTGTTGGAGTTTG
CCCGCAGCGCGGTGGGCAATGCTGCCCACACATCTGACCGTGCCCTGCATGCCAAGCTTAGCCGGCAGCT
GCAGAAGATGGAGGACGTGCACCAGACGCTGGTGGCACATGGTCAGGCCCTCGACGCTGGCCGGGGAGGC
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AGGACTATGACTACGTCCACCTACAGGGGAAGGAGGAGTTTGAGAAGACCCAGAAGGAGCTGCTGGAAAA
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GACCACACTGACCAACGCCGTGGACGCCTTCTTTACCGCCGTGGCCACCAACCAGCCGCCCAAGATCTTT
GTGGCGCACAGCAAGTTCGTCATCCTCAGCGCCCACAAGCTGGTGTTCATCGGGGACACACTGTCACGGC
AGGCCAAGGCTGCTGACGTGCGCAGCCAGGTGACCCACTACAGCAACCTGCTGTGCGACCTCCTGCGCGG
CATCGTGGCCACCACCAAGGCCGCTGCCTTGCAGTACCCATCGCCTTCCGCGGCCCAGGACATGGTGGAG
AGGGTCAAGGAGCTGGGCCACAGCACCCAGCAGTTCCGCCGCGTCCTAGGCCAGCTGGCAGCCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

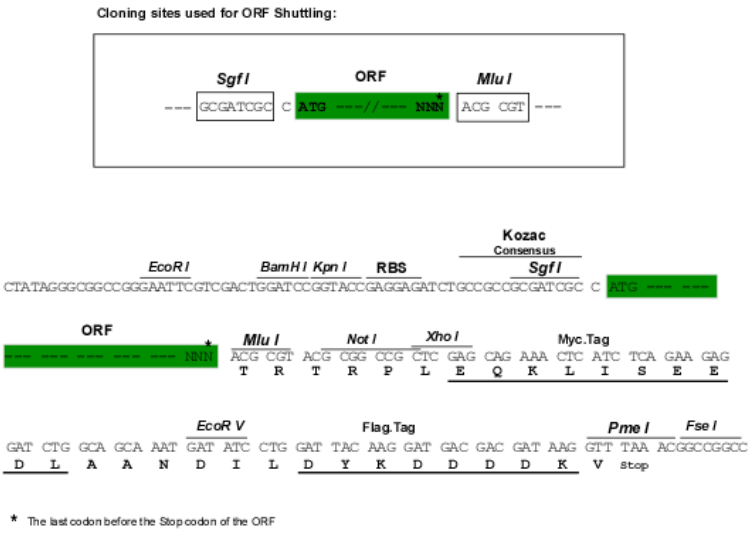
>RC230457 representing NM_001170720
Red=Cloning site Green=Tags(s)

MQGKNVLAKALYDNVAESPDELSFRKGDIMTVLEQDTQGLDGWWLCSLHGRQGIVPGNRLKILVVVPTRV
GQGYVYEAAQPEQDEYDIPRHLLAPGPQDIYDVPPVRGLLPSQYGQEVYDTPPMAVKGPNGRDPLLEVYD
VPPSVEKGLPPSNHHAVYDVPPSVSKDVPDGPLLREETYDVPPAFAKAKPFDPARTPLVLAAPPPDSPPA
EDVYDVPPPAPDLYDVPPGLRRPGPGTLYDVPRERVLPPEVADGGVVDSGVYAVPPPAEREAPAEGKRLS
ASSTGSTRSSQSASSLEVAGPGREPLELEVAVEALARLQQGVSATVAHLLDLAGSAGATGSWRSPSEPQE
PLVQDLQAAVAAVQSAVHELLEFARSAVGNAAHTSDRALHAKLSRQLQKMEDVHQTLVAHGQALDAGRGG
SGATLEDLDRLVACSRAVPEDAKQLASFLHGNASLLFRRTKATAPGPEGGGTLHPNPTDKTSSIQSRPLP
SPPKFTSQDSPDGQYENSEGGWMEDYDYVHLQGKEEFEKTQKELLEKGSITRQGKSQLELQQLKQFERLE
QEVSRPIDHDLANWTPAQPLAPGRTGGLGPSDRQLLLFYLEQCEANLTTLTNAVDAFFTAVATNQPPKIF
VAHSKFVILSAHKLVFIGDTLSRQAKAADVRSQVTHYSNLLCDLLRGIVATTKAAALQYPSPSAAQDMVE
RVKELGHSTQQFRRVLGQLAAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001170720

ORF Size: 2166 bp

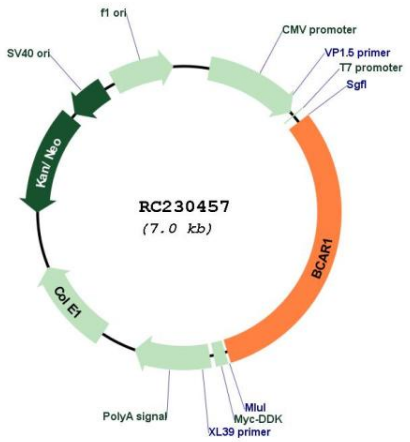
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001170720.3
RefSeq ORF:	2169 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:	78.2 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 RC230457