

Product datasheet for **RG230562**

BCAR1 (NM_001170717) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCAR1 (NM_001170717) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BCAR1
Synonyms:	CAS; CAS1; CASS1; CRKAS; P130Cas
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230562 representing NM_001170717
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCACCTGAACGTGCTGGCCAAAGCGCTCTATGACAATGTGGCCGAGTCCCGGATGAGCTCTCCT
 TCCGCAAGGGTGACATCATGACGGTGTGGAGCAGGACACGCAGGGCCTGGACGGCTGGTGGCTCTGCTC
 GCTGCATGGGCGCCAGGGCATCGTGCTGGGAACCGCCTCAAGATCTTGGTGGGCATGTATGATAAGAAG
 CCAGCAGGGCCTGGCCCCGGCCCTCCCGCCACCCCGGCCAGCCTCAGCCTGGCCTCCATGCCCCAGCGC
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 GCCACTCCCAGCAAGGCTCAGCAAGGCCTCTACCAAGTCCCGGTCCAGCCCTCAGTTCAGTCTCCC
 CCAGCCAAGCAGACATCCACCTTCTCGAAGCAGACACCCATCACCCGTTTCCAGCCCGGCCACAGACC
 TGTACCAGGTGCCCCAGGGCCTGGAGGCCCTGCCAGGATATTTACCAGGTGCCACCTTCTGCCGGAT
 GGGGCATGACATCTACCAGTCCCCCGTCCATGGACACACGCAGCTGGGAGGGCACGAAGCCCCGGCA
 AAGGTGGTGGTGCCACCCGCTGGGGCAGGGCTATGTATACGAGCCGCCAGCCGGAGCAGGACGAGT
 ACGACATCCCGCGACACCTGCTGGCCCCGGGGCCACAGGACATCTATGATGTGCCCCGGTTCGGGGCT
 GCTTCCAGCCAGTATGGCCAGGAGGTGTATGACACACCCCCATGGCTGTCAAGGGTCCCAATGGCCGA
 GACCCGTTGCTGGAGGTGTATGACGTGCCCCCAAGTGTGGAGAAGGGCCTGCCACCGTCCAACCACAGC
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 TTCGCCAAGGCCAAGCCCTTTGACCCGGCCCGCACCCCACTGGTACTGGTGCGCCCTCCAGACTCCC
 CGCCGGCCGAGGACGTGTATGACGTGCCGCCCGCCCTCTGACCTCTACGACGTGCCCTGGCTGGCG
 GCGGCCTGGCCCGGCCACCTGTACGATGTGCCCGTGAACGGGTGCTTCTCCTGAGGTGGCTGATGGT
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 CACAGGAGCCGCTGGTGCAGGACCTGCAGGCTGCTGTGGCCGCTGTCCAGAGTCCCGTCCACGAGCTGT
 GGAGTTTGCCCGCAGCGGTGGCAATGCTGCCACACATCTGACCGTGCCTGCATGCCAAGCTTAGC
 CGGCAGCTGCAGAAGATGGAGGACGTGCACCAGACGCTGGTGGCACATGGTCAGGCCCTCGACGCTGGCC
 GGGGAGGCTCTGGAGCCACCCTTGAGGACCTGGACCGGCTGGTGGCTGCTCGCGGGCTGTGCCGAGGA
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 TGGTGGAGAGGGTCAAGGAGCTGGGCCACAGCACCCAGCAGTTCGCCCGCTCCTAGGCCAGCTGGCAGC
 CGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG230562 representing NM_001170717
 Red=Cloning site Green=Tags(s)

MNHLNVLAKALYDNVAESPDEL SFRKGDIMTVLEQDTQGLDGWWLCSLHGRQGI VPGNRLKILVGM YDKK
 PAGPGPGPPATPAQPQGLHAPAPPASQYTPMLPNTYQPQDSVYL VPTPSKAQQGLYQVPGPSPQFQSP
 PAKQTSTFSKQTPHHPFPPSPATDLYQVPPGGGPAQDIYQVPPSAGMGHDIYQVPPSMDTRSWEGTKPPA
 KVVVPTRVGGYVYEAQAQPEQDEYDIPRHLLAPGPQDIYDVPPVRGLLPSQYQGVEYDTPPMAVKGPNGR
 DPILLEVYDVPPSVEKGLPPSNHHAVSKCQGNARARLRLWGVVYDVPPSVSKDVPDGP LLREETYDVPPA
 FAKAKPFPARTPLVLAAPPPDSPPAEDVYDVPPAPDLYDVPPGLRRPGGTL YDVPRERVL PPEVADG
 GVVDSGVYAVPPPAEREAPAEGKRLSASSTGSTRSSQSASSLEVAGGREPLELEVAVEALARLQQG VSA
 TVAHLDDL LAGSAGATGSRWSPSEPQEPLVQDLQA AVAVQSAVHELLEFARS AVGNAAHTSDRALHAKLS
 RQLQKMEDVHQT LVAHGQALDAGRGGSGATLEDLDR L VACSRAPEDAKQLASFLHGNASLLFRRTKATA
 PGPEGGTLHPNPDKTSSIQSRPLSPPKFTSQDSPDGGYENSEGGWMEDYDVVHLQGKEEFKTKEL
 LEKGSITRQGSQLELQQLKQFERLEQEVSRPIDHDLANWTPAQPLAPGRTGGLGPSDRQLLLFYLEQCE
 ANLTTLTNAVDAFFTAVATNQPKIFVAH SKFVILSAHKL VFIGDTLSRQAKAADVRSQVTHYSNLLCDL
 LRGI VATTKAAALQYPSPSAAQDMVERVKELGHSTQQFRRVLGQLAAA

TRTRPLE - GFP Tag - V

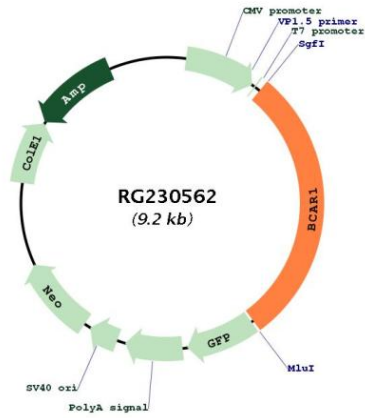
Restriction Sites: SgfI-MluI

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 Size:	3311 bp
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
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 RG230562