

Product datasheet for **SC125332**

BCAR1 (NM_014567) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCAR1 (NM_014567) Human Untagged Clone
Tag:	Tag Free
Symbol:	BCAR1
Synonyms:	CAS; CAS1; CASS1; CRKAS; P130Cas
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC125332 sequence for NM_014567 edited (data generated by NextGen Sequencing)

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ATGAACCACCTGAACGTGCTGGCCAAAGCGTCTATGACAATGTGGCCGAGTCCCCGGAT
GAGCTCTCCTCCGCAAGGGTGACATCATGACGGTGTGGAGCAGGACACGCAGGGCCTG
GACGGCTGGTGGCTCTGCTCGTGCATGGGCGCCAGGGCATCGTGCCTGGGAACCGCCTC
AAGATCTTGGTGGGCATGTATGATAAGAAGCCAGCAGGGCCTGGTCCGGCCCTCCCGCC
ACCCCGGCCAGCCTCAGCTGGCTCCATGCCCCAGCGCCTCCGGCCTCCAGTACACG
CCCATGTCTCCCAACACCTACCAGCCCCAGCCAGACAGCGTCTACCTGGTGCCCCACTCCC
AGCAAGGCTCAGCAAGGCCTCTACCAAGTCCCGGGTCCCAGCCCTCAGTTCAGTCTCCC
CCAGCCAAGCAGACATCCACCTTCTCGAAGCAGACACCCCATCACCCGTTTCCCAGCCCG
GCCACAGACCTGTACCAGGTGCCCCAGGGCCTGGAGGCCTGCCAGGATATTTACCAG
GTGCCACCTTCTGCCGGATGGGCATGACATCTACCAGTCCCCCGTCCATGGACACA
CGCAGCTGGGAGGGCACGAAGCCCCGGCAAAGTGGTGGTGCCACCCGCGTGGGGCAG
GGCTATGTATACGAGGCCGCCAGCCGGAGCAGGACGAGTACGACATCCCGGCACACTG
CTGGCCCCGGGGCCACAGGACATCTATGATGTGCCCCCGTTCCGGGGCTGCTTCCCAGC
CAGTATGGCCAGGAGGTGTATGACACACCCCCATGGCTGTCAAGGGTCCAATGGCCGA
GACCCGTTGCTGGAGGTGTATGACGTGCCCCCACTGTGGAGAAGGGCCTGCCACCGTCC
AATCACACGCGAGTCTACGACGTTCTCCATCGGTGAGCAAGGATGTGCCGATGGCCCA
CTGCTGCGTGAGGAGACCTACGATGTGCCCCCGCCTTCGCCAAGGCCAAGCCCTTTGAC
CCGGCCCCGACCCCACTGGTACTGGCTGCGCCCTCCAGACTCCCCGCCGGCCGAGGAC
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CCTGGCCCCGGGCACCTGTACGATGTGCCCGTGAACGGGTGCTTCTCCTGAGGTGGCT
GATGGTGGCGTGGTGCACAGTGGTGTGTATGCGGTGCCTCCCCAGCTGAACGTGAAGCC
CCGGCAGAGGGCAAGCGCTGTCCGGCTCCAGCACCGGCAGCACACGCAGCAGCCAGTCT
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TTTGCCCCGAGCGCGTGGCAATGCTGCCACACATCTGACCGTCCCTGCATGCCAAG
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GCCTGCTCGCGGGCTGTGCCGAGGACGCAAGCAGCTGGCTCCTTCTGCACGGCAAT
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CCTAAGTTCACCTCCCAGGACTCGCCAGATGGGCAGTACGAGAACAGCGAGGGGGGCTGG
ATGGAGGACTATGACTACGTCCACCTACAGGGGAAGGAGGAGTTTGAGAAGACCCAGAAG
GAGCTGCTGGAAGGGCAGCATCACGCGGCAGGGCAAGGCCAGCTGGAGTTGCAGCAG
CTGAAGCAGTTTGAACGACTGGAACAGGAGGTGTACGGCCCATAGACCACGACCTGGCC
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CGGCAGCTGCTGCTCTTCTACCTGGAGCAGTGTGAGGCCAACCTGACCACACTGACCAAC
GCCGTGGACGCTTCTTTACCGCGTGGCCACCAACCAGCCGCCAAGATCTTTGTGGCG
CACAGCAAGTTTCGTATCCTCAGCGCCACAAGCTGGTGTTCATCGGGGACACACTGTCA
CGGCAGGCCAAGGCTGCTGACGTGCGCAGCCAGGTGACCCACTACAGCAACCTGTGTGC
GACCTCTGCGCGGCATCGTGGCCACCACCAAGGCCGCTGCCTTGCAGTACCCATCGCT
TCCCGGGCCAGGACATGGTGGAGAGGTCAAGGAGCTGGCCACAGCACCCAGCAGTTC
CGCCGCTCCTAGGCCAGCTGGCAGCCGCTGA

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Clone variation with respect to NM_014567.3
 226 c=>t;903 c=>t;1530 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014567 unedited
 CCCCCGCCCGTTGCCGCAAAGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAG
 AGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCAA
 TTCGGCACGAGGCTCTGGGTGGCCGAGGCGGCAGCTGCGCGGGCACCAGGGGCGGCTGC
 GGGCGCTCGGAGCCCCGAGGGCACGCGGCCCGGGCAGCTCGGTGTGCGCCCCGCGAGA
 GCCGGGGCCCCAGGCCCGCCGACACCATGAACCACCTGAACGTGCTGGCCAAAGCGCTC
 TATGACAATGTGGCCGAGTCCCCGGATGAGCTCTCCTTCGCAAGGGTGACATCATGACG
 GTGCTGGAGCAGGACACGCAGGGCCTGGACGGCTGGTGGCTCTGCTCGCTGCATGGGCGC
 CAGGGCATCGTGCTGGGAACCGCTCAAGATCTTGGTGGGCATGTATGATAAGAAGCCA
 GCAGGGCTGGTCCGGCCCTCCGCCACCCGGCCAGCCTCAGCCTGGCTCCATGCC
 CCAGCGCTCCGGCTCCAGTACACGCCATGCTCCCCAACACCTACCAGCCCCAGCCA
 GACAGCGTCTACCTGGTGCCACTCCCAGCAAGGCTCAGCAAGGCCTCTACCAAGTCCCG
 GGTCCCAGCCCTCAGTTCAGTCTCCCCAGCCAAGCAGACATCCACCTTCTCGAAGCAG
 ACACCCATCACCGTTTCCAGCCGCCACAGACCTGTACCAGTCCCCCAGGCCCTGN
 AGGGCCTGCCAGGATATTACCCAGTGCCACTCTGCCGATGGGGCATGACTCTACCAG
 TCCCCCGTCCATGACACCGCAGCTGGAGGGCACGAACCCCGCCAAGTGGTGGTGCCACCC
 CGTGGGCAGGCTATGATACCAGCCGCCAGCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014567 unedited
 TTTTGCCAAATTTGGACCGCGCCGATTCTANATCGAGTTTTTTTTTTTTTTTTTCTT
 TTA AAAA CTTTATTTAAATGGAGACTCTTAGTCAAATGATTGGAAAACCAATAACGAAAA
 ATAGTTCTTCAGTTCTTCTCCTGGAAAGCGGAGGACACACCAAACCTGCACTGGCCCTG
 TCAGGGGACACGGCACCCCTCGTGGGACAGGCTCAGCCCTCGGGGTGGCAGAGGTCTG
 CAGGCTGCAGGACCTCACACTCCAGCCCGTCTGGTGACCCAACCCGGGCCCGTGGTGC
 ATGCTGGAGAAGGCCACTGGCCGGCCCTGGGCTTCGGCTCCTGAGGAGGCATGGCCCCA
 CACCCTGCCCGGCATAAATATATACAGATTCTGGGCATCCAGGGCACCAGGACCGACG
 CAGAGCTGGGGTCTGTCCCTAAGCCTGTGGCAGCAGGACTTTGACATGGGAGCCAGGG
 AGCTGGGACCGCCGACCCCTCCCCTGCCTCCCTCCTGGGGTACCACCCCTCAGGCGGT
 GCCAGCTGGCCTAGGACGCGCGGAAGCGATGGGTACTGCAAGGCAGCGGCCTTGGTGGTG
 GCCACGATGCCGCGCAGGAGGTCGCACAGCAGGTTGCTGTAGTGGGTACCTGGCTGCGC
 ACGTCAGCAGCCTTGGCCTGCCGTGACAGTGTGTCCCGATGAACACCAGCTTGTGGGCG
 CTGAGGATGACGAACTTGTGTGCGCCACANAGATCTTGGGCGGTGGTGGTGCCACG
 GCGGTAAGAAGGCGTCCACGGCGTTGGTCAGTGTGA

Restriction Sites:

NotI-NotI

ACCN:

NM_014567

Insert Size:

3500 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_014567.2 , NP_055382.2
RefSeq Size:	3241 bp
RefSeq ORF:	2613 bp
Locus ID:	9564
UniProt ID:	P56945
Cytogenetics:	16q23.1
Domains:	SH3, Extensin_2
Protein Families:	Druggable Genome
Protein Pathways:	Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (6) has an alternate 5' sequence, as compared to variant 1. The resulting isoform (6) is shorter and has a different N-terminus, as compared to isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>