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Product datasheet for SC329200

BCAR1 (NM_001170717) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCAR1 (NM_001170717) Human Untagged Clone
Tag:	Tag Free
Symbol:	BCAR1
Synonyms:	CAS; CAS1; CASS1; CRKAS; P130Cas
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001170717, the custom clone sequence may differ by one or more nucleotides

ATGAACCACCTGAACGTGCTGGCCAAAGCGCTCTATGACAATGTGGCCGAGTCCCCGGAT
GAGCTCTCCTTCCGCAAGGGTGACATCATGACGGTGCTGGAGCAGGACACGCAGGGCCTG
GACGGCTGGTGGCTCTGCTCGCTGCATGGGCGCCAGGGCATCGTGCCTGGGAACCGCCTC
AAGATCTTGGTGGGCATGTATGATAAGAAGCCAGCAGGGCCTGGCCCCGGCCCTCCCGCC
ACCCCGGCCCAGCCTCAGCCTGGCCTCCATGCCCCAGCGCCTCCGGCCTCCCAGTACACG
CCCATGCTCCCCAACACCTACCAGCCCCAGCCAGACAGCGTCTACCTGGTGCCCACTCCC
AGCAAGGCTCAGCAAGGCCTCTACCAAGTCCCGGGTCCCAGCCCTCAGTTCCAGTCTCCC
CCAGCCAAGCAGACATCCACCTTCTCGAAGCAGACACCCCATCACCCGTTTCCCAGCCCG
GCCACAGACCTGTACCAGGTGCCCCCAGGGCCTGGAGGCCCTGCCCAGGATATTTACCAG
GTGCCACCTTCTGCCGGGATGGGGCATGACATCTACCAGGTCCCCCCGTCCATGGACACA
CGCAGCTGGGAGGGCACGAAGCCCCCGGCAAAGGTGGTGGTGCCCACCCGCGTGGGGCAG
GGCTATGTATACGAGGCCGCCCAGCCGGAGCAGGACGAGTACGACATCCCGCGACACCTG
CTGGCCCCGGGGCCACAGGACATCTATGATGTGCCCCCGGTTCGGGGGCTGCTTCCCAGC
CAGTATGGCCAGGAGGTGTATGACACACCCCCCATGGCTGTCAAGGGTCCCAATGGCCGA
GACCCGTTGCTGGAGGTGTATGACGTGCCCCCCAGTGTGGAGAAGGGCCTGCCACCGTCC
AACCACCACGCAGTGAGCAAATGCCAGGGCAATGCCAGGGCCAGGCTGAGGCTGTGGGGT
GTCTGGGTCTACGACGTTCCTCCATCGGTGAGCAAGGATGTGCCCGATGGCCCACTGCTG
CGTGAGGAGACCTACGATGTGCCCCCCGCCTTCGCCAAGGCCAAGCCCTTTGACCCGGCC
CGCACCCCACTGGTACTGGCTGCGCCCCCTCCAGACTCCCCGCCGGCCGAGGACGTGTAT
GACGTGCCGCCCCCGGCTCCTGACCTCTACGACGTGCCCCCTGGCTTGCGGCGGCCTGGC
CCGGGCACCCTGTACGATGTGCCCCGTGAACGGGTGCTTCCTCCTGAGGTGGCTGATGGT
GGCGTGGTCGACAGTGGTGTGTATGCGGTGCCTCCCCCAGCTGAACGTGAAGCCCCGGCA
GAGGGCAAGCGCCTGTCGGCCTCCAGCACCGGCAGCACACGCAGCAGCCAGTCTGCGTCC
TCCTTGGAGGTGGCAGGGCCGGGCCGGGAACCCCTGGAGCTGGAAGTTGCTGTGGAGGCC
CTGGCACGGCTGCAGCAGGGTGTGAGCGCCACCGTTGCCCACCTTCTGGACCTGGCAGGC
AGCGCCGGTGCGACTGGGAGCTGGCGTAGCCCCTCTGAGCCACAGGAGCCGCTGGTGCAG
GACCTGCAGGCTGCTGTGGCCGCTGTCCAGAGTGCCGTCCACGAGCTGTTGGAGTTTGCC
CGCAGCGCGGTGGGCAATGCTGCCCACACATCTGACCGTGCCCTGCATGCCAAGCTTAGC
CGGCAGCTGCAGAAGATGGAGGACGTGCACCAGACGCTGGTGGCACATGGTCAGGCCCTC
GACGCTGGCCGGGGAGGCTCTGGAGCCACCCTTGAGGACCTGGACCGGCTGGTGGCCTGC
TCGCGGGCTGTGCCCGAGGACGCCAAGCAGCTGGCCTCCTTCCTGCACGGCAATGCCTCA
CTGCTCTTCAGACGGACCAAGGCCACTGCCCCGGGGCCTGAGGGGGGTGGCACCCTGCAC
CCCAACCCCACTGACAAGACCAGCAGCATCCAGTCACGACCCCTGCCCTCACCCCCTAAG
TTCACCTCCCAGGACTCGCCAGATGGGCAGTACGAGAACAGCGAGGGGGGCTGGATGGAG
GACTATGACTACGTCCACCTACAGGGGAAGGAGGAGTTTGAGAAGACCCAGAAGGAGCTG
CTGGAAAAGGGCAGCATCACGCGGCAGGGCAAGAGCCAGCTGGAGTTGCAGCAGCTGAAG
CAGTTTGAACGACTGGAACAGGAGGTGTCACGGCCCATAGACCACGACCTGGCCAACTGG
ACGCCAGCCCAACCCCTGGCCCCGGGGCGAACAGGCGGCCTGGGGCCCTCGGACCGGCAG
CTGCTGCTCTTCTACCTGGAGCAGTGTGAGGCCAACCTGACCACACTGACCAACGCCGTG
GACGCCTTCTTTACCGCCGTGGCCACCAACCAGCCGCCCAAGATCTTTGTGGCGCACAGC
AAGTTCGTCATCCTCAGCGCCCACAAGCTGGTGTTCATCGGGGACACACTGTCACGGCAG
GCCAAGGCTGCTGACGTGCGCAGCCAGGTGACCCACTACAGCAACCTGCTGTGCGACCTC
CTGCGCGGCATCGTGGCCACCACCAAGGCCGCTGCCTTGCAGTACCCATCGCCTTCCGCG
GCCCAGGACATGGTGGAGAGGGTCAAGGAGCTGGGCCACAGCACCCAGCAGTTCCGCCGC
GTCCTAGGCCAGCTGGCAGCCGCCTGA

Restriction Sites: Please inquire

ACCN: NM_001170717

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001170717.1, NP_001164188.1
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]
Transcript Variant: This variant (4) has an alternate 5' sequence and an alternate splice site in the CDS, as compared to variant 1. The resulting isoform (4) is shorter, and has a different N-terminus and an additional segment in the middle region, as compared to isoform 1.
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.