

## Product datasheet for **RG230582**

### **BCAR1 (NM\_001170714) Human Tagged ORF Clone**

#### **Product data:**

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

>RG230582 representing NM\_001170714  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCTGCCAAGCCCTTCTCTTCTGTCTGTCTCCTGGAAAGTTCTGGACTTCTTGCCAGGGC  
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 TGGAGGGCCGAACGTGCTGGCCAAAGCGCTCTATGACAATGTGGCCGAGTCCCGGATGAGCTCTCTTC  
 CGCAAGGGTGACATCATGACGGTCTGGAGCAGGACACGCAGGGCCTGGACGGCTGGTGGCTCTGCTCGC  
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 TGCTGTGCGACCTCCTGCGCGCATCGTGGCCACCACCAAGGCCGCTGCCTTGACGTACCCATCGCCTTC  
 CGCGGCCAGGACATGGTGGAGAGGGTCAAGGAGCTGGGCCACAGACCCAGCAGTTCGCCCGCTCCTA  
 GGCCAGCTGGCAGCCGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG230582 representing NM\_001170714  
Red=Cloning site Green=Tags(s)

```
MPAKPFLSSVLLSWKVLDFSGPGPQGTGQPCSCGHWAEGQGGPPEPAGGPNVLAKALYDNVAESPEL SF
RKGDIMTVLEQDTQGLDGWLCSLHGRQGI VPGNRLKILVGM YDKK PAGPGPPATPAQPPGLHAPAP
PASQYTPMLPNTYQPQDSVYL VPTPSKAQQGL YQVPGSPQFQSPPAKQTSTFSKQTPHHFPSPATDL
YQVPPGPGGPAQDIYQVPPSAGMGHDIYQVPPSMDTRSWEGTKPPAKVVVPTRVGGQGYVYEAQPEQDEY
DIPRHL LAPGPQDIYDVPPVRGLLPSQYQEVYDTPPM AVKGPNGRDPLLEVDVPPSVEKGLPPSNHHA
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PPGLRRPGGTL YDVPREVRVLPPEVADGGVVD SGVYAVPPPAEREAPAEGKRLSASSTGSTRSSQSASSL
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VHELLEFARS AVGNAHTSDRALHAKLSRQLQK MEDVHQTLVAHGQALDAGRGGSGATLEDLDRLVACSR
AVPEDAKQLASFLHGNASLLFRRTKATAPGPEGGGLHPNPTDKTSSIQSRPLSPPKFTSQDSPDGQYE
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AQPLAPGRTGGLGPSDRQLLLFYLEQCEANL TLTNAVDAFFTAVATNQPKIFVAH SKFVILSAHKLVF
IGDTLSRQAKAADVRSQVTHYSNLLCDLLRGIVATTKAAALQYSPSAAQDMVERVKELGHSTQQFRRVL
GQLAAA
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

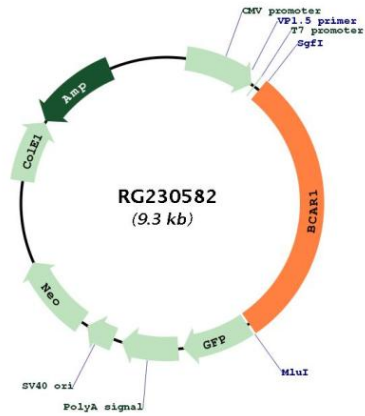
**Cloning Scheme:**



**ACCN:** NM\_001170714

<b>ORF Size:</b>	2748 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001170714.3</a>
<b>RefSeq Size:</b>	3533 bp
<b>RefSeq ORF:</b>	2751 bp
<b>Locus ID:</b>	9564
<b>UniProt ID:</b>	<a href="#">P56945</a>
<b>Cytogenetics:</b>	16q23.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Regulation of actin cytoskeleton
<b>Gene Summary:</b>	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 RG230582