

Product datasheet for RC230457L3

OriGene Technologies, Inc.

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BCAR1 (NM_001170720) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: BCAR1 (NM_001170720) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: BCAR1

Synonyms: CAS; CAS1; CRKAS; P130Cas

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

Sgfl-Mlul

E. coli Selection: Chloramphenicol (34 ug/mL)

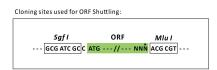
ORF Nucleotide The ORF insert of this clo

Sequence:

The ORF insert of this clone is exactly the same as(RC230457).

Restriction Sites:

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001170720

ORF Size: 2166 bp





BCAR1 (NM_001170720) Human Tagged Lenti ORF Clone - RC230457L3

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: <u>NM 001170720.1</u>

 RefSeq ORF:
 2169 bp

 Locus ID:
 9564

 UniProt ID:
 P56945

Cytogenetics:

Protein Families: Druggable Genome

16q23.1

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]