

Product datasheet for **RC234795**

BCAR3 (NM_001261410) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCAR3 (NM_001261410) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BCAR3
Synonyms:	AND-34; MIG7; NSP2; SH2D3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC234795 representing NM_001261410
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCTAAGGAATGCAGTGCTTTCCACGCCCTCTCAGCAGCTCTGTGCTGCTTCTATCACCGCAAGTCTT
TCATTGGAGTCAAGTTCTCCAAGGAGAGGCACATCATGGACAGGACCCCGAGAACTGAAGAAGGAGCT
GGAGGAGGAGCTGCTCCTGAGCAGCGAGGACCTGCGCAGCCATGCCTGGTACCACGGCCGCATCCCCGA
CAGGTGTCTGAAAACCTTGTGCAGCGAGATGGTGACTTCTAGTTCGTGACTCTCTGTCCAGCCCTGGGA
ACTTTGCTGACTGTGAGTGAAGAACCTCGCTCAGCACTTCAAAATCAACCGGACAGTTCTGCGACT
CAGCGAGGCTACAGCCGCTGCACTACAGTTCGAGATGGAGAGCTTCGACTCCATCCCCGGCCTGGTG
CGCTGCTACGTGGCAACCGCCGCCATCTCCAGCAGAGTGGCGCCATCATCTCCAGCCCATCAACA
GGACGGTGCCTCTGCGGTGCCTGGAGGAGCATTATGGCACCTCCCAGGCCAGGCCCGGGAGGGCAGCCT
CACCAAGGAAGGCCGGATGTGGCAAGAGGCTGAGCCTCACCATGGGTGGCGTCCAGGCCCGAGAGCAG
AATTTGCCAGGGGAAACCTCCTCAGAAACAAAGAAAAGAGTGGTAGCCAGCCCGCTGCCTGGATCACA
TGCAGGACAGAAGAGCCTTGTCCCTCAAAGCCACCAGTCAGAGAGCTACCTGCCGATTGGCTGCAAGCT
GCCACCTCAGTCTCGGGTGTGGACACAAGCCCTGCCAAAACCTCACCTGTGTTCAAGGACGGGAAGCGAG
CCTGCCCTGAGCCAGCAGTGGTTCGGAGGGTCTCCTCAGACGCCAGGGCTGGGGAGGCGCTGAGGGGAT
CAGACAGTCAACTGTGCCCTAAGCCCCGCCTAAGCCCTGCAAGGTGCCGTTCTCAAGTTCCCTCGTC
TCCCTCTGCCTGGCTCAACTCAGAGGCCAACTACTGTGAAGTGAACCCAGCGTTTCCACAGGCTGCGGC
AGGGGAGCAAAGCTACCTCATGTGCCAGGGAAGCCACACAGAAGTCTCACAGCCAAGCAGAATGAGG
GCACAGTCCCGGAAGTCTGGCGTCAACTACTTGATCCTTGATGATGATGACAGGGAAGACCTGGGA
ACCTGCGGCAGCTCAGATGGAGAAGGGGAGTGGGACAAGGGCGAGTTTGTGACGCCCTCCTGGAGACT
GTCTCCTCCTTACAGCCCAACGAGTTTGTGATCAAAGTTCCTTCCCTGAGAATAAGCCCTGGAACAG
CAATGTTGAAACGTGAAAAGAAGTGTTCACCAACAACGACCCCAAGGTCATCGCCAGCAGTACTGAG
CATGGACTGCAGGGTTGCTAGGATACTTGGAGTCTCTGAAGAGATGAGGAGGAACATGGGGTGAGCTCA
GGCCTGGAAGTCAATACCTTGCCTCACGGACACCAGCTGCGCCTGGACATAATTGAAAGACACAACAA
TGGCCATCGGCATTGCAGTGGACATTCTGGGATGCACGGGCACTTTGGAGGACCGAGCGGCCACTCTGAG
TAAGATCATCCAGGTGGCGGTGGAAGTGAAGGATTCATGGGGACCTCTATTCTTCTCAGCTCTCATG
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AAACTGCCATTCTATGAGAAACAGCTGAAGCCCTTACGAAACTCCTGCATGAAGGCAGAGAGTCCAC
ATGTGTTCCCAACAATGTATCAGTCCCACTGCTGATGCCGCTTGTGACGTTAATGGAGCGCCAGGCT
GTGACTTTTGAAGGAACCGACATGTGGGAAAAAACGACCAGAGCTGTGAAATCATGCTGAACCATTTGG
CAACAGCGGATTCATGGCCGAGGCTGCAGACAGTACCAGGATGAATGCTGAGAGGATCCTGGCAGGTTT
TCAACCAGATGAAGAAATGAATGAAATCTGCAAGACTGAATTTCAAATGCGATTGCTATGGGGCAGCAA
GGTGCACAAGTCAATCAGACAGAGAGATATGAGAAATTCACACAGATTTAACTGCCCTCTCGCGTAAAT
TGAACCTCCTCTGTAAGCAGGCAGAGCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234795 representing NM_001261410
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MPKECSAFHALSAALCCFYHRKSFIVKFSKERHIMDRTPPEKLLKKELEEELLSSSEDLRSHAWYHGRIPR
 QVSENLVQRDGDFLVRDSLSSPGNFVLTCQWKNLAQHFKNRNTVLRLEAAYSRVQYQFEMESFDSIPGLV
 RCVYVGNRRPISQQSGAIIIFQPINRTVPLRCLLEEHYGTSPGQAREGSLTKGRPDVAKRLSLTMGGVQAREQ
 NLPGRNLLRNKEKSGSQPACLDHMQDRRALSLKAHQSESYLPIGCKLPPQSSGVDTSPCPNSPVFTGSE
 PALSPAIVRRVSSDARAGEALRGSDSQLCPKPPPKPCKVPFLKVPSSPSAWLNSEANYCELNPAFATGCG
 RGAKLPSCAQGSHTELLTAKQNEAPGPRNSGVNYLILDDDRERPEWEPAAAQMEKGQWDKGEFVTPLEET
 VSSFRPNFEFSKFLPPENKPLETAMLKRAKELFTNNDPKVIAQHVLSDMCRVARILGVSEEMRRNMGVSS
 GLELITLPHGHLRLDIIERHNTMAIGIAVDILGCTGTLEDRAATLSKIIQVAVELKDSMGDLYSFSALM
 KALEMPQITRLEKTWTALRHQYTQTAILYEKQLKPFKLLHEGRESTCVPPNNVSVPLLMPLVTLMERQA
 VTFEGTDMWEKNDQSCEIMLNHLATARFMAEAADSYRMAERILAGFQPDEEMNEICKTEFQMRLWGSK
 GAQVNTERYEKFNQILTALSRKLEPPPVKQAEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001261410

ORF Size: 2202 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:

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_001261410.2](#)

RefSeq Size: 2893 bp

RefSeq ORF: 2205 bp

Locus ID: 8412

UniProt ID: [O75815](#)

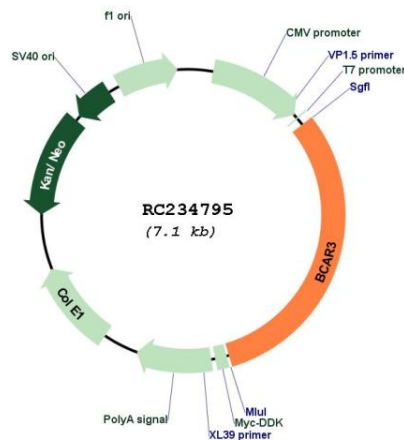
Cytogenetics: 1p22.1

Protein Families: Druggable Genome

MW: 82.8 kDa

Gene Summary: Breast tumors are initially dependent on estrogens for growth and progression and can be inhibited by anti-estrogens such as tamoxifen. However, breast cancers progress to become anti-estrogen resistant. Breast cancer anti-estrogen resistance gene 3 was identified in the search for genes involved in the development of estrogen resistance. The gene encodes a component of intracellular signal transduction that causes estrogen-independent proliferation in human breast cancer cells. The protein contains a putative src homology 2 (SH2) domain, a hall mark of cellular tyrosine kinase signaling molecules, and is partly homologous to the cell division cycle protein CDC48. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]

Product images:



Circular map for RC234795