

Product datasheet for **RG234795**

BCAR3 (NM_001261410) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCAR3 (NM_001261410) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BCAR3
Synonyms:	AND-34; MIG7; NSP2; SH2D3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234795 representing NM_001261410
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTAAGGAATGCAGTGCTTTCCACGCCCTCTCAGCAGCTCTGTGCTGTTCTATCACCGCAAGTCTT
 TCATTGGAGTCAAGTTCTCCAAGGAGAGGCACATCATGGACAGGACCCCGAGAACTGAAGAAGGAGCT
 GGAGGAGGAGCTGCTCCTGAGCAGCGAGGACCTGCGCAGCCATGCCTGGTACCACGGCCGCATCCCCGA
 CAGGTGTCTGAAAACCTTGTGCAGCGAGATGGTGACTTCTAGTTCGTGACTCTCTGTCCAGCCCTGGGA
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 GGACGGTGCCTCTGCGGTGCCTGGAGGAGCATTATGGCACCTCCCAGGCCAGGCCCGGGAGGGCAGCCT
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 AATTTGCCAGGGGAAACCTCCTCAGAAACAAAGAAAAGAGTGGTAGCCAGCCCGCTGCCTGGATCACA
 TGCAGGACAGAAGAGCCTTGTCCCTCAAAGCCACCAGTCAGAGAGCTACCTGCCGATTGGCTGCAAGCT
 GCCACCTCAGTCTCGGGTGTGGACACAAGCCCTGCCAAAACCTCACCTGTGTTCAAGACGGGAAGCGAG
 CCTGCCCTGAGCCAGCAGTGGTTCGGAGGGTCTCCTCAGACGCCAGGGCTGGGGAGGCGCTGAGGGGAT
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 TCCCTCTGCTGGCTCAACTCAGAGGCCAACTACTGTGAAGTGAACCCAGCGTTTCCACAGGCTGCGGC
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 TCAACCAGATGAAGAAATGAATGAAATCTGCAAGACTGAATTTCAAATGCGATTGCTATGGGGCAGCAA
 GGTGCACAAGTCAATCAGACAGAGAGATATGAGAAATTCACCCAGATTTAACTGCCCTCTCGCGTAAAT
 TGAACCTCCTCTGTAAGCAGGCAGAGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234795 representing NM_001261410
 Red=Cloning site Green=Tags(s)

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MPKECSAFHALSAALCCFYHRKSFIVKFSKERHIMDRTPPEKLLKKELEEELLSSEDLRSHAWYHGRIPR
QVSENLVQRDGFVLRDSLSSPGNFVLTQWKNLAQHFKNRNTVLRLESEAYSRVQYQFEMESFDSIPGLV
RCYVGNRRRPIISQSGAIIIFQPINRTVPLRCLLEEHYGTSPGQAREGSLTKGRPDVAKRLSLTMGGVQAREQ
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PALSPAVVRRVSSDARAGEALRGSDSQLCPKPPPKPCKVPFLKVPSSPSAWLNSEANYCELNPAFATGCG
RGAKLPSCAQGSHTELLTAKQNEAPGPRNSGVNYLILDDDRERWPPEAAQMEKQWQDKGFVTPPLET
VSSFRPNFEFESKFLPPENKPLETAMLKRAKELFTNNDPKVIAQHVLSDMCRVARILGVSEEMRRNMGVSS
GLELITLPHGHLRLDIIERHNTMAIGIAVDILGCTGTLEDRAATLSKIIQVAVELKDSMGDLYSFSALM
KALEMPQITRLEKTWTALRHQYTQTAILYEKQLKPFKLLHEGRESTCVPPNNVSVPLLMPLVTLMERQA
VTFEGTDMWEKNDQSCEIMLNHLATARFMAEAADSYRMAERILAGFQPDEEMNEICKTEFQMRLWGSK
GAQVNTQTERYEKFNQILTALSRKLEPPPVKQAEI
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

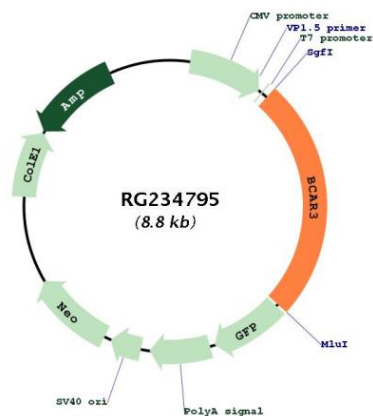
UniProt ID: [O75815](#)

Cytogenetics: 1p22.1

Protein Families: Druggable Genome

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 RG234795