

## Product datasheet for **SC324095**

### BCAR3 (NM\_003567) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BCAR3 (NM_003567) Human Untagged Clone
Tag:	Tag Free
Symbol:	BCAR3
Synonyms:	AND-34; MIG7; NSP2; SH2D3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_003567.2  
 CCACGCGTCCGGCGTCCCAGCTCCGGGAGCAGCCGCGGCGGGCGGTGCGAGGCCGGC  
 CGCGCGGCGCCTTTGAGCCCCAGCCGGAGTCCAGAGATCCTGAGAGCCCAGCGCCCAG  
 CGCCGCGCGGGAGAGTTGAGAATTATGGCTGCAGGAAAATTTGCAAGCCTTCCCAGAAA  
 CATGCCGGTGAATCACCAGTTCCCCCTGGCCTCATCCATGGACCTTCTGAGCAGCAGGTC  
 CCCTCTCGCTGAGCATCGCCAGATGCCTATCAAGATGTGTCTATACATGGCACCTTCC  
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 GAGCCCATGGCAGGACCGGCACGGCGAAACCTTACCTTCAGGGATCCACATCTTCTGGA  
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 GAAACTGAAGAAGGAGCTGGAGGAGGAGCTGCTCCTGAGCAGCGAGGACCTGCGCAGCCA  
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 GAAGAACCTCGCTCAGCACTTCAAAATCAACCGGACAGTTCTGCGACTCAGCGAGGCCTA  
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 CTGGGTGTGGACACAAGCCCCTGCCAAACTCACCTGTGTTTCAAGGAGGGAAGCGAGCC  
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 GAACCCAGCGTTTGCCACAGGCTGCGGCAGGGGAGCAAAGCTACCCTCATGTGCCAGGG  
 AAGCCACACAGAAGTCTCACAGCCAAGCAGAATGAGGCGCCAGTCCCCGGAACCTGTG



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TCTTTTGTGAAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** ECoRI-NOT
- ACCN:** NM\_003567
- 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\\_003567.2](#), [NP\\_003558.1](#)

RefSeq Size:	3184 bp
RefSeq ORF:	2478 bp
Locus ID:	8412
UniProt ID:	<a href="#">O75815</a>
Cytogenetics:	1p22.1
Domains:	SH2, RasGEF
Protein Families:	Druggable Genome
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein (isoform 1).</p>