

## Product datasheet for **RC234937**

### **BCAR3 (NM\_001261409) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | BCAR3 (NM_001261409) 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:

>RC234937 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCTGCAGGAAAATTTGCAAGCCTTCCAGAAACATGCCGGTGAATCACCAGTTCCTCCCTGGCCTCAT  
CCATGGACCTTCTGAGCAGCAGGTCCTCCTCGCTGAGCATCGCCAGATGCCTATCAAGATGTGTCTAT  
ACATGGCACCTTCCACGGAAGAAAAAGGTCCTCCTCCATAAGGTCCTGTGATGACTTCAGTCACATG  
GGCACCTCCCCACTCCAAATCCCACGGCAGAACTCGCTGTGACCCAGGATGGCATCCAGGAGAGCC  
CATGGCAGGACCGGCACGGCGAAACCTTACCTTCAGGGATCCACATCTTCTGGACCCAACGTGGAATA  
TGTGAAGTTCTCCAAGGAGAGGCACATCATGGACAGGACCCCGAGAACTGAAGAAGGAGCTGGAGGAG  
GAGCTGCTCTGAGCAGCGAGGACCTGCGCAGCCATGCCTGGTACCACGGCCGCATCCCCGACAGGTGT  
CTGAAAACCTTGTGACGCGAGATGGTGACTTCTAGTTCGTGACTCTGTCCAGCCCTGGGAACCTTGT  
CCTGACCTGTGAGTGAAGAACCTCGCTCAGCACTTCAAATCAACCGGACAGTTCTGCGACTCAGCGAG  
GCCTACAGCCCGCTGCAGTACCAGTTCGAGATGGAGAGCTTCGACTCCATCCCCGGCCTGGTGGCCTGT  
ACGTGGGCAACCGCCGGCCCATCTCCAGCAGAGTGGCGCCATCATCTTCCAGCCATCAACAGGACGGT  
GCCTCTGCGGTGCCTGGAGGAGCATTATGGCACCTCCCCAGGCCAGGCCCGGGAGGGCAGCCTACCAAG  
GGAAGGCCGGATGTGGCCAAGAGGCTGAGCCTCACCATGGGTGGCGTCCAGGCCGAGAGCAGAATTTGC  
CCAGGGGAAACCTCCTCAGAAACAAAGAAAAGAGTGGTAGCCAGCCCGCTGCCTGGATCACATGCAGGA  
CAGAAGAGCCTTGTCCCTCAAAGCCCACAGTCAGAGAGCTACCTGCCGATTGGCTGCAAGCTGCCACCT  
CAGTCTCGGGTGTGGACACAAGCCCTGCCAACTCACCTGTGTTGAGGACGGGAAGCGAGCCTGCC  
TGAGCCACAGTGGTTCCGAGGGTCTCCTCAGACGCCAGGGCTGGGGAGGCGCTGAGGGGATCAGACAG  
TCAACTGTGCCCTAAGCCCGCCTAAGCCCTGCAAGGTGCCGTTCCCTCAAGGTTCCCTCGTCTCCCTCT  
GCCTGGTCAACTCAGAGGCCAACTACTGTGAAGTGAACCCAGCGTTTGGCACAGGCTGCGGCAGGGGAG  
CAAAGCTACCCTCATGTGCCAGGGAAGCCACACAGAAGTGTACAGCCAAGCAGAATGAGGCGCCAGG  
TCCCCGAACTCTGGCGTCAACTACTTGATCCTTGATGATGATGACAGGGAAAGACCTTGGGAACCTGCG  
GCAGCTCAGATGGAGAAGGGCAGTGGGACAAGGGCGAGTTTGTGACGCCCTCCTGGAGACTGTCTCT  
CCTTCAGGCCAACGAGTTTGTGCAAAGTTCCTTCCCCCTGAGAATAAGCCCTGGAAACGCAATGTT  
GAAACGTGAAAAGAAGTGTTCACCAACAACGACCCCAAGGTATCGCCAGCACGTAAGTACTGAGCATGGAC  
TGCAGGGTTGCTAGGATACTTGGAGTCTCTGAAGAGATGAGGAGGAACATGGGGGTGAGCTCAGGCTGG  
AACTCATTACCTTGCCTACGGACACCAGCTGCGCCTGGACATAATTGAAAGACACAACAATGGCCAT  
CGGCATTGCAGTGGACATTTCTGGATGCACGGGCACTTTGGAGGACCGAGCGGCCACTCTGAGTAAGATC  
ATCCAGGTGGCGGTGGAAGTGAAGGATCCATGGGGGACCTTATTCCTTCTCAGCTCTCATGAAAGCCC  
TGGAAATGCCACAGATCACAAGTTAGAAAAGACGTGGACTGCTCTGCGGCACCAGTACACCCAACTGC  
CATTCTATGAGAAACAGCTGAAGCCCTTCAAGAACTCCTGCATGAAGGCAGAGATCCACATGTGTT  
CCCCAAACAATGTATCAGTCCCACTGCTGATGCCGCTTGTGACGTTAATGGAGCGCCAGGCTGTGACTT  
TTGAAGGAACCGACATGTGGGAAAAAACGACCAGAGCTGTGAAATCATGCTGAACCATTTGGCAACAGC  
GCGATTCATGGCCGAGGCTGCAGACAGCTACCGGATGAATGCTGAGAGGATCCTGGCAGGTTTTCAACCA  
GATGAAGAAATGAATGAAATCTGCAAGACTGAATTTCAAATGCGATTGCTATGGGGCAGCAAAGGTGCAC  
AAGTCAATCAGACAGAGAGATATGAGAAATTAACCCAGATTTTAACTGCCCTCTCGCTAAATTGGAACC  
TCCTCCTGTAAGCAGGCAGAGCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234937 protein sequence  
Red=Cloning site Green=Tags(s)

MAAGKFASLPRNMPVNHQFPLASSMDLLSSRSPLAEHRPDAYQDVSIHGTLPRKKKGPPPIRSCDDFSHM  
GTLPHSKSPRQNSPVTQDGIQESPWQDRHGETTFTRDPHLLDPTVEYVKFSKERHIMDRTPKLLKKELEE  
ELLLSSEDLRSHAWYHGRIPRQVSENLVQRDGFVLRDSLSSPGNFVLTQWKNLAQHFKINRTVLRLE  
AYSRVQYQFEMESFDSIPGLVRCYVGNRRPISQQSGAIIFQPINRTVPLRCL EEHYGTSPGQAREGSLTK  
GRPDVAKRLSLTMGGVQAREQNLPRGNLLRNKEKSGSQPACLDHMQDRRALSLKAHQSESYLPIGCKLPP  
QSSGVDTSPCPNSPVFRTGSEPALSPAVVRRVSSDARAGEALRGSDSQLCPKPPPKCKVPFLKVPSSPS  
AWLNSEANYCELNPAFATGCGRGAKLPSCAQGSHTELLTAKQNEAPGPRNSGVNYLILDDDDRRERPWEPA  
AAQMEKGQWDKGEFVTPLETVSSFRPNEFESKFLPPENKPLETAMLKRAKELFTNNDPKVIAQHVL SMD  
CRVARILGVSEEMRRNMGVSSGLELITLPHGQLRLDIIERHNTMAIGIAVDILGCTGTLEDRAATLSKI  
IQVAVELKDSMGDLYSFSALMKALEMPQITRLEKTWTALRHQYTQTAILYEKQLKPFKLLHEGRESTCV  
PPNNVSVPLLMPLVTLMERQAVTFEGTDMWEKNDQSCEIMLNHLATARFMAEAADS YRMNAERILAGFQP  
DEEMNEICKTEFQMRLWGSKGAQVNTERYEKFNQILTALSRKLEPPPVKQAE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6140\\_g03.zip](https://cdn.origene.com/chromatograms/mk6140_g03.zip)

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001261409

**ORF Size:** 2475 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\\_001261409.1](#), [NP\\_001248338.1](#)

**RefSeq Size:** 3226 bp

**RefSeq ORF:** 2478 bp

**Locus ID:** 8412

**UniProt ID:** [O75815](#)

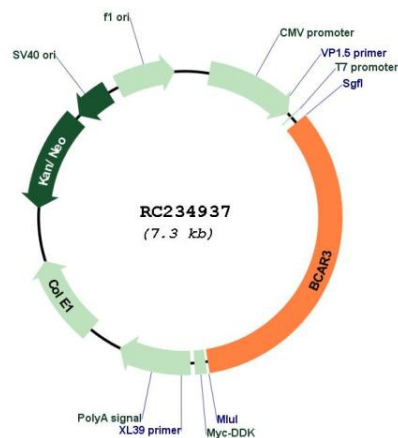
**Cytogenetics:** 1p22.1

**Protein Families:** Druggable Genome

**MW:** 92.6 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 RC234937