

## Product datasheet for **SC315282**

### BRCA1 (ARID4B) (NM\_031371) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BRCA1 (ARID4B) (NM_031371) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARID4B
Synonyms:	BCAA; BRCA1; RBBP1L1; RBP1L1; SAP180
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_031371, the custom clone sequence may differ by one or more nucleotides

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ATGAAGGCCCTTGATGAGCCTCCCTATTTGACAGTGGGCACTGATGTGAGTGCTAAATAC
AGAGGAGCCTTTGTGAAGCCAAGATCAAGACAGCAAAAAGACTTGTCAAAGTCAAGGTG
ACATTTAGACATGATTCTTCAACAGTGGAGTTTCAGGATGACCACATAAAGGCCCACTA
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AAACCACCATTTTCAGACAAATCCATCTCCTGAAATGGTATCCAACTGGATCTCACTGAT
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ACAGCTGCTGTTATGTTAACTTTAGCTGAACCGTCAATGTCCAGGCATCACAAAATGGA
ATGTCAGTTGAGTGCAGG
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_031371
- 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\\_031371.2](#), [NP\\_112739.2](#)

**RefSeq Size:** 5807 bp

**RefSeq ORF:** 3681 bp

**Locus ID:** 51742

**UniProt ID:** [Q4LE39](#)

**Cytogenetics:** 1q42.3

**Domains:** ARID, TUDOR

**Gene Summary:** This gene encodes a protein with sequence similarity to retinoblastoma-binding protein-1. The encoded protein is a subunit of the histone deacetylase-dependant SIN3A transcriptional corepressor complex, which functions in diverse cellular processes including proliferation, differentiation, apoptosis, oncogenesis, and cell fate determination. The gene product is recognized by IgG antibody isolated from a breast cancer patient and appears to be a molecular marker associated with a broad range of human malignancies. Alternate transcriptional splice variants encoding different isoforms have been characterized. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks an alternate exon compared to variant 1 but maintains the reading frame. The resulting protein (isoform 2) is shorter than isoform 1.