

Product datasheet for SC114306

BRCA1 (ARID4B) (NM_016374) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRCA1 (ARID4B) (NM_016374) Human Untagged Clone
Tag:	Tag Free
Symbol:	BRCA1
Synonyms:	BCAA; BRCA1; RBBP1L1; RBP1L1; SAP180
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_016374, the custom clone sequence may differ by one or more nucleotides

ATGAAGGCCCTTGATGAGCCTCCCTATTTGACAGTGGGCACTGATGTGAGTGCTAAATACAGAGGAGCCT
 TTTGTGAAGCCAAGATCAAGACAGCAAAAAGACTTGTCAAAGTCAAGGTGACATTTAGACATGATTCTTC
 AACAGTGGAAAGTTCAGGATGACCACATAAAGGGCCCACTAAAGGTAGGAGCTATTGTGGAAGTGAAGAAT
 CTTGATGGTGCATATCAGGAAGCTGTTATCAATAAACTAACAGATGCGAGTTGGTACACTGTAGTTTTTG
 ATGACGGAGATGAGAAGACACTGAGACGATCTTCACTGTGCTGAAAGGAGAGAGGCATTTTGCTGAAAG
 TGAAACATTAGACCAGCTCCCACTACCAACCCTGAGCATTTTGGCACTCCAGTCATAGGAAAGAAAACA
 AATAGAGGAAGAAGATCTAATCATATACCAGAGGAAGAGTCTTCATCATCCTCCAGTGATGAAGATGAGG
 ATGATAGGAAACAGATTGATGAGCTACTAGGCAAAGTTGTATGTGTAGATTACATTAGTTTGGATAAAAA
 GAAAGCACTGTGGTTTCCTGCATTGGTGGTTTGTCTGATTGTAGTGATGAGATTGCTGTAAAAAAGGAC
 AATATTCTTGTTTCGATCTTTCAAAGATGGAAAATTTACTTCAGTTCCAAGAAAAGATGTCCATGAAATTA
 CTAGTGACACTGCACCAAGCCTGATGCTGTTTTAAAGCAAGCCTTTGAACAGGCACTTGAATTTCAACA
 AAGTAGAACTATTCCTGCTAACTGGAAGACTGAATTGAAAGAAGATAGCTCTAGCAGTGAAGCAGAGGAA
 GAAGAGGAGGAGGAAGATGATGAAAAAGAAAAGGAGGATAATAGCAGTGAAGAAGAAGAAGAAATAGAAC
 CATTTCCAGAAGAAAGGAGAACTTTCTTCAGCAATTGTACAAATTTATGGAAGATAGAGGTACACCTAT
 TAACAAACGACCTGTACTTGGATATCGAAATTTGAATCTCTTTAAGTTATTGAGACTGTACACAACTT
 GGAGGATTTGATAATATTGAAAGTGGAGCTGTTTGGAAACAAGCTACCAAGATCTTGGAAATCCCTGTCT
 TAAATTGAGCTGCAGGATACAATGTTAAATGTGCTTATAAAAAAATACTTATATGTTTTGAGGAGTACTG
 TAGATCAGCCAACATTGAATTTGAGATGGCATTGCCAGAGAAAGTTGTTAACAAGCAATGTAAGGAGTGT
 GAAAATGTAAAAGAAATAAAAGTTAAGGAGGAAAATGAAACAGAGATCAAAGAAATAAAGATGGAGGAGG
 AGAGGAATATAATACCAAGAGAAGAAAAGCCTATTGAGGATGAAATTGAAAGAAAAGAAATATTAAGCC
 CTCTCTGGGAAGTAAAAAGAATTTATTAGAATCTATACCTACACATTCTGATCAGGAAAAAGAAGTTAAC
 ATTAATAAACAGAGAAGACAATGAAAATCTGGATGACAAAGATGATGACACAAGTGGGTAGATGAATCCC
 TCAACATAAAGGTAGAAGCTGAGGAAGAAAAGCAAAATCTGGAGATGAAACGAATAAAGAAGAAGATGA


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AGATGATGAAGAAGCAGAAGAGGAGGAGGAGGAGGAAGAAGAAGAGGATGAAGATGATGATGACAAC
AATGAGGAAGAGGAGTTTGTGCTATCCACCAGGCATGAAAGTCCAAGTGCAGTATGGACGAGGAAAA
ATCAAAAAATGTATGAAGCTAGTATTAAGATTCTGATGTCGAAGGTGGAGAGGTCTTTACTTGGTGCA
TACTGCGGATGGAATGTGAGATACGATGAATGGATTAAGCAGATAAAATAGTAAGACCTGCTGATAAA
AATGTGCCAAAGATAAAACATCGGAAGAAAATAAAGAATAAATTAGACAAAGAAAAAGACAAAGATGAAA
AATACTCTCCAAAACTGTAACTTCGGCGCTTGTCCAAACCACCATTCAGACAAATCCATCTCCTGA
AATGGTATCCAACTGGATCTCACTGATGCCAAAACTGATACTGCTCATATTAAGTCCATAGAAATT
ACTTCGATCCTTAATGGACTTCAAGCTTCTGAAAGTTCTGCTGAAGACAGTGAGCAGGAAGATGAGAGAG
GTGCTCAAGACATGGATAATAATGGCAAAGAGGAATCTAAGATTGATCATTTGACCAACAACAGAAATGA
TCTTATTTCAAAGGAGGAACAGAACAGTTCATCTTTGCTAGAAGAAAAACAAAGTTCATGCAGATTTGGTA
ATATCCAAACCAGTGTCAAAATCTCCAGAAAGATTAAGGAAAGATATAGAAGTATTATCCGAAGATACTG
ATTATGAAGAAGATGAAGTCACAAAAAGAGAAAGGATGTCAAGAAGGACACAACAGATAAATCTTCAA
ACCACAAATAAACCGTGGTAAAAGAAGGTATTGCAATACAGAAGAGTGTCTAAAACTGGATCACCTGGC
AAAAAGGAAGAGAAGGCCAAGAACAAGAAATCACTTTGCATGGAAAACAGTAGCAACAGCTCTTCAGATG
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ATCTCTACGACAACCTGGTTTCTATTTCAGGATTTTCAGAAGTGGCAGAAAAAGGATTAACTTTTAAAT
AACTCTGATGAAAGACTTCAAAACAGCAGGGCCAAAGATCGAAAAAGATGTCTGGTCAAGTATTCAGGGAC
AGTGGCCTAAAAAACGCTGAAAGAGCTTTTTTTCAGACTCTGATACTGAGGCTGCAGCTTCCCCACCGCA
TCCTGCCCCAGAGGAGGGGGTGGCAGAGGAGTCACTGCAGACTGTGGCTGAAGAGGAGAGTTGTTACCC
AGTGTAGAAGTAGAAAAACACCTCCAGTCAATGTGATAGTAACCCATTGAAGAAAAACAGTAGAGG
TCAATGACAGAAAAGCAGAAATTTCAAGTAGTGGCAGTAATTCAGTGCTAAATACCCCTCCTACTACACC
TGAATCGCCTTCATCAGTCACTGTAAACAGAAGGCAGCCGGCAGCAGTCTTCTGTAAACAGTATCAGAACCA
CTGGCTCCAAACCAAGAAGAGGTTTCAAGTATCAAGAGTGAAACTGATAGCACAATTGAGGTGGATAGTG
TTGCTGGGGAGCTCCAAGACCTCCAGTCTGAAGGGAATAGCTCGCCAGCAGGTTTTGATGCCAGTGTGAG
CTCAAGCAGTAGTAATCAGCCAGAACAGAACATCCTGAAAAAGCCTGTACAGGTGAGAAAAAGTGA
GATGCTCAGGGAGGAGGAAGTTCATCAAAAAAGCAGAAAAAGCCATAAAGCAACAGTGGTAAACAACA
AAAAGAAGGGAAAAGGCACAAATAGTAGTGATAGTGAAGAACTTTCAGCTGGTGAAGTATAACTAAGAG
TCAGCCAGTCAAATCAGTTTCCACTGGAATGAAGTCTCATAGTACCAAATCTCCCGCAAGGACGAGTCT
CCAGGAAAATGTGGAAGAATGGTGATAAGGATCCTGATCTCAAGGAACCCAGTAATCGATTACCCAAAG
TTTACAAATGGAGTTTTTTCAGATGTCGGACCTGGAAAAATGACAAGTGCCGAACGCATCACAATTCTTCA
AGAAAACTTCAAGAAATCAGAAACATTATCTGTCATTAAAATCTGAAGTAGCTTCCATTGATCGGAGG
AGAAAGCGTTTTAAAGAAGAAAGAGAGAGAAAGTGTGCTACATCCTCATCCTCCTTTCACCTTCATCCA
GTTCCATAACAGCTGCTGTTATGTTAATTTAGCTGAACCGTCAATGTCCAGCGCATCAGAAATGGAAT
GTCAGTTGAGTGCAGGTGA

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_016374 unedited
CATCGCCGCCGCTCTCTGGAGGGCAGCGGATTGGGGGCCCGACCTCCAGTCCGGGGGG
GATTTTTTCGTCGTCCTCCCTCCCTCCCAACAGGGAGCCCGAGCGGCCCAACAAAGGTA
CCAGTCGCGCGCCGCGGGAGGAGGAGGAGCCGAGCCTCTGCCTTCAGCAGCCGCTGGACC
CGCCGCCCTTCTTCCCATCTCTCCNCCGGGCTGNTGGTTTTGGGGGGGAGAAAGGAGA
GAGGGGACTCTGGACGTGCCAGGGTCAGATCTGCCTCCGAGGAAGGTGCAGCTGAACCT
GGTGTTTTAGAGGATACCTTGGTCCCAGAGTCATCATGAAGGCCCTTGAGAGCCTCCCTA
TTTGACAGTGGGCACTGATGTGAGTGCTAAATACAGNAGGAGCCNTTTTGTGAAGCCAAG
ATCAAGACAGCAANAGACTTGTCAAGATGAAGGTGACATTTAGACATGATTTTNCACA
GTGGGAAGTTTCAGGATGACCCCCCTTAAAGGGCCCCCTAAAAGTAAGGAGCTTATTGGGNN
AAGGAAAAAATTTGANGNGCATAAATCAGGAAGCTGTTAT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_016374 unedited <pre> TTGAACCAAGGCCGCTTCTATGATCGTTAAACTCTTTTTTTTTTTTTTTTTTTT TTTTTTAAGGATTACAAACTATGGCCTTTATTTCAAAGCCTTGCTTACATTGGGAC AATATATTACATAATTCTTCATTGGTGGCAGATCCTAATATATACTTTATAGCTTTATT CTATAAGCTTTTTTCTTGACCATTTTGGTGAGAACAAATGCTTTGCAGCGGCTGTGCAAA TGTGAATAACGTTGAAACGCTTGGGCCACGGATGCGGTGCTGAGGGGAGCCCTACCGA ACCGCCCGCGCTTCTTCTCAGGTGCCCCCTCCGCCCGGTTCCGCTCCCCCCCCCTCTCC TCTCCCCCCCCCCCCCCCCCTTCCCGCTCTGCCCGCCCCCTCCCTCCCCCTCCCCC GGTCCCCCCCCCTCGTTGTTCCGTCCCCGTCTTCTCTCCCCCCCCCGCCACCCCTTTC CCCCACCCCTCCCGCCTCTCTCTCGCGCCACACCTCGTCCCCCGCACCCCTCAC CGCCCCGCGCTCACCCCTCCCTCTCTCTCCCCACCCCGCCCCCTCCCCACCCCTC CCTCCGGGCCGTCCACCGCCGCTTTGTGGCGCGCCCCACCGCCCCCTCGTCCCTC CCGGCTCCCAATTCCACGAGCTACCTCCGTCCACACCTCGCTCATGCGCTTCTG CTCGTGTGACTGACTGTCCCGCCAGGCGCCATGGCGAGAGTCGTCTTTCTATTCACTC AATACCCCGCCCTCTTCTCTTTACCGTAGCACAGCTCGAGTCTCCGAGTGCGA TCGTGCGTATCCGAGCGAGGCATATCTCACCTCACGCGTGCTCCCTGCCCTCCCCCA CCGCCACCGCTCACCCCGCCACCCCGCCACCTCGCTCCACTCCCATCACACCCAGC GACGCTATAGTTACAGGCTCTCTGTCCCCGCCGANTGGTNCCTACCTGACGCCAA CCAAC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_016374
Insert Size:	5700 bp
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).
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:	<u>NM_016374.4</u> , <u>NP_057458.4</u>
RefSeq Size:	6067 bp
RefSeq ORF:	3939 bp
Locus ID:	51742
UniProt ID:	<u>Q4LE39</u>
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 (1) represents the longest transcript and encodes the longer isoform (1). Variants 1 and 3 encode the same isoform.