

Product datasheet for **SC210971**

BRCA2 (NM_000059) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	BRCA2 (NM_000059) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	BRCA2
Synonyms:	BRCC2; BROVCA2; FACD; FAD; FAD1; FANCD; FANCD1; GLM3; PNCA2; XRCC11
ACCN:	NM_000059
Insert Size:	1528 bp



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Insert Sequence: >SC210971 3'UTR clone of NM_000059
 The sequence shown below is from the reference sequence of NM_000059. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GACACAATTACAATAAAAAATATATCTAAGCATTGCAAAGCGACAATAAATTATTGACGCTTAACC
TTTCCAGTTTATAAGACTGGAATATAATTTCAAACACACATTAGTACTTATGTTGCACAATGAGAAAA
GAAATTAGTTTCAAATTTACCTCAGCGTTTGTGTATCGGGCAAAAATCGTTTTGCCCGATTCCGTATTG
GTATACTTTTGCTTCAGTTGCATATCTTAAAACTAAATGTAATTTATTAATAATCAAGAAAAACATCT
TTGGCTGAGCTCGGTGGCTCATGCCTGTAATCCCAACACTTTGAGAAGCTGAGGTGGGAGGAGTGCCTG
AGGCCAGGAGTTCAAGACCAGCCTGGGCAACATAGGGAGACCCCATCTTACAAGAAAAAAGG
GGAAAAAGAAAATCTTTAAATCTTTGGATTTGACTACTACAAGTATTATTTACAAGTAAATAAACAT
ACCATTTTCTTTAGATTGTGCATTAATGGAATGAGGTCTCTTAGTACAGTTATTTGATGCAGATA
ATTCTTTTAGTTTAGCTACTATTTTAGGGATTTTTTTTAGAGGTAACCTACTATGAAATAGTTCTCC
TTAATGCAAAATAGTTGGTTCTGCTATAGTTCCATCCTGTTCAAAAGTCAGGATGAATATGAAGAGTGG
TGTTTTCTTTGAGCAATTCTTCATCCTTAAGTCAGCATGATTATAAGAAAAATAGAACCCTCAGTGTA
ACTCTAATTCCTTTTACTATTCCAGTGTGATCTCTGAAATTAATTACTTCAACTAAAAATCAAATA
CTTTAAATCAGAAGATTCATAGTTAATTTATTTTTTTTTTCAACAAAATGGTCAATCCAACTCAAAT
TGAGAAAAATCTTGCTTCAAATGGCACTGATTCTGCCTGCTTTATTTTTAGCGCTATCACAGGACC
CAGAGCCTATGCCCTTTTAACTTACCACAAAAGCAGAAGATTAATTAATTAAGATGATACTCTCAT
TTGTTACGTCCTTTTTTTTTTTTTTTGGAGATGGAGTCTTGCTTTGTCGCCCATGCTGGAGTGCAGTGG
CATGATCCTGGCTCACTGCAGCCTCCACTTCCCGGGTTCACGTAATTCTCCACCTCAAGCCTCCCTAG
TAGCTGGGATTACAGGGACGCACCACCATGCCAGCTAATTTTTGCATTTTTAGTAGAGACTGGGTTTT
ACCATGTTGGCAAGCTGGTCTCAAACCTCTGATGTCAGGTGATCCATCTGCCTCAGCCTCCCAAAGTG
CTGGGATTATAGGCGTGAGCCACTGTGCCCGCCAATATTTGTTACTTTCTTAGGTTTAATAGAGAAAA
GGGATAAAACATTTCTAACTGGGAGTTAATGTCATGGAGAAGGTCTTAAATCAGATGTTTTAATGCCTT
AAATGTCTGTATAATATCATGTTTTCAAATCTAATTATAAATACGTTTAAAGCCAAGAATAAATCTTTT
AAAAAATTGA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_000059.4](#)

Summary:

Inherited mutations in BRCA1 and this gene, BRCA2, confer increased lifetime risk of developing breast or ovarian cancer. Both BRCA1 and BRCA2 are involved in maintenance of genome stability, specifically the homologous recombination pathway for double-strand DNA repair. The largest exon in both genes is exon 11, which harbors the most important and frequent mutations in breast cancer patients. The BRCA2 gene was found on chromosome 13q12.3 in human. The BRCA2 protein contains several copies of a 70 aa motif called the BRC motif, and these motifs mediate binding to the RAD51 recombinase which functions in DNA repair. BRCA2 is considered a tumor suppressor gene, as tumors with BRCA2 mutations generally exhibit loss of heterozygosity (LOH) of the wild-type allele. [provided by RefSeq, May 2020]

Locus ID:

675

MW:

59.5