

Product datasheet for RC400499

BRCA2 (NM_000059) Human Mutant ORF Clone

Product data:

OriGene Technologies, Inc.

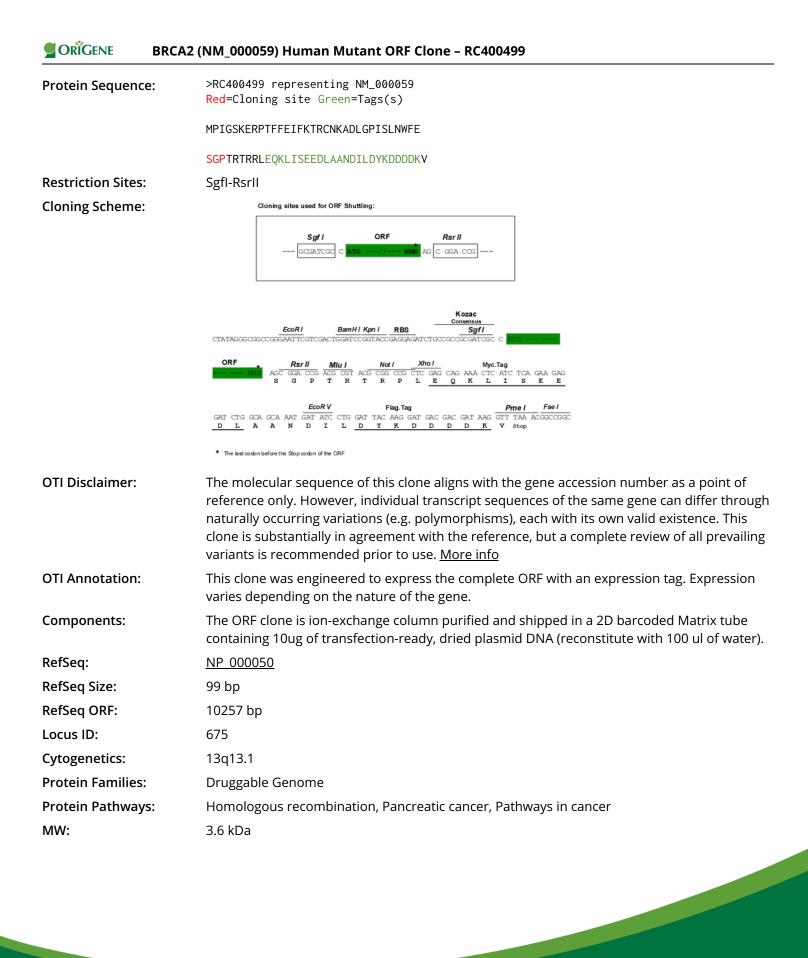
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Product Type:	Mutant ORF Clones
Product Name:	BRCA2 (NM_000059) Human Mutant ORF Clone
Mutation Description:	E34X
Affected Codon#:	34
Affected NT#:	100
Nucleotide Mutation:	BRCA2 Mutant (E34X), Myc-DDK-tagged ORF clone of Homo sapiens breast Cancer, early onset (BRCA2) as transfection-ready DNA
Effect:	Breast cancer
Symbol:	BRCA2
Synonyms:	BRCC2; BROVCA2; FACD; FAD; FAD1; FANCD; FANCD1; GLM3; PNCA2; XRCC11
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_000059
ORF Size:	99 bp
Restriction Sites:	SgfI-RsrII
ORF Nucleotide Sequence:	<pre>>RC400499 representing NM_000059 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGCCTATTGGATCCAAAGAGAGGCCAACATTTTTGAAATTTTTAAGACACGCTGCAACAAAGCAGATT TAGGACCAATAAGTCTTAATTGGTTTGAA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC TGGATTACAAGGATGACGACGA TAAGGTTTAA



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SRCA2 (NM_000059) Human Mutant ORF Clone – RC400499

Gene 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]

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