

Product datasheet for **SC318089**

BRME1 (NM_024323) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRME1 (NM_024323) Human Untagged Clone
Tag:	Tag Free
Symbol:	BRME1
Synonyms:	C19orf57; MEIOK21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC318089 representing NM_024323.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACTAAGAGGAAGAAGCTGCGGACCTCAGGAGAGGGACTCTGTCTCCAAAACCCCTAAAGAACCCA
AGGCTAGGAGACTTCTATGGGACCCCCAGAGTTCCATGTTGGGCTGTTTACATCACCTGAGGAGCCA
GAGGGCAAATTGGGACCTGTTCCCTCTACACAGCAGCACGGGGAGGAACAGGAAGGCCGTCTCCAGC
TCCCTGATGAGGAAACAGGATCTCCCTGCCGGCTCTCCGTCAACCAGAAAAGGAGCCAGCTCCCTT
CCTCCTTCCAGAACTATTGCGGAGGTTTGTTCCTCCAGTTTGCAAAATCCAGGAAGACAGTGACAAGA
AAAGAAGAGATGAAGGATGAGGACCGTGGGAGTGGGGCTTTAGCCTGGAACAATCGCAGAGTCCAGC
GCCAGAGTCCAGGATGCCAGCTGCTAGTGAGACCTGGGGTCCCCCTCCAGGAGGCCACGGAGCTG
GGGACCCAACGCAGGCAGACAGTGCCCGCCTGAGCAGAGCAGCCAGAGCCCTGTGCAGGCGGTGCC
GGCAGTGGGATTCTCAGCTGATGACCTCCAGACAGGGGACGGGTTGTCCGCTCACAGAGGGCC
AGCCAAGACCACCTGTGACAACAAGGGGCGATGACAGCAAGCCTGAGACAGACAGGTTCCAGGTGAC
GGTGGCCAAAAGGAACACCTACCAAGCATTGATTCTGAAGGGGAGAAGCCAGACAGAGGAGCCCCCAG
GAGGGAGGGGCCAAAGGACAGCAGGGGCTGGCCTGCCTGGAGGGCCCCAGGAGGAGGAGACGGTGTC
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CCCACTGAGCTGGAAGAGAGGGCTCTGGAGGTGGCTGGGCCGATGGGCAGGCCAGTGCCATATCACCT
GCCTCTCCAGGAGGAAGGCCGCTGATGGAGGCCACAGGAGGGCCTTGCCAGGCTGCACCTCGCTCACT
GGGGAACACAGGAGAAAGTGGGAGGCAGGGCAGGATGGCAAGCCCCCGCGATGCTCTAGTGGGC
CCTACAGCCTCCCTGGCTCTGGCACCTGGGAGCGGAGATCCATGATGGGTGCTGGAGATTCCGGTCAT
GCATCCCCGACACAGGTCCATGTGTCAATCAGAAGCAGGAGCCAGGTCTGCTCAAGAGGAAGCCGAG
TTAGGTGGCCAGAACCTCGAACGAGACCTCGAGGGGTTCCGTGTGTCCCCGCAAGCCTCTGTTGTCTG
GAACACAGAGAAATAGCAGACGACCTCTCCAGGAGCCCGGGGCTCAGCAGGGCATTCCAGACACCACC
TCAGAGCTGGCAGGGCAGCGAGACCACCTGCCTCATTCTGCAGACCAGGGCACCTGGGCAGACTCTTTA
GCTGTGGAACCTGACTTCTGCTGGACAGCCAGATACAGGATGCCCTGGACGCCTCTGACTTCGAAGCC
CCACCTGAGCAGCTTTTCTTTCGGGAACAAGCCGGGCCCTTGCTGGCCGGGCCCCAGCTCACATGCC
AATGGAGACCCTGTTGCACTGGCCAAGGCCAGCCGAGCCGGCTGATCATGGGCACCCACGGGACCTG
GAAGCTTTCAAGCGCCTTAACCTACCGGAAGACAAGCTGGGAGGCAAAGCCCCCTGCCTTACCCTTCC
AAGGGGCTGGGAATATCCCTCGAGGGGACCCACCCTGGAGGGAGTTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-MluI

ACCN: NM_024323

Insert Size: 1914 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).

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:	<u>NM_024323.3</u>
RefSeq Size:	2420 bp
RefSeq ORF:	1914 bp
Locus ID:	79173
UniProt ID:	<u>Q0VDD7</u>
Cytogenetics:	19p13.12
MW:	66.2 kDa
Gene Summary:	Meiotic recombination factor component of recombination bridges involved in meiotic double-strand break repair. Modulates the localization of recombinases DMC1:RAD51 to meiotic double-strand break (DSB) sites through the interaction with and stabilization of the BRCA2:HSF2BP complex during meiotic recombination. Indispensable for the DSB repair, homologous synapsis, and crossover formation that are needed for progression past metaphase I, is essential for spermatogenesis and male fertility.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) differs in the 5' UTR and coding sequence and lacks an alternate in-frame exon compared to variant 1. The resulting isoform (3) is shorter at the N-terminus and lacks an alternate segment in the C-terminus compared to isoform 1.