

Product datasheet for **SC328918**

BRIT1 (MCPH1) (NM_001172575) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	BRIT1
Synonyms:	BRIT1; MCT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC328918 representing NM_001172575.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGCCCCCATCTGAAAGATGTAGTGGCCTATGTTGAAGTGTGGTCATCCAATGGAACAGAAAAT
TATTCAAAGACATTTACAACACAGCTTGTGGATATGGGGCAAAGTTTCAAAAACCTTTAACAACAA
GTAACCTCACGTTATCTTCAAAGATGGCTACCAGAGCACTTGGGACAAAGCTCAGAAGAGAGGCGTAAAG
CTCGTTTCGGTGCTCTGGGTGGAAGAAATGCAGGACAGCTGGAGCACACATTGATGAATCATTGTTCCCT
GCAGCTAATATGAATGAACACTTATCAAGCCTAATTAACAAAAACGTAATGTATGCAGCCCAAGAT
TTTAATTTTAAACACCCAGAAAATGATAAGAGATTTTCAAGAAAATTTGAGAAAATGGCTAAGAGCTA
CAAAGGCAAAAAACAAATCTAGCTTCCCAATGATTCAGCAGTCTCATGATAATCCAAGTAACCTCTCG
TGTGAAGCACCTTTGAACATTTACGTGATACTTTGTGTTGAGTGAATACTTTGCTGGTGGCTTACAC
TCATCTTTTGATGATCTTTGTGAACTCAGGATGTGGAATCAGGAAAGGAAGTTGGAAGGATCCATT
AATGACATTAAGGTGATGTGTGATTTTCTCACTTGATTGAAAGCAAATAATATTCATTATCACCA
TCTTTCACTCACCTCGATAAATCAAGTCTCAGAAATTTCTGAGTAATCTTTCAAAGGAAGAAATAAC
TTGCAAGAAATATTGCAGTAAAGTAGTACCCCTGACCAAAAGCAGGCTGCAGGTATGTCTCAGGAG
ACGTTTGAAGAGAAGTATCGTTTGTCTCTACCTATCTTCAACAAAAGGCCACCTTTTGATACATTCA
AGACCCAGGAGTTCCTCAGTAAAGAGAAAAAGAGTATCACATGGCTCCCATTCACCTCCGAAGGAAAA
TGCAAGAGAAAGAGGAGCACCAGGAGATCTATCATGCCGAGGCTGCAGCTGTGCAGGTGCGGAAGACAGG
CTGCAGCACGTGGCGGACCTGCCCTGGAGGCTCTAGCTGTGGGAGTCTTCATATGATGACTATTTT
TCACCTGATAATCTTAAGGAAAGGTATTCAGAGAATCTTCTCTGAATCTCAGCTGCCATCAAGCCCT
GCTCAGTTGAGTGCAGAAGTCTTTCTAAGAAGGAGAGAACAAGCATATTTGAAATGTCTGATTTTCC
TGCGTTGGCAAAAAACCAGAACAGTTGACATTACCAATTTACAGCAAAAACCATCTCCAGTCTCGG
AAAACCTGGAATGGTGAAGGCCGTGCAACTTCGAGTTGCGTGACTTCTGCCCCTGAAGAAGCCCTAAGG
TGTTGTAGACAGGCTGGGAAAGACGCATGCCAGAGGGAATGGCTTTTCTACACCATTTGAGGAC
CCTGCTCTTCCAAAGGACATGATGATGATTTAACTCCTTTGGAAGGAAGCCTTGAAGAAATGAAAGAA
GCGGTTGGTCTGAAAAGCACACAGAACAAAGGTACCACTTCCAAATATCAAACTCCTCTGAAGGCGAA
GCCCAGAGTGAACATGAGCCATGTTTTATAGTTGACTGTAAATGAGAGCGTCTACAGAAGAGAAGGAA
AACTTACCCGAGGATACAGTGAAGTATGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGGC
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Restriction Sites:

SgfI-MluI

ACCN:

NM_001172575

Insert Size:

1689 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001172575.1</u>
RefSeq Size:	3629 bp
RefSeq ORF:	1689 bp
Locus ID:	79648
UniProt ID:	<u>Q8NEM0</u>
Cytogenetics:	8p23.1
MW:	62.3 kDa
Gene Summary:	This gene encodes a DNA damage response protein. The encoded protein may play a role in G2/M checkpoint arrest via maintenance of inhibitory phosphorylation of cyclin-dependent kinase 1. Mutations in this gene have been associated with primary autosomal recessive microcephaly 1 and premature chromosome condensation syndrome. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2010] Transcript Variant: This variant (3) lacks an in-frame exon in the 5' coding region, and differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (3) has a distinct C-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.