

Product datasheet for **SC311118**

BRIT1 (MCPH1) (NM_024596) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BRIT1 (MCPH1) (NM_024596) Human Untagged Clone
Tag:	Tag Free
Symbol:	BRIT1
Synonyms:	BRIT1; MCT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_024596 edited
 ATGGCGGCCCCATCCTGAAAG::: :TGGCCTATGTTGAAGTGTGGTCATCCAATGGA
 ACAGAAAATTATTCAAAGACATTTACAACACAGCTTGTGGATATGGGGGCAAAGGTTTCA
 AAAACTTTTAAACAAACAAGTAACTCACGTTATCTTCAAAGATGGCTACCAGAGCACTTGG
 GACAAAGCTCAGAAGAGAGGCGTAAAGCTCGTTTCGGTGTCTGGGTTGAAAAATGCAGG
 ACAGCTGGAGCACACATTGATGAATCATTGTTCCCTGCAGCTAATATGAATGAACACTTA
 TCAAGCCTAATTAATAAAAAACGTAATGTATGCAGCCAAAGATTTTAAATTTTAAAAACA
 CCAGAAAATGATAAGAGATTTTCAAGAAATTTGAGAAAATGGCTAAAGAGCTACAAAGG
 CAAAAACAAATCTAGATGATGATGTACCTATTCTTATTTGAATCTAATGGTTCATTA
 ATATATACTCCACAATTGAAATTAATAGTAGTCACCACAGCGCAATGGAGAAGAGATTA
 CAAGAGATGAAGGAGAAAAGGAAAAATCTTTCCCCACCTCTTCCCAAATGATTCAGCAG
 TCTCATGATAATCCAAGTAACTCTCTGTGTGAAGCACCTTTGAACATTTACAGTGATACT
 TTGTGTTCCAGATGAATACTTTGCTGGTGGCTTACACTCATCTTTTGTATGATCTTTGTGGA
 AACTCAGGATGTGAAAATCAGGAAAGGAAGTTGGAAGGATCCATTAATGACATTAAGT
 GATGTGTGATTTCTTCACTTGTATTGAAAGCAAATAATTCATTCATCACCATCTTTC
 ACTCACCTCGATAAATCAAGTCCTCAGAAAATTTCTGAGTAATCTTTCAAAGGAAGAAATA
 AACTTGCAAAGAAATATTGCAGGTAAAGTAGTCACCCCTSACCAAAGCAGGCTGCAGGT
 ATGTCTCAGGAGACGTTTGAAGAGAAGTATCGTTTGTCTCCTACCTTATCTTCAACAAAA
 GGCCACCTTTTGTATACATTCAAGACCCAGGAGTTCCTCAGTAAAGAGAAAAAGAGTATCA
 CATGGCTCCCATTCACCTCCGAAGGAAAAATGCAAGAGAAAGAGGAGCACCAGGAGATCT
 ATCATGCCGAGGCTGCAGCTGTGCAGGTCGGAAGRCAGGCTGCAGCACGTGGCGGACCT
 GCCCTGGAGGCTCTTAGCTGTGGGAGTCTTCATATGATGACTATTTTACCTGATAAT
 CTTAAGGAAAGGTATTCAGAGAATCTTCTCCTGAATCTCAGCTGCCATCAAGCCCTGCT
 CAGTTGAGCTGCAGAAGTCTTTCTAAGAAGGAGAGAAACAAGCATATTTGAAATGTCTGAT
 TTTTCTGCGTTGGCAAAAAACCAAGAACGTTGACATTACCAATTTACAGCAAAAAACC
 ATCTCCAGTCTCGAAAACTGGAAATGGTGAAGGCCGTGCAACTTCGAGTTGCGTGACT
 TCTGCCCTGAAGAAGCCCTAAGGTGTTGTAGACAGGCTGGGAAAGAAGACGCATGCCCA
 GAGGGAATGGCTTTTCTTACACCATTGAGGACCCTGCTCTTCCAAAAGGACATGATGAT
 GATTTAACTCCTTTGGAAGGAAGCCTTGAAGAAATGAAAGAAGCGGTTGGTCTGAAAAGC
 ACACAGAACAAAGGTACCACTTCCAAAATATCAAACCTCTGAAAGCGAAGCCAGAGT
 GAACATGAGCCATGTTTTATAGTTGACTGTAACATGGAGACGCTACAGAAGAGAAGGAA
 AACTTACC CGGAGGATACAGTGGAGGTGTTAAAAATAGACCAACAAGGCATGATGTTTTA
 GATGACTCATGTGACGGCTTTAAGGACCTCATCAAACCTCATGAGGAATTGAAGAAAAGT
 GGGAGAGGCAAAAAGCCAACAAGAACATTAGTCATGACAAGCATGCCATCTGAAAAGCAG
 AATGTCGTATCCAGGTTGTGGATAAATTGAAAGGCTTTTCAATTGCACCAGACGCTGTG
 GAGACCAGACTCACGTGCTTCCGGGAAGCCACTTCGCACCCTGAATGTGCTGTGGGA
 ATTGCCGTTGGTGTGGGTTCTCTTATGATTGGGTGCTATGGTCTTTAGAAATGGGT
 CACTGGATTTCTGAGGAGCCGTTCAACTGTCTCACCCTTCCCTGCAGCTCCCTGTGC
 CGAAGCGAGTGCCACTTGTCTGCAGGGCCGTACCGCGGAACCCTTTTCCCGACCAGCCA
 GCGATGTTTGTCTCGCCTGCCAGCAGCCCCCAGTGGCCAAGCTCTGTGAACTAGTCCAC
 CTGTGCGGAGGCCGGTTCAGCAAGTCCCCCGCCAGGCCAGCATCGTCATCGGGCCCTAC
 AGCGGAAAGAAGAAAGCCACAGTCAAGTATCTGTCTGAGAAATGGGTCTTAGATTCCATC
 ACCCAGCACAAAGGTCTGTGCCCTGAAAACCTATTGTACAATGA

Restriction Sites: Please inquire
ACCN: NM_024596
Insert Size: 4700 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:	The ORF of this clone has been fully sequenced and found to be a good match to NM_024596.1 except for 6bp deletion at 5' and one 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:	<ol style="list-style-type: none"> 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_024596.1, NP_078872.1</u>
RefSeq Size:	2518 bp
RefSeq ORF:	2223 bp
Locus ID:	79648
UniProt ID:	<u>Q8NEM0</u>
Cytogenetics:	8p23.1
Domains:	BRCT
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1, also known as MCPH1-FL) encodes 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.</p>