

## Product datasheet for **SC328980**

### **BRIT1 (MCPH1) (NM\_001172574) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BRIT1 (MCPH1) (NM_001172574) Human Untagged Clone
Tag:	Tag Free
Symbol:	BRIT1
Synonyms:	BRIT1; MCT
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001172574, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCCCCCATCCTGAAAGATGTAGTGGCCTATGTTGAAGTGTGGTCATCCAATGGA
ACAGAAAATTATTCAAAGACATTTACAACACAGCTTGTGGATATGGGGGCAAAGTTTCA
AAAACTTTTAACAAACAAGTAACTCACGTTATCTTCAAAGATGGCTACCAGAGCACTTGG
GACAAAAGCTCAGAAGAGAGGCGTAAAGCTCGTTTTCGGTGCTCTGGGTGGAAAAATGCAGG
ACAGTGGAGCACACATTGATGAATCATTGTTCCCTGCAGCTAATATGAATGAACACTTA
TCAAGCCTAATTAACAAAAAACGTAATGTATGCAGCCAAAGATTTTAAATTTTAAACA
CCAGAAAATGATAAGAGATTTTCAAGAAATTTGAGAAAATGGCTAAAGAGCTACAAAGG
CAAAAAACAAATCTAGATGATGATGTACCTATTCTTATTTGAATCTAATGGTTCATTA
ATATATACTCCCACAATTGAAATTAATAGTAGTCACCACAGCGCAATGGAGAAGAGATTA
CAAGAGATGAAGGAGAAAAGGAAAAATCTTTCCCCACCTCTTCCCAAATGATTCAGCAG
TCTCATGATAATCCAAGTAACTCTCTGTGTGAAGCACCTTTGAACATTTACGTGATACT
TTGTGTTTCAAGTAACTCTCTGTGTGAAGCACCTTTGAACATTTACGTGATACT
AACTCAGGATGTGAAATCAGGAAAGGAAGTTGGAAGGATCCATTAATGACATTAAGT
GATGTGTGATTTCTTCACTTGTATTGAAAGCAAATAATATTCATTCATCACCATCTTTC
ACTCACCTCGATAAATCAAGTCCTCAGAAATTTCTGAGTAACTTTCAAAGGAAGAAATA
AACTTGCAAGAAATATTGCAGGTAAAGTAGTCACCCCTGACCAAAAGCAGGCTGCAGGT
ATGTCTCAGGAGACGTTTGAAGAGAAGTATCGTTTGTCTCCTACCTTATCTTCAACAAAA
GGCCACCTTTTGTATACATTCAAGACCCAGGAGTTCCTCAGTAAAGAGAAAAAGAGTATCA
CATGGCTCCCATTACCTCCGAAGGAAAAATGCAAGAGAAAGAGGAGCACCAGGAGATCT
ATCATGCCGAGGCTGCAGCTGTGCAGGTGGAAGACAGGCTGCAGCACGTGGCGGGACCT
GCCCTGGAGGCTTTAGCTGTGGGGAGTCTTCATATGATGACTATTTTTACCTGATAAT
CTTAAGGAAAGGTATTCAGAGAATCTTCTCCTGAATCTCAGCTGCCATCAAGCCCTGCT
CAGTTGAGCTGCAGAAGTCTTTCTAAGAAGGAGAGAACAAGCATATTTGAAATGTCTGAT
TTTTCTGCGTTGGCAAAAAACCAGAACAGTTGACATTACCAATTTACAGCAAAAAACC
ATCTCCAGTCTCGAAAACTGGAAATGGTGAAGGCCGTGCAACTTCGAGTTGCGTGACT
TCTGCCCTGAAGAAGCCCTAAGGTGTTGTAGACAGGCTGGGAAAGAAGACGCATGCCCA
GAGGAAATGGCTTTTCTTACACCATTGAGGACCCTGCTTCCAAAAGGACATGATGAT
GATTTAACTCCTTTGGAAGGAAGCCTTGAAGAAATGAAAGAAGCGGTTGGTCTGAAAAGC
ACACAGAACAAAGGTACCACTTCCAAAAATCAAACCTCTGAAAGCGAAGCCAGAGT
GAACATGAGCCATGTTTTATAGTTGACTGTAACATGGAGACGTCTACAGAAGAGAAGGAA
AACTTACCCGGAGGATACAGTGAAGTATGTGA

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- Restriction Sites:** Please inquire
- ACCN:** NM\_001172574
- 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:** [NM\\_001172574.1](#), [NP\\_001166045.1](#)

**RefSeq Size:** 3773 bp

**RefSeq ORF:** 1833 bp

**Locus ID:** 79648

**UniProt ID:** [Q8NEM0](#)

**Cytogenetics:** 8p23.1

**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 (2, also known as MCPH1deltae9-14) differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (2) 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.