

## Product datasheet for **SC127044**

### BRP44L (MPC1) (NM\_016098) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BRP44L (MPC1) (NM_016098) Human Untagged Clone
Tag:	Tag Free
Symbol:	BRP44L
Synonyms:	BRP44L; CGI-129; MPYCD; SLC54A1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127044 sequence for NM_016098 edited (data generated by NextGen Sequencing) ATGGCGGGCGGTTGGTGCGGAAAGCGGCGGACTATGTCCGAAGCAAGGATTTCCGGGAC TACCTCATGAGTACGCACTTCTGGGGCCCAGTAGCCAAGTGGGGTCTTCCATTGCTGCC ATCAATGATATGAAAAAGTCTCCAGAGATTATCAGTGGGCGGATGACATTTGCCCTCTGT TGCTATTCTTTGACATTCATGAGATTTGCCTACAAGGTACAGCCTCGGAACTGGCTTCTG TTTGCATGCCACGCAACAATGAAGTAGCCAGCTCATCCAGGGAGGGCGGCTTATCAA CACGAGATGACTAAAACGGCATCTGCATAA

Clone variation with respect to NM\_016098.2



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_016098 unedited GGGCGGTTCAGAAATTTGTAATACGAACTCACTATAGGGCGGCCGCGATTCCGGCACCAGGC AGAGGCAGGGACCACTCGGGGTCTGGTGTCCGGCACAGCCATGGCGGGCGCGTTGGTGCGG AAAGCGGCGGACTATGTCCGAAGCAAGGATTTCCGGGACTACCTCATGAGTACGCACTTC TGGGGCCAGTAGCCAAGTGGGGTCTTCCCATTGCTGCCATCAATGATATGAAAAAGTCT CCAGAGATTATCAGTGGGCGGATGACATTTGCCCTCTGTTGCTATTCTTTGACATTCATG AGATTTGCCTACAAGGTACAGCTCGGAAGTGGCTTCTGTTTGCATGCCACGCAACAAAT GAAGTAGCCAGCTCATCCAGGGAGGGCGCTTATCAAACACGAGATGACTAAAACGGCA TCTGCATAACAATGAAAAAGGAAGAACAAGGTCTTGAAGGGACAGCATTGCCAGCTGCTG CTGAGTACAGATTTTATTATAAATAGCCTCCCTAAGGAAAATACACTGAATGCTATTTT TACTAACCATTCTATTTTATAGAAATAGCTGAGAGTTTCTAAACCAACTCTCTGCTGCC TTACAAGTATAAATATTTTACTTCTTTCCATAAAGAGTAGCTCAAATATGCAATTAAT TTAATACTTTCTGATGATGGTTNTATCTGCAGTAATATGTATATCATCTATTAGAATTTA CTTAATGAAAACTGAAGAGAACANAATTTGTAACCACTAGCACTTAAGTACTCCTGATT CTTAACATTGTCTTTAATGACCACAAGACAACCAACAGCTGGCCACGTACTTAANAATTT GTCCNCACTGTTAAAAATGTACCTGTGTANTTCATGCAGTTATATATTGAGATGCTGTA ACTAN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_016098
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_016098.1</a> , <a href="#">NP_057182.1</a>
<b>RefSeq Size:</b>	988 bp
<b>RefSeq ORF:</b>	330 bp
<b>Locus ID:</b>	51660
<b>UniProt ID:</b>	<a href="#">Q9Y5U8</a>
<b>Cytogenetics:</b>	6q27
<b>Domains:</b>	UPF0041

**Gene Summary:**

The protein encoded by this gene is part of an MPC1/MPC2 heterodimer that is responsible for transporting pyruvate into mitochondria. The encoded protein is found in the inner mitochondrial membrane. Defects in this gene are a cause of mitochondrial pyruvate carrier deficiency. Several transcript variants, some protein coding and one non-protein coding, have been found for this gene. [provided by RefSeq, Aug 2012]

Transcript Variant: This variant (1) encodes the longer isoform (1).