

## Product datasheet for **SC101587**

### **MBOAT1 (AK056323) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MBOAT1 (AK056323) Human Untagged Clone
Tag:	Tag Free
Symbol:	MBOAT1
Synonyms:	HCCS1; hVps53L; PCH2E; pp13624
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 AK056323, the custom clone sequence may differ by one or more nucleotides

```
GGGATTTGCGCCACTGCACTCCAGCCTGGGTGACGGAGCGAGACCCCTTCTCAAAAAGTTTTTCAGGATAGA
GGAATTTTCCTTAAAATCCATAAAAACCTTGTAAACAGCCGTACAGTAGGAATAAGGTTTGAAATCTGCCTG
GAAACCTGATTTCTCATCCCCACCTTGTTCCTCAACATAAACCAGTCTGTGCCCTGCCCTCTCTGC
CAGGCTTTCTCCCGATGCCGTCCAGCTCTGATCCTGAGTGCATTTCTCATCGGCTTCCAGGCTGCC
TTGCTAGCTGGTTTGACTCTCACGCATCAAGCGTCTCAAATTTGAGAATGCGGAGGAGAAAAAGAAGTGT
GCGAGAAGGAGGTGCGGCCTTCAGTTGAGGTCTATTAGGAAAAGATTCCAAATAAGACAAGGGCGGGGGG
CGGCAGTCGGGAGAGCCCCAGGAAGCCCTGTAGATGCCCCACCCAGCCCATGGAGTTGCTATGGTTA
AGCAGCCTGAGCCGTACAGTTGAAAAGGGGCGGTGGGGCCATCTCCAAATAGCACAGCCAGTTCAGCCG
TCTGTCTCAACCCAGGAGAGCTGGGAAAGCCAGTGGACTCCTGCACCTGGTTCTTGTCACTCCTGGCGT
TTGTGTACAGATCACCCTTCTTTTTGGTTCATTGTTGAGGAGTCGTTTTCCGGACGGCTCCATCACA
GCATTGAGCTATCAAGCTGCTGTTTTCCACAGTTGGTGGTCACAGCCAGGGAAGTTGCTGTCTTGATTTG
TTACATTGTCAGTAATCCCAAGGAACCAATGGATGTCAGTAGGAGTTTCTGTTAAATGTCTCCTTGATG
GGGACTCAGTACTGTGTAGAGACGCTGTGTTTCTTCTGGGGGTGTGCATCAGAACCCTGGGGCCTTT
TAAAATCTACAGATGCCGGCCGGGCGCCGTGGCTCACGCCTGGAATCCCAGCACTTGGGGAGGCTGAGGC
GGGCGGATCACAAGCGCAGGAAATTGAGACCATCCTTGCCAATATGGTGAACCCCATCTCTACAAAAAA
TACAAAAATTACCGGGGTGTGGTGGCGTGCACACCTCCAGCTACTTGGGAGGCTGAGGCGGGGAGAAATCG
CTTGAACCCGGGAGGCGAAGATTGCAGTGAGCCGAGATCGCGCCACTGCACTCCAGCCTGGCGACAGAGT
GAGACTGTCTCAAAAACAAACAAAAAACAGATGCCCGGAGATTTTGTAGTCAGTAAGTTGGATGGGGC
CTGGCATACAGGTTTAAAAGTTCCATAGGTAGTTATAACGTTTACACCTTGTTAAGAACCCTGCAACAG
AGAGATTTGCTTTATGGAAGGGCTCCTGCCACGCATTTTCATACATGTCTATTTTTCTGACTCTAAGCTA
AAAGTGCGCCGACACTACACTTGAGCTGGTGCCAACGTGGTGAAGATTCTCTACTGATAACAGCTTTCAT
TTTAAACTTGTGTTGGGTGAGGCGCGTGGCTCACGCCTGTAATCCCAGCACTTGGGAGGCGGAGGTGG
GCGGATCACATGAGGTCACGAGTTTGGACCAGCCTGGCCAACATGGCAAAATCCCATCTCTACTAAAAA
TACAAAAAAGCAGGCGAGGTGGCGGGTGCCTGTGGTCCCAGCTACTTGGGAGGCTGAG
GCAGGGGAATCAGTTGAATCCGGGAGGCGGAGTTGCAGTGGGCCGGGTCCCAGCACTGCACTCCAGCC
TGGGAGACAGAGTGAGACTCAGT
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for AK056323 unedited

```
GCATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGACAGAGCGAGA
CCCCTTCTCAAAAAGTTTTTCAGGATAGAGGAAATTTCTTAAAATCCATAAAAACCTTGTA
CAGCCGTACAGTAGGAATAAGGTTTGAAATCTGCCTGGAAACCTGATTTCTCATCCCC
ACCTTGTTCCTCAACATAAACCAGTCTGTGCCCTGCCCTCTCTGCCAGGCTTTCTCC
CCGATGCCGTCCAGCTCTGATCCTGAGTGCATTTCTCATCGGCTTCCAGGCTGCCTT
GCTAGCTGGTTTGACTCTCACGCATCAAGCGTCTCAAATTTGAGAATGCGGAGGAGAAAA
GAAGTGTGCGAGAAGGAGGTGCGGCCTTCAGTTGAGGTCTATTAGGAAAAGATTCCAAA
TAAGACAAGGGCGGGGGGCGGCAGTCGGGAGAGCCCCAGGAAGCCCTGTAGATGCCCC
ACCCAGCCATGGAGTTGCTATGGTTAAGCAGCCTGAGCCGTACAGTTGAAAAGGGGCG
GTGGGGCCATCTCCAAATAGCACAGCCAGTTCAGCCGTCTGTCTCAACCCAGGAGAGC
TGGGAAAGCCAGTGGACTCCTGCACCTGGTTCTTGTCACTCCTGGCGTTTGTGTACAGAT
CACCCTTCTCTTTTTGGTTCATTGTTGAGGAGTCGTTTTCCGGACGGCTCCATCACAGC
ATTGAGCTATCAAGCTGCTGTTTTCCACAGTTGGTGGTCACAGCCAGGGAAGTGCCTGTC
TTGATTTGTTACATTGTAGTAATCCCCAGGAACCAATGGATGTCAGTANNGAGTTCTTG
TAATGTCTNCTTGATGGNGACTCANTACTGTGTAGAGACGCTGTGTTNCTCTCTGGNGGT
GTGCATCAGAACCCTGGGCCTTTTAAATCTACGATGCNGNCGGGGCGCGTGGCTACGCC
TGAATCCAGACTTGGNGAGCTGNAGCGGCGGATACAGCGCAGAATGAAA
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for AK056323 unedited GGTACACTATGNACCGCGCCGAATCTATATCGAGTTTTTTTTTTTTTTTTTTGTATTTT TAGTAGAGATGGGATTTTGCCATGTTGGCCAGGCTGGTCTCAAACCTCGTGACCTCATGTG ATCCGCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCTGAC CCAACACAAGTTAAAAATGAAAGCTGTTATCAGTAGAGAATCTTCACCACGTTGGCACCA GCTCAAGTGTAGTGTGGCGCACCTTTAGCTTATAGTCAGAAAAATAGACATGTATGAAA ATGCGTGGCAGGAGCCCTCCATAAAGCAAATCTCTCTGTTGCAAGTGGTCTTAACAAGG TGTAACGTTATAACTACCTATGGAACCTTTAAACCTGTATGCCAGGCCCATCCAAACT TACTGACTCAAAATCTCCGGGCATCTGTTTTTTTGTGTTTTGAGATAGAGTCTCACTC TGTGCGCCAGTGGGAGTGCANTGGCGTGATCTCGGCTCACTGCAATCTTTGCCTCCCGGG TTCAAGCGATTCTCTGCCCCAGCCTCCAAGTAGCTGGGAGGTGTGCACGCCACCACAC CCCGGTAATTTTTGTATTTTTTGTAAAGATGGGGTTTCACCATATTGGCAAGGATGGTCT CAATTTCTGCGTTGTGATCCGGCCGACTCAGCCTCCCAGTGTGGGATTCCAGGCCT GAGCCAAGGGCCCGGCCGATCTGTAGATTTTAAAGGCCCGTGGGTCTTATGCACAC CCCCAGAGAGAAACACAACGTCTCTCCAGTACTGGGTCCCTTCAGGGGACCTTTACAC AAACTCCACTTGCCTCTTTGTTTCTGGGGATTCCGGAAATGGAACAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK056323
<b>Insert Size:</b>	1750 bp
<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="#">AK056323.1</a>
<b>RefSeq Size:</b>	1774 bp
<b>RefSeq ORF:</b>	1774 bp
<b>Locus ID:</b>	154141
<b>Cytogenetics:</b>	6p22.3
<b>Protein Families:</b>	Transmembrane

**Gene Summary:**

This gene belongs to the membrane-bound O-acetyltransferase superfamily. The encoded transmembrane protein is an enzyme that transfers organic compounds, preferably from oleoyl-CoA, to hydroxyl groups of protein targets in membranes. A translocation disrupting this gene may be associated with brachydactyly syndactyly syndrome. Alternately spliced transcript variants have been described for this gene. [provided by RefSeq, Nov 2012]