

## Product datasheet for **SC127034**

### HCCS (NM\_005333) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HCCS (NM_005333) Human Untagged Clone
Tag:	Tag Free
Symbol:	HCCS
Synonyms:	CCHL; LSDMCA1; MCOPS7; MLS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127034 sequence for NM_005333 edited (data generated by NextGen Sequencing)

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ATGGGTTTGTCTCCATCTGCTCCTGCTGTTGCAGTTCAGGCCCTCAAATGCTTCAGCGTCC
CCACCTTCAGGATGCCCGATGCATGAAGGAAAAATGAAAGGCTGTCCAGTGAATACAGAG
CCATCTGGCCCAACCTGTGAGAAGAAAACATACTCTGTGCCTGCCACCAGGAACGCGCC
TATGAGTACGTGGAGTGTCCATTAGGGGCACTGCGGCTGAGAATAAGGAGAACCTAGAT
CCTTCAAATCTGATGCCACCACCAAATCAAACACCAGCTCCAGATCAGCCATTTGCATTG
TCTACTGTCAGAGAAGAGTCATCCATTCCGAGAGCAGATTCAGAGAAAAAGTGGGTTTAC
CCTTCTGAGCAGATGTTCTGGAATGCAATGTTAAAGAAAGGTGGAAGTGAAGGATGAG
GATATCAGTCAGAAGGATATGTATAATATCATTAGAATTCACAATCAGAATAACGAGCAG
GCTTGAAGGAGATTTTGAAGTGGGAAGCCCTTCATGCTGCAGAGTGCCTTGTGGTCCA
TCATTGATCCGGTTTGGAGGAAAGCAAAAGAGTATTCACCAAGGGCACGAATTCGTTCC
TGGATGGGGTATGAGTTGCCTTTTATAGGCACGATTGGATCATAAACCGTTGCGGGACA
GAAGTTAGATATGTGATTGATTATTATGATGGTGGTGAAGTCAACAAGGACTACCAAGTTC
ACCATCCTGGACGTCCGTCCTGCCTTAGATTCACTTTCGGCAGTATGGGACAGAATGAAA
GTCGCTTGGTGGCGTTGGACCTCGTAA
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Clone variation with respect to NM\_005333.4



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<b>5' Read Nucleotide Sequence:</b>	<pre>&gt;OriGene 5' read for NM_005333 unedited NNTTGTANATTTTGTATACGACTACTATAGGCGGCCGGAATTCGCACGAGGAAGGCG GTACCGGCCTCCCGNACAGCCCGGGGAGGGCTTAGGTGCAGAAAGGCAGGCTGGCCGC GGCCGGTTTGGTCTGGGGACCACGGGCTGGAGCAGGTGGAATTTAAATTTGTTTACAGT CAACACTGTTTCCAGCCATGGGTTTGTCTCCATCTGCTCCTGCTGTTGCAGTTCAGGCCT CAATAGCTTCAGCGTCCCACCTTCAGGATGCCCGATGCATGAAGGAAAAATGAAAGGCT GTCCAGTGAATACAGAGCCATCTGGCCCAACCTGTGAGAAGAAAAACATACTCTGTGCCTG CCCACCAGGAACCGCCTATGAGTACGTGGAGTGTCCATTAGGGGCACTGCGGCTGAGA ATAAGGAGAACCTAGATCCTTCAAATCTGATGCCACCACAAATCAAACACCAGTCCAG ATCAGCCATTTGCATTGTCTACTGTGAGAGAAGAGTCATCCATTCGAGAGCAGATTCAG AGAAAAAGTGGGTTTACCCTTCTGAGCAGATGTTCTGGAATGCAATGTTAAAGAAAGGT GGAAGTGAAGGATGAGGATATCAGTCAGAAGGATATGTATAATATCATTAGAATTCACA ATCAGAATAACGAGCAGGCTTGAAGGAGATTTTGAAGTGGGAAGCCCTTCATGCTGCAG AGTGTCTTGTGGTCCATCATNTGATNCCGGTTTGGAGGAAAGCANAGAGTATTCACCA AGGCACGAATTTCTTCTGGATGGGGTATGANNTGCCTTTTATAGCACGAATGGATCAT ANACCCGTGCGGNACAGAAGTANATATGTGATTGATATTATGATGGGGGGGAGTCACAG GNACTACCAGTCACTNCCTTGGGACTNCGGTCTGCCT</pre>
<b>3' Read Nucleotide Sequence:</b>	<pre>&gt;OriGene 3' read for NM_005333 unedited CTATGGACCGGCGCCGCAATCTAAGATCGAGTTTTTTTTTTTTTTTTTGAACATAATCA GCTTTATTTTAAATATAACAANGTATTTTGAATGTAGAGTTTAAAGCTGTTCTATTTCT TAAACTCCACACAAAACGACAAATCCATACCAAATTAATCACCCACAGACTGCCAATTT CATCCACTAATTTAACTACAGCATTTCAGGATAAATTAAGGATTTAATAGTATAGACA GTTAAAAAAGCAGTCATTTGTAACATGCTGCTATAAATAGAACAAACCAGTTTATG GATTACTGGTACAAAAGTTTCAATGGCAAACCTTAGAGCTTCTTAAAACAAAACAAAAA AATCTAGACTGAGTTGAAGCGTCTCCATCTGGGAAAAAATGCTCATCTTGTGAATTTT AACACTCAGCCAAATATAAAATCATGTTTTAGAGGGGGACCATCACTGATACTGGGACTT AAGCCAGGCTTTCAAGGTTTGGATTAGGCCGACTGATGTGGGGAAGGGTGGAGGCTGCCA NCAAAGGAAGAAATGAGATTGGAAGTTGGGATAACTTGTCAAATGCCAAGGACAATGAGG AGACCTGTTTGTGGGAGCAGAGTTACATATTAGAATAACAGGATTTAAAGGGAACATTT TTTAAAAGGTATGTTCCAAAGGAAGGTATAGTTGAAAGTACTCTATCCAGTCCAAGAAAT TCATATAAATCAGAAATTGGAGAAGAATTTGCTGAGTACCTTTCCAGTGTATACCTTTGC ATTNTGNNTAAAGTCACAATCATACCATAGGGGCTTTAGAAAATATGGTAANNCTTTTTTA AAAGGTATANTCACCTCTTATTTATATGAACAGCCTTAGTAAAATATTTGGCAGATGAAA GCTCTGAACATACCATGGACTCTCAGCTTTTACTCCTGGAGTATTCTGANAAAAANTAGA AAAAAGCACTTNATACTTTTAAAGCCTTTTTAAGGTGT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005333
<b>Insert Size:</b>	2380 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).

**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\\_005333.2](#), [NP\\_005324.2](#)

**RefSeq Size:** 2331 bp

**RefSeq ORF:** 807 bp

**Locus ID:** 3052

**UniProt ID:** [P53701](#)

**Cytogenetics:** Xp22.2

**Domains:** Cyto\_heme\_lyase

**Protein Pathways:** Porphyrin and chlorophyll metabolism

**Gene Summary:** The protein encoded by this gene is an enzyme that covalently links a heme group to the apoprotein of cytochrome c. Defects in this gene are a cause of microphthalmia syndromic type 7 (MCOPS7). Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jan 2010]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein.