

Product datasheet for **RC214346**

HCCS (NM_005333) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HCCS (NM_005333) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HCCS
Synonyms: CCHL; LSDMCA1; MCOPS7; MLS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC214346 representing NM_005333
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTTTGTCTCCATCTGCTCCTGCTGTTGCAGTTCAGGCCTCAAATGCTTCAGCGTCCCCACCTTCAG
GATGCCCGATGCATGAAGGGAAAATGAAAGGCTGTCCAGTGAATACAGAGCCATCTGGCCCAACCTGTGA
GAAGAAAACATACTCTGTGCCTGCCACCAGGAACCGCCTATGAGTACGTGGAGTGTCCCATTAGGGGC
ACTGCGGCTGAGAATAAGGAGAACCTAGATCCTCAAATCTGATGCCACCACAAATCAAACACCAGCTC
CAGATCAGCCATTTGCATTGTCTACTGTCAGAGAAGATCATCCATTCCGAGAGCAGATTCAGAGAAAA
GTGGGTTTACCCTTCTGAGCAGATGTTCTGGAATGCAATGTTAAAGAAAGGGTGAAGTGAAGGATGAG
GATATCAGTCAGAAGGATATGTATAATATCATTAGAATTCACAATCAGAATAACGAGCAGGCTTGAAGG
AGATTTTGAAGTGGGAAGCCCTTCATGCTGCAGAGTGTCTTGTGGTCCATCATTGATCCGGTTTGGAGG
GAAAGCAAAGAGTATTCACCAAGGGCACGAATTCGTTCTGGATGGGGTATGAGTTGCCTTTTATAGG
CACGATTGGATCATAAACCGTTGCGGGACAGAAGTTAGATATGTGATTGATTATTATGATGGTGGTGAAG
TCAACAAGGACTACCAGTTCACCATCCTGGACGTCGCTCCTGCCTTAGATTCACCTTCGGCAGTATGGGA
CAGAATGAAAGTCGCTTGGTGGCGTTGGACCTCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC214346 representing NM_005333
Red=Cloning site Green=Tags(s)

MGLSPSAPAVAVQASNASASPPSGCPMHGKMGKCPVNTPEPSGPTCEKKTYSVPAHQERAYEYVECP
 IRTAAENKENLDPSNLMPPPNQTPAPDQPFALSTVREESSIPRADSEKKWVYPSEQMFWNAMLKKGW
 KWKDEDISQKDMYNIIRIHQNNEQAWKEILKWEALHAAECPCGPSLIRFGGKAKEYSPRARIR
 SWMGYELPFDRHDWIINRCGTEVRYVIDYYDGGEVNKDYQFTILDVRPALDSLAVWDRMKVAV
 WRRWTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1263_g08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005333

ORF Size: 804 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_005333.5](#)

RefSeq Size: 2365 bp

RefSeq ORF: 807 bp

Locus ID: 3052

UniProt ID: [P53701](#)

Cytogenetics: Xp22.2

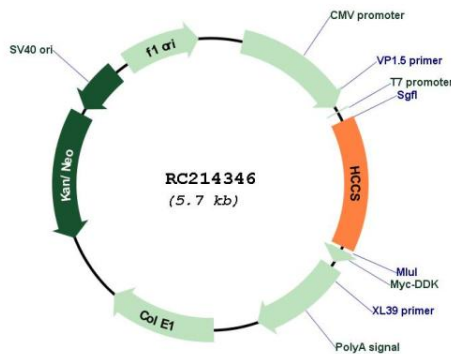
Domains: Cyto_heme_lyase

Protein Pathways: Porphyrin and chlorophyll metabolism

MW: 30.6 kDa

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]

Product images:



Circular map for RC214346