

Product datasheet for **RC217712**

HMGCLL1 (NM_019036) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	HMGCLL1
Synonyms:	bA418P12.1; er-cHL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC217712 representing NM_019036
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGAATGTGCCATCCGCGGTGAAGCACTGCCTCAGCTACCAGCAGCTTCTCCGGGAGCATCTCTGGA
TCGGGGATTCACTGGCAGGGGCGCTCGACCCCGCGCAGACTTCTTCTAACAAACCTTCACTGCTTTCA
GCCCGATGTCTCTGGCTTCTCAGTCTCCTTGGCAGGCACGGTGGCTTGATCCACTGGGAAACATCCAG
TTATCTGGACTCCCTGAGTTTGTTAAAATAGTAGAAGTTGGCCTAGGGATGGATTGCAGAAATGAAAGG
TTATAGTTCTACAGATATAAAAATTGAATTTATCAATCGACTTTCCCAAACCTGGCTTGCTGTAATAGA
AGTGACTAGCTTTGTGCTTCCAGATGGGTACCACAGATGGCTGATCAGCTGAAGTAATGAAAGGCATT
CATCAATATCCAGGAGTTCGATATCCTGTCCTTACTCCTAATCTTCAGGGTTTTACCATGCTGTTGCTG
CTGGAGCTACTGAGATATCAGTTTTTGGAGCTGCATCTGAATCCTTAGCAAGAAGAATATTAAGTTC
CATTGAAGAAAGTATGGGAAATTTGAGGAGGTTGTTAAGTCTGCAAGACACATGAATATCCAGCACGA
GGGTATGTGCTTGTGCTCTGGGCTGTCCATATGAAGGAAGTATTACACCGCAAAAAGTGACAGAAGTGT
CTAAGAGATTGTACGGCATGGGTGTTATGAGATCTCTTAGGAGACACAATTGGAGTGGGAACTCCAGG
AAGTATGAAAGAATGTTGAAAGTGTGATGAAAGAAATCCACAGGTGCTCTTGCTGTTCACTGTCAT
GACACATACGGACAAGCCTTAGCAAATATCCTTACGGCCCTTCAGATGGGAATTAATGTGGTGGACTCCG
CAGTATCCGGATTAGGTGGCTGCCCTTATGCAAAAGGTGCTTCTGGGAATGTAGCCACTGAGGATTTGAT
ATATATGCTTAATGGCTGGGGCTCAATACAGGTGTGAATCTATACAAAGTATGGAAGCTGGTGACTTT
ATTTGCAAAGCTGTGAATAAAACCACAACTCTAAAGTAGCACAAGCCTCCTTCAATGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC217712 representing NM_019036

Red=Cloning site Green=Tags(s)

MGNVPSAVKHCLSYQQLREHLWIGDSVAGALDPAQTSLLTNLHCFQPDVSGFSVSLAGTVACIHWETSQ
LSGLPEFVKIVEVGPRDGLQNEKVIPTDIKIEFINRLSQTGLSVIEVTSFVSSRWVPQADHTEVMKGI
HQYPGVRYPVLTNQLQGFHHAAGATEISVFGAASEFSKKNINCSIEESMGKFEEVVK SARHNMIPAR
GYVSCALGCPYEGSITPQKVTEVSKRLYMGCEYISLGDITGVGTPGSMKRMLESVMKEIPPGALAVHCH
DTYGQALANILTALQMGINVVD SAVSGLGCPYAKGASGNVATEDLIYMLNGLNLTGVNL YKVMEAGDF
ICKAVNKTNTSKVAQASFNA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

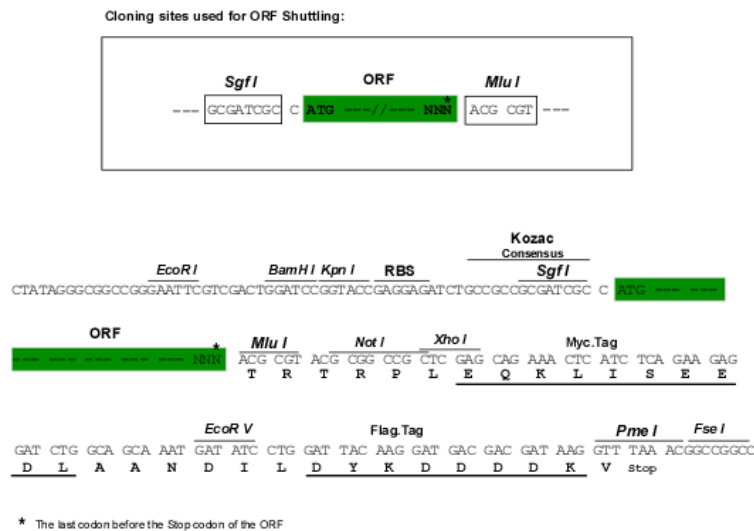
Chromatograms:

https://cdn.origene.com/chromatograms/mk8055_c04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_019036

ORF Size:

1110 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:

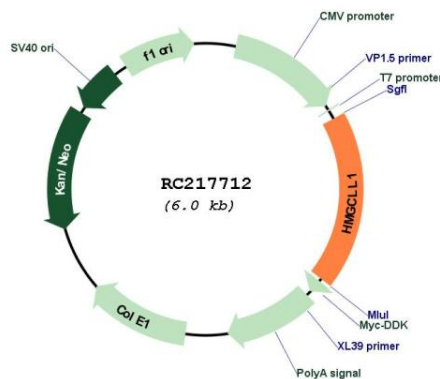
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_019036.2, NP_061909.2</u>
RefSeq Size:	2571 bp
RefSeq ORF:	1113 bp
Locus ID:	54511
UniProt ID:	<u>Q8TB92</u>
Cytogenetics:	6p12.1
MW:	39.3 kDa
Gene Summary:	Non-mitochondrial 3-hydroxymethyl-3-methylglutaryl-CoA lyase that catalyzes a cation-dependent cleavage of (S)-3-hydroxy-3-methylglutaryl-CoA into acetyl-CoA and acetoacetate, a key step in ketogenesis, the products of which support energy production in nonhepatic animal tissues.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC217712