

Product datasheet for **RR214875**

Hmgcl (NM_024386) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hmgcl (NM_024386) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hmgcl
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214875 representing NM_024386 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACAGTGAGGAAGGCTTTCCACAGAGGCTGGTGGGCTTGGCGTCCCTCCGGGCTGCGAGCACCT
CCTCCATGGGCACCTTGCCGAAGCGGGTGAAGATCGTGAAGTCGGCCCCGAGATGGTCTGCAGAATGA
AAAGAGTATCGTGCCGACGCCAGTGAAAACTCAAAGTATAGACATGCTATCCGAAGCAGGGCTCCCGGTC
ATCGAGGCCACCAAGCTTTGTCTCTCCCAAGTGGGTGCCGAGATGGCTGACCACTCTGACGCTTTGAAGG
GCATTCAGAAGTTTCCCGCATCAACTACCCGGTCTGACACCAAACATGAAAGGCTTTGAGGAAGCGGT
AGCTGCAGGTGCCAAGGAAGTGAGCATCTTTGGGGCTGCGTCCGAGCTTTCACCCGGAAGAATGTGAAC
TGCTCTATAGAGGAGAGTTTCCAGCGCTTTGATGGGGTGCATGCAGGCCGCGAGGGCTGCCAGCATCTCTG
TGAGAGGGTATGTCTCCTGTGCCCTCGGATGTCCCTACGAGGGGAAGGTCTCCCCGGCTAAAGTTGCTGA
GGTCGCCAAGAAGTTGACTCAATGGGCTGCTATGAGATCTCCCTGGGGACACCATTGGCGTAGGCACG
CCAGGACTCATGAAAGACATGCTGACTGCTGCTCCTGCATGAAGTGCCTGTGGCCGATTGGCTGTCCACT
GCCATGACACCTATGGCCAAGCTCTGGCCAACACGTTGGTGGCCCTGCAGATGGGAGTGAGCGTTGTGGA
CTCCTCGGTGGCAGGACTCGGAGGCTGTCCCTATGCAAAGGGGGCGTCAGGAACTTGGCTACCGAGGAC
CTGGTCTACATGCTGACTGGCTTAGGGATTACACGCGGTGTGAACCTCCAGAAGCTCTAGAAGCCGGGG
ACTTACTGTCAAGCCCTGAACAGAAAAACCAGTTCCAAAGTGGCACAGGCCACCTGCAAACCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214875 representing NM_024386
Red=Cloning site Green=Tags(s)

MATVVRKAFPQRLVGLASLRAASTSSMGTLPKRVKIVEVGPDRDGLQNEKSI VPTPVKIKLIDMLSEAGLPV
 IEATSFVSPKWVPMADHSDVLKGIQKFPGINYPVLT PNMKGFEVAAGAKEVSI FGAASEL FTRKNVN
 CSIEESFQRFDFGVMQARAASISVRGYVSCALGCPYEGKVSPAKVAEVAKKLYSMGCYEISL GDTIGVGT
 PGLMKDMLTAVLHEVPVAALAVHCHD TYGQALANTLVALQMGVSVVDSSVAGLGGCPYAKGASGNLATE
 LVYMLTGLGIHTGVNLQKLL EAGDFICQALNRKTS SKVAQATCKL

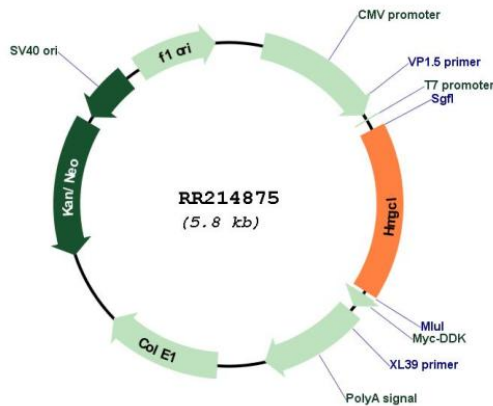
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_024386

ORF Size:	975 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:	<ol style="list-style-type: none">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_024386.1 , NP_077362.1
RefSeq Size:	1390 bp
RefSeq ORF:	978 bp
Locus ID:	79238
UniProt ID:	P97519
Cytogenetics:	5q36
MW:	34.2 kDa
Gene Summary:	an enzyme of the ketogenic 3-hydroxy-3-methylglutaryl-CoA cycle [RGD, Feb 2006]