

Product datasheet for **MR208162**

Hmgcs2 (NM_008256) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hmgcs2 (NM_008256) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hmgcs2
Synonyms:	1300002P16; mHS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208162 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGCGGCTTTTGGCTCCAGCGAGGCGGGTCTGCAAGTGAAGAGAGCGATGCAGAACTTCGCTCA
 CACCTGCTCACCTGCTCTCAGCAGCCCAGCAGAGGTTTTCTACAATCCCTCTGCTCCCTGGCCAAAAC
 AGATACATGGCCAAAAGATGTGGGCATCCTTGCCTGGAGGTCTATTTCCAGCCCAATATGTGGACCAA
 ACTGACCTGGAAAAGTTCAACAATGTGGAAGCAGGGAAGTATACAGTGGGCTTGGCCAGACCCGTATGG
 GCTTCTGTTTCCAGGAGGACATCAACTCCCTGTGCCTGACAGTGGTACAGAGGCTGATGGAACGCAC
 AAAGCTGCCGTGGGATGCTGTGGGCCGTCTGGAAGTGGGCACCGAGACCATATTGACAAGTCCAAGGCT
 GTCAAAACAGTGTCTATGGAAGTGTCCAGGATTCAGGCAACTGACATCGAGGGCATAGATACCACCA
 ACGCTGTTATGGCGGCACAGCCTCCCTCTTCAATGCTGCCAACTGGATGGAGTCCAGCTACTGGGATGG
 TCGCTATGCCCTGGTGGTCTGTGGTACATTGCAGTCTACCCGAGTGGTAACGCCGCCCCACAGGTGGT
 GCTGGGCTGTGGCAATGCTGATCGGGCCAAGGCCCTCTGGTCTCGAGCAAGGGCTGAGGGGAACTC
 ACATGGAGAACCGGTACGACTTCTACAACCAAATTTGGCCTCAGAGTATCCACTGGTGGATGGGAGCT
 GTCTATCCAGTGTACCTGCGGGCCTGGATCGATGCTATGCAGCCTACCGCAAGAAGATCCAGAATCAG
 TGAAGCAAGCTGGAACAACAGCCTTCCACCTCGATGATGTGCAGTATATGATCTTCCACACACCCT
 TTTGCAAGATGGTCCAGAAATCCCTGGCTCGGTTGATGTTCAATGACTTCTGTGATCCAGCAGTGACAA
 ACAGAACAACCTTATAAAGGGCCTAGAGGCCTCAGGGGTCTAAAGCTGGAAGAACTACACCAACAAG
 GATGTAGACAAGGCTCTTTTGAAGGCCCTCCCTGGACATGTTCAACCAGAAGACCAAGGCCCTCCCTTACC
 TCTCCACAAATAATGGGAACATGTACACCTCTCCCTATGGCTGCTGCCTCACTTCTCTCACCA
 CTCTGCCCAAGAATTGGCTGGCTCCAGGATTGGAGCCTTCTCCTACGGCTCAGGCTTAGCAGCAAGTTTC
 TTTTCATTCCGAGTGTCCAAGGATGCTTCCCCAGGTTCCCCCTGGAGAACTGGTGTCTAGTGTGTCAG
 ATCTGCCCAAACGTCTAGACTCCCGGAGACGCATGTCCCCTGAGGAATTCACAGAAATAATGAACCAGAG
 AGAGCAATTTTACCACAAGGTGAACCTCTCTCCACCTGGAGACACAAGCAATCTTCCAGGTACTTGG
 TACCTTGAACGAGTGGATGAGATGCATCGCAGGAAGTATGCCCGGTGTCCCGTC

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

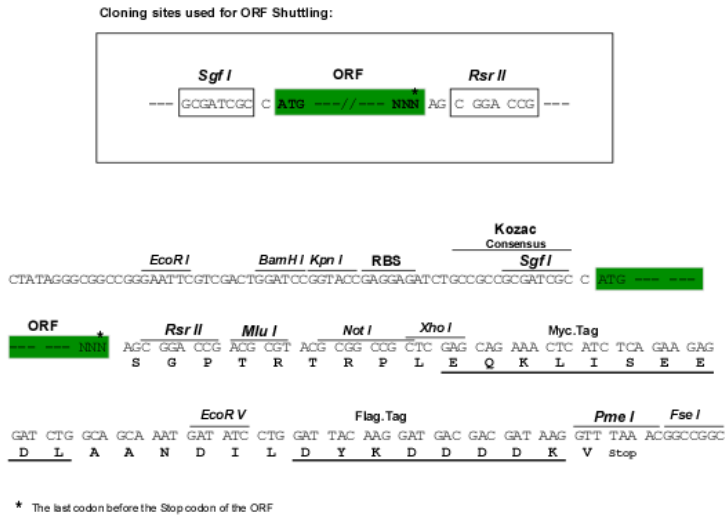
>MR208162 protein sequence
 Red=Cloning site Green=Tags(s)

MQRLLAPARRVLQVKRAMQETSLSLTPAHLLSAAQQRFFSTIPPAPLAKTDTWPKDVGILALEVYFPAQYVDQ
 TDLEKFNVEAGKYTVLGGQTRMGFCSVQEDINSLCLTVVQRLMERTKLPWDAVGRLEVTETIIDKSKA
 VKTVLMELFQDSGNTDIEGIDTTNACYGGTASLFNAANWMESSYWDGRYALVVCGLIAVYPSGNARPTGG
 AGAVAMLI GPKAPLVLEQGLRGTHMENAYDFYKPNLASEYPLVDGKLSIQCYLRALDRCYAAYRKKIQNQ
 WKQAGNNQPFLLDDVQYMI FHTPFCKMVQKSLARLMFNDFLSSSSDKQNNLYKGLEAFRGLKLEETYTNK
 DVDKALLKASLDMFNQKTKASLYLSTNNGNMYTSSLYGCLASLLSHSAQELAGSRIGAFSYGSLAASF
 FSRVSKDASPGSPLEKLVSSVSDLPKRLDSRRRMSPEEFTEIMNQREQFYHKVNFSPPGDTSNLFPGTW
 YLERVDEMHRKRYARCPV

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_008256

ORF Size: 1527 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

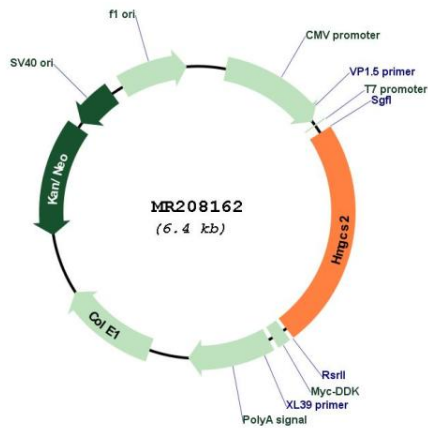
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_008256.4](#), [NP_032282.2](#)

RefSeq Size:	3294 bp
RefSeq ORF:	1527 bp
Locus ID:	15360
UniProt ID:	<u>P54869</u>
Cytogenetics:	3 42.74 cM
MW:	56.8 kDa
Gene Summary:	This enzyme condenses acetyl-CoA with acetoacetyl-CoA to form HMG-CoA, which is the substrate for HMG-CoA reductase.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR208162