

Product datasheet for **MR230352**

Hmgcs1 (NM_001291439) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hmgcs1 (NM_001291439) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hmgcs1
Synonyms:	B130032C06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230352 representing NM_001291439
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTGGGTCACTTCCTTTGAATGCAGAGGCTTCTGCGCCAAAAGATGTGGGAATCGTTGCCCTTGAAA
 TCTACTTTCTTCTCAATATGTCGATCAAGCTGAGTTGGAAAAATACGATGGTGTAGATGCTGGAAAGTA
 TACCATCGGCCTGGGCCAGGCCAGGATGGGCTTCTGCACGGATCGTGAAGACATCAACTCTCTTTCCTG
 ACTGTGGTTCAGAACTGATGGAGAGACATAGCCTTTCCTATGATTGCATTGGGCGGCTAGAAGTTGGAA
 CAGAGACAATCATCGACAAATCGAAATCAGTGAAGTCTAATTTGATGCAGCTGTTTGAGGAGTCTGGGAA
 TACAGATATAGAAGGAATAGATACAACCAATGCATGCTATGGGGGCACAGCTGCAGTCTTCAATGCCGTG
 AACTGGTTCGAATCCAGCTCTTGGGATGGACGATATGCTCTGGTAGTTGCAGGAGACATTGCTATATATG
 CCACAGGAAATGCCAGACCTACAGGTGGAGTTGGAGCTGTGGCCCTGCTAATGGCCAAACGCTCTCT
 AATTTTTGACCGAGGGCTCCGTGGGACACACATGCAGCATGCCTATGACTTTTACAAGCCTGACATGCTC
 TCCGAGTACCCTGTGGTTCGACGGAAGCTCTCCATACAGTGTACCTCAGCGCCCTGGACCGCTGCTATT
 CTGTCTACCGCAAAAAGATCCGTGCCAGTGGCAGAAAAGAGGAAAGGATAAAGATTTTACCCTGAATGA
 TTTTGGCTTATGATCTTCACTCACCATATTGTAACCTGGTGCAGAAATCTCTAGCTCGGATGTTCCCTG
 AATGACTTTCTTAATGATCAAAACAGAGATAAAAACAGTATTTACAGTGGACTGGAAGCCTTTGGGGACG
 TTAATTAAGAAGATACTTACTTTGACAGAGATGTAGAAAAGGCATTTATGAAGGCTAGTTCTGAGCTATT
 CAACCAGAAAACAAGGCGTCTTTGCTTGTGCTAATCAGAATGGAAATATGTACACATCCTCTGTCTAT
 GGTCCCTGGCTTCTGTCTGGCACAGTACTCACCTCAGCAGTTGGCAGGGAAGAGGTTGGAGTGTCT
 CTTACGGTCTGGCTTGGCTGCCACGCTACTCCCTTAAAGTACACACAAGACGCCACACAGGACTGCTGC
 CCTTGATAAAAATAACAGCAAGTTTATGTGACCTTAAATCAAGGCTTGACTCGAGAACTTGTGTGGCACC
 GATGTCTTTGCTGAAAACATGAAGCTCAGAGAGGACACACATCACTTAGCCAATATATCCCCAGTGT
 CAATAGACTCACTCTTTGAAGGAACGTGGTATCTGGTCAGAGTGGATGAAAAACACAGAAGGACTTACGC
 CCGGGCCCTTCAAAATGACCACAGTTTGGATGAAGGAATGGGGCTCGTGCATAGTAACACAGCAACA
 GAGCATATCCAAGCCCTGCTAAGAAAGTGCCAAGACTCCCTGCAACCTCGGCCGAATCTGAATCAGCTG
 TCATCAGTAACGGGGAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230352 representing NM_001291439
 Red=Cloning site Green=Tags(s)

MPGSLPLNAEACWPKDVGIVALEIYFPSQYVDQAELEKYDGVDAKTYIGLQARMGFCTDREDINSLCL
 TVVQKLMERHSLSYDCIGRLEVGTETIIDKSKSVKSNLMQLFEESGNTDIEGIDTTNACYGGTAAVFNAV
 NWESSSWDGRYALVVAGDIAIYATGNARPTGGVGAVALLIGPNAPLIFDRGLRGTHMQHAYDFYKPDML
 SEYPPVDGKLSIQCYLSALDRCYSVYRKKIRAQWQKEGDKDFTLNDFGFMIFHSPYCKLVQKSLARMFL
 NDFLNDQNRDKNSIYSGLEAFGDVLEDTYFDRDVEKAFMKASSELFNQKTKASLLVSNQNGNMYTSSVY
 GSLASVLAQYSPQQLAGKRVGVFSYGSGLAATLYSLKVTQDATPGSALDKITASLCDLKSRLDSRTCVP
 DVFAENMKLREDTHHLANYIPQCSIDSLFEGTWYLRVDEKHRRTYARRPFTNDHSLDEGMGLVHSNTAT
 EHIPSPAKKVPRLPATSAESESAVISNGEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001291439

ORF Size: 1560 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_001291439.1](#), [NP_001278368.1](#)

RefSeq Size: 3518 bp

RefSeq ORF: 1563 bp

Locus ID: 208715

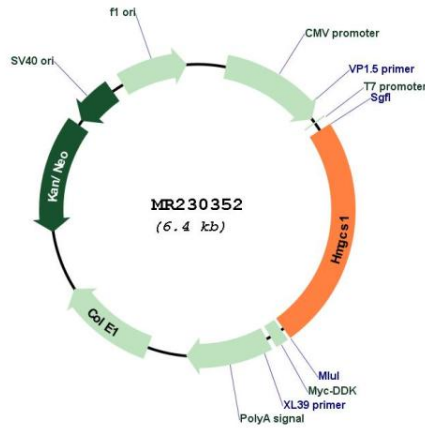
UniProt ID: [Q8JZK9](#)

Cytogenetics: 13

MW: 57.6 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 MR230352