

Product datasheet for **MR208329**

Hmgcs1 (NM_145942) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hmgcs1 (NM_145942) 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:

>MR208329 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTGGGTCACTTCCTTTGAATGCAGAGGCTTCTGCGCCAAAAGATGTGGGAATCGTTGCCCTTGAAA
 TCTACTTTCTCTCAATATGTCGATCAAGCTGAGTTGGAAAAATACGATGGTGTAGATGCTGGAAAGTA
 TACCATCGGCCTGGGCCAGGCCAGGATGGGCTTCTGCACGGATCGTGAAGACATCAACTCTCTTTGCCCG
 ACTGTGGTTCAGAACTGATGGAGAGACATAGCCTTTCTATGATTGCATTGGGCGGCTAGAAGTTGGAA
 CAGAGACAATCATCGACAAATCGAAATCAGTGAAGTCTAATTTGATGCAGCTGTTTGAGGAGTCTGGGAA
 TACAGATATAGAAGGAATAGATACAACCAATGCATGCTATGGGGGCACAGCTGCAGTCTTCAATGCCGTG
 AACTGGTTCGAATCCAGCTCTTGGGATGGACGATATGCTCTGGTAGTTGCAGGAGACATTGCTATATATG
 CCACAGGAAATGCCAGACCTACAGGTGGAGTTGGAGCTGTGGCCCTGCTAATGGCCAAACGCTCTCT
 AATTTTTGACCGAGGGCTCCGTGGGACACACATGCAGCATGCCTATGACTTTTACAAGCCTGACATGCTC
 TCCGAGTACCCTGTGGTTCGACGGAAGCTCTCCATACAGTGTACCTCAGCGCCCTGGACCCTGCTATT
 CTGTCTACCGCAAAAAGATCCGTGCCAGTGGCAGAAAAGAGGAAAGGATAAAGATTTTACCCTGAATGA
 TTTTGGCTTATGATCTTTCACTCACCATATTGTAACCTGGTGCAGAAATCTCTAGCTCGGATGTTCTCTG
 AATGACTTTCTTAATGATCAAAACAGAGATAAAAACAGTATTTACAGTGGACTGGAAGCCTTTGGGGACG
 TTAATTAGAAGATACTTACTTTGACAGAGATGTAGAAAAGGCATTTATGAAGGCTAGTTCTGAGCTATT
 CAACCAGAAAACAAGGCGTCTTTGCTTGTGTCTAATCAGAATGGAAATATGTACACATCCTCTGTCTAT
 GGTCCCTGGCTTCTGTCTGGCACAGTACTCACCTCAGCAGTTGGCAGGGAAGAGGGTTGGAGTGTCT
 CTTACGGTCTGGCTTGGCTGCCACGCTGTACTCCCTTAAAGTCACACAAGACGCCACACAGGACTGTC
 CCTTGATAAAAATAACAGCAAGTTTATGTGACCTTAAATCAAGGCTTACTCGAGAAGTGTGTGGCACCG
 GATGTCTTTGCTGAAAACATGAAGCTCAGAGAGGACACACATCACTTAGCCAATATATCCCCAGTGT
 CAATAGACTCACTCTTTGAAGGAACGTGGTATCTGGTCAGAGTGGATGAAAAACACAGAAGGACTTACGC
 CCGGCGCCCTTCAAAATGACCACAGTTTGGATGAAGGAATGGGGCTCGTGCATAGTAACACAGCAACA
 GAGCATATTCCAAGCCCTGCTAAGAAAGTGCCAAGACTCCCTGCAACCTCGGCCGAATCTGAATCAGCTG
 TCATCAGTAACGGGGAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208329 protein sequence
 Red=Cloning site Green=Tags(s)

MPGSLPLNAEACWPKDVGIVALEIYFPSQYVDQAELEKYDGVDAKTYIGLQARMGFCTDREDINSLCP
 TVVQKLMERHSLSYDCIGRLEVGTETIIDKSKSVKSNLMQLFEESGNTDIEGIDTTNACYGGTAAVFNAV
 NWESSSWDGRYALVVAGDIAIYATGNARPTGGVAVALLIGPNAPLIFDRGLRGTHMQHAYDFYKPDML
 SEYPPVDGKLSIQCYLSALDRCYSVYRKKIRAQWQKEGKDKDFLNDFGFMIHFSPYCKLVQKSLARMFL
 NDFLNDQNRDKNSIYSGLEAFGDVKLEDYFDRDVEKAFMKASSELFNQKTKASLLVSNQNGNMYTSSVY
 GSLASVLAQYSPQQLAGKRVGVFSYGSGLAATLYSLKVTQDATPGSALDKITASLCDLKSRLDSRTCVP
 DVFAENMKLREDTHHLANYIPQCSIDSLFEGTWYLRVDEKHHRTYARRPFTNDHSLDEGMGLVHSNTAT
 EHIPSPAKKVPRLPATSAESESAVISNGEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_145942

ORF Size: 1563 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_145942.1](#)

RefSeq Size: 3577 bp

RefSeq ORF: 1563 bp

Locus ID: 208715

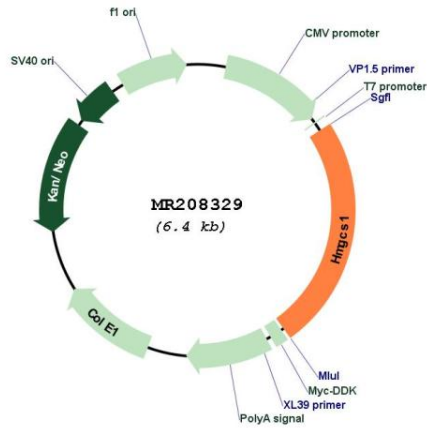
UniProt ID: [Q8JZK9](#)

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 MR208329