

Product datasheet for **MG208329**

Hmgcs1 (NM_145942) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hmgcs1 (NM_145942) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hmgcs1
Synonyms:	B130032C06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208329 representing NM_145942
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTGGGTCACTTCCTTTGAATGCAGAGGCTTCTGCGCCAAAAGATGTGGGAATCGTTGCCCTTGAAA
 TCTACTTTCTCTCAATATGTCGATCAAGCTGAGTTGGAAAAATACGATGGTGTAGATGCTGGAAAAGTA
 TACCATCGGCCTGGGCCAGGCCAGGATGGGCTTCTGCACGGATCGTGAAGACATCAACTCTCTTTGCCCG
 ACTGTGGTTCAGAACTGATGGAGAGACATAGCCTTTCCTATGATTGCATTGGGCGGCTAGAAGTTGGAA
 CAGAGACAATCATCGACAAATCGAAATCAGTGAAGTCTAATTTGATGCAGCTGTTTGAGGAGTCTGGGAA
 TACAGATATAGAAGGAATAGATACAACCAATGCATGCTATGGGGGCACAGCTGCAGTCTTCAATGCCGTG
 AACTGGTTCGAATCCAGCTCTTGGGATGGACGATATGCTCTGGTAGTTGCAGGAGACATTGCTATATATG
 CCACAGGAAATGCCAGACCTACAGGTGGAGTTGGAGCTGTGGCCCTGCTAATTGGCCAAACGCTCTCT
 AATTTTTGACCGAGGGCTCCGTGGGACACACATGCAGCATGCCTATGACTTTTACAAGCCTGACATGCTC
 TCCGAGTACCCTGTGGTTCGACGGAAGCTCTCCATACAGTGTACCTCAGCGCCCTGGACCCTGCTATT
 CTGTCTACCGCAAAAAGATCCGTGCCAGTGGCAGAAAAGAGGAAAGGATAAAGATTTTACCCTGAATGA
 TTTTGGCTTATGATCTTCACTCACCATATTGTAACCTGGTGCAGAAATCTCTAGCTCGGATGTTCCCTG
 AATGACTTTCTTAATGATCAAAAACAGAGATAAAAACAGTATTTACAGTGGACTGGAAGCCTTTGGGGACG
 TTAATTAAGAAGATACTTACTTTGACAGAGATGTAGAAAAGGCATTTATGAAGGCTAGTTCTGAGCTATT
 CAACCAGAAAACAAGGCGTCTTTGCTTGTGTCTAATCAGAATGGAAATATGTACACATCCTCTGTCTAT
 GGTCCCTGGCTTCTGTCTGGCACAGTACTCACCTCAGCAGTTGGCAGGGAAGAGGGTTGGAGTGTCT
 CTTACGGTTCTGGCTTGGCTGCCACGCTGTACTCCCTTAAAGTACACACAAGACGCCACACAGGACTGTC
 CCTTGATAAAAATAACAGCAAGTTTATGTGACCTTAAATCAAGGCTTACTCGAGAAGCTTGTGTGGCACCG
 GATGTCTTTGCTGAAAACATGAAGCTCAGAGAGGACACACATCACTTAGCCAATATATTCCCCAGTGT
 CAATAGACTCACTCTTTGAAGGAACGTGGTATCTGGTCAGAGTGGATGAAAAACACAGAAGGACTTACGC
 CCGGCCCCCTTCAAAATGACCACAGTTTGGATGAAGGAATGGGGCTCGTGCATAGTAACACAGCAACA
 GAGCATATTCCAAGCCCTGCTAAGAAAGTGCCAAGACTCCCTGCAACCTCGGCCGAATCTGAATCAGCTG
 TCATCAGTAACGGGGAGCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208329 representing NM_145942
 Red=Cloning site Green=Tags(s)

MPGSLPLNAEACWPKDVGIVALEIYFPSQYVDQAELEKYDGVDAKTYITLGLQARMGFCTDREDINSLCP
 TVVQKLMERHLSYDCIGRLEVGTETIIDKSKSVKSNLMQLFEESGNTDIEGIDTTNACYGGTAAVFNAV
 NWEVSSWDGRYALVVAGDIAIYATGNARPTGGVAVALLIGPNAPLIFDRGLRGTHMQHAYDFYKPDML
 SEYPVVDGKLSIQCYLSALDRCYSVYRKKIRAQWQKEGKDKDFTLNDFGFMIFHSPYCKLVQKSLARMFL
 NDFLNDQNRDKNSIYSGLEAFGDVKLEDTYFDRDVEKAFMKASSELFNQKTKASLLVSNQNGNMYTSSVY
 GSLASVLAQYSPQQLAGKRVGVFSYSGLAATLYSLKVTQDATPGSALDKITASLCDLKSRLDSRTCVPAP
 DVFAENMKLREDTHHLANYIPQCSIDSLFEGTWYLRVDEKHRRTYARRPFTNDHSLDEGMGLVHSNTAT
 EHIPSPAKKVPRLPATSAESESAVISNGEH

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_145942
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:	<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_145942.1
RefSeq Size:	3466 bp
RefSeq ORF:	1563 bp
Locus ID:	208715
UniProt ID:	Q8JZK9
Cytogenetics:	13
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]