

## Product datasheet for **RR215489**

### Hmgcr (NM\_013134) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hmgcr (NM_013134) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hmgcr
Synonyms:	3H3M
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR215489 representing NM\_013134  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTGTCAAGACTTTTTCCGTATGCATGGCCTCTTTGTGGCCTCCCATCCCTGGGAGGTAATTGTGGGAA  
 CGGTGACACTTACTATCTGTATGATGTCCATGAACATGTTACCCGCAACAACAAGATCTGTGGTTGGAA  
 TTATGAGTGCCCAAAATTTGAAGAGGACGTGCTGAGCAGCGACATCATCATCCTCACGATAACCCGGTGC  
 ATCGCCATCCTGTACATCTACTTCCAGTTCAGAACCTGCGTCAGCTTGGGTCAAAGTACATTTTGGGTA  
 TTGCCGGCCTCTTCAAAATTTCTCAAGTTTCGTCTTCCAGCACTGTCGTCAATTCATTTCTCGACAAAGA  
 ATTGACAGGCTTAAATGAAGCTTTGCCCTTTTTCTGCTCTTGATTGACCTTTCTAGAGCGAGTGCATTG  
 GCCAAGTTTGCCTGAGTTCAACTCACAGGATGAAGTAAGGGAGAATATAGCCGCTGGGATGGCGATCC  
 TGGGCCACGTTACCCTTGACGCTCTGGTGAATGTCTTGATTGGAGTTGGCACCATGTCAGGGT  
 GCGGCAGCTTGAGATCATGTGCTGCTTTGGCTGTATGTCGCTGTTGCCAACTACTTTGTCTTCATGACA  
 TTCTTCCAGCCTGCGTGTCCCTGGTCTAGAGCTTTCTCGGAAAGCCGTGAGGGTTCGTCGAATTTGGC  
 AGCTCAGCCATTTTCCAGAGTTTTAGAAGAAGAGAATAAACCAAACCCAGTAAACCAAAGGGTCAA  
 GATGATCATGTCTTAGGCCTGGTCTTGTTCACGCTCACAGTCGCTGGATAGCTGATCCTTCTCCTCAG  
 AACAGCACAGCAGAACAGTCTAAGGTTTCTTGGGTCTGGCTGAAGATGTGTCCAAGAGAATTGAGCCGA  
 GTGTTTCTCTCTGGCAGTTTTACCTCTCCAAGATGATCAGCATGGACATCGAGCAAGTGATTACCCTGAG  
 CTTAGCGTTGCTTTTGGCTGTCAAGTATATTTCTTTGAACAAGCAGAGACAGAATCAACACTCTCATT  
 AAAATCTATCATATCTCCTGTCGTGACCCCAAGAAAGCTCAAGACAAGTGTGTAGAGCTGAGCCTC  
 TGCTTGTGAGGAGGAACCAAGCTTTTCGTCACTGGAGGAGGATCCAGGAGTGAACCAAGACAGAAAGT  
 TGAGGTTATAAAACCTTTAGTGGCAGAAGCCGAGACTTCGGGCAGAGCTACGTTTGTGCTTGGCGCCTCT  
 GCAGCCAGCCCTCCATTGGCCCTGGGGGCACAGGAGCCTGGGATCGAACTCCCCAGCGAGCCTCGACCTA  
 ATGAAGAGTGTCTACAGATACTGGAGAGTGCAGAGAAAGGTGCGAAGTTCCTTAGTGATGCAGAGATCAT  
 CCAGTTGGTCAATGCTAAGCACATCCAGCCTACAACTGGAAACCTCATGGAGACGCACGAGCGTGGT  
 GTGTCTATTCGCCGCGAGCTCCTCTCCGCAAGCTTGCAGAGCCATCTTCTGTCAGTACCTGCCTTACA  
 GAGACTATAATTACTCCTTGGTGTGGAGCTTGTGTGAGAACGTGATCGGATATATGCCATCCCTGT  
 TGGAGTGGCAGGACCTCTGTGCCTGGATGAAAAGAGTACCAGGTGCCAATGGCAACAACAGAAGGTTGT  
 CTTGTGGCCAGCACGAACAGAGGCTGCAGAGCGATCAGTCTTGGTGGAGGTGCCAGCAGCCGGTCTTG  
 CAGATGGGATGAGCCGAGGCCAGTGGTGCCTTCTCCTCGTGTGTGACTCAGCAGAGGTGAAGAGCTG  
 GCTTGAACACCTGAAGGGTTTGCAGTGGTAAAGGAGGCCTTCGACAGCACGAGCAGATTTGCACGTCTA  
 CAGAACTTACGTGACGCTGGCAGGACGCAACCTCTACATCCGTCTCCAGTCCAAAACGGGGGACGCCA  
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 GCAGATTTCTGGCGGTCACTGGTAACTATTGCACCGACAAGAACTGTGCCATAAACTGGATCGAAGGG  
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 CTACAACGCCATGCTGCCAACATCGTCACTGCCATCTACATTGCATGTGGCCAGGATGCAGCAGAGAAT  
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 GTCACATGGTTCAACAGATCAAAGATAAATTTACAAGATCTGCAGGGAACATGCACCAAGAAGGCAGC  
 T

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215489 representing NM\_013134  
 Red=Cloning site Green=Tags(s)

MLSRLFRMHGLFVASHPWEVIVGTVTLTICMMSMNMTGNNKICGWNYECPKFEEDVLSDDIIILTITRC  
 IAILYIFQFQNLRLQSGKYILGIAGLFTIFSSVFSTVVIHFLDKELTGLNEALPFFLLIDLRSASAL  
 AKFALSSNSQDEVRENIARGMAILGPTFTLDALVECLVIGVGTMSGVRQLEIMCCFCGMSVLANYFVMT  
 FFPACVSLVLELSRESREGRIPIWQLSHFARVLEEEENKPNPVTQRVKMIMSLGLVLVHAHSRWIADPSQ  
 NSTAEQSKVSLGLAEDVSKRIEPSVSLWQFYLSKMSMDIEQVITLSLALLLAVKYIFFEQAETESTLSL  
 KNFITSVPVTPKKAQDNCCRREPLLVRNQLKSSVEEDPGVNDQRKVEVIKPLVAEAEATSGRATFVLGAS  
 AASPPLALGAQEPGIELPSEPRPNEECLQILESAEKAKFLSDAEIIQLVNAKHIPAYKLETLMETHERG  
 VSIRRQLLSAKLAEPSSLQYLPYRDYNSLVMGACCENVI GYMPIPVGVAGPLCLDGKEYQVPMATTEGC  
 LVASTNRGCRAISLGGGASSRVLADGMSRGPVVRPRACDSA EVKSWLETPEGFAVVKEAFDSTSRFARL  
 QKLHVTLAGRNLYIRLQSKTGDAMGMNISKGTEKALLKLEFFPELQILAVSGNYCTDKKPAAINWIEG  
 RGKTVVCEAVIPAKVVREVLKTTTEAMVDVNINKNLVGSAMAGSIGGYNAHAANIVTAIYIACGQDAQ  
 VGSNCITLMEASGPTNEDLYISCTMPSIEIGTVGGGTNLLPQQACLQMLGVQGACKDNPGENARQLARI  
 VCGTVMAGELSLMAALAAGHLVRSHMVHNRSKINLQDLQGTCTKAA

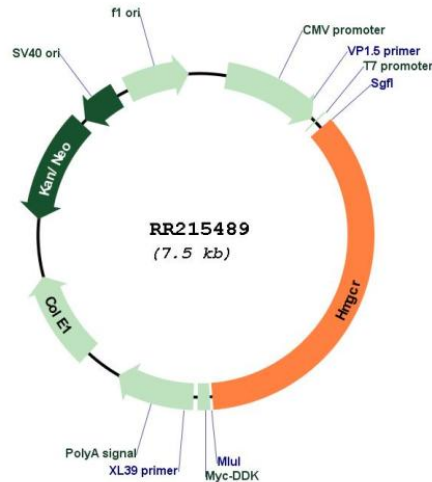
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_013134

**ORF Size:** 2661 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](mailto: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\\_013134.2](#), [NP\\_037266.2](#)  
RefSeq Size: 4319 bp  
RefSeq ORF: 2664 bp  
Locus ID: 25675  
UniProt ID: [P51639](#)  
Cytogenetics: 2q12  
MW: 96.7 kDa  
Gene Summary: enzyme involved in mevalonate synthesis [RGD, Feb 2006]