

## Product datasheet for **SC216360**

### **HMGCR (NM\_000859) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	HMGCR (NM_000859) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	HMGCR
Synonyms:	LDLCQ3
ACCN:	NM_000859
Insert Size:	1792 bp



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**Insert Sequence:** >SC216360 3' UTR clone of NM\_000859  
 The sequence shown below is from the reference sequence of NM\_000859. The complete sequence of this clone may contain minor differences, such as SNPs. **Red**=Cloning site  
**Blue**=Stop Codon

CAATTGGCAGAGCTCAGAATTCAA**GCGATCGC**

ACAAGACCTCCAAGGAGCTTGCACCAAGAAGACAGCC**TGA**ATAGCCCGACAGTTCTGAACTGGAACATGG  
 GCATTGGGTTCTAAAGGACTAACATAAAATCTGTGAATTAATAAGCTCAATGCATTGTCTTGTGGAGGA  
 TGAATAGATGTGATCACTGAGACAGCCACTTGGTTTTGGCTCTTTCAGAGAGGTCTCAGGTTCTTTCCA  
 TGCAGACTCCTCAGATCTGAACACAGTTTGTGCTTTACATGCTGTGCTCTTTGAAGAGATTTCAACAAG  
 AATATTGTATGTTAAAGCATCAGAGATGGTAATCTACAGCTCACCTCTGAAGGCAAAATAAGCTGGGAA  
 AAAAGTTTTGATGAAATCTTGAAGTTCATGGTATCAGTGAATGACCTTCTCCCTCACTCTGCCAG  
 TTGAAAATGGATTTTTAAATTACTGTAGCTGATGAACTCCTGATTTTGTAGTTAATTTATTAAGTCT  
 GGGATGTAGAACTCAAGAAGTAAGAGCTAAGTTCTAAGTTCATGTTTGTAAATTAATACTTCATTTGGT  
 GCTGGTCTATTTGATTTGGGGGTAATCAGCATTATCTTTCAGAAGGGGACCTGTTTTCTCAAGGGA  
 AGAAACTCTTATCCCAACTACAGAATAATGTGTTAAACATGCTAAATAGTTCTATCAGGAAAAAA  
 ATCACTGTATTTATCTCCGAGGCTATTTGTTCCAGAGAGGCTTTTGTAAATATAAATGTTAAATAT  
 AAATGTTTGTCTGGATTGGCTATAACATGTCTTTCAGCATTAGGCTTTTAAAGAACACAGGGTTTTGTAT  
 TCTTTACTAAAGATATCAGAGCTCTTAATGTTGCTTAGATGAGGGTGACTGTCAAGTACAAGCAAGACTG  
 GGACCTTAGAAATCATTGTAGAAACACAGTTTTGAAAGAAAAATACCATGTCTTAAGCCAACTTAATT  
 GCTTAAAGACATTTTTATTTAGTTGAAAAATCTAGTTTTTTTTGTAACTGTATCAAATCTGTATATGT  
 TGTAAATAAACTTATGCTAGTTTATTGGAAGTGTCAAGAAATAAAATCAACTTGTGTACTGATAAAAT  
 ACTCTAGCCTGGGCCAGAGAAGATAATGTTCTTAAATGTTGTCCAGGAAACCCTGGCTTCTTGGCCGAGC  
 CTAATGAAAGGAAAGTCACTTTCAGAGCCAGTGAAGGAGCCACGTGAATGGCCCTAGAACTGTGCCTA  
 GTTCTGTGGCCAGGAGTTGGTGACTGAAACATTCACACAGGGCTCTTGTGAGCCACGAAACGCTCT  
 TAGCTTCTCAGGGGTCAAGAGTATTGAATCTTAAATTTTTTTTAAATGTACAAGTTTTGTATAAATA  
 AATAAGAACTCCTATTTTGTATTACATCTAATGCTTCAAGTGTGCTCTTGGAAAGCTGATGATGTCTC  
 TTGTAGAAGATGACTCTGAAAAACATCCAGGAAACCATGGCAGCATGGAGAGCCTCTTAGTGATTGTG  
 TCTGCATTGTTATTGTGAAGATTTACCTTTTCTGTTGTACGTAAGCTTAAATTGCTTTTGTGTTGACT  
 TTTTAGCCAGTACTTTTTCTGAGCTTTTCATGGAAGTGGCAGTGAAAAATATGTTGAGTGTTCAATTTA  
 GTGACTGTAATTAATATCTTGCTGGATTAATGTTTTGTACAATTAATAATTGTATACATTTTGTATAG  
 AATACTTTTTCTAGTTTCAGTAAATAATGAAAAGGAAGTTA

**ACGCGT**AAGCGGCCGCGCATCTAGATTCGAAGAAATGACCG

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_000859.2](#)

**Summary:**

HMG-CoA reductase is the rate-limiting enzyme for cholesterol synthesis and is regulated via a negative feedback mechanism mediated by sterols and non-sterol metabolites derived from mevalonate, the product of the reaction catalyzed by reductase. Normally in mammalian cells this enzyme is suppressed by cholesterol derived from the internalization and degradation of low density lipoprotein (LDL) via the LDL receptor. Competitive inhibitors of the reductase induce the expression of LDL receptors in the liver, which in turn increases the catabolism of plasma LDL and lowers the plasma concentration of cholesterol, an important determinant of atherosclerosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]

**Locus ID:**

3156