

## Product datasheet for RR214339

### Acat2 (NM\_001006995) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Acat2 (NM_001006995) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acat2
Synonyms:	Ab2-076; Acat3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214339 representing NM_001006995 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAATGCAGGCTCGGACCCCGTCGTCATCATCTCAGCGGCGGGACCGCCATAGGTTCCCTCAATGGTG  
CCCTGTCCACCGTGCCTGTCCACAACCTGGGACAACCTGTTATCAAAGAAGTCCTTCAGAGAGCCAAAGT  
GGCTCCAGAAGAGGTGTCCGAGGTCATATTTGGACACGTTTTGACTGCAGGCTGTGGGCAGAATCCTACT  
CGACAAGCCAGTGTGGGTGCGGGGATCCCTACTCGGTGCCAGCATGGAGCTGCCAGATGATCTGTGGCT  
CGGGCCTAAAAGCCGTGTGCCTTGACGCTCAGTCCATAGCCATGGGTGACTCCACCATCGTGGTTGCTGG  
AGGCATGGAGAACATGAGCAAGGCCCTCACTTGGCTCACCTGAGATCAGGAGTGAAGATGGGTGAGGTG  
CCACTCGCCGACAGCATCCTCTGTGATGGCCTCACAGATGCGTTTCACAACTACCACATGGGCATCACAG  
CTGAAAACGTAGCCAAAAATGGCAAGTGAAGAGAGAGGCCAGGACAAGTTGCTGTTGTGCCAGAA  
TAGGGCGGAGCATGCGCAGAAAGCTGGCCACTTTGACAAGGAGATTGTGCCAGTGCACGTGCTTTCTAGA  
AAAGTCTTACTGAAGTAAAAATCGATGAGTTTCTCGTCATGGGAGTAACCTTGAAGCCATGAGCAAGC  
TGAAGCCTTACTTTCTTACTGATGGGACTGGAACGGTCACCCAGCGAATGCATCAGGAATGAACGATGG  
TGCTGCTGCTGTGGTTCTTATGAAGAAGACGGAAGCTGAGAGTCGGATGCTGAAAACCTTTAGCACAAAGT  
GTCTCCTGGTCACAAGCCGGTGTGGAGCCTTCTGTGATGGGAGTAGGACCGATTCCAGCCATAAAGCAAG  
CTGTTGCAAAGGCAGGCTGGTCCCTGGAGGATGTTGACGTGTTTAAAATCAATGAAGCCTTTGCAGCAGT  
GTCTGCAGCAATAGCTAAAGAACTTGGATTAAGCCCCGAGAAGGTGAACATCGATGGAGGAGCCATTGCC  
TTGGGACATCCTCTGGGAGCATCTGGCTGTAGGATTCTAGTGACCTTGTACACACCCTGGAGAGAGTGG  
GTGGGACTCGTGGTGTGCAGCCCTGTGCATTGGGGTGGTATGGGGATCGCAATGTGTGTTAGAGAGG  
G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR214339 representing NM\_001006995  
 Red=Cloning site Green=Tags(s)

MNAGSDPVVIIISAARTAIGSFNGALSTVPVHNLGTTVIKEVLQRAKVAPEEVSEVIFGHVLTAGCGQNPT  
 RQASVAGIPYSPAWSCQMICGSLKAVCLAAQSIAMGDSTIVVAGGMENMSKAPHLAHLRSGVKMGEV  
 PLADSI L CDGLTDAFHNYHMGITAENVAKKWQVSREAQDKVAVVSQNRAEHAQKAGHFDKEIVPVHVSSR  
 KGLTEVKIDEFPRHGSNLEAMSKLKPYFLTDGTGTVTPANASGMNDGAAAVVLMKKTEAESRMLKPLAQV  
 VWSQAGVEPSVMGVGPIPAIKQAVAKAGWSLEDVDVFEINEFAAVSAAIAKELGLSPEKVNIDGGAIA  
 LGHPLGASGCRI LVTLLHTLERVGGTRGVAALCI GGGMGIAMCVQRG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

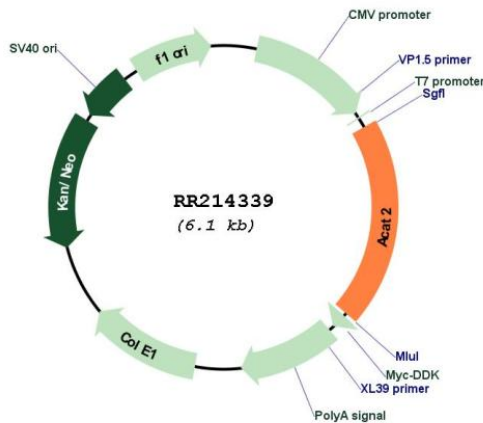
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001006995

<b>ORF Size:</b>	1191 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001006995.1</a> , <a href="#">NP_001006996.1</a>
<b>RefSeq Size:</b>	2050 bp
<b>RefSeq ORF:</b>	1194 bp
<b>Locus ID:</b>	308100
<b>UniProt ID:</b>	<a href="#">Q5XI22</a>
<b>Cytogenetics:</b>	1q11
<b>MW:</b>	41.1 kDa
<b>Gene Summary:</b>	Involved in the biosynthetic pathway of cholesterol.[UniProtKB/Swiss-Prot Function]