

Product datasheet for **MR206240**

Acat2 (NM_009338) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Acat2 (NM_009338) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Acat2
Synonyms: AW742799; Tcp-1x; Tcp1-rs1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR206240 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAATGCGGGCTCAGACCCCGTGGTCATCGTCTCAGCGGCGCCACCGCTATAGGCTCCTCAATGGTG
CCCTGTCCACCGTGCCTGTCCACGAAATGGGACAACCTGTCATCAAAGAAGTCTGCAGAGGGCCAAGT
GGCTCCAGAAGAGGTGTCCGAGGCATATTTGGACATGTCTTGACGGCAGGTTGTGGCAGAATCCTACT
CGACAAGCCAGTGTGGGTGCAGGATCCCTATTCGGTTCAGCATGGAGCTGCCAGATGATCTGTGGCT
CGGGCCTAAAAGCCGTGTGTCTTGACGCCAGTCCCTAGCCATGGGCGACTCCACCATTGTGGTAGCTGG
AGGCATGGAGAATATGAGCAAGGCTCCTCACTTGACTCACCTGAGAACAGGAGTCAGGATGGGTGAGGTG
CCACTGGCTGACAGCATACTCTGTGATGGTCTGACAGATGCCCTTTCACAACTACCACATGGGCATCACAG
CTGAAAACGTAGCCAAAAATGGCAAGTGAAGCAGAGAGGCCAGGACAAGGTTGCAGTCTGTACAGAA
CAGGGCAGAGCATGCTCAGAAAGCTGGCCACTTTGACAAGGAGATTGTGCCAGTGTGGTGTCTCCAGA
AAAGTCTTACTGAAGTAAAAATCGATGAATTTCCCGTCATGGGAGTAACCTTGAAGCCATGGCAAGC
TGAAACCTTACTTTCTTACTGATGGGACAGGAAGTGTACCCAGCGAAGCATCAGGAATGAACGATGG
CGCTGCTGCTGTGGTCTTATGAAGAAGACAGAAGCTGAGAGGCGGATGCTGAAACCTTTAGCAAGAATA
GTCTCCTGGTCCCAAGCCGGTGTGGAGCCTTCTGTTATGGGAGTAGGACCAATTCAGCCATAAAGCAAG
CTGTTGCAAAGGCAGGCTGGTCCCTGGAGGATGTTGACCTGTTTGAATCAATGAAGCCTTTGCAGCGGT
GTCTGCGGCAATAGCTAAAGAACTTGGATTAACCCCGAGAAGGTCAACATCGATGGAGGAGCCATTGCC
TTGGGCCATCCTCTGGGAGCATCTGGCTGCAGGATTCTAGTGACCTTGTGCACACCCTGGAGAGAGTGG
GCGGGACCCGTGGTGTTCAGCCCTGTGCATTGGGGTGGGATGGGAGTCGCAATGTGTTCAGAGAGG
G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence:

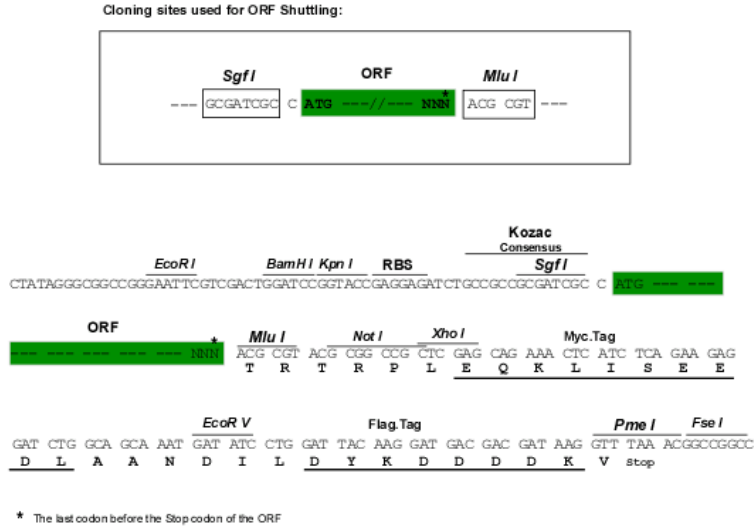
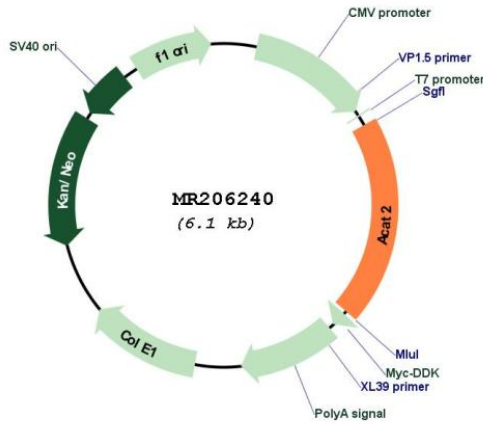
>MR206240 protein sequence
 Red=Cloning site Green=Tags(s)

MNAGSDPVVIVSAARTAIGSFNGALSTVPVHEMGTTVIKEVLQRAKVAPEEVSEVIFGHVLTAGCGQNPT
 RQASVAGIPYSPAWSCQMICGSLKAVCLAAQSLAMGDSTIVVAGGMENMSKAPHLTHLRTGVRMGEV
 PLADSI LCDGLTDAFHNYHMGITAENVAKKWQVSREAQDKVAVLSQNRAEHAQKAGHFDKEIVPVLVSSR
 KGLTEVKIDEFPRHGSNLEAMGKLPYFLTDGTGTVTPANASGMNDGAAAVVLMKKTEAERRMLKPLARI
 VWSQAGVEPSVMGVGPIPAIKQAVAKAGWSLEDVDLFEINEFAAVSAAIAKELGLNPEKYNIDGGAIA
 LGHPLGASGCRI LVTLLHTLERVGGTRGVAALCI GGGMGVAMCVQRG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN:

NM_009338

ORF Size:	1194 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_009338.1 , NM_009338.2 , NM_009338.3 , NP_033364.1
RefSeq Size:	2076 bp
RefSeq ORF:	1194 bp
Locus ID:	110460
UniProt ID:	Q8CAY6
Cytogenetics:	17 8.73 cM
MW:	41.3 kDa
Gene Summary:	Involved in the biosynthetic pathway of cholesterol.[UniProtKB/Swiss-Prot Function]