

Product datasheet for **MC219629**

Retsat (NM_026159) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retsat (NM_026159) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Retsat
Synonyms:	0610039N19Rik; C80029; MMT-7; Ppsig
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219629 representing NM_026159
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGATCACTGCTCTGCTGCTGGCCGTGCTGCTGCTGGTGATCCTCCACAGGGTCTACGTGGGCCTTT
 ACGCTGCAAGTTCCCGAACCCTTCGCGGAGGATGTCAAGCGACCGCCTGAACCCTGGTGACCGACAA
 GGAGGCTAGGAAGAAAGTTCTCAAACAAGCTTTCTCAGTCAGCCGAGTACCAGAGAAGCTGGATGCAGTG
 GTGATCGGCAGCGGCATTGGGGGACTGGCCTCAGCTGCGGTTCTAGCTAAAGCTGGCAAGAGAGTCTTTG
 TGCTGGAACAACATACCAAGGCGGGCGGCTGTTGTACACCTTTGGGAAAAATGGCCTTGAATTTGACAC
 TGGAAATTCATTATATTGGACGAATGCGGGAGGGCAACATTGGCCGTTTTATCTTGGACCAGATCACTGAA
 GGGCAACTGGACTGGGCCCCATGGCCTCCCTTTTGACTTGATGATACTAGAAGGGCCCAATGGCCGAA
 AGGAGTCCCCATGTACAGTGGGAGGAAAGAATACATCCAGGGCCTTAAGAAGAAGTTCCCAAGGAAGA
 AGCTGTCAATTGACAAGTACATGGAGTTGGTTAAGGTGGTGGCCCGTGGAGTCTCTCATGCAGTTCTACTC
 AAGTTCCTCCCATTTGCCCTTGACTCAGCTCCTCAGCAAGTTGGGCTACTGACTCGTTTCTCTCCATTCT
 GCCGAGCGTCTACGCAGAGCCTAGCTGAAGTCTGCAGCAGCTTGGGGCTTCCCGTGAGCTCCAGGCTGT
 TCTCAGCTACATCTTCCCACTTACGGAGTAACTCCAGCCACACCGCCTTTTCTTGCATGCTCTGCTG
 GTTGACCACTACATAAAGGGGCATATTACCCTCGAGGGGGTTCCAGTGAGATCGCCTTCCATACCATCC
 CTTTGATTGAGCGGGCCGGGGCGCTGTCTCACCAGGGCCACTGTACAGAGTGTGCTGCTGGACTCAGC
 TGGGAGAGCGTGTGGTGTGAGTGAAGAAGGGACAAGAGCTGGTGAACATCTACTGCCAGTTGTCATC
 TCCAATGCGGGAATGTTCAATACCTATCAGCACTTGTGGCCAGAGACTGCCCCATCTGCCAGATGTGA
 AGAAGCAGCTGGCGATGGTAAGGCCTGGTCTGAGCATGCTCTCAATCTTCACTGTCTGAAAGGCCAA
 GGAGGACCTGAAGCTTTCAGTCCACCAACTACTATGTTTATTTTGACACAGACATGGACAAAAGCGATGGAG
 CGCTATGTCTCTATGCCCAAGGAAAAGGCTCCAGAACACATTCCCTTCTTTCATTGCCTTCCCATCAA
 GCAAGGATCCAACCTGGGAGGAGCGATTCCAGACCGATCCACAATGACTGCGCTGGTACCCATGGCCTT
 TGAATGGTTCGAGGAGTGGCAGGAGGAGCCAAAGGGCAAGCGTGGTGTGACTATGAGACCTCAAAAAT
 GCCTTCGTGGAAGCCTCTATGTCGGTGATCATGAAACTGTTCCACAGCTGGAGGGCAAGGTGGAGAGTG
 TGACTGGAGGGTCACTGACCAACCAGTACTATCTGGCTGCACCCGAGGAGTACCTATGGAGCTGA
 CCATGACTTGGCTCGGCTGCATCCTCATGCAATGGCTTCCATAAGAGCCCAACCCCATCCCAACCTC
 TACCTGACAGGCCAAGATATCTTACCTGTGGGCTGATGGGGCCCTGCAGGGGGCCTTGTGTGCAGCA
 GTGCCATCCTGAAACGGAACCTGTACTCAGATCTGCAGGCTCTTGGCTCAAAGGTCAAGGCACAAAAGAA
 GAAGATG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_026159

Insert Size: 1830 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_026159.4](#), [NP_080435.3](#)

RefSeq Size: 1942 bp

RefSeq ORF: 1830 bp

Locus ID: 67442

UniProt ID: [Q64FW2](#)

Cytogenetics: 6 C1

Gene Summary: Catalyzes the saturation of all-trans-retinol to all-trans-13,14-dihydroretinol (PubMed:15358783, PubMed:17253779, PubMed:19139408). Does not exhibit any activity toward all-trans-retinoic acid, nor 9-cis, 11-cis or 13-cis-retinol isomers (PubMed:15358783). May play a role in the metabolism of vitamin A (PubMed:15358783, PubMed:17253779). Independently of retinol conversion, may regulate liver metabolism upstream of MLXIPL/ChREBP (PubMed:28855500). Required for adipocyte differentiation in a 3T3-L1 cell culture model (PubMed:19139408). This effect seems not to mimic the in vivo situation in which animals show increased adiposity in the absence of RETSAT (PubMed:19940255). [UniProtKB/Swiss-Prot Function]