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Product datasheet for SC114021

Retinol Saturase (RETSAT) (NM_017750) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinol Saturase (RETSAT) (NM_017750) Human Untagged Clone
Tag:	Tag Free
Symbol:	Retinol Saturase
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC114021 sequence for NM_017750 edited (data generated by NextGen Sequencing)

ATGTGGCTTCCGCTGGTGCTGCTCCTGGCTGTGCTGCTGCTGGCCGTCCTCTGCAAAGTT
TACTTGGGACTATTCTCTGGCAGCTCCCCGAATCCTTTCTCCGAAGATGTCAAACGGCCC
CCAGCGCCCCTGGTAACTGACAAGGAGGCCAGGAAGAAGGTTCTCAAACAAGCTTTTTCA
GCCAACCAAGTGCCGGAGAAGCTGGATGTGGTGGTAATTGGCAGTGGCTTTGGGGGCCTG
GCTGCAGCTGCAATTCTAGCTAAAGCTGGCAAGCGAGTCCTGGTGCTGGAACAACATACC
AAGGCAGGGGGCTGCTGTCATACCTTTGGAAAGAATGGCCTTGAATTTGACACAGGAATC
CATTACATTGGGCGTATGGAAGAGGGCAGCATTGGCCGTTTTATCTTGGACCAGATCACT
GAAGGGCAGCTGGACTGGGCTCCCCTGTCCTCTCCTTTTGACATCATGGTACTGGAAGGG
CCCAATGGCCGAAAGGAGTACCCCATGTACAGTGGAGAGAAAGCCTACATTCAGGGCCTC
AAGGAGAAGTTTCCACAGGAGGAAGCTATCATTGACAAGTATATAAAGCTGGTTAAGGTG
GTATCCAGTGGAGCCCCTCATGCCATCCTGTTGAAATTCCTCCCATTGCCCGTGGTTCAG
CTCCTCGACAGGTGTGGGCTGCTGACTCGTTTCTCTCCATTCCTTCAAGCATCCACCCAG
AGCCTGGCTGAGGTCCTGCAGCAGCTGGGGGCCTCCTCTGAGCTCCAGGCAGTACTCAGC
TACATCTTCCCCACTTACGGTGTCACCCCCAACCACAGTGCCTTTTCCATGCACGCCCTG
CTGGTCAACCACTACATGAAAGGAGGCTTTTATCCCCGAGGGGGTTCCAGTGAAATTGCC
TTCCACACCATCCCTGTGATTCAGCGGGCTGGGGGCGCTGTCCTCACAAAGGCCACTGTG
CAGAGTGTGTTGCTGGACTCAGCTGGGAAAGCCTGTGGTGTCAGTGTGAAGAAGGGGCAT
GAGCTGGTGAACATCTATTGCCCCATCGTGGTCTCCAACGCAGGACTGTTCAACACCTAT
GAACACCTACTGCCGGGGAACGCCCGCTGCCTGCCAGGTGTGAAGCAGCAACTGGGGACG
GTGCGGCCCGGCTTAGGCATGACCTCTGTTTTCATCTGCCTGCGAGGCACCAAGGAAGAC
CTGCATCTGCCGTCCACCAACTACTATGTTTACTATGACACGGACATGGACCAGGCGATG
GAGCGCTACGTCTCCATGCCCAGGGAAGAGGCTGCGGAACACATCCCTCTTCTCTTCTTC
GCTTTCCCATCAGCCAAAGATCCGACCTGGGAGGACCGATTCCCAGGCCGGTCCACCATG
ATCATGCTCATACCCACTGCCTACGAGTGGTTTGAGGAGTGGCAGGCGGAGCTGAAGGGA
AAGCGGGGCAGTGACTATGAGACCTTCAAAAACTCCTTTGTGGAAGCCTCTATGTCAGTG
GTCCTGAAACTGTTCCCACAGCTGGAGGGGAAGGTGGAGAGTGTGACTGCAGGATCCCCA
CTCACCAACCAGTTCTATCTGGCTGCTCCCCGAGGTGCCTGCTACGGGGCTGACCATGAC
CTGGGCCGCCTGCACCCTTGTGTGATGGCCTCCTTGAGGGCCCAGAGCCCCATCCCCAAC
CTCTATCTGACAGGCCAGGATATCTTCACCTGTGGACTGGTCGGGGCCCTGCAAGGTGCC
CTGCTGTGCAGCAGCGCCATCCTGAAGCGGAACTTGTACTCAGACCTTAAGAATCTTGAT
TCTAGGATCCGGGCACAGAAGAAAAAGAATTAG

Clone variation with respect to NM_017750.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_017750 unedited
GACTCTCTATAGGGCGGCCGCGAATTCGGCACGAGGGACGCCGGCGTGATGTGGCTTCCG
CTGGTGCTGCTCCTGGCTGTGCTGCTGCTGGCCGTCCTCTGCAAAGTTTACTTGGGACTA
TTCTCTGGCAGCTCCCCGAATCCTTTCTCCGAAGATGTCAAACGGCCCCCAGCGCCCCTG
GTAACTGACAAGGAGGCCAGGAAGAAGGTTCTCAAACAAGCTTTTTCAGCCAACCAAGTG
CCGGAGAAGCTGGATGTGGTGGTAATTGGCAGTGGCTTTGGGGGCCTGGCTGCAGCTGCA
ATTCTAGCTAAAGCTGGCAAGCGAGTCCTGGTGCTGGAACAACATACCAAGGCAGGGGGC
TGCTGTCATACCTTTGGAAAGAATGGCCTTGAATTTGACACAGGAATCCATTACATTGGG
CGTATGGAAGAGGGCAGCATTGGCCGTTTTATCTTGGACCAGATCACTGAAGGGCAGCTG
GACTGGGCTCCCCTGTCCTCTCCTTTTGACATCATGGTACTGGAAGGGCCCAATGGCCGA
AAGGAGTACCCCATGTACAGTGGAGAGAAAGCCTACATTCAGGGCCTCAAGGAGAAGTTT
CCACAGGAGGAAGCTATCATTGANCAGTATATAAAGCTGGTTAAGGTGGTATCCAGTGGA
GCCCCTCATGCCATNNNCTGTGAANTCCTCCCATTGCCCGTGGTTCAGCTCCTCGACAGG
TGTGGGCTGCTGACTCGNTNCTCTCCATTCCTTCAGCATCCACCCANACCTGGCTGANGT
CCTGCAGCAGCTGGGGGCCTNCTCTGAGCTCAGGCAGTACTCAGCTACATCTTCCCACTT
ACGGTGTCACCCCCAACACAGTGCCTTTTCCATGCACGCCNTGCTGGTCAACACTACATG
AAGGGAGCTTTATCCCCGAGGGGTNCAGTGAANNTGCTNACAACATCCTGTGATCACGGN
CTGGGGCGCTGTCTACAAGGCCATGGCCAGGGGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_017750 unedited
GAGCCAGGGGTACACAGGGCATGCCACCCGGGTATCTGTTCAGAAACAGCTATGACCGCG
GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGAAGCAATGGAATCAATAAATTT
ATTAATGTTACATTAACACGAACTACAAAGAGACCTTTCGTATGTCTGATACCAAAGACA
TAACTGAAAAGTCATTTTTCCAAACCTTGAGCTTGCATTCACCTACCTGTCTAACCCTCA
CATGTGCTAATTAACTGCAAATGCCATTTCTGGGCTTCACACACATTCCGTGGCTTTCCC
TTTTCTGATGTGACTTCCCTCCCTTACCCCACACCTCCCTGCACTGTCCCCTGCTGTGCC
CTTGGCTGGAATGCCCTGCAGCCTGCTTCAGCCCAGCAAAGTATTCATCTTACCAGTCCA
TGCCCTGACTCCTGATGTCACCCTTCCCTGCATCACCCTTCCCTGTGTATTTGGTGGATA
AGGCTTGATTGAGGCTCAGGTACTGAGTCCCTGCTGGCACATTGAGAACCAGCTGCCACC
CCGATGATNAGGAAGACAGACCCGGGACTTCCATATGAATTGGATATGATCATCTGACAT
GCACCCTACTAACTGATGGATCCTGCTGTTACCCCAAAGCTCAGACCACACTGGCCAGAC
ACAGGCATTTCCTGTCCCCTGAAGAGCCACTGAACCCAGCACAAAAGAGATCTAGAGCTC
TCCAAACTATGGNATGGCACCCAAAACCTGCCCCAGTTTTGANTAAAGCTCATTATCTCC
CTTTCCCTTGACAGTGTAAACTGTGCAGCGTNCNCTAATGAATGAGAGCAGAAGCTCAGA
CAGAACG

Restriction Sites: NotI-NotI

ACCN: NM_017750

Insert Size: 3000 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_017750.2, NP_060220.2
RefSeq Size:	3001 bp
RefSeq ORF:	1833 bp
Locus ID:	54884
UniProt ID:	Q6NUM9
Cytogenetics:	2p11.2
Protein Families:	Transmembrane
Protein Pathways:	Retinol metabolism
Gene Summary:	Catalyzes the saturation of all-trans-retinol to all-trans-13,14-dihydroretinol. Does not exhibit any activity toward all-trans-retinoic acid, nor 9-cis, 11-cis or 13-cis-retinol isomers. May play a role in the metabolism of vitamin A. Independently of retinol conversion, may regulate liver metabolism upstream of MLXIPL/ChREBP. May play a role in adipocyte differentiation. [UniProtKB/Swiss-Prot Function]