

Product datasheet for **MR218435**

Stra6 (NM_001162479) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stra6 (NM_001162479) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stra6
Synonyms:	A1891933
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR218435 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTCCCAGGCATCTGAGAATGGAAGCCAGACCTCCTCCGGGTGACAGATGACTACAGCAGCTGGT
ACATCGAGGAACCTCTAGGAGCTGAGGAGGTGCAGCCAGAGGGGTGATTCCCCTTTGCCAGCTACCCGC
ACCCCTGCCCTGCTCCATGCCTGCCTGGCTTCACTGTCGTTCTGGTTCTGCTGCTGCTGGCCTTGCTG
GTGAGACGGCGCAGGCTTTGGCCACGCTGTGGTATCGCGGACTTGGACTGCCAGCCCTGTGGATTCT
TGGCTGGGACCTATCCTGGACAGTGCCTGCTGCTGTCTTTGGTCTCTTTCAGCAACCTATGCCTGTT
GCTCCCTGATGAGAACCCTGCCTTCTGAACCTCACTGCAGCATCAAGTCCAGATGGAGAGATGGAG
ACATCAAGAGGGCCCTGGAAGCTACTGGCTGCTGCTACTATCCAGCCCTCTATTACCCTCTGGCTGCTT
GTGCTTCGGCAGGCACCAAGCTGCATTCTATTGGGACTGTGTTATCTTGGGCCACTTTGGTGTCA
GGTCTGGCAGAAAGCTGAGTGTCTCAGGATCCTAAGATCTACAAGCACTACTCCTTGTGTCCTCCCTG
CCTCTACTTCTGGGTCTTGGATTCTGAGCCTTTGGTATCCAGTACAACCTGTGCAGAGTCTCCGTACC
CGACAGGAGCAGGCTCCAGGGCTGCAGACCAGCTACTCCGAGAAGTATCTGAGAACTTCTCTGCCC
AAAGAAGTTGGATAGCTGCTCCCATCCTGCCTCCAAGCGTAGCCTCCTGTCTCGGGCCTGGGCCTTCTCC
CATCATTCCATCTACACTCCACAGCCAGGATCCGCCTGCCCTTGAAGCTGGTGTCTCGGCCACCCCTGA
CAGGAACAGCCACTTACCAGGTGGCCCTGCTGCTGCTGGTGGAGCGTGGTGCCTACTGTGCAGAAGGTGAG
GGCGGGGATCAACACAGATGTCTCTACCTGCTGGCTGGCTTTGGGATCGTGCTCTCTGAAGACAGGCAG
GAGGTGGTAGAGCTGGTGAAGCATCACCTATGGACTGTGGAAGCATGCTACATCTCAGCTCTGGTCTTGT
CCTGCGCATCAACCTTCTGCTCCTGATCCGATCCCTGAGGACACACAGGGCCAATCTTCAAGCACTACA
CCGAGGGGCTGCCCTGGATCTGGACCCCTCTTTCAGAGTATTTCATCCCTCTCGCCAAGCCATAGTCAGC
TGGATGAGCTTCTGTGCCTACCAGACGGCCTTCACTGCTGCTTGGGCTCCTGGTGCAGCAGGTCTATCTT
TCTTGGGGACCACATCCCTGGCCTTCTGGTGTGTTGTGCCTTACTGCATGGCAGGAACCTCCTGCTGCT
GCGATCCCTGGAATCCACGTGGCCCTTCTGGCTGACTGTGGCCTTAGCTGTAATCCTGCAGAACATAGCA
GCCAAGTGGATCTTCTGAGGACTCACCATGGATACCCAGAGCTGACCAACCGGCGCATGCTCTGCGTAG
CTACTTTCTCCTTCCCCATCAACATGCTGGTGGGAGCCATAATGGCTGTCTGGCGGGTGTCTCATCTC
TTCTCTACAACACTGTTACCTCGGCCAGATGGACCTCAGCCTGCTGCCGAGAGGGCAGCCTCCCTG
GATCCAGGCTACCACACATACCAAACTTCTGAGGATTGAGGCCAGCCAGTACATCCAGGAGTCATAG
CCTTCTGTGCCCTGCTCCTCCATGCTCCAAGTCCACAGCCCGGCCCCATTGGCCCTCAGGACAGCCT
CAGGCCGCGAGAAGAAGAAGGGATGCAGTTGCTACAGACCAAGGACCTGATGGCCAAGGGAGCAGGA
CACAAAGGCAGCCAGAGCAGGGCCCGCTGGGGTCTGGCCTACACATTGCTCCACAATCCAAGCCTACAGG
CCTTCCGAAGGCAGCCCTTACTAGTGCCAAGGCAATGGCACCCAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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_001162479.1](#), [NP_001155951.1](#)

RefSeq Size: 2889 bp

RefSeq ORF: 2013 bp

Locus ID: 20897

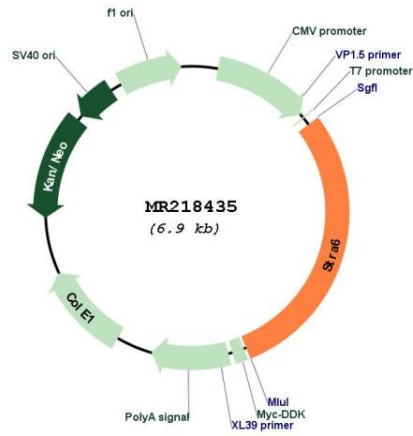
UniProt ID: [O70491](#)

Cytogenetics: 9 B

MW: 73.7 kDa

Gene Summary: Functions as retinol transporter (PubMed:23839944, PubMed:24852372). Accepts all-trans retinol from the extracellular retinol-binding protein RBP4, facilitates retinol transport across the cell membrane, and then transfers retinol to the cytoplasmic retinol-binding protein RBP1. Retinol uptake is enhanced by LRAT, an enzyme that converts retinol to all-trans retinyl esters, the storage forms of vitamin A (By similarity). Contributes to the activation of a signaling cascade that depends on retinol transport and LRAT-dependent generation of retinol metabolites that then trigger activation of JAK2 and its target STAT5, and ultimately increase the expression of SOCS3 and inhibit cellular responses to insulin (PubMed:21368206, PubMed:23839944). Important for the homeostasis of vitamin A and its derivatives, such as retinoic acid and 11-cis-retinal (PubMed:22467576, PubMed:24852372). STRA6-mediated transport is particularly important in the eye, and under conditions of dietary vitamin A deficiency (PubMed:22467576, PubMed:23839944, PubMed:24852372). Does not transport retinoic acid (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218435