

Product datasheet for **MR218391**

Stra6 (NM_009291) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stra6 (NM_009291) 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:

>MR218391 representing NM_009291
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGTCCCAGGCATCTGAGAATGGAAGCCAGACCTCCTCCGGGTGACAGATGACTACAGCAGCTGGT
 ACATCGAGGAACCTCTAGGAGCTGAGGAGGTGCAGCCAGAGGGGTGATTCCCTTTGCCAGCTACCCGC
 ACCCCCTGCCCTGCTCCATGCCTGCCTGGCTTCACTGTCGTTCTGGTTCTGCTGCTGGCCTTGCTG
 GTGAGACGGCGCAGGCTTTGGCCACGCTGTGGTCATCGCGGACTTGGACTGCCAGCCCTGTGGATTCT
 TGGCTGGGACCTATCCTGGACAGTGCCTGCTGCTGTCTTTGGTCTCTTTCAGCAACCTATGCCTGTT
 GCTCCCTGATGAGAACCCTGCCTTCTGAACCTCACTGCAGCATCAAGTCCAGATGGAGAGATGGAG
 ACATCAAGAGGGCCCTGGAAGCTACTGGCTGCTGCTACTATCCAGCCCTCTATTACCCTCTGGCTGCTT
 GTGCTTCGGCAGGCACCAAGCTGCATTCTATTGGGACTGTGTATCTTGGGCCACTTTGGTGTCA
 GGTCTGGCAGAAAGCTGAGTGTCTCAGGATCCTAAGATCTACAAGCACTACTCCTTGTGTCCTCCCTG
 CCTCTACTTCTGGGTCTTGGATTCTGAGCCTTTGGTATCCAGTACAACCTGTGCAGAGTCTCCGTACC
 CGACAGGAGCAGGCTCCAGGGGCTGCAGACCAGCTACTCCGAGAAGTATCTGAGAACTTCTCTGCC
 AAAGAAGTTGGATAGCTGCTCCCATCCTGCCTCCAAGCGTAGCCTCCTGTCTCGGGCCTGGGCCTTCTCC
 CATCATTCCATCTACACTCCACAGCCAGGATCCGCCTGCCCTTGAAGCTGGTGTCTCGGCCACCCCTGA
 CAGGAACAGCCACTTACCAGGTGGCCCTGCTGCTGCTGGTGGAGCGTGGTGCCTACTGTGCAGAAGGTGAG
 GCGGGGATCAACACAGATGTCTCTACCTGCTGGCTGGCTTTGGGATCGTGTCTCTGAAGACAGGCAG
 GAGGTGGTAGAGCTGGTGAAGCATCACCTATGGACTGTGGAAGCATGCTACATCTCAGCTCTGGTCTTGT
 CCTCGCATCAACCTTCTGCTCCTGATCCGATCCCTGAGGACACACAGGGCCAATCTTCAAGCACTACA
 CCGAGGGGCTGCCCTGGATCTGGACCCCTCTTTCAGAGTATTTCATCCCTCTCGCCAAGCCATAGTCAGC
 TGGATGAGCTTCTGTGCCTACCAGACGGCCTTCACTGCTGCTTGGGCTCCTGGTGCAGCAGGTCTCTTCT
 TCTTGGGACCACATCCCTGGCCTTCTGGTGTGTTGTGCCTTACTGCATGGCAGGAACCTCCTGCTGCT
 GCGATCCCTGGAATCCACGTGGCCCTTCTGGCTGACTGTGGCCTTAGCTGTAATCCTGCAGAACATAGCA
 GCCAACTGGATCTTCTGAGGACTCACCATGGATACCCAGAGCTGACCAACCGGCGCATGCTCTGCGTAG
 CTACTTTCTCCTTCTCCCATCAACATGCTGGTGGGAGCCATAATGGCTGTCTGGCGGGTGTCTCATCTC
 TTCTCTACAACACTGTTACCTCGGCCAGATGGACCTCAGCCTGCTGCCGAGAGGGCAGCCTCCCTG
 GATCCAGGCTACCACACATACCAAACTTCTGAGGATTGAGGCCAGCCAGTACATCCAGGAGTCATAG
 CCTTCTGTGCCCTGCTCCTCCATGCTCCAAGTCCACAGCCCGGCCCCATTGGCCCTCAGGACAGCCT
 CAGGCCGCGAGAAGAAGAAGAAGGGATGCAGTTGCTACAGACCAAGGACCTGATGGCCAAGGGAGCAGGA
 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_009291.2](#), [NP_033317.2](#)

RefSeq Size: 3054 bp

RefSeq ORF: 2013 bp

Locus ID: 20897

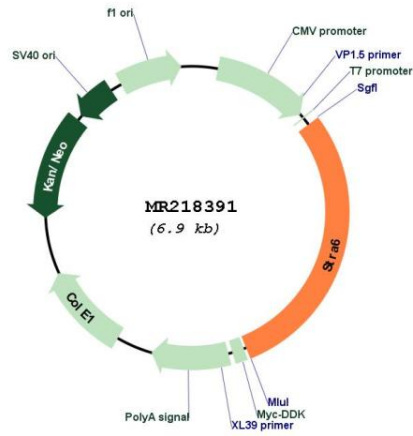
UniProt ID: [O70491](#)

Cytogenetics: 9 B

MW: 74.2 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 MR218391