

Product datasheet for **RN210912**

Stra6 (NM_001029924) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stra6 (NM_001029924) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Stra6
Synonyms:	RGD1307551
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN210912 representing NM_001029924
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAATCCCAGGCCTCTGAGAATGGAAGCCAGACCTCCTCCGGGTGACAGATGACTACAGCAGCTGGT
 ACATCGAGGAACCTCTAGGAGCTGAGGAGTGCAGCCAGAGGGGTGAATCCCCTTTGCCAGCCACTGT
 ACCGCCTGCCCTGCACCATGCCTGCTTGGCCTCACTGTCGCTCCTGGCTCTGCTGCTGGCCTTACTG
 GTGAGACGTGCGAGGCTTTGGCCACACTGTGCTATTGCAGACCTGGACTGCCAGCCCTGTGGATTCT
 TGGCTGGGAACCGATCCTGGACAGTTCTACTGCTGTCTTTGGCCCTTTCAGCAATCTGTGCCTGTT
 GCTCCCTGATGAGAACCCTGCCTTCTGAACCGCACTGCAGCATCCAGTCCAGATGGAGAGCCGGAG
 ACATCAAGAGGGCCCTGGAAGCTCCTGGCTCTGCTCTACTACCCAGCCCTCTACTACCCTCTGGCTGCCT
 GTGCTACGGCAGGGCACCAGCTGCATACTACTGGGTACTGTGCTATCTGGGTTACAGTCAGTGTTC
 GGTCTGGCAGAGAGCAGAGTGTCTCAGGACCCCAAGATCTACAAGCACTACTCCTTGTGGCCTCCCTG
 CCTCTGCTTCTGAGTCTTGGATTCTGAGCCTTTGGTATCCAGTACAAGTGGTGCAGAGTATCCGTCATC
 GGACAGGAGCAGGCTCCAGGGGTACAGACCAGCTACTCCGAGAAGTATCTGAGAGCCCTCCTCTGTCC
 AAAGAAGCTGGACAGCTGCTCCCATCCCGCTCCAAGCGTAGCCTTCTGTCTCGGGCTTGGGCCTTTTCC
 CAGCATTCCATCTACACTCCAGAGCCAGGATTCTGCCTGCCCTTGAAGCTGGTGTCTCGGCCACCCTGA
 CAGGAACAGCCACTTACCAGGTGGCCCTGCTGTTGCTGGTGGAGCGTGGTGCCTACTGTGCAGAAGGTGAG
 GGCAGGGATCACACAGATGTCTCTACCTGCTGGCGGGCTTTGGGATTGTGCTCTCTGAAGACAGGCAG
 GAGGTGGTAGAGCTGGTGAAGCATCACCTATGGGCCGTGGAAGCATGTTATATCTCAGCTCTGGTCTTGT
 CCTGCTCATTAACTTCTGCTTCTGATCCGCTCCCTGAGGACTCACAGGGCCAATCTTAAAGCACTGCA
 CCGAGGGGCTGCCCTGGATCTGGGTCCCTCTTCCAGAGTACTACCCCTCTCGCCAAGCCATAGTCTGC
 TGGATGAGCTTCACTGCCTACCAGACGGCTTCACTGCTGCTTGGGCTCCTGGTGCAGCAGGTCATCTTCT
 TCTGGGGACCACAATCCTGGCCTTCTAGTGTGTTGTCCTTACTCCATGGTAGGAACCTCTTGTCTCT
 CCGGTCCCTGGAATCCACATGGCCCTTCTGGCTGACTCTGGTCTTGGCTGTAATCCTGCAGAACATAGCA
 GCCAATTGGGTCTTCTAGAGTCTACCCAGGATACCCGGAGCTGACCAACCGGCGCATGCTCTGCGTAG
 CCCTTTTCTTCTTCCCCATCAACATGCTGGTGGGAGCCATAATGGCTATTTGGCGGGTCTCCTCTC
 TTCTCTACAACACTGTTACCTCGGCCAGATGGACCTCAGCCTGCTGCCGAGAGAGCTGCCTCCCTG
 GATCCAGGCTATCACACATACCGAACTTCTGAGGATTGAGGCCAGCCAGTACACCCAGGAGTATAG
 CCTTCTGTGCCCTGCTCCTTATGTGCCAAGTCCACAGCCCAAGCCCACTGGCCCCCAGGACAGCCT
 CAGACCAGCAGAGAAGAAGAAGGTATGCAATTGCTACAGACCAAGGACCTGATGGCCAAGGAGAGGAG
 CCCAAAGGCAGCCGAGCAGGGCCCGGTGGGGTCTGGCCTACACATTGCTCCACAACCAAGTCTGCAGG
 CCTTTCGGAAGGCAGCCCTTACTAGTGCCAAGGCAATGGCACCCAGCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001029924
- Insert Size:** 2013 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:	<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:	<u>NM_001029924.1, NP_001025095.1</u>
RefSeq Size:	2722 bp
RefSeq ORF:	2013 bp
Locus ID:	363071
UniProt ID:	<u>Q4QR83</u>
Cytogenetics:	8q24
Gene Summary:	Functions as retinol transporter. 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. 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. Important for the homeostasis of vitamin A and its derivatives, such as retinoic acid. STRA6-mediated transport is particularly important in the eye, and under conditions of dietary vitamin A deficiency. Does not transport retinoic acid.[UniProtKB/Swiss-Prot Function]