

Product datasheet for **SC123973**

STRA6 (NM_022369) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STRA6 (NM_022369) Human Untagged Clone
Tag:	Tag Free
Symbol:	STRA6
Synonyms:	MCOPCB8; MCOPS9; PP14296
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC123973 sequence for NM_022369 edited (data generated by NextGen Sequencing)

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ATGTCGTCCCAGCCAGCAGGGAACCAGACCTCCCCGGGGCCACAGAGGACTACTCCTAT
GGCAGCTGGTACATCGATGAGCCCCAGGGGGCGAGGAGCTCCAGCCAGAGGGGGAAGTG
CCCTCTGCCACACCAGCATACCACCCGGCCTGTACCACGCTGCCTGGCCTCGCTGTCA
ATCCTTGTGCTGCTCCTGGCCATGCTGGTGAGGCGCCGACGCTCTGGCCTGACTGT
GTGCGTGGCAGGCCCGCCTGCCAGCCCTGTGGATTTCTTGGCTGGGGACAGGCCCCGG
GCAGTGCCTGCTGCTGTTTTATGGTCCCTGAGCTCCCTGTGTTTGTGCTCCCCGAC
GAGGACGCATTGCCCTTCTGACTCTCGCCTCAGCACCCAGCAAGATGGGAAAAGTGA
GCTCCAAGAGGGGCTGGAAGATACTGGGACTGTTCTATTATGCTGCCCTCTACTACCT
CTGGCTGCCTGTGCCACGGCTGGCCACACAGCTGCACACCTGCTCGGCAGCACGCTGTCC
TGGGCCACCTTGGGGTCCAGGTCTGGCAGAGGGCAGAGTGTCCCAGGTGCCAAGATC
TACAAGTACTACTCCCTGCTGGCCTCCCTGCCTCCTGCTGGGCTCGGATTCTGAGC
CTTTGGTACCCTGTGCAGCTGGTGAGAAGCTTCAGCCGTAGGACAGGAGCAGGCTCCAAG
GGGCTGCAGAGCAGCTACTCTGAGGAATATCTGAGGAACCTCCTTTCAGGAAGAAGCTG
GGAAGCAGCTACCACACCTCCAAGCATGGCTTCCTGTCCCTGGGCCCGCGTCTGCTTGAGA
CACTGCATCTACACTCCACAGCCAGGATTCCATCTCCCGCTGAAGCTGGTGTCTTTCAGCT
ACACTGACAGGGACGGCCATTTACCAGGTGGCCCTGCTGCTGCTGGTGGGCGTGGTACCC
ACTATCCAGAAGGTGAGGGCAGGGGTACCACGGATGTCTCCTACCTGTGGCCGGCTTT
GGAATCGTGCTCTCCGAGGACAAGCAGGAGGTGGTGGAGCTGGTGAAGCACCATCTGTGG
GCTCTGGAAGTGTGCTACATCTCAGCCTTGGTCTGTGCTGCTTACTCACCTTCTGGTC
CTGATGCGCTCACTGGTGACACACAGGACCAACCTTCGAGCTCTGCACCGAGGAGCTGCC
CTGGACTTGAGTCCCTTGCATCGGAGTCCCCATCCCTCCCGCAAGCCATATTCTGTTGG
ATGAGCTTCAGTGCCTACCAGACAGCCTTTATCTGCCTTGGGCTCCTGGTGCAGCAGATC
ATCTTCTTCTGGAACACGGCCCTGGCCTTCTGGTGTCTATGCCTGTGCTCCATGGC
AGGAACCTCCTGCTCTTCCGTTCCCTGGAGTCTCGTGGCCCTTCTGGCTGACTTTGGCC
CTGGCTGTGATCCTGCAGAACATGGCAGCCATTGGGTCTTCTGGAGACTCATGATGGA
CACCCACAGCTGACCAACCGGCGAGTGCTCTATGCAGCCACCTTCTTCTTCCCCCTC
AATGTGCTGGTGGTGCCATGGTGGCCACCTGGCGAGTGCTCCTCTGCCCCTTACAAC
GCCATCCACCTTGGCCAGATGGACCTCAGCCTGCTGCCACCGAGAGCCGCACTCTGCAC
CCCGGCTACTACAGTACCGAACTTCTTGAAGATTGAAGTCAGCCAGTCGCATCCAGCC
ATGACAGCCTTCTGCTCCCTGCTCCTGCAAGCGCAGAGCCTCCTACCCAGGACCATGGCA
GCCCCCAGGACAGCCTCAGACCAGGGGAGGAAGACGAAGGGATGCAGCTGCTACAGACA
AAGGACTCCATGGCAAGGGAGCTAGGCCCGGGGCCAGCCGCGGAGGGCTCGCTGGGGT
CTGGCCTACACGCTGCTGCACAACCCAACCTGCAGGTCTTCCGCAAGACGGCCCTGTTG
GGTGCCAATGGTGCCAGCCCTGA

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Clone variation with respect to NM_022369.3

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_022369 unedited CATT TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGAGGCTGGGGGA GGGGCTCAAGGGAGCCCAGCTGGGAGGGCCAGGCAGGCAGTGC GGAGCTGGCCGTGGGC TGCCTACCCTTTTCATCTCTGCAACTCCTCCTCCCTGGGCCTCCCTTCTGGAGAAGGGCC AGAGAATGTCGTCCCAGCCAGCAGGGAACCAGACCTCCCCGGGGCCACAGAGGACTACT CCTATGGCAGCTGGTACATCGATGAGCCCAGGGGGCGAGGAGCTCCAGCCAGAGGGGG AAGTGCCCTCCTGCCACACCAGCATACCACCCGGCCTGTACCACGCCTGCCTGGCCTCG TGTCAATCCTTGTGCTGCTGCTCCTGGCCATGCTGGTGAGGCGCCGACGCTCTGGCCTG ACTGTGTGCGTGGCAGGCCCGGCCTGCCAGCCCTGTGGATTTCTGGCTGGNGACAGGC CCCGGGACGTGCCTGCTGCTGTTTTTCATGTGCCTCCTGAGCCCCCTGTGTGTGCGCGG TTCCCCGACGAGGACGCATTGCCCTTTCTGACTCTCGCCTCAGCACCCAGCCAAGATGGG AAAACTGAGGCTCCAAGAGGGGCTGGAAGATACTGGGACTGGTCTATTATGCTGCCCTC TACTACCTCTGGCTGCCTGTGCCACGGCTGGCCACACAACCTGCACACCTGCTCGGCAGC ACGCTGCTCGGGCCACCTTGGGGTCCAGTCTTGCCNAAGGCA
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_022369 unedited CCGTGCAACTCCGGGCCAGGAGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGA TCTGTTCAAGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTGGTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCAGGAACAAGTTTATTGCAGGGAA CACACTAACCTCTTTCATAATACCCAAAGGCATAAAAACTACAAAATATCTGGCTCTCG AGTGTGGGACGCTCAGTGTGGGACCTGGTCTTGAGTCATGACTTGGGCTGCCCTGCAGGC CAAAGGCCCGGGAGCTTCCGGCCACTCCCAAAGAGGTCGGTGGCCCTGAGGGGTGAG GAAGTGCCTTGGCTGCTCCACAGCGTGAAGGCCAAGGCTGAGGTGGACCTGGGCTGGAT TGGTTCCAAAAAAGGCTTCATCGAGGCCCTTCAAGGCTGATGGCAAAGCCAGGGTAGGGA GACCCCTGGATGTGGCTGCCCTGGCTCAACTGGCTCCTGGACCAAGGCCCTAACCCACCA GTTTTTTCTCCAAAACCCCTGCTGGCTCTCCCATAGCCAAGTGGGTGGAGCAGAGCCCT CCTGAGGCTCCCAAGTGCAAAACAGACCTCCCCCAACCCAGTTGTTCCGGAAGACCTGTTG GCTGCATGGCTTGGGTAATCCTGGAAGGAAACCCGGGAGGGAGGTTGTAGGCAAGAA CATTGCTCAACCAAGATGGCAGGTGGGTGGCCTTCCTGCCTCAGG
Restriction Sites:	NotI-NotI
ACCN:	NM_022369
Insert Size:	2800 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_022369.2</u> , <u>NP_071764.2</u>

RefSeq Size: 2820 bp

RefSeq ORF: 2004 bp

Locus ID: 64220

UniProt ID: [Q9BX79](#)

Cytogenetics: 15q24.1

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene is a membrane protein involved in the metabolism of retinol. The encoded protein acts as a receptor for retinol/retinol binding protein complexes. This protein removes the retinol from the complex and transports it across the cell membrane. Defects in this gene are a cause of syndromic microphthalmia type 9 (MCOPS9). Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]
Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 8. The resulting isoform (a) is shorter at the N-terminus compared to isoform f. Variants 1, 2, and 3 all encode the same isoform (a).