

Product datasheet for **SC303921**

Homeobox protein SIX6 (SIX6) (NM_007374) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Homeobox protein SIX6 (SIX6) (NM_007374) Human Untagged Clone
Tag:	Tag Free
Symbol:	Homeobox protein SIX6
Synonyms:	MCOPCT2; ODRMD; OPTX2; Six9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_007374 edited
 TGGCGCACTCAGCCAGGCCCGGGCATCTGCTGCGTGTCCCGCTCCGGGCTCAGTGCCC
 TCGCCGCGCCGCGCACTGCCTCGATGTTCCAGCTGCCCATCTTGAATTTAGCCCCAGC
 AAGTGGCCGGGTATGTGAGACCCTGGAAGAGAGCGCGATGTGGAGCGCTGGTTCGCT
 TCCTCTGGTCGCTGCCCGTGGCCCTGCGGCCTGCGAGGCCCTCAACAAGAATGAGTCGG
 TGCTACGCGCACGAGCCATCGTGGCCTTTCACGGTGGCAACTACCGCGAGCTCTATCATA
 TCCTGGAAAACCAAGTTCACCAAGGAGTCGACGCAAGCTGCAGGCGCTGTGGCTTG
 AAGCACACTACCAGGAGGCTGAGAAGCTGCGTGGAAAGACCCTGGGACCTGTGGACAAGT
 ACCGAGTAAGGAAGAAGTCCCCTGCCGCGCACCATTTGGGACGGCGAACAGAAGACAC
 ACTGCTTCAAGGAGCGCACGCGAACCTGCTACGCGAGTGGTACCTGCAGGATCCATAACC
 CTAACCCAGCAAAAACGTGAGCTCGCCAGGCAACCGGACTGACCCCTACGCAGGTGG
 GCAACTGGTTCAAAAACCGCCGACAAAGGACCGAGCGGCTGCAGCCAAGAACAGACTCC
 AGCAGCAGGTCTGTACAGGGTTCGGGCGGGCACTACGGGCGGAGGGGACGGCACGC
 CAGAGGTGCTGGGCGTCGCCACCAGCCCGGCCAGTCTATCCAGCAAGGCGGCCACTT
 CAGCCATCTCCATCACGTCCAGCGACAGCGAGTGCACATCTGAGTTGCCCATCCAGGAT
 GCTCAGAAGCAGATTCAGTGTA AAAACGAGAAAAACAAAATGAAAGAGGGGAAGAAGAT
 GAGAGACCTGCAA

Restriction Sites: Please inquire

ACCN: NM_007374

Insert Size: 900 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).



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OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_007374.1.
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_007374.1</u> , <u>NP_031400.1</u>
RefSeq Size:	1391 bp
RefSeq ORF:	741 bp
Locus ID:	4990
UniProt ID:	<u>O95475</u>
Cytogenetics:	14q23.1
Gene Summary:	The protein encoded by this gene is a homeobox protein that is similar to the Drosophila 'sine oculis' gene product. This gene is found in a cluster of related genes on chromosome 14 and is thought to be involved in eye development. Defects in this gene are a cause of isolated microphthalmia with cataract type 2 (MCOPCT2). [provided by RefSeq, Jul 2008]