

Product datasheet for MR222921

Six6 (NM_011384) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Six6 (NM_011384) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Six6
Synonyms:	Opt; Optx2; Si; Six9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222921 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCAGCTGCCCATTTTGAATTTTCAGCCCCAGCAAGTAGCCGGGTATGTGAGACCCTGGAGGAAA
GCGGCGAGCTGGAGCGCCTAGGTCGCTTCTATGGTCGCTGCCCGTGGCCCCAGCAGCTTGTGAAGCCCT
TAACAAGAATGAGTCGGTCTGCGAGCGAGGCCATCGTGGCTTCCACGGTGGCAACTACCGGAGCTT
TATCATATCCTGAAAAATCATAAGTTTACTAAGGAATCGCACGCCAAGCTGCAGGCGCTGTGGCTCGAAG
CGCATTACCAGGAGGCAGAGAAGCTGCGTGGACGGCCCTAGGGCCAGTAGACAAGTACCGAGTAAGGAA
GAAGTTCCCGCTGCCGCGGACATTTGGGATGGCGAACAGAAGACTCACTGCTTCAAGGAGCGCACGCGG
CACCTGCTTCGAGAGTGGTACCTTCAGGACCCATATCCCAACCCAGCAAAAAGCGAGAGCTCGCCAGG
CAACCGGACTGACCCCCACACAGGTGGGCAACTGGTTCAAAAACCGCAGACAAAGAGACCGGGCAGCTGC
AGCCAAAAACAGACTCCAGCAGCAGGTTCTGTGCGAGGGCCCCGGCGGGTGCTACGCTCGGAGGGTGAG
GGAACGCCTGAGGTGTTGGGCGTCGCCTCCAGCCCGGCTGCCAGTCTGTGAGCAAGCGGCCACTTCGG
CCATCTCCATCACATCCAGCGACAGTGAGTGCGACATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222921 protein sequence
 Red=Cloning site Green=Tags(s)

MFQLPILNFSPPQQVAGVCETLEESGDVERLGRFLWSLPVAPAACEALNKNESVLRARAIVAFHGGNYREL
 YHILENHKFTKESHAKLQALWLEAHYQEAELRGRPLGPVDKYRVRKKFPLPRTIWDGEQKTHCFKERT
 HLLREWYLQDPYPNPSKKRELAQATGLTPTQVGNWFKNRRQRDRAAAAKNRLQQQVLSQGPGRVLRSEGE
 GTPEVLGVASSPAASLSSKAATSAISITSSDSECDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011384

ORF Size: 741 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_011384.5](#), [NP_035514.1](#)

RefSeq Size: 3956 bp

RefSeq ORF: 741 bp

Locus ID: 20476

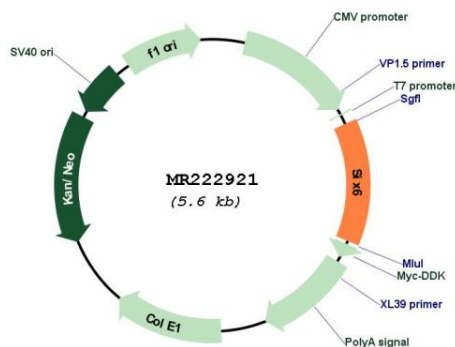
UniProt ID: [Q9QZ28](#)

Cytogenetics: 12 C3

MW: 27.7 kDa

Gene Summary: This gene encodes 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 12 and is thought to be involved in eye development. The encoded transcription factor regulates early progenitor cell proliferation during mammalian retinogenesis and pituitary development. Mice lacking this gene exhibit abnormal development of the suprachiasmatic nucleus and circadian rhythms. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR222921