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Product datasheet for MR203850

Six1 (NM_009189) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Six1 (NM_009189) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Six1
Synonyms:	BB138287
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR203850 representing NM_009189
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGATGCTGCCGTCGTTTGGTTTTACGCAAGAGCAAGTGGCGTGCGTGTGCGAAGTTCTGCAGCAAG
GAGGGAACCTGGAACGCCTGGGCAGGTTCTTGTGGTCGTTGCCCGCCTGCGATCACCTGCACAAGAACGA
GAGCGTGCTCAAGGCCAAGGCGGTGGTCGCCTTCCACCGCGGCAACTTCCGCGAGCTCTACAAGATACTG
GAGAGCCACCAGTTCTCGCCTCACAATCACCCCAAACTGCAGCAGCTGTGGCTGAAAGCGCACTACGTGG
AGGCCGAGAAACTTCGCGGCCGACCCCTGGGTGCCGTGGGCAAATATCGGGTGCGCCGAAAATTCCCGTT
GCCGCGGACCATCTGGGACGGCGAGGAGACCAGCTACTGCTTTAAGGAGAAGTCTCGGGGCGTGCTGCGG
GAGTGGTACGCGCACAACCCCTACCCCTCACCGAGGGAGAAACGGGAGCTGGCCGAGGCCACCGGCCTCA
CCACCACCCAGGTCAGCAACTGGTTTAAGAACCGGAGGCAAAGAGACCGGGCCGCCGAGGCCAAGGAAAG
GGAGAACACCGAAAACAATAACTCCTCCTCCAACAAGCAGAATCAACTCTCTCCTCTGGAAGGGGGCAAG
CCGCTCATGTCCAGCTCAGAAGAGGAGTTCTCACCCCCCCAAAGTCCAGACCAGAACTCGGTCCTTCTGC
TCCAGAGCAATATGGGCCACGCCAGGAGCTCAAACTATTCTCTTCCAGGCCTCACAGCCTCCCAGCCCAG
CCACGGTCTGCAAGCCCATCAGCACCAGCTCCAGGACTCTCTGCTGGGCCCACTCACCTCCAGTTTGGTG
GACTTGGGTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>MR203850 representing NM_009189
Red=Cloning site Green=Tags(s)

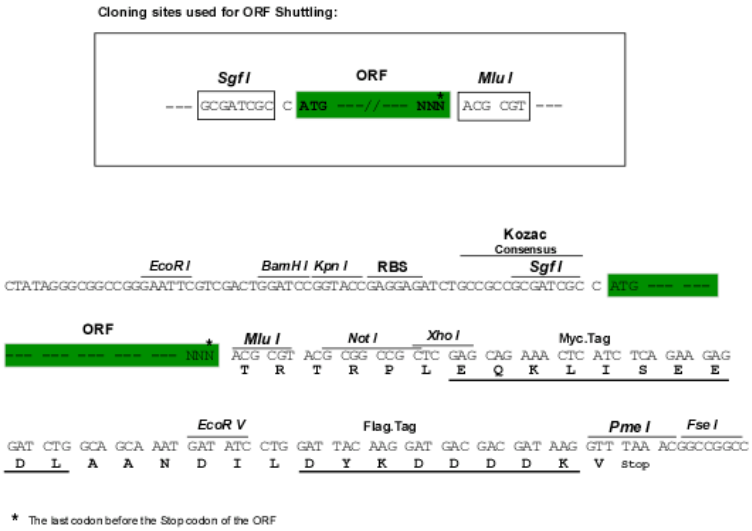
MSMLPSFGFTQEQVACVCEVLQQGGNLERLGRFLWSLPACDHLHKNESVLKAKAVVAFHRGNFRELYKIL
ESHQFSPHNHPKLQQLWLKAHYVEAEKLRGRPLGAVGKYRVRRKFPLPRTIWDGEETSYCFKEKSRGVLR
EWYAHNPYPSPREKRELAEATGLTTTQVSNWFKNRRQRDRAAEAKERENTENNNSSSNKQNQLSPLEGGK
PLMSSSEEEFSPPQSPDQNSVLLLQSNMGHARSSNYSLPGLTASQPSHGLQAHQHQLQDSLLGPLTSSLV
DLGS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_009189

ORF Size:

852 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

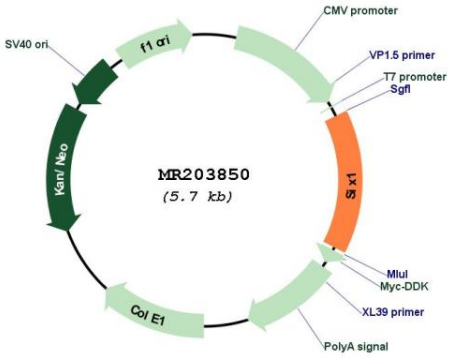
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
RefSeq:	NM_009189.3
RefSeq Size:	2601 bp
RefSeq ORF:	855 bp
Locus ID:	20471
UniProt ID:	Q62231
Cytogenetics:	12 30.34 cM
MW:	32.7 kDa
Gene Summary:	Transcription factor that is involved in the regulation of cell proliferation, apoptosis and embryonic development. Plays an important role in the development of several organs, including kidney, muscle and inner ear. Depending on context, functions as transcriptional repressor or activator. Lacks an activation domain, and requires interaction with EYA family members for transcription activation. Mediates nuclear translocation of EYA1 and EYA2. Binds the 5'-TCA[AG][AG]TTNC-3' motif present in the MEF3 element in the MYOG promoter. Regulates the expression of numerous genes, including MYC, CCNA1, CCND1 and EZR. Acts as activator of the IGFBP5 promoter, probably coactivated by EYA2. Repression of precursor cell proliferation in myoblasts is switched to activation through recruitment of EYA3 to the SIX1-DACH1 complex. During myogenesis, seems to act together with EYA2 and DACH2. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203850