

Product datasheet for MR225149

Sox15 (NM_009235) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sox15 (NM_009235) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sox15
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR225149 representing NM_009235
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCTGACCAGCTCCTCACAAGCAGAGACTTGGAGCCTGCATCCTCGGGCTTCCACGGCCTCTTTGC
 CTTTAGGACCCCAGGAGCAGGAGGCCGGCGGGAGCCCTGGAGCGTCTGGGGGACTTCCGCTGGAGAAGGT
 GAAGCGGCCCATGAACGCCTTCATGGTGTGGAGCTCTGTTACGCGCCGCCAGATGGCGCAGCAGAACCCC
 AAGATGCACAACCTCTGAGATCTCCAAGCGCTTGGCGCTCAGTGAAGCTGCTGGCGCATGAAGAGAAGC
 GACCTTCGTGGAGGAGGCTAAGCGTCTTCGTGCCGCCACCTCCGCGACTATCCCGACTACAAGTACCG
 ACCCGGGCGTAAGAGCAAAAACCTCGAGCACCGGTCTGTCCCCTTAGCCAAGAAGGAGGTGGCCTGGCA
 TGTGGTGGCTCACACTGGGGCCAGGTACACAACCTACCAAGGGAGCAGAGGCTTTGGGTACCAGCCCC
 CCAACTATTGACAGCCTACCTGCCTGGCAGTTACACCTCTTCCACTGCAGACCGGAGGCCCTTACC
 ATGCACCTTCCCTCAGAGTGATCCAGGCTCCAGGGGAGCTAAGACCCTTTTCCCCTTACCTATCC
 CCAGACTTCCACTCCATAATACTTCCCTTGTGGAGCCCCATGCCAGTAACCCACCTT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225149 representing NM_009235
 Red=Cloning site Green=Tags(s)

MALTSSSQAETWSLHPRASTASLPLGPQEQEAGGSPGASGGLPLEKVKRPMNAFMWSSVQRRQMAQQNP
 KMHNSEISKRLGAQWKL LGDEEKRPFVEEAKRLRARHLRDYKYPYRPRKSKNSSTGSPVFSQEGGGLA
 CGGSHWGPYTTTQSGRFGYQPPNYSTAYLPGSYTSSHRPEAPLPCTFPQSDPRLQGELRPSFSPYLS
 PDSSTPYNTSLAGAPMPVTHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mm9058_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009235

ORF Size: 693 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.

RefSeq: [NM_009235.2](#), [NP_033261.1](#)

RefSeq Size: 1156 bp

RefSeq ORF: 696 bp

Locus ID: 20670

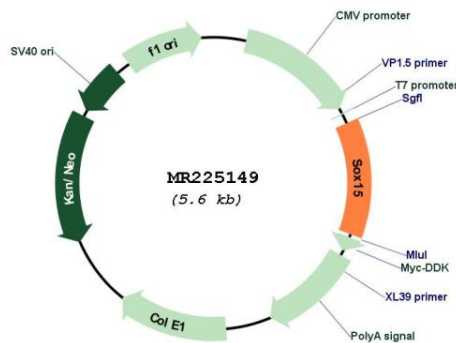
UniProt ID: [P43267](#)

Cytogenetics: 11 42.86 cM

MW: 25.3 kDa

Gene Summary: Transcription factor that binds to DNA at the 5'-ACAATG-3' consensus sequence (PubMed:10821863, PubMed:15863505, PubMed:16759287, PubMed:17363903). Acts as a transcriptional activator and repressor (PubMed:10821863, PubMed:15863505, PubMed:16759287). Binds synergistically with POU5F1 (OCT3/4) to gene promoters (PubMed:15863505). Binds to the FOXX1 promoter and recruits FHL3, resulting in transcriptional activation of FOXX1 which leads to myoblast proliferation (PubMed:17363903). Acts as an inhibitor of myoblast differentiation via transcriptional repression which leads to down-regulation of the muscle-specific genes MYOD and MYOG (PubMed:10821863). Involved in trophoblast giant cell differentiation via enhancement of HAND1 transcriptional activity (PubMed:16759287). Regulates transcription of HRC via binding to its proximal enhancer region (PubMed:15863505). Involved in skeletal muscle regeneration (PubMed:15367664, PubMed:17363903). Also plays a role in the development of myogenic precursor cells (PubMed:15367664).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225149