

Product datasheet for MR222085

Sp5 (NM_022435) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sp5 (NM_022435) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sp5
Synonyms:	MGC144801; MGC144802
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222085 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCTGTGGCCGTCTCCGGAACGACTCACTGCAGGCCTTCTCCAGGACCGCACCCCAGCGCCT
CCCCGGACCTGGCAAGCACTCGCCCTGGCGTGCTGGCCGCCACCTGTAGCCGGATCGGCCAGCCCGG
CGCTGCGGCGGCACCCGACTTCTTCAGGTGCCCTATGACCCAGCGCTGGGTTACCCCTCCAGACTTTTC
CACCTTGGACTGCCGACATGCCCGCGCACTCGCCAGGCGCCCTGCCGCCACACCCCAGCCTGGGGC
TGACGCCGAGAAAACACACCTGCAGCCGTCTTCGGGGCAGCCACGAGCTCCCGCTCAGCCCCCGC
GGATCCGTCGTACCTTACGAGTTCTCGCCGGTCAAGATGCTGCCCTCGAGCATGGCTGCCTGCCTGCC
AGCTGCGCGCCCGCTACGTGCCCTACGCCGCGCAGGCCGCGTTGCCCGGGGCTACTCCAACTGCTGC
CCCCGCGCGCCACCGCTCCACCGCCACCTGCCGCCAGTTATCCCCGCCCCGGCTCCGGACGACCT
CCCCTGGTGGAGCATCCCGCAATCGGGCGCGGGCCGGGGAGCTCCGGGGTTCCAGGGACCAGCCTCTCC
AGCGCCTGTGCCGACCTCCCCACGCTCCCGCTTCCCTGCCAGCCGCGCTGCTGCAGCGCGGGCTG
CTGCCCTGCAACGGGGTCTAGTGTGGGCCCGTCGGACTTTCACAGTACCAGAGCCAGATCGCCGCGCT
GCTGCAGACCAAGGCCCCCTGGCGGCCAGGCCAGGAGGTGCCCGCGCTGCCCTGCCCAACTGCCAG
GCGGCTGGCGGTGCCCGGAGGCGGAACCGGGCAAAAAGAACAACAGTGTGCCAGTGCCAGGCTGTG
GCAAGGTGTACGGCAAAACGTCGCACCTGAAGGCGCACCTGCGCTGGCACAGGGCGAGCGCCCTTCGT
GTGCAACTGGCTCTTCTGCGGCAAGAGCTTACGCGCTCGGACGAGCTGCAGCGGCACCTGCGGACTCAC
ACGGGCGAGAAGCGCTTCCGTTGTCCCAGTGGCGAAACGCTTCATGCGAAGCGATCACCTCGCCAAGC
ACGTGAAGACGCACAAAATAAGAAGCTCAAAGTCGCTGAGGCCGGGTGAAGCGGGAGAATCCGCGGGA
CCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR222085 protein sequence
 Red=Cloning site Green=Tags(s)

MAAVAVLRNDSLQAF LQDRTPSASPDLGKHSPLALLAATCSRIGQPAAAAPDFLQVPYDPALGSPSRLF
 HPWTADMPAHSPGALPPPHPSLGLTPQKTHLQPSFGAAHELPLTPPADPSYPYEFSPVKMLPSSMAALPA
 SCAPAYVPYAAQAALPPGYSNLLPPPPPPPPPTCRQLSPAPAPDDLPPWSIPQSGAGPGSSGVPGTSL
 SACAGPPHAPRFPASAAAAAALQRGLVLGSPSDF AQYQSQIAALLQTKAPLAATARRCRRRCPCNCQ
 AAGGAPEAEPGKKQHVCHVPGCGKVYKGTSHLKAHLRWHTGERPFVCNWLFCGKSFTRSDQLQRHLRTH
 TGEKRFACPECGKRFMRSDHLAKHVKTHQNKLLVAEAGVKRENPRDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_022435

ORF Size: 1197 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_022435.2](#), [NP_071880.1](#)

RefSeq Size: 2097 bp

RefSeq ORF: 1197 bp

Locus ID: 64406

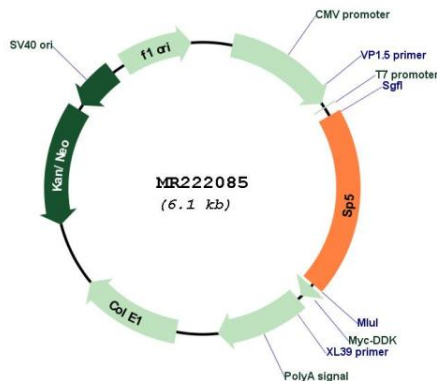
UniProt ID: [Q9JHX2](#)

Cytogenetics: 2 41.49 cM

MW: 42.1 kDa

Gene Summary: Binds to GC boxes promoters elements. Probable transcriptional activator that has a role in the coordination of changes in transcription required to generate pattern in the developing embryo.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222085