

Product datasheet for **MR223316**

Sp9 (NM_001005343) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Sp9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence: >MR223316 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCACGCTCTACTTGGGAAGAGCCACGCTTCGGAACGACCCGTTGGCCATGCTGGCGGCGACCT
 GCAACAAGATCGGCAACACGAGCCCCCTGACGACCCTGCCGAGTCCAGCGCCTTCGCCAAAGCGGCTT
 CCACCCCTGGAAGCGCTCCTCGTCCAGTGCAACCTCGGCTCCAGTCTCTCCGGCTTCGCTGGCCACG
 GGCGGCGCGGCTCGGGCAGCCTGGCGGGTGGCTCGGGAGCCGCCAACAGCGCCTTCTGCCTGGCCTCCA
 CGTCCCCACGTCGTCCGCTTCAGCAGGACTATGGCGGCTTTTCTCCAACTCGGCGGCGGCGGCGGC
 CGCGGCGGCGGCGGTGTCCCCGACGAGGCGGCGGCGGCGGCTCGGCTTCATCTCCAAGGTGCACACGACG
 GCGGCCGACGGTCTGTACCCGCGCTGGGCATGGCGCACCCGTACGAGTCGTGGTACAAGTCGGGCTTCC
 ACTCGACCCTAGCGGGCGGAGGTGACCAACGCGCGGCGTTCATCGTGGTGGGACGTGCACAGCAGCCC
 TGGGTCTGGCTGGAGTGCAGAACCCCGCGGGGGTGCAGAGCTCGCTGCACTCGGGCGCCCCCAG
 GGCTCGCTGCACTCTCAGCTGGGCACTACAACCCGACTTCAGCTCGCTCACGCACTCGGCTTCAGCT
 CCACCGGCTTCGGCTCGTCGGCGCGCGGCTTCGCACCTGCTCTCCACGAGCAGCACCTGCTGGCCCA
 GGACGGCTTCAAGCCGGTGTGCCCTCTTACTCGGACTCCAGCGCAGCGGTGGCCGCGGCGGCGGCCAGC
 GCTATGATTTTCGGCGCAGCGGCGGCGCGCGCGGGGCGAGCTCGGCGCGCTCCGCCGTCGCTACTCGG
 GCCGCGCCACCTGCGACTGCCCAACTGCCAGGAGCGGCGGCGGCTGGGTCCGGCGGCGGCGAGCCTACG
 CCGCAAGGGCTGCACAGCTGTACATCCCGGCTGTGGCAAGGTGTACGGCAAGACGTGCGACCTGAAG
 GCGCACCTGCGCTGGCACAGGGCGAGCGGCCCTTCGTGTGCAACTGGCTCTTCTCGGGCAAGCGCTTCA
 CGCGCTCGGACGAGCTGCAGCGCACCTGCGGACTCACAGGGCGAGAAGCGCTTCGCTGCCCTGTGTG
 CAACAAGCGTTTCATGCGCAGCGACACCTGAGCAAAACATTAAAGACGCACAACGGGGCGGCGGGGGC
 AAAAAGGGCAGCGACAGTGACACGGACGCCAGCAACCTGGAGACACCCGTTCCGAGTCCCCGGACCTCA
 TCCTGCACGATTCGGCGTCACTGACGCGCGGCGGCTGCGGCGGCGGCGAGGCGGCGGCGGCGGCGGCG
 AGCGGCGGCTTCGGCGGAGGCAAGGAAGTGCACCGGTCCCAACGACTCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

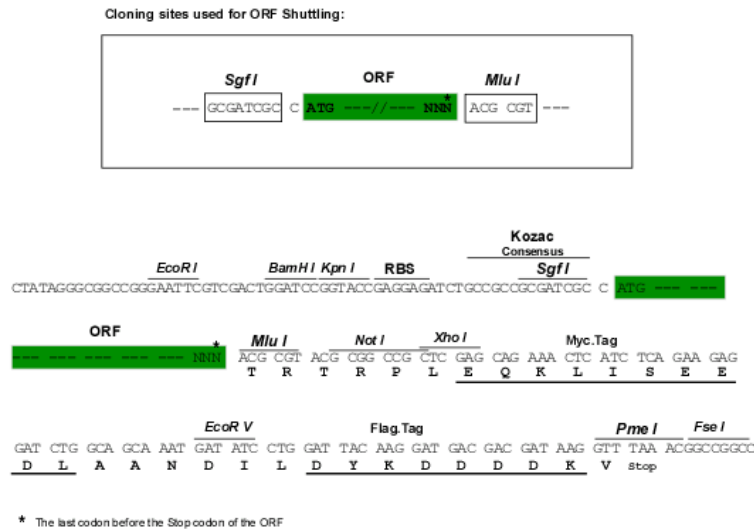
Protein Sequence: >MR223316 protein sequence
 Red=Cloning site Green=Tags(s)

MATSI LGEEPRFGTTLPLAMLAATCNKIGNTSPLTTLPESSAFKGGFHPWKRSSSSCNLGSSLSGFAVAT
 GGRGSGSLAGGSGAANSFAFLASTSPTSSAFSSDYGGLF SNSAAAAAAAAAGVSPQEAGGQSAFISKVHTT
 AADGLYPRVGMHPYESWYKSGFHSTLAAGEVTNGAASSWWDVHSSPGSWLEVQNPAGGLQSSLHSGAPQ
 ASLHSQLGTYNPDFSSLTHSAFSSSTGLGSSAAAASHLLSTSQHLLAQDGFKPVLPYSYDSSAAVAAAAAS
 AMISGAAAAAGSSARSARRYSGRATCDPCNQCERLGPAGASLRKGLHSCHIPGCGKVVYKTSHLK
 AHLRWHTGERPFVCNWLFCGKRFTRSDELQRHLRTHTGEKRFACPVCKRFRMSDHL SKHIKTHNGGGG
 KKGSDSDTDASNLETPRSESPDLILHDSGVSAARAAAAAAAAAAAAAAAAASAGGKEAATGPND

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001005343

ORF Size: 1452 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.

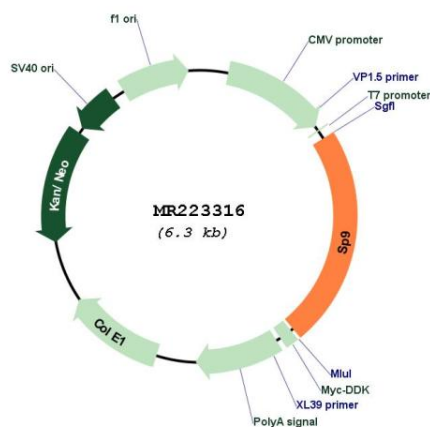
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001005343.2](#), [NP_001005343.1](#)

RefSeq Size: 2813 bp
RefSeq ORF: 1455 bp
Locus ID: 381373
UniProt ID: [Q64HY3](#)
Cytogenetics: 2 C3
MW: 49 kDa

Gene Summary: Transcription factor which plays a key role in limb development. Positively regulates FGF8 expression in the apical ectodermal ridge (AER) and contributes to limb outgrowth in embryos.
 [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223316