

Product datasheet for **MR221914**

Sp8 (NM_177082) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sp8 (NM_177082) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sp8
Synonyms:	D930049B17Rik; mBtd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR221914 representing NM_177082
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTTGTCTGCTACCTGTAATAAGATCGGCAGCCCCAGCCGCTCCCTCCTCCCTGTCCGACAGCTCTT
 CTTCTTCGGTAAAGGCTTCCACCCTTGAAACGCTCCTCGTCTTCTCCTCCGGCAGCTGCAACGTAGT
 GGGTTCAGTCTCTCTAGCTTCGGTGTGTCCGGGGCTCCCGAACGGCGCTCCTCCTCAGCCGACGC
 GCGGCAGCGCGGCAGCAGCGGGCGCCGACCCCTGGTGTCCGACTCTTTTAGCTGCGGAGGCTCGCCG
 GCTCCAGCGCCTTCTCTCACCTCCAGCAGCGCCGCGCAGCGGCAGCAGCTGCGGGCGCTGCCGCTT
 CAGCTCGCCCTTTGCCAACGACTACTCTGTGTTCCAGGCTCCGGGCGTCTCGGGGGCAGCGGGCGGC
 GGGGGGGAGGCGGGCGGTTCCGGAGCGCACTCGCAGGATAGTCCCATCAGCCAGTGTATATCTCCA
 AGGTGCACACGTCGGTGGACGGACTGCAGGATATCTACCCGCGCTGGGAATGGCGACCCGTATGAGTC
 CTGGTTCAAGCCTTCGCACCCGGCCTTGGCGCCGCGGCCGACGTGGGCTCCGCGGGCGCTCCAGCTGG
 TGGGATGTGGGCGCGGGCTGGATCGACGTGCAGAACCCCAATGGGGCGGACGCTGCCCGGCTCGCTGC
 ACCCGGGCGCGGGGCTTCCAGACGTCGCTGCATTACCCGCTGGGAGGCTACAACCTCGGATTATCCGG
 CCTGAGCCACTCCGATTAGTAGCGGTGCCTCGTCGCACCTGCTCAGCCCTGCAGGACAGCACCTCATG
 GACGGTTTCAAGCCGGTATTGCCCGGCTTACCCCGATTCCGCCCGCTCGCCGCTGGCCGGCGCGGGCA
 GCTCCATGCTGAGCGCGGGGCCCGCGCGCAGTTAGGGGGTCCCACGCTCGTCCGCTCGCCGCTACTC
 CGGCCGCGCCACTTGCAGTGCACCACTGCCAGGAGGCTGAGCGGCTGGGCCAGCGGGAGCGAGCCTG
 CGTCGCAAAGGGTGCATAGCTGCCACATCCCGGGCTGCGCAAGGTGTACGGCAAGACGTCGCACCTGA
 AGGCGCACTGCGTTGGCACACCGCGAGCGCCGTTCTGTGTGCAATTGGCTGTTCTCGGTAAGCGGTT
 TACGCGCTCCGACGAGCTGCAGCGCACCTGCGGACCCACACGGGCGAGAAGCGCTTCGCTGCCCGGTG
 TGCAACAAACGCTTCATGCGCAGCGACCACTGAGCAAGCACGTGAAGACACACAGTGGTGGCGGGCT
 CGGCGGGCTCCGGCGGGCAAGAAAGGCAGCGACCCGACAGCGAGCACAGCGGGCGGGAAGCCCTCC
 TTGCCACTCCCCTGAGCTGTTGCAGCCTCCAGAGCCGGGCCACCGCAACGGCCTGGAG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221914 representing NM_177082
 Red=Cloning site Green=Tags(s)

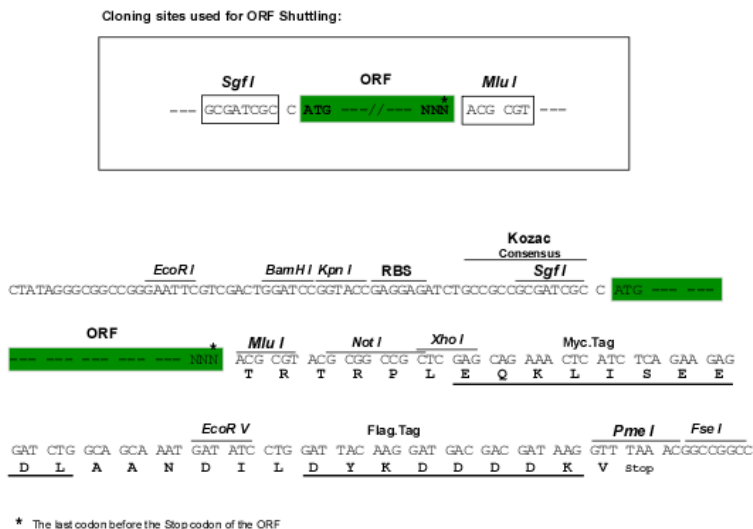
MLAATCNKIGSPSPSSSLSDSSSFSGKGFHPWKRSSSSSSGSCNVVGSLSLSSFGVSGASRNGSSSAAA
 AAAAAAAAAAALVDSFSCGGSPGSSAFSLTSSSAAAAAAAAAASSSPFANDYSVVFQAPGVSGGSGGG
 GGGGGGGSGAHSQDSSHQPVFISKVHTSVDGLQGIYPRVGMHPYESWFKPSHPGLGAAADVSGASSW
 WDVGAGWIDVQNPNGAAALPGSLHPAAGGLQTSLSHPLGGYNSDYSGLSHSAFSSGASSHLLSPAGQHLM
 DGFKPVLPGSYPDSAPSLAGAGSSMLSAGPAAQLGGSPRSSARRYSGRATCDCPNCQEERLGPAGASL
 RRGKGLHSCHIPGCGKVVYKTSHLKAHLRWHTGERPFVCNWLFCGKRFTRSDQLRHLRHTGKRFACPV
 CNKRFMRSDHLSKHVKTSHSGGGGSGSGGGKKGSDTDEHSAAGSPPCHSPELLQPPEPGHRNGLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_177082

ORF Size: 1458 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_177082.4](#), [NP_796056.2](#)

RefSeq Size: 4480 bp

RefSeq ORF: 1461 bp

Locus ID: 320145

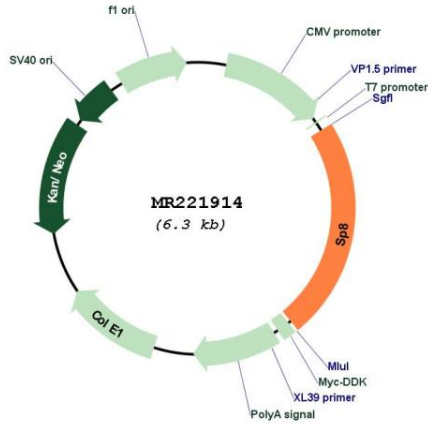
UniProt ID: [Q8BMJ8](#)

Cytogenetics: 12 F2

MW: 48.9 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 MR221914