

Product datasheet for **MR207072**

Sp8 (BC082582) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sp8 (BC082582) 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)



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ORF Nucleotide Sequence:

>MR207072 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAACTTCACCTTCTAGGGGAAGAACCAGGTTGGGATCCACTCCTCTGGCCATGCTTGCTGCTACCT
 GTAATAAGATCGGCAGCCCCAGCCCGTCTCCCTCCTCCCTGTGCGACAGCTCTTCTTCTTCGGTAAAGG
 CTTCCACCCTTGAAACGCTCCTCGTCTTCTCCTCCGGCAGCTGCAACGTAGTGGGTTCAGTCTCTCT
 AGCTTCGGTGTGTCGGGGGCTCCCGAACGGCGGCTCCTCTCAGCCGAGCGGCGGCGAGCGGCGGCGAG
 CAGCGGCGGCGCAGCCCTGGTGTCCGACTCTTTAGTGTGCGGAGGCTCGCCCGGCTCCAGCGCCTTCTC
 TCTCACCTCCAGCAGCGCCGCCGAGCGGCGAGCTGCGGCGGCTGCCGCTTCCAGCTCGCCCTTTGCC
 AACGACTACTCTGTGTTCCAGGTCCTGGGCGTCTCGGGGGCAGCGGCGGCGGCGGCGGCGGAGGCGGCG
 GCGGTTCCGAGCGCACTCGCAGGATAGCTCCCATCAGCCAGTGTATCTCAAGGTGCACACGTCGGT
 GGACGGACTGCAGGTATCTACCCGCGCTGGGAATGGCGACCCGTATGAGTCTGGTTCAGCCCTTCG
 CACCCGGGCTTGGCGCCGCGGCGACGTGGGCTCCGCGGCGCCTCCAGCTGGTGGGATGTGGGCGCGG
 GCTGGATCGACGTGCAGAACCCCAATGGGGCGGAGCGCTGCCCGGCTCGCTGCACCCGGCGGCGGCGG
 CCTTCAGACGTCGCTGCATTACCGCTGGGAGGCTACAACCTCGGATTATTCGGGCTGAGCCACTCCGCT
 CGCCGCTACTCCGGCCGCCCACTTGCAGTGCCTCAACTGCCAGGAGGCTGAGCGGCTGGGCCCAGCGG
 GAGCGAGCCTGCGTCGAAAGGGCTGCATAGTGCACATCCCGGCTGCGGCAAGGTGTACGGCAAGAC
 GTCGCACCTGAAGGCGCACCTGCGTTGGCACACCGGCGAGCGGCGGCTTGTGTGCAATTGGCTGTCTGC
 GGTAAGCGCTTACGCGCTCCGACGAGCTGCAGCGCACCTGCGGACCCACACGGGCGAGAAGCGCTTCG
 CCTGCCCGGTGTCAACAAACGCTTCATGCGCAGCGACCACTGAGCAAGCACGTGAAGACACACAGTGG
 TGGCGGCGGCTCGGCGGCTCCGCGGCGGCAAGAAAGGCAGCGACCCGACAGCGAGCACAGCGCGGCG
 GGAAGCCCTCCTTGCACTCCCCTGAGCTGTTGAGCCTCCAGAGCCGGGCCACCGCAACGGCTGGAG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

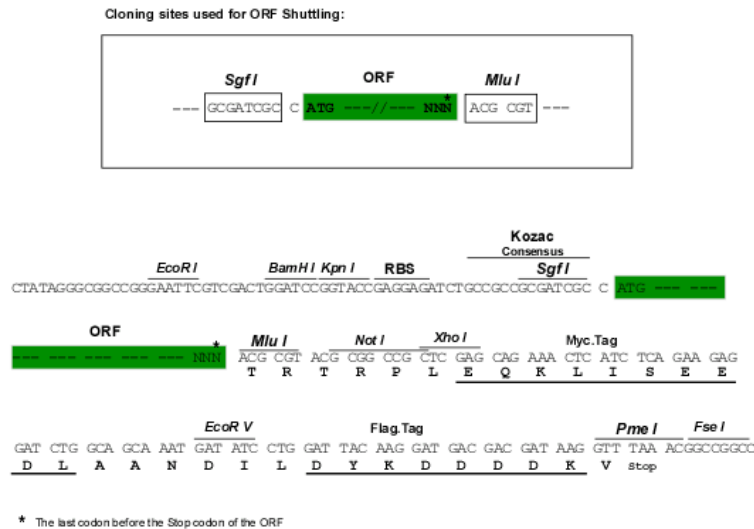
>MR207072 protein sequence
 Red=Cloning site Green=Tags(s)

MATSLLGEEPRLGSTPLAMLAATCNKIGSPSPSSSLSDSSSFSGKGFHPWKRSSSSSSGSCNVVSSLS
 SFGVSGASRNGSSSSAAAAAAAAAAAAALVDSFSCGGSPGSSAFSLTSSSSSSSSSSSSSSSSPFA
 NDYSVFQAPGVSGSGGGGGGGGGGSGAHSQDSSHQPVFISKVHTSVDGLQGIYPRVGMHPYESWFKPS
 HPGLGAAADVGSAGASSWWVDVAGWIDVQNPNGAALPGSLHPAAGGLQTSLSPLGGYNSDYSGLSHSA
 RRYSGRATCDPCNCQEAERLGPAGASLRRKGLHSCHIPGCGKVYKTSHLKAHLRWHTGERPFVCNWLFC
 GKRFTRSDQLRHLRTHTEKRFACPVCKRMRSDHLSKHVKTHSGGGGSAGSGGKKGSDTDEHSAA
 GSPPCHSPELLQPPEPGHRNGLE

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC082582

ORF Size: 1329 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.

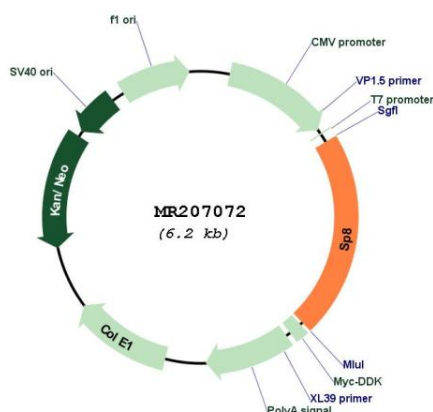
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC082582 , AAH82582
RefSeq Size:	4210 bp
RefSeq ORF:	1331 bp
Locus ID:	320145
Cytogenetics:	12 F2
MW:	44.4 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 MR207072