

Product datasheet for **MG207072**

Sp8 (BC082582) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sp8 (BC082582) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sp8
Synonyms:	D930049B17Rik; mBtd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG207072 representing BC082582 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAACTTCACTTCTAGGGGAAGAACCAGAGTTGGGATCCACTCCTCTGGCCATGCTTGCTGCTACCT
GTAATAAGATCGGCAGCCCCAGCCCGTCTCCCTCCTCCGTGCGGACAGCTCTTCTTCTTCGGTAAAGG
CTTCCACCCTTGGAAACGCTCCTCGTCTTCTCCTCCGGCAGCTGCAACGTAGTGGGTTCAGTCTCTCT
AGCTTCGGTGTGTCGGGGGCTCCCGAACGGCGGCTCCTCCTCAGCCGAGCGGCGGCAGCGGCGGCGAG
CAGCGGCGGCGCAGCCCTGGTGTCCGACTCTTTAGCTGCGGAGGCTCGCCCGGCTCCAGCGCCTTCTC
TCTCACCTCCAGCAGCGCGCCGAGCGGCAGCAGCTGCGGCGGCTGCCGCTTCCAGCTCGCCCTTTGCC
AACGACTACTCTGTGTTCCAGGCTCCGGGCGTCTCGGGGGCAGCGGCGGCGGCGGCGGGGAGGCGGCG
GCGGTTCCGGAGCGCACTCGCAGGATAGCTCCCATCAGCCAGTGTATCTCCAAGGTGCACACGTCGGT
GGACGGAATGCAGGGTATCTACCCGCGCGTGGGAATGGCGCACCCGTATGAGTCTGTTCAAGCCTTCG
CACCCGGGCTTGGCGCGCGGCGCAGCTGGGCTCCGCGGGCGCCTCCAGCTGGTGGGATGTGGGCGCG
GCTGGATCGACGTGCAGAACCCCAATGGGGCGGCAGCGCTGCCCGGCTCGCTGCACCCGGCGGCGGGGG
CCTTCAGACGTCGCTGCATTACCGCTGGGAGGCTACAACGCGATTATCCGGCCTGAGCACTCCGCT
CGCCGCTACTCCGGCGCGCCACTTGCGACTGCCCAACTGCCAGGAGGTGAGCGGCTGGGCCAGCGG
GAGCGAGCTGCGTCGCAAGGGCTGCATAGCTGCCACATCCCGGCTGCGGCAAGGTGTACGGCAAGAC
GTCGCACCTGAAGGCGCACCTGCGTTGGCACACCGGCGAGCGGCCGTTCTGTGCAATTGGCTGTTCTGC
GGTAAGCGCTTTACGCGCTCCGACGAGCTGCAGCGGCACCTGCGGACCCACAGGCGGAGAAGCGCTTCG
CCTGCCCGGTGTGCAACAAACGCTTCATGCGCAGCGACCACTGAGCAAGCACGTGAAGACACACAGTGG
TGGCGGCGGCTCGGCGGGCTCCGGCGCGGCAAGAAAGGCGAGCGACACCGACAGCGAGCACAGCGCGGCG
GGAAGCCCTCCTGCCACTCCCCTGAGCTGTTGCAGCCTCCAGAGCCGGGCCACCGCAACGCCTGGAG

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG207072 representing BC082582
 Red=Cloning site Green=Tags(s)

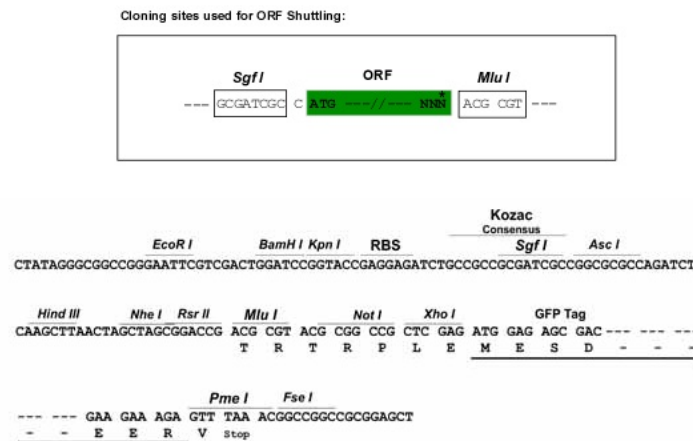
MATSLLGEEPRLGSTPLAMLAATCNKIGSPSPSPSSLDSSSSFGKGFHPWKRSSSSSSGSCNVVGSSLS
 SFGVSGASRNGSSSSAAAAAAAAAAAAALVDSFSCGGSPGSSAFSLTSSSSAAAAAAAAAASSPF
 NDYSVFQAPGVSGSGGGGGGGGGSGAHSQDSSHQPVFISKVHTSVDGLQGIYPRVGMHPYESWFKPS
 HPGLGAAADVGSAGASSWWDVGAGWIDVQNPNGAALPGSLHPAAGGLQTSLSPLGGYNSDYSGLSHSA
 RRYSGRATCDPCNCQEAERLGPAGASLRRKGLHSCHIPGCGKVYKGTSHLKAHLRWHTGERPFVCNWLFC
 GKRFTRSDQLQRHLRTHTEKRFACPVCKRFRMSDHLKHKVTHSGGGGSAGSGGGKKGSDTDSEHSAA
 GSPPCHSPELLQPPEPGHRNGLE

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2799_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC082582

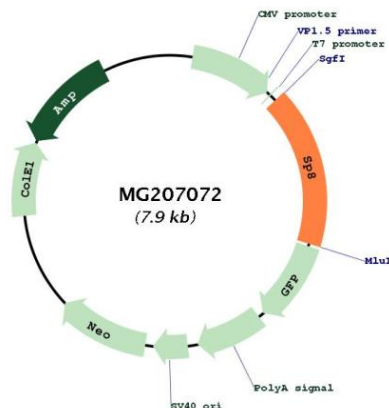
ORF Size: 1329 bp

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:	<u>BC082582</u> , <u>AAH82582</u>
RefSeq Size:	4210 bp
RefSeq ORF:	1331 bp
Locus ID:	320145
Cytogenetics:	12 F2
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 MG207072