

## Product datasheet for **MG221914**

### Sp8 (NM\_177082) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sp8 (NM_177082) 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)



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**ORF Nucleotide Sequence:**

>MG221914 representing NM\_177082  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCTTGTCTGCTACCTGTAATAAGATCGGCAGCCCCAGCCGCTCCCTCCTCCCTGTGCGGACAGCTCTT  
 CTTCTTCGGTAAAGGCTTCCACCCTTGGAAACGCTCCTCGTCTTCTCCTCCCGCAGCTGCAACGTAGT  
 GGGTTCAGTCTCTCTAGCTTCGGTGTGTGCGGGGCTCCCGGAACGGCGGCTCCTCCTCAGCCGACGC  
 GCGGCAGCGCGGCAGCAGCGGGCGCCGACCCCTGGTGTCCGACTCTTTTAGCTGCGGAGGCTCGCCCG  
 GCTCCAGCGCCTTCTCTCACCTCCAGCAGCGCCGCGCAGCGGCAGCAGCTGCGGCGGCTGCCGCTTC  
 CAGCTCGCCCTTTGCCAACGACTACTCTGTGTTCCAGGCTCCGGGCGTCTCGGGGGCAGCGGGCGGC  
 GGGGGGGAGGCGGGCGGTTCCGGAGCGCACTCGCAGGATAGTCCCATCAGCCAGTGTATATCTCCA  
 AGGTGCACACGTGGTGGACGGACTGCAGGATCTACCCGCGCTGGGAATGGCGACCCGTATGAGTC  
 CTGGTTCAAGCCTTCGCACCCGGCCTTGGCGCCGCGGCCGACGTGGGCTCCGCGGGCGCCTCCAGCTGG  
 TGGGATGTGGGCGCGGGCTGGATCGACGTGCAGAACCCCAATGGGGCGGACGCGTGCCTCCGCTCGCTG  
 ACCCGGGCGCGGGGCTTCAGACGTCTGTCATTACCCGCTGGGAGGCTACAACCTCGGATTATCCCG  
 CCTGAGCCACTCCGATTAGTAGCGGTGCCTCGTCGCACCTGCTCAGCCCTGCAGGACAGCACCTCATG  
 GACGGTTTCAAGCCGGTATTGCCCGGCTTACCCCGATTCCGCCCGTCCGCGCTGGCCGGCGCGGGCA  
 GCTCCATGCTGAGCGCGGGGCCCGCGCGCAGTTAGGGGGTCCCACGCTCGTCCGCTCGCCGCTACTC  
 CGGCCGCGCCACTTGCAGTGCCTCACTGCCAGGAGGCTGAGCGGCTGGGCCAGCGGGAGCGAGCCTG  
 CGTCGCAAAAGGCTGCATAGCTGCCACATCCCGGGCTGCGGCAAGGTGTACGGCAAGACGTCGCACCTGA  
 AGGCGCACCTGCGTTGGCACACCGCGAGCGCCGTTCTGTGCAATTGGCTGTTCTGCGTAAGCCTG  
 TACGCGCTCCGACGAGCTGCAGCGGCACCTGCGGACCCACACGGGCGAGAAGCGCTTCGCTGCCCGGTG  
 TGCAACAAACGCTTCATGCGCAGCGACCCTGAGCAAGCACGTGAAGACACACAGTGGTGGCGCGGCT  
 CGGCGGGCTCCGCGCGGCAAGAAAGGACGACACCCGACAGCGAGCACAGCGCGGGCGGAAGCCCTCC  
 TTGCCACTCCCCTGAGCTGTTGCAGCCTCCAGAGCCGGGCCACCGCAACGGCCTGGAG

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTAA

**Protein Sequence:**

>MG221914 representing NM\_177082  
 Red=Cloning site Green=Tags(s)

MLAATCNKIGSPSPSSLSLSDSSSFSGKGFHPWKRSSSSSSGSCNVVGSLSLSSFGVSGASRNGSSSAAA  
 AAAAAAAAAAALVDSFSCGGSPGSSAFSLTSSSAAAAAAAAAAAASSSPFANDYSVVFQAPGVSGGSGGG  
 GGGGGGSGAHSQDSSHQPVFISKVHTSVDGLQGIYPRVGMHPYESWFKPSHPGLGAAADVGSAGASSW  
 WDVGAGWIDVQNPNGAALPGSLHPAAGGLQTSLSPLGGYNSDYSGLSHSAFSSGASSHLLSPAGQHLM  
 DGFKPVLPGSYPDSAPSPLAGAGSSMLSAGPAAQLGGSPRSSARRYSGRATCDCPNCQEERLGPAGASL  
 RRGKLSCHIPGCGKVYKTSHLKAHLRWHTGERPFVNCNWLFCGKRFRTRSEDLQRHLRHTHTGEKRFACPV  
 CNKRFMRSDHLSKHVKTHSGGGGSGAGSGGKKGSDTDSEHSAAGSPPCHSPELLQPPEPGHRNGLE

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul



**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

**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]