

## Product datasheet for **RG212880**

### SP8 (NM\_182700) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SP8 (NM_182700) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SP8
Synonyms:	BTD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG212880 representing NM\_182700  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAACTTCACTTCTAGGGGAAGAACCAGGTTGGGATCGACTCCTCTGGCCATGCTTGGCCGCTACCT  
 GTAATAAGATAGGCAGCCCCAGCCCGTCTCCCTCCTCCCTCTCGACAGCTCTTCTTCTTCGGCAAAGG  
 CTTCCACCCTTGAAACGCTCCTCGTCCTTCTTCCGCCAGCTGCAACGTAGTGGGTTCCAGTCTCTCA  
 AGCTTCGGCGTGTCCGGGGCTCCAGGAACGGCGGCTCGTCTCGGCGGCTGCGGCGGCCGCGCAGCAG  
 CCGCGGCTGCCGCGGCCCTGGTGTCCGACTCGTTCAGTTCGCGCGGCTCGCTGGCTCCAGCGCCTTCTC  
 CCTCACCTCCAGCAGCGCCGAGCCGCCGCCGCCGCCGCGCAGCCGCCCTCCAGCTCGCCCTTCGCC  
 AACGACTACTCTGTTTTCCAGGCCCCCGGAGTTTCCGGGGCAGCGGCGGCGGCGGGGGCGGCGGGC  
 GCGGCTCTCCGCGCACTCGCAGGACGGCTCCCACCAGCCGGTGTTCATCTCAAGGTGCACACCTCTGT  
 GGACGGGCTGCAGGGCATCTACCCGCGGTTGGGATGGCGCACCCGTACGAGTCTGGTAAAGCCCTCG  
 CACCCGGGCTGGGTGCTGCGGGCGAGGTGGGCTCGGCCGGCCCTCCAGCTGGTGGGACGTGGGGGCCG  
 GCTGGATCGACGTGCAGAACCCGAACAGCGCGGCTGCGCTGCCCGGCTCGCTGCACCCTGCCCGGGGG  
 GCTCCAAACCTCGCTGCACTCGCCGCTCGGAGGCTACAACCTCGGATTACTCGGGCCTGAGTCACTCGGC  
 TTCAGCAGCGGCCCTCCTCGCACCTGCTCAGCCCCGCCGGGCGAGCACCTCATGGACGGCTTCAAGCCAG  
 TGCTACCCGGCTCCTACCCGACTCGGCCCGTTCGCCGCTGGCCGGCGCGGGGGGCTCCATGTTGAGCGC  
 TGGGCTTCGGCGCCGCTGGGGGGCTCCCCGCGCTCCTCAGCTCGCCGCTACTCCGGCCGCGCACCTGC  
 GACTGCCCAACTGCCAGGAGGAGAGCGGCTGGGCTGCCGGGGCAGCTTCCGGCGCAAGGGCCTGC  
 ACAGTGCACATCCCGGGCTGCGGCAAGGTGTACGGCAAGACTTCGCACCTCAAGGCGCACCTGCGTG  
 GCACACGGGCGAGCGGCCCTTCGTGTGCAACTGGCTTTTCTGCGGCAAGCGCTTACGCGCTCCGACGAG  
 CTGCAGCGGCACCTGCGGACCCACACCGCGGAGAGCGCTTCGCCGTGTCAGTTTGAACAAGCGTTCA  
 TGCGCAGCGACCCTCAGCAAGCACGTGAAGACGCACAGTGGCGGCGGCGGCGGCGGCTCGGCGGG  
 CTCGGGCGAGCGGCAAGAAGGGCAGCGACACCACAGCGAGCAGCGCCGCGGGCAGCCCGCCCTGC  
 CACTCCCCAGAGCTGCTGCAGCCCCCGAGCCCGGCACCGCAACGGCCTAGAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG212880 representing NM\_182700  
 Red=Cloning site Green=Tags(s)

MATSLLGEEPRLGSTPLAMLAATCNKIGSPSPSPSSLDSSSSFGKGFHPWKRSSSSSSASCNVVGSSLS  
 SFGVSGASRNGSSSSAAAAAAAAAAAAAAAAALVDSFSCGGSPGSSAFSLTSSAAAAAAAAAAAAAAAASSPFA  
 NDYSVFQAPGVSGSGGGGGGGSSAHSQDGSHPVFIKSVHTSVDGLQGIYPRVGMHPYESWFKPS  
 HPGLGAAGEVGSAGASSWVDVAGWIDVQNPNSAAALPGSLHPAAGGLQTSLSPLGGYNSDYSLSHSA  
 FSSGASSHLLSPAGQHLMDGFKPVLPGSYDPSAPSLAGAGGSMLSAGPSAPLGGSPRSSARRYSGRATC  
 DCPNCQEAERLGPAGASLRRKGLHSCHIPGCGKYYGKTSHLKAHLRWHTGERPFVNCNWLFCGKRFRSDE  
 LQRHLRHTGKRFACPVCKRFMRSDHLSKHVKTHSGGGGGGSAGSGSGGKKGSDTDEHSAAGSPPC  
 HSPELLQPPEPGHRNGLE

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

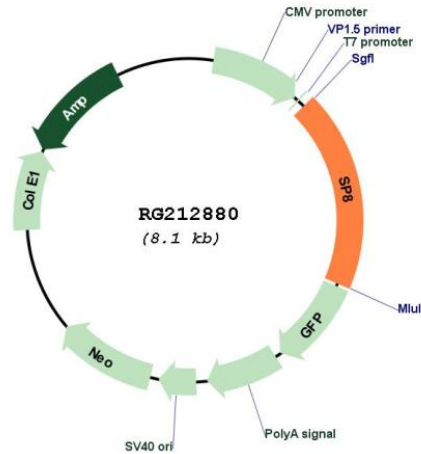
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



**ACCN:** NM\_182700

**ORF Size:** 1524 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\\_182700.6](#)

**RefSeq Size:** 3670 bp

**RefSeq ORF:** 1527 bp

**Locus ID:** 221833

**UniProt ID:** [Q8IXZ3](#)

**Cytogenetics:** 7p21.1

**Gene Summary:** The protein encoded by this gene is an SP family transcription factor that in mouse has been shown to be essential for proper limb development. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2011]