

Product datasheet for **MG207955**

Sp3 (BC027797) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sp3 (BC027797) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sp3
Synonyms:	D130027J01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207955 representing BC027797
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTGCAGGCATTAATGCCGATGGACATTTGATAAACACAGGACAAGCTATGGATAGTTCAGACAATT
 CAGAAAGGACTGGTGAGCGGTTTCCTCTGATGTTAATGAACTAATGCTGATACAGATTTATTTGTGCC
 AACATCCTCTTCATCACAGTTGCCCTGTTACAATAGATAGTACAGGTATATTACAGCAAAACACAAATAGC
 TTGACTACTACTAGTGGCAAGTCCATTCTCAGATCTTCAGGAAATTATCCAGTCGCCTGTTCTG
 AAGAGACACAGGCTCAGAATATTCAGGTTCTACAGCACAGCCTGTTGTACAACATCTACAACCTCAAGA
 TTCTCAGCAGCCAACAGTCAAGCCAAATTTGCAAGGTATTACACCACAGACAATCCATGGCGTGCAA
 GCCAGTGGTCAAATATATCACAACAGGCTTTGCAAAACCTTCAGTTGCAGCTGAATCCTGGAACCTTTT
 TAATTCAGGCACAGACAGTGACCCCTTCTGGACAGATAACTTGGCAAACATTTCAAGTACAAGGGTCCA
 GAACCTACAGAATTTGCAAAACAAAATACTGCTGCCAAACAAATTACTTTGACGCCTGTTACAGACTC
 ACGCTTGGTCAAGTCGCAGCAGGTGGAGCCTTGACTTCAACTCCAGTCAGTCTAAGCACTGGTCAGTTGC
 CAAATCTACAGACAGTTACAGTAAATTTCTATAGATTCTACTGGCATAACAGCTACATCCAGGAGAGATGC
 CGACAGTCTGCAGATATTAGGATCAAGGAAGAGGAACCTGACCCCTGAAGAATGGCAGCTCAGTGGTGAC
 TCTACACTGAACCAATGACCTAACACATTTACGAGTACAAGTGGTAGATGAAGAAGGGGACCAACAAC
 ATCAAGAAGGAAAAAGACTTCGGAGGGTAGCTTGACCTGTCCCAACTGTAAAGAAGGTGGTGGGAGAGG
 TACCAATCTTGGGAAAAAGAACACACATTTGTATACACCGGATGTGGTAAAGTCTATGGGAAGACC
 TCACATCTGAGAGCACACCTGCGTTGGCATTGGGGGAGCGCCCTTTATTTGAACTGAGATGTTCTGTG
 GTAAAAGATTTACACGAAGTGAATACAGAGGCACAGAAGAACACATACAGGTGAGAAGAAGTTTGT
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 AAAAAAGTCATTCACTCTAGCAGTACAGTGCTCGCATCTGTGAAAGCTGGAAGAGATGATGCCTTGATTA
 CTGCAGGAGGAACAACACTTATCCTTGCAAATATTCAACAGGGGTCTGTGTACAGGATAGGAACTGTCAA
 TACTTCTGCCACCAGCAATCAAGACATCCTTACCAACACTGAAATACCTTTACAGCTTGTACAGTTTCT
 GGAATGAGACAATGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207955 representing BC027797
 Red=Cloning site Green=Tags(s)

MTAGINADGHLINTGQAMDSSDNSERTGERVSPDVNETNADTDLFVPTSSSSQLPVTIDSTGILQQNTNS
 LTTTSGQVHSSDLQGNVIQSPVSEETQAQNIQVSTAQPVVQHLQLQDSQQPTSSQAQIVQGITPQTIHGVS
 ASGQNISQQALQNLQLNPNPTFLIQAQTVTPSGQITWQTFQVQGVQNLQNLQIQNTAAQQITLTPVQTL
 TLGQVAAGGALSTPVSLSSTGQLPNLQTVTVNSIDSTGIQLHPGENADSPADIRIKEEEDPEEWQLSGD
 STLNTNDLTHLRVQVDEEGDQQHQEGKRLRRVACTCPNCKEGGGRGNLGGKQHIHCHIPGCGKVVYKGT
 SHLRAHLRWHSGERPFICNWMFCGRFTRSDQLRHRRTHTGEKKFVCPESKRFMRSDHLAKHIKTHQN
 KKVIVHSSSTVLASVEAGRDDALITAGGTTILANIQQGSVSGIGTVNTSATSNQDILTNTIEIPLQLVTVS
 GNETME

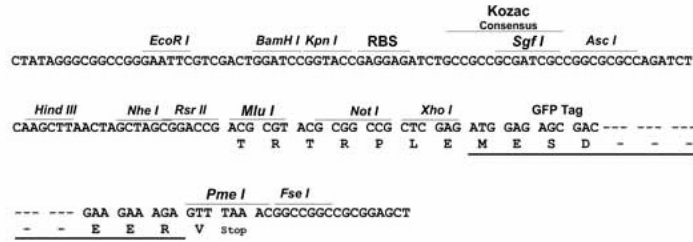
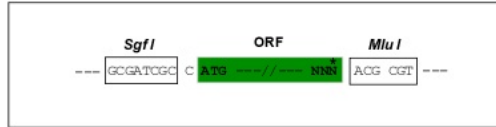
TRTRPLE - GFP Tag - V

Restriction Sites:

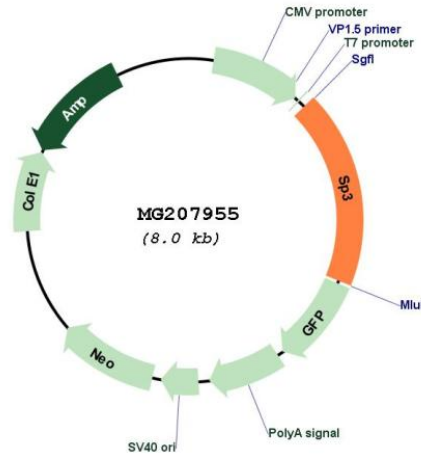
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC027797

ORF Size: 1490 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: [BC027797](#), [AAH27797](#)

RefSeq Size: 3188 bp

RefSeq ORF: 1490 bp

Locus ID: 20687

Cytogenetics: 2 C3

Gene Summary: This gene product belongs to a family of Sp1 related transcription factors, which regulate transcription by binding to consensus GC- and GT-box regulatory elements in target genes. This protein contains a zinc finger DNA-binding domain and several transactivation domains, and has been reported to function as a bifunctional transcription factor that either stimulates or represses transcription of numerous genes. Alternative splicing results in transcript variants encoding different isoforms, and one variant initiates translation from a non-AUG (AUA) codon. [provided by RefSeq, Jul 2008]