

Product datasheet for **MG210628**

Sp3 (NM_001018042) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sp3 (NM_001018042) 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:

>MG210628 representing NM_001018042
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCGCTCCGAAAAGCCCGTGAACAAGAGGAAATGGCTGCCTTGGACGTGGACGGCGCGGAGGCG
 GCGGCGGCCACGGCGAGTATCTACAGCAGCAGCAGCAACAGCAGCAGCACGGAAACGGCGCGCGGC
 GGCGGCGGCCCAGGACTCAGCCGTCACCGCTCGCTCTGCTGGCCGCTACCTGCAGCAAGATAGGGCCG
 CCATCGCCGGGCGACGACGACGAGGAGGCGGCCGTTGCCGCCGCGCGGGTCCCGCCGCCGCCGCCG
 GAGCGACAGGTGATTTGGCTTCTGCACAGTTAGGAGGAGCACAAACCGATGGGAGGTTTTGTGACGTAC
 ACCTACAATAAAAAGATGAAGCTGGTAACTAGTACAGATTCCAGGTGCTGCTACTTCAAGTGGGCGAG
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 GAAGAGATGATGCCTTGATTACTGCAGGAGGAACAACACTTATCCTTGCAAAATTTCAACAGGGGTCTGT
 GTCAGGGATAGGAACTGTCAATACTTCTGCCACCAGCAATCAAGACATCCTTACCAACACTGAAATACCT
 TTACAGCTTGTACAGTTTCTGGAATGAGACAATGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210628 representing NM_001018042
 Red=Cloning site Green=Tags(s)

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MTAPEKPKVQEEMAALDVGGGGGGGHGEYLQQQQQQQHGNGAAAAAQTQPSPLALLAATCSKIGP
PSPGDDDEEAAAAGVPAAGATGDLASAQLGGAPNRWEVL SATPTTIKDEAGNLVQIPGAATSSGQ
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GSNQTLASGTPPANIQNLIPQTGQVQVQVVAIGSSFPQQTQVVANVPLGLPGNITFVPINSVDLDSLGL
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LQQNTNSLTTTSGQVHSSDLQGNVIQSPVSEETAQNIQVSTAQPVVQHLQLQDSQQPTSQAQIVQGITP
QTIHGVAASGQNISQQALQNLQLNPGTFLIQAQTVTPSGQITWQTFQVQGVQNLQNLQIQNTAAQQIT
LTPVQTLTLGQVAAGGALTSTPVSLSGQLPNLQTVTVNSIDSTGIQLHPGENADSPADIRIKEEEDPE
EWQLSGDSTLNTNDLTHLRVQVDEEGDQHQEGKRLRRVACTCPNCKEGGGRGNLGGKKQHICHIPGC
GKVVYKGTSHLRAHLRWHSGERPFCNWMFCGKRFTRSDQLQRHRRHTGKFKVCPCKSRFMRSIDLAK
HIKTHQNKVIVHSSSTVLASVEAGRDDALITAGGTTLILANIQQGSVSGIGTVNTSATSNDILNTEIP
LQLVTVSGNETME
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001018042

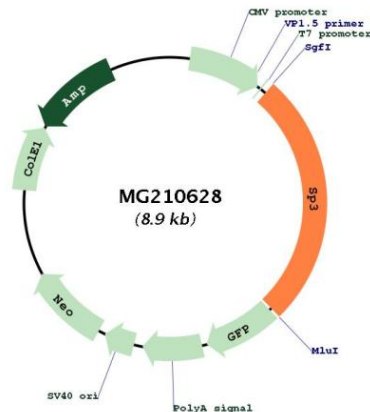
ORF Size: 4188 bp

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:	<ol style="list-style-type: none">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_001018042.3 , NP_001018052.1
RefSeq Size:	4723 bp
RefSeq ORF:	2352 bp
Locus ID:	20687
UniProt ID:	O70494
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]

Product images:



Circular map for MG210628