

Product datasheet for **MG225692**

Sp1 (NM_013672) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sp1 (NM_013672) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sp1
Synonyms:	1110003E12Rik; AA450830; A1845540; Sp1-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG225692 representing NM_013672
Red=Cloning site Blue=ORF Green=Tags(s)

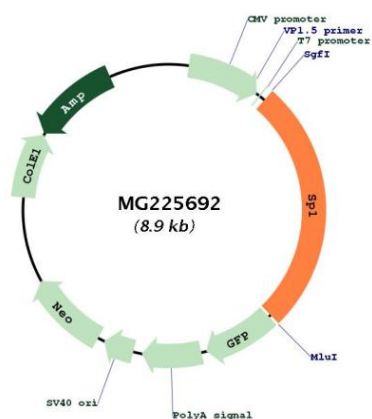
TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCGACCAAGATCACTCCATGGATGAAGTGACAGCTGTGGTGAAGATTGAAAAAGATGTTGGTGCCA
ATAATGGGGTAGCGGCAATGGTGGCGGTGCCGCTTTTCTCAGACTCGAAGCAGCAGCACAGGCAGTAG
CAGCAGCAGTGGTGGCGAGGAGGGCAGGAATCCAGCCATCTCCTTTGGCTCTGCTGGCAGCAACCTGC
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GGCCCTGAATGGGAACATCACCTTGCTACCTGTCAACAGCGTTTCTGCAGCTACCCTGACTCCCAGCTCT
CAGGCAGGCACTATCAGCAGCTCTGGATCCCAGGAGAGCAGCTCACAGCCTGTCACCTCAGGGACTGCCA
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GCTGCAGAATCTTCAAGTTCAGAACCCACAAGCCAGACAATCACCTTGGCCCCTATGCAGGGTGTTC
TTGGGGCAGACTAGCAGCAGTAATACCACCCTAACACCCATTGCCTCAGCTGCCTCCATTCTGCTGGCA
CAGTCACTGTGAATGCTGCTCAACTCTCCTCCATGCCAGGCTCCAGACCATTAACTCAGTGCATTGGG
TACTTCAGGGATCCAGGTGCACCAGCTTCCAGGCCTGCCTTTGGCTATAGCAAACACCCAGGTGATCAT
GGAACCTCAACTTGGTCTTTCATGGATCTGGTGGTATGGGATACATGATGAGACAGCAGGTGGAGAAGGAG
AGAATAGCTCTGATCTCCAACCCCAAGCTGGACGCAAGGACTCGTCGGGAAGCATGTACATGCCCCCTATTG
CAAAGACAGTGAGGGAAGAGCCTCAGGAGATCCTGGCAAAAAGAAACAGCACATTTGTCACATCCAAGGA
TGCGGCAAAGTATATGGCAAGACCTCACATCTCCGAGCACACTTGCCTGGCATAACAGGGGAGAGGCCAT
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AAGCATATCAAGACTCACAGAACAAAGAAGGGAGGCCAGGTGTAGCCCTGAGTGTGGGCACATTGCCCC
TGGACAGTGGGGCAGGTTTCAAGGCACTGCCACTCCTTTCAGCCCTTATTACCACCAATATGGTAGCCAT
GGAGGCCATCTGTCCAGAGGGTATTGCCGCTTTCGCCAACAGTGGCATCAACGTATGCAGGTGACAGAG
CTGCAGTCCATTAATATCAGTGGCAATGGTTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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:	<u>NM_013672.2</u> , <u>NP_038700.2</u>
RefSeq Size:	7818 bp
RefSeq ORF:	2346 bp
Locus ID:	20683
UniProt ID:	<u>O89090</u>
Cytogenetics:	15 F3
Gene Summary:	Transcription factor that can activate or repress transcription in response to physiological and pathological stimuli. Binds with high affinity to GC-rich motifs and regulates the expression of a large number of genes involved in a variety of processes such as cell growth, apoptosis, differentiation and immune responses. Highly regulated by post-translational modifications (phosphorylations, sumoylation, proteolytic cleavage, glycosylation and acetylation). Binds also the PDGFR-alpha G-box promoter. May have a role in modulating the cellular response to DNA damage. Implicated in chromatin remodeling. Plays a role in the recruitment of SMARCA4/BRG1 on the c-FOS promoter Plays an essential role in the regulation of FE65 gene expression (By similarity). Positively regulates the transcription of the core clock component ARNTL/BMAL1 (PubMed:24030830). Plays a role in protecting cells against oxidative stress following brain injury by regulating the expression of RNF112 (PubMed:27918959). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225692