

Product datasheet for **MR225692**

Sp1 (NM_013672) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sp1 (NM_013672) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sp1
Synonyms:	1110003E12Rik; AA450830; A1845540; Sp1-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR225692 representing NM_013672
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCGACCAAGATCACTCCATGGATGAAGTGACAGCTGTGGTGAAGATTGAAAAAGATGTTGGTGGCA
ATAATGGGGTAGCGGCAATGGTGGCGGTGCCGCTTTTCTCAGACTCGAAGCAGCAGCACAGGCAGTAG
CAGCAGCAGTGGTGGCGGAGGAGGGCAGGAATCCAGCCATCTCCTTTGGCTCTGCTGGCAGCAACCTGC
AGCAGAATTGAGTCACCCAATGAGAACAGCAACAACCTCCAGGGTCCGAGTCAGTCAGGGGGCACAGGTG
AACTTGACCTCACAGCCGACAACCTTTACAGGGTGCCAAATGGCTGGCAGATCATCTCTTCTCCTCTGG
GGCTACCCCTACCTCAAAGGAACAGAGTGGCAACAGTACCAATGGCAGCGAGTCTTCCAAGAACCGCACA
GTCTCTGGTGGCAGTATGTTGTGGCTGTACCCCAACTACAGAACCAGCAAGTCTGACAGGTCTCC
CTGGAGTAATGCCTAATATTCAGTATCAAGTAATCCACAGTTCAGACTGTTGATGGGCAGCAGCTGCA
GTTTGCTGCCACTGGGGCCAAGTGCAGCAGGATGGTTCTGGTCAAATACAGATCATACCAGGTGCAAA
CAACAGATCATCCAAATAGAGGAAGTGGGGGCAACATTATTGCTGCTATGCCAAATCTACTCCAGCAGG
CTGTCCCCCTTAAGGCCTTGCTAATAATGTGCTCTCAGGACAGACTCAGTATGTGACCAATGTACCAGT
GGCCCTGAATGGGAACATCACCTTGCTACCTGTCAACAGCGTTTCTGCAGCTACCCTGACTCCCAGCTCT
CAGGCAGGCACTATCAGCAGCTCTGGATCCCAGGAGAGCAGCTCACAGCCTGTCACCTCAGGGACTGCCA
TCAGTTCTGCCAGCTTGGTGTATCACAAGCTAGTTCAGCTCCTTTTTTACCAATGCCAATAGTTATTC
AACAACTACTACCACCAGCAACATGGGAATTATGAACTTACCAGCAGTGGCTCATCAGGGACTAGTTCT
CAAGGCCAGACGCCCCAGAGGGTTGGTGGGCTACAAGGGTCTGATTCTCTGAACATCCAGCAGAACCAGA
CATCAGGAGGCTCGTGAAGGAAGTCAAGGAAAGAGGGAGAGCAAAGTCAGCAGACACAGCAACAACA
AATCCTTATTACGCTCAGCTAGTTCAGGAGGACAAGCTCTTCCAGGCCCTTCAAGCAGCACCAATTGTCC
GGACAGACCTTCACAACTCAAGCTATTTCCAGGAAACCTTCAAGAACCTCCAGTTCAGGCTGTTCAAA
ACTCTGGTCCCATCATCATTTCGACACCAACCGTGGGGCCAATGGACAGGTGAGTTGGCAGACCCCTTCA
GCTGCAGAATCTTCAAGTTCAGAACCCACAAGCCAGACAATCACCTTGGCCCCTATGCAGGGTGTTC
TTGGGGCAGACTAGCAGCAGTAATACCACCCTAACACCCATTGCCTCAGCTGCCTCCATTCTGCTGGCA
CAGTCACTGTGAATGCTGCTCAACTCTCCTCCATGCCAGGCTCCAGACCATTAACTCAGTGCATTGGG
TACTTCAGGGATCCAGGTGCACCAGCTTCCAGGCCTGCCTTTGGCTATAGCAAACACCCAGGTGATCAT
GGAAGTCAACTTGGTCTTCAATGATCTGGTGGTATGGGATACATGATGAGACAGCAGGTGGAGAAGGAG
AGAATAGCTCTGATCTCCAACCCCAAGCTGGACGCAAGGACTCGTCGGGAAGCATGTACATGCCCCCTATTG
CAAAGACAGTGAGGGAAGAGCCTCAGGAGATCCTGGCAAAAAGAAACAGCACATTTGTCACATCCAAGGA
TGCGGCAAAGTATATGGCAAGACCTCACATCTCCGAGCACACTTGCCTGGCATAACAGGGGAGAGGCCAT
TCATGTGTAATTGGTCATATTGTGGGAAGCGCTTACACGTTTCGACGAGCTTACAGACATAAAGCTAC
ACATACAGGAGAGAAGAAATTTGCCTGCCTGAGTGCCCTAAGCGTTTCATGAGGAGTGTACCTGTCA
AAGCATATCAAGACTCACCAGAACAAGAAGGGAGGCCAGGTGTAGCCCTGAGTGTGGGCACATTGCCCC
TGGACAGTGGGGCAGGTTCAAGAGCACTGCCACTCCTTCCAGCCCTTATTACCACCAATATGGTAGCCAT
GGAGGCCATCTGTCCAGAGGGTATTGCCGCTTTCGCCAACAGTGGCATCAACGTATGCAGGTGACAGAG
CTGCAGTCCATTAATATCAGTGGCAATGGTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225692 representing NM_013672
 Red=Cloning site Green=Tags(s)

```
MSDQDHSMD EVTAVVKIEKDVGGNNGSGNGGGAAFS QTRSSSTGSSSSSGGGGGQESQPSPLALLAATC
SRIESPENSNNSQGPSQSGGTGELDL TAAQLSQGANGWQIISSSSGATPTSKEQSGNSTNGSESSKNRT
VSGGQYVVAATPNLQNQVLTGLPGVMPNIQYQVIPQFQTV DGGQLQFAATGAQVQDQDGGSGQIQIIPGAN
QQIIPNRGSGGNI IAAMPNLLQQA VPLQGLANNVLSGQTQYVTNVPVALNGNITLLPVNSVSAATLTPSS
QAGTISSSGSQESSQPVTSGTAISSASLYSSQASSSSFFTNANSYSTTTTTSNMGIMNFTSSGSSGTSS
QGQTPQRVGG LQGSDSLNIQQNQTSGGSLQGSQQKEGEQSQTQQQQILIQPQLVQGGQALQALQAAPLS
GQFTTTQAISQETLQNLQLQAVQNSGPIIIRTPTVGPNGQVSWQTLQLQNLQVQNPQAQTITLAPMQGVS
LGQTSSSNTTLP IASAASIPAGTVTVNAAQLSSMPGLQTINLSALGTSGIQVHQLPGLPLAIANTPGDH
GTQLGLHGSGGDIHDETAGGEGENSSDLQPQAGRRTREACTCPYCKDSEGRASGDPGKKKQHICHIQG
CGKVYGTSHLRAHLRWHTGERPFMCNWSYCGKRFTRSD ELQRHKRHTHTGEKKFACPECPKRFMRSDHLS
KHIKTHQNKKGPGVALSVGTLPLDSGAGSEGTATPSALITTNMVAMEAICPEGIARLANSGINVMQVTE
LQSINISGNGF
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9094_h12.zip

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_013672.2](#), [NP_038700.2](#)

RefSeq Size: 7818 bp

RefSeq ORF: 2346 bp

Locus ID: 20683

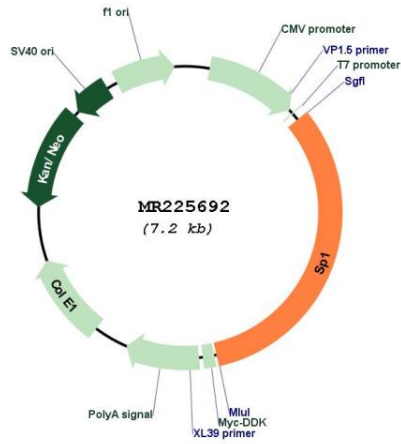
UniProt ID: [O89090](#)

Cytogenetics: 15 F3

MW: 80.4 kDa

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 MR225692