

Product datasheet for **MC221564**

Sp1 (NM_013672) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sp1 (NM_013672) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sp1
Synonyms:	1110003E12Rik; AA450830; AI845540; Sp1-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >MC221564 representing NM_013672
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGACCAAGATCACTCCATGGATGAAGTGACAGCTGTGGTGAAGATTGAAAAAGATGTTGGTGCCA
 ATAATGGGGTAGCGGCAATGGTGGCGGTGCCCTTTTCTCAGACTCGAAGCAGCAGCACAGGCAGTAG
 CAGCAGCAGTGGTGGCGGAGGAGGGCAGGAATCCAGCCATCTCCTTTGGCTCTGCTGGCAGCAACCTGC
 AGCAGAATTGAGTCACCCAATGAGAACAGCAACAACCTCCAGGGTCCGAGTCAGTCAGGGGGCACAGGTG
 AACTTGACCTCACAGCCGACAACCTTTACAGGGTGCCAAATGGCTGGCAGATCATCTCTTCTCTCTGG
 GGCTACCCCTACCTCAAAGGAACAGAGTGGCAACAGTACCAATGGCAGCGAGTCTTCCAAGAACCGCACA
 GTCTCTGGTGGCAGTATGTTGTGGCTGTACCCCAACTTACAGAACCGCAAGTCTGACAGGTCTCC
 CTGGAGTAATGCCTAATATTCAGTATCAAGTAATCCACAGTTCAGACTGTTGATGGGCAGCAGCTGCA
 GTTTGCTGCCACTGGGGCCAAGTGCAGCAGGATGGTTCTGGTCAAATACAGATCATACCAGGTGCAAC
 CAACAGATCATCCAAATAGAGGAAGTGGGGGCAACATTATTGCTGCTATGCCAAATCTACTCCAGCAGG
 CTGTCCCCCTCAAGGCCTTGCTAATAATGTGCTCTCAGGACAGACTCAGTATGTGACCAATGTACCAGT
 GGCCCTGAATGGGAACATCACCTTGCTACCTGTCAACAGCGTTTCTGCGACTACCCCTGACTCCAGCTCT
 CAGGCAGGCACTATCAGCAGCTCTGGATCCCAGGAGAGCAGCTCACAGCCTGTCACCTCAGGGACTGCCA
 TCAGTTCTGCCAGCTTGGTGTATCACAAGCTAGTTCAGCTCCTTTTTTACCAATGCCAATAGTTATTC
 AACAACTACTACCACCAGCAACATGGGAATTATGAACTTACCAGCAGTGGCTCATCAGGGACTAGTTCT
 CAAGGCCAGACGCCCCAGAGGGTGGTGGGCTACAAGGGTCTGATTCTCTGAACATCCAGCAGAACCAGA
 CATCAGGAGGCTCGTGAAGGAAGTCAAGCAAGAGGGAGAGCAAGTCAAGCAGCACCAACCAACA
 AATCCTTATTACGCTCAGCTAGTTCAGGAGGACAAGCTCTTACGGCCCTTCAAGCAGCACCAATTGTCC
 GGACAGACCTTCACAACTCAAGCTATTTCCAGGAAACCTTCAAGAACCTCCAGTTCAGGCTGTTCAAA
 ACTCTGGTCCCATCATCATTTCGACACCAACCGTGGGGCCCAATGGACAGGTGAGTTGGCAGACCCCTTCA
 GCTGCAGAATCTTCAAGTTCAGAACCCACAAGCCAGACAATCACCTTGGCCCCTATGCAGGGTGTTC
 TTGGGGCAGACTAGCAGCAGTAATACCACCCTAACACCCATTGCCTCAGCTGCCTCCATTCTGCTGGCA
 CAGTCACTGTGAATGCTGCTCAACTCTCTCCATGCCAGGCTCCAGACCATTAACTCAGTGCATTGGG
 TACTTCAGGGATCCAGGTGCACCAGCTTCCAGGCTGCCTTTGGCTATAGCAAACACCCAGGTGATCAT
 GGAATCAACTTGGTCTTTCATGGATCTGGTGGTATGGGATACATGATGAGACAGCAGGTGGAGAAGGAG
 AGAATAGCTCTGATCTCCAACCCCAAGCTGGACGAGGACTCGTCGGGAAGCATGTACATGCCCTATTG
 CAAAGACAGTGAGGGAAGAGCCTCAGGAGATCCTGGCAAAAAGAAACAGCACATTTGTCACATCCAAGGA
 TGCGGCAAAGTATATGGCAAGACCTCACATCTCCGAGCACACTTGCCTGGCATAACAGGGGAGAGGCCAT
 TCATGTGTAATTGGTCATATTGTGGGAAGCGCTTACACGTTTCGACGAGCTTACAGACATAAAGCTAC
 ACATACAGGAGAGAAGAAATTTGCCTGCCCTGAGTGCCCTAAGCGTTTCATGAGGAGTATCACCTGTCA
 AAGCATATCAAGACTCACCAGAACAGAAGGGAGGCCAGGTGTAGCCCTGAGTGTGGGCACATTGCCCC
 TGGACAGTGGGGCAGGTTCAAGAGCACTGCCACTCCTTACGCCCTTATTACCACCAATATGGTAGCCAT
 GGAGGCCATCTGTCCAGAGGGTATTGCCGCTTTCGCCAACAGTGGCATCAACGTATGCAGGTGACAGAG
 CTGCAGTCCATTAATATCAGTGGCAATGGTTTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1670_f04.zip

Restriction Sites: SgfI-MluI

ACCN: NM_013672

Insert Size: 2346 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_013672.2 , NP_038700.2
RefSeq Size:	7818 bp
RefSeq ORF:	2346 bp
Locus ID:	20683
UniProt ID:	O89090
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]