

Product datasheet for **MR225692L4V**

Sp1 (NM_013672) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Sp1 (NM_013672) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Sp1
Synonyms:	1110003E12Rik; AA450830; AI845540; Sp1-1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_013672
ORF Size:	2343 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR225692).
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.
RefSeq:	NM_013672.2 , NP_038700.2
RefSeq Size:	7818 bp
RefSeq ORF:	2346 bp
Locus ID:	20683
UniProt ID:	O89090
Cytogenetics:	15 F3



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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]