

Product datasheet for **RG227728**

SP1 (NM_003109) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP1 (NM_003109) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG227728 representing NM_003109
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGACCAAGATCACTCCATGGATGAAATGACAGCTGTGGTAAAAATTGAAAAAGGAGTTGGTGGCA
 ATAATGGGGCAATGGTAATGGTGGTGGTGCCTTTTCACAGGCTCGAAGTAGCAGCACAGGCAGTAGCAG
 CAGCACTGGAGGAGGAGGGCAGGAGTCCAGCCATCCCCTTTGGCTCTGCTGGCAGCAACTTGCAGCAGA
 ATTGAGTACCCAATGAGAACAGCAACAACTCCCAGGGCCGAGTCAGTCAGGGGAAACAGGTGAGCTTG
 ACCTCACAGCCACAACTTTCACAGGGTGCCAAATGGCTGGCAGATCATCTTCTCCTCTGGGGCTAC
 CCCTACCTCAAAGGAACAGAGTGGCAGCAGTACCAATGGCAGCAATGGCAGTGTCTTCCAAGAATCGC
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 GGGTACTTCAGGAATCCAGGTGCACCAATTCAAGGCCTGCCGTTGGCTATAGCAAATGCCCCAGGTGAT
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 CTGTCAAACATATCAAGACCCACCAGAATAAGAAGGGAGGCCAGGTGTAGCTGAGTGTGGGCATT
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 TATGGTAGCCATGGAGGCCATCTGTCCAGAGGGCATTGCCGCTTGGCAACAGTGGCATCAACGTCAATG
 CAGGTGGCAGATCTGCAGTCCATTAATATCAGTGGCAATGGCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227728 representing NM_003109
 Red=Cloning site Green=Tags(s)

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MSDQDHSMDDEMTAVVKIEKGVGGNNGGNGGGGAFSQARSSSTGSSSSTGGGGQESQPSPLALLAATCSR
IESPNENSNNNSQGPSQSGGTGELDLTATQLSQGANGWQIISSSSGATPTSKEQSGSSTNGSNGSESSKNR
TVSGGQYVVAAPNLQNQQVL TGLPGVMPNIQYQVIPQFQTVDGQQLQFAATGAQVQQDGSQIQIIPGA
NQQIITNRGSGGNI IAAMPNLLQQAVPLQGLANNVLSGQTQYVTNVPVALNGNITLLPVNSVSAATLTPS
SQAVTISSSSQESGSPVTSMTTSSASLVSSQASSSFFTNANSYSTTTTTSNMGIMNFSSGSSGTN
SQGQTPQVRVSGLQGS DALNIQQNQTSGGSLQAGQKEGEQNTQQQI LIQPQLVQGGQALQALQAAPL
SGQTFTTQAISQETLQNLQLQAVPNSGPIIIRTPTVGPNGQVSWQTLQLQNLQVQNPQAQTITLAPMQGV
SLGQTSSTNTLTPIASAASIPAGTVTVNAAQLSSMPGLQTINLSALGTSGIQVHPIQGLPLAIANAPGD
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QCGKVKYKTSHLRAHLRWHTGERPFMCTWSYCGKRFTRDELQRHKRTHTEKKFACPECKRFRMSDH
LSKHKITHQNKKGPGVALSVGTLPLDSGAGSESGTATPSALITTNMVAMEAICPEGIARLANSGINVM
QVADLQISINISGNGF
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003109

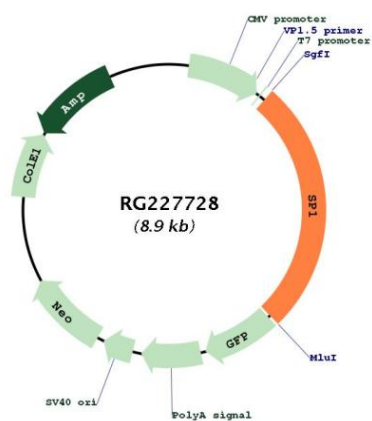
ORF Size: 2358 bp

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:	<u>NM_003109.1</u> , <u>NP_003100.1</u>
RefSeq Size:	7614 bp
RefSeq ORF:	2337 bp
Locus ID:	6667
UniProt ID:	<u>P08047</u>
Cytogenetics:	12q13.13
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Stem cell - Pluripotency, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors
Protein Pathways:	Huntington's disease, TGF-beta signaling pathway
Gene Summary:	The protein encoded by this gene is a zinc finger transcription factor that binds to GC-rich motifs of many promoters. The encoded protein is involved in many cellular processes, including cell differentiation, cell growth, apoptosis, immune responses, response to DNA damage, and chromatin remodeling. Post-translational modifications such as phosphorylation, acetylation, glycosylation, and proteolytic processing significantly affect the activity of this protein, which can be an activator or a repressor. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2014]

Product images:



Circular map for RG227728