

Product datasheet for **SC325325**

SP1 (NM_003109) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP1 (NM_003109) Human Untagged Clone
Tag:	Tag Free
Symbol:	SP1
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_003109 edited
 GGTCCGGGTTTCGCTTGCCTCGTCAGCGTCCGCGTTTTCCCGGCCCCCAACCCCC
 GGACAGGACCCCTTGAGCTTGTCCCTCAGTGCCACCATGAGCGACCAAGATCACTCCA
 TGGATGAAATGACAGCTGTGGTAAAAATTGAAAAAGGAGTTGGTGGCAATAATGGGGCA
 ATGGTAATGGTGGTGGTGCCTTTTACAGGCTCGAAGTAGCAGCACAGGCAGTAGCAGCA
 GCACTGGAGGAGGAGGGCAGGAGTCCCAGCCATCCCCTTTGGCTCTGCTGGCAGCAACT
 GCAGCAGAATTGAGTCACCCAATGAGAACAGCAACAACCTCCAGGGCCCGAGTCAGTCAG
 GGGGAACAGGTGAGCTTGACCTCACAGCCACACAACCTTTCACAGGGTGCCAATGGCTGGC
 AGATCATCTCTTCTCCTCTGGGGCTACCCCTACCTCAAAGGAACAGAGTGGCAGCAGTA
 CCAATGGCAGCAATGGCAGTGAGTCTTCCAAGAATCGCACAGTCTCTGGTGGCAGTATG
 TTGTGGCTGCCGCTCCCAACTTACAGAACCAGCAAGTTCTGACAGGACTACCTGGAGTGA
 TGCCTAATATTCAGTATCAAGTAATCCCACAGTTCAGACCGTTGATGGGCAACAGCTGC
 AGTTTGTCTGCCACTGGGGCCAAGTGCAGCAGGATGGTTCTGGTCAAATACAGATCATA
 CAGGTGCAAACCAACAGATTATCACAAATCGAGGAAGTGGAGGCAACATCATTGCTGCTA
 TGCCAAACCTACTCCAGCAGGCTGTCCCCTCCAAGCCTGGCTAATAATGTACTCTCAG
 GACAGACTCAGTATGTGACCAATGTACCAGTGGCCCTGAATGGGAACATCACCTTGCTAC
 CTGTCAACAGCGTTTCTGCAGCTACCTTGACTCCCAGCTCTCAGGCAGTACGATCAGCA
 GCTCTGGGTCCCAGGAGAGTGGCTCACAGCCTGTACCTCAGGGACTACCATCAGTTCTG
 CCAGCTTGGTATCATCACAAGCCAGTTCAGCTCCTTTTTACCAATGCCAATAGCTACT
 CAACTACTACTACCACGACCAACATGGGAATTATGAACTTTACTACCAGTGGATCATCAG
 GGACCAACTCTCAAGGCCAGACACCCAGAGGGTCACTGGGGTACAGGGGTCTGATGCTC
 TGAACATCCAGCAAAACAGACATCTGGAGGCTCATTGCAAGCAGGCCAGCAAAAAGAAG
 GAGAGCAAAAACAGCAGACACAGCAGCAACAATCTTATCCAGCCTCAGCTAGTTCAAG
 GGGGACAGGCCCTCCAGGCCCTCAAGCAGCACCAATTGTGAGGGCAGACCTTTACAACCTC
 AAGCCATCTCCAGGAAACCTCCAGAACCTCCAGCTTCAAGCTGTTCCAACTCTGGTC
 CCATCATCATCCGGACACCAACAGTGGGGCCAATGGACAGGTGAGTGGCAGACTCTAC
 AGCTGCAGAACCTCCAAGTTCAGAACCCACAAGCCCAAACAATCACCTTAGCCCCAATGC
 AGGGTGTTCCTTGGGGCAGACCAGCAGCAGCAACACCACTCTCACACCCATTGCCTCAG
 CTGCTTCCATTCTGCTGGCACAGTCACTGTGAATGCTGCTCAACTCTCCTCCATGCCAG
 GCCTCCAGACCATTAACCTCAGTGCATTGGTACTTCAGGAATCCAGGTGCACCCAATTC
 AAGGCCTGCCGTTGGCTATAGCAAATGCCCCAGGTGATCATGGAGCTCAGCTTGGTCTCC
 ATGGGGCTGGTGGTGTGATGGAATACATGATGACACAGCAGGTGGAGAGGAAGGAGAAAACA
 GCCCAGATGCCCAACCCCAAGCCGGTCGGAGGACCCGGCGGGAAGCATGCACCTGCCCT
 ACTGTAAGACAGTGAAGGAAGGGGCTCGGGGGATCCTGGCAAAAAGAAACAGCATATTT
 GCCACATCCAAGGCTGTGGGAAAGTGTATGGCAAGACCTCTCACCTGCGGGCACACTTGC
 GCTGGCATAACAGGCGAGAGGCCATTTATGTGTACCTGGTCATACTGTGGGAAACGCTTCA
 CACGTTCCGATGAGCTACAGAGGCACAAACGTACACACACAGGTGAGAAGAAATTTGCCT
 GCCCTGAGTGCCTAAGCGCTTCATGAGGAGTGACCACCTGTCAAACATATCAAGACCC
 ACCAGAATAAGAAGGGAGGCCAGGTGTAGCTCTGAGTGTGGGCACTTTGCCCTGGACA
 GTGGGGCAGGTTTCAAGAGCAGTGGCACTGCCACTCCTTCAGCCCTTATTACCACCAATA
 TGGTAGCCATGGAGGCCATCTGTCCAGAGGCATTGCCCGTCTTGCCAACAGTGGCATCA
 ACGTCATGCAGGTGGCAGATCTGCAGTCCATTAATATCAGTGGCAATGGCTTCTGAGATC
 AGGCACCCGGGGCAGAGACATATGGGCCATACCCCTTAACCCCGGGATGCAAGGTAGCA
 TGGGTCCAAGAGACATGGAAGAGAGGCCATGAAGCATTAAAATGCATGGTGTGAGAAG
 AATCAGGAGAGGGATAACAAGAGAGGAGATGGGGTCCCGGCACCCATCTGTATCATCAGTG
 CCTTTTTGAAGGTGGGAAACATTAGTAAAATTCTGTTGGTGCCACGCTTTGATGAGCAT
 TTGTTTGACCCAGTTTCTTCTTACACTTCTTACCCAGCCTACCCTTCTGCATTTCTC
 TTCTCAGCTCTTCCATGATGGATCCCCCCTTCTAAAGCCATCATGCCTTGATAAATA
 TATATGATCATTGAAATACTTTTTAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:	NM_003109
Insert Size:	2900 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<p>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]</p> <p>Transcript Variant: This variant (2) contains an alternate exon in the 5' coding region and uses a downstream start codon, compared to variant 1. Isoform b has a shorter N-terminus, compared to isoform a.</p>