

Product datasheet for **RC234799**

SP1 (NM_001251825) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP1 (NM_001251825) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234799 representing NM_001251825
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCGACCAAGATCACTCCATGGATGAAATGACAGCTGTGGTAAAAATTGAAAAAGGAGTTGGTGGCA
 ATAATGGGGCAATGGTAATGGTGGTGGTGCCTTTTCACAGGCTCGAAGTAGCAGCACAGGCAGTAGCAG
 CAGCACTGGAGGAGGAGGGCAGGGTGCCAAATGGCTGGCAGATCATCTCTTCTCTCTGGGGCTACCCCT
 ACCTCAAAGGAACAGAGTGGCAGCAGTACCAATGGCAGCAATGGCAGTGAGTCTTCCAAGAATCGCACAG
 TCTCTGGTGGGCAGTATGTTGTGGCTGCCGCTCCCAACTACAGAACCAGCAAGTTCTGACAGGACTACC
 TGGAGTGATGCCTAATATTCAGTATCAAGTAATCCACAGTTCAGACCGTTGATGGGCAACAGCTGCAG
 TTTGCTGCCACTGGGGCCAAGTGCAGCAGGATGGTCTGGTCAAATACAGATCATAACAGGTGCAAACC
 AACAGATTATCACAATCGAGGAAGTGGAGGCAACATCATTGCTGCTATGCCAAACCTACTCCAGCAGGC
 TGTCCTCCCTCAAGGCCCTGGCTAATAATGTACTCTCAGGACAGACTCAGTATGTGACCAATGACCAGTG
 GCCTGAATGGGAACATCACCTTGTACCTGTCAACAGCGTTTCTGCAGCTACCTTGACTCCCAGCTCTC
 AGGCAGTCACGATCAGCAGCTCTGGGTCCAGGAGAGTGGCTCACAGCCTGTCACCTCAGGGACTACCAT
 CAGTTCTGCCAGCTTGGTATCATCACAAGCCAGTTCAGCTCCTTTTTACCAATGCCAATAGTACTCA
 ACTACTACTACCACCAGCAACATGGGAATTATGAACTTTACTACCAGTGGATCATCAGGGACCAACTCTC
 AAGGCCAGACACCCAGAGGGTCAAGTGGCTACAGGGTCTGATGCTCTGAACATCCAGCAAAACCAGAC
 ATCTGGAGGCTCATTGCAAGCAGGCCAGCAAAAAGAAGGAGAGCAAAACCAGCAGACACAGCAGCAACAA
 ATCTTATCCAGCCTCAGTAGTTCAAGGGGACAGGCCCTCCAGGCCCTCAAGCAGCACCAATTGTGAG
 GGCAGACCTTTACAACCTCAAGCCATCTCCAGGAAACCTCCAGAACCTCCAGCTTCAGGCTGTTCCAAA
 CTCTGGTCCCATCATCCTCCGGACACCAACAGTGGGGCCCAATGGACAGGTCAGTTGGCAGACTCTACAG
 CTGCAGAACCTCCAAGTTCAGAACCACAAAGCCCAAAACAATCACCTTAGCCCCAATGCAGGGTGTTCCT
 TGGGGCAGACCAGCAGCAGCAACACCACTCTCACACCCATTGCCTCAGCTGCTTCCATTCTGCTGGCAC
 AGTCAGTGTGAATGCTGCTCAACTCTCCTCCATGCCAGGCCTCCAGACCTAACCTCAGTGCATTGGGT
 ACTTCAGGAATCCAGGTGCACCCAATCAAGGCCCTGCCGTTGGCTATAGCAAATGCCCCAGGTGATCATG
 GAGCTCAGCTTGGTCTCCATGGGCTGGTGGTATGGAATACATGATGACACAGCAGGTGGAGAGGAAGG
 AGAAAACAGCCCAGATGCCCAACCCCAAGCCGGTCGGAGGACCCGGCGGGAAGCATGCACCTGCCCTAC
 TGTAAGACAGTGAAGGAAGGGCTCGGGGATCTGGCAAAAAGAAACAGCATATTTGCCACATCCAAG
 GCTGTGGGAAAGTGTATGGCAAGACCTCTACCTGCGGGCACACTTGCCTGGCATACAGGCGAGAGGCC
 ATTTATGTGTACCTGGTCATACTGTGGGAAACGCTTCACACGTTTCGGATGAGCTACAGAGGCACAAACGT
 ACACACACAGGTGAGAAGAAATTTGCCTGCCCTGAGTGTCTTAAGCGCTTCATGAGGAGTGACCCTGT
 CAAAACATATCAAGACCCACCAGAATAAGAAGGGAGGCCAGGTGTAGCTCTGAGTGTGGGCACTTTGCC
 CCTGGACAGTGGGGCAGGTTTCAAGGCCAGTGGCACTGCCACTCCTTCAGCCCTTATTACCACCAATATG
 GTAGCCATGGAGGCCATCTGTCCAGAGGCCATTGCCCGTCTTGCCAACAGTGGCATCAACGTCATGCAGG
 TGGCAGATCTGCAGTCCATTAATATCAGTGGCAATGGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234799 representing NM_001251825
 Red=Cloning site Green=Tags(s)

MSDQDHSMDMTAVVKIEKGVGGNNGGNGGGGAFSQARSSSTGSSSSTGGGGQGANGWQIISSSSGATP
 TSKEQSGSSTNGSNGSESSKNRTVSGGQYVVAAPNLQNQQVL TGLPGVMPNIQYVIPQFQTVDDGQQLQ
 FAATGAQVQDQSGGQIQIIPGANQQIITNRGSGGNI IAAMPNLLQAVPLQGLANNVLSGQTQYVTVNVPV
 ALNGNITLLPVNSVSAATLTPSSQAVTISSSGSQESGSPVTSGTTISSASLVSSQASSSSFFTNANSYS
 TTTTTSNMGINFSTSGSSGTNSQGTPQRVSGLQGS DALNIQQNQTSGGSLQAGQQKEGEQNQQTQQQQ
 ILIQPQLVQGGQALQALQAAPLSGQTFTTQAI SQETLQNLQLQAVPNSGPIIIRTPTVGPNGQVSWQTLQ
 LQNLQVQNPQAQTITLAPMQVSLGQTSSTNTLTPIASAASIPAGTVTVNAAQLSSMPGLQTLNLSALG
 TSGIQVHPIQGLPLAIAANAPGDHGAQLGLHGAGDGIHDDTAGGEEGENSPDAQPQAGRTRREACTCPY
 CKDSEGRSGDGPKKKQHI CHIQCGKVGKTSHLRAHLRWHRTGERPFMCTWSYCGKRFTRSDQLQRHKR
 THTGEKKFACPECPKRFMRSDHLSKHIKTHQNKGGPGVALSVGTLPLDSGAGSESGTATPSALITTM
 VAMEAICPEGIARLANSGINVMQVADLQ SINISNGNF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001251825

ORF Size: 2211 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:

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_001251825.2](#)

RefSeq Size: 7523 bp

RefSeq ORF: 2214 bp

Locus ID: 6667

UniProt ID: [P08047](#)

Cytogenetics: 12q13.13

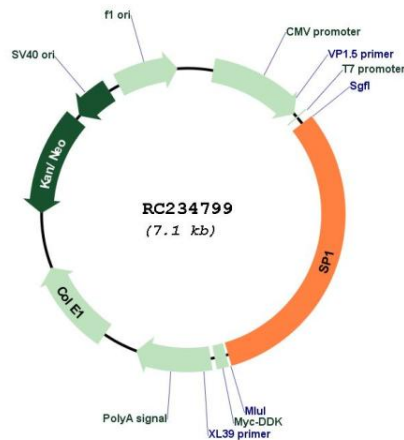
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Stem cell - Pluripotency, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors

Protein Pathways: Huntington's disease, TGF-beta signaling pathway

MW: 76.3 kDa

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 RC234799