

Product datasheet for **RG207602**

SP2 transcription factor (SP2) (NM_003110) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP2 transcription factor (SP2) (NM_003110) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SP2 transcription factor
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG207602 representing NM_003110
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGCCACTGCTGCTGTGAGTCCCAGTACTACCTGCAGCCTGCCGCCTCCACCACCCAGGACTCCC
 AGCCATCTCCCTTAGCCCTGCTTGTGCAACATGTAGCAAAATTGGCCCTCCAGCAGTTGAAGCTGCTGT
 GACACCTCCTGCTCCCCACAGCCACACCCGCGAAACTTGTCCCTATCAAACCTGCCCTCTCCCTCTC
 AGCCCCGCAAGAATAGCTTTGGAATCTTGTCTCCAAAGGAAATATACTTCAGATTGAGGGTCAACAAC
 TGAGCGCCTCCTATCCTGGAGGGCAGCTGGTGTTCGCTATCCAGAATCCCACCATGATCAACAAAGGGAC
 CCGATCAAATGCCAATATCCAGTACCAGGCGGTCCCTCAGATTCAGGCAAGCAATCCCAAACCATCCAA
 GTACAGCCCAATCTACCAACCAGATCCAGATCATCCCTGGCACCAACCAAGCCATCATCACCCCTCAC
 CGTCCAGTACAAGCCTGTCCCATCAAGCCAGCCCCATCCAGAAGTCGAGTACGACCACCACCCCGT
 GCAGAGCGGGCCAATGTGGTGAAGTTGACAGGTGGGGCGGCAATGTGACGCTCACTCTGCCCGTCAAC
 AACCTCGTGAACGCCAGTGACACCGGGGCCCTACTCAGCTCCTCACTGAAAGCCCCCAACCCACTGT
 CTAAGACTAACAAGAAAGCAAGGAAGAAGGCCTTCTGCCTCCAGCCCCCTGTGGCTGTGGCTGAGCA
 GGTGGAGACGGTCTGATCGAGACCACCGCGACAACATCATCCAGGCAGGAAATAACCTGCTATTGTT
 CAGAGCCTGGTGGGGCCAGCCAGCTGTGGTCCAGCAGGTCCAGGTGGTCCCCCAAGGCCGAGCAGC
 AGCAGGTGGTACAGATCCCCAGCAGGCTTCCGGGTGGTGCAGGCGGCATCTGCCACCTCCCACTGT
 ACCCCAGAAGCCCTCCAGAACTTTCAGATCCAGGCAGCTGAGCCGACACCTACTCAGGTCTACATCCGC
 ACGCCTTCCGGTGAAGTGCAGACAGTCCCTTGTCCAGGACAGCCCCCAGCAACAGCTGCAGCCACCTCTA
 ACACCCTGTAGCAGCCCTGCATCCCGTCTCCCATCTGAGTGGGACCAGCAAAAAGCACTCAGCTCAGT
 AATTCTCCGAAAAGAGCGTCCCTGCCAAAGATTGCCCCAGCCGGGAGCATCATCAGCCTGAATGCAGCC
 CAGTTGGCGGACGCTGCCAGGCAATGCAGACCATCAACATCAATGGTGTCCAGGTCCAGGGCGTCCCTG
 TCACCATACCAACACAGGCGGGCAGCAGCAGCTGACAGTGCAGAATGTTTCTGGGAACAACCTGACCAT
 CAGTGGGCTGAGCCCCACCCAGATCCAGCTGCAAAATGGAACAAGCCCTGGCCGGAGAGCCAGCCCGGG
 GAGAAGCGGCGCCGATGGCCTGCACGTGTCCAACTGCAAGGATGGGGAGAAGAGGTCTGGAGAGCAGG
 GCAAGAAGAAGCACGTTTCCACATCCCGACTGTGGCAAGACGTTCCGTAAAGACGCTCTGTGCGTGC
 CCATGTGCGCCTGCACACTGGCAGCGGCCCTTGTCTGCAACTGTTCTTCTGTGGGAAGAGGTTACA
 CGGAGTGACGAGCTCAAACGGCATGCTCGCACCCACACAGGGGACAAACGCTTCGAGTGCGCCCAGTGT
 AGAAGCGCTTCATGAGGAGTGACCACCTACCAAGCATTACAAGACCCACCTGGTACGAAGAACTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207602 representing NM_003110
 Red=Cloning site Green=Tags(s)

MAATAAVSPSDYLQPAASTTQDSQPSPLALLAATCSKIGPPAVEAAVTPAPPQPTPRKLVIKPAPLPL
 SPGKNSFGLSSKGNILQIQGSQLSASYPGQLVFAIQNPTMINKGTRSNANIYQAVPQIQASNSQTIQ
 VQPNLTNQIQIIPGTNQAIITPSPSSHKVPVPIKPAPIQKSSTTTTPVQSGANVVKLTGGGNNVTLTPVN
 NLVNASDTGAPTQLLTPSPPTPLSKTNKKARKKSLPASQPPVAVAEQVETVLIETTADNIIQAGNLLIV
 QSPGGGQPAVVQQVQVPPKAEQQQVVQIPQQALRVVQAASATLPTVPQKPSQNFQIQAAEPTPTQYYIR
 TPSGEVQTVLVQDSPPATAAATSNTTCCSPASRAPHLSGTSKKHSAAILRKRPLPKIAPAGSIIISLNA
 QLAAAAQAMQTINGVQVQGVPTITNTGGQQQLTVQNVSGNNLTISGLSPTQIQLQMEQALAGETQPG
 EKRRRMACTCPNCKDGEKRSGEQKKKHVCHIPDCGKTRKTSLLRAHVRHLHTGERPFVFNWFFCGKRFT
 RSEDLQRHARTHTGDKRFECAQCQKRFMRSDHLTKHYKTHLVTKNL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_003110

ORF Size: 1839 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_003110.4](#), [NP_003101.2](#)

RefSeq Size: 3132 bp

RefSeq ORF: 1842 bp

Locus ID: 6668

UniProt ID: [Q02086](#)

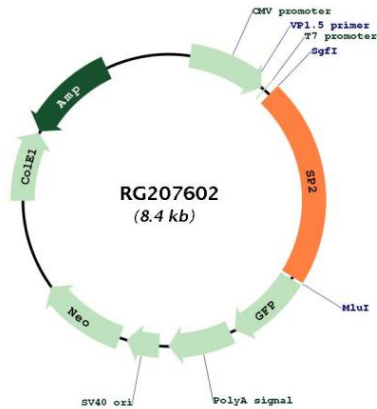
Cytogenetics: 17q21.32

Domains: zf-C2H2

Protein Families: Transcription Factors

Gene Summary: This gene encodes a member of the Sp subfamily of Sp/XKLF transcription factors. Sp family proteins are sequence-specific DNA-binding proteins characterized by an amino-terminal trans-activation domain and three carboxy-terminal zinc finger motifs. This protein contains the least conserved DNA-binding domain within the Sp subfamily of proteins, and its DNA sequence specificity differs from the other Sp proteins. It localizes primarily within subnuclear foci associated with the nuclear matrix, and can activate or in some cases repress expression from different promoters. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207602