

## Product datasheet for **RC230490**

### SP3 (NM\_001172712) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SP3 (NM_001172712) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SP3
Synonyms:	SPR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC230490 representing NM\_001172712  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGACCGCTCCCGAAAAGCCCGTGAACAAGAGGAAATGGCTGCCTTGGACGTGGATAGCGGCGCGCGG  
GTGGCGGCGCGCGGCCACGGCGAGTATCTGCAGCAGCAGCAACAGCACGGAAACGGTGCGGTGGCGGC  
GGCAGCGGCGGCCACGGCTCACCGCTCGCTCTGCTGGCCGTACTCTGCAGCAAGATAGGGCCGCCATCG  
CCGGGCGACGACGAGGAGGAGGCGCGCCGCGCAGCCGGGGCCCCCGCGCCGGAGCGACAGGTGATT  
TGGCTTCTGCACAGTTAGGAGGAGCACAAACCGATGGGAGGTTTTGTCAGCCACACCTACAACATAAA  
AGATGAAGCTGGTAATCTAGTCCAGATTCAGTGTCTACTTCAAGTGGGAGTATGTTCTTCCCCTT  
CAGAATTTGCAGAATCAACAAATATTTCCGTTGCACCAGGATCAGATTCATCAAATGGTACAGTGTCCA  
GTGTTCAATCAAGTGATACCACAGATCCAGTCAGCAGATGGTCAGCAGTTCAAATTTGGTTTCACAGG  
CTTTTCAGATAATGGGGGTATAAATCAAGAAAGCAGTCAAATTCAGATCATTCTGGCTCTAATCAAACC  
TTACTTGCCTCTGGAACACCTTCTGCTAACATCCAGAATCTCATACCACAGACTGGTCAAGTCCAGGTTC  
AGGGAGTTGCAATTGGTGGTTCATCTTTTCTGGTCAAACCCAAGTAGTTGCTAATGTGCCTCTTGGTCT  
GCCAGGAAATATTACGTTTGTACCAATCAATAGTGTGCATCTAGATTCTTTGGGACTCTCGGGCAGTTCT  
CAGACAATGACTGCAGGCATTAATGCCGACGGACATTTGATAAACACAGGACAAGCTATGGATAGTTCAG  
ACAATTCAGAAAGGACTGGTGAGCGGGTTTCTCCTGATATTAATGAAACTAATACTGATACAGATTTATT  
TGTGCCAACATCCTTTCATCACAGTTGCCTGTTACGATAGATAGTACAGGTATATTACAACAAAACACA  
AATAGCTTGACTACATCTAGTGGCAGGTTCAATCTTCAGATCTTCAGGGAAATTATATCCAGTCCGCTG  
TTTCTGAAGAGACACAGGCACAGAATATTCAGGTTTCTACAGCACAGCCTGTTGTACAGCATCAACA  
TCAAGAGTCTCAGCAGCCAACCAAGTCAAGCCAAATTGTGCAAGGTATTACACCACAGACAATCCATGGT  
GTGCAAGCCAGTGGTCAAATATATCACAAACAGGCTTTGCAAAATCTTCAGTTGCAGCTGAATCCTGGAA  
CCTTTTTAATTCAGGCACAGACAGTGACCCCTTCTGGACAGGTAACCTGGCAAACGTTTCAAGTACAAGG  
GGTCCAGAACTTGCAAAATTTGCAAAATACAGAATACTGCTGCCCAACAAATAACTTTGACGCTGTTCAA  
ACCCTCACACTTGGTCAAGTTGCGGCAGGTGGAGCCTTCACTTCAACTCCAGTTAGTCTAAGCACTGGTC  
AGTTGCCAAATCTACAAACAGTTACAGTGAACCTATAGATTCTGCTGGTATACAGCTACATCCAGGAGA  
GAATGCTGACAGTCTGCAGATATTAGGATCAAGGAAGAAGAACCTGATCCTGAAGAGTGGCAGCTCAGT  
GGTGAATCTACCTGAATACCAATGACCTAACACACTTAAGAGTACAGGTGGTAGATGAAGAAGGGGACC  
AACACATCAAGAAGGAAAAAGACTTCGGAGGGTAGCTTGACACCTGTCCCAACTGTAAAGAAGGTGGTGG  
AAGAGGTACCAATCTTGGGAAAAAGAAGCAACACATTTGTCATATACCAGGATGTGGTAAAGTCTATGGG  
AAGACCTCACATCTGAGAGCTCATCTGCGTTGGCATTCTGGAGAACGCCCTTTTGTGTTGTAAGTGGATG  
ACTGTGGTAAAAGATTTACTCGAAGTGATGAATTACAGAGGCACAGAAGAACACATACAGGTGAGAAGAA  
ATTTGTTGTCCAGAATGTTCAAACGCTTTATGAGAAGTGACCACCTTGCCAAACATATTAACACACAC  
CAGAATAAAAAAGGTATTCAGTCTAGCAGTACAGTGTGGCATCTGTGGAAGCTGCGCGAGATGATACTT  
TGATTACTGCAGGAGGAACAACGCTTATCCTTGCAAAATATTCAACAAGGTTCTGTTTCAGGGATAGGAAC  
GTTAATACTTCCGCCACCAGCAATCAAGATATCCTTACCAACACTGAAATACCTTTACAGCTTGTACACA  
GTTTCTGGAAATGAGACAATGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230490 representing NM\_001172712  
 Red=Cloning site Green=Tags(s)

MTAPEKPKQEEMAALDVDSGGGGGGGGHGEYLQQQQQHNGAVAAAAAQPSPALLAATCSKIGPPS  
 PGDEEEEEAAAGAPAAAGATGDLASAQLGGAPNRWEVLSATPTTIKDEAGNLVQIPSAATSSGQYVLP  
 QNLQNNQIFSVAPGSDSSNGTVSSVQYQVIPQIQSADGQVQIGFTGSSDNGGINQESSQIQIIPGSNQT  
 LLASGTPSANIQNLIPQTGQVQVQGVVAIGGSSFPGQTQVVANVPLGLPGNITFVPINSVDLDSLGLSGSS  
 QMTAGINADGHLINTGQAMDSSDINSERTGERVSPDINETNTDIDLFPVPTSSSSQLPVTIDSTGILQQNT  
 NSLTTSSGQVHSSDLQGNVIQSPVSEETAQNIQVSTAQPVVQHLQLQESQQPTSQAQIVQGITPQTIHG  
 VQASGQNISQQALQNLQLNPGTFLIQAQTVTPSGQVTWQTFVQVQVQNLQNLQIQNTAAQQITLTPVQ  
 TLTGQVAAGGAFTSTPVSLSTGQLPNLQTVTVNSIDSAGIQLHPGENADSPADIRIKEEPPDEEWQLS  
 GDSTLNTNDLTHLRVQVVDEEGDQHQEGKRLRRVACTCPNCKEGGGRGTNLGKKKQHICHIPGCGKYYG  
 KTSHLRAHLRWHSGERPFVCNWMYCGKRFTRSDQLQRHRRHTTGEKKFVCPCKRFRMSDHLAKHIKTH  
 QNKKGIHSSSTVLASVEAARDTLITAGGTTLILANIQQGSVSGIGTVNTSATSNDILNTEIPLQLVT  
 VSGNETME

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001172712

ORF Size: 2334 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\\_001172712.1](#), [NP\\_001166183.1](#)

**RefSeq ORF:** 2337 bp

**Locus ID:** 6670

**UniProt ID:** [Q02447](#)

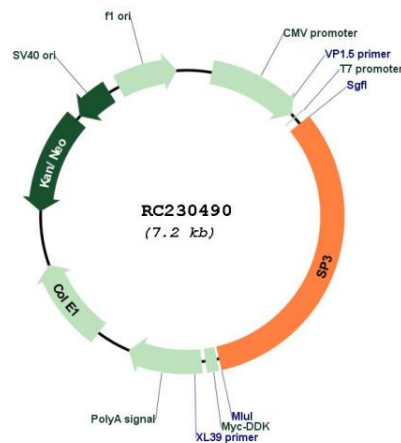
**Cytogenetics:** 2q31.1

**Protein Families:** Druggable Genome, Transcription Factors

**MW:** 82 kDa

**Gene Summary:** This gene belongs to a family of Sp1 related genes that encode transcription factors that regulate transcription by binding to consensus GC- and GT-box regulatory elements in target genes. This protein contains a zinc finger DNA-binding domain and several transactivation domains, and has been reported to function as a bifunctional transcription factor that either stimulates or represses the transcription of numerous genes. Transcript variants encoding different isoforms have been described for this gene, and one has been reported to initiate translation from a non-AUG (AUA) start codon. Additional isoforms, resulting from the use of alternate downstream translation initiation sites, have also been noted. A related pseudogene has been identified on chromosome 13. [provided by RefSeq, Feb 2010]

### Product images:



Circular map for RC230490