

Product datasheet for **SC302024**

SP3 (NM_001017371) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP3 (NM_001017371) Human Untagged Clone
Tag:	Tag Free
Symbol:	SP3
Synonyms:	SPR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001017371, the custom clone sequence may differ by one or more nucleotides

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ATAGGGCCGCCATCGCCGGGCGACGACGAGGAGGAGGCGGCCGCCGACGCCGGGGCCCCCGCCGCCCGG
GAGCGACAGGTGATTTGGCTTCTGCACAGTTAGGAGGAGCACCAACCGATGGGAGGTTTTGTGAGCCAC
ACCTACAACATAAAAGATGAAGCTGGTAATCTAGTCCAGATCCAAGTGCTGCTACTTCAAGTGGGCAG
TATGTTCTTCCCCTTCAGAATTTGCAGAATCAACAAATATTTCCGTTGCCACCAGGATCAGATTCATCAA
ATGGTACAGTGTCCAGTGTTCATATCAAGTGATACCACAGATCCAGTCAGCAGATGGTCAGCAGGTTCA
AATTGGTTTTACAGGCTCTTCAGATAATGGGGGTATAAATCAAGAAAGCAGTCAAATTCAGATCATTCTT
GGCTCTAATCAAACCTTACTTGCCTCTGGAACACCTTCTGCTAACATCCAGAATCTCATACCACAGACTG
GTCAAGTCCAGGTTGAGGAGTTGCAATTGGTGGTTCATCTTTTCTGGTCAAACCCAAGTAGTTGCTAA
TGTGCCTCTTGGTCTGCCAGGAAATATTACGTTTGTACCAATCAATAGTGTGATCTAGATTCTTTGGGA
CTCTCGGGCAGTCTCAGACAATGACTGCAGGCATTAATGCCGACGGACATTTGATAAACACAGGACAAG
CTATGGATAGTTCAGACAATTCAGAAAGGACTGGTGGAGGGGTTTCTCCTGATATTAATGAAACTAATAC
TGATACAGATTTATTTGTGCCAATCCTCTTCATCACAGTTGCCTGTTACGATAGATAGTACAGGTATA
TTACAACAAAACACAAATAGCTTGACTACATCTAGTGGGCGAGTTCATTCTTCAGATCTTCAGGAAAT
ATATCCAGTGCCTGTTTCTGAAGAGACACAGGCACAGAATATTCAGGTTTCTACAGCACAGCCTGTTGT
ACAGCATCTACAACCTTCAAGAGTCTCAGCAGCCAAACAGTCAAGCCCAAATTTGTGCAAGGTATTACACCA
CAGACAATCCATGGTGTGCAAGCCAGTGGTCAAAATATATCACAACAGGCTTTGCAAAATCTTCAGTTGC
AGCTGAATCCTGGAACCTTTTTAATTCAGGCACAGACAGTGACCCCTTCTGGACAGGTAACCTGGCAAA
GTTTCAAGTACAAGGGGTCAGAACTTGCAAGTTTGCAGAAATACAGAATACTGCTGCCCAACAAATAACT
TTGACGCCTGTTCAAACCTCACACTTGGTCAAGTTGCGGCAGGTGGAGCCTTCACTTCACTCCAGTTA
GTCTAAGCACTGGTCAGTTGCCAAATCTACAAACAGTTACAGTGAACCTATAGATTCTGCTGGTATACA
GCTACATCCAGGAGAGAATGCTGACAGTCTGCAGATATTAGGATCAAGGAAGAAGAACCTGATCCTGAA
GAGTGGCAGTCACTGGTATTCTACCTTGAATACCAATGACCTAACACACTTAAGAGTACAGGTGGTAG
ATGAAGAAGGGGACCAACAACATCAAGAAGGAAAAAGACTTCGGAGGGTAGCTTGACCTGTCCCAACTG
TAAAGAAGGTGGTGAAGAGGTACCAATCTTGGGAAAAAGCAACACATTTGTCATATACCAGGATGT
GGTAAAGTCTATGGAAGACCTCACATCTGAGAGCTCATCTGCGTTGGCATTCTGGAGAAGCCCTTTTG
TTTGTAACTGGATGTACTGTGGTAAAAGATTTACTCGAAGTGATGAATTACAGAGGCACAGAAGAACACA
TACAGGTGAGAAGAAATTTGTTTGTCCAGAATGTTCAAAACGCTTTATGAGAAGTACCACCTTGCCAAA
CATATTAACACACCAGAATAAAAAAGGTATTACTCTAGCAGTACAGTCTGGCATCTGTGGAAGCTG
CGCGAGATGATACCTTTGATTACTGCAGGAGGAACAACGCTTATCCTTGCAAAATTTCAACAAGGTTCTGT
TTCAGGGATAGGAACTGTTAATACTTCCGCCACCAGCAATCAAGATATCCTTACCAACACTGAAATACCT
TTACAGCTTGTACAGTTTCTGGAATGAGACAATGGAGTAA
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001017371

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:	NM_001017371.4 , NP_001017371.3
RefSeq Size:	6008 bp
RefSeq ORF:	2142 bp
Locus ID:	6670
UniProt ID:	Q02447
Cytogenetics:	2q31.1
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) is missing exons 1 and 2 found in transcript variant 1, and has a different 5' end. It initiates translation from a non-AUG (AUA) start site, and encodes an isoform (2) with a shorter N-terminus compared to isoform 1. Alternative translation initiation from downstream, in-frame AUG start codons produces shorter isoforms. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>