

## Product datasheet for **SC329128**

### SP3 (NM\_001172712) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SP3 (NM_001172712) Human Untagged Clone
Tag:	Tag Free
Symbol:	SP3
Synonyms:	SPR2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001172712, the custom clone sequence may differ by one or more nucleotides

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ATGACCGCTCCCAGAAAAGCCCGTGAAACAAGAGGAAATGGCTGCCTTGGACGTGGATAGC
GGCGGCGGCGGTGGCGGCGGCGGCCACGGCGAGTATCTGCAGCAGCAGCAACAGCAC
GGAAACGGTGGGTGGCGGCGGCGGCCAGCCGTCACCGCTCGCTCTGCTGGCC
GCTACCTGCAGCAAGATAGGGCCGCCATCGCGGGCGACGACGAGGAGGAGGCGGCCGCC
GCAGCGGGGCCCGCCCGCCCGGAGCGACAGGTGATTTGGCTTCTGCACAGTTAGGA
GGAGCACCAAACCGATGGGAGGTTTTGTAGCCACACCTACAACATAAAAAGATGAAGCT
GGTAATCTAGTCCAGATTCCAAGTGCTGCTACTTCAAGTGGGCGATATGTTCTTCCCCTT
CAGAATTTGCAGAATCAACAAATATTTTCCGTTGCACCAGGATCAGATTCATCAAATGGT
ACAGTGTCCAGTGTCAATATCAAGTGATACCACAGATCCAGTCAGCAGATGGTCAGCAG
GTTCAAATGGTTTTACAGGCTCTTCAGATAATGGGGGTATAAATCAAGAAAGCAGTCAA
ATTCAGATCATTCTGGCTCTAATCAAACCTTACTTGCCTCTGGAACACCTTCTGCTAAC
ATCCAGAATCTCATACCACAGACTGGTCAAGTCCAGGTTCAAGGAGTTGCAATTGGTGGT
TCATCTTTTCTGGTCAAACCAAGTAGTTGCTAATGTGCCTCTTGGTCTGCCAGGAAAT
ATTACGTTTGTACCAATCAATAGTGTGATCTAGATTCTTTGGGACTCTCGGGCAGTTCT
CAGACAATGACTGCAGGCATTAATGCCGACGGACATTTGATAAACACAGGACAAGCTATG
GATAGTTCAGACAATTCAGAAAGGACTGGTGAGCGGGTTTCTCCTGATATTAATGAAACT
AATACTGATACAGATTTATTTGTGCCAACATCCTCTTCATCACAGTTGCCTGTTACGATA
GATAGTACAGGTATATTACAACAAAACAAAATAGCTTGACTACATCTAGTGGGCAGGTT
CATTCTTCAGATCTTCAGGGAAATATATCCAGTCGCCTGTTTCTGAAGAGACACAGGCA
CAGAATATTCAGTCTTACAGCACAGCCTGTTGTACAGCATCTACAACCTCAAGAGTCT
CAGCAGCAACCCAGTCAAGCCAAATTTGCAAGGTATTACACCACAGACAATCCATGGT
GTGCAAGCCAGTGGTCAAATATATCACAAACAGGCTTTGCAAAAATCTTCAGTTGCAGCTG
AATCCTGGAACCTTTTTAATTCAGGCACAGACAGTGACCCCTTCTGGACAGGTAACCTGG
CAAACGTTTCAAGTACAAGGGTCCAGAACTTGCAGAATTTGCAAAATACAGAATACTGCT
GCCCAACAAATAACTTTGACGCCTGTTCAAACCTCACACTTGGTCAAGTTGCGGCAGGT
GGAGCCTTCACTTCAACTCCAGTTAGTCTAAGCACTGGTCAGTTGCCAAATCTACAAACA
GTTACAGTGAACCTATAGATTCTGCTGGTATACAGCTACATCCAGGAGAGAATGCTGAC
AGTCTGCAGATATTAGGATCAAGGAAGAAGAACCTGATCCTGAAGAGTGGCAGCTCAGT
GGTGATTCTACCTTGAATACCAATGACCTAACACACTTAAGAGTACAGGTGGTAGATGAA
GAAGGGGACCAACAACATCAAGAAGGAAAAGACTTCGGAGGGTAGCTTGCACCTGTCCC
AACTGTAAGAAGGTGGTGAAGAGGTACCAATCTTGGGAAAAAGAACACACATTTGT
CATATACCAGGATGTGGTAAAGTCTATGGGAAGACCTCACATCTGAGAGCTCATCTGCGT
TGGCATTCTGGAGAACGCCCTTTTGTGTAAGTGGATGACTGTGGTAAAAGATTTACT
CGAAGTGATGAATTACAGAGGCACAGAAGAACACATACAGGTGAGAAGAAATTTGTTGT
CCAGAATGTTCAAACGCTTTATGAGAAGTGACCACCTTGCCAAACATATTAACACAC
CAGAATAAAAAAGGTATTCACCTAGCAGTACAGTGTGGCATCTGTGGAAGCTGCGCGA
GATGATACTTTGATTACTGCAGGAGGAACAACGCTTATCCTTGCAAATATTCAACAAGGT
TCTGTTTCAGGGATAGGAAGTGAATACTTCCGCCACCAGCAATCAAGATATCCTTACC
AACACTGAAATACCTTTACAGCTTGTACAGTTTCTGGAATGAGACAATGGAGTAA

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**Restriction Sites:** Please inquire

**ACCN:** NM\_001172712

**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).

<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001172712.1</a></u> , <u><a href="#">NP_001166183.1</a></u>
<b>RefSeq Size:</b>	6350 bp
<b>RefSeq ORF:</b>	2337 bp
<b>Locus ID:</b>	6670
<b>UniProt ID:</b>	<u><a href="#">Q02447</a></u>
<b>Cytogenetics:</b>	2q31.1
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	<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 (3) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1, resulting in an isoform (3) that is shorter than isoform 1. Alternative translation initiation from downstream, in-frame start codons produces shorter isoforms.</p>