

## Product datasheet for **RG220658**

### SP3 (NM\_001017371) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SP3 (NM_001017371) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SP3
Synonyms:	SPR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG220658 representing NM\_001017371  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATAGGGCCGCCATCGCCGGGCGACGACGAGGAGGAGCGGCCGCCGACGCCGGGGCCCCGCCGCCGCCG  
 GAGCGACAGGTGATTTGGCTTCTGCACAGTTAGGAGGAGCACAAACCGATGGGAGGTTTTGTCAGCCAC  
 ACCTACAACATAAAAAGATGAAGCTGGTAATCTAGTCCAGATTCCAAGTCTGCTACTTCAAGTGGGCAG  
 TATGTTCTTCCCCTTCAGAATTTGCAGAATCAACAATAATTTCCGTTGCACCAGGATCAGATTCATCAA  
 ATGGTACAGTGTCCAGTGTCAATATCAAGTGATACCACAGATCCAGTCAGCAGATGGTCAGCAGTTCA  
 AATTGGTTTCACAGGCTTTCAGATAATGGGGTATAAATCAAGAAAGCAGTCAAATTCAGATCATTCT  
 GGCTCTAATCAAACCTTACTTGCCTCTGGAACACCTTCTGCTAACATCCAGAATTCATACCACAGACTG  
 GTCAGTCCAGGTTCCAGGAGTTGCAATTGGTGGTTCATCTTTCTGGTCAAACCAAGTAGTTGCTAA  
 TGTGCCTCTTGGTCTGCCAGGAAATATTACGTTTGTACCAATCAATAGTGTGATCTAGATTCTTTGGGA  
 CTCTCGGGCAGTTCTCAGACAATGACTGCAGGCATTAATGCCGACGGACATTTGATAAACACAGGACAAG  
 CTATGGATAGTTCAGACAATTCAGAAAGGACTGGTGAGCGGGTTTCTCCTGATATTAATGAACTAATAC  
 TGATACAGATTTATTTGTGCCAACATCCTCTTCATCACAGTTGCCTGTTACGATAGATAGTACAGGTATA  
 TTACAACAAAACAAAATAGCTTGACTACATCTAGTGGGCAGGTTCAATCTTCAGATCTTCAGGGAAATT  
 ATATCCAGTCCGCTGTTTCTGAAGAGACACAGGCACAGAATATTCAGGTTTCTACAGCACAGCCTGTTGT  
 ACAGCATCTACAACCTCAAGAGTCTCAGCAGCCAAACAGTCAAGCCAAATTTGCAAGGTATTACACCA  
 CAGACAATCCATGGTGTGCAAGCCAGTGGTCAAAATATATCACAACAGGCTTTGCAAAATCTTCAGTTGC  
 AGCTGAACTCCTGGAACCTTTTTAATTCAGGCACAGCAGTGAACCCCTTCTGGACAGTAACTTGGCAAAC  
 GTTTCAAGTACAAGGGTCCAGAACTTGCAAAATTTGCAAAATACAGAATACTGCTGCCCAACAAAATACT  
 TTGACGCCTGTTCAAACCTCACACTTGGTCAAGTTGCGGCAGGTGGAGCCTTCACTTCAACTCCAGTTA  
 GTCTAAGCACTGGTCAGTTGCCAAATCTACAAACAGTTACAGTGAACCTATAGATTCTGCTGGTATACA  
 GCTACATCCAGGAGAGAATGCTGACAGTCTGCAGATATTAGGATCAAGGAAGAAGAACCTGATCCTGAA  
 GAGTGGCAGTCAAGTGGTATTCTACCTTGAATACCAATGACCTAACACACTTAAGAGTACAGGTGGTAG  
 ATGAAGAAGGGGACCAACAACATCAAGAAGGAAAAAGACTTCGGAGGGTAGCTTGCACCTGTCCAACTG  
 TAAAGAAGGTGGTGAAGAGTACCAATCTTGGGAAAAAGAAGCAACACATTTGTCATATACCAGGATGT  
 GGTAAAGTCTATGGGAAGACCTCACATCTGAGAGCTCATCTGCGTTGGCATTCTGGAGAAGCCCTTTTG  
 TTTGTAAGTGGATGTACTGTGGTAAAAGATTTACTCGAAGTGATGAATTACAGAGGCACAGAAGAACACA  
 TACAGGTGAGAAGAAATTTGTTTGTCCAGAATGTTCAAAACGCTTTATGAGAAGTGACCCTTGCCAAA  
 CATATTAACACACACCAGAATAAAAAAGGTATTCACTCTAGCAGTACAGTGTGGCATCTGTGGAAGCTG  
 CGCGAGATGATACTTTGATTACTGCAGGAGGAACAACGCTTATCCTTGCAAAATTTCAACAAGGTTCTGT  
 TTCAGGGATAGGAACTGTTAATACTTCCGCCACCAGCAATCAAGATATCCTTACCAACACTGAAATACCT  
 TTACAGCTTGTACAGTTTCTGGAAATGAGACAATGGAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:** >RG220658 representing NM\_001017371  
 Red=Cloning site Green=Tags(s)

```

IGPPSPGDDEEEAAAAAGAPAAAGATGDLASAQLGGAPNRWEVL SATPTTIKDEAGNLVQIPSAATSSGQ
YVLPLQNLQNQQIFSVAPGSDSSNGTVSSVQYQVIPQIQSADGQQVQIGFTGSSDNGGINQESSQIQIIP
GSNQTLASGTPSANIQNLIPQTGQVQVQGVVAIGGSSFPGQTQVVANVPLGLPGNITFPVINSVDLDSL
LSGSSQMTAGINADGHLINTGQAMDSSDNSERTGERVSPDINETNTDIDLFPVPTSSSSQLPVTIDSTGI
LQQNTNSLTSSGQVHSSDLQGNVIQSPVSEETAQNIQVSTAQPVVQHLQLQESQQPTSQAQIVQGITP
QTIHGVQASGQNISQQALQNLQLNPGTFLIQAQTVTPSGQVTVQTFQVQGVQNLQNLQIQNTAAQQIT
LTPVQTLTLGQVAAGGAFTSTPVSLSGQPLNLQTVTVNSIDSAGIQLHPGENADSPADIRIKEEEDPE
EWQLSGDSTLNTNDLTHLRVQVVEEGDQHQEGKRLRRVACTCPNCKEGGGRGTNLGKKKQHICHIPGC
GKYYGKTSHLRAHLRWHSGERPFVCNWMYCGKRFTRSDQLQRHRRHTTGEKKFVCPCKRFRMSDHLAK
HIKTHQNKGIHSSSTVLASVEAARDTLITAGGTTLILANIQQGSVSGIGTVNTSATSNDILNTEIP
LQLVTVSGNETME
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001017371

**ORF Size:** 2139 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\\_001017371.5](#)

**RefSeq Size:** 3980 bp

**RefSeq ORF:** 2142 bp

**Locus ID:** 6670

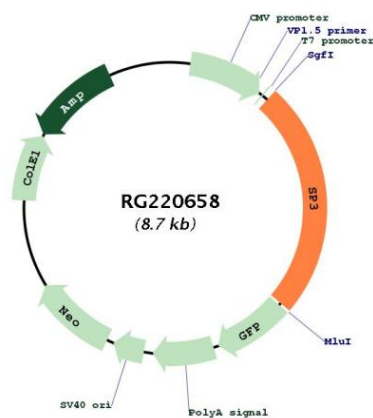
**UniProt ID:** [Q02447](#)

**Cytogenetics:** 2q31.1

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

**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 RG220658