

Product datasheet for **RG231848**

SSBP1 (NM_001256513) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SSBP1 (NM_001256513) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SSBP1
Synonyms: Mt-SSB; mtSSB; SOSS-B1; SSBP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231848 representing NM_001256513
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCGAAGACCTGTATTACAGGTACTTCGTCAGTTTGTAAAGACATGAGTCCGAAACAACCTACCACTT
TGGTCTTGAAAGATCCCTGAATCGTGTGCACTTACTTGGGCGAGTGGTCAGGACCCTGTCTTGAGACA
GGTGAAGGAAAAATCCAGTCACAATATTTCTCTAGCAACTAATGAGATGTGGCGATCAGGGGATAGT
GAAGTTTACCAACTGGGTGATGTCAGTCAAAGACAACATGGCACAGAATATCAGTATTCGGCCAGGCC
TCAGAGACGTGGCATATCAATATGTGAAAAGGGTCTCGAATTTATTTGGAAGGAAAAATAGACTATGG
TGAATACATGGATAAAAATAATGTGAGGCGACAAGCAACAACAATCATAGCTGATAATATTATTTCTG
AGTGACCAGACGAAAGAGAAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231848 representing NM_001256513
Red=Cloning site Green=Tags(s)

MFRRPVLQVLRQFVRHESETTSLVLERSLNRVHLLGRVGDVLRQVEGKNPVTIFSLATNEMWRSRGS
EYVQLGDVVSQKTTWHRISVFRPGLRDVAYQYVKKGSRIYLEGKIDYGEYMDKNNVRRQATTTIADNIIIFL
SDQTKEKE

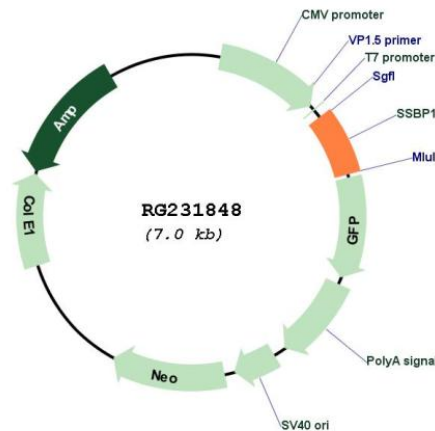
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001256513

ORF Size: 444 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.

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| 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: | <u>NM_001256513.1</u> , <u>NP_001243442.1</u> |
| RefSeq Size: | 807 bp |
| RefSeq ORF: | 447 bp |
| Locus ID: | 6742 |
| UniProt ID: | <u>Q04837</u> |
| Cytogenetics: | 7q34 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | DNA replication, Homologous recombination, Mismatch repair |
| Gene Summary: | SSBP1 is a housekeeping gene involved in mitochondrial biogenesis (Tiranti et al., 1995 [PubMed 7789991]). It is also a subunit of a single-stranded DNA (ssDNA)-binding complex involved in the maintenance of genome stability (Huang et al., 2009) [PubMed 19683501]. [supplied by OMIM, Feb 2010] |