

Product datasheet for **RG212771**

SIRPB1 (NM_001083910) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SIRPB1 (NM_001083910) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SIRPB1
Synonyms: CD172b; SIRP-BETA-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG212771 representing NM_001083910
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCGTGCCAGCCTCCTGGCCCCACCTTCTAGTCCTTTCCTGCTGATGACGCTACTGCTGGGGAGAC
 TCACAGGAGTGGCAGGTGAGGACGAGCTACAGGTGATTACGCCTGAAAAGTCCGTATCAGTTGCAGCTGG
 AGAGTCGGCCACTCTGCGCTGTGCTATGACGTCCCTGATCCCTGTGGGGCCCATCATGTGGTTTAGAGGA
 GCTGGAGCAGCCGGGAATTAATCTACAATCAGAAAGAAGGCCACTTCCCACGGGTAACAACTGTTTCAG
 AACTCACAAAGAGAAACAACCTGGACTTTCCATCAGCATCAGTAACATCACCCAGCAGACGCCGGCAC
 CTACTACTGTGTGAAGTCCGGAAAGGGAGCCCTGACGACGTGGAGTTTAAAGTCTGGAGCAGGCACTGAG
 CTGTCTGTGCGCGAAGCAGCGCTGGCTCCTACTGCTCCACTCCTCGTAGCTCTCCTCTGGGCCCAAGC
 TGCTACTGGTGGTTGGTGTCTCTGCCATCTACATCTGCTGGAAACAGAAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG212771 representing NM_001083910
 Red=Cloning site Green=Tags(s)

MPVPASWPHLPSFLLMTLLLGRLTGVADEDELQVIQPEKSVSVAAGESATLRCAMTSLIPVGPIMWFRG
 AGAGRELIYNQKEGHFPRVTTVSELTKRNNLDFSISISNITPADAGTYCVKFRKGPDDVEFKSGAGTE
 LSVREAALAPTAPLLVALLLGPKLLLVGVSAIYICWKQKA

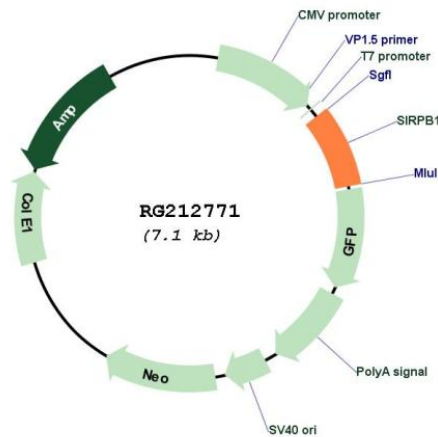
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001083910

ORF Size: 543 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_001083910.3</u> |
| RefSeq Size: | 1818 bp |
| RefSeq ORF: | 546 bp |
| Locus ID: | 10326 |
| UniProt ID: | <u>O00241</u> |
| Cytogenetics: | 20p13 |
| Protein Families: | Druggable Genome, Transmembrane |
| Gene Summary: | The protein encoded by this gene is a member of the signal-regulatory-protein (SIRP) family, and also belongs to the immunoglobulin superfamily. SIRP family members are receptor-type transmembrane glycoproteins known to be involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. This protein was found to interact with TYROBP/DAP12, a protein bearing immunoreceptor tyrosine-based activation motifs. This protein was also reported to participate in the recruitment of tyrosine kinase SYK. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2009] |