

## Product datasheet for **RG210509**

### **SAPS1 (PPP6R1) (NM\_014931) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| Product Type:             | Expression Plasmids                               |
| Product Name:             | SAPS1 (PPP6R1) (NM_014931) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                          |
| Symbol:                   | SAPS1                                             |
| Synonyms:                 | KIAA1115; PP6R1; SAP190; SAPS1                    |
| Mammalian Cell Selection: | Neomycin                                          |
| Vector:                   | pCMV6-AC-GFP (PS100010)                           |
| E. coli Selection:        | Ampicillin (100 ug/mL)                            |



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RG210509 representing NM\_014931  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCCGCCGCCCCCTCGCAGGGCGCCATGTTTTGGAAGTTTGACCTGCACACAAGCTCGCACCTGG  
 ACACGCTGCTGGAGCGGGAGGACCTGAGCCTGCCCGAGCTGCTGGACGAGGAAGACGTGCTGCAGGAGTG  
 CAAGGTCGTCAACCGCAAGCTGCTGGACTTCTGCTGCAGCCACCCACCTGCAAGCAATGGTGGCTGG  
 GTCACCCAGGAGCGCCAGATAGCGGTGAGGAGCGGCTGCGCTACAAGTACCCAGTGTGGCCTGCGAGA  
 TTCTGACCTCAGATGTGCCCCAGATCAATGATGCCCTGGGTGCCGATGAGTCCCTTCTGAACCGGCTCTA  
 CGGCTTCTGCAGAGCACCGGCAGCCTCAACCCACTGCTGGCCAGCTTCTTCAGCAAGGTCATGGGCATC  
 CTCATCAACCGCAAGACAGACCAGCTCGTGTCTTTCTTCGGAAGAAGGATGACTTCGTGGACCTGCTGC  
 TGCAGCACATTGGCACCTCGGCCATCATGGACCTCCTGCTGCGCCTGCTCACCTGTGTGGAGCGGCCTCA  
 GCTGAGGCAGGATGTTGTCAATTGGCTCAACGAGGAGAAGATCGTCCAGCGGCTGATTGAGCAGATCCAC  
 CCGTCGAAGGATGAGAATCAACATTCCAACGCATCCAGTCCCTGTGTGACATCATCCGCTGAGCCGGG  
 AGCAGATGATCCAAGTCCAGGACAGCCAGAGCCTGACCAACTGCTGGCCACCCTGGAGAAGCAGGAGAC  
 GATTGAGCAGCTCTTAAGCAACATGTTGAGGGGAGCAGAGCCAGTCTGTATCGTCAGTGGGATCCAG  
 GTGCTGCTGACCTGCTGGAGCCAGGAGGCGGAGGTCCGAGTCCGTGACCGTGAACAGCTTCTTCAGCA  
 GTGTGGATGGGCAGCTGGAGCTCCTGGCCAGGGGGCCCTGGAAGCACTGTGTCCAGTGTGGGCGCCTT  
 GCACGCCCTACGCGCGGGCTCAGCTGCTTCCACAGCTCCTGCTGGAGCCTCCCAAGCTGGAGCCGCTA  
 CAGATGACATGGGCATGCTGGCTCCGCTCTGGGCAACACGCGGCTGCACGTGGTCAAGCTCCTGGCCA  
 GTGCCCTGAGCGCCAATGATGCAGCCCTGACGCACGAGCTCCTGGCACTGGACGTGCCCAACACCATGCT  
 GGACCTCTTCTTCCATTATGTCTTCAACAACCTTCTTGATGCCCAAGTAGAGGGATGCGTGAGCACCATG  
 CTGAGCTTGGGGCCACCTCCTGACAGCAGCCCTGAGACGCCATCCAAAACCTGTTGTGAACATCTGC  
 TGCAGCAGTGCCGCTGGTGGAGCGGATCCTGACGTCTGGGAGGAGAACGACCGTGTACAGTGTGCGGG  
 AGGCCCTCGGAAGGCTACATGGGTACCTGACAAGAGTGGCCGGTGCCTGGTGCAGAACCGGAGAAG  
 GGGCCCAATGCAGAGCAGCTGCGGCAGTGCTGAAGGAGTGGCCAGCGAGCAGGAGCAGTGGGAAG  
 CCTTCGTATCGGGGCCCTGGCGGAGACCAACAAGAAGACATGGTGGACCTGGTGAACACCCACCCT  
 AACTCCTCCAGTGACGATGAGGACGACCGGCTCAAGGAGTTCAACTTCCCTGAGGAGGCTGTGCTGCAG  
 CAGGCCTTCATGACTTCCAGATGCAGCGCATGACCTCTGCCTTCAATTGACCACTTCGGCTTCAATGATG  
 AGGAGTTTGGGGAGCAGGAGGAGAGTGTGAACGCACCTTTTGACAAGACAGCCAACATCACCTTCTCCCT  
 CAATGCTGACGATGAGAACCCCAACGCCAACCTACTTGAGATATGCTACAAGGACCGCATCCAGCAGTTT  
 GATGATGATGAGGAAGAGGAGGACGAGGAAGAGGCCAGGGCTCAGGGGAGTCTGATGGAGAAGATGGCG  
 CCTGGCAGGGCAGCCAGCTGGCCAGGGGGGCCCTCTGGGCCAGCCACCTGGTGTCCGAGTGGAGGCAG  
 CACAGACAGTGAGGACGAAGAAGAGGAGGACGAGGAGGAGGAGGAAGACGAGGAGGGCATTGGCTGTGCA  
 GCCCGTGGAGGGGCCACCCCTCTGTCTACCCAGCCCTGGCCCTCAGCCTCCAGGCCCAGCTGGACAG  
 CCACCTTTGACCCAGTGCCTACAGATGCCCCGACCAGCCCCGAGTCTCCGGGGAGGAAGAGCTGCACAC  
 TGGGCCCTCCAGCCCCACAGGGGCCCTCAGTGTGCCCCAGGGCCTCCCACTCAGAGCCTGGCCAGGCCCT  
 CCTGCCCCGTGACGCCCTGACGCTCAGGTCTCAGGACCCACACCCCCCTCAGCACCTCAGGAAGCCACAG  
 AAGGCAGCAAGTCACGGAGCCCTCAGCCCTTGCCAGGCCTTGTTAGCATCGGGGACCTTCAGGCCAC  
 CTTCCACGGGATCCGTTCTGCCCCAGCTCCTCGGACAGTGCAACCAGAGACCCCTCTACCTCTGTCCCA  
 GCCTCCGGGGCCACAGCCCCCAGACCACAGAAGGGGAGAAGAGCCAGAGCCCTTGGGGCTTCCCC  
 AAAGCCAGAGTGCCAGGCCCTCACGCCTCCTCCGATACCAATGGCTCTGCCCCGAAGGGCCTGCATC  
 CCCAGGCTCCAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210509 representing NM\_014931  
Red=Cloning site Green=Tags(s)

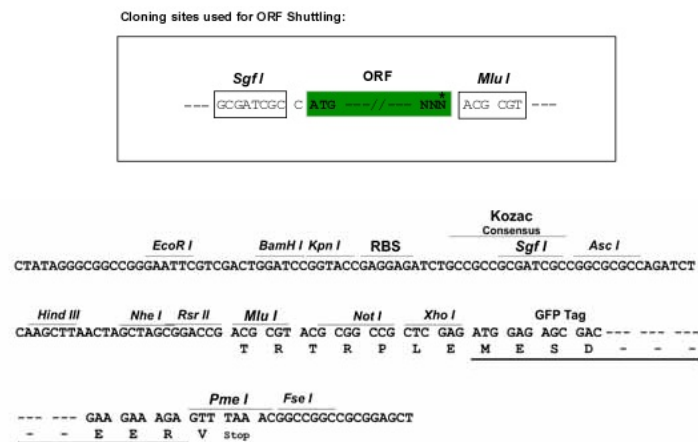
MSRRPPSQGAMFWKFDLHTSSHLDTLLEREDLSLPELLDEEDVLQECKVVNRKLLDPLLQPPHLQAMVAW  
VTQEPDSDGEERLRYKPSVACEILTSDVPQINDALGADESLLNRLYGFLQSTGSLNPLLASFFSKVMGI  
LINRKTDQLVSFLRKDDFVDLLQHIQTSIMDLLLLRLTCTVERPQLRQDVVNWLNEEKIVQRLIEQIH  
PSKDENVHSNASQSLCDIIRLSREQMIQVQDSPEPDQLLATLEKQETIEQLLSNMFEGEQSVIVSGIQ  
VLLTLLLEPRRPRSESVTVNSFFSSVDGQLELLAQGALESTVSSVGALHALRPRLSCFHQLLLEPPKLEPL  
QMTWGMLAPPLGNTRLHVVKLLASALSANDAALTHELLALDVPNTMLDLFFHYVFNNFLHAQVEGCVSTM  
LSLGPPPDSSPETPIQNPVVKHLLQQCRLVERILTSWEENDRVQCAGGPRKGYMGHLTRVAGALVQNTK  
GPNAEQLRQLLKELPSEQEQWEAFVSGPLAETNKNMVDLVNTHHLHSSDDEDDLKEFNFPPEAVLQ  
QAFMDFQMQRMTSAFIDHFGNDEEFGEQESVNAPFDKTANITFSLNADDENPNANLLEICYKDRIQQF  
DDDEEEDEEEAQSGESDGEDGAWQSQLARGARLGQPPGVRSGGSTDEDEEEDEEEDEEGIGCA  
ARGGATPLSYSPGPQPPGPSWTATFDVPVTDAPTSRVS GEEELHTGPPAPQGPLSVPQGLPTQSLASP  
PARDALQLRSQDPTPPSAPQEATEGSKVTEPSAPCQALVSIGDLQATFHGIRSAPSSSDSATRDPSTSV  
ASGAHQPPQTTEGEKSPEPLGLPQSQSAQALTPPPIPNESAPEGPASPGSQ

TRTRPLE - GFP Tag - V

Restriction Sites:

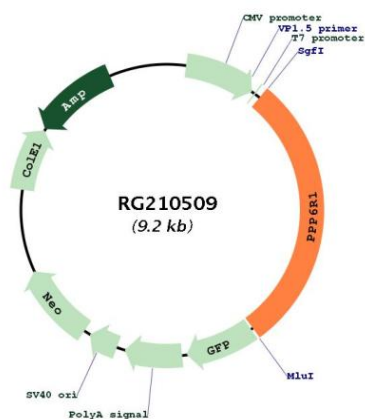
SgfI-MluI

Cloning Scheme:



|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACCN:</b>                  | NM_014931                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ORF Size:</b>              | 2673 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>                                                                      |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.                                                                                                                                                                                                                                                                                                                                                                                    |
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <a href="#">NM_014931.2</a> , <a href="#">NP_055746.2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>RefSeq Size:</b>           | 3540 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 2646 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 22870                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <a href="#">Q9UPN7</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 19q13.42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Domains:</b>               | SAPS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Summary:</b>          | Protein phosphatase regulatory subunits, such as SAPS1, modulate the activity of protein phosphatase catalytic subunits by restricting substrate specificity, recruiting substrates, and determining the intracellular localization of the holoenzyme. SAPS1 is a regulatory subunit for the protein phosphatase-6 catalytic subunit (PPP6C; MIM 612725) (Stefansson and Brautigan, 2006 [PubMed 16769727]).[supplied by OMIM, Nov 2010]                                                                                |

## Product images:



Circular map for RG210509