

## Product datasheet for **RG228606**

### **SAPS3 (PPP6R3) (NM\_001164160) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SAPS3 (PPP6R3) (NM_001164160) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPP6R3
Synonyms:	C11orf23; PP6R3; SAP190; SAPL; SAPLa; SAPS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG228606 representing NM\_001164160  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTTTGGAAATTTGATCTTCACTCATCATCCCACATAGACACACTTCTAGAAAGAGAAGATGTAACAC  
 TGAAGGAGTTAATGGATGAGGAAGATGTTTTACAGGAATGTAAAGCTCAGAACCCGAAACTTATAGAGTT  
 TCTGTTAAAAGCAGAATGTCTCGAAGATTTAGTCTCATTATTAGAAGAACCCTCAAGACATGGAT  
 GAAAAGATCAGATACAAGTATCCAAATATATCTTGTGAGTTGCTCACTTCTGATGTCTCCAGATGAATG  
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 TGAGGAGAAAATTATCCAGAGGCTTGTGGAATAGTTCATCCATCGCAAGAAGAAGATCGACATTCAAAT  
 GCATCACAATCACTTTGTGAAATTTGTCGCTGAGCAGAGACCAGATGTTACAAATTCAGAACAGTACAG  
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 ACTGATTCCTTGCAAGTCTTTTGAACACAGAAAATGCCACAATTACCGATCAAGACTCCACTGGTGAT  
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 GAAGTCAGGGAACGATGGGAGACGTTCTGCACAAGCTCCTTAGGAGAACTAACAAAGAGGAACACGGTAG  
 ATCTAGTTACAACCTGCCATATTCATTCATCCAGTGATGATGAAATTGACTTTAAAGAAACGGGTTTCTC  
 ACAGGATCTTCTTTGCAGCAAGCCTTTTCTGATTATCAGATGCAACAAATGACGTCCAATTTTATTGAC  
 CAGTTTGGCTTCAACGATGAGAAGTTTGCAGATCAAGATGACATTGGCAATGTTTCTTTTGTGATCGAGTAT  
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 GAGTGTCCCGAGACTGCAGAGGCGAAGTGCAGGCGGCCAGGCCCTCCAGCAGCAGTCCCGAGCAGAGGA  
 CTGGCCAACCAAGCGCACCAGGTGACACTTCAGTGAATGGCCCTGTA

**ACGGTACGCGGCCGCTCGAG** – GFP Tag – **GTTTAA**

Protein Sequence: >RG228606 representing NM\_001164160  
 Red=Cloning site Green=Tags(s)

MFWKFDLHSSSHIDTLEREDVTLKELMDEEDVLQECKAQNRLIEFLLKAECLDLSVFIIEPPQDMD  
 EKIRYKYPNISCELLTSDVVSQMNDRLGEDESLMLKLYSFLNDSPLNPLLASFFSKVLSILISRKPEQIV  
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 PTFEGHIEICPPGMSHSACSVNKSYLEAIRGLGSFHELLLEPPKKSVMKTTWGLDPPVGNTRLNVIRL  
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 SVGSDVWSTEEMPTKETGWASFSEFTSSLSTKDSLRSNSPVEMETSTEPMDPLTPSAAALAVQPEAAGS  
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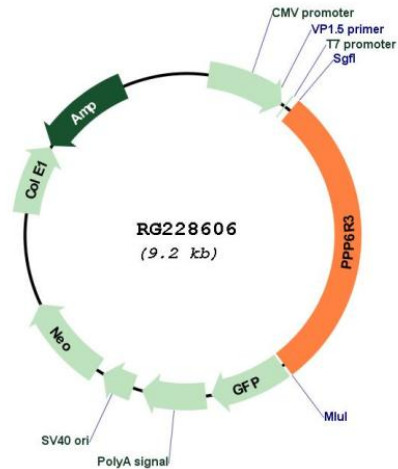
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001164160

**ORF Size:** 2637 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\\_001164160.2](#)

**RefSeq Size:** 5145 bp

**RefSeq ORF:** 2640 bp

**Locus ID:** 55291

**UniProt ID:** [Q5H9R7](#)

**Cytogenetics:** 11q13.2

**Gene Summary:** Protein phosphatase regulatory subunits, such as SAPS3, modulate the activity of protein phosphatase catalytic subunits by restricting substrate specificity, recruiting substrates, and determining the intracellular localization of the holoenzyme. SAPS3 is a regulatory subunit for the protein phosphatase-6 catalytic subunit (PPP6C; MIM 612725) (Stefansson and Brautigam, 2006 [PubMed 16769727]).[supplied by OMIM, Nov 2010]