

## Product datasheet for **RG202773**

### **PSP (REG1A) (NM\_002909) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PSP (REG1A) (NM\_002909) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** REG1 alpha  
**Synonyms:** ICRF; P19; PSP; PSPS; PSPS1; PTP; REG  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202773 representing NM\_002909  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCAGACCAGCTCATACTTCATGCTGATCTCCTGCCTGATGTTTCTGTCTCAGAGCCAAGGCCAAG  
AGGCCAGACAGAGTTGCCCCAGGCCGGATCAGCTGCCAGAAGGCACCAATGCCTATCGCTCCTACTG  
CTACTACTTTAATGAAGACCGTGAGACCTGGGTTGATGCAGATCTCTATTGCCAGAACATGAATTCGGGC  
AACCTGGTGTCTGTGCTCAGCCAGGCCGAGGGTGCCTTTGTGGCCTCACTGATTAAGGAGAGTGGCACTG  
ATGACTTCAATGTCTGGATTGGCTCCATGACCCCAAAAAGAACCCTGGCTGGCACTGGAGCAGTGGGTC  
CCTGGTCTCTACAAGTCTGGGCATTGGAGCCCAAGCAGTGTAAATCCTGGCTACTGTGTGAGCCTG  
ACCTCAAGCACAGGATCCAGAAATGGAAGGATGTGCCTTGTGAAGACAAGTTCTCCTTTGTCTGCAAGT  
TCAAAAAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG202773 representing NM\_002909  
**Red=Cloning site Green=Tags(s)**

MAQTSSYFMLISCLMFLSQSQGQEAQTELPQARISCEPGETNAYRSYCYFFNEDRETWVDADLYCQNMNSG  
NLVSVLTQAEGAFVASLIKESGTDVFNWVIGLHDPKKNRRWHWSSGSLVSYKSWGIGAPSSVNPYCVSL  
TSSTGFQKWKDVPCEDKFSFVCKFKN

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_002909

**ORF Size:** 498 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\\_002909.5](#)

**RefSeq Size:** 808 bp

**RefSeq ORF:** 501 bp

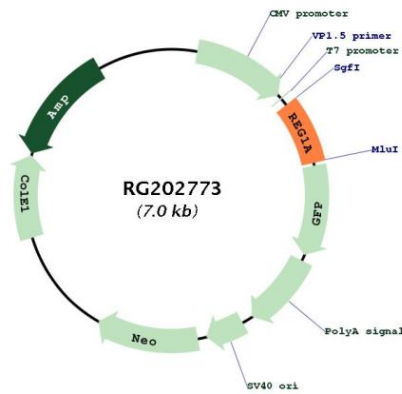
**Locus ID:** 5967

**UniProt ID:** [P05451](#)

**Cytogenetics:** 2p12

**Gene Summary:** This gene is a type I subclass member of the Reg gene family. The Reg gene family is a multigene family grouped into four subclasses, types I, II, III and IV, based on the primary structures of the encoded proteins. This gene encodes a protein that is secreted by the exocrine pancreas. It is associated with islet cell regeneration and diabetogenesis and may be involved in pancreatic lithogenesis. Reg family members REG1B, REGL, PAP and this gene are tandemly clustered on chromosome 2p12 and may have arisen from the same ancestral gene by gene duplication. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG202773