

## Product datasheet for **RG225493**

### PSG5 (NM\_001130014) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PSG5 (NM\_001130014) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PSG5  
**Synonyms:** FL-NCA-3; PSG  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG225493 representing NM\_001130014  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGCCCTCTCAGCCCTCCCTGCACACAGCACATCACCTGGAAGGGGCTCCTGCTCACAGCATCAC  
 TTTTAACTTCTGGAACCTGCCTATCACTGCTCAAGTCACGATTGAAGCCCTGCCACCCAAAGTTCCGA  
 GGGGAAGGATGTTCTTCTACTTGTCCACAATTTGCCTCAGAATCTTGCTGGCTACATCTGGTACAAAGGA  
 CAACTGATGGACCTCTACCATTACATTACATCATATGTAGTAGACGGTCAAATAAATATATATGGGCCTG  
 CATACTGGACGAGAAACAGTATATCCAAATGCATCCCTGCTGATCCAGAATGTCACCCGGGAAGACGC  
 AGGATCCTACACCTTACACATCATAAAGCGAGGTGATAGGACTAGAGGAGTAACTGGATATTTACCTTC  
 AACTTATACCTGAAGCTGCCAAGCCCTACATCACCATCAACAACCTCAAAACCCAGGGAGAATAAGGATG  
 TCTTAGCCTTACCTGTGAACCTAAGAGTGAGAACTACACCTACATTTGGTGGCTAAATGGTCAGAGCCT  
 CCCGGTCAGTCCCAGGGTAAAGCGACCCATTGAAAACAGGATCCTCATTCTACCCAGTGTACAGAGAAAT  
 GAAACAGGACCCATGAATGTGAAATACGGGACCGAGATGGTGGCATGCCAGTGACCCAGTCACCCCTGA  
 ATGTCCTCTATGGTCCAGACCTCCCAGCATTTACCCTTCATTACCTATTACCGTTCAGGAGAAAACCT  
 CTACTTGTCTGCTTCGCGGAATCTAACCACCCGAGAGTATTTTTGGACAATTAATGGGAAGTTTCAG  
 CAATCAGGACAAAAGCTCTATCCCCAAATTAACAAGCATAGAGGGCTCTATACTTGCTCTGTTC  
 GTAACCTAGCTACTGGCAAGGAAAGCTCCAATCCATGACAGTCGAAGTCTCTGCTCCTTCAGGAATAGG  
 ACGTCTTCTCTCCTTAATCCAATA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225493 representing NM\_001130014  
 Red=Cloning site Green=Tags(s)

MGPLSAPPCTQHITWKGLLLTASLLNFWNLPITAQVTIEALPPKVSEKDVLLL VHNLPQNLAGYIWKYK  
 QLMDLHYHITSYVVDGQINIYGPAYTGRETIVYSNASLLIQNVTREDAGSYTLHIKRGDRTRGVTFYFTF  
 NLYLKLKPKYITINNSKPRENKDVLAFITCEPKSENYTYIWWLNGQSLPVS PRVKRPIENRILILPSVTRN  
 ETGPYECEIRDRDGGMRSDPVTLNVL YGPDLP SIYPSFTYYRSGENLYLSCFAESNPPAEYFWTINGKFQ  
 QSGQKLSIPQITTKHRGLYTCSVRNSATGKSSKSM TVEVSAPSIGRLPLL NPI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001130014

**ORF Size:** 1005 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\\_001130014.2](#)

**RefSeq Size:** 1601 bp

**RefSeq ORF:** 1008 bp

**Locus ID:** 5673

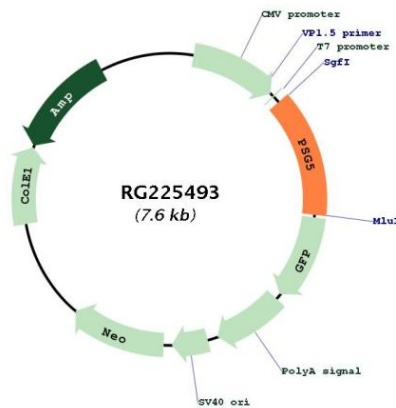
**UniProt ID:** [Q15238](#)

**Cytogenetics:** 19q13.31

**Protein Families:** Secreted Protein

**Gene Summary:** The human pregnancy-specific glycoproteins (PSGs) are a group of molecules that are mainly produced by the placental syncytiotrophoblasts during pregnancy. PSGs comprise a subgroup of the carcinoembryonic antigen (CEA) family, which belongs to the immunoglobulin superfamily. For additional general information about the PSG gene family, see PSG1 (MIM 176390).[supplied by OMIM, Oct 2009]

**Product images:**



Circular map for RG225493