

## Product datasheet for **RG221648**

### PSG7 (NM\_002783) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSG7 (NM_002783) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSG7
Synonyms:	PSBG-7; PSG1; PSGGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221648 representing NM_002783 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCCCTCTCAGCCCTCCCTGCACACAGCATATAACCTGGAAAGGGCTCCTGCTCACAGCATCAC  
TTTTAACTTCTGGAACCCGCCACCACAGCCCAAGTCACGATTGAAGCCAGCCACCAAAGTTTCTGA  
GGGAAGGATGTTCTTCTACTTGTCCACAATTTGCCCCAGAATCTTACTGGCTACATCTGGTACAAAGGA  
CAAATCAGGGACCTCTACCATTATGTTACATCATATGTAGTAGACGGTCAAATAATTAATATGGGCCTG  
CATACAGTGGACGAGAAACAGTATATCCAATGCATCCCTGCTGATCCAGAATGTCACCCAGGAAGACAC  
AGGATCCTACACTTTACACATCATAAAGCGAGGTGATGGGACTGGAGGAGTAAGTGGACGTTTCACCTTC  
ACCTTATACCTGGAGACTCCCAAACCTCCATCTCCAGCAGCAATTTCAACCCAGGGAGGCCACGGAGG  
CTGTGATCTTAACCTGTGATCCTGAGACTCCAGATGCAAGCTACCTGTGGTGGATGAATGGTCAGAGCCT  
CCCTATGACTCACAGCTTGCAGCTGTCTGAAACCAACAGGACCCTCTACCTATTTGGTGTCAAACTAT  
ACTGCAGGACCCTATGAATGTGAAATACGGAACCCAGTGAAGTCCAGCCGAGTACCCAGTCACCTGA  
ATCTCCTCCGAAGCTGCCAAGCCCTACATCACCATCAATAACTTAAACCCAGGGAGAATAAGGATGT  
CTCAACCTTACCTGTGAACCTAAGAGTGAGAACTACACCTACATTTGGTGGCTAAATGGTCAGAGCCTC  
CCGGTCAGTCCCAGGGTAAAGCGACGCAATTGAAAACAGGATCCTCATTCTACCCAGTGTCCAGGAAATG  
AAACAGGACCCTATCAATGTGAAATACGGGACCGATATGGTGGCATCCGAGTGACCCAGTCACCCCTGAA  
TGTCCTCTATGGTCCAGACCTCCCCAGAATTTACCCTTCGTTACCTATTACCATTACAGGACAAAACCTC  
TACTTGTCTGCTTTGCGGACTCTAACCACCGGCACAGTATTCTTGGACAATTAATGGGAAGTTTCAGC  
TATCAGGACAAAAGCTTTCTATCCCCAGATTACTACAAAGCATAGCGGGCTCTATGCTTGTCTGTTCC  
TAACTCAGCCACTGGCAAGGAAAGCTCAAATCCGTGACAGTCAGAGTCTCTGACTGGACATTACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG221648 representing NM\_002783  
 Red=Cloning site Green=Tags(s)

MGPLSAPPCTQHITWKGLLLTASLLNFWNPPTTAQVTIEAQPPKVSEKDVLLL VHNLPQNL TGYIWKYK  
 QIRDLYHYVTSYVVDGQIIKYGPAYSGRETVVSNASLLIQNVTQEDTGSYTLHI IKRGDGTGGVTGRFTF  
 TLYLETPKPSISSNFNPREATEAVIL TCDPETPDASYLWWMNGQSLPMTHSLQLSETNRTL YLFGVTNY  
 TAGPYECEIRNPVSASRSDPVTLNLLPKLPKYITINNLPRENKDVSTFTCEPKSENYTYIWWLNGQSL  
 PVSPRVKRRRIENRILILPSVTRNETGPYQCEIRDRYGGIRSDPVTLNVL YGPDLPRIYPSFTYYHSGQNL  
 YLSCFADSNPPAQYSWTINGKFQLSGQKLSIPQITTKHSGLYACSVRNSATGKESKSVTVRVSDWTLP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002783

**ORF Size:** 1257 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\\_002783.1](#), [NP\\_002774.1](#)

**RefSeq Size:** 1989 bp

**RefSeq ORF:** 1260 bp

**Locus ID:** 5676

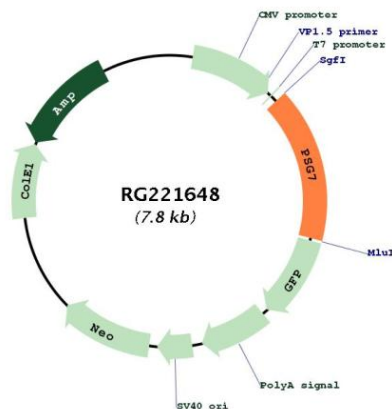
**UniProt ID:** [Q13046](#)

**Cytogenetics:** 19q13.31

**Protein Families:** Secreted Protein

**Gene Summary:** This gene is a member of the pregnancy-specific glycoprotein (PSG) gene family. The PSG genes are a subgroup of the carcinoembryonic antigen (CEA) family of immunoglobulin-like genes, and are found in a gene cluster at 19q13.1-q13.2 telomeric to another cluster of CEA-related genes. The PSG genes are expressed by placental trophoblasts and released into the maternal circulation during pregnancy, and are thought to be essential for maintenance of normal pregnancy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]

## Product images:



Circular map for RG221648