

## Product datasheet for **RG236847**

### PSG9 (NM\_001301709) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSG9 (NM_001301709) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSG9
Synonyms:	PS34; PSBG-9; PSBG-11; PSG11; PSGII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236847 representing NM_001301709. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGCCCTCCAGCCCTTCTGCACACAGCGCATCACCTGGAAGGGGCTCCTGCTCACAGCATCA
CTTTAAACTTCTGGAACCCGCCACCACTGCCGAAGTCACGATTGAAGCCAGCCACCCAAAGTTTCT
GAGGGGAAGGATGTTCTTCTACTTGTCCACAATTTGCCCCAGAATCTTCTGGCTACTTCTGGTACAAA
GGGGAATGACGGACCTTACCATTACATTATATCGTATATAGTTGATGGTAAAAAATTATATATGGG
CCTGCATACAGTGAAGAGAAACAGTATATTCCAACGCATCCCTGCTGATCCAGAATGTCACCCGGAAG
GATGCAGGAACCTACACCTTACACATCATAAAGCGAGGTGATGAGACTAGAGAAGAAATTCGACATTC
ACCTTCACCTTATACTATGGTCCAGACCTCCCCAGAATTTACCCTTCATTCACCTATTACCGTTCAGGA
GAAAACCTCGACTTGTCTGCTTACGGAATCTAACCACCGGCAGAGTATTTTTGGACAATTAATGGG
AAGTTTCAGCAATCAGGACAAAAGCTCTTTATCCCCAAATTAAGAAATCATAGCGGGCTCTATGCT
TGCTCTGTTCAACTCAGCCACTGGCAAGGAAATCTCCAAATCCATGACAGTCAAAGTCTCTGGTCCC
TGCCATGGAGACCTGACAGAGTCTCAGTCA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG236847  
 Blue=ORF Red=Cloning site Green=Tag(s)

MGPLPAPSCTQRITWKGLLLTASLLNFWNPPTTAEVTIEAQPPKVSEKDVLLL VHNLPQNLPGYFWYK  
 GEMTDL YHYIISYIVDGKIIYGPAYSGRETVYSNASLLIQNVTRK DAGTYTLHIKRGDETREEIRHF  
 TFTLYYGPDLRIYPSFTYYRSGENLDLSCFTESNPPAEYFWTINGKFQQSGQKLFIPQITRNHSGLYA  
 CSVHNSATGKEISKSMTVKVS GPCHGDLTESQS  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001301709

**ORF Size:** 720 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).

**RefSeq:** [NM\\_001301709.2](#)

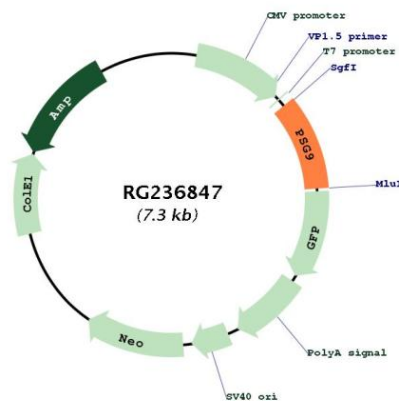
**RefSeq Size:** 1209 bp

**RefSeq ORF:** 723 bp

**Locus ID:** 5678  
**UniProt ID:** [Q00887](#)  
**Cytogenetics:** 19q13.31  
**Protein Families:** Secreted Protein  
**MW:** 27.5 kDa

**Gene Summary:** The protein encoded by this gene is a member of the pregnancy-specific glycoprotein (PSG) family. This protein family and the closely related carcinoembryonic antigen cell adhesion molecule (CEACAM) gene family are both members of the immunoglobulin superfamily, and are organized as a large gene cluster. This protein is thought to inhibit platelet-fibrinogen interactions. Several studies suggest that reduced serum concentrations of PSGs are associated with fetal growth restrictions, while up-regulation of this gene has been observed in colorectal cancers. Several pseudogenes of this gene are found on chromosome 19. Alternative splicing results in multiple transcript variants that encode multiple protein isoforms. [provided by RefSeq, Sep 2014]

### Product images:



Circular map for RG236847