

## Product datasheet for **SC113034**

### PSG3 (NM\_021016) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSG3 (NM_021016) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSG3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113034 sequence for NM_021016 edited (data generated by NextGen Sequencing)

```
ATGGGGCCCTCTCAGCCCTCCCTGCACACAGCGCATCACCTGGAAGGGGCTCCTGCTC
ACAGCATCACTTTTAAACTTCTGGAACCTGCCTACCACTGCCAAGTCACGATTGAAGCC
GAGCCAACCAAAGTTTCCAAGGGGAAGGACGTTCTTCTACTTGTCCACAATTTGCCCCAG
AATCTTGTGGCTACATCTGGTACAAAGGGCAAATGAAGGACCTCTACCATTACATTACA
TCATACGTAGTAGATGGTCAAATAATTATATATGGGCCTGCATACAGTGGACGAGAAACA
GTATATCCAATGCATCCCTGCTGATCCAGAATGTCACCCGGGAGGACGCAGGATCCTAC
ACCTTACACATCGTAAAGCGAGGTGATGGGACTAGAGGAGAACTGGACATTTACCTTC
ACCTTATACCTGGAGACTCCCAAGCCCTCCATCTCCAGCAGCAACTTATACCCAGGGAG
GACATGGAGGCTGTGAGCTTAACCTGTGATCCTGAGACTCCGGACGCAAGCTACCTGTGG
TGGATGAATGGTCAGAGCCTCCCTATGACTCACAGCTTGCAAGTTGTCCAAAAACAAAAGG
ACCCTCTTCTATTTGGTGTACAAAAGTACACTGCAGGACCCTATGAATGTGAAATACGG
AACCCAGTGAGTGCCAGCCGAGTGACCCAGTACCCTGAATCTCCTCCCGAAGCTGCC
AAGCCCTACATCACCATCAACAACCTTAAACCCAGGGAGAATAAGGATGTCTTAGCCTTC
ACCTGTGAACCTAAGAGTGAGAACTACACCTACATTTGGTGGCTAAATGGTCAGAGCCTC
CCGGTCAGTCCCAGGGTAAAGCGACCCATTGAAAACAGGATCCTCATTCTACCCAGTGTC
ACGAGAAATGAAACAGGACCCTATCAATGTGAAATACAGGACCGATATGGTGGCATCCGC
AGTTACCCAGTACCCTGAATGCCTCTATGGTCCAGACCTCCCCAGAATTTACCTTCA
TTCACCTATTACCATTCAGGAGAAAACCTTACTTGTCTGCTTCGCGGACTCTAACCCA
CCAGCAGAATATTCTGGACAATTAATGGGAAGTTTCAGCTATCAGGACAAAAGCTTTT
ATCCCCAGATTACTACAAAGCATAGCGGGCTCTATGCTTGTCTGTTCGTAACCTCAGCC
ACTGGCATGGAAGCTCCAAATCCATGACAGTCAAAGTCTCTGCTCCTTCAGGAACAGGA
CATCTTCTGGCCTTAATCCATTATAG
```

Clone variation with respect to NM\_021016.3  
68 t=>c



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_021016 unedited  
 NGGGTCACAATTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAGAAGCCATGC  
 TCAGGAAGTTTCTGGATCCTAGGCTCAGCTCCACAGAGGAGAACACGCAGGCAGCAGAGA  
 CATGGGGCCCCTCTCAGCCCCTCCCTGCACACAGCGCATCACCTGGAAGGGGCTCCTGCT  
 CACAGCATCACTTTTAACTTCTGGAACCCGCCTACCACTGCCAAGTCACGATTGAAGC  
 CGAGCCAACCAAGTTTCCAAGGGGAAGGACGTTCTTCTACTTGTCCACAATTTGCCCA  
 GAATCTTGGCTACATCTGGTACAAAGGGCAAATGAAGGACCTCTACCATTACATTAC  
 ATCATACGTAGTAGATGGTCAAATAATTATATATGGGCCTGCATACAGTGGACGAGAAAC  
 AGTATATTCCAATGCATCCCTGCTGATCCAGAATGTCACCCGGGAGGACGAGGATCCTA  
 CACCTTACACATCGTAAAGCGAGGTGATGGGACTAGAGGAGAACTGGACATTTACCTT  
 CACCTTACCTGGAGACTCCCAAGCCCTCCATCTCCAGCAGCAACTTATACCCAGGGA  
 GGACATGGAGGCTGTGAGCTTAACCTGTGATCCTGAGACTCCGGACGCAAGCTACCTGTG  
 GTGGATGAATGGTCAGAGCCTCCCTATGACTCACAGCTTGCAGTTGTCCAAAAACAAAAG  
 GACCCCTTTTCTATNTGGTGTACAAAAGTACACTGCANGACCCTATGAATGTGAAATACG  
 GAACCCAGTGAGTGCCAGCCGAGTGACCCAGTACCCTGAATCTNCTNCCNGAGCTGCC  
 CAAGCCCTACATACCATCAACAACCTANNACCCAGGGAGAATNANGGNATGTCTAGCCC  
 TTCACCTGTGAACCTNNAGAGTGAGAACTACACCTACATTNNGGTGNGCTAAATG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_021016 unedited  
 GGCCTACTTAGNTACGTGCCGATTTTANGATCGGTTTTTTTTTTTTTTTTTTTGAACCT  
 GTGCAGATAACTTTATTACCATAAACATATGAATACTCCTGAATAGTTTCCCAATTCTGG  
 GGCCTTAGGGAGCAAAAGCAAATGTTTCAATTTTTGTTTACAAAAGTATACTTTACCAA  
 TTGCTGAAGAAAAAATGCATAAATCTGGAGAATAAAACATTCAAAGAATCAGCACATTT  
 TCAAATAGAAAAATATGAAAACATTGTTTTGACTATTTAGTCCAATAAAAATGGGTTTTT  
 TTCTTTGTCTTGAATTTTCAAGTATCAGCCTGTTTATTAAAAATTTTGAAGTTCTTAG  
 TCCAGTGGTATGATCTTGAAGTTATCAGGAACCTGTATTCAAGAGTCCTTGTGAGAGTCT  
 TTTCAAATCTCCTTGAACAAAAGCAATTTTGGACTGTAGCTGATGGTAAATACTTTG  
 AGGAAGAATGAAAGCAACTGTCTGCCAGTCTTCTGAAATACAGAAATGACATCAGCGCT  
 GCTATAATGGATTAAGGCCAGGAAGATGTCCTGTTCTGAAGGAGCAGAGACTTTGACTG  
 TCATGGATTTGGAGCTTCCATGCCAGTGGCTGAGTTACGAACAGAGCAAGCATAGAGCC  
 CGCTATGCTTTGTAGTAATCTGGGGATAAAGAGCTTTTGTCTGATAGCTGANACTTCC  
 CATTAATTGTCCAAGAATATTCTGCTGGTGGGTTAGAGTCCGCGAATGCAGACAAGTAGA  
 GGTTTTCTCCTGAATGGTNAATAGTAAAATGAGGGGAAAATCTGGGGAGGTCTGGGACAT  
 ANAGGACATTCAGGNTGACTGGGNTACTGCCGATGCACCCTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_021016

**Insert Size:**

2000 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_021016.2](#), [NP\\_066296.1](#)

**RefSeq Size:** 2004 bp

**RefSeq ORF:** 1287 bp

**Locus ID:** 5671

**UniProt ID:** [Q16557](#)

**Cytogenetics:** 19q13.2

**Domains:** ig, IGc2, IG

**Protein Families:** Secreted Protein

**Gene Summary:** The human pregnancy-specific glycoproteins (PSGs) are a family of proteins that are synthesized in large amounts by placental trophoblasts and released into the maternal circulation during pregnancy. Molecular cloning and analysis of several PSG genes has indicated that the PSGs form a subgroup of the carcinoembryonic antigen (CEA) gene family, which belongs to the immunoglobulin superfamily of genes. Members of the CEA family consist of a single N domain, with structural similarity to the immunoglobulin variable domains, followed by a variable number of immunoglobulin constant-like A and/or B domains. Most PSGs have an arg-gly-asp (RGD) motif, which has been shown to function as an adhesion recognition signal for several integrins, in the N-terminal domain (summary by Teglund et al., 1994 [PubMed 7851896]). For additional general information about the PSG gene family, see PSG1 (MIM 176390).[supplied by OMIM, Oct 2009]