

## Product datasheet for **SC118407**

### PSG5 (NM\_002781) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSG5 (NM_002781) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSG5
Synonyms:	FL-NCA-3; PSG
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118407 sequence for NM_002781 edited (data generated by NextGen Sequencing)

```

ATGGGGCCCTCTCAGCCCTCCCTGCACACAGCACATCACCTGGAAGGGGGTCCTGCTC
ACAGCATCACTTTTAAACTTCTGGAACCTGCCTATCACTGCTCAAGTCACGATTGAAGCC
CTGCCACCCAAAGTTTCCGAGGGGAAGGATGTTCTTCTACTTGTCCACAATTTGCCTCAG
AATCTTGCTGGCTACATCTGGTACAAAGGACAACCTGATGGACCTCTACCATTACATTACA
TCATATGTAGTAGACGGTCAAATAAATATATATGGGCCTGCATACACTGGACGAGAAACA
GTATATCCAATGCATCCCTGCTGATCCAGAATGTCACCCGGGAAGACGCAGGATCCTAT
ACCTTACACATCATAAAGCGAGGTGATAGGACTAGAGGAGTAACTGGATATTTACCTTC
AACTTATACCTGAAGCTGCCAAGCCCTACATCACCATCAACAACCTCAAACCCAGGGAG
AATAAGGATGTCTTAGCCTTACCTGTGAACCTAAGAGTGAGAACTACACCTACATTTGG
TGGCTAAATGGTCAGAGCCTCCCGGTGAGTCCAGGGTAAAGCAACCCATTGAAAACAGG
ATCCTCATTCTACCCAGTGTACGAGAAATGAAACAGGACCCTATGAATGTGAAATACGG
GACCGAGATGGTGGCATGCACAGTGACCCAGTCAACCTGAATGTCTCTATGGTCCAGAC
CTCCCCAGCATTTACCCTTACCTTACCTATTACCGTTCAGGAGAAAACCTCTACTTGTCC
TGCTTCGCGGAATCTAACCACCGGCAGAGTATTTTTGGACAATTAATGGGAAGTTTCAG
CAATCAGGACAAAAGCTCTCTATCCCCAAATTACTACAAAGCATAGAGGGCTCTATACT
TGCTCTGTTTCGTAACCTCAGCCACTGGCAAGGAAAGCTCCAAATCCATGACAGTCGAAGTC
TCTGCTCCTTCAGGAATAGGACGCTTCTCCTCTCCTTAATCCAATATAG

```

Clone variation with respect to NM\_002781.3  
52 c=>g;360 c=>t;584 g=>a;680 g=>a;921 t=>c



[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002781 unedited  
 CAACATATTTGTAATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGGACAGCA  
 CAGCCTACAGCCGTGCTCAGGAAGTTTCTGGATCCTAGGCTCAGCTCCACAGAGGAGAAC  
 ACGCAGGCGCAGAGACCATGGGGCCCTCTCAGCCCTCCCTGCACACAGCACATCACCT  
 GGAAGGGGGTCTGCTCACAGCATCACTTTTAACTTCTGGAACCTGCCTATCACTGCTC  
 AAGTCACGATTGAAGCCCTGCCACCCAAAGTTTCCGAGGGGAAGGATGTTCTTCTACTTG  
 TCCACAATTTGCCTCAGAATCTTGCTGGCTACATCTGGTACAAAGGACAACCTGATGGACC  
 TCTACCATTACATTACATCATATGTAGTAGACGGTCAAATAAATATATATGGGCCTGCAT  
 ACACTGGACGAGAAACAGTATATTCCAATGCATCCCTGCTGATCCAGAATGTCACCCGGG  
 AAGACGCAGGATCCTATACCTTACACATCATAAAGCGAGGTGATAGGACTAGAGGAGTAA  
 CTGGATATTTACCTTCAACTTATACCTGAAGCTGCCAAGCCCTACATCACCATCAACA  
 ACTCANAACCCAGGAGAATAAGGATGTCTTAGCCTTACCTGTGAACCTAAGAGTGAGA  
 ACTACACCTACATTTGGTGGCTAAATGGTCAGAGCCTCCCGGTGAGTCCAGGGTAAAGC  
 AACCCATTNGAAACAGGATCCTCATTCTACCCAGTGTACAGAGAAATGAAACAGGACCT  
 ATGAATGTGAAATACGGGACCGAGATGGTGGCATGCACAGTGACCCAGTCCCTGATGT  
 TCTCTATGGTCCAGACCTCCCGACTTTTACCCTTCACTTACCTATTACGTTTCAGANAA  
 AACTCTACTGTTCTGCTTCGCGGAATCTACCCACGGCCGAGTATTTTTGACAATTAGGGA  
 AG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002781 unedited  
 TCGAGTTTTTATATTTTTTTTTTTTGAAGTTGTGCAGATAACTTTATTACCATAAACATA  
 TGAATACTCATGAATAGTTTCCCAATTCTGGGGCACTCAGATAGAGAGTAAAAGCAAATG  
 TTTCAATTTTTGTTTACAAAAGTATACTTTACCAATTGCTCAAGAAAAAAGTTCATAAA  
 TCTGGAGAATAAAACATTCAAAGAATCAGCACATTTTCAAATAGAAAATTATGAAAACAT  
 TATGCTTTTGATTATTTAGTCCAATAACATGGAGTTTTTTTTCTTCTTTGTCTAGAATTT  
 ATGAAGGTATCAGCCTGTTCAATTTTAAATTTTGAAGTTCTTAGTCCAGTGGTATGATCTT  
 GAAGTTATCAGGAAGTTGATTCAAGAGTCCTTGTGAGTCTTTTCCATAAATCTCCTG  
 CCAGTCTTCTGAAATACAGAAATGACTTACGGCTGCTATATTGGATTAAGGAGAGGAA  
 GACGTCCTATTCTGAAGGAGCAGAGACTTCGACTGTGATGGATTTGGAGCTTTCCTTGC  
 CAGTGGCTGAGTTACGAACAGAGCAAGTATAGAGCCCTATGCTTTGTAGTAATTTGGG  
 GGATAGAGAGCTTTTGTCTGATTGCTGAAACTTCCCATTAATTGTCCAAAAATACTCTG  
 CCGGTGGGTTAGATTCGCGAAGCAGGACAAGTAGAGGTTTTCTCCTGAACGGTATAGG  
 TGAATGAAGGGTAAATGCTGGGGAGGTTCTGGGACATANAGGACATTCAGGGTACTGGG  
 TCACTGTGCATGCCAACATCTCGGTCCCGATTTACATTCATAGGGTCTGTTTCAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002781

**Insert Size:**

1600 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_002781.2</a></u> , <u><a href="#">NP_002772.2</a></u>
<b>RefSeq Size:</b>	1636 bp
<b>RefSeq ORF:</b>	1008 bp
<b>Locus ID:</b>	5673
<b>UniProt ID:</b>	<u><a href="#">Q15238</a></u>
<b>Cytogenetics:</b>	19q13.31
<b>Domains:</b>	ig, IGc2, IG
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) is the longer transcript. Both variants 1 and 2 encode the same protein.</p>