

## Product datasheet for SC107858

### PSG2 (NM\_031246) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PSG2 (NM_031246) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSG2
Synonyms:	CEA; PSBG2; PSG1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107858 sequence for NM_031246 edited (data generated by NextGen Sequencing)

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ATGGGGCCCTCTCAGCCCTCCCTGCACAGAGCACATCAAATGGAAGGGGCTCCTGGT
ACAGCATCACTTTTAACTTCTGGAACCTGCCCAACTGCCCAAGTACGATTGAAGCC
CAGCCACCAAAAGTTTCGAGGGGAAGGATGTTCTTCTACTTGTCCACAATTTGCCCCAG
AATCTTACTGGCTACATCTGGTACAAAAGGGCAAATCAGGGACCTTACCATTACATTACA
TCATATGTAGTAGACGGTCAAATAATTATATATGGGCCTGCATATAGTGGACGAGAAACA
GCATATTTCCAATGCATCCCTGCTGATCCAGAATGTCACCCGGGAGGACGCAGGATCCTAC
ACCTTACACATCATAAAGCGAGGTGATGGGACTAGAGGAGTAAGTGATATTTACCTTC
ACCTTATACCTGGAGACTCCCAAGCCCTCCATCTCCAGCAGCACTTAAACCCAGGGAG
GCCATGGAAGACTGTGATCTTAACCTGTGATCCTGAGACTCCGGACACAAGCTACCAGTGG
TGGATGAATGGTACAGAGCCTCCCTATGACTCATAGGTTTTAGCTGTCCGAAACCAACAGG
ACCTCTTTTCTATTTGGTGTCACAAAAGTATACTGCAGGACCCTATGAATGTGAAATACGG
AACTCAGGGAGTGCCAGCCGAGTGACCCAGTACCCTGAATCTCCTCCATGGTCCAGAC
CTCCCCAGAAATCACCTTCATACACCAATTACCGTTTCAGGAGATAACCTCTACTTGTCT
TGCTTCGCGAACTCTAACCCACCGGCACAGTATTCTTGGAACAATAATGGGAAGTTTCAG
CAATCAGGACAAAATCTGTTTATCCCCAAATTAATAAAGCATAGCGGGCTCTATGTT
TGCTCTGTTTCGTAACCTCAGCCACTGGCGAGGAAAGCTCCACATCGTTGACAGTCAAAGTC
TCTGCTTCTACAAGAATAGGACTTCTTCCTCCTTAATCCAACATAG
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Clone variation with respect to NM\_031246.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_031246 unedited</p> <pre> NGGTTCCCATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGACAGCAC AGCTGACAGCCGTGCTCAGGAAGTTTCTGGATCCTAGGCTCATCTCCACAGAGGAGAACA CACAGGCAGCAGAGACCATGGGGCCCCTCTCAGCCCCCTCCTGCACAGAGCACATCAAAAT GGAAGGGGCTCCTGGTCACAGCATCACTTTAACTTCTGGAACCTGCCACCCTGGCC AAGTCACGATTGAAGCCCAGCCACAAAAGTTTCCGAGGGGAAGGATGTTCTTCTACTTG TCCACAATTTGCCCCAGAATCTTACTGGCTACATCTGGTACAAAAGGGCAAATCAGGGACC TCTACCATTACATTACATCATATGTAGTAGACGGTCAAATAAATTATATATGGGCCTGCAT ATAGTGGACGAGAAACAGCATATTCCAATGCATCCCTGCTGATCCAGAATGTCACCCGGG AGGACGCAGGATCCTACACCTTACACATCATAAAGCGAGGTGATGGGACTAGAGGAGTAA CTGGATATTTACCTTACCTTATACCTGGAGACTCCCAGCCCTCCATCTCCAGCAGCA ACTTANACCCCAGGGAGGCCATGGAAACTGTGATCTAACCTGTGATCCTGAGACTCCGG GACACAGTACCAGTGGTGGATGAATGGTCAGAGCCTCCCTATGACTCATANGTTTCAGC TGTCCGAAACCACAGGACCCTTTTCTATTTGGTGTCAAGAATACTGCAGGACCCTAT GATGTGAAATACNGAACTCAAGGAGTGCCAGCCGAGTGAACCACTCACCCCTGAATCTC TCCATGGTCCAGACTCCAGAATTACCCCTCATACACCATTACCGTTACAGAGATACC TCTACTTGGCTTGT </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_031246 unedited</p> <pre> NANGATCAGTTTTTTTTTTTTTTTTTAACTTTGCTCTTGCTAGNAAGTTTTTAATAA GAAATCTCAGATTAACCTCCAAAACCTTTGAGACTAGGAAGCCAAACCAAGGCCAC TTCAGACTTTGCCTGCATCCCTATGGGTTTATTCTATGTATATTCTCAAATATAACATC CCAGTCAAAGCCTTGATAATATAATCAATGTTTTCAAATGTGTCCTGTTATAAAGAGAGC AGATTCTTACTGAACTTTGTGCAATAGCTTTATTACCATAAACATATGAATACTCATGAA TAGATTCCCAATTCTGGGCACTCAGATAGAGAGCAAAAGGAAATGTTTCAATTTTTTGT TACAAAAGTATACTTTACCAATTGCTCAAGAAAAAATGTTCATAAATCTGGAGAATGAAA CATTCCAAGAATCAGCACATTTTCAAATAGAAAAATATGAAATCATTATCCTTTTGATTA TTTAGTCCAATAACATTGAGTATTTTTCTTTGCTTGAATTTTCATGAAGGATCAGC CTGTTTCATTAATAATTTTGAAGTTCTTAGTCCAGTGGATGATCTTGAAGTTATCAGGAG CTTGATTCAAGAGTCTTTGTAAGAGACCTTCCATAAATCTCCTGCCAGTCTTCTGAA ATACAGAAATGACATCACAGCTGCTATGTTGGATTAAGGAGAGGAAGAAAGTCTATTNCT GTAAAAGCAGAGACTTTGACTGTCAACGATGTGGGAGCTTTCCTCGCCAGTGGCTGAGGT ACGAACAGAGCAAAACATAGAGCCGCTATGCTTNGNAGTAAATTTGGGGATAAACAGAT TTTTGCCGATTGCTGAAACTT </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_031246
<b>Insert Size:</b>	1600 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_031246.1](#), [NP\\_112536.1](#)

**RefSeq Size:** 1523 bp

**RefSeq ORF:** 1008 bp

**Locus ID:** 5670

**UniProt ID:** [P11465](#)

**Cytogenetics:** 19q13.31

**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]