

Product datasheet for **SC321119**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_031246.1
 GCAGAAGGAGGAAGGACAGCACAGCTGACAGCCGTGCTCAGGAAGTTTCTGGATCCTAGG
 CTCATCTCCACAGAGGAGAACACACAGGCAGCAGAGACCATGGGGCCCTCTCAGCCCCT
 CCCTGCACAGAGCACATCAAATGGAAGGGGCTCCTGCTCACAGCATCACTTTAAACTTC
 TGGAACTGCCCACCCTGCCAAGTCACGATTGAAGCCCAGCCACCAAAAGTTTCCGAG
 GGAAGGATGTTCTTCTACTTGTCCACAATTTGCCCAAGATCTTACTGGCTACATCTGG
 TACAAAGGGCAAATCAGGGACCTTACCATTACATTACATCATATGTAGTAGACGGTCAA
 ATAATTATATATGGCCTGCATATAGTGGACGAGAAACAGCATATTCCAATGCATCCCTG
 CTGATCCAGAATGTCACCCGGGAGGACGAGGATCCTACACCTTACACATCATAAAGCGA
 GGTGATGGGACTAGAGGAGTAACTGGATATTTACCTTACCTTATACCTGGAGACTCCC
 AAGCCCTCCATCTCCAGCAGCAACTTAAACCCAGGGAGGCCATGGAACTGTGATCTTA
 ACCTGTGATCCTGAGACTCCGGACACAAGCTACCAGTGGTGGATGAATGGTCAGAGCCTC
 CCTATGACTCACAGGTTTCAGCTGTCCGAAACCAACAGGACCCTCTTTCTATTTGGTGT
 ACAAGTATACTGCAGGACCCTATGAATGTGAAATACGGAACCTCAGGGAGTGCCAGCCGC
 AGTGACCCAGTCACCCTGAATCTCCTCCATGGTCCAGACCTCCCAGAATTCACCCTTCA
 TACACCAATTACCGTTCAGGAGATAACCTCTACTTGTCTTGTCTCGCGAACTCTAACCCA
 CCGGCACAGTATTCTTGGACAATTAATGGGAAGTTTCAGCAATCAGGACAAAATCTGTTT
 ATCCCCAAAATTACTACAAAGCATAGCGGGCTCTATGTTTGTCTGTTTCGTAACCTCAGCC
 ACTGGCGAGGAAAGCTCCACGTCGTTGACAGTCAAAGTCTCTGCTTCTACAAGAATAGGA
 CTTCTTCTCTCCTTAATCCAACATAGCAGCTGTGATGTCATTTCTGTATTTTCAGGAAGA
 CTGGCAGGAGATTTATGGAAAGTCTCTTACAAGGACTCTTGAATACAAGCTCCTGATAA
 CTTCAAGATCATAACCTGGACTAAGAACTTTCAAATTTTAAATGAACAGGCTGATACCT
 TCATGAAATTCAGACAAAGAAGAAAAATACTCAATGTTATTGGACTAAATAATCAAAG
 GATAATGATTTTCATAATTTTCTATTTGAAAATGTGCTGATTCTTGAATGTTTCATTCTC
 CAGATTTATGAACATTTTTTCTTGTGCAATTGGTAAAGTATACTTTTGTAAACAAAAATT
 GAAACATTTCTTTTGTCTCTATCTGAGTGCCCCAGAATTGGGAATCTATTCATGAGTA
 TTCATATGTTTATGGTAATAAGCTATTTGCACAAGTTGAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_031246

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_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]