

Product datasheet for **SC303243**

PSG7 (NM_002783) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSG7 (NM_002783) Human Untagged Clone
Tag:	Tag Free
Symbol:	PSG7
Synonyms:	PSBG-7; PSG1; PSGGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303243 representing NM_002783. Blue=Insert sequence Red=Cloning site Green=Tag(s)

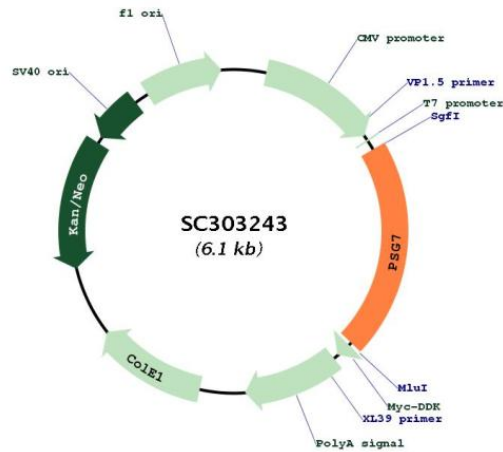
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GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGGGCCCTCTCAGCCCTCCCTGCACACAGCATATAACCTGGAAAGGGCTCCTGCTCACAGCATCA
CTTTTAAACTTCTGGAACCCGCCACCACAGCCCAAGTCACGATTGAAGCCAGCCACCAAAAGTTTCC
GAGGGGAAGGATGTTCTTCTACTTGTCCACAATTTGCCCCAGAATCTTACTGGCTACATCTGGTACAAA
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CCTGCATACAGTGGACGAGAAACAGTATATTCCAATGCATCCCTGCTGATCCAGAATGTCACCCAGGAA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_002783

Insert Size: 1260 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).

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_002783.2](#)

RefSeq Size: 2046 bp

RefSeq ORF: 1260 bp

Locus ID: 5676

UniProt ID: [Q13046](#)

Cytogenetics: 19q13.31

Protein Families: Secreted Protein

MW: 47 kDa

Gene Summary: This gene is a member of the pregnancy-specific glycoprotein (PSG) gene family. The PSG genes are a subgroup of the carcinoembryonic antigen (CEA) family of immunoglobulin-like genes, and are found in a gene cluster at 19q13.1-q13.2 telomeric to another cluster of CEA-related genes. The PSG genes are expressed by placental trophoblasts and released into the maternal circulation during pregnancy, and are thought to be essential for maintenance of normal pregnancy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longest isoform (1). This version of transcript variant 1 represents the protein-coding minority allele. A second version of transcript variant 1 represents the major allele of this polymorphic locus with a mismatch compared to the reference genome sequence.