

Product datasheet for **RC238171**

Pregnancy Specific Glycoprotein 1 (PSG1) (NM_001297773) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pregnancy Specific Glycoprotein 1 (PSG1) (NM_001297773) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSG1
Synonyms:	B1G1; CD66f; DHFRP2; FL-NCA-1/2; PBG1; PS-beta-C/D; PS-beta-G-1; PSBG-1; PSBG1; PSG95; PSGGA; PSGIIA; SP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238171 representing NM_001297773
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAACCCCTCTCAGCCCTCCCTGCACACAGCGCATCAAATGGAAGGGGCTCCTGCTCACAGCATCAC
 TTTTAAACTTCTGGAACCTGCCACCCTGCCCCAAGTCACGATTGAAGCCGAGCCAACCAAAGTTCCGA
 GGGGAAGGATGTTCTTCTACTTGTCCACAATTTGCCCCAGAATCTTACCGGTACATCTGGTACAAAGGG
 CAAATGAGGGACCTCTACCATTACATTACATCATATGTAGTAGACGGTAAATAATTATATATGGCCTG
 CATATAGTGGACGAGAAACAGCATATTTCAATGCATCCCTGCTGATCCAGAATGTCACCCGGGAGGACGC
 AGGATCTACACCTTACACATCATAAAGGGAGATGATGGGACTAGAGGAGTAACTGGACGTTTACCTTC
 ACCTTACACCTGGAGACTCCTAAGCCCTCCATCTCCAGCAGCAACTTAAATCCCAGGGAGACCATGGAGG
 CTGTGAGCTTAACCTGTGACCCTGAGACTCCAGACGCAAGCTACCTGTGGTGGATGAATGGTCAGAGCCT
 CCCTATGACTCACAGCTTGAAGCTGTCCGAAACCAACAGGACCCTCTTTCTATTGGGTGTCACAAAGTAT
 ACTGCAGGACCCTATGAATGTGAAATACGGAACCCAGTGAGTGCCAGCCGAGTACCCAGTACCCCTGA
 ATCTCCTCCCGAAGCTGCCCAAGCCCTACATCACCATCAACAACCTAAACCCAGGGAGAATAAGGATGT
 CTTAAACTTACCTGTGAACCTAAGAGTGAGAACTACACCTACATTTGGTGGCTAAATGGTCAGAGCCTC
 CCGGTCAGTCCCAGGGTAAAGCGACCCATTGAAAACAGGATCCTCATTCTACCCAGTGTACAGAGAAATG
 AAACAGGACCCTATCAATGTGAAATACGGGACCGATATGGTGGCATCCGAGTGACCCAGTACCCCTGAA
 TGTCTCTATGGTCCAGACCTCCCAGAATTTACCCTTACCTATTACCGTTCAGGAGAAGTCCCTC
 TACTTGTCTGTCTGCGGACTTAACCCACCGGCACAGTATTCTTGGACAATTAATGAAAAGTTTCAGC
 TACCAGGACAAAAGCTCTTTATCCGCCATATTACTACAAAGCATAGCGGGCTCTATGTTTGTCTGTTCG
 TAACTCAGCCACTGGCAAGGAAAGCTCCAATCCATGACAGTCGAAGTCTCTGCTTATAGCAGTTCAATA
 AACTATACTTCTGGGAACCGTAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238171 representing NM_001297773
 Red=Cloning site Green=Tags(s)

MGTL SAPPCTQRIKWKGLLLTASLLNFWNLPTTAQVTIEAEPKTVSEKDVLLL VHNLPQNL TGYIWK
 QMRDL YHYITSYVVDGEII IYGPAYSGRETAYSNASLLIQNVTREDAGSYTLHI IKGDDGTRGVTGRFTF
 TLHLET PKPSISSNLPRETMEAVSL TCDPETPDASYLWWMNGQSLP MTHSLKL SETNRTL FLLGVTKY
 TAGPYECEIRNPVSASRSDPVTLNLLPKLPKYITINNLPRENKDVLFNFTCEPKSENYTYIWWLNGQSL
 PVSPRVKRP IENRILILPSVTRNETGPYQCEIRDRYGGIRSDPVTLNVL YGPDLPRIYPSFTYYRSGEVL
 YLSCSADSNPPAQYSWTINEKFLPGQKLFIRHITTKHSLYVCSVRNSATGKESKSMTEVVSAYSSSI
 NYTSGNRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

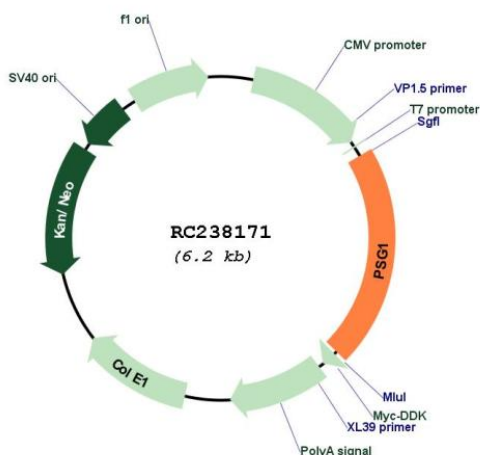
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001297773

ORF Size: 1284 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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_001297773.2
RefSeq Size:	1882 bp
RefSeq ORF:	1287 bp
Locus ID:	5669
UniProt ID:	P11464
Cytogenetics:	19q13.2
Protein Families:	Secreted Protein
MW:	48.6 kDa
Gene Summary:	The human placenta is a multihormonal endocrine organ that produces hormones, enzymes, and other molecules that support fetal survival and development. Pregnancy-specific beta-1-glycoprotein (PSBG, PSG) is a major product of the syncytiotrophoblast, reaching concentrations of 100 to 290 mg/l at term in the serum of pregnant women (Horne et al., 1976 [PubMed 971765]). PSG is a member of the immunoglobulin (Ig) superfamily (Watanabe and Chou, 1988 [PubMed 3257488]; Streydio et al., 1988 [PubMed 3260773]).[supplied by OMIM, Oct 2009]