

Specifications:

Gene:	hPSG1
Accession:	NP_001171754
Insert size:	1273bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

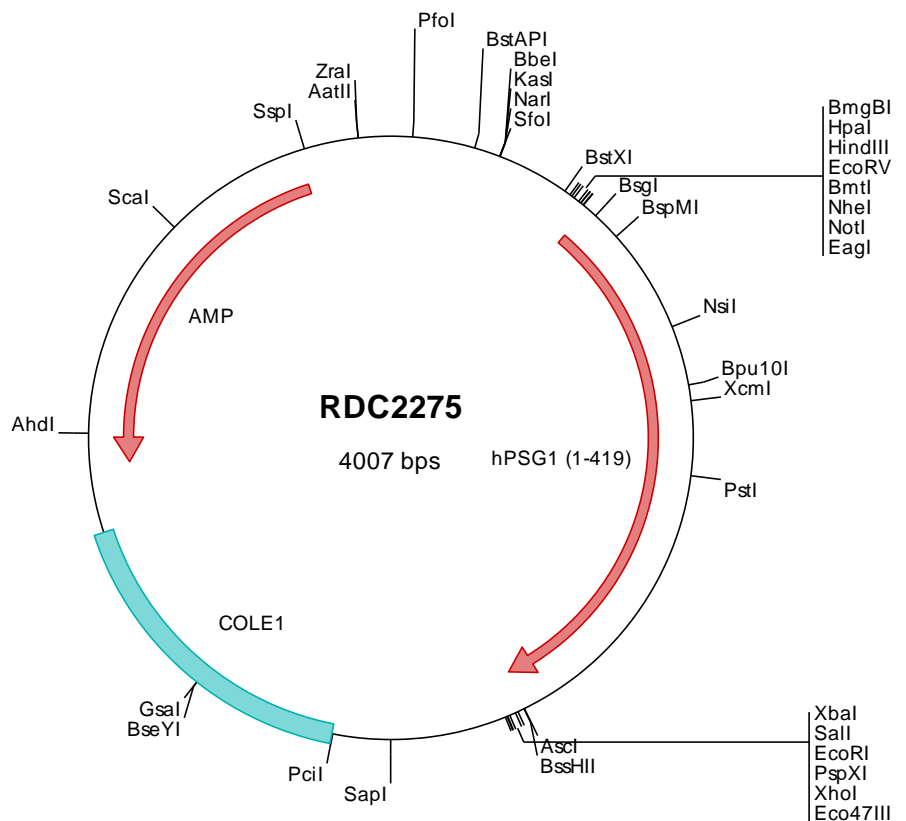
hPSG1 cDNA Plasmid

PSG1 pregnancy specific beta-1-glycoprotein 1 [*Homo sapiens* (human)]

Also known as: SP1; B1G1; PBG1; CD66f; PSBG1; PSG95; PSGGA; DHFRP2; PSBG-1; PSGIIA; FL-NCA-1/2; PS-beta-C/D; PS-beta-G-1

Summary:

PSG1 is part of the carcinoembryonic antigen (CEA) family and serve as early biochemical markers of syncytiotrophoblast formation. It is produced by syncytial cells in the placenta and is detectable in the maternal plasma as early as 2-3 weeks following fertilization and increase as pregnancy progresses. PSG1 fosters an anti-inflammatory uterine environment by inducing IL-10, IL-6, and TGF-beta 1 secretion. Additionally, PSG1 is believed to mediate placental vascular morphogenesis by enhancing VEGF-A production and endothelial tube formation.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2275 Plasmid DNA Sequence

```

1 tcgctgctgtt cggatgatgac ggtgaaaacc totgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attgccatt caggctcgcg aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301 tacgccagct ggcgaaaagg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgtaatt
401 ggagacgtgt taacaagcct ggatccgata tcgctagcgc ggccgcacc atgggaacc tctcagccc tccctgcaca cagcgcata aatggaagg
501 gctcctgctc acagcatcac ttttaaactt ctggaacctg cccaccactg ccaagtcc gattgaagcc gagccaacca aagtttccga ggggaaggat
601 gtttctctac ttgtocacaa ttgccccag aatcttaccg gtacatctg gtacaaagg caatgaggg acctctacca ttacattaca tcatatgtag
701 tagacggtga ataaattata tatgggcctg catatagtgg acgagaaaca gcattattcca atgcctccct gctgatccag aatgtcacc gggagggac
801 aggatcctac accttacaca tcataaagg agatgatggg actagaggag taactggagc tttcaacctc accttacacc tgagactcc taagccctcc
901 atctccagca gcaacttaa tcccaggag accatggagg ctgtgagctt aacctgtgac cttgagactc cagacgcaag ctacctgtg tgatgaaatg
1001 gtcagagcct ccctatgact cacagcttga agctgtccga aaccaacagg accctcttcc tattgggtgt cacaaagtat actgcaggac ccatgaaatg
1101 tgaaatacgg aacccagtga gtgccagccg cagtgaacca gtcaccctga atctctccc gaagctgccc aagccctaca tcaccatcaa caacttaaac
1201 cccagggaga ataaggatgt cttaaaactc acctgtgaac ctaagatga gaactacacc tacatttgg ggctaaatg tcagagcctc ccggtcagtc
1301 ccagggtaaa cgacgacatt gaaaaagg tcctcattct accagtgctc aaccaaggacc ctatcaatgt gaaatacggg accgatatg
1401 tggctcctgc agtgaaccag tcaccctgaa tgtctctat ggctccagacc tccccagaa ttaccctca ttcaccctatt accgttccag agaagtctcc
1501 taactgtcct ggtctgcgga ctctaaacca ccggcacagt attcttggac aattaatgaa aagttcagc taccaggaca aaagctcttt atccgcaata
1601 ttaactacaa gcatacgagg ctctatgttt gctctgttcc taactcagcc actggcaagg aaagctccaa atccatgaca gtcgaagtct ctcagtgga
1701 agttccctaa aggcgcgcca gtatactcta gactcgacac ccggggaatt cctcgagcgc tcgtctctag cttggcgtaa tcattggtcatt agctgtttcc
1801 tgttgaaat tggttatccgc tcacaattcc acacaacata cgagccggaa gcataaagt tgaagcctgg ggtgcctaat gactgagctta actcacatta
1901 attgctgttc gctcactgcc cgtttccag tcgggaaaacc tgcgtgcca gctgcatata tgaatcgcc aacgcgctgg gagagcggt ttgctattg
2001 ggcgctcttc cgttctctcg ctcaactgact cgtctcgctc ggtcgttccg ctgcgagcag cggatcagc tcactcaaa gcgtaataac ggttatccac
2101 agaatacagg gataacgcag gaaagaacct gtgagcaaaa ggccagcaaa agccagga gactataaa gataccagcc gtttcccct ggaagctccc
2201 gcccccctcg acgacatca caaaaatcga cgtcaagtc agaggtggcg aaaccgcaca ggactataaa gataccagcc gtttcccct ggaagctccc
2301 cctgtcgctc tcctgttccg acctgcccgc ttaccggata cctgtcccgc tttctcccct cgggaagcgt ggcgctttct caatgtccac gctgtaggta
2401 tctcagttcg gtgtaggtgc ttctgctcaa gctgggctgt gtgcacgaac cccccttca gcccagccgc tgcgcttat ccgtaacta tcgtcttgag
2501 tccaaccgg taagacacga cttatcgcca ctggcagcag ccactgttaa caggattagc agagcaggt atgtaggcgg tgctacagag tttctgaaat
2601 ggtggcctaa ctacgctac actagaagga cagtatttgg tatctgcctc ctgctgaagc cagttacctt cggaaaaaga gttggtagct cttgatccgg
2701 caaaacaaac accgctgcta cgggtggttt tttgtttgc aagcagcaga ttaocgcag aaaaaaagg tctcaagaag atcctttgat cttttctacg
2801 gggctctgac ctcagtgaaa cgaaaactca cgttaaggga ttttggctat gagattatca aaaaggatct tcacctagat ccttttaaat taaaaatgaa
2901 gttttaaatc aatctaaagt atatatgagt aaactgtgct tgacagtacc caatgcttaa tcagtggagc acctatctca gcgatctgct tattctgctc
3001 atccatagtt gcctgactcc cgtctgtgta gataactacg atacgggagc gcttaccatc tggccccagt gctgcaatga taccgcgaga cccacgctca
3101 ccggctccag atttatcagc aataaaccag ccagccggaa gggccgagcg cagaagtggt cctgcaactt tatccgctc catccagctc attaatgtt
3201 gccgggaagc tagagtaagt agttcgccag ttaatatgtt gcgcaacgct gttgccaatt ctacagggc atcggtgtca cgtcgtcgt ttggatggc
3301 ttcattcagc tccggttccc aacgatcaag cgcagttaca tgatccccca tgttgtgcaa aaaagcgtt agctcctcg gtcctccgat cgttgcaga
3401 agtaagttgg ccgagtggt atcactcatg gttatggcag cactgcataa ttctctact gtcactgcat ccgtaagatg cttttctgtg actggtgagt
3501 actcaaccaa gtcattctga gaatagtgtg tgcggcgacc gagttgctct tgcccggcgt caatacggga taataccgcg ccacatagca gaactttaa
3601 agtgctcatc attgaaaaac gttcttcggg cggaaaaactc tcaaggatct taaccgtgtt gagatccagt tcgatgtaac ccaactgtgc acccaactga
3701 tcttcagcat cttttacttt caccagcgtt tctgggtgag caaaaacagg aaggcaaaat gccgcaaaaa agggaataag ggcgacacgg aaatgtgaa
3801 tactcactat cttctttttt caatattatt gaagcattta tcagggttat tgtctcatga gcggatacat atttgaaatg atttagaaaa ataaacaaat
3901 aggggttccg cgcacatttc cccgaaaagt gccacctgac gtctaagaaa ccattattat catgacatta acctataaaa ataggcgtat caccagggccc
4001 tttctgct

```

> RDC2275 Translated Insert Sequence

```

1 mgtlsappct qrikwkglll taslnfnwl pttaqvtiea eptkvsgek d vlllvhnlpq nltgyiwyk qmrdlyhyit syvvdgeiii ygpaysgret
101 aysnaslliq nvtredagsy tlhiikgddg trgvtrftf tlhletpkps issnlnpre tmeavsltd petpdasyw wmnqgslpmt hsklsetnr
201 tlfllygtky tagpyeair npvsasrsdp vlnllpklp kpyitinnln prenkdvlnf tcepkseyt yiwvlnqsl pvsprvkrpi enrillpsv
301 trnetgpyqc eirdryggir sdpvtnlvly gpdlpriyps ftyyrsevl ylscsadsnp paqyswtine kfqlpgqklf irhittkhsy lyvcsvrnsa
401 tkessksmt vevsdwtp

```