

Product datasheet for **RC204742**

PSG9 (NM_002784) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSG9 (NM_002784) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSG9
Synonyms:	PS34; PSBG-9; PSBG-11; PSG11; PSGII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204742 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCCCTCCAGCCCTTCTGCACACAGCGCATCACCTGGAAGGGGCTCCTGCTCACAGCATCAC
 TTTTAAACTTCTGGAACCGCCACCCTGCGAAGTCACGATTGAAGCCAGCCACCAAGTTTCTGA
 GGGGAAGGATGTTCTTCTACTTGTCCACAATTTGCCCCAGAATCTTCTGGCTACTTCTGGTACAAAGG
 GAAATGACGGACCTTACCATTACATTATATCGTATATAGTTGATGGTAAAATAATTATATATGGGCCTG
 CATACAGTGAAGAGAAACAGTATATTCCAACGCATCCCTGCTGATCCAGAATGTCACCCGGAAGGATGC
 AGGAACCTACACCTTACACATCATAAAGCGAGGTGATGAGACTAGAGAAGAAATTCGACATTTACCTTC
 ACCTTATACTTGGAGACTCCCAAGCCCTACATCTCCAGCAGCACTTAAACCCAGGGAGGCCATGGAGG
 CTGTGCGCTTAATCTGTGATCCTGAGACTCTGGACGCAAGCTACCTATGGTGGATGAATGGTCAGAGCCT
 CCCTGTGACTCACAGTTGCAGCTGTCCAAAACCAACAGGACCCTCTATCTATTTGGTGTCAAAAGTAT
 ATTGCAGGACCCTATGAATGTGAAATACGGAACCCAGTGAGTGCCAGTCCGAGTACCCAGTACCCCTGA
 ATCTCCTCCCGAAGCTGCCCATCCCTACATCACCATCAACAACCTAAACCCAGGGAGAATAAGGATGT
 CTTAGCCTTACCTGTGAACCTAAGAGTGAGAACTACACCTACATTTGGTGGCTAAACGGTCAGAGCCTC
 CCCGTCAGTCCCGGGTAAAGCGACCCATTGAAAACAGGATACTCATTCTACCCAGTGTACAGAGAAATG
 AAACAGGACCCTATCAATGTGAAATACAGGACCGATATGGTGGCCTCCGAGTAACCCAGTCATCTAAA
 TGTCTCTATGGTCCAGACCTCCCAGAATTTACCCTTACCTATTACCGTTCAGGAGAAAACCTC
 GACTTGTCTGCTTACGGAATTAACCCACCGCAGAGTATTTTGGACAATTAATGGGAAGTTTCAGC
 AATCAGGACAAAAGCTCTTTATCCCCAAATTAAGAAATCATAGCGGGCTCTATGCTTGTCTGTTCA
 TAACTCAGCCACTGGCAAGGAAATCTCCAATCCATGACAGTCAAAGTCTCTGGTCCCTGCCATGGAGAC
 CTGACAGAGTCTCAGTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204742 protein sequence
 Red=Cloning site Green=Tags(s)

MGPLPAPSCTQRITWKLLLLTASLLNFWNPPTTAEVTIEAQPPKVSSEKDVLLL VHNLPQNLPGYFWYKG
 EMTDLYHYIISYIVDGKIIYGPAYSGRETIVSNASLLIQNVTRKDAGTYTLHIKRGDETREEIRHFTF
 TLYLETPKPYISSNLPREAMEAVRLICDPETLDASYLWWMNGQSLPVTHRLQLSKTNRTLYLFGVTKY
 IAGPYECEIRNPVSASRSDPVTLNLLPKLPYITINNLPRENKDVLAFTCEPKSENYTYIWWLNGQSL
 PVSPGVKRPENRILILPSVTRNETGPYQCEIQDRYGGLRNPVILNVL YGPDLPRIYPSFTYYRSGENL
 DLSCFTESNPPAEYFWTINGKFQQSGQKLFIPQITRNHSLYACSVHNSATGKEISKSMYKVSVPCHGD
 LTESQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6666_b04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_002784

ORF Size: 1278 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:

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_002784.2](#), [NP_002775.2](#)

RefSeq Size: 1767 bp

RefSeq ORF: 1281 bp

Locus ID: 5678

UniProt ID: [Q00887](#)

Cytogenetics: 19q13.31

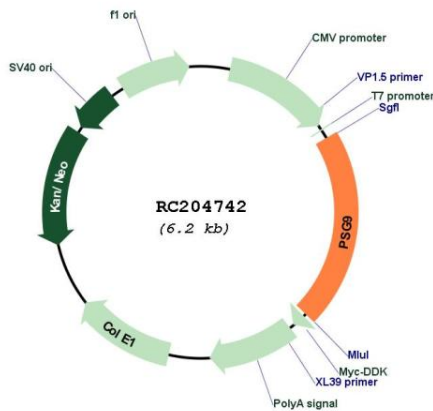
Domains: ig, IGc2, IG

Protein Families: Secreted Protein

MW: 48.2 kDa

Gene Summary: The protein encoded by this gene is a member of the pregnancy-specific glycoprotein (PSG) family. This protein family and the closely related carcinoembryonic antigen cell adhesion molecule (CEACAM) gene family are both members of the immunoglobulin superfamily, and are organized as a large gene cluster. This protein is thought to inhibit platelet-fibrinogen interactions. Several studies suggest that reduced serum concentrations of PSGs are associated with fetal growth restrictions, while up-regulation of this gene has been observed in colorectal cancers. Several pseudogenes of this gene are found on chromosome 19. Alternative splicing results in multiple transcript variants that encode multiple protein isoforms. [provided by RefSeq, Sep 2014]

Product images:



Circular map for RC204742