

Product datasheet for **RC203252**

PSG3 (NM_021016) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSG3 (NM_021016) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PSG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203252 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCCCTCTCAGCCCCTCCCTGCACACAGCGCATCACCTGGAAGGGGCTCCTGCTCACAGCATTAC
TTTTAACTTCTGGAACCTGCCTACCACTGCCAAGTCACGATTGAAGCCGAGCCAACCAAAGTTTCCAA
GGGAAGGACGTTCTTCTACTTGTCCACAATTTGCCCGAGAATCTTGCTGGCTACATCTGGTACAAAGGG
CAAATGAAGGACCTCTACCATTACATTACATACATACGTAGTAGATGGTCAAATAATTATATATGGGCCTG
CATACAGTGGACGAGAAACAGTATATTCCAATGCATCCCTGCTGATCCAGAATGTCACCCGGGAGGACGC
AGGATCCTACACCTTACACATCGTAAAGCGAGGTGATGGGACTAGAGGAGAAACTGGACATTTTACCTTC
ACCTTATACCTGGAGACTCCCAAGCCCTCCATCTCCAGCAGCAACTTATACCCCGAGGAGGACATGGAGG
CTGTGAGCTTAACCTGTGATCCTGAGACTCCGGACGCAAGCTACCTGTGGTGGATGAATGGTCAGAGCCT
CCCTATGACTCACAGCTTGCAGTTGTCCAAAAACAAAAGGACCCTCTTTCTATTTGGTGTCAAAAGTAC
ACTGCAGGACCCTATGAATGTGAAATACGGAACCCAGTGAGTGCCAGCCGAGTGACCCAGTCACCTGA
ATCTCCTCCCGAAGCTGCCCAAGCCCTACATCACCATCAACAACCTAAACCCAGGGAGAATAAGGATGT
CTTAGCCTTACCTGTGAACCTAAGAGTGAGAACTACACCTACATTTGGTGGCTAAATGGTCAGAGCCTC
CCGGTCAGTCCCAGGGTAAAGCGACCCATTGAAAACAGGATCCTCATTCTACCCAGTGTCAGGAGAAATG
AAACAGGACCCTATCAATGTGAAATACAGGACCGATATGGTGGCATCCGAGTTACCCAGTCACCCCTGAA
TGTCTCTATGGTCCAGACCTCCCAGAAATTTACCTTACCTATTACCTATTACCTTACAGGAGAAAACCTC
TACTTGTCTGCTTCGCGGACTCTAACCCACCAGCAGAATATTCTTGGACAATTAATGGGAAGTTTCAGC
TATCAGGACAAAAGCTCTTTATCCCCAGATTACTACAAAGCATAGCGGGCTCTATGCTTGTCTGTTCG
TAACTCAGCCACTGGCATGGAAGCTCCAAATCCATGACAGTCAAGTCTCTGCTCCTCAGGAACAGGA
CATCTTCTGGCCTTAATCCATTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC203252 protein sequence
Red=Cloning site Green=Tags(s)

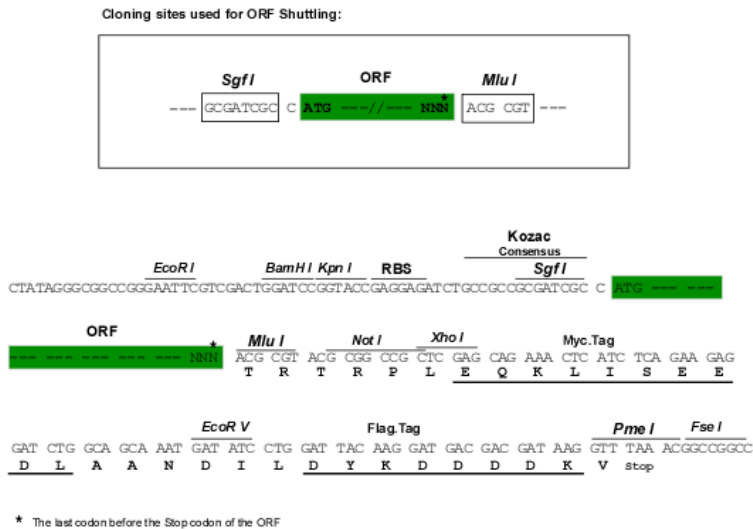
MGPLSAPPCTQRITWKGLLLTALLNFWNLPPTTAQVTIEAEPKVKSGKDVLLL VHNLPQNLAGYIWKYK
 QMKDLYHYITSYVVDGQIIYGPAYSGRETIVYSNASLLIQNVTREDAGSYTLHIVKRGDGTGETGHFTF
 TLYLETPKPSISSNLYPREDMEAVSLTCDPETPDASYLWWMNGQSLPMTHSLQLSKNKRTLFLFGVTKY
 TAGPYECEIRNPVSASRSDPVTLNLLPKLPKYITINNLPRENKDVLAFTCEPKSENYTYIWWLNGQSL
 PVSPRVKRP IENRILILPSVTRNETGPYQCEIQDRYGGIRSYPTLVNLVYGPDLPRIYPSFTYYHSGENL
 YLSCFADSNPPAEYSWTINGKFQLSGQKLFIPQITTKHSGLYACSVRNSATGMESKSMTEVVSAPSGTG
 HLPGLNPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6577_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021016

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:

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_021016.4](#)

RefSeq Size: 1922 bp

RefSeq ORF: 1287 bp

Locus ID: 5671

UniProt ID: [Q16557](#)

Cytogenetics: 19q13.2

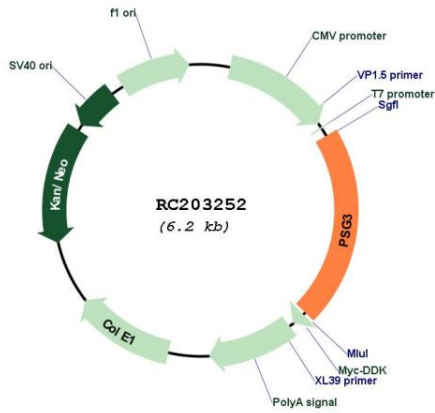
Domains: ig, IGc2, IG

Protein Families: Secreted Protein

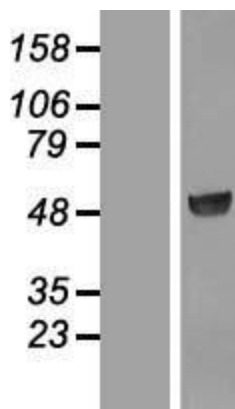
MW: 47.9 kDa

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]

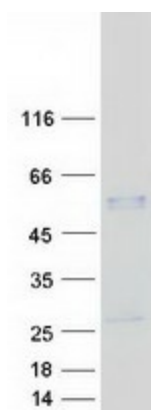
Product images:



Circular map for RC203252



Western blot validation of overexpression lysate (Cat# [LY412142]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203252 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PSG3 protein (Cat# [TP303252]). The protein was produced from HEK293T cells transfected with PSG3 cDNA clone (Cat# RC203252) using MegaTran 2.0 (Cat# [TT210002]).