

Product datasheet for **RG203134**

PSG5 (NM_002781) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PSG5 (NM_002781) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PSG5
Synonyms: FL-NCA-3; PSG
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203134 representing NM_002781
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGGCCCTCTCAGCCCTCCCTGCACACAGCACATCACCTGGAAGGGGGTCTGCTCACAGCATCAC
TTTTAACTTCTGGAACCTGCCTATCACTGCTCAAGTCACGATTGAAGCCCTGCCACCCAAAGTTCCGA
GGGAAGGATGTTCTTCTACTTGTCCACAATTTGCCTCAGAATCTTGCTGGCTACATCTGGTACAAAGGA
CAACTGATGGACCTCTACCATTACATTACATCATATGTAGTAGACGGTCAAATAAATATATATGGGCCTG
CATACACTGGACGAGAAACAGTATATCCAAATGCATCCCTGCTGATCCAGAATGTCACCCGGGAAGACGC
AGGATCCTATACCTTACACATCATAAAGCGAGGTGATAGGACTAGAGGAGTAACTGGATATTTACCTTC
AACTTATACCTGAAGCTGCCAAGCCCTACATCACCATCAACAACCTCAAAACCCAGGGAGAATAAGGATG
TCTTAGCCTTACCTGTGAACCTAAGAGTGAGAACTACACCTACATTTGGTGGCTAAATGGTCAGAGCCT
CCCGGTCACTCCAGGGTAAAGCAACCCATTGAAAACAGGATCCTCATTCTACCCAGTGTACAGAGAAAT
GAAACAGGACCCTATGAATGTGAAATACGGGACCGAGATGGTGGCATGCACAGTGACCCAGTCACCTGA
ATGTCCTCTATGGTCCAGACCTCCCAGCATTTACCCTTCATTACCTATTACCGTTCAGGAGAAAACCT
CTACTTGTCTGCTTCGCGGAATCTAACCACCCGAGAGTATTTTTGGACAATTAATGGGAAGTTTCAG
CAATCAGGACAAAAGCTCTATCCCCAAATTAACAAGCATAGAGGGCTCTATACTTGCTCTGTTC
GTAACCTAGCCACTGGCAAGGAAAGCTCAAATCCATGACAGTCGAAGTCTCTGCTCCTTCAGGAATAGG
ACGTCTTCTCTCCTTAATCAATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG203134 representing NM_002781
 Red=Cloning site Green=Tags(s)

MGPLSAPPCTQHITWKGVLLTASLLNFWNLPITAQVTIEALPPKVSEKDVLLL VHNLPQNLAGYIWKYK
 QLMDLYHYITSYVVDGQINIYGPAYTGRETIVYSNASLLIQNVTREDAGSYTLHIKRGDRTRGVTFYTF
 NLYLKLKPKPYITINNSKPRENKDVLAFITCEPKSENYTYIWWLNGQSLPVS PRVKQPIENRILILPSVTRN
 ETGPYECEIRDRDGMHSDPVTNLNLYGPDLP S IYPSFTYYRSGENLYLSCFAESNPPAEYFWTINGKFQ
 QSGQKLSIPQIITTKHRGLYTC SVRNSATGKESSK SMTVEVSAPSIGRLPLL NPI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002781

ORF Size: 1005 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_002781.2](#), [NP_002772.2](#)

RefSeq Size: 1636 bp

RefSeq ORF: 1008 bp

Locus ID: 5673

UniProt ID: [Q15238](#)

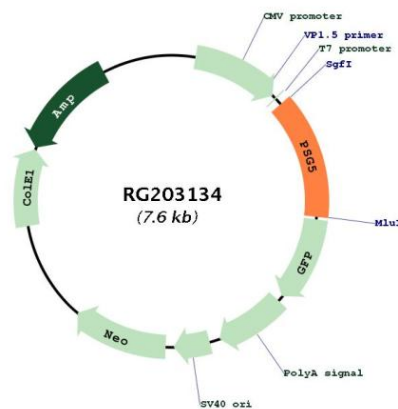
Cytogenetics: 19q13.31

Domains: ig, IGc2, IG

Protein Families: Secreted Protein

Gene Summary: The human pregnancy-specific glycoproteins (PSGs) are a group of molecules that are mainly produced by the placental syncytiotrophoblasts during pregnancy. PSGs comprise a subgroup of the carcinoembryonic antigen (CEA) family, which belongs to the immunoglobulin superfamily. For additional general information about the PSG gene family, see PSG1 (MIM 176390).[supplied by OMIM, Oct 2009]

Product images:



Circular map for RG203134