

Product datasheet for RC204743L3

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OriGene Technologies, Inc.

PSG2 (NM_031246) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: PSG2 (NM 031246) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: PSG2

Synonyms: CEA; PSBG2; PSG1

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

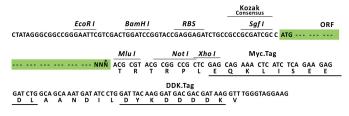
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC204743).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_031246

ORF Size: 1005 bp



PSG2 (NM_031246) Human Tagged Lenti ORF Clone - RC204743L3

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: <u>NM 031246.1</u>

RefSeq Size: 1612 bp RefSeq ORF: 1008 bp

Locus ID: 5670

 UniProt ID:
 P11465

 Cytogenetics:
 19q13.31

Domains: ig, IGc2, IG

Protein Families: Secreted Protein

MW: 37.2 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]