

## Product datasheet for RC205650L3

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OriGene Technologies, Inc.

## GPSM2 (NM\_013296) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** GPSM2 (NM\_013296) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: GPSM2

Synonyms: CMCS; DFNB82; LGN; PINS

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(RC205650).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





 $<sup>\</sup>ensuremath{^*}$  The last codon before the Stop codon of the ORF.

**ACCN:** NM\_013296

ORF Size: 2031 bp





## GPSM2 (NM\_013296) Human Tagged Lenti ORF Clone - RC205650L3

**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 013296.4</u>, <u>NP 037428.2</u>

 RefSeq Size:
 3039 bp

 RefSeq ORF:
 2055 bp

 Locus ID:
 29899

 UniProt ID:
 P81274

 Cytogenetics:
 1p13.3

**Domains:** TPR, GoLoco

**Protein Families:** Druggable Genome

**MW:** 75.8 kDa

**Gene Summary:** The protein encoded by this gene belongs to a family of proteins that modulate activation of

G proteins, which transduce extracellular signals received by cell surface receptors into integrated cellular responses. The N-terminal half of this protein contains 10 copies of leu-gly-asn (LGN) repeat, and the C-terminal half contains 4 GoLoco motifs, which are involved in guanine nucleotide exchange. This protein may play a role in neuroblast division and in the development of normal hearing. Mutations in this gene are associated with autosomal

recessive nonsyndromic deafness (DFNB82). Alternative splicing results in multiple transcript

variants. [provided by RefSeq, Mar 2016]