OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC111910

GPSM2 (NM_013296) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPSM2 (NM_013296) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPSM2
Synonyms:	CMCS; DFNB82; LGN; PINS
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

Fully Sequenced ORF:

>OriGene ORF within SC111910 sequence for NM_013296 edited (data generated by NextGen Sequencing)

ATGGAGGAAAATTTGATAAGCATGAGAGAAGACCATTCTTTTCATGTTCGTTACAGAATG
GAAGCTTCTTGCCTAGAGCTGGCCTTGGAAGGGGAACGTCTATGTAAATCAGGAGACTGC
CGCGCTGGCGTGTCATTCTTTGAAGCTGCAGTTCAAGTTGGAACTGAAGACCTAAAAACA
CTTAGCGCTATTTACAGCCAGTTGGGCAATGCTTATTTCTATTTGCATGATTATGCCAAA
GCATTAGAATATCACCATCATGATTTAACCCTTGCAAGGACTATTGGAGACCAGCTGGGG
GAAGCGAAAGCTAGTGGTAATCTGGGAAACACCTTAAAAGTTCTTGGGAATTTTGACGAA
GCCATAGTTTGTTGTCAGCGACACCTAGATATTTCCAGAGAGCTTAATGACAAGGTGGGA
GAAGCAAGAGCACTTTACAATCTTGGGAATGTGTATCATGCCAAAGGGAAAAGTTTTGGT
TGCCCTGGTCCCCAGGATGTAGGAGAATTTCCAGAAGAAGTGAGAGATGCTCTGCAGGCA
GCCGTGGATTTTTATGAGGAAAACCTATCATTAGTGACTGCTTTGGGTGACCGAGCGGCA
CAAGGACGTGCCTTTGGAAATCTTGGAAACACACATTACCTCCTTGGCAACTTCAGGGAT
GCAGTTATAGCTCATGAGCAGCGTCTCCTTATTGCAAAAGAATTTGGAGATAAAGCAGCT
GAAAGAAGAGCATATAGCAACCTTGGAAATGCATATATATTTCTTGGTGAATTTGAAACT
GCCTCGGAATACTACAAGAAGACACTACTGTTGGCCCGACAGCTTAAAGACCGAGCTGTA
GAAGCACAGTCTTGTTACAGTCTTGGAAATACATATACTTTACTTCAAGACTATGAAAAG
GCCATTGATTATCATCTGAAGCACTTAGCAATTGCTCAAGAGCTGAATGATAGAATTGGT
GAAGGAAGAGCATGTTGGAGCTTAGGAAATGCATACACAGCACTAGGAAATCATGATCAA
GCAATGCATTTTGCTGAAAAGCACTTGGAAATTTCAAGAGAGGTTGGGGATAAAAGTGGT
GAACTAACAGCACGACTTAATCTCTCAGACCTTCAAATGGTTCTTGGTCTGAGCTACAGC
ACAAATAACTCCATAATGTCTGAAAATACTGAAATTGATAGCAGTTTGAATGGTGTACGC
CCCAAGTTGGGACGCCGGCATAGTATGGAAAATATGGAACTTATGAAGTTAACACCAGAA
AAGGTACAGAACTGGAACAGTGAAATTCTTGCTAAGCAAAAACCTCTTATTGCCAAACCT
TCTGCAAAGCTACTCTTTGTCAACAGACTGAAGGGGAAAAAATACAAAACGAATTCCTCC
ACTAAAGTTCTCCAAGATGCCAGTAATTCTATTGACCACCGAATTCCAAATTCTCAGAGG
AAAATCAGTGCAGATACTATTGGAGATGAAGGGTTCTTTGACTTATTAAGCCGATTTCAA
AGCAATAGGATGGATGATCAGAGATGTTGCTTACAAGAAAAGAACTGCCATACAGCTTCA
ACAACAACNNNTTCCACTCCCCCTAAAATGATGCTAAAAACATCATCTGTTCCTGTGGTA
TCCCCCAACACGGATGAGTTTTTAGATCTTCTTGCCAGCTCACAGAGTCGCCGTCTGGAT
GACCAGAGGGCTAGTTTCAGTAATTTGCCAGGGCTTCGTCTAACACAAAACAGCCAGTCG
GTACTTAGCCACCTGATGACTAATGACAACAAAGAGGCTGATGAAGATTTCTTTGACATC
CTTGTAAAATGTCAAGGATCCAGATTAGATGATCAAAGATGTGCTCCACCACCTGCTACC
ACAAAGGGTCCGACAGTACCAGATGAAGACTTTTTCAGCCTTATTTTACGGTCCCAGGGA
AAGAGAATGGATGAACAGAGAGTTCTTTTACAAAGAGATCAAAACAGAGACACTGACTTT
GGGCTAAAGGACTTTTTGCAAAATAATGCTTTGTTGGAGTTTAAAAATTCAGGGAAAAAA
TCGGCAGACCATTAG

Clone variation with respect to NM_013296.4
1569 t=>n;1570 t=>n;1571 c=>n

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_013296 unedited
GGATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGCGCGCCGGC
CTCCTGCGGTGCCCCTGCCTTGGGGAGGGGCCGTGACCACCCGTCTGTCGCCCGAGGCGG
CCGCCGCTGCACCTTCACCGCGTACCCGGGACCCGCCCGCCCGCGGGAGCTTATAATATG
ACTCGATGGAGGAAAATTTGATAAGCATGAGAGAAGACCATTCTTTTCATGTTCGTTACA
GAATGGAAGCTTCTTGCCTAGAGCTGGCCTTGGAAGGGGAACGTCTATGTAAATCAGGAG
ACTGCCGCGCTGGCGTGTCATTCTTTGAAGCTGCAGTTCAAGTTGGAACTGAAGACCTAA
AAACACTTAGCGCTATTTACAGCCAGTTGGGCAATGCTTATTTCTATTTGCATGATTATG
CCAAAGCATTAGAATATCACCATCATGATTTAACCCTTGCAAGGACTATTGGAGACCAGC
TGGGGGAAGCGAAAGCTAGTGGTAATCTGGGAAACACCTTAAAAGTTCTTGGGAATTTTG
ACGAAGCCATAGTTTGTTGTCAGCGACACCTAGATATTTCCAGAGAGCTTAATGACAAGG
TGGGAGAAGCAAGAGCACTTTACAATCTTGGGAATGTGTATCATGCCAAAGGGAAAAGTT
TTGGTTGCCCTGGTCCCCAGGATGTAGGAGAATTTCCAGAAGAGTGAGAGATGCTCTGCA
NGCAGCCGTGGATTTTTATGAGGAAAACCTATCATTAGTGACTGCTTTGGGTGACCGAGC
GGCACAAGGACGTGCCTTTGGAAATCTTGNAACACACATTACCTNCTTGGNNCACTCAGG
NATGCANGTATAGCTCATGAGCAGCGTCTCCTTATTGCAAAAGAATTTGGAGATNAAGCA
GCTGAAAGAAGAGCATATAACACCCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_013296 unedited
GGGGGGGGGGGGGTTTAANNNGTTTTNTTNNNNNNNNNGNNNGTTGGCTATTTTTATCAC
TTTTTTNCATTGNTNCAAGTACATTATTTTTACCAAACCAACATTGTTTCCCACTACATC
CATGGTTATGTATAAAAAACCGCCATTGTCAATTAAGATGTTAAAAAATTATTTCCATAA
GAGTATTAAATTCTAATCTATGATTCACTTAACTTCCTACTTTATAAACACTAGGTAAAG
TAATCTCACAAGCTGCCAAAGAACACATCCCAAGCAGTAATCACAGACGATGAAGCACCT
TACAGGACCCCTCCACCCTCAAACGCGCATGTCCAGAGAAGTATTAATGCCTTAATAGAC
TACTGAAGGTTAACTATTTACATCATTCTAAAAATATTTTAAGCTGTATTACAGTGCTAT
AAATTCTCCTTTTAAGGAAAAAAGTAATAGATTGTTTCCTTACCGTGTTTGAAAGGAAAA
AAAATAAATCCATAGTAACTAATGGTCTGCCGATTTTTTCCCTGAATTTTTAAACTCCAA
CAAAGCATTATTTTGCAAAAAGTCCTTTAGCCCAAAGTCAGTGTCTCTGTTTTGATCTCT
TTGTAAAAGAACTCTCTGTTCATCCATTCTCTTTCCCTGGGACCGTAAAATAAGGCTGAA
AAAGTCTTCATCTGGTACTGTCGGACCCTTTGTGGTAGCAGGTGGTGGAGCACATCTTTG
ATCATCTAATCTGGATCCTTGACATTTTACAAGGATGTCAAAGAAATCTTCATCAGCCTC
TTTGTTGTCATTAGTCATCAGGTGGCTAAGTACCGACTGGCTGTTTTGTGTTAGACGAAG
CCCTGGCAAATTACTGAAACTAGCCCTCTGGTCATCCAGACGGCGACTCTGTGAGCTGGC
AGAAGATCTAAAACTCATNCGTGTTGGGGGATACCACAG

Restriction Sites: NotI-NotI

ACCN: NM_013296

Insert Size: 3080 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

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_013296.3, NP_037428.2
RefSeq Size:	2806 bp
RefSeq ORF:	2034 bp
Locus ID:	29899
UniProt ID:	P81274
Cytogenetics:	1p13.3
Domains:	TPR, GoLoco
Protein Families:	Druggable Genome
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]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US