

Product datasheet for **MC205426**

Gpsm2 (NM_029522) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpsm2 (NM_029522) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gpsm2
Synonyms:	6230410J09Rik; LGN; Pins
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC021308
 CCACGCGTCCGCTGGCCAGGACACAATAATTTCCCATTTTCTCAGCTTATAATATGACTGGATGGAGGG
 AAATTTGATAAGCATGAGGGAAGACCATTCTTTTCATGTCCGCTACAGAATGGAAGCTTCTTGCCTTGAG
 CTGGCCTTGAAGGAGAAGCTCTATGTAATCAGGGGACTGCCGCGCTGGCGTGTCAATTTTTGAAGCCG
 CAGTTCAAGTTGGAAGTGAAGACCTCAAAACACTCAGTGTATTTACAGCCAAGTGGCAATGCTTACTT
 CTACTTGCATGACTACGCCAAAGCGTTAGAATACCACCACCATGACTTAACTCTTGCACGGACTTTGGA
 GACCAACTTGGGAAGCTAAAGCCAGCGCAATCTCGAAACACCTTAAAGGTGCTTGGGAATTTGATG
 AAGCGATAGTGTGTTGCCAGCGACACCTGGATATCTCCAGAGAGCTTAAAGTACAAGTGGGAGAAGCAAG
 AGCGCTCTACAATCTTGAAATGTCTATCACGCCAAAGGAAAAGCTTTGGTTGCCCGGGTCCGAGGAT
 ACAGGAGAGTTTCCAGAAGAGCTGAGAAATGCCCTACAGGCAGCTGTGGATCTCTATGAGGAAAACCTGT
 CCTTAGTAACTGCTCTAGGTGACCGAGCAGCACAGGGGCGAGCCTTTGGGAACCTTGGAACACACACTA
 CCTCTCGGCAACTTCAGGGATGCAGTTATAGCTCACGAGCAGCGTCTCCTAATTGCAAAGGAGTTCGGA
 GATAAGGCGGCTGAGAGAAGAGCGTACAGCAACCTAGGAAATGCATACATATTCTGGGTGAATTCGAAA
 CTGCTTCCGAATACTACAAGAAGACACTGCTGCTGGCTCGGCAGCTTAAAGACAGAGCCGTGGAAGCTCA
 GTCTTGCTACAGTCTTGGGAATACATACACTTTGCTTCAGGACTACGAGAAGGCCATCGATTACCACCTA
 AAGCACTTAGCAATCGCCCAAGAGCTCAAGGATCGGATGGTGAAGGAAGAGCGTGTGGAGCTTAGGAA
 ACGCATACACAGCTCTGGGAAATCATGACCAAGCAATGCATTTTGTGAAAAGCACTTGGAAATTTCAAG
 AGAGGTTGGGGACAAAAGTGGTGAAGTACTGCTGCGCGGCTGAACCTCTCAGACCTGCAGATGGTCTTGGT
 CTGAGCTACAGCACAAAATAATCCATGATGTCTGAGAATTGAAATGATGGCAGCTTACATGGTGCAG
 GCGCAAGCTGGGACGGAGACAGTATGGAGAAGTGGAACTTGAAGTTAACACCAGAAAAGGTGCC
 GAATTTGGAACAGTGAATTTCTCGCTAAACAGAAACCTCTCATTGCCAAACCATCTGCAAAGCTCTGTTT
 GTCAACAGACTGAAGGGCAAAAAGTACAAAAGCGCAGCGCCTGCACTAAGGTTCTCAAAGACGCCAGCA
 ACTCCGTGGACCACCGCGCCACGCTCCAGAAAGAAAATCAGTTCAGACACGATTGGAGATGAAGGATT
 CTTTGACTTGCTAAGGCGATTTACAGAGCAACAGGATGGATGACCAAGAGGTGCCACTTACAAGGAACTGT
 CGCACAACATCCACAGCAGCTGCTTCTGCTACCCCAAGTTGATGAAAGCACCGTCTGTCTCTGTGGTGT
 CCCCCAACACAGATGAGTTCTTAGATCTTCTGCTAGCTCACAGAGCCCGCTGGATGACCAGAGGGC
 CAGTTTACAGTAAATTTGCCAGGGCTCCGCTGACAAAAGGCAACAGTCCATCTGTACTTGAGCGCCTGATG
 ACAAATGACAAGAAAGAGCCTGATGAAGACTTCTTCGACATCCTTGTAAGTGCCAGGGTCAAGATTAG
 ATGATCAAAGATGTGCTCCTCCATCTGCTGCCACTAAGGGGCGACTGTCCCGGATGAGGACTTCTTTAG
 CCTCATCTTACGCTCTCAAGCTAAAAGAATGGATGAGCAGAGAGTTCTGCTGCAAAGAGATCCAAACAGA
 GACAGTGAAGTTGGACTAAAGGAACTTTTGCAAAAATAACGCTTTGTTGGAATTTAAGCATTCCGGAAAAT
 AACTAGCAAACACAGGATGGTGTGGTAACTACTGAAGAAAAGGACTGGTCCCCCTCAGGACACTGCAGG
 GAGCTCGCCACTGTAGCAGTCAACACATTTTTAGGGTGTGAATGTTGAGTACTGAGGGACTGACATTCTT
 CTGTCTCAGGGCAGAAGCTCCTGTAAGGTGCTCCGTCAGCTTAACTGACCTTGAGATTCTGTGTGCGTGA
 CTAGATTCTTGGCTAGGGTTTGTGTAATAGGGATTTAAATGACTCCTACATTAGAAGTCAAGTCTTTTCT
 TACAGAGGCCATCTTAAAGGAGCTAGTTGACAGGGACTTTTTGTACCTGCCCATGAATATAGCAGATTGC
 ATGTTTTATTGAAAATAATGTAATGTCCTATGTAAGAAAAGATGAAAATAGTCATAAAATCTAGTTTAA
 GAAAACTATATTTCAATATATTTTTAGGCAAAGCCAGTGAAGGAAAATGAGAAAATAAACTGCTTTTAGCAA
 AA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_029522
- Insert Size:** 2019 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).

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: [BC021308](#), [AAH21308](#)

RefSeq Size: 2673 bp

RefSeq ORF: 2019 bp

Locus ID: 76123

UniProt ID: [Q8VDU0](#)

Cytogenetics: 3 F3

Gene Summary: Plays an important role in mitotic spindle pole organization via its interaction with NUMA1 (PubMed:21816348). Required for cortical dynein-dynactin complex recruitment during metaphase (By similarity). Plays a role in metaphase spindle orientation (By similarity). Plays an important role in asymmetric cell divisions (PubMed:12571286, PubMed:21816348). Has guanine nucleotide dissociation inhibitor (GDI) activity towards G(i) alpha proteins, such as GNAI1 and GNAI3, and thereby regulates their activity (PubMed:22952234).[UniProtKB/Swiss-Prot Function]