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Product datasheet for MC205674

Gm2a (NM_010299) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gm2a (NM_010299) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gm2a
Synonyms:	AA408702; AW215435; GM2-AP; SAP-3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC004651
GGCAGCCGTGAGTCGCATTGCCTAGACCGACACGGAGGACCATCGCCATGCACCGTCTACCGCTGCTGCT
CCTGCTGGGCTTGCTGCTCGCAGGCTCCGTCGCCCCTGCGCGCCTCGTCCCGAAGCGCCTTTCCCAACTT
GGTGGCTTCTCCTGGGATAACTGTGATGAAGGAAAGGACCCTGCAGTGATCAAAAGCCTCACGATCCAAC
CTGACCCCATTGTGGTTCCTGGAGATGTAGTCGTCAGCCTTGAGGGCAAGACCAGCGTTCCCCTCACTGC
TCCTCAGAAGGTGGAGCTCACCGTGGAGAAGGAAGTGGCTGGCTTCTGGGTCAAGATTCCTTGTGTAGAA
CAGCTAGGCAGCTGTAGCTACGAGAACATCTGTGACCTGATAGACGAATACATTCCTCCTGGAGAGAGCT
GCCCAGAGCCCCTGCACACCTACGGGCTGCCCTGCCACTGTCCCTTCAAGGAAGGTACCTACTCACTACC
CACGAGCAACTTCACAGTGCCTGACCTAGAGCTACCGAGCTGGCTGAGCACAGGCAACTACCGCATCCAG
AGTATCTTGAGCAGTGGTGGGAAGCGCCTGGGCTGCATCAAGATTGCTGCCTCTCTCAAGGGCAGATAAC
CTGGCAGCAGCCACCACAGAATGAAGGGGCACCAGCACGGCAGGCCTCTTCTTCTGTGTTCCGGTGCCCA
GGCCTGCCTGCCTCTAACTCTATCCTCCTACGGTTCTCTACCCTCTCTGGAAATCATTGCAACCTGACCT
GAGGGAGGATGGACCAGGCCCAACATCTGATGGGCTGTAAGCCATGCTCCTTTGCACCCCTACCAACTTT
CTAAGAATTTCTTTCGTATCCAAAACAGTCAAGGAATGGGAACCAACATGTTTGGGAATCCTAAGGTCAA
AACTGGCCCAACCTGGACCTCCTGGAGTTATGCTCACCCCACTTCTTTGTTTTAGTCACCAACTTTAAAA
CCAGGATAACCGTATTAATTTCTCATTCCATCCTGAGCCTCTCTTCCTGCAAAGAGGTCTAGGTAGTCAG
TCTTGGGTCCCTCTATTAACTTCTGTGATTAACTGCATTCTCTTTGCAACTTAACTTGTCAACACTGGGG
CTGACAGATCCTGAAGAGGCAGGGTGGTGTGTGACAGAAACCTGTGAGAGTTATTGTTGGGCATGCTCCA
GTAACCCTTGGCAAAGCACAGGTACCTGTAGGGCCAAGCCGAAGACCTAGGGAGGCACAGCAATCACTTC
TGGGAGCGATGCCCATTTTTCCTTTTTCCTTTTTTTTTTTTTTTTTTTTGGTATGATGCCTTCAAGAAT
GGGATGGCATTCCTTATACCTGACAAGAAACAACCAAAAAAACCAATAGCACATGTGCTCTGGTGCCAGG
TGGCCAGGGTCTGGAATGGCATATCTAGTTCTAAAGAGGTGCAGTCCCCTGCAAGTTCCATGTAAGGAAT
GTTGCCAGATATTTGCAACATTTTTCTTCCTTAGGCCCCAAACCCAGCCGTTTATATGAAATTGTAGAAT
TTTTAACTATTGGAAACAAATGGTTTTTTTATATATACTTACTATGCAGGCCAAAGGGGCCCCACGGACT
CACCCAGGGACATAATCTGGCTCCCAGGTGGCTGCTTTTCCTCACATCTGTTCATCTTCTCAATCTCAAG
TTATCTGGCCGCATCTCTTCCCCCTTCAAGGTCAAGTCCTTGGTGCCTGGCCTCAAAGAGGGCTCAGCCT
GCACTAGAGCAGGTCTACATGGCTTCTGAGAGCTGGGCACTGTGCCAACTTCCGAGCCATCACCACCAGA
GTAGAGGGGTTCACACTGGAGTAGATCCCACCTAGCAGCCACCACGTGGAACAGGGGTCCTGTGAAGAGA
GTGGGTCCCACATCAGGTTGCACCATGACAACTTCCTGAGCCTCCTCGGACAGCCCAGGTTCTGGACTAG
AAGACTGGTCTGGCAATAAATCTTTTTAACTTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_010299

Insert Size: 582 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:	BC004651, AAH04651
RefSeq Size:	2024 bp
RefSeq ORF:	582 bp
Locus ID:	14667
UniProt ID:	Q60648
Cytogenetics:	11 32.13 cM
Gene Summary:	Binds gangliosides and stimulates ganglioside GM2 degradation. It stimulates only the breakdown of ganglioside GM2 and glycolipid GA2 by beta-hexosaminidase A. It extracts single GM2 molecules from membranes and presents them in soluble form to beta-hexosaminidase A for cleavage of N-acetyl-D-galactosamine and conversion to GM3. The large binding pocket can accommodate several single chain phospholipids and fatty acids, GM2A also exhibits some calcium-independent phospholipase activity.[UniProtKB/Swiss-Prot Function]