

Product datasheet for **MC219276**

Mag (NM_010758) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mag (NM_010758) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mag
Synonyms:	Gm; Gma; sigle; siglec-4a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219276 representing NM_010758
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATATTCTCGCCACCCTGCCGTGTTTTGGATAATGATTTTCAGCTTCTCGAGGGGGCCACTGGGGTG
 CCTGGATGCCCTCGACCATCTCAGCCTTCGAGGGCACGTGTCTCCATTCCCTGCCGTTTCGACTTCCC
 CGATGAGCTCAGACCGGCTGTGGTACATGGCGTCTGGTATTTCAATAGTCCCTACCCCAAGAACTACCCA
 CCGGTGGTCTTCAAGTCCCGCACACAAGTGGTCCATGAGAGTTTCCAGGGCCGACGCCGCTATTGGGAG
 ACCTGGGCTACGAACTGTACCCTGCTTCTCAGCACACTGAGCCCCGAGCTGGGAGGCAATACTATTT
 CCGAGGCGACCTGGTGGCTACAACCAGTACACCTTCTCGGAGCACAGCGTCTGGACATCGTCAACACC
 CCCAACATTGTGGTTCCCCCGAAGTGGTGGCAGGAACGGAAGTGGAGGTCAGTTGTATGGTGCCGGACA
 ACTGCCAGAGCTGCGGCCAGAGCTGAGCTGGTGGGCCACGAGGGGCTGGGAGAGCCACTGTGCTGGG
 TCGGCTGCGTGAGGATGAAGGCACCTGGGTGCAGGTGTCGCTGCTACACTTCGTGCTACTAGAGAGGCC
 AACGGCCACCGTCTGGGCTGTCAGGCTGCCTTCCCAACACCACCTTGCAGTTCCGAGGGTACGCCAGTT
 TGGACGTCAGTACCCCCAGTGATTGTGGAGATGAATTCCTCTGTGGAGGCCATTGAGGGCTCCCATGT
 CAGCCTGCTCTGTGGGCTGACAGCAACCCGCCCGCTGCTGACTTGGATGCGGGATGGGATGGTGTG
 AGGGAGGCAGTTGCCAAGAGCCTGTACCTGGATCTGGAGGAGGTGACCCAGGAGAGGACGGCGTCTATG
 CTTGCCTAGCAGAGAACGCCTATGGCCAGGACAACCGCACGGTGGAGTGAGTGTATGCACCTTG
 GAAGCCCCACAGTGAATGGGACGGTGGTGGCCGTAGAGGGGAGACTGTCTCTATCCTGTGTTCCACACAG
 AGCAACCCGGACCCCATCCTTACCATCTTCAAGGAGAAGCAGATCCTAGCCACGGTCATCTATGAGAGTC
 AGCTGCAGCTGGAACCTCCCTGCAGTGACCCCGAGGATGATGGGAATACTGGTGTGGCTGAGAACCA
 GTATGGCCAGAGAGCCACTGCCTTCAACCTGTCTGTGGAGTTTGCCCCATAATCCTTCTGGAGTCACAC
 TGTGCAGCGGCCAGAGACACCGTGCAGTGTCTATGTGTGGTAAAAATCCAACCCGGAACCCCTGTGGCCT
 TTGAGCTGCCTTCCCGAACGTGACTGTGAATGAGACGGAGAGGGAGTTTGTGACTCCGAGCGCAGTGG
 CCTCCTGCTCACCAGCATCCTCACGATCCGGGGTCAAGCCCAAGCCCCACCCCGCTCATTTGTACTCC
 AGGAACCTCTATGGCACCCAGAGCCTCGAGCTGCCTTCCAGGGAGCACACCGACTGATGTGGGCCAAAA
 TCGGCTCTGTGGGTGCTGTGGTGCCTTTGCCATCCTGATTGCCATTGTGTGCTACATCACCCAGACGAG
 AAGAAAAAAGAAATGTACGGAGAGCTCCAGCTTCTCAGGGGGAGACAACCCTCATGTCTGTACAGCCCC
 GAATTCAGAATCTCTGGGCACCTGATAAGTATGAGTCCAGAGAGGTCTCTACCCGGGATTGTCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_010758
- Insert Size:** 1749 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: [NM_010758.2](#), [NP_034888.1](#)

RefSeq Size: 2427 bp

RefSeq ORF: 1749 bp

Locus ID: 17136

UniProt ID: [P20917](#)

Cytogenetics: 7 19.26 cM

Gene Summary: This gene encodes a type I membrane protein and member of the immunoglobulin-like superfamily. It is expressed in myelinating glial cells, including oligodendrocytes of the central nervous system and Schwann cells of the peripheral nervous system. Mice lacking the encoded protein express abundant myelin, but suffer long-term axon degeneration, altered distribution of channels and adhesion molecules at nodes of Ranvier, and altered axon cytoskeletal structure. While not required for myelination, the encoded protein enhances axon-myelin stability, helps to structure nodes of Ranvier, and regulates the axon cytoskeleton. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]

Transcript Variant: This variant (6) uses an alternate exon in the 3' coding region resulting in novel 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (3) has a shorter and distinct C-terminus, compared to isoform 1. Variants 4, 5, 6, and 7 encode the same isoform (3).