

Product datasheet for **RG234527**

MAG (NM_001199216) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAG (NM_001199216) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAG
Synonyms:	GMA; S-MAG; SIGLEC-4A; SIGLEC4A; SPG75
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234527 representing NM_001199216
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCTCGTCCATCTCGGCCTTGAAGGCACGTGCGTCTCCATCCCCTGCCGCTTTGACTTCCCGGATG
 AGCTGCGGCCCGCTGTGGTGCATGGTGTCTGGTACTTCAATAGCCCTACCCCAAGAACTACCCCGGT
 GGTCTTCAAGTCGCGCACCCAAGTAGTCCACGAGAGCTTCCAGGGCCGACGCCCTCCTGGGGACCTG
 GGCTTGCAGAACTGCACCCTCTGCTCAGCAACGTGAGCCCGAGCTGGGCGGAAGTACTACTTCCGTG
 GGGACCTGGGCGGCTACAACAGTACACCTTCTCAGAGCACAGCGTCTGGATATCGTCAACACCCCAA
 CATCGTGGTCCCCAGAGGTGGTGGCAGGCACGGAGGTGGAGGTGAGTGCATGGTCCCGGACAACCTGC
 CCAGAGCTGCGCCCTGAGCTGAGCTGGTGGGCCACGAGGGGTGGGGAGCCCGCTGTGCTGGGCCGGC
 TCGGGGAGGACGAGGGCACCTGGTGCAGGTGTCCTGCTGCACTTCGTGCCACGAGGGAGGCCAACGG
 CCACAGGTGGGCTGCCAGGCCCTTCCCAACACCACCTGCAGTTCGAGGGTACGCCAGCATGGAC
 GTCAAGTACCCCGGTGATTGTGGAGATGAACTCCTCGGTGGAGGCCATCGAGGGCTCCACGTGAGCC
 TGCTCTGTGGGGCTGACAGCAACCCCGCCGCTGCTGACCTGGATGCGGGACGGGACAGTCTCCGGGA
 GGCGGTGGCCGAGAGCTGCTCCTGGAGCTGGAGGAGGTACCCCGCCGAAGACGGCGTCTATGCCTGC
 CTGGCCGAGAATGCCTATGGCCAGGACAACCGCACCGTGGGGCTCAGTGTATGTATGCACCCTGGAAGC
 CAACAGTGAACGGGACAATGGTGGCCGTAGAGGGGAGACGGTCTCTATCTTGTGCTCCACACAGAGCAA
 CCCGGACCCTATTCTCACCATCTCAAGGAGAAGCAGATCCTGTCCACGGTCATCTACGAGAGCGAGCTG
 CAGCTGGAGCTGCCGGCCGTGTACCCGAGGATGATGGAGAGTACTGGTGTGGCTGAGAACCAGTATG
 GCCAGAGGGCCACCGCCTTCAACCTGTCTGTGGAGTTCCGCCCTGTGCTCCTCCTGGAGTCCCACTGC
 GGACGCCGAGACACGGTGCAGTGCCTGTGCGTGGTGAAGTCCAACCCGAGCCGTCCGTGGCCTTTGAG
 CTGCCATCGCGCAATGTGACCGTGAACGAGAGCGAGCGGGAGTTCGTGTACTCGGAGCGAGCGCCCTCG
 TGCTCACCAGCATCCTCACGCTGCGGGGACAGGCCCGCCCGCCGCGTCTATGCACCAGGAGAA
 CCTCTATGGCGCAAGAGCCTGGAGCTGCCCTTCCAGGGAGCCATCGACTGATGTGGGCAAGATCGGG
 CCTGTGGGCGCCGTGGTGCCTTTGCCATCCTGATTGCCATCGTCTGCTACATTACCCAGACACGCAGGA
 AAAAGAACGTGACAGAGAGCCCCAGCTTCTCGGCAGGGGACAACCCTCCCGTCTGTTGAGCAGCGACTT
 CCGCATCTCTGGGCACCCAGAGAAGTACGAGAGCGAGAGCGCCTGGGATCTGAGAGGAGGCTGCTGGGC
 CTTCCGGGTGAGCCCCAGAGCTGGACCTGAGCTATTCTACTCGGACCTGGGAAACGGCCCAAGG
 ACAGCTACACGCTGACGGAGGAGTAGCTGAGTATGCTGAAATCCGGGTCAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234527 representing NM_001199216
 Red=Cloning site Green=Tags(s)

MPSSISAFEGTCVSIPCRFDFPDELRPVAVHGVVYFNSPYPKNYPPVFKSRTQVVHESFQGRSRLGLDL
 GLRNCTLLL SNV SPELGGKYYFRGDLGGYNQYTFSEHSVLDIVNTPNIVVPEVVAGTEVSCMVPDNC
 PELRPELSWLGHGELGEPAVLGRLEDEGTWVQVSLHFVPTREANGHRLGCQASFPNTTLQFEGYASMD
 VKYPPVIVEMNSSVEAIEGSHVSLLCGADSNPPPLL TWMRDGTVLREAVAESLLEEEVTPAEDGVYAC
 LAENAYQDNRTVGLSVMYAPWKPTVNGTMVAVEGETVSILCSTQSNPDPILTIFKEKQILSTVIYESEL
 QLELPAVSPEDDGEYWCVAENQYQQRATAFNLSVEFAPVLLLESHCAAARDTVQCLCVVKSNPPEPSVAFE
 LPSRNVTVNESEREFVYSERSGLVLTSLILTRGQAQAPPRVICTARNLYGAKSLELFPQGAHRLMWAKIG
 PVGAVVAFAILIAIVCYITQTRRKNVTEPSFSAGDNPVFLSSDFRISGAPEKYESERRLLGSERRLLG
 LRGEPELDLSYSHSDLGKRPTKDSYTLTEELAEYAEIRVK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001199216

ORF Size: 1803 bp

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: [NM_001199216.1](#), [NP_001186145.1](#)

RefSeq Size: 2445 bp

RefSeq ORF: 1806 bp

Locus ID: 4099

UniProt ID: [P20916](#)

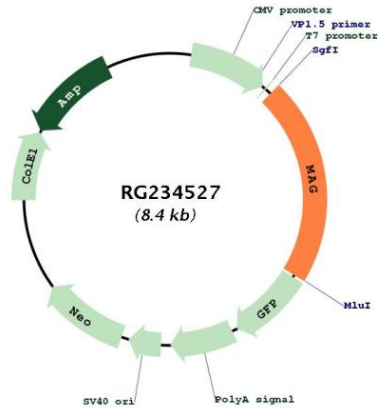
Cytogenetics: 19q13.12

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs)

Gene Summary: The protein encoded by this gene is a type I membrane protein and member of the immunoglobulin superfamily. It is thought to be involved in the process of myelination. It is a lectin that binds to sialylated glycoconjugates and mediates certain myelin-neuron cell-cell interactions. Three alternatively spliced transcripts encoding different isoforms have been described for this gene. [provided by RefSeq, Nov 2010]

Product images:



Circular map for RG234527