

## Product datasheet for **RC234527**

### **MAG (NM\_001199216) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MAG (NM_001199216) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAG
Synonyms:	GMA; S-MAG; SIGLEC-4A; SIGLEC4A; SPG75
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234527 representing NM\_001199216  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCCTCGTCCATCTCGGCCTTGAAGGCACGTGCGTCTCCATCCCCTGCCGTTTGACTTCCCGGATG  
 AGCTGCGGCCCGCTGTGGTGCATGGTGTCTGGTACTTCAATAGCCCTACCCCAAGAACTACCCCGGT  
 GGTCTTCAAGTCGCGCACCCAAGTAGTCCACGAGAGCTTCCAGGGCCGACGCCCTCCTGGGGACCTG  
 GGCTTGCAGAACTGCACCCTCTGCTCAGCAACGTGAGCCCGAGCTGGGCGGAAGTACTACTTCCGTG  
 GGGACCTGGGCGGCTACAACAGTACACCTTCTCAGAGCACAGCGTCTGGATATCGTCAACACCCCAA  
 CATCGTGGTGCCCGAGAGGTGGTGGCAGGCACGGAGGTGGAGGTGAGTGCATGGTGCCGGACAACG  
 CCAGAGCTGCGCCCTGAGCTGAGCTGGTGGGCCACGAGGGGTGGGGAGCCCGCTGTGCTGGGCCGG  
 TGCGGGAGGACGAGGGCACCTGGGTGCAGGTGCTACTGCTGACTTCGTGCCACGAGGGAGGCCAACGG  
 CCACAGGTGGGCTGCCAGGCCTCTTCCCAACACCACCTGCAGTTCGAGGGTACGCCAGCATGGAC  
 GTCAAGTACCCCGGTGATTGTGGAGATGAACTCCTCGGTGGAGGCCATCGAGGGCTCCCACGTGAGCC  
 TGCTCTGTGGGGCTGACAGCAACCCCGCCGCTGCTGACCTGGATGCGGGACGGGACAGTCTCCGGGA  
 GGCGGTGGCCGAGAGCCTGCTCCTGGAGCTGGAGGAGGTGACCCCGCCGAAGACGGCGTCTATGCCTG  
 CTGGCCGAGAATGCCTATGGCCAGGACAACCGCACCGTGGGGCTCAGTGTATGTATGCACCCTGGAAG  
 CAACAGTGAACGGGACAATGGTGGCCGTAGAGGGGAGACGGTCTCTATCTTGTGCTCCACACAGAGCA  
 CCCGGACCCTATTCTCACCATCTTCAAGGAGAAGCAGATCCTGTCCACGGTATCTACGAGAGCGAGCTG  
 CAGCTGGAGCTGCCGGCCGTGTCACCCGAGGATGATGGAGAGTACTGGTGTGGTGGTGGTGGTGGT  
 GCCAGAGGGCCACCGCTTCAACCTGTCTGTGGAGTTCGCCCTGTGCTCCTCCTGGAGTCCCACGCTG  
 GCGAGCCCGAGACACGGTGCAGTGCCTGTGCGTGGTGAAGTCCAACCCGAGCCGCTCCGTGGCCTTTGAG  
 CTGCCATCGCGCAATGTGACCGTGAACGAGAGCGAGCGGGAGTTCGTGTACTCGGAGCGCAGCGCCTCG  
 TGCTCACCAGCATCCTCACGCTGCGGGGACAGGCCAGGCCCGCCCGCGTCTGCTGACCGCGAGGAA  
 CCTCTATGGCGCAAGAGCCTGGAGTGCCTTCCAGGGAGCCATCGACTGATGTGGGCAAGATCGGG  
 CCTGTGGGCGCCGTGGTGCCTTTGCCATCCTGATTGCCATCGTCTGCTACATTACCAGACACGCAGGA  
 AAAAGAACGTGACAGAGAGCCCCAGCTTCTCGGCAGGGGACAACCCTCCCGTCTGTTGAGCAGCGACTT  
 CCGCATCTCTGGGACACCAGAGAAGTACGAGAGCGAGAGCGCCTGGGATCTGAGAGGAGGCTGCTGGG  
 CTTCCGGGTGAGCCCCAGAGCTGGACCTGAGCTATTCTACTCGGACCTGGGAAACGGCCCAAGG  
 ACAGCTACACGCTGACGGAGGAGTAGCTGAGTATGCTGAAATCCGGGTCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234527 representing NM\_001199216  
 Red=Cloning site Green=Tags(s)

MPSSISAFEGTCVSIPCRFDPELRPAVHVGVYFNSPYPKNYPPVFKSRTQVVHESFQGRSRLLDL  
 GLRNLTLNLSNVSPELGGKYYFRGDLGGYNQYTFSEHSVLDIVNTPNIVVPEVAVAGTEVSCMVPDNC  
 PELRPELSWLGHGELGEPAVLGRLEDEGTWVQVSLHFVPTREANGHRLGCQASFPNTTLQFEGYASMD  
 VKYPPVIVEMNSSVEAIEGSHVSLLCGADSNPPPLL TWMRDGTVLREAVAESLLEEEVTPAEDGVYAC  
 LAENAYQDNRTVGLSVMYAPWKPTVNGTMVAVEGETVSILCSTQSNPDPILTIFKEKQILSTVIYESEL  
 QLELPAVSPEDDGEYWCVAENQYQQRATAFNLSVEFAPVLLLESHCAAARDTVQCLCVVKSNPEPSVAFE  
 LPSRNVTVNESEREFVYSERSGLVLTSLTLRQQAQAPPRVICTARNLYGAKSLELFPQGAHRLMWAKIG  
 PVGAVVAFAILIAIVCYITQTRRKNVTESPSFSAGDNPVLFSSDFRISGAPEKYESERRLGSERRLLG  
 LRGEPELDLSYSHSDLGKRPTKDSYTLTEELAEYAEIRVK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**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

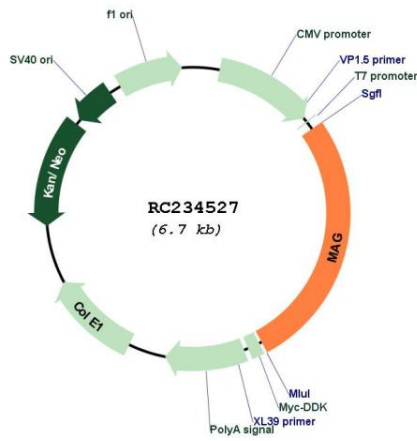
**RefSeq ORF:** 1806 bp

**Locus ID:** 4099

**UniProt ID:** [P20916](#)

<b>Cytogenetics:</b>	19q13.12
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs)
<b>MW:</b>	66.7 kDa
<b>Gene Summary:</b>	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 RC234527