

Product datasheet for **RC215996**

MAG (NM_080600) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAG (NM_080600) 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:

>RC215996 representing NM_080600
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATATTCTCACGGCACTGCCTCTGTTCTGGATTATGATTTACGCCTCCCAGGGGGTCACTGGGGT
 CCTGGATGCCCTCGTCCATCTCGGCCTCGAAGGCACGTGCGTCTCCATCCCCTGCCGCTTTGACTTCCC
 GGATGAGCTGCGGCCCGCTGTGGTGCATGGTGTCTGGTACTTCAATAGCCCTACCCCAAGAACTACCCC
 CCGGTGGTCTTCAAGTCGCGCACCAAGTAGTCCACGAGAGCTTCCAGGGCCGACGCCGCTCTGGGGG
 ACCTGGGCTGCGAAACTGCACCCTCTGCTCAGCAACGTGAGCCCGAGCTGGGCGGAACTACTACTT
 CCGTGGGACCTGGGCGGCTACAACCAGTACACCTTCTCAGAGCACAGCGTCTGGATATCGTCAACACC
 CCCAACATCGTGGTGCCTCCAGAGGTGGTGGCAGGCAGGAGGTGGAGGTGAGTGCATGGTCCGGACA
 ACTGCCAGAGCTGCGCCCTGAGCTGAGCTGGTGGGCCAGAGGGGCTGGGGAGCCGCTGTGCTGGG
 CCGGCTGCGGGAGGACGAGGGCACCTGGGTGCAGGTGCTACTGCTGCACCTCGTCCACGAGGGAGGCC
 AACGGCCACAGGCTGGGCTGCCAGGCCTCTTCCCAACACCACCTGCAGTTCCGAGGGCTACGCCAGCA
 TGGACGTCAGTACCCCCGGTATTGTGGAGATGAACTCCTCGGTGGAGCCATCGAGGGCTCCCACGT
 GAGCCTGCTCTGTGGGCTGACAGCAACCCCCGCGCTGCTGACCTGGATGCGGGACGGGACAGTCCCTC
 CGGGAGGCGGTGGCCGAGAGCCTGCTCCTGGAGCTGGAGGAGGTGACCCCGCCGAAGACGGCGTCTATG
 CCTGCCTGGCCGAGAATGCCTATGGCCAGGACAACCGCACCGTGGGGCTCAGTGTATGTATGCACCCTG
 GAAGCCAAACAGTGAACGGGACAATGGTGGCCGTAGAGGGGAGACGGTCTCTATCTTGTCTCCACACAG
 AGCAACCCGGACCCTATTCTCACCATCTCAAGGAGAAGCAGATCCTGTCCACGGTCACTACGAGAGCG
 AGCTGCAGCTGGAGCTGCCGGCCGTGCACCCGAGGATGATGGAGAGTACTGGTGTGGTGAGAACCA
 GTATGGCCAGAGGGCCACCGCCTTCAACCTGTCTGTGGAGTTCGCCCCTGTGCTCCTCTGGAGTCCCAC
 TGC GCGGAGCCGAGACACGGTGCAGTGCCTGTGCGTGGTGAAGTCCAACCCGAGCCGCTCCGTGGCCT
 TTGAGCTGCCATCGCGCAATGTGACCGTGAACGAGAGCGAGCGGGAGTTCGTGTACTCGGAGCGCAGCGG
 CCTCGTCTCACCAGCATCCTCACGCTGCGGGGCGAGGCCAGGCCCGCCCGCGTCTATGACCCGCG
 AGGAACCTCTATGGCGCAAGAGCCTGGAGCTGCCCTTCCAGGGAGCCATCGACTGATGTGGGCAAGA
 TCGGGCCTGTGGGCGCCGTGGTGCCTTTGCCATCCTGATTGCCATCGTCTGCTACATTACCAGACAG
 CAGGAAAAAGAACGTGACAGAGAGCCCCAGCTTCTCGGCAGGGGACAACCCTCCCGTCTGTTCCAGCAG
 GACTTCCGCATCTCTGGGCACAGAGAAGTACGAGTCCAAGAGGTTTCTACCTGGAATCTCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215996 representing NM_080600
 Red=Cloning site Green=Tags(s)

MIFLTALPLFWIMISASRGGHWGAWMPSSISAFEGTCVSIPCRFDLPAVHVGVYFNSPYKKNYP
 PVVFKSRTQVVHESFQGRSRLLDGLLRNCTLLLSNVSPELGGKYYFRGDLGGYNQYTFSEHSVLDIVNT
 PNIIVPPEVVAGTEVEVSCMVPDNCPELRPELSWLGHGELGEPAVLGRLEDEGTWVQVSLHFVPTREA
 NGHRLGCQASFPNTTLQFEGYASMDVKYPPVIVEMNSSVEAIEGSHVSLLCGADSNPPPLLTWMRDGTVL
 REAVAESLLEEEVTPAEDGVYACLAENAYQDNRTVGLSVMYAPWKPTVNGTMVAVEGETVSILCSTQ
 SNPDPILTIFKEKQILSTVIYESELQLELPAVSPEDDGEYWCVAENQYQQRATFNLVVEFAPVLLLESH
 CAAARDTVQCLCVVKSNPESVAFELPSRNVTVNESEREFVYSERSGLVLTSLTLRGQAQAPPRVICTA
 RNLYGAKSLELFPQGAHRLMWAKIGPVGAVVAFAILIAIVCYITQTRRKNVTESPFSAGDNPPVLFSS
 DFRISGAPEKYESKEVSTLSEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_080600

ORF Size: 1746 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

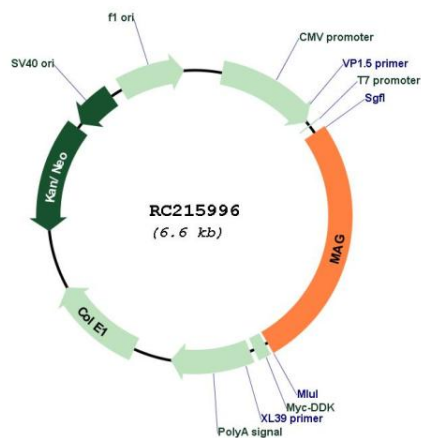
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_080600.2, NP_542167.1
RefSeq Size:	2503 bp
RefSeq ORF:	1749 bp
Locus ID:	4099
UniProt ID:	P20916
Cytogenetics:	19q13.12
Domains:	ig, IGc2, IG
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
MW:	64 kDa
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 RC215996