

Product datasheet for **SC124271**

MAG (NM_080600) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAG (NM_080600) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAG
Synonyms:	GMA; S-MAG; SIGLEC-4A; SIGLEC4A; SPG75
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_080600, the custom clone sequence may differ by one or more nucleotides

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ATGATATTCTCACGGCACTGCCTCTGTTCTGGATTATGATTTACAGCTCCCAGGGGGTCACTGGGGT
CCTGGATGCCCTCGTCCATCTCGGCCTTCAAGGCACGTGCGTCTCCATCCCCTGCCGCTTTGACTTCCC
GGATGAGCTGCGGCCCGCTGTGGTGCATGGTGTCTGGTACTTCAATAGCCCCTACCCAAGAAGTACCCC
CCGGTGGTCTTCAAGTCGCGCACCAAGTAGTCCACGAGAGCTTCCAGGGCCGACGCCGCTCCTGGGGG
ACCTGGGCCTGCGAAACTGCACCCTCTGCTCAGCAACGTGAGCCCGAGCTGGGCGGGAAGTACTACTT
CCGTGGGGACCTGGGCGGCTACAACAGTACACCTTCTCAGAGCACAGCGTCTGGATATCGTCAACACC
CCCAACATCGTGGTGCCCCAGAGGTGGTGGCAGGCACGGAGGTGGAGGTGAGTGCATGGTGCCGGACA
ACTGCCACAGAGCTGCGCCCTGAGCTGAGCTGGTGGGCCACGAGGGGCTGGGGGAGCCGCTGTGCTGGG
CCGGCTGCGGGAGGACGAGGGCACCTGGGTGCAGGTGTCAGTCTGCTGCACTTCGTGCCACGAGGGAGGCC
AACGGCCACAGGCTGGGCTGCCAGGCTCCTTCCCAACACCACCCTGCAGTTCGAGGGCTACGCCAGCA
TGGACGTCAAGTACCCCGGTGATTGTGGAGATGAACTCCTCGTGGAGGCCATCGAGGGCTCCCAGT
GAGCCTGCTCTGTGGGGCTGACAGCAACCCCCCGGCTGCTGACCTGGATGCGGGACGGGACAGTCCCTC
CGGGAGGCGGTGGCCGAGAGCTGCTCCTGGAGCTGGAGGAGGTGACCCCGCCGAGAGCGGCTATG
CCTGCCTGGCCGAGAATGCCTATGGCCAGGACAACCGCACCGTGGGGCTCAGTGTATGTATGCACCCTG
GAAGCCAAACAGTGAACGGGACAATGGTGGCCGTAGAGGGGGAGACGGTCTCTATCTTGTGCTCCACACAG
AGCAACCCCGACCTATTCTCACCATCTTCAAGGAGAAGCAGATCCTGTCCACGGTATCTACGAGAGCG
AGCTGCAGCTGGAGCTGCCGGCCGTGTACCCGAGGATGATGGAGAGTACTGGTGTGTGGCTGAGAACCA
GTATGGCCAGAGGGCCACCGCTTCAACCTGTCTGTGGAGTTCGCCCCTGTGCTCCTCCTGGAGTCCCAC
TGCCGCGCAGCCCGAGACACGGTGCAGTGCCTGTGCGTGGTGAAGTCAACCCGGAGCCGCTCCGTTGGCCT
TTGAGCTGCCATCGCGCAATGTGACCGTGAACGAGAGCGAGCGGGAGTTGTTGACTCGGAGCGCAGCGG
CCTCGTGTCTACCAAGCATCTCACGCTGCGGGGGCAGGCCAGGCCCGCCCGCCGCTCATCTGCACCGCG
AGGAACCTCTATGGCGCAAGAGCCTGGAGCTGCCCTTCCAGGGAGCCATCGACTGATGTGGGCAAGA
TCGGGCCCTGTGGGCGCCGTGGTGCCTTTGCCATCCTGATTGCCATCGTCTGCTACATTACCAGACAGC
CAGGAAAAGAACGTGACAGAGAGCCCCAGCTTCTCGGCAGGGGACAACCCTCCCGTCTGTTACAGCAGC
GACTTCCGCATCTCTGGGGCACCAGAGAAGTACGAGTCCAAGAGGTTTCTACCTGGAATCTCACTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_080600 unedited

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CAAATTTGGTATACGACTCACTATAGGGCGGCCCGCAATTCGCACGGGGNAGCAGAG
GTGCAGAAGCAACTGAGTCCAAGTTGTCTGGCGGCTTCAGGTGGACCCAGAAGACGTCCC
CAACTCAGGGAGATTACGCGATCACTCACTCGTGTACAGAATGATATTCCTCACGGCAC
TGCTCTGTTCTGGATTATGATTTACAGCTCCCAGGGGGTCACTGGGGTGCCTGGATGC
CCTCGTCCATCTCGGCCCTTCAAGGCACGTGCGTCTCCATCCCCTGCCGCTTTGACTTCC
CGGATGAGCTGCGGCCCGCTGTGGTGCATGGTGTCTGGTACTTCAATAGCCCCTACCCCA
AGAACTACCCCGGTGGTCTTCAAGTCGCGCACCAAGTAGTCCACGAGAGCTTCCAGG
GCCGACGCCGCTCCTGGGGACCTGGGCTGCGAAACTGCACCCTCTGCTCAGCAACG
TCAGCCCCGAGCTGGGCGGGAAGTACTACTTCCGTGGGGACCTGGGCGGCTACAACCAAGT
ACACCTTCTCAGAGCACAGCGTCTGGATATCGTCAACACCCAAATCCAGGGGGGTGCC
CCCAGAGGTGGTGGCAGCACGGAGGTGGGAAGTCACTGATGGTGGCCGACAATGCC
AGAGCTGCGCCCTGAGCTGAGCTGGGCTGGCCACGAGGGGGCTGGGGGAGCCCCGCTGT
TGCTNNGGCCCGCTGTCNGGAGGGACNAGGGCACCTGGTGGCCCAAGGTGTCACTGCTGC
ACTTCGTGCCCGNAGGGGAGGCCAACGNCACAGGCTTGGGCTGCCAGGCTCCTTTCC
ACACCCCTGGANTNNNGAGGGCTCGCGCTAGGGACGTGAGACCCCGGGGGATGGGG
GAAATGACTCCTGGGGGAGCCCCCAAGGCTCCCGTGAAGTGTCTGGGGGGGTGAAG
CACCCCGCCTGTGACTGATGTGGAAGGGCATCTCCGGGGGGGGGGGG
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_080600 unedited</p> <pre>GGGCCATTTATTTTCATGTCCCTTTTGTACAGCCCCAGNGCCAGTGTGGGGCAGGAGACC AGGCAGGAAGTAGCAATAAATAACACGGACAGACAGAGCTCCCCTCCAGACAGATGAGGG TAAAGGAGGTTAGAGAGGAGCCGTAATGAGGGCGTGGGGGTGCTGGCAGGGAGGGGCAGC TGGGAAGGAGGGGGAGGTCAGGCCCCAGGACCTACTGTCACCTGCCTCACTCCCCTCC TGCCCCAGCCCCGATACTTTTGGGAGGAAGGGAGCCCACAGCCAGTGGGGCCAGCGAG GGTCCTGAGGGGGGTTCANCCACGCAGGCTGCCCCAGTCCTTCACTTGACCCGATTT CAGCATACTCAGTAGCTCCTCCGTACGCGTGTAGCTGTCTTGGTGGGCCGTTTCCCA GGTCCGAGTGAGAATAGCTCAAGTCCAGCTCTGGGGCTCACCCGAAGGCCAGCAGCC TCCTCTCAGATCCCAGGCGCCTCTCGCTCTCGTACTTCTCTGGTCCCCAGAGATGCGGA AGTCGCTGCTGAACAGGACGGGAGGGTTGTCCCCTGCCGAGAAGCTGGGGCTCTCTGTCA CGTTCTTTTTCTGCGTGTCTGGTAATGTAGCAGACGATGGCAATCAGGATGGCAAAGG CGACCACGGCGCCACAGGCCGATCTTGGCCACATCAGTCGATGGGCTCCCTGGAGGG CAGCTCCCAGCTTTGCGCCATAGAGGTTCTCGCGGTGCAAATGACGCGGGCGGGGGC CTGGGCCTGCCCCGCAACGTGAGGATGCTGGTGAGCACCAAGCCGCTGCGCTCCAATA CACGAACTCCCGCTCGCTTTCGTACGCTCACATTGCGCGATGGCAGCTTAAAAGCCAC GGACGGCTCCCGTTGGACTTTACCACCCACAGCACTGGACCGGGTTTTGGGCTGTCCCG CAGTGGACTTCAGAAGAACCAAAGGA</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_080600
Insert Size:	2500 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_080600.1 , 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)
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) is a full-length transcript with the stop codon contained in exon 11. It encodes an isoform (b) that is 44 aa shorter and contains a different carboxy terminus when compared to isoform a.</p>