

Product datasheet for **RC205319**

Oligodendrocyte myelin glycoprotein (OMG) (NM_002544) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oligodendrocyte myelin glycoprotein (OMG) (NM_002544) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oligodendrocyte myelin glycoprotein
Synonyms:	OMGP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205319 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAATATCAGATATTGAAAATGTCTCTCTGCTGTTTCATCCTTCTGTTTCTCACACCTGGTATTTTAT
 GCATTTGTCTCTCCAATGTATATGCACAGAGAGGCACAGGCATGTGGACTGTTCAGGCAGAACTTGTC
 TACATTACCATCTGGACTGCAAGAGAATATTATACATTTAAACCTGTCTTATAACCACTTTACTGATCTG
 CATAACCAGTTAACCCAATATACCAATCTGAGGACCCTGGACATTTCAAACAACAGGCTTGAAAGCCTGC
 CTGCTCACTTACCTCGGTCTCTGTGGAACATGTCTGCTGCTAACAAACATTAACTTCTTGACAAATC
 TGATACTGCTTATCAGTGAATCTTAAATATCTGGATGTTTCTAAGAACATGCTGGAAAAGGTTGCTCCTC
 ATTAATAATACACTAAGAAGTCTCGAGGTTCTCAACCTCAGTAGTAACTTTGGACAGTTCCAACCA
 ACATGCCCTCAAACCTACATATCGTGGACCTGTCTAATAATTCTTTGACACAAATCTTCCAGGTACATT
 AATAAACCTGACAAATCTCACACATCTTACCTGCACAACAATAAGTTCACATTCATTCCAGACCAATCT
 TTTGACCAACTCTTTCAGTTGCAAGAGATAACCCCTTACAATAACAGGTGGTCATGTGACCACAAACAAA
 ACATTACTTACTTACTGAAGTGGATGATGGAAACAAAAGCCCATGTGATAGGGACTCCATGTTCTACCCA
 AATATCATCTTTAAAGGAACATAACATGTATCCCACACCTTCTGGATTTACCTCAAGCTTATTCAGTGA
 AGTGGGATGCAGACAGTGGACACCATAACTCTCTGAGTGTGGTAACTCAACCAAGTACCAAAATAC
 CCAAACAATATCGAACAAAGGAAACAACGTTTGGTGCCACTCTAAGCAAAGACACCACCTTTACTAGCAC
 TGATAAGGCTTTTGTGCCCTATCCAGAAGATACATCCACAGAGACTATCAATTCATGAAGCAGCAGCT
 GCAACTTAACCTTATCTCCAAGATGGAATGGTCAAAACACAAGCCTCACTAGCTCAACAAAATCAT
 CCCCACACCCATGACCCTAAGTATCACTAGTGGCATGCCAAATAATTTCTGAAATGCCTCAACAAAG
 CACAACCTTAACTTATGGAGGGAAGAGACAACCAAAATGTAAGACTCCATTACCTTCTGTGGCAAT
 GCTTGGAAAAGTAAATGCTTCATTTCTTATTGCTCAATGTTGTGGTCATGCTGGCTGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205319 protein sequence
 Red=Cloning site Green=Tags(s)

MEYQILKMSLCLFILLFLTPGILCICPLQICITERHRHVDCSGRNLSTLPSGLQENIIHLNLSYNHFTDL
 HNQLTQYTNLRLDISNNRLESLEPAHLPRSLWNMSAANNIKLLDKSDTAYQWNLKYLDVSKNMLEKVV
 IKNTLRSLVNLSSNKLWVPTNMPKSLHIVDLNNSLTQILPGTLINLTNLTHLYLHNNKFTFIPDQS
 FDQLFQLQEITLYNNRWSCDHKQNTYLLKMMETKAHVIGTPCSTQISSLKEHNMYPTPSGFTSSLFTV
 SGMQTVDTINLSVVTQPKVTKIPKQYRKETTFGATLSKDTTFTSTDKAFVPYPEDTSTETINSHEAAA
 ATLTIHLQDGMVTNTSLTSSKSSPTMTLSITSGMPNNFSEMPQQSTTLNLRWRETTTNNVKTPLPSVAN
 AWKVNASFLLLLNVVMLAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6313_c09.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_002544

ORF Size: 1320 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_002544.5](#)

RefSeq Size: 1945 bp

RefSeq ORF: 1323 bp

Locus ID: 4974

UniProt ID: [P23515](#)

Cytogenetics: 17q11.2

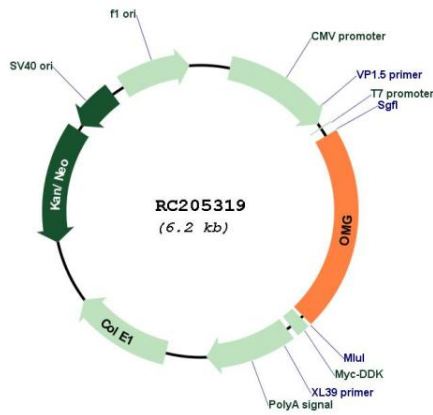
Domains: LRRNT, LRR, LRR_TYP, LRR_BAC

Protein Families: Druggable Genome, Transmembrane

MW: 49.6 kDa

Gene Summary: Cell adhesion molecule contributing to the interactive process required for myelination in the central nervous system.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC205319