

Product datasheet for **RG205319**

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:	TurboGFP
Symbol:	Oligodendrocyte myelin glycoprotein
Synonyms:	OMGP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205319 representing NM_002544 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAATATCAGATATTGAAAAATGTCTCTCTGCCTGTTTCATCCTTCTGTTTCTCACACCTGGTATTTTAT
GCATTTGCTCTCCAATGTATATGCACAGAGAGGCACAGGCATGTGGACTGTTCCAGGCAGAAAATTGTC
TACATTACCATCTGGACTGCAAGAGAATATTATACATTTAAACCTGTCTTATAACCACTTTACTGATCTG
CATAACCAAGTTAACCAATATACCAATCTGAGGACCCTGGACATTTCAAACAACAGGCTTAAAGCCTGC
CTGCTCACTTACCTCGGTCTCTGTGGAACATGTCTGCTGCTAACAACAACATTAACCTTCTTGACAAATC
TGATACTGCTTATCAGTGGAAATCTAAATATCTGGATGTTTCTAAGAACATGCTGGAAAAGTTGTCCTC
ATTAATAATACACTAAGAAGTCTCGAGGTTCTCAACCTCAGTAGTAACAACTTTGGACAGTTCCAAACCA
ACATGCCCTCCAAACTACATATCGTGGACCTGTCTAATAATTCTTTGACACAAATTTCCAGGTACATT
AATAAACCTGACAAATCTCACACATCTTACCTGCACAACAATAAGTTACATTCATTCCAGACCAATCT
TTTGACCAACTCTTTCAGTTGCAAGAGATAACCCTTTACAATAACAGGTGGTTCATGTGACCACAAACAAA
ACATTACTTACTTACTGAAGTGGATGATGGAAACAAAAGCCCATGTGATAGGGACTCCATGTTCTACCCA
AATATCATCTTTAAAGGAACATAACATGTATCCCACACCTTCTGGATTTACCTCAAGCTTATTCACTGTA
AGTGGGATGCAGACAGTGGACACCAATTAACCTCTGAGTGTGGTAACCTCAACCAAGTGACCAAAAATAC
CCAAACAATATCGAACAAAGGAAACAACGTTTGGTGCCACTCTAAGCAAAGACACCCTTTACTAGCAC
TGATAAGGCTTTTGTGCCCTATCCAGAAGATACATCCACAGAGACTATCAATTCACATGAAGCAGCAGCT
GCAACTCTAACTATTCATCTCCAAGATGGAATGGTCAAAAACACAAGCCTCACTAGCTCAACAAAATCAT
CCCCAACCCCATGACCCTAAGTATCACTAGTGGCATGCCAAATAATTTCTGAAATGCCTCAACAAAAG
CACAACCTTAACTTATGGAGGGAAGAGACAACCAAAATGTAAGACTCCATTACCTTCTGTGGCAAAAT
GCTTGGAAAGTAAATGCTTCATTCTCTTATTGCTCAATGTTGTGGTTCATGCTGGCTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205319 representing NM_002544
 Red=Cloning site Green=Tags(s)

MEYQILKMSLCLFILLFLTPGILCICPLQCICTERHRHVDCSGRNLSTLPSGLQENIIHLNLSYNHFTDL
 HNQLTQYTNLRTLDISNNRLESLEPAHLPRSLWNMSAANNIKLLDKSDTAYQWNLKYLDVSKNMLEKVV
 IKNTLRSLVNLSSNKLWVPTNMPKSLHIVDLSSNSLTQILPGTLINLNLTHLYLHNNKFTFIPDQS
 FDQLFQLQEITLYNNRWSCDHKQNTIYLLKWMETKAHVIGTPCSTQISSLKEHNMYPTPSGFTSSLFV
 SGMQTVDTINSLSVVTQPKVTKIPKQYRTKETTFGATLSKDTTFTSTDKAFVPYPEDTSTETINSHEAAA
 ATLTIHLDQGMVTNTSLTSSTKSSPTPMTLSITSGMPNNFSEMPQQSTTLNLWRETTTNTVKTPLPSVAN
 AWKVNASFLLLLLVVMLAV

TRTRPLE - GFP Tag - V

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: 1920 bp

RefSeq ORF: 1323 bp

Locus ID: 4974

UniProt ID: [P23515](#)

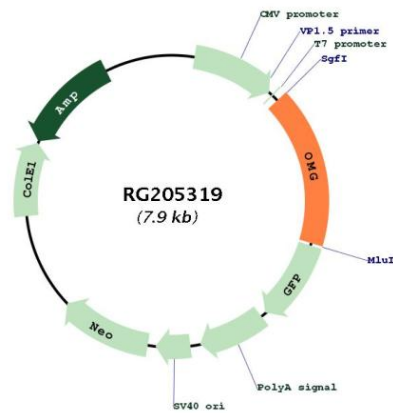
Cytogenetics: 17q11.2

Domains: LRRNT, LRR, LRR_TYP, LRR_BAC

Protein Families: Druggable Genome, Transmembrane

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 RG205319