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Product datasheet for SC118590

Oligodendrocyte myelin glycoprotein (OMG) (NM_002544) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oligodendrocyte myelin glycoprotein (OMG) (NM_002544) Human Untagged Clone
Tag:	Tag Free
Symbol:	Oligodendrocyte myelin glycoprotein
Synonyms:	OMGP
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC118590 sequence for NM_002544 edited (data generated by NextGen Sequencing)

ATGGAATATCAGATATTGAAAATGTCTCTCTGCCTGTTCATCCTTCTGTTTCTCACACCT
GGTATTTTATGCATTTGTCCTCTCCAATGTATATGCACAGAGAGGCACAGGCATGTGGAC
TGTTCAGGCAGAAACTTGTCTACATTACCATCTGGACTGCAAGAGAATATTATACATTTA
AACCTGTCTTATAACCACTTTACTGATCTGCATAACCAGTTAACCCAATATACCAATCTG
AGGACCCTGGACATTTCAAACAACAGGCTTGAAAGCCTGCCTGCTCACTTACCTCGGTCT
CTGTGGAACATGTCTGCTGCTAACAACAACATTAAACTTCTTGACAAATCTGATACTGCT
TATCAGTGGAATCTTAAATATCTGGATGTTTCTAAGAACATGCTGGAAAAGGTTGTCCTC
ATTAAAAATACACTAAGAAGTCTCGAGGTTCTCAACCTCAGTAGTAACAAACTTTGGACA
GTTCCAACCAACATGCCCTCCAAACTACATATCGTGGACCTGTCTAATAATTCTTTGACA
CAAATTCTTCCAGGTACATTAATAAACCTGACAAATCTCACACATCTTTACCTGCACAAC
AATAAGTTCACATTCATTCCAGACCAATCTTTTGACCAACTCTTTCAGTTGCAAGAGATA
ACCCTTTACAATAACAGGTGGTCATGTGACCACAAACAAAACATTACTTACTTACTGAAG
TGGATGATGGAAACAAAAGCCCATGTGATAGGGACTCCATGTTCTACCCAAATATCATCT
TTAAAGGAACATAACATGTATCCCACACCTTCTGGATTTACCTCAAGCTTATTCACTGTA
AGTGGGATGCAGACAGTGGACACCATTAACTCTCTGAGTGTGGTAACTCAACCCAAAGTG
ACCAAAATACCCAAACAATATCGAACAAAGGAAACAACGTTTGGTGCCACTCTAAGCAAA
GACACCACCTTTACTAGCACTGATAGGGCTTTTGTGCCCTATCCAGAAGATACATCCACA
GAGACTATCAATTCACATGAAGCAGCAGCTGCAACTCTAACTATTCATCTCCAAGATGGA
ATGGTCACAAACACAAGCCTCACTAGCTCAACAAAATCATCCCCAACACCCATGACCCTA
AGTATCACTAGTGGCATGCCAAATAATTTCTCTGAAATGCCTCAACAAAGCACAACCCTT
AACTTATGGAGGGAAGAGACAACCACAAATGTAAAGACTCCATTACCTTCTGTGGCAAAT
GCTTGGAAAGTAAATGCTTCATTTCTCTTATTGCTCAATGTTGTGGTCATGCTGGCTGTC
TGA

Clone variation with respect to NM_002544.4
986 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002544 unedited
CGCATTTTGTATACGACTCACTATAGGGCGGCCCGCGATTCGGCACGAGGACAAGACGAC
CTTTAGTTTCCCAGAGAAAAGAGATGCTGATGTTGAAGACGACACCACGGCTTTGATGGA
ATATCAGATATTGAAAATGTCTCTCTGCCTGTTCATCCTTCTGTTTCTCACACCTGGTAT
TTTATGCATTTGTCCTCTCCAATGTATATGCACAGAGAGGCACAGGCATGTGGACTGTTC
AGGCAGAAACTTGTCTACATTACCATCTGGACTGCAAGAGAATATTATACATTTAAACCT
GTCTTATAACCACTTTACTGATCTGCATAACCAGTTAACCCAATATACCAATCTGAGGAC
CCTGGACATTTCAAACAACAGGCTTGAAAGCCTGCCTGCTCACTTACCTCGGTCTCTGTG
GAACATGTCTGCTGCTAACAACAACATTAAACTTCTTGACAAATCTGATACTGCTTATCA
GTGGAATCTTAAATATCTGGATGTTTCTAAGAACATGCTGGAAAAGGTTGTCCTCATTAA
AAATACACTAAGAAGTCTCGAGGTTCTCAACCTCAGTAGTAACAAACTTTGGACAGTTCC
AACCAACATGCCCTCCAAACTACATATCGTGGACCTGTCTAATAATTCTTTGACACANAT
TCTTCCAGGTACATTAATAAACCTGACAAATCTCACACATCTTTACCTGCACAACANTAA
GTTCACATTCATTCCAGACCAATCTTTTGACCAACTCTTTCAGTTGCAAGAGATAACCCT
TTACCATAACAGGTGGTCATGTGACCACAAACAANACATTACTTACTTTACTGAGTGNAT
GATGGAAACANAGCCCATGTGATAGGNACTCCATGTTCTTACCCAATATCATCTTTTAAG
GGAACATACATGTATCCCACACCTTCTGGATTTACCTCAAGCT

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_002544 unedited
TGACCGCGGCCGCAATCTANATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTGAGCATAG
ACCTTTTATTTTCCAGATGTTTGACAGTGTAAACATACATAAAATACATATTAAAGTTTA
GATGCTTTATATTTTGGGCAATAAATTGAAGCCTTAAAACATTTCATTTTTTTTATAAAA
GAAACTCATTAGTTTACTTAATTAAGACAGTAAAATAGCAGCAAGTACCAAGACATTGGG
CATTTCTTTTATTTAAGACAAGTTACTTCATTTACATCAGAGTTAGAAATGTTAAGACTG
GCTTTCTTGAATACTTAAATATAGCTCGAATCACTGGTTAGATATGGACATATTTTCCCA
ACTGTACATCAGGGAGGAGTGCTTTCATTAGTTTCAGAAAATGCAGACCCTCAGACAGCC
AGCATGACCACAACATTGAGCAATAAGAGAAATGAAGCATTTACTTTCCAAGCATTTGCC
ACAGAAGGTAATGGAGTCTTTACATTTGTGGTTGTCTCTTCCCTCCATAAGTTAAGGGTT
GTGCTTTGTTGAGGCATTTCAGAGAAATTATTTGGCATGCCACTAGTGATACTTAGGGTC
ATGGGTGTTGGGGATGATTTTGTTGAGCTAGTGAGGCTTGTGTTTGTGACCATTCCATCT
TGGAGATGAATAGTTAAAGTTGCAGCTGCTGCCTCATGTGAATTGATAGCCTCTGTGGAT
GTATCTTCTGGATAGGCACCAAAGCCCTATCANGGCTAGAAAAGGTGGTGTCTTTGCTTA
GGTGGCCCCAAACCGTGGTTCCTTGTTCGAATTGGTTGGGATTTTGCGCACTTGGGGTGG
GGTACCCCCTCGGAAGTAATGGGGGCCACTGTTGCTTCCCCTTCCGGGGATAGCTTGAGG
GAAACCAGAGGGGGG
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Restriction Sites: NotI-NotI

ACCN: NM_002544

Insert Size: 1820 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_002544.3, NP_002535.3

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]