

Product datasheet for **SC118650**

Myelin oligodendrocyte glycoprotein (MOG) (NM_002433) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myelin oligodendrocyte glycoprotein (MOG) (NM_002433) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myelin oligodendrocyte glycoprotein
Synonyms:	BTN6; BTNL11; MOGIG2; NRCLP7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002433 unedited</p> <pre>TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTCGTGCCGAATTC GGCACGAGGGCCTGGCAAGGGTGACGTGGGGCTGTTTCTGCGGGCACAGCTGCAGCAATT ACCGGAGTGGAGGCAGGGCCAGGCAGCACTGCCCTCCAAGATCTTCCCTTGGGCTTTTC AGCAGTAAGGGGACATGCACCCCAAGGGCTCCACTTGGCCTGACCTTGTGCGGGGGCT CTCTGTCCCCAGGAACAGTAGAGATGGCAAGCTTATCGAGACCCTCTCTGCCAGCTGCC TCTGTCTTCCCTCCTCCTCCTCCTCCTCAAGTGTCTTCCAGCTATGCAGGGCAGTTCA GAGTGATAGGACCAAGACACCCTATCCGGGCTCTGGTCGGGGATGAAGTGAATTGCCAT GTCGCATATCTCCTGGGAAGAACGCTACAGGCATGGAGGTGGGGTGGTACCGCCCCCCT TCTCTAGGGTGGTTCATCTCTACAGAAATGGCAAGGACCAAGATGGAGACCAGGCACCTG AATATCGGGGCCGACAGAGCTGCTGAAAGATGCTATTGGTGAGGGAAAGGTGACTCTCA NGATCCGGAATGTAAGGTTCTCAGATGAAGGAGGTTTCACCTGCTTCTCCGAGATCATT CTTACCAAGAGGAGGCAGCAATGGAATTGAAAGTAGAAGATCCTTTCTACTGGGTGAGCC CTGNAGTCTGGTTCCTCGCGGTGCTGCCTGTGCTCCTCCTGCAGATCACTGTTGGCC TCGTCTTCTCTGCCTGCAGTACAGACTGAGAGGAANAACCTCGAGCAGAGATAGAGAATC TACCCGACTTTTGACCCCACTTTCTGAGGGTGCCTGCTG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002433 unedited</p> <pre>TGTATTATTTTTNTTATTTNTAATATCTNCATCNTNTAATTTATATTATTTTATTATT TATTTTTGAGACAGAGTCTTACTCTGTCACTCCGGCTAGAGTGCAGTGGCGGNAACTC AGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGCCGATTCTCCTGCCTCAGCCTCCGGNG NNNNNANNNNNNACTGGTATTTAAAAAGTGCCCACTATNTTTGGNNCCTCAGTTAA TTTGTTTTNNNNNGGGTNTTTTATTTAATAGCAAAAAAAAAAAAAAAAAAGAGGGGGGGGG GGTTTTTTACCCCTTGTTTTGGCCACGCTTGGTCTTTGAACCTCCCAGCCCTCGGGATTTT CGCCCGCCTTGGGCCTTCCAAGTTGCTGGGAATAACAGGCCTGAAACCACCCCAACCCG GCCAAAACTCGAATTTTTATAAATTACCACCTACCTGGTTTGTGGGGCCGACCATC AAGAATAATTGGTGAATAAACAGGGGAATCTCTTGTGTAATTGAGNATTGGAAAAAGAT GAAAGGAAGAAAGATTCTGAAACCTGTGAAAATGTGTAAGTAAAAAGAAACATTCTAAAC AGCATGTTGCCACCTTTCGTTTTGCCTCCCAAGTCCCTATAAGCTGCAAGACAAGAGGA CCTTGGCTAGTATTCTGTAGTTTTCTCCCATCTCAGTTTGGGTGGGGCTACTAAATCCTC ACTTTAACTAACTCAATCTTTTTAAAGGTTGGCCTCTTCTTTCCTTAAAGCCTTT AAATTTCCCAATCAGGCTGAAGCCTTGA AAAACAACCAATTTGCAAATCCCAACTGGA ATTTACAGAGGAAAAATCCTGCCCCCAATTATAGAAAAACCCCTTTTTCTCCAAAA AAGGGCCCTTAAAGAAAAAGGGCACCCCTTCTCTACCAAAAAGGCTCCCGGGAAACA CGGAAAAAAAAAGAAN</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_002433
Insert Size:	2150 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_002433.3](#), [NP_002424.3](#)

RefSeq Size: 1869 bp

RefSeq ORF: 759 bp

Locus ID: 4340

UniProt ID: [Q16653](#)

Cytogenetics: 6p22.1

Domains: ig, IGv, IG

Protein Families: Transmembrane

Gene Summary: The product of this gene is a membrane protein expressed on the oligodendrocyte cell surface and the outermost surface of myelin sheaths. Due to this localization, it is a primary target antigen involved in immune-mediated demyelination. This protein may be involved in completion and maintenance of the myelin sheath and in cell-cell communication. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (beta1) encodes the beta1 isoform, also known as isoform 1.