

Product datasheet for **SC328176**

Myelin oligodendrocyte glycoprotein (MOG) (NM_001170418) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myelin oligodendrocyte glycoprotein (MOG) (NM_001170418) Human Untagged Clone
Tag:	Tag Free
Symbol:	MOG
Synonyms:	BTN6; BTNL11; MOGIG2; NRCLP7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001170418, the custom clone sequence may differ by one or more nucleotides ATGGCAAGCTTATCAAGACCCTCTCTGCCAGCTGCCTCTGCTCCTTCTCCTCCTCCTCCTCCTCCTCCTCAAGTGTCTCCAGCTATGCAGATCCTTTCTACTGGGTGAGCCCTGGAGTGCTGTTCTCCTCGCGGTGCTGCCTGTGCTCCTCCTGCAGATCACTGTTGGCCTCATCTTCCTCTGCCTGCAGTACAGACTGAGAGGAAAACCTCGAGCAGAGATAGAGAATCTCCACCGGACTTTTGAGTCCTTTGGTGTCTAGGACCCAGGTTAAGGAACCAAAAAGACAGGGCAATTCCTGAAGAGCTACGAAATCCCTTCTGA
Restriction Sites:	Please inquire
ACCN:	NM_001170418
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).



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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_001170418.1](#), [NP_001163889.1](#)

RefSeq Size: 1753 bp

RefSeq ORF: 327 bp

Locus ID: 4340

UniProt ID: [Q16653](#)

Cytogenetics: 6p22.1

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 (alpha6) lacks an alternate in-frame exon in the 5' coding region and differs in the 3' coding region and 3' UTR, compared to variant beta1. The encoded isoform (alpha6) has a distinct C-terminus and is shorter than isoform beta1.