

Product datasheet for **RC225170**

Myelin oligodendrocyte glycoprotein (MOG) (NM_206814) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myelin oligodendrocyte glycoprotein (MOG) (NM_206814) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: MOG
Synonyms: BTN6; BTNL11; MOGIG2; NRCLP7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC225170 representing NM_206814
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCAAGCTTATCAAGACCTCTCTGCCAGCTGCCTCTGCTCCTTCTCCTCCTCCTCCTCCAAG
TGCTTCCAGCTATGCAGATCCTTCTACTGGGTGAGCCCTGGAGTGCTGGTTCTCTCGCGGTGCTGCC
TGTGCTCCTCCTGCAGTCACTGTTGGCCTCATCTTCTCTGCCTGCAGTACAGACTGAGAGGAAACTT
CGAGCAGAGATAGAGAATCTCCACCGGACTTTTGATCCCCACTTCTGAGGGTGCCTGTGGAAGATAA
CCCTGTTTGAATTGTGCCGGTTCTGGACCTTGGTTGCCTTGATCATCTGCTACAACCTGGCTACATCG
AAGACTAGCAGGCAATTCCTTGAAGAGCTACGAAATCCCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225170 representing NM_206814
Red=Cloning site **Green**=Tags(s)

MASLSRPSLPSCLCSFLLLLLLQVSSSYADPFYWSPGVLVLLAVLPVLLLQITVGLIFLCLQYRLRGKL
RAEIEIENLHRTFDPHFLRVPCWKITLFFVIVPVLGPLVALIICYNWLHRRLAGQFLEELRNPF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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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:	<ol style="list-style-type: none">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_206814.6
RefSeq Size:	1822 bp
RefSeq ORF:	396 bp
Locus ID:	4340
UniProt ID:	Q16653
Cytogenetics:	6p22.1
Protein Families:	Transmembrane
MW:	15 kDa
Gene Summary:	<p>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]</p>