

## Product datasheet for **RG225170**

### 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:** TurboGFP  
**Symbol:** MOG  
**Synonyms:** BTN6; BTNL11; MOGIG2; NRCLP7  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG225170 representing NM\_206814  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAAGCTTATCAAGACCTCTCTGCCAGCTGCCTCTGCTCCTTCTCCTCCTCCTCCTCCAAG  
TGTCTTCAGCTATGCAGATCCTTCTACTGGGTGAGCCCTGGAGTGCTGGTTCTCCTCGCGGTGCTGCC  
TGTGCTCCTCCTGCAGATCACTGTTGGCCTCATCTTCTCTGCCTGCAGTACAGACTGAGAGGAAACTT  
CGAGCAGAGATAGAGAATCTCCACCGACTTTTGATCCCCACTTCTGAGGGTGCCTGCTGGAAGATAA  
CCCTGTTGTAATTGTGCCGTTCTTGACCCTTGTTGCCTTGATCATCTGCTACAACCTGGCTACATCG  
AAGACTAGCAGGGCAATTCCTTGAAGAGCTACGAAATCCCTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG225170 representing NM\_206814  
Red=Cloning site Green=Tags(s)  
MASLSRPSLPSCLCSFLLLLLQVSSSYADPFYWSPGVLVLLAVLPVLLLQITVGLIFLCLQYRLRGKL  
RAEIENLHRTFDPHFLRVPWKITLRFVIVPVLGPLVALIICYNWLHRRLAGQFLEELRNPF

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_206814.6</a>
<b>RefSeq Size:</b>	1822 bp
<b>RefSeq ORF:</b>	396 bp
<b>Locus ID:</b>	4340
<b>UniProt ID:</b>	<a href="#">Q16653</a>
<b>Cytogenetics:</b>	6p22.1
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<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>