

## Product datasheet for **SC306096**

### **OLIG1 (NM\_138983) Human Untagged Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | OLIG1 (NM_138983) Human Untagged Clone |
| Tag:                      | Tag Free                               |
| Symbol:                   | OLIG1                                  |
| Synonyms:                 | BHLHB6; BHLHE21                        |
| Mammalian Cell Selection: | None                                   |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>       |
| E. coli Selection:        | Ampicillin (100 ug/mL)                 |



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**Fully Sequenced ORF:** >OriGene sequence for NM\_138983 edited  
 GTTCTAGATCGTTTTCCCGCGCGCAGGTCCGCGGGGAGGGGCGGCCTGCCGACCGGCCCA  
 CCCCAGGGCGTTCCTGAAGGGCGTCTCGGCCGCCCCACCGCTCCCAGATGTAATG  
 CGGTTTCCAGGCGCGGTGAACCGGTCCCGGGACCATGCTGCGGCCACAGCGGCCG  
 GAGACTTGACGCTCGGGGCTCCTCTACGAGCTGGTGGGCTACAGGCAGCCGCCCTCT  
 CCTCTCTCTCCACCTCCTCCACCTCCTCCTCTCTCTCCACGACGGCCCCC  
 TCTCCCCAAGGCTGCGCGGAGAAGCCGGAGGGCGCGGCGAGCCTCCAGGCCCGGGC  
 CCGGGTCAGGCGGCACCCGGGCGCAGCGCCCGCCGACGCCAAGGAGGAGCAGCAGC  
 AGCAGCTGCGGCCAAGATCAACAGCCGAGCGGAAGCGCATGCAGGACCTGAACCTGG  
 CCATGGACGCCCTGCGCGAGGTATCCTGCCCTACTCAGCGGCGCACTGCCAGGGCGCGC  
 CCGGCCGCAAGCTCTCAAGATAGCCACGCTGCTGCTCGCCGCAACTACATCTACTGC  
 TGGGCAGCTCGCTGCAGGAGCTGCGCCGCGCGTGGGCGAGGGCGCGGGCCCGCGCGC  
 CGCGCCTGCTGCTGGCCGGGCTGCCCTGCTCGCCGCGCGCCCGCTCCGTGCTGCTGG  
 CGCCCGGCGCGTAGGACCCCCGACGCGCTGCGCCCGCAAGTACCTGTGCTGGCGC  
 TGGACGAGCCCGGTGCGGCCAGTTCGCTCTCCCGGCGCGGCGCAGGGCGGCCCGGCC  
 TCTGCACCTGCGCGTGTGCAAGTTCGCCACCTGGTCCCGGCCAGCCTGGGCCTGGCCG  
 CCGTGCAGGCGCAATTCTCAAGTGAGGGCGGGTCTGGGCCTGGGGCGCGACCTCGGCC  
 GGCTCCCTTCGCTCAGCTTCTCCGCGCCCTGCTCCCTGCGTCTGGGAGAGCGAGGCCG  
 AGCAAGGAAAGCATTTCGAACCTTCCAGTCCAGAGGAAGGACTGTGGGCACCCCTTC  
 CCCGCCCCACCCTGGGACGTTAAAGTGACCAGAGCGGATGTTTCGATGGCGCCTCGGG  
 CAGTTTGGGGTTCGGGTGCGTTCAGCGGCTTAGGCAGAAAGTGTGCTGCTCACCCA  
 GCACATCTCTCTTTCCTGGAGTTGCGCGCTTCGCGGGCCGATGTAGAATTAGG  
 GCGCCTTGCCGTGTTGGCGCGCCCGGGTGCAGCGAGAGGCCATCCCCGAGCGTACCT  
 CCCCGGAGCGGAGCAGCGGGCTCCAGTACTAGGGGCTGCGCTCGAGCAGTGGCGGGG  
 CGGAGGGGTGTTCTTTCTCTCTCCGCGAGAGGCCACGGGCGCCCTTGTCCCGCC  
 GGCCAGGTCTATCAAAGGAGGCTGCCGGAACCAAGAGGCAGAAAAAGACCAGTTAGGC  
 GGTGCAGACGGTCTGGGACGTGGCAGACGGACGGACCCTCGGCGGACAGGTGGTCGGCGT  
 CGGGGTGCGGTGGGTAGGGGCGAGGACAACGCAGGGTGCCTGGGTTGGGACGTGGGTCC  
 ACTTTTGTAGACCAGCTGTTGGAGAGCTGTATTAAGACTCGCGTATCCAGTGTTTTGT  
 CGCAGAGAGTTTTCACTTTAAATCCTGGGGTTTTCTTAGAAAGCAACTAGAACTCGAG  
 ATTCACCTTTTCGTTTCCCTTTCCCAAAAGTAGCGTAACCAACATTTAAGCTTGCTTAA  
 AACGAAAACCAACCGCTTGCATCCAGTGTCCCGATTTACTAAAATAGTAACCAAGGCG  
 TCTCACAGTGCAGCTCCTGTCAAGAGCGCTAATGAACGTTCTCATTAAACGCGAGGAGTA  
 CCGGGAGCCCTGAACCGCCCGTCTCGGCGGATCCCAGCTGCGGTGGCGACGGCGGGAA  
 GGCGCTTTCGCTGTTCTCAGCGGGCCGGGCCCTTGACCAGCGCGGCCCGCAGGTCTTC  
 CTTCTCGCCGTCTGCAGTTGAAGAGCTACATACGTAGTCAGTTTCGATTTGTTACAGAC  
 GTTAACAAATTCCTTTACCCAAGTTATGCTATGACCTTCCGCGAGTTACTTTGATTTT  
 CTATGTTAAGGTTTTGGTTGTTGGTAGTAGCCGAATTTAACTGGCACTTTATTTTACTT  
 CTAACCTTGTTCCTGACGGGTACAGAATCAACAAAATAAAACATTTAAAGTCTGATTT  
 TTTAAAAAAAAAAAAAAAAA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_138983

**Insert Size:** 2300 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).

|                               |   |
|-------------------------------|---|
| <b>OTI Annotation:</b>        | 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.  |
| <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_138983.1</a> , <a href="#">NP_620450.1</a>   |
| <b>RefSeq Size:</b>           | 2168 bp   |
| <b>RefSeq ORF:</b>            | 768 bp  |
| <b>Locus ID:</b>              | 116448  |
| <b>UniProt ID:</b>            | <a href="#">Q8TAK6</a>  |
| <b>Cytogenetics:</b>          | 21q22.11  |
| <b>Protein Families:</b>      | Druggable Genome  |
| <b>Gene Summary:</b>          | Promotes formation and maturation of oligodendrocytes, especially within the brain. Cooperates with OLIG2 to establish the pMN domain of the embryonic neural tube (By similarity).[UniProtKB/Swiss-Prot Function]  |