

Product datasheet for **RG205155**

OLIG1 (NM_138983) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: OLIG1 (NM_138983) Human Tagged ORF Clone
 Tag: TurboGFP
 Symbol: OLIG1
 Synonyms: BHLHB6; BHLHE21
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >RG205155 representing NM_138983
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTA
 TACTATGCGGTTTCCAGGCGCGGTGAACGCGGTCCCCGGGACCATGCTGCGGCCACAGCGGCCCG
 GAGACTTGCAGCTCGGGCCTCCCTCTACGAGCTGGTGGGCTACAGGCAGCCGCCCTCCTCCTCCTC
 CTCCACCTCCTCCACCTCCTCCACTTCTCCTCCTCCACGACGGCCCCCTCCTCCCAAGGCTGCGCG
 GAGAAGCCGGAGGCGCCGCGGAGCCTCCAGGCCCGGGCCGGGTGAGGCGCGCACCCGGGCGGACGCG
 CCCGGCCGGACGCAAGGAGGAGCAGCAGCAGCTGCGGCGCAAGATCAACAGCCGCGAGCGGAAGCG
 CATGCAGGACCTGAACCTGGCCATGGACGCCCTGCGCGAGGTATCCTGCCTACTCAGCGGCGCACTGC
 CAGGGCGCGCCCGGCCGAAGCTCTCAAGATAGCCACGCTGCTGCTCGCCCGCAACTACATCCTACTGC
 TGGGCAGCTCGTGCAGGAGCTGCGCCGCGCGCTGGGCGAGGGCGCCGGGCCCGCCGCGCCGCGCTGCT
 GCTGGCCGGGCTGCCCTGCTCGCCGCGCGCCGGCTCCGTGCTGCTGGCGCCCGGCGCCGTAGGACCC
 CCCGACGCGCTGCGCCCCGCAAGTACCTGTGCTGGCGCTGGACGAGCCGCGGTGCGGCCAGTTGCTC
 TCCCCGGCGGCGCAGGCGGCCCGGCTCTGACCTGCGCGTGTGCAAGTCCCGCACCTGGTCCC
 GGCCAGCTGGGCTGGCCGCGTGCAGGCGCAATTCTCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205155 representing NM_138983
Red=Cloning site Green=Tags(s)

MYAVSQARVNAVPGTMLRPQRPGLQLGASLYELVGYRQPPSSSSSSTSSTSSTSSTTAPLLPKAAR
 EKPEAPAEPPGPGSGAHPGGSARPDAAKEEQQQQLRRKINSRERKRMQDLNLAMDALREVILPYSAHHC
 QGAPGRKLSKIATLLLLARNYILLGGSSLQELRRALGEGAGPAAPRLLLAGLPLLAAPGVSLLAPGAVGP
 PDALRPAKYLSLALDEPPCGQFALPGGGAGGPGGLCTCAVCKFPHLVPASLGLAAVQAQFSK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138983

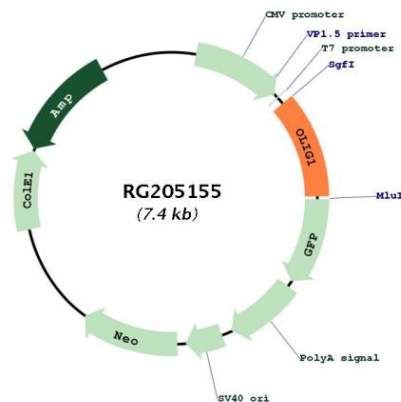
ORF Size: 813 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_138983.3
RefSeq Size:	2293 bp
RefSeq ORF:	816 bp
Locus ID:	116448
UniProt ID:	Q8TAK6
Cytogenetics:	21q22.11
Protein Families:	Druggable Genome
Gene Summary:	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]

Product images:


Circular map for RG205155