

## Product datasheet for **RG235494**

### OPALIN (NM\_001284326) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** OPALIN (NM\_001284326) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** OPALIN  
**Synonyms:** HTMP10; TMEM10; TMP10  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG235494 representing NM\_001284326.  
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC  
ATGGAGGAAAGTGACAGACCATGTGAAATTTAGAAAATTGATGACAATCCCAAGATATCTGAGAATCCT  
AGGAGATCACCCACACATGAGAAGAATACGATGGGAGCACAAGAGGCCACATATATGTGAAGACTGTA  
GCAGGAAGCGAGGAACCTGTGCATGACCGTTACCGTCCTACTATAGAAAATGGAAGAAGGAGGGATTG  
TGGTGGCTTGTGCCAGACTGAGCCTGGAA  
ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAAAC

**Protein Sequence:** >Peptide sequence encoded by RG235494  
Blue=ORF Red=Cloning site Green=Tag(s)

MEESDRPCEISEIDDPNKISENPRRSPTHEKNTMGAQEAHIYVKTVAGSEEPVHDRYRPTIEMERRRGL  
WWLVPRLSLE  
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIDGFKVMGTGFPEP  
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRFSLRDGGYSSVVDSHMHFKSAIHP SILQNGGPMFA  
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**


**ACCN:** NM\_001284326

**ORF Size:** 237 bp

**OTI Disclaimer:** 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).

**RefSeq:** [NM\\_001284326.1](#), [NP\\_001271255.1](#)

**RefSeq Size:** 3413 bp

**RefSeq ORF:** 240 bp

**Locus ID:** 93377

**UniProt ID:** [Q96PE5](#)

**Cytogenetics:** 10q24.1

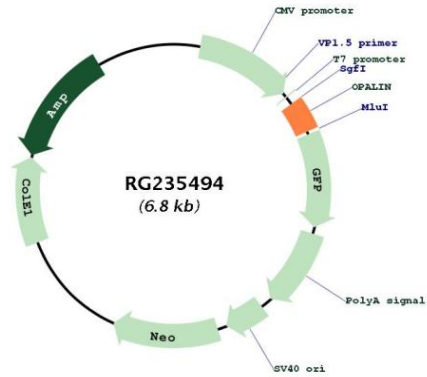
**Protein Families:** Transmembrane

**MW:** 9.8 kDa

**Gene Summary:**

Central nervous system-specific myelin protein that increase myelin genes expression during oligodendrocyte differentiation. Promotes oligodendrocyte terminal differentiation.  
 [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG235494