

## Product datasheet for **RG235896**

### OPALIN (NM\_001284323) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** OPALIN (NM\_001284323) 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:** >RG235896 representing NM\_001284323.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGGATGACGTCTCTCTGTACAGGTGGGAAAGAAACGGACTGTGGCCCTCTCTGGATTAGCG
GCGGGCATACCATTGCTGGTGGCCACAGCCCTGCTGGTGGCTTTACTATTTACTTTGATTCACCGAAGA
AGAAGCAGCATTGAGGCCATGGAGGAAAGTGACAGACCATGTGAAATTTAGAAATTGATGACAATCCC
AAGATATCTGAGAATCCTAGGAGATCACCCACACATGAGAAGAATACGATGGGAGCACAAGAGGCCAC
ATATATGTGAAGACTGTAGCAGGAAGCGAGGAACCTGTGCATGACCGTTACCGTCTACTATAGAAATG
GAAAGAAGGAGGGGATTGTGGTGGCTTGTGCCAGACTGAGCCTGGAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG235896  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MRMTSSPVTGGKETDCGPSLGLAAGIPLLVATALLVALLFTLIHRRRSSIEAMEESDRPCEISEIDNP
KISENPRRSPTHEKNTMGAQEAHIYVKTVAGSEEPVHRYRPTIEMERRRGLWWLVPRLSLE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001284323

**ORF Size:** 393 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\\_001284323.1](#), [NP\\_001271252.1](#)

**RefSeq Size:** 3452 bp

**RefSeq ORF:** 396 bp

**Locus ID:** 93377

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

**Cytogenetics:** 10q24.1

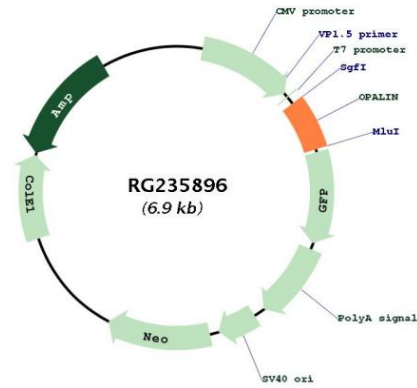
**Protein Families:** Transmembrane

**MW:** 15.1 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 RG235896