

Product datasheet for **RG235871**

OPALIN (NM_001284321) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: OPALIN (NM_001284321) 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: >RG235871 representing NM_001284321.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACGTCCTCTCCTGTACAGGTGGGAAAGAAACGGACTGTGGGCCCTCTCTTGATTAGCGGGGGC
ATACCATGCTGGTGGCCACAGCCCTGCTGGTGGCTTTACTATTTACTTTGATTCACCGAAGAAGAAGC
AGCATTGAGGCCATGGAGGAAAGTGACAGACCATGTGAAATTCAGAAATGATGACAATCCCAAGATA
TCTGAGAATCCTAGGAGATCACCCACACATGAGAAGAATACGATGGGAGCACAAGAGGCCACATATAT
GTGAAGACTGTAGCAGGAAGCGAGGAACCTGTGCATGACCGTTACCGTCCTACTATAGAAATGAAAAGA
AGGAGGGGATTGGTGGCTTGCCAGACTGAGCCTGGAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235871
Blue=ORF Red=Cloning site Green=Tag(s)

```
MTSSPVTGGKETDCGPSLGLAAGIPLL VATALL VALLFTLIHRRRSSIEAMEESDRPCEISEIDDPKI
SENPRRSPTHEKNTMGAQEAHIYKTVAGSEEPVHDRYRPTIEMERRRGLWWLVPRLSLE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-Mlul



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Cloning Scheme:


ACCN: NM_001284321

ORF Size: 387 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_001284321.1](#), [NP_001271250.1](#)

RefSeq Size: 3599 bp

RefSeq ORF: 390 bp

Locus ID: 93377

UniProt ID: [Q96PE5](#)

Cytogenetics: 10q24.1

Protein Families: Transmembrane

MW: 14.8 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 RG235871