

Product datasheet for **RG235495**

OPALIN (NM_001284327) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: OPALIN (NM_001284327) 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: >RG235495 representing NM_001284327.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGGAAAGTGACAGACCATGTGAAATTTAGAAAATTGATGACAATCCCAAGATATCTGAGAATCCT
AGGAGATCACCCACACATGAGAAGAATACGATGGGAGCACAAGAGGCCACATATATGTGAAGACTGTA
GCAGGAAGCGAGGAACCTGTGCATGACCGTTACCGTCCTACTATAGAAATGGAAAGAAGGAGGGATTG
TGGTGGCTTGTGCCCAGACTGAGCCTGGAA
ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235495
Blue=ORF Red=Cloning site Green=Tag(s)

```
MEESDRPCEISEIDDPKISENPRRSPHEKNTMGAQEAHIYVKTVAGSEEPVHDRYRPTIEMERRRGL
WWLVPRLSLE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIRSNTVEHLHPMGDNDLDGSFTRFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001284327

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_001284327.1](#), [NP_001271256.1](#)

RefSeq Size: 3306 bp

RefSeq ORF: 240 bp

Locus ID: 93377

UniProt ID: [Q96PE5](#)

Cytogenetics: 10q24.1

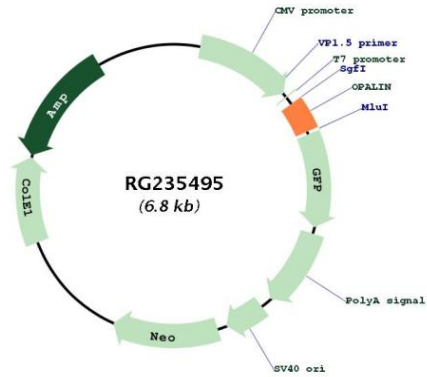
Protein Families: Transmembrane

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 RG235495