

Product datasheet for MR200928

Opalin (NM_153520) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Opalin (NM_153520) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Opalin
Synonyms: Tmem10; Tmp10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200928 representing NM_153520
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTTTTCTACTGAACTTTACTGCCATCGAATACGACATCCTCTCCAGTTGTCACGAGTGCCAAAG
 CCACAGACTGTGGTCCCTCTATTGGACTGGCAGCCGGAATCCCATCCCTGCTGGCCACAGCCCTGCTGGT
 GGCTTTGCTGTTACCTTGATCCAGCGAAGAAGAACCATCGATGATGAGCCCGTAGAGGAGACTGAGATA
 CCATGTGAAATTTCAGAACTCTATGACAATCCCAAATATCTGAGAATCCTAGGCGGTACCCACACATG
 AAATGAACCCACGGGGCAGCCAAGAAGGGCACATATATGTGAAGACTGTCTCGGGAAGCGAGGAGCCCT
 GCCGGACACCTACCGTCCTCTGAAGAAGTAAAGGAGAAGAGGACTTTGGTGGCTTGTACCCAGCCTG
 AGCCTAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200928 representing NM_153520
 Red=Cloning site Green=Tags(s)

MSFSLNFTLPSNTTSSPVVTSAKATDCGPSIGLAAGIPSLLATALLVALLFTLIQRRRTIDDEPVEETEI
 PCEISELYDNPKISENPRRSPTHEMNPGRSQEGHIYVKTVSGSEEPLPDTYRPEELERRRLWLVPSL
 SLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

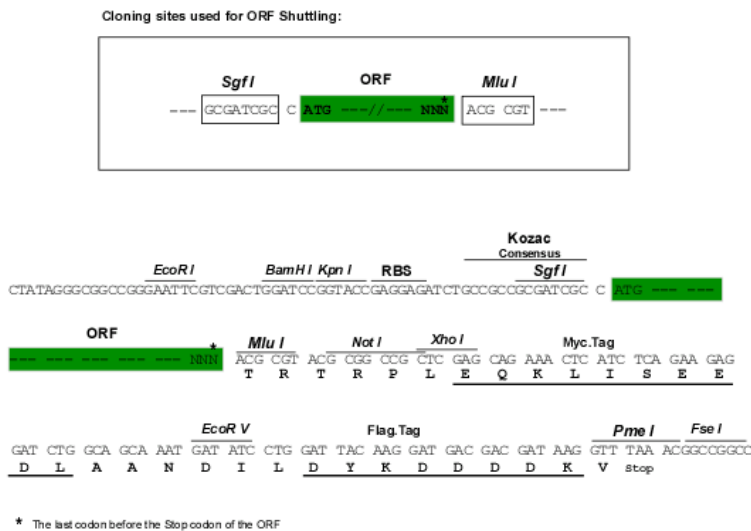
Chromatograms: https://cdn.origene.com/chromatograms/mm9025_h09.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153520

ORF Size: 429 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).

Reconstitution Method:

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_153520.2](#)

RefSeq Size: 892 bp

RefSeq ORF: 432 bp

Locus ID: 226115

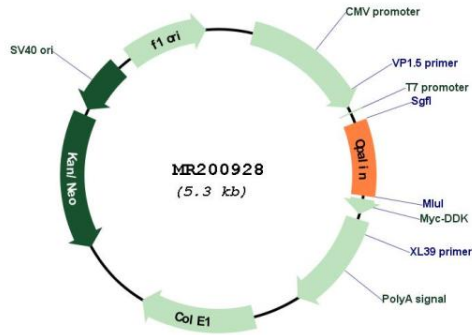
UniProt ID: [Q7M750](#)

Cytogenetics: 19 C3

MW: 16.3 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 MR200928