

Product datasheet for **RG205430**

ERMN (NM_020711) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ERMN
Synonyms:	JN; KIAA1189
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG205430 representing NM_020711
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAGATGTTCCGGCTACATTTACCCAGGCTGAGTGAATGGGGATAAACCACCTGAAAACGGTCAAC
AAACAATCACTAAAATCAGTGAGGAATTGACTGATGTGGACAGCCCCCTGCCACACTACAGGGTAGAACC
CAGTCTGGAAGGTGCACTACCAAAGGAAGTCAGGAGGAAAGAAGAAAATTACAAGGGAACATGCTGCTC
AACTCATCCATGGAGGACAAAAATGCTAAAAGAAAACCCAGAAGAGAACTCTTTATTGTTTCATAAGGCTA
TCACAGATCTTTCTCTCAAGAACTAGTGCTGATGAAATGACATTCAGAGAAGGGCATCAGTGGGAGAA
GATTCCTCTGAGTGGCAGTAACCAGGAAATAAGAAGACAGAAGGAGAGGATTACTGAGCAGCCTCTCAAA
GAGGAAGAAGATGAGGACAGGAAGAACAAGGTCACCAGGCAGCTGAAATTGAATGGCTGGGATTTCGAA
AACCTAGCCAAGCTGACATGTTACATTCTAAACATGATGAGGAGCAGAAGGTTTGGGATGAAGAAATTGA
TGATGATGATGATGATAATTGCAATAATGATGAAGATGAAGTTCGAGTGATAGAATTTAAGAAAAACAT
GAAGAGGTTTCTCAATTTAAAGAGGAAGGTGATGCAAGTGAGGACTCCCCACTGAGCAGTGCCAGTTCCC
AAGCTGTGACACCTGATGAGCAGCCAACCTTAGGGAAGAAGATGATATCTCCAGAAATGCTTATTCAG
ATACAATAAATCCTATCGGAAAATCAGAAAGGGAATACCAAGCAAGAATTGATGAATTCGAGTCT
ATGATGCATTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG205430 representing NM_020711
 Red=Cloning site Green=Tags(s)

MTDVPATFTQAEKNGDKPPENGQQTITKISEELTDVDSPLPHYRVEPSLEGALTKGSQEERRKLQGNMML
 NSSMEDKMLKENPEEKLFIVHKAITDLSLQETSADMTFREGHQWEKIPLSGSNQEIIRRKERITEQPLK
 EEEDEDKKNKGHQAEEIWLGRKPSQADMLHSHKDEEQKVWDEEIDDDDDNCNNDDEVRVIEFKKKH
 EEVSQFKEEGDASEDSPLSSASSQAVTPDEQPTLGKKSDISRNASRYNTISYRKIRKGNTKQRIDEFES
 MMHL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

ACCN: NM_020711

ORF Size: 852 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_020711.3](#)

RefSeq Size: 3790 bp

RefSeq ORF: 855 bp

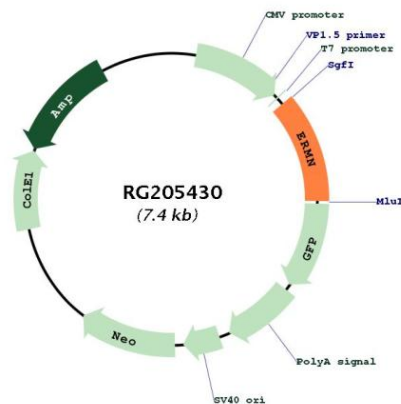
Locus ID: 57471

UniProt ID: [Q8TAM6](#)

Cytogenetics: 2q24.1

Gene Summary: Plays a role in cytoskeletal rearrangements during the late wrapping and/or compaction phases of myelinogenesis as well as in maintenance and stability of myelin sheath in the adult. May play an important role in late-stage oligodendroglia maturation, myelin/Ranvier node formation during CNS development, and in the maintenance and plasticity of related structures in the mature CNS (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205430