

## Product datasheet for MR215466

### Metrn (NM\_133719) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Metrn (NM_133719) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Metrn
Synonyms:	1810034B16Rik; EyeLinc16; Hyrac
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR215466 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGTAGCCACGCTTCTTTGCGGCTCTGTTGCGGCCTCCTGGCCGCGTCCGCTCACGCTGGCTACT  
CGGAAGACCGCTGCAGCTGGAGGGGAGCGTTTGACCCAGGAGCCTGGCAGCGTGGGGCAGCTGACCC  
GGACTGTACTGAGGGCGCTATCGAGTGGCTGTACCCAGCTGGGGCGTGCCTGACCCCTGGGCGGCCCC  
GATCCGGGCACACGGCCAGCATCGTCTGTCTGCGCCAGAGCGGCCCTTCGCTGGTGCCAGGTCTTCG  
CTGAACGTATGACCGCAATCTAGAGTTGCTACTGGCCGAGGGCCCGACCTGGCTGGGGCCGCTGCAT  
GCGCTGGGGTCCCGCGAGCGCCGAGCCCTTTTCTGCAGGCCACACCACCCGCGACATCAGCCGAGA  
GTTGCTGCCTTCCGTTTTGAACTGCACGAGGACCAACGTGCAGAAATGTCTCCCCAGGCTCAAGGCTTG  
GTGTGGATGGTGCCTGCAGGCCCTGCAGTATGCGGAGCTCCTCCTGGCTGCATGCACCAAGTATTTGT  
GATCCACGGGACCATCCATGGGGTGCAGCATGACACAGAGCTGCAAGAATCAGTCATCACTGTGGTGGTT  
GCTCGTGCATCCGCCAGACACTGCCACTGTTCAAGGAAGGGAGCTCGGAGGGCCAAGGCCGGCCCTCCA  
TTCGTACCTTGTGCGCTGTGGTGTGCGTCTGGCCAGGCTCCTTCTTTCATGGGCTGGAGCCGATT  
TGGCGAAGCTTGGCTGGGCTGTGCTCCCGCTTCCAAGAGTTCAGCCGTGTCTATTACAGTGTCTCAGC  
ACCCATCTCAACCATGTGAGATGGCACTGGAC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR215466 protein sequence  
Red=Cloning site Green=Tags(s)

MLVATLLCALCCGLLAASAHAGYSEDRCSWRGSGLTQEPGSGVQLTLDCTEGAIEWLYPAGALRLTLGGP  
 DPGTRPSIVCLRPERPFAQAQVFAERMTGNLELLLAEGPDLAGGRCMRWGPRRRALFLQATPHRDISRR  
 VAAFRFELHEDQRAEMSPQAQGLGVDGACRPCSDAELLAACTSDFVIHGTHGVAHDTELQESVITVVV  
 ARVIRQTLPLFKEGSEGGQGRASIRTLRLCGVPRPGSFLFMGWSRFGEAWLGCAPRFQEF SRVYSAALT  
 THLNPCEMALD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_133719

**ORF Size:** 876 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\\_133719.2](#), [NP\\_598480.1](#)

**RefSeq Size:** 1363 bp

**RefSeq ORF:** 876 bp

**Locus ID:** 70083

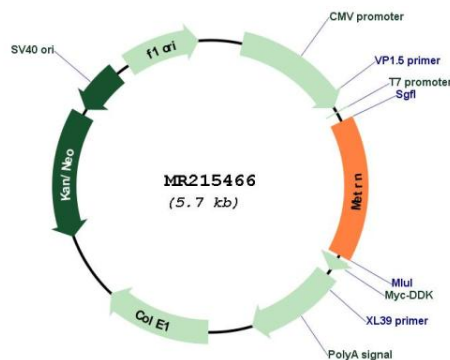
**UniProt ID:** [Q8C1Q4](#)

**Cytogenetics:** 17 A3.3

**MW:** 31.5 kDa

**Gene Summary:** Involved in both glial cell differentiation and axonal network formation during neurogenesis. Promotes astrocyte differentiation and transforms cerebellar astrocytes into radial glia. Also induces axonal extension in small and intermediate neurons of sensory ganglia by activating nearby satellite glia.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR215466