

Product datasheet for **RR204658**

Metrn (NM_001009962) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Metrn (NM_001009962) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Metrn
Synonyms: Hyrac; RGD1306222
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR204658 representing NM_001009962
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGGTAGCGGCTTCTCTGCGCGTGTGCTGCGGCCTTTGGCTGCGTCCGCTCGAGCTGGCTACT
CCGAGGACCGCTGCAGCTGGAGGGCAGCGTTTGACCCAGGAACCTGGCAGCGTGGGGCAGCTGACCT
GGATTGTACTGAGGGTGTATCGAGTGGCTGTATCCAGCTGGGGCGCTGCGCCTGACTCTAGCGGCTCT
GATCCGGGCACGCGCCAGCATCGTCTGTCTGCGCCAAACAGGCCCTTCGCTGGTGCCAGGTCTTCG
CTGAACGGATGGCCGGCAACCTAGAGTTGCTACTGGCCGAAGGCCAAGGCCTGGCTGGGGCCGCTGCAT
GCGCTGGGGTCCCTCGCGAGCGCCGAGCCCTTTTCTGCGAGCCACGCCACCCGGGACATCAGCCGAGA
GTTGCTGCCTTCCAATTTGAAGTGCACGAGGACCAACGTGCAGAAATGTCTCCCGAGCCCAAGGTTTTG
GTGTGGATGGTGCCTGCAGGCCCTGCAGTATGCCGAGCTCCTTCTGACTGCATGCACCAGTGACTTTGT
GATCCATGGGACCATCCATGGGGTGCATGACATGGAGCTGCAAGAATCAGTCATCACTGTGGTGGCC
ACTCGTGTATCCGCCAGACACTGCCACTGTTCCAGGAAGGGAGCTCGGAGGGCCGGGGCCAGGCCCTCCG
TTCGTACCTTGTGCGCTGTGGTGTGCGTCTGGCCAGGCTCCTCCTTTCATGGGCTGGAGCCGATT
TGGCGAAGCTTGGCTGGGCTGCGCTCCCGCTTCCAAGAGTTCAGCCGTGTCTATTACAGTGTCTCTCGCG
GCCACCTCAACCATGTGAGGTGGCACTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR204658 representing NM_001009962
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MLVAALLCALCCGLLAASARAGYSEDRCSSWRGSGLTQEPGSGVQQLTLDCTEGAIEWLYPAGALRLTLGGS
 DPGTRPSIVCLRPTTRPFAQAQVFAERMAGNLELLLAEGQQLAGGRCMRWGPERRALFLQATPHRDISRR
 VAAFQFELHEDQRAEMSPQAQGFVDGACRPCSDAELLTACTSDFVIHGTIHGVVHDMELQESVITVVA
 TRVIRQTLPLFQEGSSEGRGQASVRTLLRCGVPRGPGSFLFMGWSRFGEAWLGCAPRFQEF SRVYSAALA
 AHLNPCEVALD

TRTRPLEQKLISEEDLANDILDYKDDDDKV

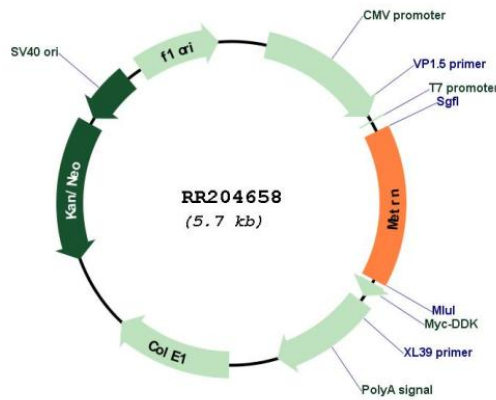
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001009962

ORF Size: 873 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:	<ol style="list-style-type: none">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_001009962.1 , NP_001009962.1
RefSeq Size:	924 bp
RefSeq ORF:	876 bp
Locus ID:	287151
UniProt ID:	Q5Q0T9
Cytogenetics:	10q12
MW:	31.4 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 (By similarity).[UniProtKB/Swiss-Prot Function]