

Product datasheet for RN204359

Metrnl (NM_001014104) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Metrnl (NM_001014104) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Metrnl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN204359 representing NM_001014104 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGGGTGTGGTGTGGGCGGCCCGGAGGCGCGGGGCGAGCAGTGGCCTCGGTCCCCGGGCCCTGGGC
CGGGTCCGCCCCCGCCGACCGCTGCTGTTGCTGCTACTGCTGCTGGGCGGCGGAGCGCGCAGTA
CTCCAGCGACCTGTGCAGCTGGAAGGGGAGTGGGCTCACCCGGGAGGCACACAGCAAGGAGGTGGAGCAG
GTGTACCTGCGCTGCTCAGCAGGCTCTGTGGAATGGATGTACCAACCGGGCGCTCATTGTTAACCTAC
GGCCCAACACCTTCTCACCTGCCAGAACTTGACTGTGTGCATCAAGCCTTTCAGGGACTCCTCTGGGGC
CAATATTTATTTGGAAAAAAGTGGAGAAGTAAAGTGTGGTGGCGGATGTGAGAGCGAACTGGCCAA
GTGCAGTGCTTCAGCCTAGAGCAGGGAGGCTTATTTGTGGAGGCCACACCCAGCAGGACATCAGCAGAA
GGACCACAGGCTTCCAGTATGAGCTGATGAGTGGGCGAGGGGACTGGACCTGCACGTGCTCTGCCCC
CTGTGACCTTGCAGCGACACTGAGGTCCTCCTTGCCATCTGCACCAGTGACTTTGTTGTCGAGGCTTC
ATCGAGGATGTCACCCATGTACCAGAACAGCAAGTGTGAGTCACTACCTACGGGTGAGCAGGCTCCACA
GGCAGAAGAGCAGGGTCTTCCAGCCAGCTCCTGAGGACAGTGGCCACTGGCTGGGCCATGCACAACACT
GTTGCAGTGTGGAGTACGACCAGGGCATGGAGAATTCCTTCACTGGACATGTGCACTTTGGGGAGGCA
CAACTTGGATGTCCCCACGCTTAACTGACTTTCAAAGATGTACAGGAAAGCAGAAGAAAGGGGCATAA
ACCTTGTGAAATAAATATGGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001014104
Insert Size:	936 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001014104.1</u> , <u>NP_001014126.1</u>
RefSeq Size:	1380 bp
RefSeq ORF:	936 bp
Locus ID:	316842
UniProt ID:	<u>Q5RIL6</u>
Cytogenetics:	10q32.3
Gene Summary:	Hormone induced following exercise or cold exposure that promotes energy expenditure. Induced either in the skeletal muscle after exercise or in adipose tissue following cold exposure and is present in the circulation. Able to stimulate energy expenditure associated with the browning of the white fat depots and improves glucose tolerance. Does not promote an increase in a thermogenic gene program via direct action on adipocytes, but acts by stimulating several immune cell subtypes to enter the adipose tissue and activate their prothermogenic actions. Stimulates an eosinophil-dependent increase in IL4 expression and promotes alternative activation of adipose tissue macrophages, which are required for the increased expression of the thermogenic and anti-inflammatory gene programs in fat. Required for some cold-induced thermogenic responses, suggesting a role in metabolic adaptations to cold temperatures (By similarity).[UniProtKB/Swiss-Prot Function]