

Product datasheet for MC202114

Metrnl (NM_144797) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Metrnl (NM_144797) Mouse Untagged Clone
Tag: Tag Free
Symbol: Metrnl
Synonyms: 9430048M07Rik; BC019776
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC024445 sequence for NM_144797
 GGAAC TTGCCAGCTCAGAGGTTCTAGGGGCAGCCGGCGCCTTCTAGTTGCAGCTTGGCGGCTCCTG
 TGGTGGCGGCTAGGGGCGAGCCGGATGGCTATAGACGCGCAGCTGATCAGTTGCGACGCGGACCCA
 CGCCTCCCATCGCTCTGCCTCAAGAGCCTATTCTGTGGGTGCAGGCACGCACCGGACGCAGACCCGGCCG
 GAGCATGCGGGGTGCGGTGTGGCGGCCCGGAGGCGCGGGGAGCAGTGGCCTCGGTCCCGGGCCCT
 GGGCCGGTCCGCCCGCCGCCACCGCTGCTGTTGCTGCTACTACTGCTGCTGGCGGCGCAGCGCTC
 AGTACTCCAGCGACCTGTGCAGCTGGAAGGGAGTGGGCTCACCCGAGAGGCACGCAGCAAGGAGGTGGA
 GCAGGTGTACCTGCGCTGCTCCGAGGCTCTGTGGAGTGGATGTACCCAAGTGGGCGCTCATTGTTAAC
 CTACGGCCCAACACCTTCTCACCTGCCAGAAGTGTGACTGTGTGCATCAAGCCTTTCAGGGACTCCTCTG
 GAGCCAATATTTATTTGAAAAAACTGGAGAAGTAAAGTGTGGTGGCGGACATCAGAGGTGAGCCTGG
 CCAAGTGCAGTGTTCAGCCTGGAGCAGGGAGGCTTATTTGTGGAGGCGACCCCAACAGGACATCAGC
 AGAAGGACCACAGGCTTCCAGTATGAGCTGATGAGTGGGCGAGGGGACTGGACCTGCACGTGCTGTCTG
 CCCCTGTGCGCCTTGCAGTGACACTGAGGTCCTCCTTGCCATCTGTACCAAGTACTTTGTTGTCCGAGG
 CTTCAATTGAGGACGTACACATGTACCAGAACAGCAAGTGTGAGTGTGATCTACCTGCGGGTGAACAGGCTT
 CACAGGCAGAAGAGCAGGGTCTTCCAGCCAGCTCCTGAGGACAGTGGCCACTGGCTGGGCCATGTCACAA
 CACTGCTGCAGTGTGGAGTACGACCAGGGCATGGGGAATTCCTCTTCACTGGACATGTGCACTTTGGGGA
 GGCACAACCTGGATGTGCCCCACGCTTTAGTGACTTTCAAAGGATGTACAGGAAAGCAGAAGAAATGGGC
 ATAAACCCTGTGAAATCAATATGGAGTGACTTGCAGGGTACACAGTACTGTTGTCCTTCAGATGAGCC
 GGTGCTAGAAGTGGGAAGGTACATGCTGCTGACCCCTTAGGTCCCAGCCAAGGATGCCCTGACCCATT
 GGAAGTGTGTAAGTAACTAAGTTATTATATTTTTTTTGTAAAAGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_144797
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:	BC024445 , AAH24445
RefSeq Size:	1396 bp
RefSeq ORF:	936 bp
Locus ID:	210029
UniProt ID:	Q8VE43
Cytogenetics:	11 E2
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.[UniProtKB/Swiss-Prot Function]