GORǏGene
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## Product datasheet for RR204359L3

## Metrnl (NM_001014104) Rat Tagged Lenti ORF Clone

## Product data:

Product Type:
Product Name:

## Tag:

Symbol:
Mammalian Cell
Selection:
Vector:
E. coli Selection:

ORF Nucleotide
Sequence:
Restriction Sites:
Cloning Scheme:

Expression Plasmids
Metrnl (NM_001014104) Rat Tagged Lenti ORF Clone
Myc-DDK
Metrnl
Puromycin
pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Chloramphenicol ( $34 \mathrm{ug} / \mathrm{mL}$ )
The ORF insert of this clone is exactly the same as(RR204359).

Sgfl-Mlul

## Plasmid Map:



## ACCN:

ORF Size:
OTI Disclaimer:
NM_001014104
933 bp
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:

Components:

Reconstitution Method:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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).

1. Centrifuge at $5,000 \times g$ for 5 min .
2. Carefully open the tube and add 100 ul 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 5000 xg ) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at $-20^{\circ} \mathrm{C}$. The DNA is stable for at least one year from date of shipping when stored at $-20^{\circ} \mathrm{C}$.

## RefSeq:

RefSeq Size:

NM 001014104.1 NP 001014126.1
1380 bp

| RefSeq ORF: | 936 bp <br> Locus ID: <br> UniProt ID: <br> Cytogenetics: <br> Gene Summary:$\quad$316842 <br> Q5RJL6 |
| :--- | :--- |
|  | Hoq32.3 <br> Induced either in the skeletal muscle after exercise or in adipose tissue following cold <br> exposure and is present in the circulation. Able to stimulate energy expenditure associated <br> with the browning of the white fat depots and improves glucose tolerance. Does not promote <br> an increase in a thermogenic gene program via direct action on adipocytes, but acts by <br> stimulating several immune cell subtypes to enter the adipose tissue and activate their <br> prothermogenic actions. Stimulates an eosinophil-dependent increase in IL4 expression and <br> promotes alternative activation of adipose tissue macrophages, which are required for the <br> increased expression of the thermogenic and anti-inflammatory gene programs in fat. <br> Required for some cold-induced thermogenic responses, suggesting a role in metabolic <br> adaptations to cold temperatures (By similarity).[UniProtKB/Swiss-Prot Function] |

