

Product datasheet for **MR228326**

Mup18 (NM_001199333) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mup18 (NM_001199333) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mup18
Synonyms: 100039228; Gm12561; Mup6; Mup9; Mup16; OTTMUSG00000007486
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR228326 representing NM_001199333
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGAAGATGCTGCTGCTGCTGCTGCTGCTGTTTGGGACTGACCCTAGTCTGTGTCCATGCAGAAGAAGCTAGTT
 CTACGGGAAGGAACCTTTAATGTAGAAAAGATTAATGGGAATGGCATACTATTATCCTGGCCTCTGACAA
 AAGAGAAAAGATAGAAGATAATGGCAACTTTAGACTTTTTCTGGAGCAAATCCATGTCTTGGAGAATTCC
 TTAGTTCTTAAATTCATACTGTAAGAGATGAAGAGTGCTCCGAATTATCTATGGTTGCTGACAAAACAG
 AAAAGGCTGGTGAATATTCTGTGACGTATGATGGATTCAATACATTTACTATACCTAAGACAGACTATGA
 TAACTTTCTTATGGCTCATCTCATTAAACGAAAAGGATGGGGAAACCTTCCAGCTGATGGGCTCTATGGC
 CGAGAACCAGATTTGAGTTCAGACATCAAGGAAAGGTTTGCACAACTATGTGAGGAGCATGGAATCCTTA
 GAGAAAATATCATTGACCTATCCAATGCCAATCGCTGCCTCCAGGCCCGAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228326 representing NM_001199333
Red=Cloning site Green=Tags(s)

MKMLLLLLLCLGLTLVCVHAEASSTGRNFNVEKINGEWHTIILASDKREKIEDNGNFRFLFLEQIHVLENS
 LVLKFHTVRDEECSELSMVDKTEKAGEYSVTYDGFNTFTIPKTDYDNFLMAHLIN EKDGETFQLMGLYG
 REPDLSDDIKERFAQLCEEHGILRENIIDL SNANRCLQARE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_001199333

ORF Size: 543 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001199333.1](#), [NP_001186262.1](#)

RefSeq Size: 888 bp

RefSeq ORF: 546 bp

Locus ID: 100048884

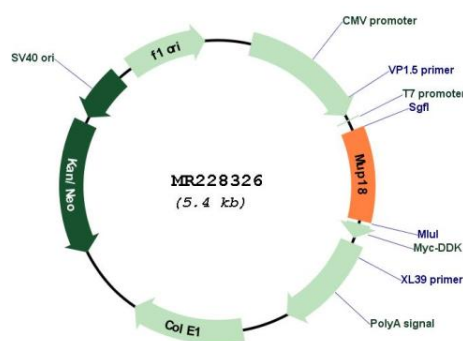
UniProt ID: [P04938](#)

Cytogenetics: 4 B3

MW: 21.2 kDa

Gene Summary: Major urinary proteins (Mups) bind pheromones, and thus stabilize them to allow slow release into the air from urine marks. May protect pheromones from oxidation. May also act as pheromones themselves. In this context, they play a role in the regulation of social behaviors, such as aggression, mating, pup-suckling, territory establishment and dominance (Probable). Binds the pheromone analog 2-sec-butyl-4,5-dihydrothiazole (SBT) in vitro (PubMed:25279835).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228326