

Product datasheet for MR211430L4

Mov10 (NM_001163441) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Mov10 (NM_001163441) Mouse Tagged Lenti ORF Clone

Tag: mGFP Symbol: Mov10

Synonyms: C77703; Mov-10

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

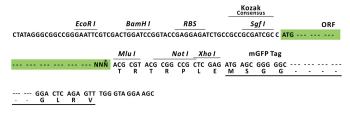
ORF Nucleotide The ORF insert of this clone is exactly the same as(MR211430).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001163441

ORF Size: 3012 bp



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Mov10 (NM_001163441) Mouse Tagged Lenti ORF Clone - MR211430L4

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.

RefSeq: <u>NM 001163441.1</u>, <u>NP 001156913.1</u>

 RefSeq Size:
 3515 bp

 RefSeq ORF:
 3015 bp

 Locus ID:
 17454

 UniProt ID:
 P23249

 Cytogenetics:
 3 F2.2

Gene Summary: Probable RNA helicase. Required for miRNA-mediated gene silencing by the RNA-induced

silencing complex (RISC). Required for both miRNA-mediated translational repression and miRNA-mediated cleavage of complementary mRNAs by RISC (By similarity). In cooperation with FMR1, regulates miRNA-mediated translational repression by AGO2 (By similarity). Restricts retrotransposition of long interspersed element-1 (LINE-1) in cooperation with TUT4 and TUT7 counteracting the RNA chaperonne activity of L1RE1. Facilitates LINE-1 uridylation by TUT4 and TUT7 (By similarity). Required for embryonic viability and for normal central

nervous system development and function. Plays two critical roles in early brain

development: suppresses retroelements in the nucleus by directly inhibiting cDNA synthesis,

while regulates cytoskeletal mRNAs to influence neurite outgrowth in the cytosol

(PubMed:28662698). May function as a messenger ribonucleoprotein (mRNP) clearance factor

(By similarity).[UniProtKB/Swiss-Prot Function]