

Product datasheet for MR223821L2

OriGene Technologies, Inc.

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Gm7325 (Mymx) (NM_001177469) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Gm7325 (Mymx) (NM_001177469) Mouse Tagged Lenti ORF Clone

Tag: mGFP Symbol: Mymx

Synonyms: EG653016; Esgp; Gm7325; minion; myomerger

Mammalian Cell None

Selection:

Vector: pLenti-C-mGFP (PS100071)

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

ORF Nucleotide

The ORF insert of this clone is exactly the same as(MR223821).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_001177469

ORF Size: 252 bp



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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 001177469.1</u>, <u>NP 001170940.1</u>

RefSeq Size: 811 bp
RefSeq ORF: 255 bp
Locus ID: 653016
UniProt ID: Q2Q5T5
Cytogenetics: 17 B3

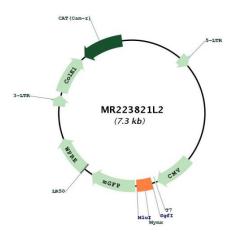
Gene Summary: Myoblast-specific protein that mediates myoblast fusion, an essential step for the formation

of multi-nucleated muscle fibers (PubMed:28386024, PubMed:28569745, PubMed:28569755, PubMed:30197239). Involved in membrane fusion downstream of the lipid mixing step mediated by MYMK (PubMed:30197239). Acts by generating membrane stresses via its extracellular C-terminus, leading to drive fusion pore formation (PubMed:30197239). Acts independently of MYMK (PubMed:30197239). Involved in skeletal muscle regeneration in response to injury by mediating the fusion of satellite cells, a population of muscle stem cells,

with injured myofibers (PubMed:29581287).[UniProtKB/Swiss-Prot Function]



Product images:



Circular map for MR223821L2