

Product datasheet for MR210486L3

Mapk7 (NM_011841) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Mapk7 (NM_011841) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Mapk7

Synonyms: BMK-1; BMK1; ERK-5; ERK5; Erk5-T; PRKM7

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

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

ORF Nucleotide The ORF insert of this clone is exactly the same as(MR210486).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_011841

ORF Size: 2418 bp



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Mapk7 (NM_011841) Mouse Tagged Lenti ORF Clone - MR210486L3

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 011841.1</u>, <u>NP 035971.1</u>

 RefSeq Size:
 2945 bp

 RefSeq ORF:
 2421 bp

 Locus ID:
 23939

 UniProt ID:
 Q9WVS8

 Cytogenetics:
 11 B2

Gene Summary: Plays a role in various cellular processes such as proliferation, differentiation and cell survival.

The upstream activator of MAPK7 is the MAPK kinase MAP2K5. Upon activation, it translocates

to the nucleus and phosphorylates various downstream targets including MEF2C. EGF activates MAPK7 through a Ras-independent and MAP2K5-dependent pathway. May have a

role in muscle cell differentiation. May be important for endothelial function and

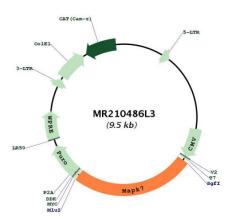
maintenance of blood vessel integrity. MAP2K5 and MAPK7 interact specifically with one another and not with MEK1/ERK1 or MEK2/ERK2 pathways. Phosphorylates SGK1 at Ser-78 and this is required for growth factor-induced cell cycle progression (By similarity). Involved in

the regulation of p53/TP53 by disrupting the PML-MDM2 interaction (By similarity).

[UniProtKB/Swiss-Prot Function]



Product images:



Circular map for MR210486L3