

Product datasheet for MR210693L3

Furin (NM_001081454) Mouse Tagged Lenti ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Furin (NM_001081454) Mouse Tagged Lenti ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Furin |
| Synonyms: | 9130404I01Rik; Fu; Fur; PA; PACE; Pcs; Pcsk3; SP; SPC1 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| E. coli Selection: | Chloramphenicol (34 ug/mL) |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(MR210693). |
| Restriction Sites: | SgfI-MluI |
| Cloning Scheme: | |

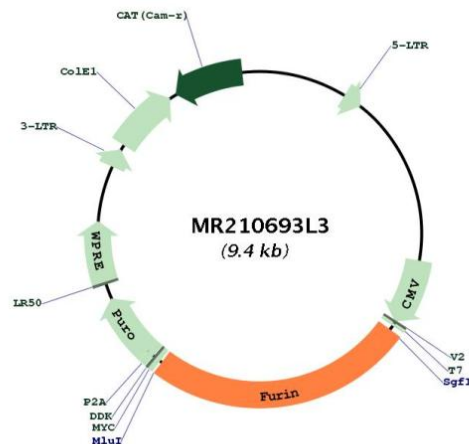
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF.



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Plasmid Map:


ACCN: NM_001081454

ORF Size: 2379 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.

RefSeq: [NM_001081454.1](#)

RefSeq Size: 4166 bp

RefSeq ORF: 2382 bp

Locus ID: 18550

UniProt ID: [P23188](#)

Cytogenetics: 7 45.65 cM

Gene Summary: This gene encodes a calcium-dependent serine endoprotease that proteolytically activates different proprotein substrates traversing the secretory pathway. The encoded protein undergoes proteolytic autoactivation during which an N-terminal propeptide is cleaved to generate the mature protein. Mice lacking the encoded protein die at an embryonic stage and display hemodynamic insufficiency, cardiac ventral closure defect, axial rotation defect and abnormal yolk sac vasculature. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]