

Product datasheet for **MC202300**

Furin (NM_001081454) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Furin (NM_001081454) Mouse Untagged Clone
Tag: Tag Free
Symbol: Furin
Synonyms: 9130404I01Rik; Fu; Fur; PA; PACE; Pcs; Pcsk3; SP; SPC1
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC048234 sequence for NM_001081454
 GCCCCGGGACCCTGGCACTGAGCAGGCACGTGGCAGCCAAGGCCCTGTGACCAGGCCAGGGAGACAGGCC
 CTCTGGGGTTCAGTCACCTGCCCCCATGGAGCTGAGATCCTGGTTGCTATGGGTGGTCGACAGCAGCA
 GGAGCCGTGGTCCCTGCTGGCAGCTGATGCTCAAGGCCAGAAGATCTTACCAACACCTGGGCCGTGCACA
 TTCTGGAGGCCAGCTGTGGCTGATAGGGTGGCGCAGAAGCATGGCTTCCACAACCTGGGCCAGATCTT
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CCCGAGGGGCTCTACACCTCCAGAAAGCAGCGGCTGCAAGACCCTCACATCCAGCCAGGCCTGCGTGG
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CCAAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** RsrII-NotI
- ACCN:** NM_001081454
- Insert Size:** 2382 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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: [BC048234](#), [AAH48234](#)

RefSeq Size: 4017 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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.