

Product datasheet for **MC228946**

Furin (NM_011046) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Furin (NM_011046) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Furin
Synonyms:	9130404I01Rik; Fu; Fur; PA; PACE; Pcs; Pcsk3; SP; SPC1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228946 representing NM_011046
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTGAGATCCTGGTTGCTATGGGTGGTTCGAGCAGCAGGAGCCGTGGTCTGCTGGCAGCTGATG
 CTAAGGCCAGAAGATCTTCACCAACACCTGGGCCGTGCACATTCCTGGAGGCCAGCTGTGGCTGATAG
 GGTGGCGCAGAAGCATGGCTTCCACAACCTGGGCCAGATCTTCGGTGACTATTACCACTTCTGGCACAGA
 GCAGTGACAAAGCGGTCCCTGTCGCTCACCGCCCGGGCACAGCCGGCTACAGAGGGAGCCTCAAGTAA
 AGTGGCTGGAGCAGCAGGTAGCCAAGCGAAGAGCCAAGAGGGACGTGTATCAGGAGCCCACGGACCCCAA
 GTTCCCCAGCAGTGGTACCTGTCTGGTGTCACTCAGCGAGACCTGAATGTGAAGGAGCCTGGGCCAG
 GGCTTACAGGCCATGGCATTGGTCTCCATCCTGGATGACGGCATTGAGAAGAATCATCCCGACCTAG
 CAGGCAATTATGACCCTGGAGCCAGTTTACGCTGAATGACCAGGACCCGACCCACAGCCTCGGTACAC
 ACAGATGAATGACAACAGGCATGGCACTCGCTGTGCCGGGAAGTGGCAGCAGTGGCCAACAATGGTGTG
 TGTGGCGTAGGTGTAGCTTACAATGCCCAATGGAGGGGTGCGGATGTTGGATGGCGAGGTGACTGATG
 CAGTAGAGGCACGTTTCGCTGGGCCTGAATCCCAACCACATCCACATCTACAGCGCCAGCTGGGGCCCTGA
 GGACGACGGCAAGACCGTGGATGGACCAGCCCGGCTCGCTGAGGAGGCCCTTTTCGGGGAGTTAGCCAG
 GGCCGAGGAGGGCTGGGCTCCATCTTTGTCTGGGCCTCAGGGAATGGGGGCCGGGAACATGACAGCTGCA
 ACTGTGACGGCTACACCAACAGCATCTATACACTGTCCATCAGCAGCGCCACACAGTTCCGGCAATGTGCC
 CTGGTACAGTGAAGCCTGCTCCTCCACTGGCCACCCTACAGCAGCGGCAACCAGAATGAGAAGCAG
 ATCGTGACAACACTGACCTGAGGCAGAAGTGCACAGAATCTCACACAGGCACCTCGGCTTCTGCCCTTGG
 CAGCTGGTATCATTGCTCACCTCGGAGGCCAACAAGAACCTCACCTGGCGGGACATGCAGCAGCTGGT
 AGTGCAGACCTCAAAGCCAGCCACCTCAACGCTGATGATTGGGCTACCAACGGCGTGGCCGGAAAGTG
 AGCCATTCGTATGGCTACGGGCTGTTGGATGCAGGTGCCATGGTGGCTCTGGCCAGAAGTGGACAACAG
 TGGCCCCCAGCGGAAGTGCATTGTTGAAATCCTGGTGAACCCAAGGACATCGGCAACCGCTAGAGGT
 GCGCAAGGCGGTGACAGCATGCCTGGGTGAGCCCAACCACATCACCAGGCTGGAACACGTTCCAGGCCGG
 CTCACCCTGTCTTACAATCGCCGCGGTGACCTGGCTATCCACCTCATCAGCCCCATGGGCACCCGCTCCA
 CCCTGTTAGCTGCCAGACCACATGACTACTCTGCTGATGGGTTTAAATGATTGGGCTTTCATGACAACCCA
 TTCTGGGATGAGGATCCGGCTGGCGAATGGGTCTAGAGATTGAAAATACCAGTGAAGCCAACAACAT
 GGGACGCTGACCAAGTTCCTCTCGTTCTGTATGGCACAGCCCCGAGGGGCTCTTACACCTCCAGAAA
 GCAGCGGCTGCAAGACCCTCACATCCAGCCAGGCTGCGTGGTGTGTGAGGAAGTTACTCTCTGCCACCA
 GAAAAGCTGTGTCCAGCACTGCCACCAGGCTTATCCCCAAGTCTTGATACACACTACAGCACTGAG
 AATGATGTGGAGATCATCCGTGCCAGCGTCTGTACCCCTGCCACGCCTCATGTGCCACTTGCCAGGGCC
 CGGCCCCACAGACTGCCTCAGCTGCCCGACCATGCCTCCCTGGACCCAGTGGAGCAGACCTGCTCCC
 GCAAAGCCAGAGCAGCCGGGAGTCTCGGCCTCAGCAGCAGCCTCCTGCACTGCGCCCTGAGGTGGAGATG
 GAGCCCCGGTGCAGGCTGGGTGGCCTCTCACCTGCCGAGGCTCCTGGCCGGCTCAGCTGCCTTATCA
 TCGTGTCTATCTTTGGCATCGTCTTCTGTTCTGCATCGGTGTTCGGGCTTTCAGCTTCCGGGGAGTGAA
 AGTGTACACCATGGACCGGGCCTCATCTCCTACAAGGGGCTGCCCTGAAGCCTGGCAGGAGGATGC
 CCATCGGACTCAGAGGAGGACGAGGGCCGGGCGAGAGGACCGCCTTATCAAAGACCAGAGCGCCCTTT
 GA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_011046
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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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_011046.3 , NP_035176.1
RefSeq Size:	4336 bp
RefSeq ORF:	2382 bp
Locus ID:	18550
UniProt ID:	P23188
Cytogenetics:	7 45.65 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. 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.</p>