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Product datasheet for SC337474

FURIN (NM_001289824) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FURIN (NM_001289824) Human Untagged Clone
Tag:	Tag Free
Symbol:	FURIN
Synonyms:	FUR; PACE; PCSK3; SPC1
Vector:	pCMV6 series

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001289824, the custom clone sequence may differ by one or more nucleotides

ATGGAGCTGAGGCCCTGGTTGCTATGGGTGGTAGCAGCAACAGGAACCTTGGTCCTGCTAGCAGCTGATG
CTCAGGGCCAGAAGGTCTTCACCAACACGTGGGCTGTGCGCATCCCTGGAGGCCCAGCGGTGGCCAACAG
TGTGGCACGGAAGCATGGGTTCCTCAACCTGGGCCAGATCTTCGGGGACTATTACCACTTCTGGCATCGA
GGAGTGACGAAGCGGTCCCTGTCGCCTCACCGCCCGCGGCACAGCCGGCTGCAGAGGGAGCCTCAAGTAC
AGTGGCTGGAACAGCAGGTGGCAAAGCGACGGACTAAACGGGACGTGTACCAGGAGCCCACAGACCCCAA
GTTTCCTCAGCAGTGGTACCTGTCTGGTGTCACTCAGCGGGACCTGAATGTGAAGGCGGCCTGGGCGCAG
GGCTACACAGGGCACGGCATTGTGGTCTCCATTCTGGACGATGGCATCGAGAAGAACCACCCGGACTTGG
CAGGCAATTATGATCCTGGGGCCAGTTTTGATGTCAATGACCAGGACCCTGACCCCCAGCCTCGGTACAC
ACAGATGAATGACAACAGGCACGGCACACGGTGTGCGGGGGAAGTGGCTGCGGTGGCCAACAACGGTGTC
TGTGGTGTAGGTGTGGCCTACAACGCCCGCATTGGAGGGGTGCGCATGCTGGATGGCGAGGTGACAGATG
CAGTGGAGGCACGCTCGCTGGGCCTGAACCCCAACCACATCCACATCTACAGTGCCAGCTGGGGCCCCGA
GGATGACGGCAAGACAGTGGATGGGCCAGCCCGCCTCGCCGAGGAGGCCTTCTTCCGTGGGGTTAGCCAG
GGCCGAGGGGGGCTGGGCTCCATCTTTGTCTGGGCCTCGGGGAACGGGGGCCGGGAACATGACAGCTGCA
ACTGCGACGGCTACACCAACAGTATCTACACGCTGTCCATCAGCAGCGCCACGCAGTTTGGCAACGTGCC
GTGGTACAGCGAGGCCTGCTCGTCCACACTGGCCACGACCTACAGCAGTGGCAACCAGAATGAGAAGCAG
ATCGTGACGACTGACTTGCGGCAGAAGTGCACGGAGTCTCACACGGGCACCTCAGCCTCTGCCCCCTTAG
CAGCCGGCATCATTGCTCTCACCCTGGAGGCCAATAAGAACCTCACATGGCGGGACATGCAACACCTGGT
GGTACAGACCTCGAAGCCAGCCCACCTCAATGCCAACGACTGGGCCACCAATGGTGTGGGCCGGAAAGTG
AGCCACTCATATGGCTACGGGCTTTTGGACGCAGGCGCCATGGTGGCCCTGGCCCAGAATTGGACCACAG
TGGCCCCCCAGCGGAAGTGCATCATCGACATCCTCACCGAGCCCAAAGACATCGGGAAACGGCTCGAGGT
GCGGAAGACCGTGACCGCGTGCCTGGGCGAGCCCAACCACATCACTCGGCTGGAGCACGCTCAGGCGCGG
CTCACCCTGTCCTATAATCGCCGTGGCGACCTGGCCATCCACCTGGTCAGCCCCATGGGCACCCGCTCCA
CCCTGCTGGCAGCCAGGCCACATGACTACTCCGCAGATGGGTTTAATGACTGGGCCTTCATGACAACTCA
TTCCTGGGATGAGGATCCCTCTGGCGAGTGGGTCCTAGAGATTGAAAACACCAGCGAAGCCAACAACTAT
GGGACGCTGACCAAGTTCACCCTCGTACTCTATGGCACCGCCCCTGAGGGGCTGCCCGTACCTCCAGAAA
GCAGTGGCTGCAAGACCCTCACGTCCAGTCAGGCCTGTGTGGTGTGCGAGGAAGGCTTCTCCCTGCACCA
GAAGAGCTGTGTCCAGCACTGCCCTCCAGGGTTCGCCCCCCAAGTCCTCGATACGCACTATAGCACCGAG
AATGACGTGGAGACCATCCGGGCCAGCGTCTGCGCCCCCTGCCACGCCTCATGTGCCACATGCCAGGGGC
CGGCCCTGACAGACTGCCTCAGCTGCCCCAGCCACGCCTCCTTGGACCCTGTGGAGCAGACTTGCTCCCG
GCAAAGCCAGAGCAGCCGAGAGTCCCCGCCACAGCAGCAGCCACCTCGGCTGCCCCCGGAGGTGGAGGCG
GGGCAACGGCTGCGGGCAGGGCTGCTGCCCTCACACCTGCCTGAGGTGGTGGCCGGCCTCAGCTGCGCCT
TCATCGTGCTGGTCTTCGTCACTGTCTTCCTGGTCCTGCAGCTGCGCTCTGGCTTTAGTTTTCGGGGGGT
GAAGGTGTACACCATGGACCGTGGCCTCATCTCCTACAAGGGGCTGCCCCCTGAAGCCTGGCAGGAGGAG
TGCCCGTCTGACTCAGAAGAGGACGAGGGCCGGGGCGAGAGGACCGCCTTTATCAAAGACCAGAGCGCCC
TCTGA

Restriction Sites: SgfI-MluI

ACCN: NM_001289824

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:	NM_001289824.1, NP_001276753.1
RefSeq Size:	4352 bp
RefSeq ORF:	2385 bp
Locus ID:	5045
UniProt ID:	P09958
Cytogenetics:	15q26.1
Protein Families:	Druggable Genome, Protease, Transmembrane
Gene Summary:	This gene encodes a member of the subtilisin-like proprotein convertase family, which includes proteases that process protein and peptide precursors trafficking through regulated or constitutive branches of the secretory pathway. It encodes a type 1 membrane bound protease that is expressed in many tissues, including neuroendocrine, liver, gut, and brain. The encoded protein undergoes an initial autocatalytic processing event in the ER and then sorts to the trans-Golgi network through endosomes where a second autocatalytic event takes place and the catalytic activity is acquired. Like other members of this convertase family, the product of this gene specifically cleaves substrates at single or paired basic residues. Some of its substrates include proparathyroid hormone, transforming growth factor beta 1 precursor, proalbumin, pro-beta-secretase, membrane type-1 matrix metalloproteinase, beta subunit of pro-nerve growth factor and von Willebrand factor. It is thought to be one of the proteases responsible for the activation of HIV envelope glycoproteins gp160 and gp140, and may play a role in tumor progression. Unlike SARS-CoV and other coronaviruses, the spike protein of SARS-CoV-2 is thought to be uniquely cleaved by this protease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2020] Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 1. Variants 1, 2, and 3 encode the same protein.