

Product datasheet for **RC239804**

CORIN (NM_001278585) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CORIN (NM_001278585) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CORIN
Synonyms:	ATC2; CRN; Lrp4; PEE5; TMPRSS10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide
Sequence:**

>RC239804 representing NM_001278585
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAACAGTCTCCTGCCCTCGCTCCGGAAGAGCGCTGCCGCAGAGCCGGTCCCAAAGCCGGTCTTGA
 GAGCTGATGACAATAACATGGGCAATGGCTGCTCTCAGAAGCTGGCGACTGCTAACCTCCTCCGGTTCCT
 ATTGCTGGTCTGATTCCATGTATCTGTGCTCTCGTTCTCTTGCTGGTGATCCTGCTTTCATGTTGGT
 GCCTGTATGAACATCACCCACAGCCAGTGTGAGATGCTGCCCTACCACGCCACGCTGACACCTCTCCTCT
 CAGTTGTCAGAAACATGGAAATGGAAAAGTTCTCAAGTTTTTCACATATCTCCATCGCCTCAGTTGCTA
 TCAACATATCATGCTGTTGGCTGTACCCTCGCCTTCCCTGAGTGCATCATTGATGGCGATGACAGTCAT
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 AATTTGCTTCTCACCTCAGCAGGAAAACGAAAGCAATTGCTCTGTGGAAGGGGTGAGAATTTCTGTGT
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 AGGCTCATTGCAACTGCAGCGAGAATCTGTTTCACTGTACACAGGCAAGTGCCTTAATTACAGCCTTGT
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 CCTTCTCCTAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239804 representing NM_001278585
 Red=Cloning site Green=Tags(s)

MKQSPALAPEERCRRAGSPKPVLRADDNNMNGGCSQKLATANLLRFLLLVLIIPCICALVLLLVIILLSYVG
 ACMNITHSQCQMLPYHATLTPLLSVVRNMEMEKFLKFFTYLHRLSCYQHIMLFGCTLAFPECIDGDDSH
 GLLPCRSECEAAKEGCESVLGMVNYSWPDLRCSQFRNQTESSNVSRICFSPQQENKQLLCGRGENFLC
 ASGICIPGKLCQNGYNDCCDDWSDEAHCNCSENLFHCHTGKCLNYSLVCDGYDDCDDLDEQNCACHSQGL
 VECRNGQCIPSTFQCDDGDEDCKDGSDEENCSVIQTSCQEGDQRCLYNPCLDSCGGSSLCDPNNSLNCSQ
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 HACVSRDLWCDGEADCSDSSDEWDCVTLINVNSSSFLMVHRAATEHHVCADGWQEILSQLACKQMLGGE
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 GRTSRPGRWPQCSLQSEPSGHICGCVLIAKKWVLTVAHCFEGRENAAVKVVVLGINNLDHPSVFMQTRF
 VKTIILHPRYSRAVVDYDISIVELSEDISETGYVRPCLPNPEQWLEPDTYCYITGWGHMGNKMPFKLQE
 GEVRIISLEHCQSYFDMKTITTRMICAGYESGTVDSMGDSSGGPLVCEKPGGRWTLFGLTSWGSVCF SKY
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

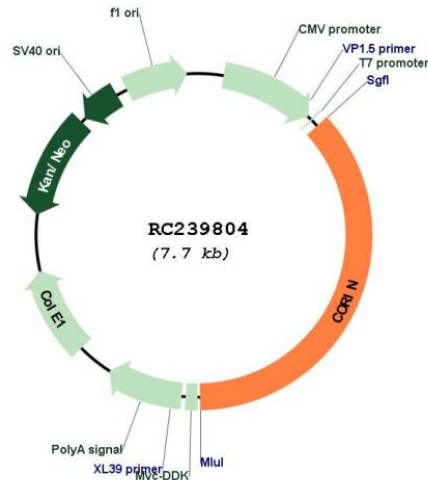
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278585

ORF Size: 2814 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_001278585.1](#), [NP_001265514.1](#)

RefSeq Size: 4703 bp

RefSeq ORF: 2817 bp

Locus ID: 10699

UniProt ID: [Q9Y5Q5](#)

Cytogenetics: 4p12

Protein Families: Druggable Genome, Protease, Transmembrane

MW: 105.6 kDa

Gene Summary: This gene encodes a member of the type II transmembrane serine protease class of the trypsin superfamily. Members of this family are composed of multiple structurally distinct domains. The encoded protein converts pro-atrial natriuretic peptide to biologically active atrial natriuretic peptide, a cardiac hormone that regulates blood volume and pressure. This protein may also function as a pro-brain-type natriuretic peptide convertase. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2013]