

Product datasheet for RR213739

Corin (NM_182473) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Corin (NM_182473) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Corin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213739 representing NM_182473 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGGCAGGGTTTCTTTCAACGTTCCGGTTCAGCTCTGTGAGGAGAGCCCCGCTGCTCTTGTCTGGGCGAT
GCTACCTGTCTGCAGAGTCCCTCCAACCACCGCCCTCCATGCACTGAACGGGTTTGGCCGCGGGGGT
TCTGGGGAGACTGCAGGTGGAACCGTCCGACTCGGCCCTCGGGGACCGTGGCTTCTCTCCGGTCC
AAGTTCAGGCTTCGGGAGCTTGAAGATTGCTTTGGAGCCCCGCTGCTCCAGAGCTTGTAGAGCAG
ACAGCAGCGTGGGCGAGGGCTGTCTCAGAAGCTGGTGACAGCAAATTTGCTACGCTTCTCTGCTTGT
GCTCATCCCTGCATCTGCGCCCTTATCGTGCTGCTGGCCATCCTGCTGTCTTGTGGGAACATTAAG
AAGTTTTATTTCAAATCAAATGACAGTGAACCTTTGGTCACTGATGGTGAAGTTCGAGTGCCTGGTGT
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ACCTAGAGCTCCTTCTCTAGAGGACCAGAGTACGGAAATACAAGCACCTGCGTGAACATCACTCACAGA
CAGTGTCAAATTCGCCCTACCACAGCAGCTGGCACCCTCTTGCCAATTGTCAAAAATATGGACACGG
AGAAGTTCCTCAAGTTCTTACGTACCTCCATCGCTCGGTTGCTATCAACACATCCTGCTTTGGCTG
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ACATTATCCAATTACCTTGGCCACAGAAGTCAAAGGAAGCGTCCATCAGCTGGGAGTCAGCTCTCTTC



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CCTGCCCTGTACAAACCAACTGTTACAAATACCTCATGTTTTTCGCTTGACCATTTTGGTTCCAAAGT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence:

>RR213739 representing NM_182473

Red=Cloning site Green=Tags(s)

MGRVSNFNRVSSVRRARCSPGRCYLSCRVPPTALHALNGFGRAGVLGETAGGTVGLGPSGTRGFLSGS
 KFQASGLKDCFAGAPPAPDVLRADSSVGEVGPQKLVANLLRFLLLVLPICICALIVLLAILLSFVGTLLK
 KYVFKSNDSEPLVTDGEVVRPGVIHVNRYENTGAPSMSPSQSIPAWTPRAPSLEDQSHGNTSTCVNITHR
 QCQILPYHSTLAPLLPIVKNMDEKFLKFFTYLHRLGQYQHILLFGCSLAFPKCIVDGGDRHGLLPCRFS
 CEAAKEGCEVLMVNSSWPDSLRCQFRYHTENNSDASTICFSLQQEHGKQSLCGGSESFLCTSGLCIS
 KKLQCNQYNDCCDWSDEAHCNCSIDL FHCCTGKCLHSLVCDGYDDCGDL SDEQNCDCNL TKEHRCGDGR
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 SDNQTCLLPNEDVEECSPSHFKCRSGRCVLSRRCDGQADCCDDSDSDEENCGCKERDLWECPLNKQCLKHT
 LICDGFDPDCSDMDEKNCSCQDDELECANHECVPRDLWCDGWDCSDSDEWGCVTLSKNGNSSSFLTV
 HRSARDHHVCADGWQETLSQLACRQMGLEPSTVTELVQGEQQLRLHSSWENLNGSTLQELLVHRRSC
 PSGSEISLLCTKQDCGRRPAARMNKRI LGGRTSRPGRWPQCSLQSEPSGHICGCVLI AKKWVLTVAHCF
 EGREDADVWVVFGINNLDHPSGFMQTRFVKTI LLHPRYSRAVVDYDISVVELSDDINETSIVRVPCLPS
 PREFLEPDTYCYITGWGHMGNKMPFKLQEGEVRIIPLEQCQSYFDMKTIINRMICAGYESGTVDSCMGDS
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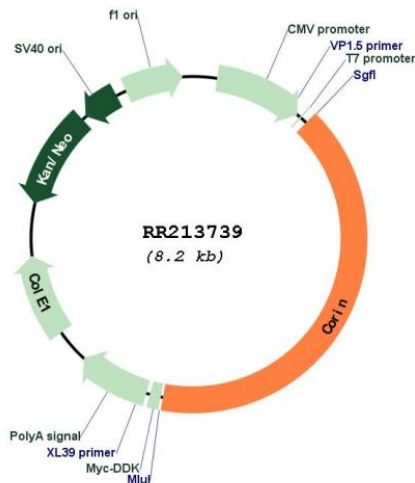
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_182473

ORF Size: 3333 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:	<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:	<u>NM_182473.1, NP_872279.1</u>
RefSeq Size:	3645 bp
RefSeq ORF:	3336 bp
Locus ID:	289596
UniProt ID:	<u>Q80YN4</u>
Cytogenetics:	14p11
MW:	122.6 kDa
Gene Summary:	Serine-type endopeptidase involved in atrial natriuretic peptide hormone (NPPA) processing. Converts through proteolytic cleavage the non-functional propeptide NPPA into the active hormone, thereby regulating blood pressure in heart and promoting natriuresis, diuresis and vasodilation. Proteolytic cleavage of pro-NPPA also plays a role in female pregnancy by promoting trophoblast invasion and spiral artery remodeling in uterus. Also acts as a regulator of sodium reabsorption in kidney. May also process pro-NPPB the B-type natriuretic peptide.[UniProtKB/Swiss-Prot Function]