

Product datasheet for MR224645

Corin (NM_016869) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Corin (NM_016869) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Corin
Synonyms:	AV273130; Lrp4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224645 representing NM_016869 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAGGGTTTCCTTCAGCGTTCGGGTGAGCTCCGTGCGGAGAGCCCGCTGCTCTTGCTGGGCGAT
GCTACCTCTCCTGCAGAGTCCCTCCAACCACCGCCCTCCGTGCACTGAACGGTCTTGCTGCGCGGGGT
TCCGGGGAGACTGCAGGTGGAGCCGTGCGACCCGGCCCTTGGGACCCGTGGCTTCTCTCCGGGTCC
AAGTTCAGGCTCCCGCAGCTGGAAGGATTGCTTTGGAGCCCCGCTGCTCCAGACGTCTTGAGAGCAG
ACAGGAGCGTGGGCGAGGCTGTCTCAGAAGCTGGTACTGCTAACTTGCTGCGCTTCTCTGCTGGT
GCTCATCCCTGCATCTGCGCCCTCATCGTGTCTGCTGGCCATCCTGCTGTCTTTGTGGGAACATTA
AGGGTTTATTTCAAATCAAATGACAGTGAACCTTTGGTCACTGATGGGAAGCTCGAGTGCCTGGTGT
TTCTGTAAATACAGTTTATTATGAGAACAAGGGGCGCCCTCTCTGCCCCAGCCAGTCCACTCCAGC
CTGGACACCGAGAGCTCCTTCTCCAGAGGACCAGAGTACAGGAACACAAGCACCTGCATGAACATCACT
CACAGCCAGTGTCAAATCTGCCCTACCACAGCACGTTGGCACCTCTCTTGCCAATTGTCAAAAACATGG
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GCAGCAAGGATCTGTTTCACTGTGGCACAGGCAAGTGCCTCCATTACAGCCTCTTGTGTGATGGGTACGA
TGACTGTGGGACCTGAGTGACGAGCAAACTGTGATTGTAATCTCAGAAAAGAGCATCGCTGTGGAGAT
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GAAGGAGAACAGGGATGCCTTGGCAGTTCCTGCGTCGAATCCTGTGCTGGTAGCTCTCTGTGTGACTCAG
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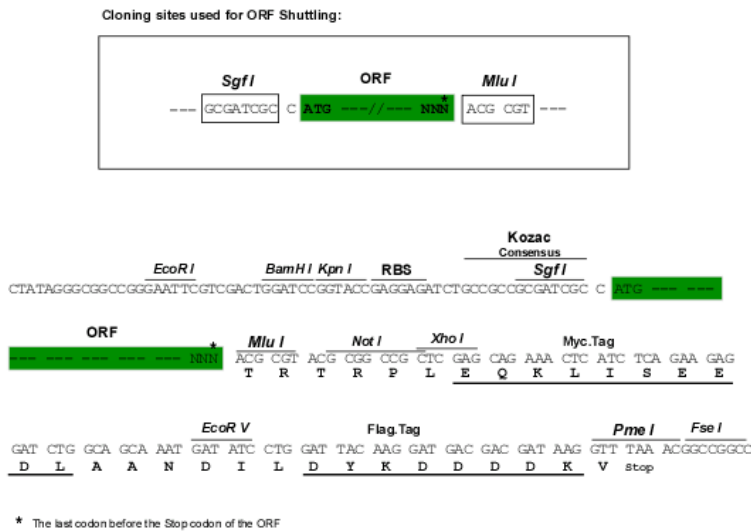
Protein Sequence:

>MR224645 representing NM_016869
 Red=Cloning site Green=Tags(s)

MGRVFSVSRVSSVRRARCSPGRCYLSCRVPPTALRALNGLGCAGVPGETAGGAVGPGPLGTRGFLSGS
 KFQAPGSWKDFGAPPAPDVLADRDSVGEQCPQKLVANLLRFLLLVLIPICALIVLLAILLSFVGLK
 RYVYFKNDSSEPLVTDGEARVPGVIPVNTVYYENTGAPSLPPSQSTPAWTPRAPSPEDQSHRNTSTCMNIT
 HSQCQILPYHSTLAPLLPIVKNMDMEKFLKFFTYLHRLSCYQHILLFGCSLAFPECVVDGDRHGLLPCR
 SFCEAAKEGESVLMVNSSWPDLSLRCSQFRDHTETNSSVRKSCFSLQEHGKQSLCGGGSFLLCTSGLC
 VPKKLQCNQYNDCCDWSDEAHCNCSKDLFHCGTGKCLHYSLLCDGYDDCGDLSDQNCDNLTKEHRCGD
 GRICIAAEWVCDGDHDCVDKSDVENCSCHSQGLVECRSGQCIPTFQCDGDEDCKDGSDEENCSDSQTPCP
 EGEQGCLGSSCVESGAGSSLDSDSSLNCSQCEPITLLECMNLPYNHHTYPNYLGHRTQKEASISWESS
 LFPALVQTNKYKLMFFACTILVPKCDVNTGQRIPPCRLCEHSKERCEVSLGIVGLQWPEDTDCNQFPE
 ESSDNQTCLLPNEDVEECSPSHFKCRSGRCVLSRRCDGQADCCDDSDENCGCKERALWECPFNKQCLK
 HTLICDGFDPDCPSMDEKNCSFCQDNELECANHECVPRDLWCDGWVDCSDSSDEWGCVTLSKNGNSSLL
 TVHKSAREHHVACDGWRETLSQLACKQMLGEPSTVTKLIPGQEGQWLRLYPNWENLNGSTLQELLVYRH
 SCPSRSEISLLCSKQDCGRRPAARMNKRIILGGRTSRPGRWPWQCSLQSEPSGHICGCVLIAKKWVLTVAH
 CFEGREDADVWVVFGINLNDHPSGFMQTRFVKITILLHPRYSRAVVDYDISVVELSDDINETSYVRPVCL
 PSPEEYLEPDTYCYITGWGHMGNKMPFKLQEGEVRIIPLEQCQSYFDMKTIINRMICAGYESGTVDSMCMG
 DSGGPLVCERPGGQWTLFGLTSWGSVCFSKVLGPGVYSNVSYFVGIERQIYIQTFLQKKSQG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9002_b09.zip
 Restriction Sites: SgfI-MluI
 Cloning Scheme:



ACCN: NM_016869

ORF Size: 3339 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_016869.3](#), [NP_058565.2](#)

RefSeq Size: 4890 bp

RefSeq ORF: 3342 bp

Locus ID: 53419

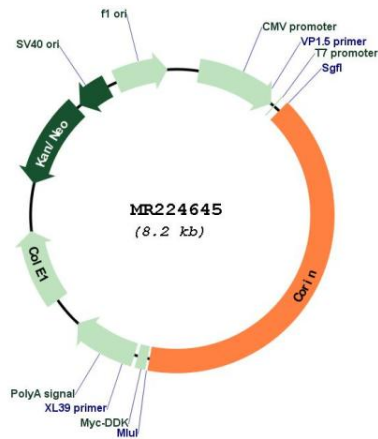
UniProt ID: [Q9Z319](#)

Cytogenetics: 5 C3.2

MW: 123.5 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]

Product images:



Circular map for MR224645