

## Product datasheet for **MR225196**

### Corin (NM\_001122756) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Corin (NM\_001122756) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Corin  
**Synonyms:** AV273130; Lrp4  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR225196 representing NM\_001122756  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTACGAAACGGCCCCCGCCCTTGCTCCGGAGGAGTACAGCCGCCGAGCTGACGCCCAAAGAGGG  
TCTTGAGAGCAGACAGGAGCGTGGCGAGGGCTGTCCTCAGAAGCTGGTACTGTAACCTGCTGCGCTT  
CCTCCTGCTGGTCTCATCCCCTGCATCTGCGCCCTCATCGTGTCTGGCCATCCTGCTGCTTTGTG  
GGAACATTAATAAGGGTTATTTCAAATCAAATGACAGTGAACCTTTGGTCACTGATGGGAAGCTCGAG  
TGCCCTGGTGTATTCTGTAAATACAGTTTATTATGAGAACACAGGGGCGCCCTCTGCCCCCAGCCA  
GTCCACTCCAGCCTGGACACCGAGAGCTCCTTCTCCAGAGGACCAGAGTACAGGAACACAAGCACCTGC  
ATGAACATCACTCACAGCCAGTGTCAAATCTGCCCTACCACAGCACGTTGGCACCTCTCTTGCCAATTG  
TCAAAAACATGGACATGGAGAAGTTCTCAAGTTCTTACGTACCTCCATCGCCTCAGTTGCTATCAACA  
TATCCTGCTCTTCGGCTGTAGCCTCGCCTCCCTGAGTGCCTGTTGATGGCGATGACAGGCATGGTCTT  
CTACCCGTAGATCTTTCTGTGAGGCTGCAAAAAGAAGGATGCGAATCTGTCTGGGAATGGTGAACCTCT  
CCTGGCCGGATTCCCTCAGATGCTCTCAGTTTAGGGACCACACTGAGACTAACAGCAGTGTGAGAAAGAG  
CTGCTTCTCACTGCAGCAGGAACATGAAAGCAATCACTCTGTGAGGGGCGAGAGCTTCTGTGTACC  
AGCGGGCTCTGCGTCCCCAAGAAGCTGCAGTGTAAACGGCTATAATGACTGTGATGACTGGAGCGACGAGG  
CGCATTGCAACTGCAGCAAGGATCTGTTTCACTGTGGCACAGGCAAGTGCTCCATTACAGCCTCTGTG  
TGATGGGTACGATGACTGTGGGACCTGAGTGACGAGCAAACTGTGATTGTAATCTCACAAAAGAGCAT  
CGCTGTGGAGATGGGCGCTGCATTGCGGCTGAGTGGGTGTGCGATGGGACCATGACTGTGTGGACAAGT  
CTGATGAGGTCAACTGCTCTTGTACAGCCAGGGCCTGGTGAATGCAGAAGTGGACAGTGCATCCCTAG  
CACCTTCCAGTGTGATGGGACGAAGACTGTAAGGATGGGAGTGACGAGGAGAACTGCAGTACAGTACAG  
ACGCCATGTCCAGAAGGAGAACAGGGATGCCTTGGCAGTTCTGCGTCAATCCTGTGCTGGTAGCTCTC  
TGTGTGACTCAGACAGCAGCCTGAGTAAGTGCAGTCAATGTGAGCCCATCACTTTGGAACCTGCATGAA  
TTTGCCCTACAACCATACACATTATCAAATTACCTTGGCCACAGAACTCAAAGGAAGCGTCCATCAGC  
TGGGAGTCATCCCTTTCCCTGCCCTTGTACAAACCAACTGTTACAAATACCTCATGTTTTTCGCTTGCA



CCATTTTGGTTCCAAAGTGTGATGTGAATACAGGACAACGCATCCCGCCTTGCAGACTCCTGTGTGAGCA  
 CTCAAAGAGCGCTGTGAGTCTGTTCTGGGAATCGTTGGCCTGCAGTGGCCTGAAGACACCGACTGCAAT  
 CAATTTCCAGAGGAAAGTTGAGACAATCAAACCTGCCTCCTGCCAATGAAGATGTGGAAGAATGCCTC  
 CGAGTCACTTCAAATGCCGCTCGGGACGATGCGTTCTGGGCTCCAGGAGATGTGACGGCCAGGCTGACTG  
 TGACGACGACAGTGACGAGGAGAACTGTGGTTGTAAGAGAGAGCTCTTTGGGAATGTCCATTTAATAAG  
 CAATGTCTGAAGCATACATTAATCTGCGATGGGTTCCAGATTGCCAGACAGTATGGATGAAAAAACTCC  
 GCTCATTTTCCAAAGACAATGAGCTGGAATGTGCCAACCATGAGTGTGTGCCGCGTGACCTTTGGTGCGA  
 CGGATGGGTGACTGCTCAGACAGTTCTGATGAATGGGGCTGTGTGACCCTCTCTAAAAATGGGAACCTCC  
 TCCTCATTGCTGACTGTTCAAAAATCTGCAAAGGAACACCACGTGTGTGCTGACGGCTGGCGGGAGACGT  
 TGAGTCAGCTGGCCTGCAAGCAGATGGGTTTAGGAGAACCCTGTGTGACCAAGCTGATCCCAGGACAGGA  
 AGGCCAGCAGTGGCTGAGGTTGTACCCAACTGGGAGAACTCAATGGGAGCACCTTGACAGGAGCTGCTG  
 GTATACAGGCACTCCTGCCAAGCAGAAGTGAATTTCCCTTCTGTGCTCAAGCAAGACTGTGGCCGCC  
 GCCCTGCTGCCGAATGAACAAGAGGATCCTTGGGGTTCGGACTAGTCGTCTGGGAGGTGGCCGTGGCA  
 GTGCTCTCTCAGAGTGAACCCAGTGGACATATCTGTGGCTGTGCTCATTGCCAAGAAGTGGTCTCTG  
 ACAGTTGCCATTGCTTTGAAGGGAGAGAAGACGCTGATGTTTGGAAAGTGGTATTTGGCATAAACAAAC  
 TGACCATCCATCAGGCTTCATGCAGACCCGCTTTGTGAAGACCATCCTGCTACATCCCCGTTACAGTCCG  
 AGCAGTGGTAGACTATGATATCAGCGTGGTGGAGCTGAGCGATGATATCAATGAGACAAGCTACGTCAGA  
 CCTGTCTGCCTACCCAGTCCGGAGGAGTATCTAGAACCAGATACGTAAGTCTACATCACAGGCTGGGGCC  
 ACATGGGCAATAAAAATGCCCTTTAAGCTGCAGGAGGGAGAGTCCGCATTATCCCTCTGGAGCAGTGCCA  
 GTCCTATTTTGACATGAAGACCATCAACATCGGATGATCTGTGCTGGCTATGAGTCTGGCACCGTGGAC  
 TCCTGCATGGGAGACAGCGGTGGCCCTGTGTTTGAACGACCCGGAGGACAGTGGACATTATTTGGTT  
 TAATTCATGGGGCTCCGTCTGCTTTTCCAAAGTCTGGGACCTGGAGTGTACAGCAATGTGCTTACTT  
 TGTGGGCTGGATTGAAAGACAAAATATATCCAGACCTTCTCCAAAAGAAATCCCAAGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225196 representing NM\_001122756  
 Red=Cloning site Green=Tags(s)

MFTKRPPALAPEEYSRRADAPKRVLRADRSVGECPQKLV TANLLRFLLLVLIIPCICALIVLLAILLSFV  
 GTLKRVYFKSNDSEPLVTDGEARVPGVIPVNTVYYENTGAPSLPPSQSTPAWTPRAPSPEDQSHRNTSTC  
 MNITHSQQILPYHSTLAPLLPIVKNMDMEKFLKFFTYLHRLSCYQHILLFGCSLAFPECVVDGDRHGL  
 LPCRSFCEAAKEGCESVLGMVNSSWPDSLRCRQFRDHTENSSVRKSCFSLQQEHGKQSLCGGGSFLCT  
 SGLCVPKLLQCNQYNDCCDWSDEAHCNCSKDLFHCCTGKCLHYSLLCDGYDDCGDL SDEQNCDCNL TKEH  
 RCGDGRCAAAEWVCDGDHDCVDK SDEVNCSCHSQGLVECRSGQCIPSTFQCDGEDCKDGSDEENCSDSQ  
 TPCPEGEQGLGSSCVESCAGSSL CSDSDSLSNCSQCEPITLLELCMNL PYNHHTYPNYLGHRTQKEASIS  
 WESSLPALVQTNKYKYL MFFACTILVPKCDVNTGQRI PPCRLCEH SKERCESVLGIVGLQWPEDTDCN  
 QFPEESSDNQTCLLPNEDVEECS PSHFKCRSGRCVLGSRRC DGQAD CDDSD EENC GCKERALWEC PFNK  
 QCLKHTLICDGFDPDPSMDEKNC SFQDNELECANHECVPRDLWCDGWVDCSDS SDEWGCVTLSKNGNS  
 SSLLTVHKSAKEHHV CADGWRETL SQLACKQMGLGEP SVTKLIPGQEQQLRLYPN WENLNGSTLQELL  
 VYRHSCP SRSEISLLCSKQDCGRRAARMNKRI LGGRTSRPGRWPQCSLQSEPSGHICGCVLI AKKWWL  
 TVAHC FEGREDADVWKVVFGINNLDHPSGFMQTRFVKILLHPRYSRAVVDYDISVVELSDDINETS YVR  
 PVCLPSP E EYLEPDTYCYITGWGHMGNKMPFKLQEGEVRIIPLEQCQSYFDMKTI TNRMICAGYESGTVD  
 SCMGDSGGPLVCERPGQWTLFGLTSWGSVCF SKVLGPGVYSNVSYFVGWIERQIYIQTFLQKKSQG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001122756.1</a></u> , <u><a href="#">NP_001116228.1</a></u>
<b>RefSeq Size:</b>	4733 bp
<b>RefSeq ORF:</b>	3144 bp
<b>Locus ID:</b>	53419
<b>UniProt ID:</b>	<u><a href="#">Q9Z319</a></u>
<b>Cytogenetics:</b>	5 C3.2
<b>MW:</b>	117.1 kDa
<b>Gene Summary:</b>	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]