

## Product datasheet for **MG225196**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Corin (NM_001122756) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Corin
Synonyms:	AV273130; Lrp4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225196 representing NM_001122756 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTACGAAACGGCCCCCGCCCTTGCTCCGGAGGAGTACAGCCGCCGAGCTGACGCCCAAAGAGGG  
TCTTGAGAGCAGACAGGAGCGTGGGCGAGGGCTGTCTCAGAAGCTGGTACTGCTAACTTGCTGCGCTT  
CCTCTGCTGGTCTCATCCCCTGCATCTGCGCCCTCATCGTGTCTGGCCATCCTGCTGTCTTTGTG  
GGAACATTAAGGGTTATTTCAAATCAAATGACAGTGAACCTTTGGTACTGATGGGAAGCTCGAG  
TGCTGGTGTATTCTGTAAATACAGTTTATTATGAGAACACAGGGCGCCCTCTGCCCCCAGCCA  
GTCCACTCCAGCCTGGACACCGAGAGCTCTTCTCCAGAGGACCAGAGTACAGGAACACAAGCACCTGC  
ATGAACATCACTCACAGCCAGTGTCAAATCTGCCTACCCACAGCACGTTGGCACCTCTCTTGCCAAATG  
TCAAAAACATGGACATGGAGAAGTTCTCAAGTTCTTACGTACCTCCATCGCCTCAGTTGCTATCAACA  
TATCTGCTCTTCGGCTGTAGCCTCGCCTCCCTGAGTGCCTGTTGATGGCGATGACAGGCATGGTCTT  
CTACCTGTAGATCTTTCTGTGAGGCTGCAAAAGAAGGATGCGAATCTGTCTGGGAATGGTGAACCTCT  
CCTGGCCGGATCCCTCAGATGCTCTCAGTTTAGGGACCACACTGAGACTAACAGCAGTGTGAGAAAGAG  
CTGCTTCTCACTGCAGCAGGAACATGAAAGCAATCACTCTGTGGAGGGGCGAGAGCTTCTGTGTACC  
AGCGGGCTGCGTCCCCAAGAAGCTGCAGTGTAAAGGCTATAATGACTGTGATGACTGGAGCAGCAGG  
CGCATTGCAACTGCAGCAAGGATCTGTTCACTGTGGCAGGCAAGTGCCTCCATTACAGCCTCTTGTG  
TGATGGGTACGATGACTGTGGGACCTGAGTGACGAGCAAACTGTGATTGTAATCTCACAAAAGAGCAT  
CGCTGTGGAGATGGGCGCTGCATTGCGGCTGAGTGGTGTGCGATGGGACCATGACTGTGTGGACAAGT  
CTGATGAGGTCAACTGCTCTTGTACAGCCAGGGCCTGGTGAATGCAGAAGTGGACAGTGCATCCCTAG  
CACCTTCCAGTGTGATGGGACGAAGACTGTAAGGATGGGAGTGACGAGGAGAAGTGCAGTGACAGTCAG  
ACGCCATGTCCAGAAGGAGAACAGGGATGCCTGGCAGTCTCTGCGTCGAATCCTGTGCTGGTAGCTCTC  
TGTGTGACTCAGACAGCAGCCTGAGTAAGTGCAGTCAATGTGAGCCCATCACTTTGGAAGTCTGCATGAA  
TTTGCCCTACAACCATACATTATCAAATTACCTTGGCCACAGAACTAAAAGGAAGCGTCCATCAGC



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TGGGAGTCATCCCTTTCCCTGCCCTTGTACAAACCAACTGTTACAAATACCTCATGTTTTTCGCTTGCA  
 CCATTTTGGTTCCAAAGTGTGATGTGAATACAGGACAACGCATCCCGCCTTGACACTCCTGTGTGAGCA  
 CTCCAAAGAGCGCTGTGAGTCTGTTCTGGGAATCGTTGGCCTGCAGTGGCCTGAAGACACCGACTGCAAT  
 CAATTTCCAGAGGAAAGTTCAGACAATCAAACCTGCCTCCTGCCAATGAAGATGTGAAGAATGCCTC  
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 TGACGACGACAGTGACGAGGAGAACTGTGGTTGTAAGAGAGAGCTCTTGGGAATGCCATTTAATAAG  
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 GCTCATTTTGCCAAGACAATGAGCTGGAATGTGCCAACCATGAGTGTGTGCCGCTGACCTTTGGTGCGA  
 CGGATGGGTGCGACTGCTCAGACAGTTCTGATGAATGGGGCTGTGTGACCTCTCTAAAAATGGGAACTCC  
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 TGAGTCAGCTGGCCTGCAAGCAGATGGGTTTAGGAGAACCCTGTGTGACCAAGCTGATCCAGGACAGGA  
 AGGCCAGCAGTGGCTGAGGTTGTACCCCACTGGGAGAATCTCAATGGGAGCACCTTGACAGGAGCTGCTG  
 GTATACAGGCACTCCTGCCAAGCAGAAGTGAATTTCCCTTCTGTGCTCAAGCAAGACTGTGGCCGCC  
 GCCCTGCTGCCCAATGAACAAGAGGATCCTTGGGGTGGACTAGTCGTCTGGGAGGTGGCCGTGGCA  
 GTGCTCTCTGCAGAGTGAACCCAGTGGACATATCTGTGGCTGTGCTCATTGCCAAGAAGTGGGTCTG  
 ACAGTTGCCCATTGCTTTGAAGGGAGAGAAGACGCTGATGTTGAAAGTGGTATTTGGCATAAACAAACC  
 TGGACCATCCATCAGGCTTCATGCAGACCCGCTTTGTGAAGACCATCCTGCTACATCCCCGTTACAGTCG  
 AGCAGTGGTAGACTATGATATCAGCGTGGTGGAGCTGAGCGATGATATCAATGAGACAAGCTACGTCAGA  
 CCTGTCTGCCTACCCAGTCCGGAGGAGTATCTAGAACCAGATACGTAAGTCTACATCACAGGCTGGGGCC  
 ACATGGGCAATAAAATGCCCTTTAAGCTGCAGGAGGGAGAGTCCGCATTATCCCTCTGGAGCAGTGCCA  
 GTCCTATTTGACATGAAGACCATACCAATCGGATGATCTGTGCTGGCTATGAGTCTGGCACCGTGGAC  
 TCCTGCATGGGAGACAGCGGTGGCCTCTGGTTGTGAACGACCCGGAGGACAGTGGACATTATTTGGTT  
 TAATTCATGGGGCTCCGTCTGCTTTTCAAAGTCTGGGACCTGGAGTGTACAGCAATGTGCTTACTT  
 TGTGGGCTGGATTGAAAGACAAAATATATATCCAGACCTTTCTCCAAAAGAAATCCCAAGGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG225196 representing NM\_001122756  
 Red=Cloning site Green=Tags(s)

MFTKRPPALAPEEYSRRADAPKRVLRADRSVGEQCPQKLVNANLLRFLLLVLIIPICALIVLLAILLSFV  
 GTLKRVYFKSNDSEPLVTDGEARVPGVIPVNTVYENTGAPSLPPSQSTPAWTPRAPSPEDQSHRNTSTC  
 MNITHSQQILPYHSTLAPLLPIVKNMDMEKFLKFFTYLHRLSCYQHILLFGCSLAFPECVVDGDRHGL  
 LPCRSFCEAAKEGCESVLGMVNSSWPDSLRCRQFRDHTENSSVRKSCFSLQEQHGKQSLCGGGSFLCT  
 SGLCVPKLLQCNQYNDCCDWSDEAHCNCSKDLFHCCTGKCLHYSLLCDGYDDCGDLSDQNCDCNLKEH  
 RCGDGRCAIAEWVCDGDHDCVDKSDDEVNCSCHSQGLVECRSGQCIPSTFQCDGDEDCKDGSDEENCSDSQ  
 TPCPEGEQGLGSSCVESCAGSSLCDSDSSLNCSQCEPITLLELCMNLPNHHTHPNYLGHRTQKEASIS  
 WESSLPALVQTNKYKYL MFFACTILVPKCDVNTGQRIPPCRLLCEHSKERCESVLGIVGLQWPEDTDCN  
 QFPEESSDNQTCLLPNEDVEECSPSHFKCRSGRCVLGSRRCGQADCDSDSEENCCKERALWECPFNK  
 QCLKHTLICDGFDPDPSMDEKNCFSQDNELECANHECVPRDLWCDGWVDCSDSSDEWGCVTLSKNGNS  
 SSLLTVHKSAKEHHVACDGWRETLSQLACKQMGLGEPVTKLIPGQEQQLRLYPNWNENLNGSTLQELL  
 VYRHSCP SRSEISLLCSKQDCGRPAARMNKRI LGGRSRPGRWPQCSLQSEPSGHICGCVLIAKKWVL  
 TVAHC FEGREDADVWVVFGINNLDHPSGFMQTRFVKILLHPRYSRAVVDYDISVVELSDDINETSIVR  
 PVCLPSPEEYLEPDTYCYITGWGHMGNKMPFKLQEGEVRIIPLEQCQSYFDMKTIITNRMICAGYESGTVD  
 SCMGDSGGPLVCERPGQWTLFGLTSWGSVCF SKVLGPGVYSNVSYFVGWIERQIYIQTFLQKKSQG

TRTRPLE – GFP Tag – V

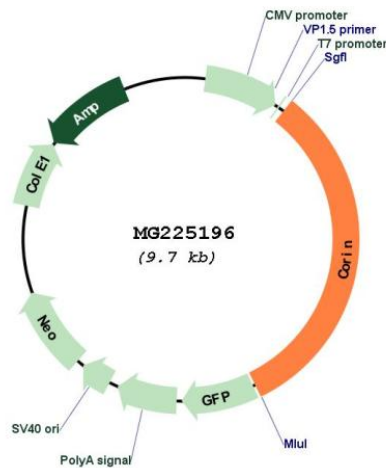
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001122756

ORF Size: 3141 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](#)

<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>	<a href="#">NM_001122756.1</a> , <a href="#">NP_001116228.1</a>
<b>RefSeq Size:</b>	4733 bp
<b>RefSeq ORF:</b>	3144 bp
<b>Locus ID:</b>	53419
<b>UniProt ID:</b>	<a href="#">Q9Z319</a>
<b>Cytogenetics:</b>	5 C3.2
<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]