

## Product datasheet for **MC202622**

### **C2cd2l (NM\_027909) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C2cd2l (NM_027909) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	C2cd2l
Synonyms:	1300006O23Rik; Tmem24
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:**

>BC060156 sequence for NM\_027909  
 GGAACCTAGCTGGGGTCACACCGCCGGTGTAGGGATCCAGATCTCTGGCTACGGAGACAGAGCTCGAGC  
 GTCGCGACCCCGGAGGACCTCTTCTCCATCCGTGGCACCCACTGGTCTTGGAAATCTCGGCGGGCGCCGGAG  
 AGCCCCGGAGCCCGCGCTCAGCCCCGGGGAGCTCGCCACGCCACGGTCCATCCGGGCCATGCTC  
 CCCCAGGGCAGCGGTGAACCCGAGCCGGACCCGAGCCCGGGGAGCATGGATCCGGACTGGGGGCAGC  
 GGGATGTGGGCTGGGCGGCCCTGCTGGTTCTCTCGCCGCTCGTGATCACGGTATTGGGCTGGATGCT  
 GCAGTATGCCCGGGTTGTGGCTGTCCGAGCCGATGGGGGCGAGACTCCCGACTGCCCTCAGTCTGCT  
 GAGCCCCGGGGTCACTGCGCGAGCTGGGTGTGTGGCGTTCGCTGCTGCGTTTGGCGGCGACCCGGACCA  
 GCACCCCGAGGAAGCCGCGTACGGGGCTCCTGGCTTCGCTCTTTGCCTTCAAGTCTTTCCGGGAGAA  
 CTGGCAACGGGCTTGGGTGCGAGCCTTGAATGAGCAGGCCTGCAGGGACGGGAGCTCCATCCAAATCGCC  
 TTTGAAGAGATACCCCACTCCACCAAGAGCCAGCATCAGTCATGTGACCTGCGTTGACCAATCAGAGC  
 GCACCATGGTGTGCATTGCCAGCTCTGCTGAGGAGGTGCGCTTCCCCATCTCTGTGACCAGCAGTC  
 CCCCCTGCCGTCCATGGAGACCTACCAGTCACTCTGACTGCCACCAACACAGTTGGAAGTCAGC  
 CTGGAGGAAATCCCTGATGAGGGCTCCTGGTGTCTGGGCTTCACTGACCGCCAGAAGTCCAGCTAA  
 AGGTGCTTCCCAAGTTGACAGTACGGGAGAGATGAGGAACAACAGAGCTCTCAACAGTTGAGGAACT  
 GATCAAGGACGCTATAGTCAGCACTCAGCCCGCATGATGGTCAACCTCAGGGCCTGCTCTGCCCCAGGA  
 GGCTTGGTACCCAGTGAGAAGCCACCCAGATGTCCAGGCCAGCCATCCATCCCCAGACTACCCGAT  
 TATTCTTACGGCAGCTTCGAGCATCTCACCTGGGAAGTGAAGTACTAGGAGGTAAGTGGTGTGCTGTGC  
 CGCTGAGCTTGACAACCCATGCAACAAAAGTGGACCAAAACCCATGAGGGCGGGCCCCGAGGTGGAATGG  
 ACCGAGGACCTAGCTCTGGATCTGGGTCACAGCCGGGAGCTGACCCCAAAGTGTCCGGAGCAGCA  
 GCTGTGGAGATGCTGAACTCCTTGGCAAGCCACACTGCCTGTGGGCTCACCTCTAGACCGATGTCAG  
 AAGACAGGTGTGCCACTGACTCCAGGGCCCGGAAATCCCTGAGCCCGCAGCCACCGTGACAGCGGAG  
 CTACATTATGAGCAGGGTCCCTCGGAATCTGGGCACGCCACCTCTCCACCCCTCGCCCCAGCATCA  
 CACCCACCAAGAAGATTGAGTTGGACCGACCATCATGCCCGACGGCACAGTCTGACCACTGTCACTAC  
 CGTCCAGTCCCGCCCCGTGTAGATGGCAAACTAGACTCCCCCTCCCGCTCCCGTCCAAGTGGAGGTG  
 ACTGAGAAGATGACAACCGTGTGAGTGAAGCAGCGGCCAGCAATGCCTCCACAGCAGCAGCCGGG  
 AGAGCCACCTTTCCAATGGCTTGGATCCAGTAGCAGAGACAGCCATTCGCCAGCTGACTGAGCCAGTGG  
 GCGGGCAGCCAAGAAGACACCCACCAAGAGGAGCAGCTCATCATCTCTGGTGTTCGAAGTGGCCATC  
 GCCCAGGACGAGTTGGTCTCTCCTTGGGTTACGCGGCATCTCTGGAAGCCTCGATGCAAGATGATGAG  
 GAACCAAGTGGTGTCTCGTCACTCCCTCAGACCCCTCAGCCACATCCCCAGGACCTGTTGATGCCCT  
 CTCAGTCCCACAAGTGTCCAGGAGGCAGATGAGACAACAGTTCAGACATCTCTGAGAGCCGCTGTGTG  
 GATGATGTTGAGTCAGAAACAGGGTCCACTGGTGCCTGGAGACCAGAAGCCTCAAGGATCACAAGTGA  
 GTTTCCTGCGCAGTGGCACAAGCTCATTTCCGCGGAGGCCCCGACAGAAGGAAGTGGTCTGAGCCA  
 GTCACACGATGACCTGTCCAACACGACGGCCACACCTAGCGTCCGGAAGAAGGCTGGCAGCTTTTCCCGT  
 CGCCTTATCAAGCGTTTTTCTTCAAATCCAAACCCAAAGGCCAATGGCAACCCTAGCCCCAGCTGTGAA  
 AGCCCCGAGCTAGGAGAGATCAAGAGTTCTCTTAGTCTGTCCCCACATCCCCTTCTGTACCCCTTCT  
 GGATCCCCACTGCTGGGGCCAGGAAAGCCCTCGGGTTATAGGGAGCCCCAGCACACTGGGCTGTGGGGTG  
 AGCGGGAAGGGTGTCTGACATGGGAGGCATCTGGGAGGCAACAGTTGTTGCGTGAGCGTAGAGGAGATT  
 TGGCAGCTGAGAGTCAGGGCAAGCTGTCTTGGGCGTGTGGACACTCATCAGAAGCCTCTGCTGGTAC  
 TGCCGCCAGAGGGGAGCCAGAGTACTCTCATCAGCAGGTCTTCTCCCTATTATTCTCGTTTCTA  
 TTTATATGTGTGGTCTAGAACCCTTGGCAACAGATGATAGAGGGCATCTCTCCAGGTGACCCTTTTCT  
 GTCCAGGAGGGTAAGGCAATCCAGGACGGGTTTCTACCCCTCCCTGGGAGTCTCTCTTAGACCAG  
 CACCAATGTCTGCCTTCAGAAGACATTGGCAGATCACAGGAAGCCGGGCTAGGGCCCGGATGGGGGGCA  
 GGCCTCCACCTCCCTACCTCCACATCGCTCCTTGTCTCTCCTTCCCTTTATTACCATTTTGTACT  
 TGATGCCCTTCCATGAGCAGTGGCTCAGTTGGAAGGAGGAGCCAGGAAGCTGGGAGGAAGCCTCCCT  
 AGAGAGCCAGCTTATAGGAGTTTTAAAGACAGTACGATCATAGAGCAAGGTTGCACCTCTGTATGTTGGG  
 GATGATGATGTCATTGCTGTGTGATGGCTGGAATTTAATTTAATTAATAAAATCAAATGGAGTTTA  
 AAAAAAAAAAAAAAAAAA

**Restriction Sites:**

AscI-NotI

**ACCN:**

NM\_027909

<b>Insert Size:</b>	2121 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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="#">BC060156</a> , <a href="#">AAH60156</a>
<b>RefSeq Size:</b>	3237 bp
<b>RefSeq ORF:</b>	2121 bp
<b>Locus ID:</b>	71764
<b>UniProt ID:</b>	<a href="#">Q80X80</a>
<b>Cytogenetics:</b>	9 A5.2
<b>Gene Summary:</b>	<p>Lipid-binding protein that transports phosphatidylinositol, the precursor of phosphatidylinositol 4,5-bisphosphate (PI(4,5)P2), from its site of synthesis in the endoplasmic reticulum to the cell membrane (By similarity). It thereby maintains the pool of cell membrane phosphoinositides, which are degraded during phospholipase C (PLC) signaling (By similarity). Plays a key role in the coordination of Ca(2+) and phosphoinositide signaling: localizes to sites of contact between the endoplasmic reticulum and the cell membrane, where it tethers the two bilayers (By similarity). In response to elevation of cytosolic Ca(2+), it is phosphorylated at its C-terminus and dissociates from the cell membrane, abolishing phosphatidylinositol transport to the cell membrane (By similarity). Positively regulates insulin secretion in response to glucose (PubMed:24012759). Phosphatidylinositol transfer to the cell membrane allows replenishment of PI(4,5)P2 pools and calcium channel opening, priming a new population of insulin granules (By similarity). [UniProtKB/Swiss-Prot Function]</p>