

## Product datasheet for **MR223430**

### **Mamdc2 (NM\_174857) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mamdc2 (NM_174857) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mamdc2
Synonyms:	1200015L10Rik; AI591564; mamcan
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR223430 representing NM\_174857  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTACTAGAAGGGTCTGCTGGTAGTGAAGCCTTGACGCTTCCAATGCCCTAGACCTGCCCGCTG  
 GCTCCTGCGCCTTTGAAGAAGACACGTGTGGCTTTGACTCCGTGTTTGCCTTTGCTTGGATACTAAA  
 TGAGGAAGGCCATTATGTCTATATGGACACCTCTTTTGCAGGCAAGGGGAGAAAGCTGTGCTGCTGAGT  
 TCTGATTTGCAGGCTGAGGAGTGAAGTGTGGCCTGGTCTACCAGATAACCACACCTCCGGGATCTG  
 TGTGACACCCAGCCAGCTGAACCTCTATGTGAGATTTGAGGATGAGAGCTTCGATCGCTTGGCTT  
 CACTAAGGAGCCTTCAGACAGCTGGCTCATAGCCAGCCTGGATCTTCAAAACAGCTCCAAGAAATCAAG  
 ATTTTGATAGAAGGTGCCTGGGACAAGGAAACACGGCTAGCATTGCCCTCTTTGAAATCAAGATGACAG  
 CCGGCTACTGTATTGAATGTGACTTTGAAGAAAACCATCTCTGTGGCTTTGTGAACCGCTGGAATCCAA  
 TGTGAAGTGGTTCGTGGGAGGAGAACTGCGAAGAACCACCCACTCCATCCTCCACAGGATCACACCTTC  
 AGGAGTGAGCACGGCCACTACATGTATGTGGACTCTGTGTATGTCAAGCACTTCCAGGAAGTAGCCAGC  
 TCATCTCCCCAGTGACCACAGCCTCCATGTCTGGCTGTCTCTCGTTCTATTACCAGCTTACGAGGGGAA  
 TGACAATGTCTTCTGTTTACACACGGGACATGGCTGGCCTGTACGAGGAGATTTGAAAGTGGACAGC  
 CCAGGCAATGCAGCCTGGAACCTTGCAGGAGTGAATTTAGTGCTCCTTACCCCATGGAGGTTATTTTTG  
 AAGTTGCTTTCAATGGTCCCAAAGGAGGCTACGTTGCCCTGGATGATATTTCTTCTCCTGTTCACTG  
 CCAAAATCAGACAGGGCTTCCTTTCAGTGCTGTGGAAACCAGCTGCGATTTTGAGATAGGCCTCTGCAAC  
 TTTTATCAAGACAAGAGGGTCCGGTGGACCAGAGTAAGAGTAAAAGCAAACATGTATCGGGCCGGAG  
 ACCACACGACAGGAACAGGGCACTACCTGCTGGCCAACACTAAGTTTACATCCAGCCTGGCTACATCGG  
 AAGACTTTATGGTCCCTCTCTCCCTGGAACATGCAGTACTGTGTGCGCTTTCATTACGCCATCTTTGGG  
 TTTTTGAAATGAGTGACACCCTAGCCGTTTATATCTTTGAAGAAAACCATGTGGTTCAAGAGAAGATCT  
 GGTCTGTGCTCGAGTCCCCGAGGGGTGTTGGATGCAAGCGGAAATCAGTTTCAAGAAGCCTATGCCAC  
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 ATGAATGTGCGTTTACACAGGAGAAAAGGAACCGAAGCAGCTGGCACAGGGGAAGGGGAGAAACGCCAC  
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 TGAGGAGTCCCTGTTGTGGAGAAGAAGGGGAGAGCAGAGCATCTCCTGGCTGCGGGCACTGGTTGAATAC  
 AGCTGCAGGAGGAGACCCAGATAATTTTTGAAGCCACTCGAGGAGTGTCCATAAGAAGTATCGCCA  
 TTGATGATGTTAACTTCAGGCAGGGCCGTGTGCAGGAATGGAAGATACAACTGAACAGTCATCAGGATA  
 TTCTGAAGACTTAAATGAAATCGAGTAT

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR223430 representing NM\_174857  
Red=Cloning site Green=Tags(s)

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MLLEGVLLVVQALQLANALDLPAGSCAFEEDTCGFDSVFAFLPWILNEEGHYVYMDTSFARQGEKAVLLS
SDLQAEAWNCLRLVYQITTPPGSVSDPSQLNLVYRFEDESFDRLWSTKEPSDSLWIASLDLQNSSKFKF
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RSEHGHYMYVDSVYVKHFQEVAQLISPVTTASMSGCLSFYYQLQQGNDNVFSVYTRDMAGLYEEIWKVDS
PGNAAWNLAEEVEFSAPYPMEVIFEVAFNGPKGGYVALDDISFSPVHCQNQTGLPFSAVETSCDFEIGLCN
FYQDKEGPGWTRVRVKANMYRAGDHTTGTGHYLLANTKFTSQPGYIGRLYGPSLPGNMQYCVRFHYAIFG
FLKMSDTLAVYIFEENHVQEKIWSVLESPRGVWMQAEISFKKPMPTKVVFMSLCKSFWDGCLVALDDIT
IQLGNCRSPARLPPPGECTFDQDECAFTQEKRRSSWHRGRGETPTSYTGPKGDHTTGVGYYMYIEASH
MVGQKAHLLSQPLRGVPGKHCLTFFYHMYGAGTGLLSVYLKREEDSEESLLWRRRGEQSISWLRALVEY
SCRRRHQIIFEATRGSIRSDIAIDDKLQAGPCAGMEDTTEQSSGYSEDLNEIEY
  
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9007\\_e11.zip](https://cdn.origene.com/chromatograms/mm9007_e11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



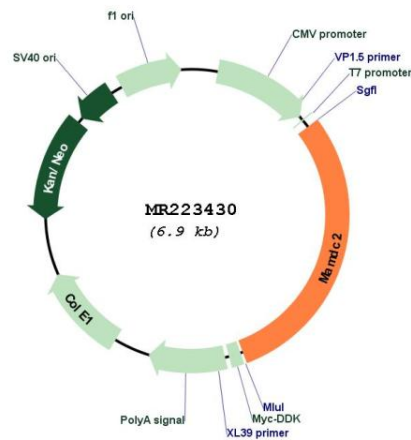
**ACCN:** NM\_174857

**ORF Size:** 2058 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.

<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>NM_174857.3, NP_777282.1</u>
<b>RefSeq Size:</b>	3338 bp
<b>RefSeq ORF:</b>	2061 bp
<b>Locus ID:</b>	71738
<b>UniProt ID:</b>	<u>Q8CG85</u>
<b>Cytogenetics:</b>	19 B
<b>MW:</b>	77.8 kDa

**Product images:**


Circular map for MR223430