

Product datasheet for **MC224155**

Crb2 (NM_001163566) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crb2 (NM_001163566) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Crb2
Synonyms:	5930402A21; BC043114
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224155 representing NM_001163566 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGGTGGGGCCTAGGATTTGGGGCCCTAGACGAGATATTTACCCCTGTTGCTGCTACTGCTAC
TGCTGCTGCTGCTGCTGCTGCCTGGGTCCCGGCTGGGCTGGTTCCTCCAGAGACTCCAAGTGTCTGTGC
CTCAGACCCATGTGCTCCAGGGACCAAGTGCCAGGCTACAGAAAGTGGTGGCTATACCTGTGAGCCCTCA
GAGCTTGGAGGCTGTGCTACTCAGCCATGCCACCAGGGGCACTGTGTGTGCCCCAGGGCCAGATCCTA
ACAGCTCCGTTGCTACTGTGTGCCTGGATTCCAGGGACCCACTGTGAACTGGACATCGATGAGTGTGC
GTCCCGCCTTGCCAGCATGGGGGCACCTGCCAAAATCTGGCAGATCACTACGAGTGCCACTGTCCCTG
GGATATGCAGGCGTGACCTGTGAGGCCGAGGTGGACGAGTGTGCTCGTCAGCGCCCTGCCTGCACGGAGGCT
CGTGCCTGGACGGTGTGGTTCCCTACCCTGCGTGTGCGCGCCGGGATACGCCGGTGCAGACTGTGAGCT
GGACGTGGACGAGTGCCAGAGCCAGCCGTGCGCGCACGGTGGCGTGTGTACGACCTGGTCAACGGTTTC
CGGTGCGACTGCGCGGACACGGGTTACGAAGGCGCGCTGCGAGCAGGAGGTGCTGGAGTGCCTCTG
CGCCCTGCGCGCACACGCGTCTGCTCGACGGCTCCCGAGCTCCGCTGCCTCTGCTGGCCAGGCTT
CAGTGGAGAGCGGTGCGAAGTGGATGAGGACGAATGTGCATCGGGCCCTGTCAAATGGGGCCAGTGC
TTGCAGCGCTTGACCCGACCTTGACGGGGTGTTCAGGCCATCTCCCGGAGCCTTCAGCTTCAGCC
ACGCCGCTGGCTTCTTTGCAGCTGTCCTCTGGGCTTTGCTGGGAATGACTGCAGCATGGATGTGGATGA
GTGTGCCTCAGGGCCGTGCCTCAATGGAGGTAGCTGCCAGGACCTGCCAATGGTTTCCAGTGTACTGC
CAGGATGGATACACAGGCTGACATGTCAGGAAGATATGGATGAATGCCAGTCGGAACCATGCCTGCATG
GTGGAACCTGCAGCGACACTGTAGCAGGCTACATCTGCCAGTGCCTGAGGCCTGGGGTGGACATGACTG
TTCTGTGACGCTCACAGGCTGCCAGGGCCATACCTGCCACTGGCTGCCACCTGCATCCCCACCTTCAAG
TCTGGCCTCCACGGTTACTTCTGCCGTGCCACCGGGGACCTATGGGCTTTCTGTGGCCAGAATACGA
CCTTCTCGTTGTCTGGGAGTCTGTGTGGGATTGGTCCAGCTGCTGCCTCCCTGGGTCTGGCACT
GAGATTCGTACCACCTGCTTGCCGGAACCTGGCTACTCTCAAAGACTCGGGACAGCTTGGAGCTG



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GTTCTGGTGGGGGCCGTGCTCCAAGCCACACTCTCGAGACATGGCACTGCGGTGCTCATCCTTACACTGC
 CTGACCTAGCCTTAAATGATGGGCATTGGCACCAGGTGGAAGTGACGCTCCACCTGGGAACCCTGGAGCT
 GCGGCTCTGGCAGGAGGCTGCCCTGGCCAGCTCTGTGTGGCCTCTGGTCCGGTGGCTACAGGCCCTACA
 GCCTCGGTGGCCTCTGGGCTCCGGGATCTACTCCATCTATCTGGGCGGCGGGGTCTTTGCCGGCTGCT
 TCCAGGATGTGCGTGTGGAAGGGCACCTTCTGCTGCCTGAGGAGCTCAAGGGAAGTGTGCTTCTGGGTTG
 TGAGCGCAGGGAACCTTGCCAGCCTCTGCCTTGTGCCATGGAGGGCCTGCGTGGACCTGTGGACTCAC
 TTCCGCTGCGACTGCCGAGACCTTACCGTGGAGCCACATGCACTGATGAGTTCTCTGCTGCCACTTTTG
 GCTTGGGTGGAGCCACGAGCTCAGCCTCTTTTCTGCTCCACCAACTAGGCCAAAACCTCACCGTGTCAAT
 TTTCTCCGCACCCGGAACCTGCCGGCTGTTGCTCCAGTTTGCCAATGATTAGTTGCGAGCCTGACT
 GTGTTCTGAGTGAGGGCCAGATCCGGGCTGAGGGGCTGGGTACCCTGCTGTGGTCTCCCTGGGCGCT
 GGGATGATGGACTCCCCACTTGGTGTGCTCAGCTTTGGGCTGACCAGCTGCAGGACCTGGGCCAGCG
 GCTGTATGTGGTGGGAGTTCTACCCTGATGACACCCAGCTCTGGGTGGGCCCTCCGAGGCTGTCTC
 CAGGACCTACAACCAACAGCATCCACCTCCCCTTCTTCTTCCCGATGGAGAAGTCAAGTTGGCCCA
 GTGAAGTGAAGCTGGCCAGTCTCAACCTCACCCAGGTTGTGTCTCTGAGGACAGTGAATCCCAA
 TCCTGTTTCAATGGTGGCAGTCCACGTACCTGGAATGACTTCTACTGCACCTGCTCCGAGAAGTTC
 ACGGGGCCACCTGTGCCAGCAGCGATGGTGGCCAGGACGCAATGCCTGCCTCTGCCACCTGTGAGG
 AGGTTCCAGATGGCTTGTGTGTGGCCGAGGGCCAGTTCCGCGAGGGCCCTCTGCTGTGTTACAGG
 CCACAACGTGTCTCATCGCTCAGCGGGCTCACCTGGCCTTCCGCACGCGGACTCCGAGGCTGGGCTA
 CTGCGCGCCGTCTCCGCCGAGGTGCCACTCCAATACTGGTTGGCGGTGCGCAACGGCTCGTGGCAG
 GAGATGTGGCGGGTTCGGTGTGCCCGCGCCGGGCGCGCGTGGCCGACGGCGCCTGGCATCGCGTGGC
 CCTAGCCCGGAGTCCACAGGCCGCTGCCTCGCGTGGTGTGCTGGTGGACGGCGCGGCGACACCC
 GTGGCCTTGCACGGCTGGGCGGCGACTGGGCTTCTGCAGGGTCCGGTGCAGTGCCTCTGCTACTGG
 GTGAGAACTTACGGGCTGCCTGGGCGCGTGGCACTTGGCACTTCCCGTTACCCTTGGCGCCACCGCG
 GTCTGGCACGGTGTCTGGGCGCGCGAGCACTTCGTGGCCTGGCCGGGTCTCCGGCCGTGAGTCTCGGC
 TGCCGTGGCGGACCCGTATGTTACCCCTCGCCCTGCCTGCACGGTGGCGCCTGCCGCGACCTCTTCGACG
 CCTTTGCTGCTCCTGCGGCCCGCCTGGGAAGGACCCCGCTGCGAGATCCGCGCTGACCCATGTCGCTC
 CACTCCCTGTGTCGGGGCCAATGCCATGCGCGCCCGACGGCCGCTTCGAGTGTGCTGCCCTCCGGGC
 TTCTCCGGCCCGCTGCAGGTTGCCTGTCTGCCTCAGGGATGCAACCTCAACTCCACATGCAAGGATG
 GCGCCCTTGTGAAGGCGGCCCTTAGGCACCAACTGCAGTTGCCAGGAAGTCTTGTGGCCTCAGATG
 TCAGAGTCTCGACAAACCCTGTGAAGCCAGCCCTTGTGTAATGGGGCACTTGCCGGTGGCCAGTGGC
 ATATTTGAATGTACTTGCAGTGCAGGATTCTTGCCAGTTCTGTGAAGTGGTAAAACCTACCTCTGC
 CTCTGCCGTTCCCACTGCTGGAGGTAGCAGTGCCTGCAGCCTGTGCCTGCCTCCTCTCTCTCTGGG
 CCTCTCTCAGGAATCCTGGCTGCCAGAAAGCGCCGAGTCTGAGGGCACTTACAGCCAAAGTCAGCAG
 GAGGTGGCTGGGCTCGTCTGGAGATGGACAGTGTCTCAAGGTGCCACCAGAGGAGAGACTTATTAG

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001163566
Insert Size: 3849 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001163566.1](#), [NP_001157038.1](#)

RefSeq Size: 6393 bp

RefSeq ORF: 3849 bp

Locus ID: 241324

UniProt ID: [Q80YA8](#)

Cytogenetics: 2 B

Gene Summary: Apical polarity protein that plays a central role during the epithelial-to-mesenchymal transition (EMT) at gastrulation, when newly specified mesodermal cells move inside the embryo (PubMed:26496195, PubMed:27870829). Acts by promoting cell ingression, the process by which cells leave the epithelial epiblast and move inside the embryo to form a new tissue layer (PubMed:27870829). The anisotropic distribution of CRB2 and MYH10/myosin-IIB at cell edges define which cells will ingress: cells with high apical CRB2 are probably extruded from the epiblast by neighboring cells with high levels of apical MYH10/myosin-IIB (PubMed:27870829). Also required for maintenance of the apical polarity complex during development of the cortex.[UniProtKB/Swiss-Prot Function]