

Product datasheet for RN215359

Mrc2 (NM_001024687) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mrc2 (NM_001024687) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mrc2
Synonyms:	Endo180
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN215359 representing NM_001024687 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGACCCATCCGACCTGCCCTGGCGCCCTGGCCTCGTCACCTGCTGCGCTGCGTCTTACTTCTCGGGG
GACTTCGCTTTGGCCACCCGGCAGACTCCGCCCGCCCTCCTGGAACCCGATGTCTTCTCATCTTCAG
CCAGGGGATGCAGGGCTGCCTGGAGGCCAGGGTGTGCAGTCCGAGTCATCCAGTCTGCAATGCCAGT
CTCCCTGCCAGCGCTGGAAGTGGTCTCCCGAACCGACTCTTCAACCTGGGGGCCATGCAAGTGCCTGG
GTACCGGCTGGCCTGCCACCAACACCACAGTTTCCCTGGGCATGTATGAATGTGACCGAGAGGCCTTGAG
TCTTCGCTGGCAGTGTCTGACACTAGGGGACCAGTTGTCTCTGCTTCTGGGGCCCGTGCAACAATGCA
TCGAAGCCTGGTACCCTGGAGCGCGGACAGACCCGAGTGGCCATTGGAACATCTATGGCAGTGAAG
AAGACCTATGTGCTCGACCCTACTACGAGGTCTACACCATCCAGGGAACTCCACGGGAAGCCGTGTAC
TATCCCTTCAAATACGACAACCAAGTGGTCCACGGCTGCACAGCAGCGGCGGGAAGATGGGCACCTG
TGGTGTGCCACCCAGGACTACGGCAAAGACGAGCGCTGGGGCTTCTGCCCATCAAGAGTAACGACT
GTGAGACATTCTGGACAAAGACCAGTACTGACAGCTGTTACCAGTTAACTTCCAATCCACACTGTC
CTGGAGGGAGGCCTGGCCAGCTGCGAGCAGCAGGGTGCAGACCTGTTGAGCATCACGGAGATCCACGAG
CAGACCTACATCAATGGACTCCTCACGGCTACAGCTCCACGCTGTGGATTGGCCTTAATGACTTGGACA
CCAGTGGAGGCTGGCAGTGGTCTGACAACCTCGCCCTCAAGTACCTCAACTGGGAGAGTGATCAGCCGGA
CAACCCAGGTGAGGAGAAGTGTGGAGTATCCGGACCGAGTCTCAGGTGGCTGGCAGAACCATGACTGC
AGCATCGCCCTGCCCTATGTCTGCAAGAAAAACCAACGCCACAGCCGAGCCATCCAGCCAGACAGGT
GGCCAATGTCAAGGTGGAGTGTGACCCAGCTGGCAGCCCTCCAGGGCCACTGCTACCGCTGCAGGC
GGAGAAGCGCAGCTGGCAGGAGTCCAAGAGGGCGTGCCTACGGGGCGGGGCGACCTCCTTAGCATCCAC
AGCATGACTGAGCTGGAGTTCATCACCACAGATCAAGCAAGAGGTGGAAGAGCTATGGATTGGCCTCA
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CTTTGAGCCCAACAATCTCCGTGACAGCCTGGAAGACTGTGTACCATCTGGGGGCCGGAAGGACGCTGG
AATGACAGTCCCTGTAACCAATCCTTGCCCTCCATCTGCAAGAAGGCAGGCCGACTGAGCCAGGGCACTG



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CAGAGGAGGACCATGGCTGCCGGAAGGGTTGGACATGGCATAGCCCATCCTGCTACTGGCTGGGAGAGGA
 CCAAGTATCTACAGTATGCCCCGGCTGTGTACTGACCATGGCTCTCAGCTGGTCACCATCACCAAC
 AGGTTTGAAGCAGGCCTTCGTGACGAGCCTCATCTATAACTGGGAGGGCGAGTACTTCTGGACGGCCCTCC
 AAGACCTCAACAGCACCAGGCTCCTTCGGTTGGCTCAGTGGGGATGAAGTCATGTATACCCATTGGAACCG
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 GTGAAGAACTGCACGTCGTTCCGGGCTCGCTACATCTGCCGACAGAGCCTGGGCACACCAGTGACACCCAG
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 GGGGTTTGCCGGGAGTTGGGGGCCAGCTGCTGAGTCTGGCCAGCTATGAGGAGGAACATTTTGTGGCCA
 ACATGCTCAACAAGATCTTTGGTGAATCAGAACCTGAGAACCATGAGCAGCACTGGTTTTGGATTGGCCT
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 TTTGCCGGAGCCAGCAGATGACGACAATATCCGAGGCTGTGCGGTGCTGGACCTGGCCTCCCTGCAGT
 GGGTAGCCATGCAGTCCAGACACAACCTGACTGGATCTGCAAGATCCCTAGAGGTGGATGTGCGGGA
 ACCAGACATTGGTCGGCAAGGCCGTCTGGAGTGGGTACGCTTTCAGGAGCGGAGTACAAGTTTTTTGAG
 CACCCTCCTCGTGGGCGCAGGCACAGCGCATCTGTACGTGGTCCAGGCAGAGCTGACCTCTGTTACA
 GCCAGGCAGAACTGGACTTCTGGGGCAAATATGCAGAAGTTGCTCTCAGACCAGGAGCAGCACTGGTG
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 TCCTGGGCACCGGAAAACCTCGACCCATTGGCAAGGACAAGAAGTGTGTGTACATGACAGCTAGACAAG
 AGGACTGGGGGACCAGAGGTGCCATACAGCCTTGCCTACATCTGTAACCGCAGCAATAGCTCTGGAGA
 GACTCGGCCTCACGACCTGCCACCGTCAACCTAGGAGGCTGCCCTCCGGCTGGAACAGTTTCTCAAC
 AAGTGTTCGGAATCCAGGGCCAGGACCCCGAGGACAGGGTGAATGGTCAGAGGCACAGTTCTCCTGTG
 AACAGCAAGAAGCCAGCTGGTCAACATTGCAACCCCTTAGAGCAAGCGTACATCACGGCCAGCCTCCC
 CAATGTGACCTTTGACCTCTGGATTGGCTGCTGAGGACTGCTCAGAGGGACTTCCAGTGGATTGAGCAGGAA
 CCTCTGCTCTATACCAATTGGGCACCAGGAGAGCCCTCTGGACCCAGCCCTGCTCCAGTGGCACCAAGC
 CGACCAGCTGTGCGGTGATTCTGACAGCCCTCAGCCACTTCACTGGCCGCTGGGATGATCGGAGCTG
 CACAGAGGAGACGCACGGCTTCTCTGCCAGAAGGGCACAGACCCTCGCTGAGCCCATCCCGGCAGCA
 GCACTCCCTGCCCGAGCACCAGCTCTCTACCTCAACCGCACCTTCCGGCTGCTGCAGAAGCCACTGC
 GCTGGAAGATGCTCTCCTGCTGTGTGAGAGCCGGAATGCCAGCCTGGCACAGTGCCTGATCCCTACAC
 CCAGGCCCTCCTTACGCAGGCTGCCCGGGGCTGCAAGCACCCTGTGGATCGGGCTGGCCAGTGAGGAG
 GGCTCAAGGCGGTATTCTGGCTCTCGGAGGAGCCTCTGAATTATGCGAGCTGGCAAGACGGGGAGCCCC
 AGCACACAGGGGGCTGTGCTATGTGGATGTGGATGGAACCTGGCGCACCCAGCTGTGACACCAAGCT
 GCAGGGGGCAGTGTGTGGGGTGAAGAGAGGGCCCTCCTCCAAGGATAAGCTACCGCGCAGCTGTCTCT
 CAGGGCCTGGCTGACTCGTCTGGATTCCCTTACGGGAGCACTGCTACTTTCCACACGGAGCTGCTGC
 TGGGCCACAAGGAGGCACTGCAGCGCTGCCAAAGAGCTGGTGGGACAGTTCTGTCCATTCTTGATGAGAT
 GGAGAATGTGTTGTCTGGGAGCACCTGCAGACCCTGAAACCCAGAGTCGGGGTGCCTGGTTGGGCATG
 AACTTCAATCCCAAAGGAGGCATGCTGGTCTGGCAAGACAATACAGCTGTGAACTATTCTAACTGGGGCC
 CCCCTGGCCTGGGCCCTAGCATGCTAAGCCACAACAGTGTCTACTGGATCCAGAGCAGCAGCGGGCTGTG
 GCGCCCCGGTGTGTACCAACGTCAACATGGGAGTTGTCTGCAAGCTCCCTAGAGTGGAGGAGAACGGC
 TTCCTGCCATCAGCAGCGCTTCTGAGAACCCGGTGGCCCTGGTGGTGGTGTGACTGCGGCAGTCCCTAC
 TCCTCTGGCCTTGTGACAGGGGCCCTCATCCTCTACCGCGCCGACAGAGTGGGAGCGTGGGTCTTT
 TGAGGGGGCTCGCTACAGTCGCAGCAGCGCTCTGGCCCGCAGAGGCCACCAGAGAACAATCCTGGTT
 TCTGACATGGAATGAACGAACAACAAGAAAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_001024687
 Insert Size: 4443 bp

OTI Disclaimer:	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).
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:	<ol style="list-style-type: none">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:	<u>NM_001024687.1</u> , <u>NP_001019858.1</u>
RefSeq Size:	4443 bp
RefSeq ORF:	4443 bp
Locus ID:	498011
UniProt ID:	<u>Q4TU93</u>
Cytogenetics:	10q32.1
Gene Summary:	May play a role as endocytotic lectin receptor displaying calcium-dependent lectin activity. Internalizes glycosylated ligands from the extracellular space for release in an endosomal compartment via clathrin-mediated endocytosis. May be involved in plasminogen activation system controlling the extracellular level of PLAUR/PLAU, and thus may regulate protease activity at the cell surface. May contribute to cellular uptake, remodeling and degradation of extracellular collagen matrices (By similarity). May participate in remodeling of extracellular matrix cooperating with the matrix metalloproteinases (MMPs) secreted by hepatic stellate cells. May mediate endocytosis of partially degraded collagens and glycoproteins produced in the extracellular matrix by MMPs.[UniProtKB/Swiss-Prot Function]