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Product datasheet for SC303200

Mannose Receptor (MRC1) (NM_002438) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mannose Receptor (MRC1) (NM_002438) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mannose Receptor
Synonyms:	bA541I19.1; CD206; CLEC13D; CLEC13DL; hMR; MMR; MRC1L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_002438 edited
GCGATCGCCATGAGGCTACCCCTGCTCCTGGTTTTTGCCTCTGTCATTCCGGGTGCTGTT
CTCCTACTGGACACCAGGCAATTTTTAATCTATAATGAAGATCACAAGCGCTGCGTGGAT
GCAGTGAGTCCCAGTGCCGTCCAAACCGCAGCTTGCAACCAGGATGCCGAATCACAGAAA
TTCCGATGGGTGTCCGAATCTCAGATTATGAGTGTTGCATTTAAATTATGCCTGGGAGTG
CCATCAAAAACGGACTGGGTTGCTATCACTCTCTATGCCTGTGACTCAAAAAGTGAATTT
CAGAAATGGGAGTGCAAAAATGACACACTTTTGGGGATCAAAGGAGAAGATTTATTTTTT
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ACGCTACTAGGCAATGCCAATGGAGCAACCTGTGCATTCCCGTTCAAGTTTGAAAACAAG
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ACTGACTATGACACAGACAAGCTATTTGGATATTGTCCATTGAAATTTGAGGGCAGTGAA
AGCTTATGGAATAAAGACCCGCTGACCAGCGTTTCCTACCAGATAAACTCCAAATCCGCT
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ACAGAGATTCATGAGCAAACATACCTGACAGGATTAACCAGTTCCTTGACCTCAGGACTC
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ATTGGACATACGCTTTCAACATTTGCAGAAGCAAACCAAACCTGTAATAATGAGAATGCT
TATTTAACAACTATTGAAGACAGATATGAACAAGCCTTCCTGACTAGTTTCGTTGGCTTA
AGGCCTGAAAAATATTTCTGGACAGGACTTTCAGATATACAAACCAAAGGGACTTTTCAG
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ACTAGTGATATGAAAGATCTCGTGGGCAATATTGAACAGAATGAACACTCGGTCATCTAG
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CAAGTGGCATAAAAATGTAGTCAGTTTTCTCTTTTACCAGTTTTTATTTCCACTCCAATT
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CAAGAGAGTTTTACAGGCTGAGTGTTGCAAATGTGTTCTTTGTCCTGTTATATGTATATC
AGGAATACAAGGATGTGAAATAAAACTGTAAATTTGCATAACTGGATGTACTTAGATAAT
GTGAAATAAACATTAAAGACAAGGTCTATTTTTAATA

Restriction Sites: Please inquire

ACCN: NM_002438

Insert Size: 4371 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).

OTI Annotation: The ORF of this clone has been fully sequenced and found to be a perfect match to the protein associated with NM_002438.1.

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_002438.1, NP_002429.1

RefSeq Size: 5185 bp

RefSeq ORF: 4371 bp

Locus ID: 4360

UniProt ID: P22897

Cytogenetics: 10p12.33

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The recognition of complex carbohydrate structures on glycoproteins is an important part of several biological processes, including cell-cell recognition, serum glycoprotein turnover, and neutralization of pathogens. The protein encoded by this gene is a type I membrane receptor that mediates the endocytosis of glycoproteins by macrophages. The protein has been shown to bind high-mannose structures on the surface of potentially pathogenic viruses, bacteria, and fungi so that they can be neutralized by phagocytic engulfment.[provided by RefSeq, Sep 2015]