

## Product datasheet for **SC300032**

### Mannan Binding Lectin (MBL2) (NM\_000242) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mannan Binding Lectin (MBL2) (NM_000242) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mannan Binding Lectin
Synonyms:	COLEC1; HSMBPC; MBL; MBL2D; MBP; MBP-C; MBP1; MBPD
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_000242 edited  
CCCTGAGTTTTCTCACACCAAGGTGAGGACCATGTCCTGTTCCATCACTCCCTCTCCT  
TCTCCTGAGTATGGTGGCAGCGTCTTACTCAGAACTGTGACCTGTGAGGATGCCAAAA  
GACCTGCCTGCAGTGATTGCCTGTAGCTCTCCAGGCATCAACGGCTTCCAGGCAAAGA  
TGGCGTGATGGCACCAAGGGAGAAAAGGGGAACCAAGGCAAGGCTCAGAGGCTTACA  
GGGCCCCCTGGAAAGTTGGGCTCCAGGAAATCCAGGGCTTCTGGGTACCAGGACC  
AAAGGGCCAAAAAGGAGACCCTGGAAAAAGTCCGGATGGTATAGTAGCCTGGCTGCCTC  
AGAAAGAAAAGCTCTGCAACAGAAATGGCACGTATCAAAAAGTGGCTCACCTTCTCTCT  
GGGCAACAAGTTGGGAACAAGTTCTTCTGACCAATGGTAAATAATGACCTTTGAAAA  
AGTGAAGCCTTGTGTCAAGTCCAGGCCTCTGTGGCCACCCAGGAATGCTGCAGA  
GAATGGAGCCATTGAGATCTCATCAAGGAGGAAGCCTTCTGGGCATCACTGATGAGAA  
GACAGAAGGGCAGTTTGTGGATCTGACAGGAAATAGACTGACCTACACAACTGGAACGA  
GGTGAACCCAACAATGCTGGTTCTGATGAAGATTGTGATTGCTACTGAAAAATGGCCA  
GTGGAATGACGTCCCCTGCTCCACCTCCCATCTGGCCGTCTGTGAGTTCCCTATCTGAAG  
GGTCATATCACTCAGGCCTCCTTGTCTTTTACTGCAACCCACAGGCCACAGTATGCT  
TGAAAAGATAAATTATATCAATTTCTCATATCCAGTATTGTTCTTTTGTGGCAATCA  
CTAAAAATGATCACTAACAGCACCAACAAAGCAATAATAGT



[View online »](#)

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_000242 unedited GTTTTCATTTGTATACCACTCATATAGGGCGGCCGCGATTGCGCCCTTCACCCCCTGAGTT TTCTCACACCAAGGTGAGGACCATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCCTGAG TATGGTGGCAGCGTCTTACTCAGAACTGTGACCTGTGAGGATGCCCAAAAGACCTGCC TGCAGTGATTGCCTGTAGCTCTCCAGGCATCAACGGCTTCCCAGGCAAAGATGGGCGTGA TGGCACCAAGGGAGAAAAGGGGAACCAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCC TGGAAAGTTGGGGCCTCCAGGAAATCCAGGGCCTTCTGGGTACCAGGACCAAAGGGCCA AAAAGGAGACCCTGGAAAAAGTCCGGATGGTGATAGTAGCCTGGCTCAGAAAAGAAA AGCTCTGCAAAACAGAAATGGCACGTATCAAAAAGTGGCTCACCTTCTCTGGGCAACA AGTTGGGAACAAGTTCTTCTGACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGC CTTGTGTGTCAAGTTCAGGCCTCTGTGGCCACCCCAGGAATGCTGCAGAGAATGGAGC CATTGAGAATCTCATCAAGGAGGAAGCCTTCTGGGCATCACTGATGAGAAGACCAGAAG GCAGTTTGTGGATCTGACAGGAAATAGACTGACCTACACAACTGGGACGAGGGTGAACC CAACAATGCTGGTTCTGATGAAGATTGTGATTGCTACTGAAAAATGGCCAGTGGATGA CGTCCCCTGCTCCACCTCCATCTGGGCGTCTGTGAGTCCCCTATCTGAAGGTC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000242
<b>Insert Size:</b>	1000 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>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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><a href="#">NM_000242.1</a></u> , <u><a href="#">NP_000233.1</a></u>
<b>RefSeq Size:</b>	3605 bp
<b>RefSeq ORF:</b>	747 bp
<b>Locus ID:</b>	4153
<b>UniProt ID:</b>	<u><a href="#">P11226</a></u>
<b>Cytogenetics:</b>	10q21.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Complement and coagulation cascades

**Gene Summary:**

This gene encodes the soluble mannose-binding lectin or mannose-binding protein found in serum. The protein encoded belongs to the collectin family and is an important element in the innate immune system. The protein recognizes and binds to mannose and N-acetylglucosamine on many microorganisms, including bacteria, yeast, and viruses including influenza virus, HIV and SARS-CoV. This binding activates the classical complement pathway. Deficiencies of this gene have been associated with susceptibility to autoimmune and infectious diseases. [provided by RefSeq, Jun 2020]