

## Product datasheet for **MC205400**

### Mr1 (NM\_008209) Mouse Untagged Clone

#### Product data:

|                           |                                      |
|---------------------------|--------------------------------------|
| Product Type:             | Expression Plasmids                  |
| Product Name:             | Mr1 (NM_008209) Mouse Untagged Clone |
| Tag:                      | Tag Free                             |
| Symbol:                   | Mr1                                  |
| Synonyms:                 | H2Is                                 |
| Mammalian Cell Selection: | Neomycin                             |
| Vector:                   | PCMV6-Kan/Neo (PCMV6KN)              |
| E. coli Selection:        | Kanamycin (25 ug/mL)                 |



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**Fully Sequenced ORF:** >BC026137  
 CCACGCGTCCGCCACGCGTCCGCGGTAGAGTACAAGTTCTCAAAAGATTCATCAGGGGTCTGCTACTGT  
 CTGAGGTTAAAAAAAAAAAAATCAGAAAAGCAAAGGACTTCAGCGTGGGTTGATGATGCTCCTGTTACCT  
 CTGCTCGCTGATTCTTGGTGAAGCGAAGCCATACTCGGACCCACTCGTGAGATATTTTCGTCTGGCTG  
 TTTCCGATCCTGGTCCCCTCGTCCCTGAATTTATCTCTGTTGGGTATGTGGACTCACACCCTATCACTAC  
 ATACGACAGTGTCACTCGACAGAAGGAGCCGAAAGCTCCATGGATGGCAGAGAACCTGGCACCTGATCAC  
 TGGGAGAGGTACACTCAGCTGCTAAGGGGCTGGCAGCAGACATTCAAGGCGGAGCTGAGGCACCTACAGA  
 GGCACTACAACCACTCAGGGCTTACACCTACCAGAGAATGATTGGCTGTGAGTTGCTAGAAGATGGCAG  
 CACCACAGGGTTTCTCCAGTATGCATATGATGGACAAGATTTTCATCATCTTCAATAAAGACACCCTCTCC  
 TGGTTGGCCATGGATTATGTGGCTCACATCACCAAGCAAGCATGGGAGGCCAACCTGCATGAGTTGCAAT  
 ACCAAAAGAACTGGCTGGAAAGAAGATGCATTGCCTGGCTAAAGAGGTTCTTGAATATGGAAGAGATAC  
 CCTAGAAAAGAACAGAGCATCCAGTGGTAAGAACAACCTCGAAAGGAACTTTTCCAGGGATTACAACCTTC  
 TTCTGCAGAGCTCATGGCTTCTACCCACCAGAAATTTCCATGACATGGATGAAAAATGGGAAGAAATTG  
 CCCAAGAAGTGGATTACGGAGGGGTACTCCCAGCGGGATGGAACCTATCAAACGTGGCTGTCAGTTAA  
 TCTGGATCCTCAGAGCAATGATGTTTATTCTTGTGATGTGGAGCACTGTGGTCGCCAAATGTTCTGGAG  
 GCCCTCGGGAATCAGGGGACATCCTTCGAGTGAGCAGCATCTCTGGAACCACAATTCTCATCATCGCCC  
 TGGCTGGAGTTGGTGTCTGATCTGGAGAAGGTCACAAGAACTAAAAGAAGTCATGTACCAACCCACCCA  
 AGTGAATGAGGGAAGCTCTCCCTCTTAGGAGCCACAATCTCTGCTCTCAGGCATCCGCATGTCTTGGCCA  
 TACTCCTGATGCAACCGGGGACTGTAAACTGAGCACTTGTGACAGGAAGATAGGAGCTACAAATTTTTC  
 TTCATTCTTGGCTCCAGAAGAGCTGTCAACTTTTAGGCTCTTGTAGACTCCTTTATCACAGTCAACTT  
 TAAATATAGTTTGTCTCATGACCAATACTTCCAATATGTAGTTCTCAATAGTGATTTACAAGTAGAT  
 CACAGAGTACAGAGCCGCAAGCAACTTCTCACCTAAGCAGGAGATGTCTTCTAAAATGTCATAGACTT  
 GAGCATTAGCCTTCACTCAACATTATGTGCAAGTTCCCCATTCTACTACAAAACAGCCTTCTTGTGTTCA  
 TTTTCTCTCTGAGAATGTTTACCATGTAAGAACTTTGACCACTATGGCTCTCATGTTTGAAGATCTATA  
 AGTAGGGTTGAGCCAACCCATGAAAATAGCCAGCAAGTTTCTACAGCAGCCTTTGAGTGGACGAGTCACT  
 ATATACATATCATGGCCCAAGGGGAGGCAGAAGTATCCAGTTCATGGTGGCTCTGTGAGAAAGCAAGGAA  
 TATTGCATGTTTGTCTGGCTACATTTATGGCAATGACTTCCTTTGCTTTTACTGTTTCTGTGAGAAATTA  
 GAACAATAATTTATCAAGCTGAGTGTGATGGGAATCTTAGAAGCCAGTACTCAGGAAGCTGAAGCAGGT  
 AGATTTTACATTTGGGGTAGCTTGAGTACACAATGAAACCCTATCTGAAATAAACCAAAAACAACAACA  
 ACAGCAACACACTTAACAGAACTAAAACAATCATTACCAGACATATTGTCCCTCCCATGGAACGGCAGA  
 CCTAGACTCACTTGAATATTTCAACATGAAATAATAGTGTGGCTGGAGATGTCCAGGTGGTGAAGA  
 TGCTGTGGCCAAAGCATGTCCACCTGAGGTCAGACACCCTGACCCACACACACAGTGAAGAAAAAAACT  
 GACTCCTGAAAGTCGCCCTCTGACCTCTCCATGAGTGCTAAACTAAGGTTTTATTTTTGTTTTGTTTT  
 AATCTGACAAAATGTGTTTCATATGCTTATGTCTCAAAACGAGTTCTTTACTCTGGTATTGGAGACTGA  
 ACCAGTACAGAAAAGACAGGAGTTAGAATTGAACCTTTGGGGGTTTAGGGTGTAGCTCAGTGGCAGAGAA  
 TTTTCTTAGCATGTATGAGGCCCTGAGGTCAGTCTTCCAGCACTTTGAACACACACACATACACACACCAC  
 CACCACCACCACCTAATAACAAACAAAACTAAACTTTGGATCTTTCTTCTGTAAGTGGTTTTAAAT  
 TAAATTGTTTCTAATAA  
 AA A

- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_008209
- Insert Size:** 1026 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:**

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:** [BC026137](#), [AAH26137](#)

**RefSeq Size:** 2661 bp

**RefSeq ORF:** 1026 bp

**Locus ID:** 15064

**UniProt ID:** [Q8HWB0](#)

**Cytogenetics:** 1 G3

**Gene Summary:** Antigen-presenting molecule specialized in presenting microbial vitamin B metabolites (By similarity). Involved in the development and expansion of a small population of T-cells expressing an invariant T-cell receptor alpha chain called mucosal-associated invariant T-cells (MAIT). MAIT lymphocytes are preferentially located in the gut lamina propria and therefore may be involved in monitoring commensal flora or serve as a distress signal. Expression and MAIT cell recognition seem to be ligand-dependent.[UniProtKB/Swiss-Prot Function]