

Product datasheet for MR205125

Mr1 (NM_008209) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mr1 (NM_008209) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mr1
Synonyms:	H2Is
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205125 representing NM_008209 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGCTCCTGTTACCTCTGCTCGCTGTATTCTTGGTGAAGCGAAGCCATACTCGGACCCACTCGCTGA
GATATTTTCGCTAGCTGTTCCGATCCTGGTCCCCTCGTCCCTGAATTTATCTCTGTTGGGTATGTGGA
CTCACACCCTACTACTACATACGACAGTGTCACTCGACAGAAGGAGCCGAAAGCTCCATGGATGGCAGAG
AACCTGGCACCTGATCACTGGGAGAGGTACACTCAGCTGCTAAGGGGCTGGCAGCAGACATTCAAGGCGG
AGCTGAGGCACCTACAGAGGCACTACAACCACTCAGGGCTTCACACCTACCAGAGAATGATTGGCTGTGA
GTTGCTAGAAGATGGCAGCACCACAGGGTTTCTCCAGTATGCATATGATGGACAAGATTTTCATCATCTTC
AATAAAGACACCCCTCTCCTGGTTGGCCATGGATTATGTGGCTCACATCACCAAGCAAGCATGGGAGGCCA
ACCTGCATGAGTTGCAATACAAAAGAAGTGGCTGGAAGAAGAATGCATTGCCTGGCTAAAGAGGTTCTT
GGAATATGGAAGAGATACCCTAGAAAAGAACAGAGCATCCAGTGGTAAGAACAACCTCGAAAGGAACTTTT
CCAGGGATTACAACCTTTCTTCTGCAGAGCTCATGGCTTACCCACCAGAAAATTTCCATGACATGGATGA
AAAATGGGGAAGAAATTGCCAAGAAGTGGATTACGGAGGGTACTTCCCAGCGGGGATGGAACCTATCA
AACGTGGCTGTCAGTTAATCTGGATCCTCAGAGCAATGATGTTTATTCTTGTGTCATGTGGAGCACTGTGGT
CGCCAAATGGTTCTGGAGGCCCTCGGGAATCAGGGGACATCCTTCGAGTGAGCAGCATCTCGGAACCA
CAATTCATCATCGCCCTGGCTGGAGTTGGTGTCTGATCTGGAGAAGTCCACAAGAAGTAAAAGAAGT
CATGTACCAACCCACCAAGTGAATGAGGGAAGCTCTCCCTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205125 representing NM_008209
Red=Cloning site Green=Tags(s)

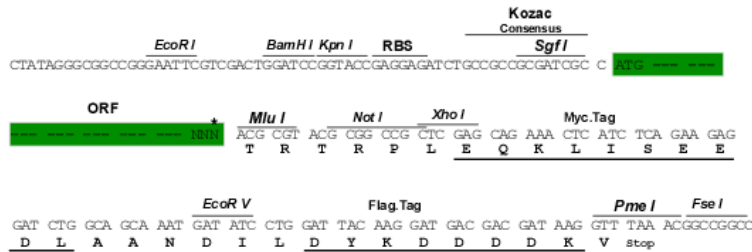
MMLLLPLLAVFLVKRSHRTRHSLRYFRLAVSDPGPVVPEFISVGYVDSHPITTYDSVTRQKEPKAPWMAE
 NLAPDHWERYTQLLRGWQQTFFKAELRHLQRHYNHSGLHTYQRMIGCELLEDGSTTGFLQYAYDGGDFIIF
 NKDTLSWLAMDYVAHITKQAWAENLHELQYQKNWLEEECIAWLKRFLEYGRDTERTEHPVVRTTRKETP
 PGITTTFFCRAHGFYPPEISMTWMKNGEEIAQEVDYGGVLPSPGDGTQYQWLSVNLDPQSNVYSSCHVEHCG
 RQMVLEAPRESGDILRVSTISGTTILIIALAGVGLIWRRSQELKEVMYQPTQVNEGSSPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008209

ORF Size: 1023 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_008209.5](#)

RefSeq Size: 2509 bp

RefSeq ORF: 1026 bp

Locus ID: 15064

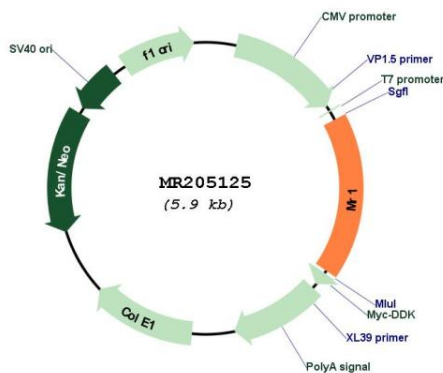
UniProt ID: [Q8HWB0](#)

Cytogenetics: 1 G3

MW: 39.8 kDa

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]

Product images:



Circular map for MR205125