

Product datasheet for RC231141

MR1 (NM_001194999) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MR1 (NM_001194999) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MR1
Synonyms:	HLALS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC231141 representing NM_001194999 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAACTGATGGCGTTCCTGTTACCTCTCATCATTGTGTTAATGGTGAAGCACAGCGATCCCGGA
CGCACTCTCTGAGATATTTTCGCTGGCGTTCGGATCCCATCCATGGGGTCCCTGAATTTATTTTCGGT
TGGGTACGTGGACTCGCACCTATCACCACATATGACAGTGTCACTCGGCAGAAGGAGCCACGGGCCCA
TGGATGGCAGAGAACCTCGGCCTGATCACTGGGAGAGGTACACTCAGCTGCTGAGGGGCTGGCAGCAGA
TGTTCAAGGTGGAAGTGAAGCGCTACAGAGGCACTACAATCACTCAGATAATGTGGCTCACACCATCAA
GCAGGCATGGGAGCCAATCAGCATGAGTTGCTGTATCAAAGAATTGGCTGGAAGAAGAATGTATTGCC
TGGCTAAAGAGATTCTGGAGTATGGGAAAGACACCTACAAAGAACAGAGCCCCACTGGTCAGAGTAA
ATCGCAAAGAACTTTCCAGGGTTACAGCTCTCTTCTGCAAAGCTCATGGCTTTACCCCCAGAAAT
TTACATGACATGGATGAAAAACGGGAAGAAATTTGTTCAAGAAATGATTATGGAGACATTTCTCCAGT
GGGGATGGAACCTATCAGGCGTGGGCATCAATTGAGCTTGATCCTCAGAGCAGCAACCTTACTCCTGTC
ATGTGGAGCACTGCGGTGCCACATGGTTCTTCAGTCCCCAGGAATCAGAACTATCCCTCTTGAT
GAAAGCTGTCTGGGTCCATTGTCCTTGTCATTGTGCTGGCTGGAGTTGGTGTCTAGTCTGGAGAAGA
AGGCCCCGAGAGCAAAATGGAGCCATCTACCTTCCAACACCAGATCGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC231141 representing NM_001194999
Red=Cloning site Green=Tags(s)

MGELMAFLLPLIIVLMVKHSDSRTHSLRYFRLGVSDPIHGVPFISVGYVDSHPITTYDSVTRQKEPRAP
 WMAENLAPDHWERYTQLLRGWQQMFKVELKRLQRHYNHSDNVAHTIKQAWEANQHELLYQKNWLEEECIA
 WLKRFLEYGKDTLQRTEPPLVRVNRKETFPGVTLFCKAHGFYPPEIYMTWMKNGEEIVQEIDYGDILPS
 GDGTYQAWASIELDPQSSNLYSCHVEHCVMVLQVPQSEETIPLVMKAVSGSIVLVIVLAGVGVLVWRR
 RPREQNGAIYLPDR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8050_c02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001194999

ORF Size: 888 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_001194999.1](#), [NP_001181928.1](#)

RefSeq ORF: 891 bp

Locus ID: 3140

UniProt ID: [Q95460](#)

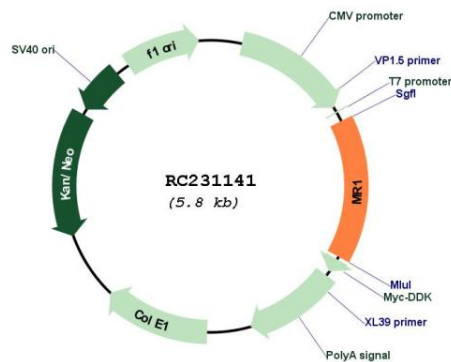
Cytogenetics: 1q25.3

Protein Families: Transmembrane

MW: 34.7 kDa

Gene Summary: MAIT (mucosal-associated invariant T-cells) lymphocytes represent a small population of T-cells primarily found in the gut. The protein encoded by this gene is an antigen-presenting molecule that presents metabolites of microbial vitamin B to MAITs. This presentation may activate the MAITs to regulate the amounts of specific types of bacteria in the gut. Several transcript variants encoding different isoforms have been found for this gene, and a pseudogene of it has been detected about 36 kbp upstream on the same chromosome. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RC231141