

Product datasheet for SC119190

MR1 (NM_001531) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MR1 (NM_001531) Human Untagged Clone
Tag:	Tag Free
Symbol:	MR1
Synonyms:	HLALS
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC119190 sequence for NM_001531 edited (data generated by NextGen Sequencing)

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ATGGGGGAACCTGATGGCCTTCTGTTACCTCTCATCATTGTGTTAATGGTGAAGCACAGC
GATTCCCGGACGCACTCTCTGAGATATTTTCGCCTGGGCGTTTCGGATCCCATCCGTGGG
GTCCCTGAATTTATTTTCGGTTGGGTACGTGGACTCGCACCCATCACCACATATGACAGT
GTCACCTCGGCAGAAGGAGCCACGGGCCCATGGATGGCAGAGAACCTCGCGCCTGATCAC
TGGGAGAGGTACACTCAGCTGCTGAGGGGCTGGCAGCAGATGTTCAAGGTGGAACCTGAAG
CGCCTACAGAGGCACTACAATCACTCAGGGTCTCACACTTACCAGAGAATGATTGGCTGT
GAGCTGCTGGAGGATGGAAGCACACAGGATTTCTGCAGTATGCATATGACGGGCAGGAT
TTCCTGATCTTCAATAAAGACACCCTCTCTGGCTGGCTGTAGATAATGTGGCTCACACC
ATCAAGCAGGCATGGGAGGCCAATCAGCATGAGTTGCTGTATCAAAAGAATTGGCTGGAA
GAAGAATGATTGCCTGGCTAAAGAGATTCTGGAGTATGGGAAAGACACCCTACAAAGA
ACAGAGCCCCCACTGGTCAGAGTAAATCGCAAAGAACTTTCCAGGGGTTACAGCTCTC
TTCTGCAAAGCTCATGGCTTTTACCCCCAGAAATTTACATGACATGGATGAAAAACGGG
GAAGAAATTGTCCAAGAAATTGATTATGGAGACATTCTCCAGTGGGGATGGAACCTAT
CAGGCGTGGGCATCAATTGAGCTTGATCCTCAGAGCAGCAACCTTTACTCCTGTCATGTG
GAGCACTGCGGTGTCCACATGGTTCTTCAGGTCCCCCAGGAATCAGAACTATCCCTCTT
GTGATGAAAGCTGTCTCTGGGTCCATTGTCTTGTGCTGCTGGAGTTGGTGTT
CTAGTCTGGAGAAGAAGGCCCGAGAGCAAATGGAGCCATCTACCTTCCAACACCAGAT
CGATGA
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Clone variation with respect to NM_001531.2
116 a=>g



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001531 unedited TCGATTTGATCGATCCTTAGGCGCCGGATTGCGCGAGCGGAAAGAAAGACTATGGGGGAA CTGATGGCGTTTCTGTTACCTCTCATCATTGTGTTAATGGTGAAGCACAGCGATTCCCGG ACGCACTCTTGAGATATTTTCGCTGGGCGTTTCGGATCCCATCCGTGGGGTCCCTGAA TTATTTTCGGTTGGGTACGTGGACTCGCACCCATCACCACATATGACAGTGTACTCGG CAGAAGGAGCCACGGGCCCATGGATGGCAGAGAACCTCGCGCTGATCACTGGGAGAGG TACACTCAGCTGCTGAGGGGCTGGCAGCAGATGTTCAAGGTGGAAGTGAAGCGCCTACAG AGGCACTACAATCACTCAGGGTCTCACACTTACCAGAGAATGATTGGCTGTGAGCTGCTG GAGGATGGAAGCACACAGGATTCTGCAATATGACATATGACGGGCAGGATTTCTGATC TTCAATAAAGACACCCTCTCCTGGCTGGCTGTAGATAATGTGGCTCACACCATCAAGCAG GCATGGGAGGCCAATCAGCATGAGTTGCTGTATCAAAGAATTGGCTGGAAGAAGAATGT ATTGCCTGGCTAAAGAGATTCTGGAGTATGGGAAAGACACCCTACAAAGAACAGAGCCC CCACTGGTCAGAGTAAATCGCANAGAACTTTCCAGGGTTACAGCTCTCTTCTGCANA GCTCATGGCTTTTACCCCCAGAAATTTACATGACATGGATGANAAACGNGAAGAAAT GTCCAAGAAATTGATTATGGAGACATTCTCCCCAGTGGGATGGAACCTATCANGCGTGG GCATCAATTGAGCTTGATCCTCAGAGCAGCACCCCTACTNCTGTCATGTGGAGCACTGCG GTGTCCACATGGTNTCTCA
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001531 unedited ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGGAGACGAGTCTTGCTC TGTTGCCAGGCTGGAGTGCAGCGGTGTGATCTCGGCTCACTGCCACCTCTGCCTTATAG ATTCAAGTGATTCTCCTGCCTTAGCCTCCCAAGTAGCTGGGACTATAGGCACATGCCACC ATGCCAGCTAATTATTTGTATTTAGTAGAGACAGGGTTTACCCTGTTGCCAGGCTG GTCTTGAACCTCTGAGCTCAGGGAATCCGCTGCCTCAGCCTCCCAAAGTCTAGGATTA CAGGCGTGAGCCACTGTCCCGGCTGAAGGTACCTTTATCTGAGGCTGTAATGATTA GCCAAAGTCAAATGTCACAGTCAAGGTCAAGGGAGAGCAGAGTCAAACCTGAGGTGCA GGACAAAAGCCACTTGTCAAAGCTCAGGCTCAAGTAAAGCATTAGGGCTCAGGTGCAG AGTCAAACGGGGTCAGAGAAGTACGACCGAGGAATGTGTGACTGGCAGCCCCAGGCAAG TAGCTCCACATGGCAGGGCAGTAGGCGAGGCTCAGGGGTTGGGGATAGTAAGGAACATT AACGGGATGTTTCTCACCCTGAGGCTTTTATTGATTCCAGCGCATATGTATGAAG ACAACCTATGTATGAAGGCAAGTTATGCCAGCTACCATGAGGCAATACAGGAAAGGCAG AAATGAGCATTGAGCCCTCTCCTGACACCAAATATCCCGCCTAATTACTAATATTAATA CTATTTTGAGATAAAGCTTCACTCTGTGCCAGGCTGCAGTGCAGCCGGCGTGATCCCCG CCTCACTGCAATCTGTCTTCCCGGTTAAGGCATTCCCCTGGTTCAGCCTTCNAGAGT AGTGGGCCCACCCGACCGCACACCCTTGCCAGTTTATTTTTTTGTATTTTACAAAGAA AGAGGTTACCTTAATTGGCAGNATAGGTTTTAATTTCCGCAACTTCAGAACCCGCCCGC CTCTGTCGCTACAAGAGAT
Restriction Sites:	NotI-NotI
ACCN:	NM_001531
Insert Size:	2880 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).
RefSeq:	NM_001531.1 , NP_001522.1
RefSeq Size:	1263 bp
RefSeq ORF:	1026 bp

Locus ID: 3140

UniProt ID: [Q95460](#)

Domains: MHC_I, IGc1

Protein Families: Transmembrane

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.