

Product datasheet for **MC223314**

Itgae (NM_172944) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Itgae (NM_172944) Mouse Untagged Clone
Tag: Tag Free
Symbol: Itgae
Synonyms: A530055J10; alpha-E1; alpha-M290; aM290; CD103
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223314 representing NM_172944
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGTGGCTCTCCATACCCCTCTCTGCATGGCCAGCCTGAAGCCCCAGGGAGCCTTCAATTTGGATG
 TGGACTGGGCCTGGGTCACAGCACTCCAGCCAGGTGCACCGGCTGTGCTCAGCTCCCTTCTGCATCAAGA
 CCCCAGCAACAACCAGACCTGCCTCCTGGTAGCCAGACGCAGCTCCAACAGGAATACAGCCGCCCTGTAT
 CGATGCGCTATATCCATCAGTCCAGATGAAATTGCTTGCCAGCCAGTGGAGCACATCTGTATGCCAAAGG
 GCAGGTACCAGGGAGTGACATTGGTTCGGGAACCAATGGTGTGGTGGTGCATTACAGGTACAGGCCCG
 GAAGTTCGCGAGCCTCAACTCAGAGCTCACGGGTGCCTGCAGCCTACTCACCCCAATTTGGACCTCCAG
 GCCAAGCCTACTTCTCTGACCTCGAAGGGTTCCTGGATCCAGGAGCACATGTGGACTCTGGTGACTACT
 GTAGAAGCAAAGGAGGCAGCACAGGGGAGGAGAAGAAGTCAGCCAGGAGACGCCGGACAGTGGAGGAGGA
 AGACGAGGAGGAAGATGGCACTGAGATCGCTATTGTCTGGATGGCTCAGGAAGCATTGAACCTCAGAC
 TTCCAGAAGGCCAAAAATTCATCTCTACCATGATGAGGAATCTATGAGAAGTGTGGTGGTGAACCT
 TTGCCCTGGTGCAGTATGGGGCCGTGATCCAGACTGAGTTGATCTTCAAGAGAGCCGGGACATTAACGC
 CTCCTTGCCAAAGTTCAGAGCATCGTTCAAGTGAAGGAAGTCACTAAGACCGCCTCAGCCATGCAGCAT
 GTCCTAGACAATATCTTCAATCCAAAGCCGTGGCTCCAGAAAAAAGCATTGAAGGTCATGGTGGTACTTA
 CTGATGGTGACATATTTGGGGACCTCTCAATCTTACGACTGTCACTCAACTCCCCAAAGATGCAGGGTGT
 TGTGCGCTTTGCCATTGGGGTGGGTGATGCATTCAAGAATAACAACACTTACAGAGAAGTGAAGCTGATT
 GCCTCAGACCCCAAGAGGCCACACTTCAAGGTGACCAACTACTCAGCTCTGGATGGGCTGCTGAGCA
 AGCTGCAACAACACATCGTTTATGGAAGGTACAGTTGGAGATGCCCTTCAATATCAACTCGCACAGAC
 TGGTTTCAGTGCCAGATCCTGGACAAGGGCAGGTGTTGCTTGGCACTGTGGGGCCTTAACTGGTCT
 GGGGGTGCCTGCTCTACAGCACACAGAATGGCCGGGGCTGCTTCTAAACCAGACAGCCAAGGAGGACT
 CCAGGACTGTACAGTACAGCTACCTAGGTTACTCCCTTGCAGGTGCTACACAAGGCCACCGCGTCTCTTA
 CGTGGCAGGGGCTCCAAGGCACAAGCTCCGTGGGGCTGTGTTGAGCTCCGGAAGGAGGACAGAGAGGAG
 GATGCCTTTGTGCGACGGATAGAAGGAGAGCAGATGGGGTCTACTTTGGCTCTGTGCTGTGCCCTGTGG



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ATATCGACATGGATGGGACCACAGATTTTCTACTGGTGGCTGCTCCATTTTACCACATCCGTGGAGAAGA
 AGGCAGAGTCTATGTGTACCAGGTGCCTGAGCAGGATGCTTCCTTCTCCTTGGCACACACTGAGTGGG
 CACCCTGGGCTACCAATAGCCGCTTTGGCTTTGCCATGGCAGCTGTGGGGGATATCAACCAAGACAAAT
 TCACAGATGTGGCCATTGGGGCCCTCTGGAGGGTTTTGGGGCAGGTGACGGGGCCAGCTATGGCAGCGT
 GTACATCTACAACGGACTCAGGTGGCTTGATGACAGTCTTCCCAGCAGATCCGAGCCTCCTCTGTG
 GCCTCGGACTCCACTACTTCGGCATGTCTGTGTCGGTGGTGTAGATTTCAATGGCGATGGCCTTGCCG
 ATATCACAGTTGGCTCTCGGACTCGGCGTTGTGCTCCGCTCACGCCCTGTGGTTGACCTGACCGTATC
 TATGACCTTTACCCCGATGCACTGCCATGGTCTTCATAGGCAAGATGGATGTAAAACGTGTTTTGAA
 GTTGACTTTCAGGCGTAGCTTCTGAGCCAGGCCCTTAGAGAGATGTTCCCTCAACTTTACGGTGGATGTGG
 ATGTGACCAAGCAAAGGCAGAGGCTGCAGTGTGAGGACTCGAGCGTTGTGAGAGCTGCCTCAGGAAGTG
 GAACGGAGGGTCTTTCTGTGTGAACACTTCTGGCTCATCTCCACAGAGGAGCTTTGTGAGGAGGACTGC
 TTCTCCAACATCACCATCAAGGTCACCTACGAGTTCAGAGCTGTGGGGAAGGAGGACTACCCCAACC
 CCACCCTGGACACTACAAGGAACCTCTGCCATCTCCAGCTGCCCTACGAGAAGGACTGCAAGAACAA
 AGTGTTCATCGATCGATCCAGCTGACCACCAACATCTCCAGCAGGAAGTGGTGGTGGCGTCACA
 AAGGAGGTGACCATGAACATCAGCTGACTAATCTGGAGAGGATTCTACATGACAAACATGGCTCTCA
 ATTATCCAGAACTTACAGTTAAGAAGATACAAAAGCCAGTATCTCCAGATGTTCAAGTGTGATGACCC
 CAAGCCAGTTGCTTCTGTCTGGTTCATGAACTGCAAGATTGGTCAACCCATACTCAAGAGATCATCTGTG
 AATGTCTCAGTAACTTGGCAGCTAGAGGAGAGTGTCTTTCAAATAGGACAGCAGATACACTGTGACCA
 TCTCCAATTCCAATGAGAAGTCTTTGGCCAGAGAGACACGCAGCCTTCAATTCAGACATGCCTTCATTGC
 AGTTCTTTCCAGACCCTCAGTGTGATGACATGAACACAAGCAAAGCCCTTCTGACCACAAAGAATTCTTC
 TTCAATGTGCATGGGGAGAATCTTTTGGAGCTGTATTCCAGTTGCAAATTTGTGTCCTTCAAATAC
 AAGATTTCCAGATTGTAAGAGTGAAGAATCTGACAAAGACTCAGGTATTTAAATGGGAGTCTGTGATTGC
 ATCGCTTTCAAAGACTACAGATTCTCAAAGATA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_172944

Insert Size:

3117 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:
[NM_172944.2](#), [NP_766532.1](#)
RefSeq Size:

3813 bp

RefSeq ORF:

3117 bp

Locus ID: 16407

Cytogenetics: 11 45.22 cM

Gene Summary: Integrin alpha-E/beta-7 is a receptor for E-cadherin. It mediates adhesion of intra-epithelial T-lymphocytes to epithelial cell monolayers. Mice expressing a null mutation of the alpha-E subunit gene exhibit a marked reduction in the numbers of intraepithelial lymphocytes in the gut and in the development of gut-associated lymphoid aggregates, supporting a specific role for this integrin in mediating retention of lymphocytes in the intestinal wall.[UniProtKB/Swiss-Prot Function]