

Product datasheet for **MC223790**

Itgae (NM_008399) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itgae (NM_008399) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Itgae
Synonyms:	A530055J10; alpha-E1; alpha-M290; aM290; CD103
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223790 representing NM_008399 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTGGCTCTCCATACCCTTCTCTGCATGGCCAGCCTGAAGCCCCAGGGAGCCTTCAATTTGGATG
TGGACTGGCCTGGGTACAGCACTCCAGCCAGGTGCACCGGCTGTGCTCAGCTCCCTTCTGCATCAAGA
CCCCAGCAACAACCAGACCTGCCTCCTGGTAGCCAGACGCAGCTCCAACAGGAATACAGCCGCCCTGTAT
CGATGCGCTATATCCATCAGTCCAGATGAAATTGCTTGCCAGCCAGTGGAGCACATCTGTATGCCAAAGG
GCAGGTACCAGGGAGTGACATTGGTCGGGAACCACAATGGTGTGTTTGGTGTGCATTACAGGTACAGCCCCG
GAAGTTCGCGAGCCTCAACTCAGAGCTCAGGGTGCCTGCAGCCTACTCACCCCAATTTGGACCTCCAG
GCCAAGCCTACTTCTCTGACCTCGAAGGGTTCCTGGATCCAGGAGCACATGTGGACTCTGGTGACTACT
GTAGAAGCAAAGGAGGCAGCACAGGGGAGGAGAAGAAGTCAGCCAGGAGACGCCGGACAGTGGAGGAGGA
AGACGAGGAGGAAGATGGCACTGAGATCGCTATTGTCCTGGATGGCTCAGGAAGCATTGAACCTCAGAC
TTCCAGAAGGCCAAAAATTTTCATCTCTACCATGATGAGGAATCTATGAGAAGTGTGTTGAGTGCAACT
TTGCCCTGGTGCAGTATGGGGCCGTGATCCAGACTGAGTTTGTCTTCAAGAGAGCCGGGACATTAACGC
CTCCCTTGCCAAAGTTCAGAGCATCGTTCAAGTGAAGGAAGTCACTAAGACCCCTCAGCCATGCAGCAT
GTCCTAGACAATATCTTCATTCCAAGCCGTGGCTCCAGAAAAAAGCATTGAAGTCAATGGTGGTACTTA
CTGATGGTGACATATTTGGGGACCCTCTCAATCTTACGACTGTCACTCAACTCCCCAAGATGCAGGGTGT
TGTGCGCTTTGCCATTGGGGTGGGTGATGCATTCAAGAATAACAACACTTACAGAGAAGTGAAGCTGATT
GCCTCAGACCCCAAGAGGCCACACTTCAAGGTGACCAACTACTCAGCTCTGGATGGGCTGTGAGCA
AGCTGCAACAACACATCGTTTCATATGGAAGGTACAGTTGGAGATGCCCTTCAATATCAACTCGCACAGAC
TGGTTTCAGTGCCAGATCCTGGACAAGGGCAGGTGTTGCTTGGCACTGTGGGGCCTTTAACTGGTCT
GGGGTGCCTGCTCTACAGCACACAGAATGGCCGGGCTGCTTCTAAACCAGACAGCAAGGAGGACT
CCAGGACTGTACAGTACAGCTACCTAGGTTACTCCCTTGGCGTGTACACAAGGCCACGGCGTCTCTTA
CGTGGCAGGGCTCCAAGGCACAAGCTCCGTGGGCTGTGTTGAGCTCCGAAGGAGGACAGAGAGGAG



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GATGCCTTTGTGCGACGGATAGAAGGAGAGCAGATGGGGTCTACTTTGGCTCTGTGCTGTGCCCTGTGG
 ATATCGACATGGATGGGACCACAGATTTTCTACTGGTGGCTGCTCCATTTTACCACATCCGTGGAGAAGA
 AGGCAGAGTCTATGTGTACCAGGTGCCTGAGCAGGATGCTTCCTTCTCCTTGGCACACACTGAGTGGG
 CACCCTGGGCTCACCAATAGCCGCTTTGGCTTTGCCATGGCAGCTGTGGGGGATATCAACCAAGACAAAT
 TCACAGATGTGGCCATTGGGGCCCTCTGGAGGGTTTTGGGGCAGGTGACGGGGCCAGCTATGGCAGCGT
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 ATATCACAGTTGGCTCTCGGACTCGGCCGTTGTGCTCCGCTCACGCCCTGTGGTTGACCTGACCGTATC
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 GTTGACTTTCAGGCGTAGCTTCTGAGCCAGGCCTTAGAGAGATGTTCTCAACTTTACGGTGGATGTGG
 ATGTGACCAAGCAAAGGCAGAGGCTGCAGTGTGAGGACTCGAGCGGTTGTGAGAGCTGCCTCAGGAAGTG
 GAACGGAGGGTCTTTCTGTGTGAACACTTCTGGCTCATCTCCACAGAGGAGCTTTGTGAGGAGGACTGC
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 ATTATCCAGAACTTACAGTTAAGAAGATACAAAAGCCAGTATCTCCAGATGTTCAAGTGTGATGACCC
 CAAGCCAGTTGCTTCTGTCTGTGCAACTGCAAGATTGGTCACCCCATACTCAAGAGATCATCTGTG
 AATGTCTCAGTAACTTGGCAGCTAGAGGAGAGTGTCTTTCCAAATAGGACAGCAGATATCACTGTGACCA
 TCTCCAATTCCAATGAGAAGTCTTTGGCCAGAGAGACACGCAGCCTTCAATTCAGACATGCCTTCATTGC
 AGTTCTTTCCAGACCCTCAGTGATGTACATGAACACAAGCCAAAGCCCTTCTGACCACAAAGAATTCTTC
 TCAATGTGCATGGGGAGAATCTTTTTGGAGCTGTATTCCAGTTGCAAATTTGTGTCCCATCAAATTAC
 AAGATTTCCAGATTGTAAGAGTGAAGAATCTGACAAAGACTCAGGACCACACTGAGTGCACCCAGAGTCA
 AGAGCCTGCGTGTGGAAGCGATCCTGTGCAGCATGTAAAAGAATGGCATTCAAGTGGTCTGTGCTATCACA
 TCTAATAAAGAAAATGTAACCGTGGCCGAGAGATCTCCGTGGGCCACACTAAGCAGTTACTAAGAGATG
 TATCTGAACTGCCGATCCTTGGTGAATATCTTTCAACAAATCTCTATGAGGGGCTGAATGCAGAGAA
 CCACAGGACGAAGATCACTGTCTCTTCTGAAAGAGGAGGAGACACGCTCTTTGCCTCTCATATTGGC
 AGCAGCATCGGAGGCTCCTGGTCTTGGTTGTGATTATAGCCATTTTGTCAAGTGTGGCTTTTTCAAAA
 GAAAATATCAACAACTGAACTTGAGAGACAAAGAGGGCCAGCTGAAGGCTGACAGTCTGCTCCAAGA
 TTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_008399

Insert Size:

3504 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_008399.2](#), [NP_032425.2](#)

RefSeq Size: 3836 bp

RefSeq ORF: 3504 bp

Locus ID: 16407

UniProt ID: [Q60677](#)

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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).