

Product datasheet for **SC316319**

Integrin alpha E (ITGAE) (NM_002208) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Integrin alpha E (ITGAE) (NM_002208) Human Untagged Clone
Tag: Tag Free
Symbol: Integrin alpha E
Synonyms: CD103; HUMINAE
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002208 edited
AAGGATGGCTCTTCCACACTCTGCTCTGCATAGCCAGCCTGGCCCTGTGGCCGCTTT
CAATGTGGATGTGGCCCGCCCTGGCTCACGCCAAGGGAGGTGCCCTTTCGTGCTCAG
CTCCCTTCTGCACCAAGACCCCAGCACCAACCAGACCTGGCTCCTGGTCACCAGCCAG
AACCAAGAGGACACCAGGGCCCTCCATCGATGTTCCCTTGTCCAGGATGAAATCCTTTG
CCATCCTGTAGAGCATGTCCCATCCCCAAGGGGAGGCACCGGGGAGTGACCGTTGTCCG
GAGCCACCACGGTGTGTTTATGATGCAATCAAGTCTGGTCCGGCCGCTCACAGCCTCAG
CTCAGAACTCACAGGCACCTGTAGCCTCCTGGCCCTGACCTCCGTCCCCAGGCTCAGGC
CAACTTCTTCGACCTTAAAAATCTCCTGGATCCAGATGCACGTGTGGACTGGAGACTG
CTACAGCAACAAGAAGGCGGTGGAGAAGACGATGTGAACACAGCCAGGCAGCGCCGGGC
TCTGGAGAAGGAGGAGGAGAAGACAAGGAGGAGGAGAAGACGAGGAGGAGGAGAAGC
TGGCACCGAGATTGCCATCATCCTGGATGGCTCAGGAAGCATTGATCCCCAGACTTTCA
GAGAGCCAAAGACTTTCATCTCCAACATGATGAGGAACTTCTATGAAAAGTGTGTTGAGTG
CAACTTTCCTTGGTGCAGTATGGAGGAGTGATCCAGACTGAGTTTGACCTTCGGGACAG
CCAGGATGTGATGGCCTCCCTCGCCAGAGTCCAGAACATCACTCAAGTGGGGAGTGTCAC
CAAGACTGCCTCAGCCATGCAACACGTCTTAGACAGCATCTTCACCTCAAGCCACGGCTC
CAGGAGAAAGGCATCCAAGGTGATGGTGGTGTACCCGATGGTGGCATATTCGAGGACCC
CCTCAACTTACGACAGTCATCAACTCCCCAAAATGCAGGGTGTGAGCGCTTTGCCAT
TGGGGTGGGAGAAGAATTTAAGAGTGCTAGGACTGCGAGGGAACGAACCTGATCGCCTC
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GAGCAAATGCGGTACAACATCATCAGCATGGAAGGCACGGTTGGAGACGCCCTTCACTA
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CGCCGTCGGGGCCTTTGACTGGTCCGGAGGGCGTTGCTCTACGACACACGCAGCCGCCG
GGGCCGCTTCTGAACCAGACAGCGCGCGCGGCAGACCGGAGGCTGCGCAGTACAG
CTACCTGGGTTACGCTGTGGCCGTGCTGCACAAGACCTGCAGCCTCTCCTACGTCGCGGG
GGCTCCACAGTACAAACATCATGGGCGCTGTTTGGAGCTCCAGAAGGAGGGCAGAGAGGC
CAGCTTCTGCCAGTGTGGAGGAGAGCAGATGGGGTCTATTTGGCTCTGAGCTGTG



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CCCTGTGGACATTGACATGGATGGAAGCACGGACTTCTTCTGGTGGCTGCTCCATTTTA
CCACGTTTCATGGAGAAGAAGGCAGAGTCTACGTGTACCGTCTCAGCGAGCAGGATGGTTC
TTTCTCCTTGGCAGCATACTGAGTGGGCACCCCGGGTTCACCAATGCCCGCTTTGGCTT
TGCCATGGCGGCTATGGGGGATCTCAGTCAGGATAAGCTCACAGATGTGGCCATCGGGGC
CCCCCTGGAAGGTTTTGGGGCAGATGATGGTGCCAGCTTCGGCAGTGTGTATATCTACAA
TGGACACTGGGACGGCCTCTCCGCCAGCCCTCGCAGCGGATCAGAGCCTCCACGGTGGC
CCCAGGACTCCAGTACTTCGGCATGTCCATGGCTGGTGGCTTTGATATTAGTGGCGACGG
CCTTGCCGACATCACCGTGGGCACTCTGGGCCAGGCGTTGTGTTCCGCTCCCGGCTGT
GGTTCGCCTGAAGGTCTCCATGGCCTTACCCCAAGCGCACTGCCCATCGGCTTCAACGG
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TTAGGACCTGCTATCCACTGGGAGAGGCTATCAGCCAGTCTGGGACTTGGAGACCCAGC
ATCCTTTGCATTACTTTTTCTTCAGGATGATCTAGAGCAGCATGGAGCTGTTGGTAGAA
TATTAGTTTTTAACCATACATTGTCCCAAAAGTGTCTGTGCATTGTGCAAAAAGTAAACT
TAGGAAACATTTGGTATTAATAAATTTACACTTTTCTTTGCAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002208 unedited
 GACGCCAATTTTGTATACCGACTCCTATAGGGCGGCCGCTGTTATTCAGATCTGGTACC
 GAGCTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTCCAGGAATTCA
 AGGATGTGGCTCTTCCACACTCTGCTCTGCATAGCCAGCCTGGCCTGCTGGCCGCTTTC
 AATGTGGATGTGGCCCGCCCTGGCTCACGCCAAGGGAGGTGCCCTTTCGTGCTCAGC
 TCCCTTCTGCACCAAGACCCAGCACCACCAACCAGACCTGGCTCCTGGTACCAGCCCCAGA
 ACCAAGAGGACACCAGGCCCTCCATCGATGTTCCCTTGTCCAGGATGAAATCCTTTGC
 CATCCTGTAGAGCATGTCCCATCCCAAGGGGAGGCACCGGGGAGTGACCGTTGTCCGG
 AGCCACCACGGTGTTTTATATGCATTCAAGTGCTGGTCCGGCGCCCTCACAGCCTCAGC
 TCAGAACTCACAGGCACCTGTAGCCTCCTGGGCCCTGACCTCCGTCCCCAGGCTCAGGCC
 AACTTCTTCGACCTTAAAAATCCTGGATCCAGATGCACGTGTGGACTGGAGACTGC
 TACAGCAACAAAGAAGCGGTGGAGAAGACGATGTGAACACAGCCAGGCAGCGCCGGCT
 CTGGAGAAGGAGGAGGAGAAGACAATGAGGAGGAGGAAGACGAGGAGGAGGAGGAAGCT
 GGCACCGAGATTGCCATCATCCTGGATGGCTCAGGAAGCATTGATCCCCAGACTTTCAG
 AGAGCCAAAGACTTCATCTCCAACATGATGAGGACTTCTATGAAAGTGTGGAGTGCAA
 CTTTGCCTTGGTGCAGTATGAGAGTGATCAAAGTGGTGGTGGTGGTGGTGGTGGTGGT
 GTGATGGCCTCCCTCGCCGAGTCAGACATCACTCAGTGGGGAAGTGCACCAAGAAGTCC
 TAGCATGCAACACGTCTA

3' Read Nucleotide Sequence:

>Forward primer walk for NM_002208 unedited
 GTAACCTACGCTACGCTAAATGATAGTATGCAGTATTCCTCCCTCTCAAACATTCAGTG
 TGATGACCCTCAGCCGGTTGCTTCTGCTCCTGATCATGAACTGCAGGATTGGTCACCCCGT
 CCTCAAGAGGTCATCTGCTCATGTTTCAGTCGTTTGGCAGCTAGAGGAGAATGCCTTTCC
 AAACAGGACAGCAGACATCACTGTGACTGTCACCAATTCAAATGAAAGACGGTCTTTGGC
 CAACGAGACCCACACCCTCAATTCAGGCATGGCTTCGTGTCAGTTCTGTCCAAACCATC
 CATAATGTACGTGAACACAGGCCAGGGCTTTCTACCACAAAGAATTCCTTCCATGT
 ACATGGGAGAACCTCTTTGGAGCAGAATACCAGTTGCAATTTGCGTCCCAACCAAT
 ACGAGGTCCTCCAGGTTGTAGCAGTGAAGAAGCTGACGAGACTCAGGCCTCCACGGTGTG
 CACCTGGAGTCAGGAGCGCCTTGTGCGTACAGTTCGGTTCAGCATGTGGAAGAATGGCA
 TTCAGTGAGCTGTGCATCGCTCAGATAAAGAAAATGTCACCGTGGCTGCAGAGATCTC
 CTGGGATCACTCTGAGGAGTTACTAAAAGATGTAAGTGAAGTGCAGATCCTTGGTGAAT
 ATCTTTCAACAAATCTCTATATGAGGGACTGAATGCAGAGAACCACAGAATAAGATCAC
 TGTCGTCTTCTGAAAGATGAGAAGTACCATTCTTTGCCTATCATTAAGCAGCGTT
 GGTGGACTTCTGGTGTGATCGTGATTCTGGTTCATCCTGTTCAAGTGTGGCTTTTTTAA
 AGAAAATATCAACAACCTGAACCTGAGAGCATCAGAAGCCAGCTGAATCAGAGATCTGCT
 CGAGAGAGATTAGACCTGCTATCCACTGGGAGAAAGCTATTCAGCCAGTCTTGGGACTT
 GGACA

Restriction Sites:

Please inquire

ACCN:

NM_002208

Insert Size:

4000 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).

OTI Annotation:

The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.NA

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:	<ol style="list-style-type: none">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:	<u>NM_002208.4</u> , <u>NP_002199.3</u>
RefSeq Size:	3878 bp
RefSeq ORF:	3540 bp
Locus ID:	3682
UniProt ID:	<u>P38570</u>
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Regulation of actin cytoskeleton
Gene Summary:	Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This gene encodes an I-domain-containing alpha integrin that undergoes post-translational cleavage in the extracellular domain, yielding disulfide-linked heavy and light chains. In combination with the beta 7 integrin, this protein forms the E-cadherin binding integrin known as the human mucosal lymphocyte-1 antigen. This protein is preferentially expressed in human intestinal intraepithelial lymphocytes (IEL), and in addition to a role in adhesion, it may serve as an accessory molecule for IEL activation. [provided by RefSeq, Jul 2008]