

Product datasheet for MC223264

Itga4 (NM_010576) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itga4 (NM_010576) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Itga4
Synonyms:	CD49D; Itga4B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223264 representing NM_010576 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCGGAAGCGAGGTGCAGACCGAGGTCCCAGGGATCGCCCTCCGGGAAGCGGTGATGCTGTTGT
TGTA CTTCGGGGTGCCAACCGGGCACTCTACAACCTGGACCCGAGAATGCACTGCTGTACCAGGGCCC
CTCCGGCAGCTGTTGGCTACTCGGTGGTGTGCACAGCCACGGGTCGAAGCGTGGCTCATCGTGGG
GCTCCCACTGCCAGCTGGCTCTAATGCCTCAGTGGTCAATCCTGGGGCGATTTACAGATGCGGGATCA
GAAAGAATCCAAACCAGACCTGCCAACAGCTCCAGCTGGGTAGCCCCAGTGGAGAGCCTTGTGGGAGAC
ATGCCTGGAGGAGAGGGATAACCACTGGCTGGGGTCCACCTTTCCAGACAGCCTGGAGAAAATGGCTCT
ATCGTGACTTGTGGGCACAGGTGAAAAATATTTTTTACATGAAGAGCGATAACAAACTCCCCACTGGCA
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TACGAGAAAATTTGGAGAAAATTTGCATCATGTCAAGCTGGAATATCTAGTTTTTACACACAGGATTTA
ATTGTGATGGGGCCCCGGGATCATCGTACTGGACTGGCACCCTTTGTCTACAATATAACTACAAACC
AATACAAAGCATTGTAGACAGACAGAACCAAGTAAAATTTGGAAGCTACTTAGGCTACTCAGTTGGAGC
TGGACATTTTCGAAGTCCACATACTACCGAAGTCGTGGGAGGAGCCCTCAACACGAACAGATAGGAAAA
GCATATATATTTAGCATTGATGAAAACGAACTGAACATCGTATATGAAATGAAAGGTAAAAAGCTTGGCT
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TTTTGTTTACAATGTGAGCTTGGATGTGCACAGGAAGGCAGAGTCTCCGTCAAGATTTTATTTCTTCTC
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TAGACATTAGCTTTCTCCTGGATGTGAGCTCACTCAGCAGGCCACATGAGGACCTCAGCATCAGTGTGCA
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GAACGTGGCCCATGTTTTCTTGGAAAGGGCTCCATCATCAAAGACCCAAACGACATTTCCACCATATTATT
ATTACCATCAGCTTGCTACTTGGACTTATTGTACTTTTATTAATTTTCATGTGTTATGTGGAAGGCTGGAT
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CAAAAGCAATGATGACTGA

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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_010576

Insert Size:

3099 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_010576.3](#), [NP_034706.3](#)

RefSeq Size:

9833 bp

RefSeq ORF:

3099 bp

Locus ID: 16401

UniProt ID: [Q00651](#)

Cytogenetics: 2 47.38 cM

Gene Summary: Integrins alpha-4/beta-1 (VLA-4 or LPAM-2) and alpha-4/beta-7 (LPAM-1) are receptors for fibronectin. They recognize one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. They are also receptors for VCAM1. Integrin alpha-4/beta-1 recognizes the sequence Q-I-D-S in VCAM1. Integrin alpha-4/beta-7 is also a receptor for MADCAM1. It recognizes the sequence L-D-T in MADCAM1. On activated endothelial cells integrin VLA-4 triggers homotypic aggregation for most VLA-4-positive leukocyte cell lines. It may also participate in cytolytic T-cell interactions with target cells. ITGA4:ITGB1 binds to fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine signaling. ITGA4:ITGB1 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1.[UniProtKB/Swiss-Prot Function]