

Product datasheet for MC223315

Itgav (NM_008402) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itgav (NM_008402) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Itgav
Synonyms:	1110004F14Rik; 2610028E01Rik; CD51; D430040G12Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223315 representing NM_008402 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCTCCCGGGCGCCTGCTGCTACGCCCTCGCCCCGGCGGCCTCCTGCTGCTGCTGCCGGTCTCC
TGCTGCCCTCGCCGACGCTTCAACCTGGACGTCGAAAGTCCC GCCGAGTATGCGGGTCCCAGGGAAAG
TACTTCGGATTCGCCGTGGACTTCTTCGAGCCCAGCACGTCCTCCAGGATGTTTCTCCTGGTGGGAGCC
CCCAAAGCGAACACGACCCAGCCTGGGATTGTAGAAGGAGGGCAAGTTCTCAAATGTGAATGCTCATCCA
GCCGCCGTGCCAGCCATTGAGTTTGATTCAACAGGCAATCGAGATTATGCCAAAGATGACCCACTGGA
GTTTAAGTCCCACAGTGGTTTGAGCCTCTGTGAGGTCAAAGCAGGATAAAATCTTGGCCTGTGCTCCA
TTGTACCACTGGAGGACTGAGATGAAGCAGGAGAGAGAGCCAGTTGGAACCTGCTTCTCAGGACGGCA
CAAAGACCGTTGAGTATGCTCCATGCAGGTCAAAAAATTTGATGCTGATGGCCAGGGATTTTGTCAAGG
AGGATTCAGCATTGATTTACTAAAGCTGACAGAGTACTTCTCGGTGGTCTGGTAGCTTTTATTGGCAA
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ATAATAACCAATTAGCAACCGGACTGCACAAGCAATTTTGTGACAGTATTTGGGTTACTCTGTGGC
CGTGGGAGACTTCAATGGTGACGGCATTGAAGATTTTGTCTCAGGAGTTCCAAGAGCAGCAAGGACTTTG
GGAATGGTTTATATTTATGATGGGAAAAATATGCCTCTTACACAATTTTACTGGTGAACAGATGGCTG
CGTATTTTGGATTTTCTGTAGTCTACTGACATTAATGGGGATGATTACGCAGATGTGTTTATTGGAGC
CCCCCTGTTTATGGACCGAGGTTCCGATGGGAAATCCAGGAGGTTGGCCAGGTCTCAGTGTCTCTGCAG
AGAGCAGTGGGAGACTTCCAGACTACAAAGCTGAACGGCTTTGAGGTTTTTGGCAGGTTTGGAAAGTGCCA
TAGCTCCATTGGGAGACCTGGACCAGGATGGCTTCAATGATATTGCAATTGCTGCTCCCTATGGTGGTGA
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TAGACAGGAATGGATATCCAGACTTAGTTGTAGGAGCTTTTGGTGTGGATCGAGCTGTCTATACAGAGC
CAGACCCGTTGCTACTGTAATGCTGGCCTTGAAGTGTACCCTAGCATTTTAAATCAAGACAATAAGATC



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TGCCCGTTGCCTGGGACAGCTCTCAAGGTTTCCTGTTTTAATGTCAGATTCTGCTTAAAGGCAGATGGCA
AGGGAACCTTCCTCGGAAGCTCCACTTCCAGGTGGAGCTTCTACTGGATAAACTCAAGCAGAAGGGAGC
CATCCGACGAGCACTGTTTCTCCATAACAGGTCCCGTCCACTCCAAGACCATGACTGTTTTAGGGGG
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CCTGAACCAGTTCCTCCGGCCAACGTCAGTCGGCAGGCTCATATTCTACTTGACTGTGGTGAAGACAAT
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CTCTGACACTGACTGTGAAGGCGCAGAATCAAGGGGAAGGCGCCTATGAAGCTGAGCTCATCGTTTCTAT
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TCTCACCTCAGAGAGGGAGATGTTTCACTTTGGGCTGTGGAATCGCCAAGTGCTTGCAGATCACCTGC
CAGGTTGGTTCGACTGGATAGAGGCAAGAGCGCAATCCTGTACGTGAAATCCCTGCTGTGGACCGAGACGT
TCATGAACAAGGAGAACCAGAACCATTCTATTCGCTGAAGTCACTGCTTCTTAAATATCATAGAATT
CCCTTACAAGAACCTGCCGATCGAGGATCTTCAACTTACACTAGTCACTAACATCACCTGGGGC
ATTCAGCCGGCGCCATGCCTGTGCCTGTGTGGGTGATCATCTTGGCAGTTCTCGCAGGGCTGCTGCTAC
TGGCTGTGTTGGTATTTGTAATGTACAGGATGGGCTTTTTCAAACGTGTCCGACCACCTCAAGAAGAGCA
AGAAAGAGAACAGCTTTCAGCCTCATGAGAATGGCGAAGGAAACTCTGAAACCTAA
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ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Chromatograms: https://cdn.origene.com/chromatograms/ja1919_a08.zip

Restriction Sites: SgfI-MluI

ACCN: NM_008402

Insert Size: 3135 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_008402.2](#), [NP_032428.2](#)

RefSeq Size: 7055 bp

RefSeq ORF: 3135 bp

Locus ID: 16410

UniProt ID: [P43406](#)

Cytogenetics: 2 49.33 cM

Gene Summary: This gene encodes a protein that is a member of the integrin superfamily. Integrins are transmembrane receptors involved cell adhesion and signaling, and they are subdivided based on the heterodimer formation of alpha and beta chains. This protein has been shown to heterodimerize with beta 1, beta 3, beta 6 and beta 8. The heterodimer of alpha v and beta 3 forms the Vitronectin receptor. This protein interacts with several extracellular matrix proteins to mediate cell adhesion and may play a role in cell migration. In mouse, deficiency of this gene is associated with defects in vascular morphogenesis in the brain and early post-natal death. [provided by RefSeq, May 2013]