

## Product datasheet for MR226884

### Itgav (NM\_008402) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Itgav (NM_008402) Mouse Tagged ORF Clone                                    |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Itgav   |
| Synonyms:                 | 1110004F14Rik; 2610028E01Rik; CD51; D430040G12Rik                           |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >MR226884 representing NM_008402<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCTCCCGGGCGCCTGCTGCTACGCCCTCGCCCCGGCGGCCTCCTGCTGCTGCTGCCGGTCTCC  
TGCTGCCCTCGCCGACGCTTCAACCTGGACGTCGAAAGTCCCGCCGAGTATGCGGGTCCCGAGGGAAG  
TACTTCGGATTCGCCGTGGACTTCTCGAGCCAGCACGTCCTCCAGGATGTTTCTCCTGGTGGGAGCC  
CCCAAAGCGAACACGACCCAGCCTGGGATTGTAGAAGGAGGGCAAGTTCTCAAATGTGAATGCTCATCCA  
GCCGCCGGTGCCAGCCATTGAGTTTGATTCAACAGGCAATCGAGATTATGCCAAAGATGACCCACTGGA  
GTTTAAGTCCCACAGTGGTTTGAGCCTCTGTGAGGTCAAAGCAGGATAAAATCTTGGCCTGTGCTCCA  
TTGTACCACTGGAGGACTGAGATGAAGCAGGAGAGAGAGCCAGTTGGAACCTGCTTCTCAGGACGGCA  
CAAAGACCGTTGAGTATGCTCCATGCAGGTCAAAAAATTTGATGCTGATGGCCAGGGATTTTGTCAAGG  
AGGATTCAGCATTGATTTACTAAAGCTGACAGAGTACTTCTCGGTGGTCTGGTAGCTTTTATTGGCAA  
GGTCAGCTCATTTCGGACCAAGTGGCAGAAATCATATCTAAATATGACCCAAATGTCTACAGCATCAAAT  
ATAATAACCAATTAGCAACACGGACTGCACAAGCAATTTTGTGACAGTATTTGGGTTACTCTGTGGC  
CGTGGGAGACTTCAATGGTGACGGCATTGAAGATTTTGTCTCAGGAGTTCCAAGAGCAGCAAGGACTTTG  
GGAATGGTTTATATTTATGATGGGAAAAATATGTCCTCTTACACAATTTTACTGGTGAACAGATGGCTG  
CGTATTTTGGATTTTCTGTAGTCTACTGACATTAATGGGGATGATTACGCAGATGTGTTTATTGGAGC  
CCCCCTGTTTCATGGACCGAGGTTCCGATGGGAACTCCAGGAGGTTGGCCAGGTCTCAGTGTCTCTGCAG  
AGAGCAGTGGGAGACTTCCAGACTACAAAGCTGAACGGCTTTGAGGTTTTTGGCAGGTTTGGAAAGTGCCA  
TAGCTCCATTGGGAGACCTGGACCAGGATGGCTTCAATGATATTGCAATTGCTGCTCCCTATGGTGGTGA  
AGATAAGAAGGGACTTGTATATCTTCAATGGAAGGTCCACAGGCTTGAATTCGGTGCCATCTCAAATC  
CTCGAGGGGCAGTGGGCTGCTCAGAGCATGCCCAAGCTTTGGCTATTCAATGAAGGGAGCTACAGATG  
TAGACAGGAATGGATATCCAGACTTAGTTGTAGGAGCTTTTGGTGTGGATCGAGCTGTCTATACAGAGC  
CAGACCCGTTGCTACTGTAATGCTGGCCTTGAAGTGTACCCTAGCATTTTAAATCAAGACAATAAGATC



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TGCCCGTTGCCTGGGACAGCTCTCAAGGTTTCCTGTTTTAATGTCAGATTCTGCTTAAAGGCAGATGGCA  
 AGGGAACCTTCCCTCGGAAGCTCCACTTCCAGGTGGAGCTTCTACTGGATAAACTCAAGCAGAAGGGAGC  
 CATCCGACGAGCACTGTTTTCTCCATAACAGGTCCCGGTCCACTCCAAGACCATGACTGTTTTCAGGGGG  
 GGACAGATGCAGTGTGAGGAAGTGGTCGCTATCTTCGGGATGAATCTGAATTTAGAGACAAGCTCACTC  
 CCATCACCATTTTCATGGAGTATCGGTTGGACCAGAGAACGGCTGCTGATGCCACAGGCTTGACGCCCAT  
 CCTGAACCAGTTCCTCCGGCCAACGTCAGTCGGCAGGCTCATATTCTACTTGACTGTGGTGAAGACAAT  
 GTCTGTAACCTAAATTGGAAGTTTCTGTAATAGTGATCAAAAGAAGATCTATATTGGGGACGACAAC  
 CTCTGACACTGACTGTGAAGGCGAGAATCAAGGGGAAGGCGCCTATGAAGCTGAGCTCATCGTTTCTAT  
 CCCACCGCAGGCTGACTTCATCGGGTTGTCCGGAACAACGAAGCCTTAGCAAGACTGTCCTGTGCATTT  
 AAGACAGAAAACCAAACCTCGGCAGGTGGTGTGCGACCTTGAAACCCGATGAAGGCTGGAACCTCAACTGC  
 TCGCTGGTCTTCGTTTCAGCGTGCACCAGCAGTCAAGATGGATACTTCTGTGAAGTTTGACTTGAAAAT  
 CCAGAGCTCTAATTCTTTGACAATGTAAGTCCAGTTGTGTCTTACAAGTTGACCTCGCCGTTTGGCT  
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 AAAACCTGAGACTGAAGAAGACGTTGGCCTATTGTTACGACATATATGAGCTGAGAAAACATGGTCC  
 AAGTTCATTACGCAAGGCAATTCTAAATCTCCAGTGGCCTTACAATACAACAACAACACTCTGTTGTAC  
 ATTCTTACATTACGACATTGACGGCCAATGAAGCTGCACGGCAGATACAGAGATCAACCCTTTGAGAAATCA  
 AGACACCCGAAAAGAATGACACAGCGGGCGGGACAGGGAGAAAAGGAATCATCTCATCACCAAGCGGGA  
 TCTCACCTCAGAGAGGGAGATGTTTCACTTTGGGCTGTGGAATCGCCAAGTGTGTCAGATCACCTGC  
 CAGGTTGGTTCGACTGGATAGAGGCAAGAGCGCAATCCTGTACGTGAAATCCCTGCTGTGGACCGAGACGT  
 TCATGAACAAGGAGAACCAGAACCATTCTATTCGCTGAAGTCACTGCTTCTTAAATATCATAGAATT  
 CCCTTACAAGAACCTGCCGATCGAGGATCTCTTCAACTTACACTAGTCACTAACATCACCTGGGGC  
 ATTCAGCCGGCGCCATGCCTGTGCCTGTGTGGGTGATCATCTTGGCAGTTCGCGAGGGCTGCTGCTAC  
 TGGCTGTGTTGGTATTTGTAATGTACAGGATGGGCTTTTTCAAACGTGTCCGACCACCTCAAGAAGAGCA  
 AGAAAGAGAACAGCTTCAGCCTCATGAGAATGGCGAAGGAAACTCTGAAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226884 representing NM\_008402

Red=Cloning site Green=Tags(s)

MAAPGRLLLRPRPGLLLLPLGLLLPLADAFNLVESPAYAGPEGSYFGFAVDFPEPSTSSRMFLLVGA  
 PKANTTQPGIVEGGQVLKCESSRRCPQIEFDSTGNRDYAKDDPLEFKSHQWFGASVRSKQDKILACAP  
 LYHWRTEMKQEREPVGTGFLQDGTVEYAPCRSKNIDADGQFGCQGGFSIDFTKADRVLGGPGSFYWQ  
 GQLISDQVAEIIISKYDPNVYSIKYNNQLATRTAQAIFFDSSYLGYSVAVGDFNGDIEDFVSGVPRAARTL  
 GMVYIYDGKNMSSLHNFTEQMAAYFGFSVAATDINGDDYADVFIGAPLFMDRGSQGLQEVGVQVSVSLQ  
 RAVGDFQTTKLNFEVFAFGSAIAPLGDLDQDGFNDIAIAAPYGGEDKKGLVYIFNGRSTGLNSVPSQI  
 LEGQWAAQSMPPSFGYSMKGATDVDRNGYPDLVVGAFVGDRAVLVYRARPVVTNAGLEVYPSILNQDNKI  
 CPLPGTALKVSCFNVRFLKADGKGTLPKLFHFQVELLLDKLKQKGAIRRALFLHNRSPVHKTMTVFRG  
 GQMQCEELVAYLRDESEFRDKLTPITIFMEYRLDQRTAADATGLQPIILNQFTPANVSRQAHILLDCGEDN  
 VCKPKLEVSVDQKKIYIGDDNPLTLVYKAQNQEGEYAEELIVSIPPQADFIVVRRNEALARLSCAF  
 KTENQTRQVVCDLGNPMKAGTQLLAGLRFVSHQQSEMDTSVKFDLKIQSSNSFDNVSPVSYKVDLAVLA  
 AVEIRGVSSPDHIFLPIPNWEYKENPETEEDVGPVQHIYELRNNGPSSFSKAILNLQWPYKYNNTLLY  
 ILHYDIDGPMNCTADTEINPLRIKTPEKNDTAAAGQGERNHILITKRDLLREGDVHTLGGCIKCLQITC  
 QVGRDRGKSAILYVKSLLWTEFTFMNKENQNHYSYLSKSSASFNIEFPYKNLPIEDLFNSTLVTTNITWG  
 IQPAMPVPVWVILAVLAGLLLLAVLVFVYRMGFFKRVPRPPQEEQEREQLQPHENGEENSET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9012\\_a04.zip](https://cdn.origene.com/chromatograms/mm9012_a04.zip)

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_008402

ORF Size: 3132 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](mailto: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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_008402.3](#), [NP\\_032428.2](#)

**RefSeq Size:** 7054 bp

**RefSeq ORF:** 3135 bp

**Locus ID:** 16410

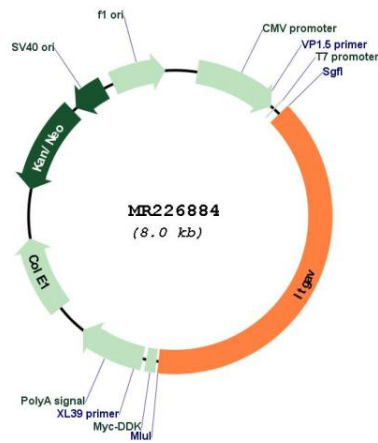
**UniProt ID:** [P43406](#)

**Cytogenetics:** 2 49.33 cM

**MW:** 115.8 kDa

**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]

**Product images:**



Circular map for MR226884