

Product datasheet for **RN205331**

Itga5 (NM_001108118) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Itga5 (NM_001108118) Rat Untagged Clone
Tag: Tag Free
Symbol: Itga5
Synonyms: Itga5_retired
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN205331 representing NM_001108118
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCCCCCGCCAGCCGACCCGGCGGCCGGGGGAGGGCCAGCCGGGAGTTGGGCAAACCTCTCCCCG
CGTTGAGTCATTCGCCTCTGGGAGGTTTAGGAAGCGGCTCCGGTGGTGGCCCCAGGACAGGGAAGAAC
GGGCGCTATGGGAGCTGGACGCCACGGTCCGCACGATCTCCTCTCCATGCGGTGCTGCTCGCTGGGG
CCCCGACGCCCTACCGCCGCTGCTGCCGCTGCTGCTACTGTGGCCGCCACCACTCCAGTTGGGGGT
TCAACCTAGACGCGGAGGCCCGCGGTGCTCTCCGGGCCCGCGCTCCCTCTTTGGCTTCTCCGTGGA
GTTTTACCGCCGGGAAGGGACGGAGTCAGTGTGCTGGTTGGGGCACCAAGGCTAACACTAGCCAACCA
GGAGTACTACAAGGTGGCGCTGTCTATGTGTGTCCTGGGGCACCAAGTCCATCCAGTGCAGCACCATTC
AATTTGACAGCAAAGGCTCCCGCATCCTGGAGTCTTCATTGTATAGTGAGGAACCTGTGGAGTACAAGTC
CTTGCAAGTGGTTCGGGGCAACGGTTCGGGCCACGGCTCCTCCATCTTGGCATGCGCTCCACTGTATAGC
TGGCGCACAGAAAAGGACCCACAGAATGACCCAGTGGCACCTGCTACCTCTCCACAGAAAACCTCACCC
GGATTCTGGAGTATGCACCTTGCCGCTCAGATTTTGGCAGTGCAGCAGGGCAGGGTACTGCCAAAAGGGG
CTTCAGTGCCGAGTTACCAAGACTGGCCGCTGGTCTAGGAGGACCTGGGAGCTACTTCTGGCAAGGC
CAGATCTGTGCGCCACTCAAGAGCAGATCTCGGAGTCTATTACCCACAGTACCTCATCAACCCTGTTT
AGGGGACGCTGCAGACCCGCCAGGCCAGCTCCGTCTATGATGACAGCTACTTGGGATACTCTGTGGCTGT
AGGTGAATTCAGTGGTATGACACAGAAGACTTTGTTGCTGGCGTGCCCAAAGGAAACCTCACCTATGGC
TATGCTACTGTCTTAATGGCTCAGACATCCACTCCCTTACAACGTCTCAGGAGAACAGATGGCCTCCT
ATTTTGGCTATGCCGTAGCTGCCACTGATACCAATGGAGATGGGCTAGATGACCTGCTGGTAGGGGACCC
CCTACTCATGGAGCGGACAGCTGACGGGAGACCTCAGGAGTGGGAGGGTCTACATCTATCTGCAGCAC
CCAGAGGGTATAGAGCCTACGCCCTCCCTACCCTCACTGGCCAAGATGAGTTCCGGCCGATTCCGGCAGCT
CCTTGACACCCCTGGGGGACCTGGACCAAGACGGCTACAATGATGTGCGCCATTGGGGCTCCGTTTGGTGG
GGAGGCCAGCAAGGAGTTGATTTATATTTCCCGGAGGGCCAGGAGGACTGAACACTAAGCCTTCCAG
GTTTTGCAGCCTCTGTGGGCAGCTGGCCATACCCAGACTTCTTTGGCTCTGCCCTCCGAGGAGGACGAG



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ATCTGGACGGCAATGGATACCCTGATCTAATCGTTGGATCCTTTGGTGTGGACAAGGCTCTGGTATACAG
GGGTCGGCCCATCATATCTGCCAGTGCCTCTCCACCATCTTCCCCTCCATGTTCAACCCAGAGGAGCGC
AGCTGCAGCCTGGAAGGAAACCCGTATCTCTGCATCAACCTTAGCTTCTGCCTCAACGCCTCTGGAAAC
ATGTACCAACTCTATAGGCTTCGAGGTGGAACCTCAACTGGACTGGCAGAAGCAGAAGGGAGGGGTCGG
GAGGGCACTGTTCTGGCTTCCAAGCAGGCCACCCTTACCAGACCCTGCTTATCCAGAATGGGGCTCGG
GAGGACTGCAGGGAGATGAAGATCTACCTCAGGAATGAATCAGAATTCAGAGACAACTCTCCCAATTC
ACATTGCCCTCACTTCTCCTTGGACCCAAAGCCCCATGGACAGCCATGGCCTCCGGCAGTCTTACA
CTACCAGAGCAAGAGCCGGATAGAGGACAAGGCCAGATCTTGCTAGACTGTGGTGAAGACAACATCTGT
GTGCCTGACCTGCAGCTGGCTGTGTATGGGGAGAAGAAACATGTGTACCTGGGTGACAAGAACGCCCTGA
ACCTGACATTCTCGCCAGAATCTGGGCGAGGGTGGGGCCTATGAAGCCGAGCTGCGGGTACAGCCCC
CCTGGAGGCTGAGTACTCGGGCTTGTGACACCCAGGGAATTCTCCAGCCTGAGCTGTGACTACTTC
GCGGTGAACCAGAGCCGACGCTGGTGTGTGACCTGGCAACCCCATGAAGGCAGGCACCAGTATCTGGG
GTGGCCTTCGGTTCAGTGTCTCATCTCAAGACACAAAGAAAACCATCAATTTGACTCCAGATCCT
CAGCAAGAACCTGAACAACCTCACAAGCAACATGGTCTCCTTCCCCTCGGTGGAGGCTCAAGCCAA
GTCTCCCTAACGGTGTCTCCAAGCCTGAAGCCGTGATTTCCCAGTCAGCGACTGGAATCTCAAGACC
AGCCTCAGAAGGAGGAGATTTGGGCCCTGCTGTCCACCATGTCTATGAGCTCATTAAACCAGGGGCCAG
CTCCATCAGCCAGGGTGTGCTGGAGATCAGCTGTCCCCAGGCTCTGGAAGGCCAACAGCTCCTCTATGTG
ACCAAGGTGACGGGACTCAACAACCTGCACCTCCAACCTACACCCCAACTCACAGGGCCTGGAGTTGGATC
CAGAGGTTTCTCCACATCACCTGCAGAGGCGAGAGGCTCCAGGGAGGAGTTCTACCACCTCAGGAACACA
AGTCTGAAATGCCCTGAAGCCAAGTGTTCAGGCTGCGCTGTGAGTTTGGGCCACTGCATCGCCAAAG
AGCCGGAGTCTGCAGCTGCATTTCCGAGTCTGGGCAAGACCTTCTTGCAGCAGGAATACCAGCCGTTCA
GCCTTCAGTGTGAGGCTCTATATGAAGCCCTGAAGATGCCCTACCAATCCTGCCTCGGCAGTGCCTCA
AAAGAACTCCAGGTGGCCACAGCCGTGCAGTGGACCAAGGCAGAAGGCAGCAATGGCGTCCCAGTGTGG
ATCATATCCTCGCCATCCTTTTTGGCCCTCCTGCTCCTAGTCTGCTCATGTCTATGTCTCTACAAGCTCG
GCTTCTCAAACGCTCCCTCCCCTACGGCACAGCCATGGAAAAAGCTCAGCTCAAGCCTCCAGCCACCTC
AGATGCC TGA
    
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
    
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Restriction Sites:

Sgfl-MluI

ACCN:

NM_001108118

Insert Size:

3300 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_001108118.1](#), [NP_001101588.1](#)

RefSeq Size: 4395 bp

RefSeq ORF: 3300 bp

Locus ID: 315346

Cytogenetics: 7q36

Gene Summary: alpha subunit that interacts with beta 1 subunit to form a fibronectin receptor [RGD, Feb 2006]