

Product datasheet for **RR205331**

Itga5 (NM_001108118) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Itga5 (NM_001108118) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Itga5
Synonyms: Itga5_retired
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR205331 representing NM_001108118
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCCCGCCAGCCGACCCGGCGGCCGGGGGAGGGCCAGCCGGGAGTTGGGCAAACCTCTCCCCG
 CGTTGAGTCATTCGCCTCTGGGAGGTTTAGGAAGCGGCTCCGGTTCGGTGGCCCCAGGACAGGGAAGAAC
 GGGCGCTATGGGAGCTGGACGCCACGGTCCGCACGATCTCTCCATGCGGTGCTGCTGCGCTGGGG
 CCCCAGCGCTACCGCCGCTGCTGCCGCTGCTGCTACTGTGGCCGCCACCACTCCAGTTGGGGGCT
 TCAACCTAGACGGGAGGCCCGCGGTCTCCGGGCCCGGCTCCCTCTTTGGCTTCTCCGTGGA
 GTTTTACCGGCCGGAAGGGACGGAGTCAGTGTCTGGTTGGGGACCCAAGGCTAACACTAGCCAACCA
 GGAGTACTACAAGGTGGCGCTGTCTATGTGTGCCCTGGGGACCAAGTCCATCCAGTGCAGCACCATTC
 AATTTGACAGCAAAGGCTCCCGCATCTGGAGTCTTATTGTATAGTGAGGAACCTGTGGAGTACAAGTC
 CTTGCAGTGGTTCGGGGCAACGGTTCGGGCCACGGCTCCTCCATCTTGGCATGCGCTCCACTGTATAGC
 TGGCGCACAGAAAAGGACCCACAGAATGACCCAGTGGGCACCTGTACCTCTCCACAGAAAACCTCACCC
 GGATCTGGAGTATGCACCTGCCGCTCAGATTTGGCAGTGCAGCAGGGCAGGGTACTGCCAAGGGG
 CTTCACTGCCGAGTTCACCAAGACTGGCCGCGTGGTCTTAGGAGGACCTGGGAGCTACTTCTGGCAAGGC
 CAGATCCTGTCCGCCACTCAAGAGCAGATCTCGGAGTCTATTACCCACAGTACCTCATCAACCCGTGTC
 AGGGGCAGCTGCAGACCCGCGCAGGCTCCGCTCTATGATGACAGCTACTTGGGATACTCTGTGGCTGT
 AGGTGAATTCAGTGGTGTGACACAGAAGACTTTGTTGCTGGCGTGCCCAAAGGAAAACCTCACCTATGGC
 TATGCTACTGTCTTAATGGCTCAGACATCCACTCCCTCTACAACGTCTCAGGAGAACAGATGGCCTCCT
 ATTTTGGCTATGCCGTAGCTGCCACTGATACCAATGGAGATGGGCTAGATGACCTGCTGGTAGGGGCACC
 CCTACTCATGGAGCGGACAGCTGACGGGAGACCTCAGGAGGTGGGAGGGTCTACATCTATCTGCAGCAC
 CCAGAGGGTATAGAGCCTACGCCCTCCCTACCCTCACTGGCCAAGATGAGTTCGGCCGATTCCGGCAGCT
 CCTTGACACCCCTGGGGACCTGGACCAAGACGGCTACAATGATGTGCCATTGGGGCTCCGTTTGGTGG
 GGAGGCCAGCAAGGAGTTGATTTATATTCGGGGAGGCCAGGAGGACTGAACACTAAGCCTTCCAG



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GTTTTGCAGCCTCTGTGGGCAGCTGGCCATACCCAGACTTCTTTGGCTCTGCCCTCCGAGGAGGACGAG
 ATCTGGACGGCAATGGATACCCTGATCTAATCGTTGGATCCTTTGGTGTGGACAAGGCTCTGGTATACAG
 GGGTCGGCCCATCATATCTGCCAGTGCCTCTCACCATCTTCCCTCCATGTTCAACCCAGAGGAGCGC
 AGCTGCAGCCTGGAAGGAAACCTGTATCTGCATCAACCTTAGCTTCTGCCTCAACGCCTCTGGAAAC
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 ACATTGCCCTCAACTTCTCCTTGGACCCCAAGCCCCATGGACAGCCATGGCCTCCGGCCAGTCTACA
 CTACCAGAGCAAGAGCCGGATAGAGGACAAGGCCAGATCTTGCTAGACTGTGGTGAAGACAACATCTGT
 GTGCCTGACCTGCAGCTGGCTGTGTATGGGAGAAGAAACATGTGTACCTGGGTGACAAGAAGCCCTGA
 ACCTGACATTCTCGCCAGAATCTGGCGAGGGTGGGGCCTATGAAGCCGAGCTGCGGGTACAGCCCC
 CCTGGAGGCTGAGTACTCGGGCTTGTGAGACACCCAGGAACTTCTCCAGCCTGAGCTGTGACTACTTC
 GCGGTGAACCAGAGCCGACGCTGGTGTGTGACCTGGCAACCCATGAAGGCAGGCACCAGTATCTGGG
 GTGGCCTTCGGTTCAGTGTCTCATCTTCAAGACACAAAGAAAACCATCAATTTGACTTCCAGATCCT
 CAGCAAGAACCTGAACAACCTCACAAGCAACATGGTCTCCTTCCACTCTCGGTGGAGGCTCAAGCCAA
 GTCTCCCTTAACGGTGTCTCCAAGCCTGAAGCCGTGATTTCCAGTCAAGCAGTGGAAATCCTCAAGACC
 AGCCTCAGAAGGAGGAGATTTGGGCCCTGCTGTCCACCATGTCTATGAGCTCATTAACAGGGGCCAG
 CTCCATCAGCCAGGGTGTGCTGGAGATCAGCTGTCCCCAGGCTCTGGAAGGCCAACAGCTCCTATGTG
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 AGTCTGAAATGCCCTGAAGCCAAGTGTTCAGGCTGCGCTGTGAGTTTGGGCCACTGCATCGCCAAAG
 AGCCGGAGTCTGCAGCTGCATTTCCGAGTCTGGCCAAGACCTTCTTGCAGCAGGAATACCAGCCGTTCA
 GCCTTCAGTGTGAGGCTATATGAAGCCCTGAAGATGCCCTACCAATCCTGCCTCGGCAGTCCCCCA
 AAAGAAACTCCAGGTGGCCACAGCCGTGAGTGGACCAAGGCAGAAGGCAGCAATGGCGTCCCACTGTGG
 ATCATCATCTCGCCATCCTTTTTGGCCTCCTGCTCTAGGTCTGCTCATCTATGTCTCTACAAGCTCG
 GCTTCTCAAACGCTCCCTCCCCTACGGCACAGCCATGGAAAAAGCTCAGCTCAAGCCTCCAGCCACCTC
 AGATGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205331 representing NM_001108118
 Red=Cloning site Green=Tags(s)

MPPRQPTRRPPGGPSRELGKLLPALSHSPLGGLGSGSGSVAPGQGRTGAMGSWTPRSPRSPLHAVLLRWG
 PRRLPPLLPLLLLLWPPPLQVGGFNLDAAEAPAVLSGPPGSLFGFSVEFYRPRDGVSVLVGAPKANTSQP
 GVLQGGAVYVCPWGTSPICQSTIQFDSKGSRILESSLYSEEPVEYKSLQWFGATVRAHGSSILACAPLYS
 WRTEKDPQNDPVGTCYLSTENFRILEYAPCRSDFGSAAGQGYCQGGFSAEFTKTRVVLGGPGSYFWQG
 QILSATQEQISESYYPQYLINPVQQLQTRQASSVYDSDLGYSVAVGEFSGDDTEDFVAGVPKGNLTYG
 YVTVLNGSDIHSLYNVSGEQMASYFGYAATAATDNGDGLDLDL VGAPLLMERTADGRPQEVGRVYIYLQH
 PEGIEPTSLTLTGQDEFGRFGSSLTPLGDLQDGYNDVAIGAPFGGEAQGVVFIFFGGPGLNTPKPSQ
 VLQPLWAAGHTPDFFGSALRGGRLDNGNYPDLIVGSFGVDKALVYRGRPIISASASLTIFPSMFNPEER
 SCSLEGPNVSCINLSFCLNASGKHVPNSIGFEVELQLDWQKQKGGVRRALFLASKQATLTQTLLIQNGAR
 EDCREMKIYLRNESEFRDKLSPIHIALNFSLDPKAPMDSHGLRPVLHYQSKSRIEDKAQILLDCGEDNIC
 VPDQLAVYGEKKHVYLGDKNALNLTFLAQNLEGGAYEAEALRVTAPEAEYSGLVRHPGNFSSLSCDYF
 AVNQSRQLVCDLGNPMKAGTSIWGGLRFTVPHLQDTKTIQDFQILSKNLNNSQSNMVSFPLSVEAQAQ
 VSLNGVSKPEAVIFPVSDWNPQDPQKEGDLGPAVHHVYELINQGPSSI SQGVLEISCPQALEGQQLLYV
 TKVTGLNNCTSNYTPNSQGLELDPEVSPHHLQRREAPGRSSTTSGTVLKCPEAKCFRLRCEFGPLHRQE
 SRSLQLHFRVWAKTFLQQEYQPFSLQCEALYEALKMPYQILPRQLPQKKLQVATAVQWTKAEGSNGVPLW
 I I I L A I L F G L L L L G L L I Y V L Y K L G F F K R S L P Y G T A M E K A Q L K P P A T S D A

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001108118

ORF Size: 3297 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](#)

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

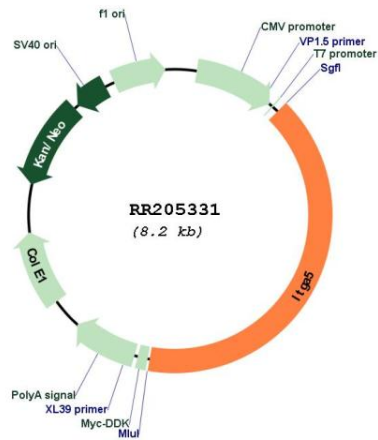
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_001108118.1, NP_001101588.1</u>
RefSeq Size:	4395 bp
RefSeq ORF:	3300 bp
Locus ID:	315346
Cytogenetics:	7q36
MW:	119.5 kDa
Gene Summary:	alpha subunit that interacts with beta 1 subunit to form a fibronectin receptor [RGD, Feb 2006]

Product images:



Circular map for RR205331