

Product datasheet for **RN207746**

Itga7 (NM_030842) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Itga7 (NM_030842) Rat Untagged Clone
Tag: Tag Free
Symbol: Itga7
Synonyms: MGC105724
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN207746 representing NM_030842
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCAGGATCCGAGGTGCGATTTCTCGGGCTCCCCGGAATTTGCTACCTTCTTAGTTTCTTGCTTG
CCGGACTGCTCTTACCACGGGCTAGCGCCTTCAATCTGGATGTGATGGTGCCATACGCAAGGAGGGAGA
ACCTGGCAGCTTATTCGGCTTTTCGGTGGCCCTACACCGACAATTACAGCCCCGACCCAGAGCTGGCTG
CTGGTGGGTGCCCCAGGCCCTGGCTTTCCTCCGACAGCAGGCAAAATCGCACGGGAGGCCCTTTTGCTT
GTCCCCCTGAGCCTAGAGGAGACAGACTGCTACAGAGTGGACATCGACAGGGGAGCTAATGTGCAGAAGGA
AAGCAAGGAGAACCAGTGGCTGGGAGTCAGCGTGCAGGAGCCAGGGAGCCGGGGCAAGGTTGTTACCTGT
GCACACCGATATGAGTCTCGACAGAGAGTGGACCAGGTTTTGGAGACTCGGGATGTGATTGGTCGTTGCT
TTGTGCTGAGCCAGGACCTGGCCATCCGTGATGAGTTGGATGGTGGGGAGTGAAGTTCTGTGAAGGGCG
CCCCAGGGCCACGAACAATTTGGGTTCTGCCAGCAGGGCACAGCTGCCACCTTCTCCCCGACAGCCAC
TACCTCATTTTGGGGCTCCAGGAACCTATAACTGGAAGGGTTGCTTTTTGTGACCAACATTGATAGCT
CAGACCCCGACCAGCTGGTGTATAAACTTTGGACCCCGCTGACCGGCTCACAGGACCAGCCGGAGACTT
GACCTTGAATAGCTATTTAGTTTTCTCATTGATTCTGGGAAGGGTCTCATGCGCTCAGAAGAGCTGAGT
TTTGTGGCAGGGGCCACGTGCCAACCACAAAGGGGCTGTGGTCACTTCTGCGCAAGGATAGTGCCAGCC
GCCTGATTCTGAGGTTGTGCTGTCTGGGAGCGCCTGACCTCTGGCTTTGGCTACTCCCTGGCTGTGAC
TGACCTCAACAGTGATGGCTGGGACAGCTGATTGTGGGTGCTCCCTACTTCTTTGAACGCCAAGAAGAA
CTTGGAGGTGCCGTGTATGTGTACATGAACCAGGGTGGCCATTGGGCAGATATCTCTCCTCTCCGACTCT
GTGGCTCCCTGACTCCATGTTTGGGATCAGTTTGGCTGTACTGGGGACCTCAATCAAGATGGCTTTCC
AGACATTGCTGTAGGAGCTCCCTTTGACGGAGATGGGAAAGTCTTATCTACCATGGGAGCAGCCTGGGG
GTGGTCACCAAACCTTACAGGTGCTGGAGGGTGAAGGCTGTGGGTATCAAGAGCTTTGGTTACTCCCTGT
CTGGTGGCCTGGATGTGGACGAAATCACTACCGGACCTGCTTGTGGGCTCCCTGGCTGATACTGCTGC
TCTGTTACAGGGCCAGACCTGTTCTACATGTCTCCAAGAAATCTTCAATTGATCCAAGAGCCATCGATCTG
GAACAGCCCAACTGTGCCAGGACGCTTGGTCTGCGTGACGTAAGGCTGTGTTTCAGTTATGTTGCTG



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TGCCAGCAGCTACAGCCCTATTGTGGTCTAGATTATGTGTTAGATGGGACACAGACCCGAGGCTCCG
 GGGCCAGGCTCCACGTGTGACTTTCCCGGGCCGAGGCCCGGATGATCTCAAGCATCAGTCCCTCGGGCACC
 GTGTGCTTGAAGCACCAACATGACAGAGTCTGTGGAGACTGTGTTCCAGCTGCAGGAAAACGTCAAAG
 ACAAGCTACGGGCCATTGTGGTGACCCTGTCATATGGTCTCCAAACCCCTCGATTAAGGAGGCAAGCGCC
 TGACCAGGGGCTCCCCCTGTGGCTCCCATCCTCAACGCTCACCAGCCCAGTACACAGAGGACTGAGATC
 CACTTCTGAAGCAAGGCTGTGGTGACGATAAGATCTGTCAGAGCAACCTCCAGCTTGCCGAGGCCCTGTTGC
 GCTGAGCGGGCAGCCATTCATAGGCCTGGAGCTGACAGTACCAACCTGCCCTCTGACCCAGCCCGGCT
 CAGGCAGATGGGATGATGCTCATGAAGCCCAGCTCCTGGCCACCCTCCCAGCCTCTCTTCGATACTCGG
 GAGTCCGCACTCTGGACTCTGTGGAGAAGCCGCTCTGCCTGTCCAACGAGAATGCCTCTCATGTGAGTG
 TGAGCTCGGGAACCCTATGAAGAGAGGCACTCAGGTACCTTCTACCTCATCCTCAGCACCTCTGGAATC
 ACCATTGAGACCACAGAGCTGAAGGTGGAATTGCTCTTAGCCACGATCAGTGAGCAGGACCTGCATCCGG
 TCTCCGTTCCGGGCTCATGTCTTATTGAATTGCCGCTGCCATTCAGGGGTGGCCACTCCTCAGCAACT
 CTTCTTCTCTGGCAAGGTGAAGGGGAGAGCGCCATGCGGTCTGAGAGGGACGTGGGACGAAGGTCAAG
 TACGAGGTCACGGTCTCCAATCAAGGCCAGTCACTCAATACTCTGGGCTCTGCCTTCTCAACATCATGT
 GGCCCCATGAGATCGCCAATGGGAAATGGCTGTTGTACCCCATGCGGGTGGAGCTGGAGGGTGGACAGGG
 GCCTGAGAAGAAAGGGATCTGCTCCCAAGACCAACATCCTCCACCTGGATGTGGACAGCAGGGATAGG
 AGGCGGGCAGAGCTGGGGCAGCCGAGCCTCAGGAGCCTCCAGAGAAGGTGGAACCTAGCACATCTTGGT
 GGCCAGTGTCTCCGCTGAGAAGAGAAACGTGACTCTGGACTGTGCCAGGGCAGGCAAGTGTGTGGT
 ATTCAGCTGCCACTCTACAGCTTTGACCGTGCAGCCGTGCTTTCATGTCTGGGGCCGCTCTGGAACAGC
 ACCTTTCTGGAGGAGTACATGTCCTGAAGTCCCTGGAGGTGATCGTCCGAGCCAACATCACAGTAAAT
 CCTCCATTAAGAACTTGTGCTCAGAGATGCATCCACAGTATCCAGTATGGTATACTTGGACCCGCT
 GGCTGTGGTTGCAGAAGGAGTCCCCTGGTGGTATCCTCCTGGGGTGTGGCTGGGCTGCTAGTACTG
 GCCCTGCTGGTGTGCTGCTGTGGAAGCTGGGATTCTTCAAGCGGGCAAGCACCCCTGAGGCCACTGTAC
 CCCAGTACCACGAGTGAAGATCCTTCGGGAAGACCGGCAGCAGTTCAAGGAGGAGAAGACAGGCACCAT
 TCAGAGGAGTAAGTGGGCAATCCAGTGGGAGGGCTCCGACGCACACCCTATCCTGGCTGCCACTGG
 CACCCTGAGTTGGGCTCTGATGGACATCTGTGTCAGTCACTGCC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_030842

Insert Size:

3408 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_030842.1](#), [NP_110469.1](#)

RefSeq Size: 3922 bp

RefSeq ORF: 3408 bp

Locus ID: 81008

UniProt ID: [Q63258](#)

Cytogenetics: 7q11

Gene Summary: alpha subunit of integrin alpha-7/beta-1; functions as a laminin receptor [RGD, Feb 2006]