

Product datasheet for **MR211548**

Itga3 (NM_013565) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itga3 (NM_013565) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itga3
Synonyms:	AA407068; CD49C; GAPB3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211548 representing NM_013565 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCCGGCCCTGCCGCTGCCCGGCCCTGGCTGGCTGCTCCGCGCTCTGGCCTTGATGGTGG
CGGCTTGGCGCCGGTGCCTTCGCTTCAACCTGGACACCCGATTCTGGTGGTGAAGGAGCGGTGAA
CCCCGGTAGCCTTTCGGCTACTCGGTCCGCTCCATCGGCAGACTGAGCGACAACAGCGCTACCTCCT
CTGGCCGGGGCTCCCCGGACCTCGCTGTGGGTGATGACTATACCAACCGGACTGGTGTGTACCTGT
GTCCCTCACGGCCACAAGGACGACTGTGAACGGATGGACATTCAGAGAAAAGTGACCCTGACCATCA
CATTATTGAGGATATGTGGCTTGGAGTACTGTGGCCAGCCAGGGCCCTGCAGGTAGAGTCTGGTCTGT
GCCCATCGGTACACCAAGGTGCTGTGGTCTGGGCTAGAAGACCAGCGGCCATGGTGGGCAAGTGCTATG
TGCGTGGCAATGACCTACAGCTCGACCCCGCGATGACTGGCAGACATACCACAACGAGATGTGTAACAG
CAACTGACTACTTGCAGACCGCATGTGCCAGCTGGGACCAGCGCGGCTTACCCAGAACACCGTA
TACTTCGGTGCCCTGGTGCCTACAACGGAAAGGAAACGCTACATGATTACCGGAAGGACTGGGATT
TATCTGAATATAGCTACAGGGGCTCAGAGGAGCAAGGAAACCTTATATTGGGTACCGGTGCAGGTAGG
CAACGCCATCCTACATCCACGGACATCATCTGTTGTGACGGGTGCCCCACGGCACCAACATATGGCC
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GGCGCATCCTTCCTGATCAACCTTCCTCCTGCTTACGGCCCCAGCCGCTCTGCCTTTGGCATCTCTA
TAGCCAGCATCGGTGACATCAACCAGGATGGATTCCAGGACATCGCTGTGGGAGCCCCATTTGAGGGCTT
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TGTGTT CAGGTGGAGCTGTGTTTTGCCTACAACCAGAGCGCTGGGAACCCCAACTACAGGCGGAACATCA
 CCCTGGCTTACACACTGGAGGCTGACAGGGACCGACGCCACCCAGGCTCCGATTTGCCCGCAGCCAGTC
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 TGCCCTGTATGAAGCTAAGAGGCAGAAGGCTGAGATGAAGAGCCAGCCGTCAGAGACAGAAGGCTGACC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211548 representing NM_013565
 Red=Cloning site Green=Tags(s)

MGPGPCRVPRAPGWLLRALALMVAACGRVAFANLDRFLVVKAEVNPGLSFGYSVALHRQTERQQRYLL
 LAGAPRDLAVGDDYTNRTGAVYLCPLTAHKDDCERMDISEKSDPDHIIEDMWLGVTVASQGPAGRVLVC
 AHRYTKVLSGLEDQRRMVGKCYVRGNDLQLDPGDDWQTYHNEMCNSNTDYLQTMGCQLGTSGGFTQNTV
 YFGAPGAYNWKNSYMIQRKDWLSEYSYRGSEEQGNLYIGYTVQVGNAILHPTDIIITVVTGAPRHQHM
 AVFLLKQESGGDLQRKQVLKGTQVGFSAIALADLNNDGWQDLLVGAPYYFERKEEVGGAVYVFMNQA
 GASFPDQPSLLLHGPRSAFGISIASIGDINQDGFQDIAVGAPFEGLGKVIYHSSGGLLRQPQI IHG
 EKLGLPGLATFGYSLSGKMDVDENLYPDLLVGSLSDHIVLLRARPVINILHRTLVARPAVLDPALCTATS
 CVQVELCFAYNQSAGNPYRRNITLAYTLEADRRRPPRLRFARSQSSVFHGF SMPETHCQTELELLMD
 NVRDKLRPIVIAMNYSPLRMPDRLKGLRSLDAYPVLNQAQAMENHTEVHFQKECGPDNKCDNSLQMR
 AFLSEQLQPLSRLQYSRDTKFLSINVTNPSQRAGEDAHEALLTLEVP SALLSSVRPSGTCQANNE
 TILCELGNPFKRNQRMELLIAFEVIGVTLHTRDLPVLLQLSTSSHQDNLQPVLLTLQVDYTLQASLSLMN
 HRLQSF FGGTVMGEAAMKTAEDVGSPLKYEFQVSPVGDGLAALGTLVLEWPEYVTNGKWL YPTEITI
 HSNGSWPCQPSGNLVNPLNLTSDPGVTPSPQRRRRQLDPGGDQSSPPVTLAAAKKAKSETVLTCSNGR
 ARCVWLECPDPDTSNITNVTVKARVWNSTFIEDYKDFDRVRVDGWATLFLRTSIPTINMENKTTWFSVDI
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 DDY

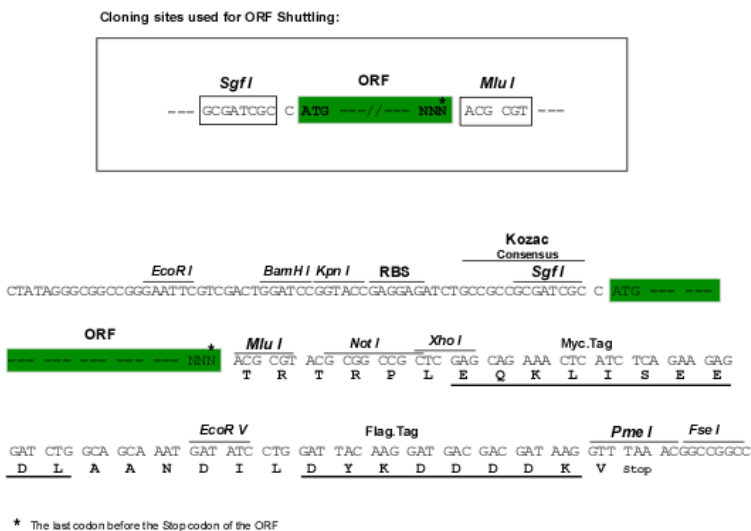
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9012_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013565

ORF Size: 3159 bp

OTI Disclaimer: 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_013565.3](#), [NP_038593.1](#)

RefSeq Size: 4870 bp

RefSeq ORF: 3162 bp

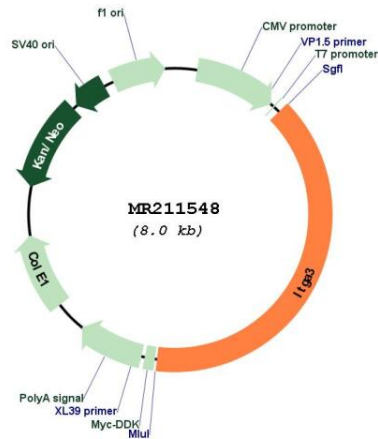
Locus ID: 16400

UniProt ID: [Q62470](#)

Cytogenetics: 11 59.01 cM
MW: 117.2 kDa

Gene Summary: This gene encodes a subunit of integrin family of cell surface proteins. The encoded protein undergoes post-translational processing to form a disulfide bond-linked dimer comprised of heavy and light chains. At the cell surface, the encoded protein non-covalently associates with the integrin beta-1 subunit to form a heterodimer that interacts with many extracellular matrix proteins including fibronectin and laminin. Mice lacking the encoded protein die during the first day after birth due to severe abnormalities in kidneys. Mice lacking the encoded protein specifically in the basal layer of epidermis display several skin defects and accelerated wound healing. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MR211548