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# 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCCCCGGCCCCTGCCGCGTGCCCCGCGCCCCTGGCTGGCTGCTCCGCGCTCTGGCCTTGATGGTGG
CGGCTTGCGGCCGGGTCGCCTTCGCCTTCAACCTGGACACCCGATTCCTGGTGGTGAAGGAGGCGGTGAA
CCCCGGTAGCCTCTTCGGCTACTCGGTCGCCCTCCATCGGCAGACTGAGCGACAACAGCGCTACCTCCTT
CTGGCCGGGGCTCCCCGGGACCTCGCTGTGGGTGATGACTATACCAACCGGACTGGTGCTGTGTACCTGT
GTCCCCTCACGGCCCACAAGGACGACTGTGAACGGATGGACATTTCAGAGAAAAGTGACCCTGACCATCA
CATTATTGAGGATATGTGGCTTGGAGTGACTGTGGCCAGCCAGGGCCCTGCAGGTAGAGTCCTGGTCTGT
GCCCATCGGTACACCAAGGTGCTGTGGTCTGGGCTAGAAGACCAGCGGCGCATGGTGGGCAAGTGCTATG
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CAACACTGACTACTTGCAGACCGGCATGTGCCAGCTGGGCACCAGCGGCGGCTTCACCCAGAACACCGTA
TACTTCGGTGCCCCTGGTGCCTACAACTGGAAAGGAAACAGCTACATGATTCAGCGGAAGGACTGGGATT
TATCTGAATATAGCTACAGGGGCTCAGAGGAGCAAGGAAACCTTTATATTGGGTACACGGTGCAGGTAGG
CAACGCCATCCTACATCCCACGGACATCATCACTGTTGTGACGGGTGCCCCACGGCACCAACATATGGGC
GCTGTCTTCTTGCTGAAGCAAGAGTCAGGTGGAGACCTGCAGAGGAAGCAGGTGCTGAAGGGCACGCAGG
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GGGTGCTCCCTACTACTTCGAACGGAAAGAGGAGGTAGGGGGTGCCGTCTATGTCTTCATGAACCAGGCG
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TAGCCAGCATCGGTGACATCAACCAGGATGGATTCCAGGACATCGCTGTGGGAGCCCCATTTGAGGGCTT
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CAATATCCTCCATAGGACCTTGGTGGCCAGGCCAGCTGTGTTGGACCCTGCGCTTTGTACAGCTACCTCC
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TGTGTTCAGGTGGAGCTGTGTTTTGCCTACAACCAGAGCGCTGGGAACCCCAACTACAGGCGGAACATCA
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GACGACTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

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

MGPGPCRVPRAPGWLLRALALMVAACGRVAFAFNLDTRFLVVKEAVNPGSLFGYSVALHRQTERQQRYLL
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AHRYTKVLWSGLEDQRRMVGKCYVRGNDLQLDPGDDWQTYHNEMCNSNTDYLQTGMCQLGTSGGFTQNTV
YFGAPGAYNWKGNSYMIQRKDWDLSEYSYRGSEEQGNLYIGYTVQVGNAILHPTDIITVVTGAPRHQHMG
AVFLLKQESGGDLQRKQVLKGTQVGAYFGSAIALADLNNDGWQDLLVGAPYYFERKEEVGGAVYVFMNQA
GASFPDQPSLLLHGPSRSAFGISIASIGDINQDGFQDIAVGAPFEGLGKVYIYHSSSGGLLRQPQQIIHG
EKLGLPGLATFGYSLSGKMDVDENLYPDLLVGSLSDHIVLLRARPVINILHRTLVARPAVLDPALCTATS
CVQVELCFAYNQSAGNPNYRRNITLAYTLEADRDRRPPRLRFARSQSSVFHGFFSMPETHCQTLELLLMD
NVRDKLRPIVIAMNYSLPLRMPDRLKLGLRSLDAYPVLNQAQAMENHTEVHFQKECGPDNKCDSNLQMRA
AFLSEQLQPLSRLQYSRDTKKLFLSINVTNSPSSQRAGEDAHEALLTLEVPSALLLSSVRPSGTCQANNE
TILCELGNPFKRNQRMELLIAFEVIGVTLHTRDLPVLLQLSTSSHQDNLQPVLLTLQVDYTLQASLSLMN
HRLQSFFGGTVMGEAAMKTAEDVGSPLKYEFQVSPVGDGLAALGTLVLGLEWPYEVTNGKWLLYPTEITI
HSNGSWPCQPSGNLVNPLNLTLSDPGVTPLSPQRRRRQLDPGGDQSSPPVTLAAAKKAKSETVLTCSNGR
ARCVWLECPLPDTSNITNVTVKARVWNSTFIEDYKDFDRVRVDGWATLFLRTSIPTINMENKTTWFSVDI
DSELVEELPAEIELWLVLVAVGAGLLLLGLIILLLWKCGFFKRARTRALYEAKRQKAEMKSQPSETERLT
DDY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

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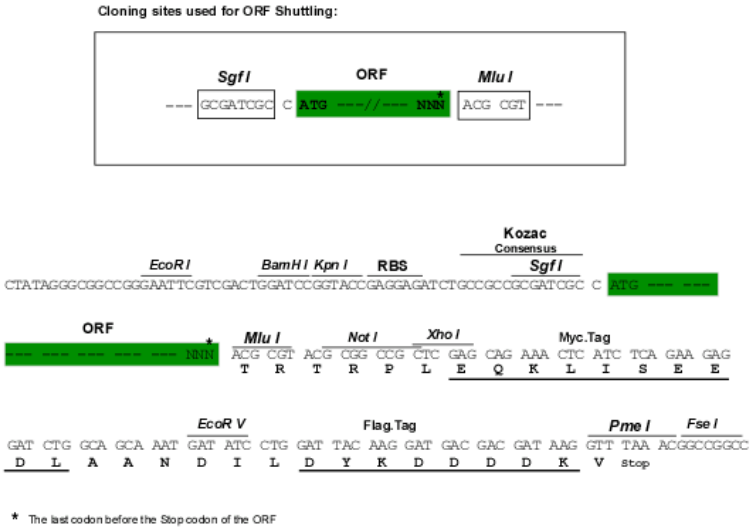
**Restriction Sites:** SgfI-MluI

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** NM_013565.3, NP_038593.1

**RefSeq Size:** 4870 bp

**RefSeq ORF:** 3162 bp

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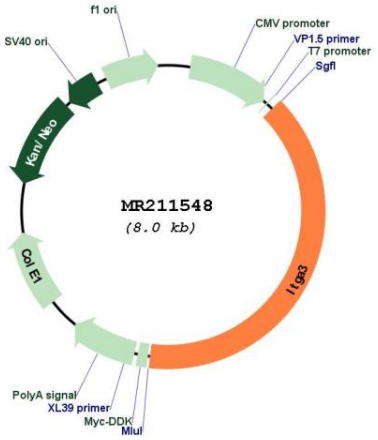
| | |
|---|---|
| **Locus ID:** | 16400 |
| **UniProt ID:** | Q62470 |
| **Cytogenetics:** | 11 59.01 cM |
| **MW:** | 117.2 kDa |
| **Gene Summary:** | This gene encodes a subunit of integrin family of cell surface proteins. The encoded protein undergoes post-translational processing to form a disulfide 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

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