

## Product datasheet for **MG211548**

### Itga3 (NM\_013565) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Itga3 (NM\_013565) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Itga3  
**Synonyms:** AA407068; CD49C; GAPB3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG211548 representing NM\_013565  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGCCCGGCCCTGCCGCTGCCCGGCCCTGGCTGGCTGCTCCGCGCTCTGGCCTTGATGGTGG  
 CGGCTTGGCGCCGGTGCCTTCGCTTCAACCTGGACACCCGATTCTGGTGGTGAAGGAGCGGTGAA  
 CCCCAGTACCTCTTCGGCTACTCGGTGCCCTCCATCGCAGACTGAGCGACAACAGCGCTACCTCCT  
 CTGGCCGGGGCTCCCCGGACCTCGCTGTGGGTGATGACTATACCAACCGGACTGGTGTGTACCTGT  
 GTCCCTCACGGCCACAAGGACGACTGTGAACGGATGGACATTCAGAGAAAAGTGACCCTGACCATCA  
 CATTATTGAGGATATGTGGCTTGGAGTACTGTGCCAGCCAGGGCCCTGCAGGTAGAGTCTGGTCTGT  
 GCCCATCGGTACCAAGGTGCTGTGGTCTGGGCTAGAAGACCAGCGGCCATGGTGGGCAAGTGCTATG  
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 CAACACTGACTACTTGCAGACCGCATGTGCCAGCTGGGACCAGCGCGGCTTACCCAGAACACCGTA  
 TACTTCGGTGCCCTGGTGCCTACAACGGAAAGGAAACGCTACATGATTACCGGAAGGACTGGGATT  
 TATCTGAATATAGCTACAGGGGCTCAGAGGAGCAAGGAAACCTTATATTGGGTACACGGTGCAGGTAGG  
 CAACGCCATCCTACATCCACGGACATCATCACTGTTGTGACGGGTGCCCCACGGCACCAACATATGGCC  
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 GGGTGCTCCCTACTACTTCAACGAAAGAGGAGGTAGGGGTGCCGCTATGTCTTCATGAACAGGCG  
 GGCGCATCCTTCCTGATCAACCTTCCTCCTGCTTACGGCCCCAGCCGCTCTGCCTTTGGCATCTCTA  
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 GGGCAAAGTCTACATCTACCACAGCAGCTCCGGGGGGCTCCTCAGGCAGCCCCAGCAGATAATCCATGGA  
 GAGAACTCGGACTGCCAGGCTTGGCCACCTTCGGCTACTCCCTGAGCGGAAGATGGATGTGGATGAAA  
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 CAATATCTCCATAGGACCTTGGTGGCCAGGCCAGCTGTGTTGGACCCTGCGCTTTGTACAGCTACCTCC



TGTGTT CAGGTGGAGCTGTGTTTTGCCTACAACCAGAGCGCTGGGAACCCCAACTACAGGCGGAACATCA  
 CCCTGGCTTACACACTGGAGGCTGACAGGGACCGACGCCACCCAGGCTCCGATTTGCCCGCAGCCAGTC  
 ATCTGTCTTCCACGGCTTCTTCTCCATGCCAGAGACACATTGCCAGACTGGAGTTACTGCTGATGGAC  
 AATGTTCCGCGATAAACTCCGCTCATCGTCATTGCCATGAACTACTCCTTACCTTGCGCATGCCTGATC  
 GCCTCAAGCTCGGCTTGGGCTCTCTGGATGCCTACCCAGTCTCAACCAGGCACAGGCTATGGAGAATCA  
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 GCCTTCCGTCTGAGCAGCTGCAGCCTTAAGCAGGCTCCAGTACAGCAGAGACACTAAGAACTGTTTT  
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 GCCCGTGTGTGGCTGGAGTGCCCCCTTCCAGACACCTCCAACATTACCAATGTGACCGTGAAGACAC  
 GGGTGTGGAACAGCACCTTATTGAGGACTACAAAGACTTTGACAGAGTCAGGGTAGATGGCTGGGCTAC  
 CCTGTTCTGAGAACCAGCATCCCTACCATCAACATGGAGAACAAGACCACATGGTTCTCTGTGGACATT  
 GACTCAGAGCTGGTGGAGGAGCTGCCGGCTGAGATTGAGCTGTGGTTGGTCTTGGCCGTGGGTGCTG  
 GGTGCTGCTGGGGCTCATCATCTCTCTTGTGGAAGTGGCGCTTCTTCAAGCGAGCCCGCACTCG  
 TGCCCTGTATGAAGCTAAGAGGCAGAAGGCTGAGATGAAGAGCCAGCCGTCAGAGACAGAAGGCTGACC  
 GACGACTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG211548 representing NM\_013565  
 Red=Cloning site Green=Tags(s)

MGPGPCRVPRAPGWLLRALALMVAACGRVAFANLDTRFLVVKAEAVNPGSLFGYSVALHRQTERQQRYLL  
 LAGAPRDLAVGDDYTNRTGAVYLCPLTAHKDDCERMDISEKSDPDHIIEDMWLGVTVASQGPAGRVLVC  
 AHRYTKVLSGLEDRRMVKGKCYVRGNDLQLDPGDDWQTYHNEMCNSNTDYLQTMGCQLGTSGGFTQNTV  
 YFGAPGAYNWKNSYMIQRKDWLSEYSYRGSEEQGNLYIGYTVQVGNAILHPTDIIITVVTGAPRHQHM  
 AVFLLKQESGGDLQRKQVLKGTQVGFSAIALADLNNDGWQDLLVGAPYYFERKEEVGGAVYVFMNQA  
 GASFPDQPSLLLHGPRSAFGISIASIGDINQDGFQDIIVGAPFEGLGKVIYHSSGGLLRQPQI IHG  
 EKLGLPLATFGYSLSGKMDVDENLYPDLLVGSLSDHIVLLRARPVINILHRTLVARPAVLDPALCTATS  
 CVQVELCFAYNQSAGNPYRRNITLAYTLEADRRRPPRLRFARSQSSVFHGF SMPETHCQTLELLLMD  
 NVRDKLRPIVIAMNYSPLRMPDRLKGLRSLDAYPVLNQAQAMENHTEVHFQKECGPDNKCDNLQMRA  
 AFLSEQLQPLSRLQYSRDTKKLFLSINVTNSPSSQRAGEDAHEALLTLEVPSALLSSVRPSGTCQANNE  
 TILCELGNPFKRNQRMELLIAFEVIGVTLHTRDLPVLLQLSTSSHQDNLQPVLLTLQVDYTLQASLSLMN  
 HRLQSFFGGTVMGEAAMKTAEDVGSPLKYEFQVSPVGDGLAALGTLVLGLEWPYEVTNGKLLYPTIITI  
 HSNGSWCQPSGNLVNPLNLTSDPGVTPLSPQRRRRLDPGGDQSSPVTLAAAKKAKSETVL TCSNGR  
 ARCVWLECPDPDTSNITNVTVKARVWNSFIEDYKDFDRVVDGWATLFLRTSIPTINMENKTTWF SVDI  
 DSELVEELPAEIELWLVLVAVGAGLLLLGLIILLWKCGFFKRARTRALYEAQRQKAEMKQSPSETERL  
 TDDY

TRTRPLE – GFP Tag – V

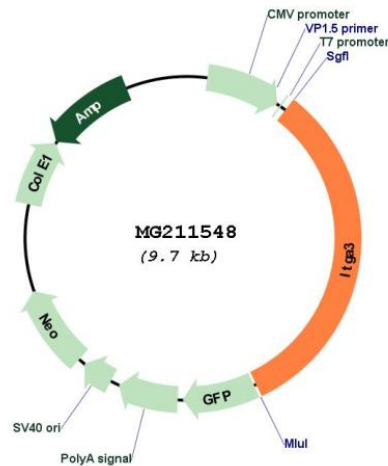
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_013565.3</a></u> , <u><a href="#">NP_038593.1</a></u>
<b>RefSeq Size:</b>	4870 bp
<b>RefSeq ORF:</b>	3162 bp
<b>Locus ID:</b>	16400
<b>UniProt ID:</b>	<u><a href="#">Q62470</a></u>
<b>Cytogenetics:</b>	11 59.01 cM
<b>Gene Summary:</b>	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]