

## Product datasheet for **MG227156**

### **Itgb4 (NM\_133663) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Itgb4 (NM\_133663) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Itgb4  
**Synonyms:** AA407042; C230078O20; CD104  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG227156 representing NM\_133663  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGGGCCCTGTTGCAGCCCATGGGTGAAGCTGCTGCTGCTGGCAGCAATGCTGAGTGCCAGCCTCC  
CTGGAGACCTGGCCAACCGCTGCAAGAAGGCTCAGGTGAAGAGCTGTACCGAGTGCATCCGGGTGGACAA  
GAGCTGTGCCTACTGCACAGACGAGCTGTTCAAGGAGAGGCGCTGCAACACCCAGGCGGAGCTTCTGGCT  
GCAGGCTGCAGGGGAGAGAGCATCCTGGTCATGGAGAGCAGCCTTGAAATCACAGAGAACACCCAGATCG  
ACACCAGCCTGCACCGCAGCCAGGTATCTCCCAAGGCCTGCAAGTCCGGCTGCGGCCGGGTGAGGAGCG  
CAGCTTTGTGTTCCAGGTGTTTGTAGCCCTGGAGAGCCCGTGGATCTGTATATCCTCATGGACTTCTCC  
AACTCCATGTCTGACGATCTGGACAACCTCAAGCAGATGGGGCAGAACCTGGCCAAGATCCTGCGCCAGC  
TCACCAGCGACTACACCATTTGGATTTGGAAAGTTTGTGGACAAAGTCAGCGTCCCACAGACAGACATGAG  
GCCCGAGAAACTGAAGGAGCCCTGGCCCAACAGTGATCCCCCGTTCTCCTTCAAGAACGTTATCAGCTTA  
ACGGAGAATGTGGAAGAATTCTGGAACAACTGCAAGGAGAACGCATCTCAGGCAACCTGGACGCTCCTG  
AAGGGGCTTTGATGCCATCCTGCAGACAGCTGTGTGCACAAGGGACATTGGCTGGAGGGCTGACAGCAC  
CCACCTGCTGGTGTCTCCACCGAGTCTGCCTTCCACTACGAGGCTGATGGTGCCAACGCTGCTGGCCGGC  
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ACTACCCATCAGTGCCACGCTGGTTCGCCTGCTTGCCAAGCATAACATCATCCCATCTTTGCTGTAC  
CAACTACTCTTACAGCTACTATGAGAAGCTCCATAAGTATTTCCCGTCTCCTCTCTGGCGTCTCCTGCAG  
GAGGATTCATCCAACATCGTGGAGCTGTGGAGGAGGCCTTATCGAATTCGCTCCAACCTGGACATCC  
GGGCTCTGGACAGCCCCAGAGCCTGAGAACAGAGGTCACCTCCGATACTCTCCAGAAGACGGAGACTGG  
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ACCTGCAACTGCTCCACCGGCTCTCTGAGTGACACACAGCCCTGCCTGCCTGAGGGTGAGGACAAACCGT  
 GCTCGGGCCACGGCGAGTGCCAGTGCGGACGCTGTGTGTCTATGGTGAAGGCCGCTACGAGGGTCACTT  
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 TCTGCGGTCCCCAGCCAGCAGCCAGGCCCAGCGTTTCTGATGACACTGAGCACCTGGTGAATGGCCG  
 GATGGACTTTGCCTATCCAGGCAGCGCCAACCTCCCTGCACAGAATGACTGCAGCCAATGTGGCCTATGGC  
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 ACCAGCTACTAACGGCGGCGAGATGCATCGGCTCAACATCCCTAACCTGGCCAAACCTCGGTGGTGGT  
 AGAGGATCTCCTGCCTAACCACTCCTATGTGTTCCGGTACGGGCCAGAGCCAGGAGGGCTGGGGCCGA  
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 CTGGCCTCAGTGAGAAGTTCCTTACAAGTTCAAGGTTCAAGGTTCAAGGTTCAAGGTTCAAGGTTCAAGG  
 CGGTGAGGGTATCATCACCATCGAGTCTCAGGTTGGAGGCCCCCTCCACAGCTGGGCAGCCATTCTGG  
 CTCTCCAGAACCAGTGCAAAGCGAGTTCAGCAGCGTGACCAGCACGCACAGCACCAGCACTGAGCCCT

TCCTCATGGATGGTCTAACCCCTGGGGACCCAGCGCCTGGAAGCAGGAGGCTCCCTCACCCGGCATGTGAC  
 CCAGGAATTCGTGACCCGGACCTAACGGCCAGTGGCTCTCTCAGCACTCATATGGACCAACAGTTCTTC  
 CAAACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG227156 representing NM\_133663  
 Red=Cloning site Green=Tags(s)

MAGPCCSPWVKLLLLAAML SASLPGDLANRCKKAQVKSCTECIRVDKSCAYCTDELFKERRCNTQAELLA  
 AGCRGESILVMESSELEITENTQIDTSLHRSQVSPQGLQVRLRPGEERSFVFQVFEPLSPVDLYILMDFS  
 NSMSDDLNLKQMGQNLAKILRQLTSDYITIGFKFVVKVSPQTDMRPEKLKEPWPNSDPPFSFKNVISL  
 TENVEEFWNKLQGERISGNLDAPEGGFDAILQTAVCTRDI GWRADSTHLLVSTESAFHYEADGANVLAG  
 IMNRNDEKCHLDASGAYTQYKTQDYPSVPTLVRL LAKHNIPIFAVTNYSYSYIEKLHKYFPVSSLGVLQ  
 EDSSNIVELLEAFYRIRSNLDIRALDSPRGLRTEVTSDTLQKTEGTFHFKRGEVGTYNVHLRAVEDID  
 GTHVCQLAKEDQGGNIHLKPSFSDGLRMDASVICDVCPCELQKEVRSARCHFRGDFMCGHCVCNEGWSGK  
 TCNCSTGSLSDTQPCLREGEDKPCSGHGECQCGRCVCYGEGRYEGHFCEYDNFQCPRTSGFLCNDRGRCS  
 MGECVCEPGWTGRSCDCPLSNATCIDSNGGICNGRGYCECGRCHCNQQLYDTTCEINYSAIRLGLCED  
 LRSCVQCQAWGTGEKKGRACDDCPFKVKMVDLKEEVVEYCSFRDEDDCTYSYNVEGDGSPGNSTVL  
 VHKKKDCPPGFSFWLIPLLIFLLLLLALLLLLCWKYCACCKACLGLLPCCNRGHMVGFKEDHYMLRENLM  
 ASDHLDTPLMRSGNLKGRDTRWKITNNVQRPGFATHAASTSPTELVPYGLSLRLGRLCTENLMKPGTRE  
 CDQLRQEVEENLNEVYRQVSGAHLKQTKFRQPNQTKGKQDHTIVDVTLLAPRSKQMLLKLTEKQVEQG  
 SFHELKVPAGYYTVTAEQDARGMVEFQEGVELVDVVRVPLFIRPEDDDEKQLLVEAIDVPGTATLGRRLV  
 NITIIKEQASGVVSFEQPEYSVSRGDQVARIPVIRHILDNGKSQVSYSTQDNTAHGHRDYVPVEGELLFH  
 PGETWKELQVKLELQEVDLRLGRQVRRFQVQLSNPKFGARLQGPSTTTVILGEHDETDRSLINQTLSS  
 PPPPHGDLGAPQNPNAKAAGSRKIHFNWLP PPGKPMGYRVKYWIQGDSESEAHLLDSKVPSVELTNLYPY  
 CDYEMKVCA YGAGGEGPYSSLVSCRTHQEV PSEPGRLAFNVVSSVTQLSWAEP AETNGEITAYEVCYGL  
 VNEDNRP IGP MKKVLVDNPKNRMLLIENLRESQPYRYTVKARNGAGWGP EREAIINLATQPKRPM SIIPII  
 PDIP I VDAQGGEDYENFLMYSDDVLRSPASSQRPSVSDDEHLVNGRMDFA YPGSANS LHRMTAANVAYG  
 THLSPHLSHRVLSSTLTRDYHSLTRTEHSHSGTLPRDYSTL TSLSSQDSRGAVGVPDTPTRLVFSALG  
 PTLKVSWSQEPQCDRMLLGYSVEYQLLNGGEMHRLNIPNPGQTSVVVEDLLPNHSYVFRVRAQSQEGWGR  
 EREGVITIESQVHPQSPLCPLPGSAFTLSTPSAPGLVFTALSPDSLQLSWERPRRPNGDILGYLVTCEM  
 AQGGAPARTFRVDGDNPE SRLTV PGLSENVPYKFKVQARTTEGFGPEREGIIITIESQVGGPFPQLGSHSG  
 LFQNPVQSEFSSVTSTHSTTTEPFLMDGLTLGTQRLEAGGSLTRHVTQEFVTRTLTASGSLSTHMDQQFF  
 QT

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_133663
<b>ORF Size:</b>	5256 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_133663.2</a> , <a href="#">NP_598424.2</a>
<b>RefSeq Size:</b>	6010 bp
<b>RefSeq ORF:</b>	5259 bp
<b>Locus ID:</b>	192897
<b>Cytogenetics:</b>	11 80.91 cM
<b>Gene Summary:</b>	Integrins are heterodimers comprised of alpha and beta subunits, that are noncovalently associated transmembrane glycoprotein receptors. Different combinations of alpha and beta polypeptides form complexes that vary in their ligand-binding specificities. Integrins mediate cell-matrix or cell-cell adhesion, and transduced signals that regulate gene expression and cell growth. This gene encodes the integrin beta 4 subunit, a receptor for the laminins. This subunit tends to associate with alpha 6 subunit and is likely to play a pivotal role in the biology of invasive carcinoma. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]