

## Product datasheet for **MC220691**

### **Itgb6 (NM\_001159564) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Itgb6 (NM_001159564) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Itgb6
Synonyms:	2210409C20Rik; 4831415H04Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220691 representing NM\_001159564  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGATTGAGCTGGTCTGCCTGTTTCTGCTACTTCTAGGAAGGAATGATCACGTCCAAGTGGCTGTG  
 CCTGGGGTGGTGCAGAAAGCTGCTCAGACTGCCTGCTCACAGGACCCACTGCGCCTGGTCTCCAGGA  
 GAATTTACCCACCTGTCTGGAGCTGGCGAGAGGTGCGACACCCAGCGAATCTTTAGCCAAAGGATGT  
 CAACTACCCTTCAATTGAAAACCTGTCTCCGCATAGAAGTCTTCAAAAAGCCTCTCAGCGTGGGCC  
 GACAGAAGAACAGTTCTGACATTGTTTCTGATTGCTCCTCAAAGCTTGGTCTTAAATTGAGACCAGGGCG  
 TGAGCAGACTCTGCAAGTGCAGGTCCGCCAACTGAAGATTACCCAGTAGATCTGTATTACCTCATGGAC  
 CTCTCCGCCTCTATGGATGACGACCTCAACACCATCAAAGAGCTTGGCTCCCGGCTGGCCAAAGAGATGT  
 CCAAACCTAACAGCAACTTAGACTGGGCTTTGGCTCTTTGTGAAAAGCCGTTTCTCCTTTTATGAA  
 AACACCCAGAGGAAATCACCAACCTTGCAGTAGTATCCCCTATTTCTGCTTACCTACATTTGGATTC  
 AAGCACATTTTGGCATTAACTGATGATGCCGAGAGATTCAATGAAATTGTGAGGAAACAGAAAGATTCTG  
 CTAATATTGACACACCTGAAGGTGGATTGATGCAATCATGCAGGCTGCTGTGTGAAGGAAAAGATTGG  
 CTGGCGCAATGACTCGCTCCACCTCCTGGTTTTGTGAGTGATGCCGATTCTCATTTTGGAAATGGACAGC  
 AAGCTGGCAGGCATTGTCAATCCAATGATGGACTCTGTCACTTGGACCACAGGAATGAATATTCATGT  
 CAACTGTCTTGGAAATATCCAATATCGGCCAACTCATTGATAAAGTGGTACAAAACACGTGCTACTGAT  
 CTTTGCAGTACCCAAGAACAAGTCCATCTGTATGAGAACTATGCAAACTCATTCTGGAGCAACCGTG  
 GGACTGCTTCAAGGATTCTGGGAACATCCTCAGCTGATCATCTCCGTTATGAAGAATCGGGTCTG  
 AGGTGGAAGTGGAAAGTGTAGGGGACAGAAAGACTCAACCTGTCTTTCACAGCTCTCTGTAACAATGG  
 TGTCTCTTCCACACCAAAAAGAAATGCTCCACATGAAAGTTGGAGACACAGCATCCTTCAATGTGACT  
 GTGAGCGTATCCAAGTGTGAGAAAAGAGCAGGAACCTCATCATAAAGCCAGTGGGGCTGGGGGACACCC  
 TAGAAATACTCGTCAGTGCAGAATGTGACTGCGACTGCCAGAGAGAAATAGAAACTAACAGCTCTAAGTG  
 TCACAATGGGAATGGCTCCTTCCAGTGTGGGTGTGTACCTGCAACCCCGGCCACATGGGTCTCACTGC  
 GAGTGTGGTGGGATATGGTGGCAGGATTCTGCAAGGAGTCCCGGGTACCCTTATGCAGTGGAA  
 GGGGTGACTGCTATTGTGGCAGTGCATCTGCCACTTATCGCCGTACGGAAGCATCTACGGACCTTACTG  
 CCAGTGTGACAATTTCTCTGTCTGAGACAAAAGCCTTCTCTGTGGAGATAACGGTACTGTGACTGT  
 GCGGAGTGTGTGCCGGATGGCTGGACAGGTGAATACTGTAAGTGTACAACCAACAGGGACTCGTGTA  
 CATCTGAGGATGGAGTGTGTGCAAGTGGAGTGGGGACTGTGTCTGTGGCAAGTGTGTCTGCAGAAACCC  
 TGGAGCCTCAGGACCCACCTGTGAACGCTGTCTACCTGTGGCGACCCCTGTAACCTAAACGGAGTTGC  
 ATCGAGTGTACCTGTCTGCAGATGGCCAGGCCAAGAAGAGTGTGCTGACAAGTGTAAAGCCATTGGTG  
 CCACCATCAGTGGGAAGATTTTCAAAGGATACTTCTGTCTCCTGCTCTCTACAAGGAGAAAATGAATG  
 CCTTATTACATTCCTAATAACTACGGATAATGAAGGAAAACCATCATTACAACATCAATGAAAAAGAC  
 TGCCCCAAACCTCAAACATCCCATGATCATGTTGGGGTGTCACTGGCGATCCTGCTCATCGGAGTTG  
 TGCTACTGTGATTTGGAAGCTGCTGGTATCATTTTATGACCGGAAGGAAGTTGCTAAATTTGAAGCAGA  
 ACGCTCTAAGGCCAAGTGGCAAACGGGAACCAATCCTCTGTACCGAGGTTCCACCAGCACTTTAAGAAC  
 GTGACCTACAAGCACAGGGAAGCACAAGCAGGCCTTTCCTCAGATGGG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_001159564  
**Insert Size:** 2364 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](mailto: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\\_001159564.1](#), [NP\\_001153036.1](#)

**RefSeq Size:** 4894 bp

**RefSeq ORF:** 2364 bp

**Locus ID:** 16420

**UniProt ID:** [Q9Z0T9](#)

**Cytogenetics:** 2 34.81 cM

**Gene Summary:** Integrin alpha-V:beta-6 (ITGAV:ITGB6) is a receptor for fibronectin and cytotactin (By similarity). It recognizes the sequence R-G-D in its ligands (PubMed:10025398). ITGAV:ITGB6 acts as a receptor for fibrillin-1 (FBN1) and mediates R-G-D-dependent cell adhesion to FBN1 (By similarity). Integrin alpha-V:beta-6 (ITGAV:ITGB6) mediates R-G-D-dependent release of transforming growth factor beta-1 (TGF-beta-1) from regulatory Latency-associated peptide (LAP), thereby playing a key role in TGF-beta-1 activation (PubMed:10025398).  
[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript. Both variants encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.