

## Product datasheet for **MC201018**

### **Itgb7 (BC011184) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Itgb7 (BC011184) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Itgb7
Synonyms:	Ly69
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC011184  
 GTACACAAGGGCTGCCACTGCCACCGGCGGAGGAAGGGCTGCTCCTCCTCAAGCACCTGCCATGGTGGAT  
 TCATCAACTGTTCTCATTTTTCTGCTGGTTCTGGGCGGAGGTCAGAGTGAGTTAGATACCAAGATTACAT  
 CCTCTGGGGAGGCCGAGAAATGGGAGGATCCTGACCTGTCTCTGCAGGGATCCTGCCAGCCAGTTCCTTC  
 CTGCCAGAAGTGTATTCTCTCACATCCCAGCTGTGCATGGTGCAAACAACCTGAACCTCACTGCCTCGGGA  
 GAGGCAGAGGCGAGGCGCTGCGCGGGCGAGAGGAGCTACTGGCTCGCGGGTGCCCGCGCAGGAGCTAG  
 AGGAGCCGAGAGGCCCGCAGGAGGTGCTGCAGGACAAGCCGCTCAGCCAGGGAGATCGCGGCGAGGGGGC  
 CACCCAGCTGGCCCCGACGCGGATCCGCGTACAGCTGCGACCAAGGGAGGCCAGAAATTCGCGGTCCGC  
 TTCTCCGAGCTGCGGGGTACCCCGTGGACCTATATTACCTTATGGACCTGAGCTACTCAATGAAGGACG  
 ACTTGGAACTGTGCGCCAGCTAGGGCATGCCCTGCTGGTTCAGGCTGCAGGAGGTCACACATTCTGTGCG  
 CATAGGTTTTGGCTCCTTCGTGGACAAAACGGTGTGCCCTTTGTAAGCACCGTGCCTCCAAGTTCAC  
 CACCCATGCCAGCCGACTGGAGCGTTGTGAGCCACCTTCAGCTTTCACCACGTGTCTCCCTCACCG  
 GGGACGCTCAAGCCTTCGAGAGAGAGGTGGGACGCCAGAATGTCTCTGGCAACCTGGACTCACCCGAAGG  
 CGGCTTTGATGCCATTTGCAGGCTGCCCTCTGCCAGGAACAGATTGGCTGGAGAAATGTCTCCCGTCTT  
 CTAGTGTTCACTTCAGACGATACATCCACACAGCTGGGGATGGGAAACTGGGTGCCATTTTCATGCCCA  
 GCGACGGGCGGTGCCATCTGGACAGCAATGGTGTCTACACGAACAGCGCAGAGTTTGACTATCCCTCTGT  
 GGGTCAAGTAGCCAGGCCCTCACTGCAGCAATATCCAACCTATCTTTGCTGTACCCGGTGCAACACTG  
 CCTGTGTATCAGGAGCTGAGACAGTTGATTCCAAAGTCTGCTGTGCGGGAGCTGAGTGAGGACTCCAGCA  
 ATGTGGTGCAGCTCATCATGGATGCTTATGATAGCCTGTCCACTGTGACTCTTGAGCACTCTCCACT  
 CCCACCAGGAGTCAGCATCTCCTTTGAATCTCACTGTAAGGGTCTGAGAAGACGGAGGGTGAGGCTGGG  
 GACCGGGGACAGTGCAATGATGTCGAGTCAACCAGACGGTGGATTTCTGGGTCACTCTTCAAGCTACTC  
 ACTGCCTCCCAGAAGCCACGTCCTACGACTCTGGGCTCTGGCTTCTCAGAGGAGTTAACTGTGGAGCT  
 GCACACAGTGTGCGACTGTAAGTGTGGTGTGCCAGCCTCAGCTCCCTACTGCAGTGATGGACAGGGG  
 GACCTTCAGTGGGATATGACAGCTGTGCCCTGGCCGTCTTGGTCAGCTGTGTAATGCTCTGAGGCTG  
 ACCTGTCTCCCCAGATTTGGAATCTGGTTGCCGGGCCCAAACGGGACAGGGCCCTATGCAGCGGGAA  
 GGGTCGATGCCAATGTGGACGCTGCAGTGCAGTGGGAGAGCTCTGGCGTCTGTGCGAGTGTGATGAT  
 GCCAGCTGTGAGCGACATGAGGGCATCCTCTGTGGAGGCTTTGGCCACTGCCAGTGTGGAGTATGCACT  
 GTCAGGCCAACACACCGGCAGAGCTTGCAGTGCAGCAAGAGTGTAGACAGCTGTGTCAGTCTGAAGG  
 AGGGCTCTGCAGTGGGACGGATACTGCAATGCAACCGTTGCCAGTGCCTGGATGGCTACTACGGGGCT  
 CTGTGTGACCAGTGCCTAGGCTGCAAGTACCATGTGAGCAGTACAGGGATTGTGCAGAGTCCGGGGCAT  
 TTGGTACCGGTCCCTGGCAGCCAACTGTAGTGGTCTGTGCTGACGTGAATGTGACCTTGACCTTGGC  
 CCTAACTTGGATGATGGCTGGTCAAAGAAAGGACAATAGACAACAGCTGTTCTTCTTCTGGTGGAG  
 CATGCAGCCAGCGGGATCGTACTGAGAGTGAGACCCCAAGAGAAGGGAGTGGATCACACCCGTGCCATCA  
 TACTGGGCTGCACAGGGGGCATCGTGGCAGTGGGACTAGGGCTGGTTCTGGCTTACCGGCTCTCTGTGGA  
 AATCTACGACCGAGGGAGTACAGGCGCTTTGAGAAGGAGCAGCAGCAACTCAACTGGAAGCAGGACAAC  
 AATCCTCTCTACAAAAGTGCATACAACCACTGTCAACCCCGCTTCCAAGGGACAAACGGTGGTCCG  
 CATCCCTCTCTGACCAGGGAAGCAGACTGACTTAGGATTCTTGTCTTGGAGGACAGTGGAGATAGAAG  
 GGCAGGGCAGCGTCTGTGAGGCAAGATGCTGCCACCGCTGAGATTTTTTCAGAGTGACCTTCAGAGGGCA  
 GCAGCCATTCCCACCACGAAGGGCTGGTCTCCATAATAAAGCTTTGCCAGAAAAA A A

- Restriction Sites:** RsrII-NotI
- ACCN:** BC011184
- Insert Size:** 2421 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:** [BC011184](#), [AAH11184](#)

**RefSeq Size:** 2662 bp

**RefSeq ORF:** 2421 bp

**Locus ID:** 16421

**Cytogenetics:** 15 57.39 cM

**Gene Summary:** Integrin alpha-4/beta-7 (Peyer patches-specific homing receptor LPAM-1) is involved in adhesive interactions of leukocytes. It is a receptor for fibronectin and recognizes one or more domains within the alternatively spliced CS-1 region of fibronectin. Integrin alpha-4/beta-7 is also a receptor for MADCAM1 and VCAM1. It recognizes the sequence L-D-T in MADCAM1. Integrin alpha-E/beta-7 is a receptor for E-cadherin.[UniProtKB/Swiss-Prot Function]