

Product datasheet for **MR227668**

Itgb8 (NM_177290) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itgb8 (NM_177290) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itgb8
Synonyms:	4832412O06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227668 representing NM_177290
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGCGGCTCGGCCCTGGCTTTTCTGACTGCTGCACTGCTCTCTGCACAACCTGCCAGCGAGGTCCAG
 CCTTGGTTCCTGGGGCAGCCTGGGTATTTTCACTTGTTCTCGGACTGGGCCAAAGTGAACACAATAGATG
 TGGCTCTGCAAAATGTGGTCTCCTGTGCCAGGTGCCTCCAGCTGGGTCCGGAATGCGGATGGTGTGTTCAA
 GAGGATTTTGTTCAGGTGGATCAGGAAGTGAACGTTGTGATACTGTTTCCAGTTTGATAAGCAAAGGCT
 GTCCAGTTGATTC AATAGAAATACCTGTCTGTGCATGTTGTAACGTCAAGTGAAGTGAATCAATACCCA
 GGTGACACCGGGAGAAGTCTCAGTCCAACCTGCATCCAGGAGCTGAAGCTAATTTTATGTTAAAAGTCCGT
 CCTCTGAAGAAATACCCCGTGGATCTTTATTATCTGGTTGATGTGCAGCATCAATGCACAATAATATAG
 AAAAATGAATTCGGTTGAAATGATTTATCTAAAAAAATGGCCCTTTATTCCTGACTTCCGTCTTGG
 TTTTGGCTCATATGTGGATAAACTGTCTGCCATACATTAGTATCCACCCGAAAGGATCCACAATCAG
 TGCACTGACTACAATTTAGACTGTATGCCTCCCATGGATACATTCATGTGCTGTCTCTGACAGAAAACA
 TCACTGAGTTTGA AAAAGCAGTCCACAGACAAAAGATCTCTGAAACATAGACACCCCTGAAGGAGGTTT
 TGATGCCATGCTTCAGGCTGCCGTCTGTGAGAGTCATATTGGATGGCGAAAAGAAGCTAAAAGATTGCTG
 CTGGTGATGACAGACCAGACATCACATCTTGCTCTTGACAGCAAATTGGCAGGCATAGTGGTGCCGAATG
 ACGGAACTGCCATCTCAAAAACAATGTCTACGTCAAATCGACAACCATGGAACATCCGTCATTAGGCCA
 ACTTTCTGAAAAGTTAATAGACAACAACATAAATGTCAATTTTGCAGTTCAAGGAAAGCAGTTTCATTGG
 TACAAGGACCTTCTGCCCTTTTGCCTGGTGCCATTGCTGGTGAATAGAATCCAAGCTGCAAAATCTCA
 ACAATTTAGTAGTAGAAGCCTACAAGAAGATTATCTCAGAAGTAAAAGTGCAGCTGGAAAACCAAGTACA
 CGGTGTCCATTTTAAACATCACTGCCATCTGTCCAGATGGGGCCAGAAAGCCAGGCATAAGTGGGTGTGGA
 AACGTGACAAGCAATGACGAAGTTCTTTTCAATGTAACCTGTTGTGATGAAAACATGTGATATCATGGGAG
 GAAAAAATATGCAATAATCAAGCCTATTGGTTTCAATGAAACCACTAAAAGTCCACATACACAGAAGCTG
 CAGTTGCCAGTGTGAGAACCACAGAGGACTCAAAGGACAGTGTGCGGAAGCTGCCCCAGACCCCAAGTGT
 CCACAGTGTGATGACAGCAGATGTCAATTTGATGAAGACCAGTTTCTTCTGAAACTTGAAGCCACAGG
 AGGATCAACCTGTCTGCAGTGGCCGAGGTGTTTGCATCTGTGGGAAATGTTTATGTCACAAAACCAAGCT
 AGGAAGAGTGTATGGCCAGTACTGTGAGAAGGATGACTTCTCCTGTCCCTATCTCCATGGGGATGTGTGT
 GCTGGGCATGGGGAGTGTGAAGGTGGCAGATGCCAGTGTCTTGTGGCTGGGAAGGAGATCGGTGTCAGT
 GCCCATCAGCCTCAGCACAGCACTGTGTCAACTCCAAGGGCCAAGTTTGCAGCGGAGAGGCACCTGCGT
 GTGTGGCAGGTGTGAGTGTACTGATCCCAGAAGCATTGGCCGTCTCTGTGAGCACTGCCAACCTGCCAT
 CTCTCCTGCAGTGA AAACTGGAATTGTCTGCAGTGCCTTACCCTCACAACTGTGCTCAGGCTGCCCTTG
 ATCAGTGTAAATCCTCCTGTGCTGTCAATGGAACAGCATCGCATGGACCAAAACATCAGAATGTTTATCTGG
 CCCAAGCTATCTGCGAATATTTTTCATCATATTCATAGTCACATTCCTTGATCGGGTTGCTTAAAGTTCTT
 ATCATTAGACAAGTGATACTACAATGGAATAATAATAAAAATAAAGTCTCATCAGATTATAGAATGTCTG
 CTTCTAAAAGGATAAACTGATTCTGCAAAGTGTTCACGAGAGCTGTAACCTACCGACGAGAAAAGCC
 TGAGGAAATAAAAATGGATATCAGCAAACCTAAATGCTCAGGAGGCCTTCAGGTGCAACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227668 representing NM_177290
 Red=Cloning site Green=Tags(s)

MCGSALAFLLTAALLSLHNCQRGPALVLGAAWVFSVLVGLGQSEHNRCGSANVVSCARCLQLGPECGWCVQ
 EDFVSGGSGSERCDTVSSLSISKGCPVDSIEYLSVHVVTSSENEINTQVTPGEVSVQLHPGAEANFMLKVR
 PLKKYPVDLYLVDVSASMHNNIEKLSVGNL SKKMLYSRDFRLGFGSYVDKTVSPYISIHPERIHNQ
 CSDYNLDCMPPHGYIHVLSLTENITFEFEKAVHRQKISGNIDTPEGGFDA MLQAAVCESHIGWRKEAKRLL
 LVMTDQTSHLALDSKLAGIVVPNDGNCHLKNNVYVKSTTMEHPSLQGLSEKLIDNNIN VIFAVQGKQFHW
 YKDLLPLLPGAIAGEIESKAANLNLVVEAYKKIISEVKVQLENQVHGVHFNITAI CPDGARKPGISGCG
 NVTSNDEVLFNVTVMKTCDIMGGKNYAIKPIGFNETTKVHIHRSCSCQCENHRGLKGQCAEAAPDKC
 PQDDSRCHFDEQFPSETCKPQEDQPVCSGRGVCICGKCLCHKTKLGRVYGQYCEKDDF SCPYLHGDVC
 AGHGECEGGRQCFSGWEGDRCQPSASAQHCVNSKGQVCSGRGTCVGRCECTDPRSIGRLCEHPTCH
 LSCSENWNCLQCLHPHNL SQAALDQCKSSCAVMEQHRMDQTSECLSGPSYLRIFFIIFIVTFLIGLLKVL
 IIRQVILQWNNKIKSSSDYRMSASKDKLILQSVCTRAV TYRREKPEEIKMDISKLNAQEAFCNF

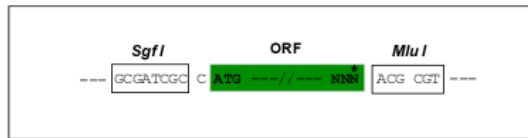
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9013_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



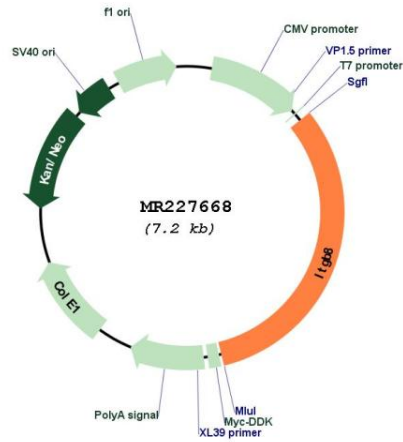
* The last codon before the Stop codon of the ORF

ACCN: NM_177290

ORF Size: 2301 bp

OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_177290.3, NP_796264.2</p>
RefSeq Size:	<p>3096 bp</p>
RefSeq ORF:	<p>2304 bp</p>
Locus ID:	<p>320910</p>
UniProt ID:	<p>Q0VBD0</p>
Cytogenetics:	<p>12 F2</p>
MW:	<p>85 kDa</p>
Gene Summary:	<p>Integrin alpha-V:beta-8 (ITGAV:ITGB8) is a receptor for fibronectin (By similarity). It recognizes the sequence R-G-D in its ligands (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 on the surface of activated regulatory T-cells (Tregs) (PubMed:25127859). Required during vasculogenesis (PubMed:12050137, PubMed:16251442).[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR227668