

Product datasheet for **MG227668**

Itgb8 (NM_177290) Mouse Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Itgb8 (NM_177290) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Itgb8 |
| Synonyms: | 4832412O06Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide
Sequence:

>MG227668 representing NM_177290
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGTGCGGCTCGGCCCTGGCTTTTCTGACTGCTGCACTGCTCTCTGCACAACCTGCCAGCGAGGTCCAG
CCTTGGTTCTTGGGGCAGCCTGGGTATTTTCACTTGTTCTCGGACTGGGCCAAAGTGAACACAATAGATG
TGGCTCTGCAAATGTGGTCTCCTGTGCCAGGTGCCTCCAGCTGGGTCCGGAATGCGGATGGTGTGTTCAA
GAGGATTTTGTTCAGGTGGATCAGGAAGTGAACGTTGTGATACTGTTTCCAGTTTGATAAGCAAAGGCT
GTCCAGTTGATTCAATAGAAATACCTGTCTGTGCATGTTGTAACGTCAAGTGAAGTGAATCAATACCCA
GGTGACACCGGGAGAAGTCTCAGTCCAACCTGCATCCAGGAGCTGAAGCTAATTTTATGTTAAAAGTCCGT
CCTCTGAAGAAATACCCCGTGGATCTTTATTATCTGGTTGATGTGTCAGCATCAATGCACAATAATATAG
AAAAATGAATTCGTTGGAAATGATTTATCTAAAAAAATGGCCCTTTATTCCTGACTTCCGTCTTGG
TTTTGGCTCATATGTGGATAAACTGTCTGCCATACATTAGTATCCACCCGAAAGGATCCACAATCAG
TGCACTGACTACAATTTAGACTGTATGCCTCCCATGGATACATTCATGTGCTGTCTCTGACAGAAAACA
TCACTGAGTTTGA AAAAGCAGTCCACAGACAAAAGATCTCTGAAAACATAGACACCCCTGAAGGAGGTTT
TGATGCCATGCTT CAGGCTGCCGTCTGTGAGAGTCATATTGGATGGCGAAAAGAAGCTAAAAGATTGCTG
CTGGTGATGACAGACCAGACATCACATCTTGCTCTTGACAGCAAATGGCAGGCATAGTGGTGCCGAATG
ACGGAACTGCCATCTCAAAAACAATGTCTACGTCAAATCGACAACCATGGAACATCCGTCATTAGGCCA
ACTTTCTGAAAAGTTAATAGACAACAACATAAATGTCAATTTTGCAGTTCAAGGAAAGCAGTTTCATTGG
TACAAGGACCTTCTGCCCTTTTGCCTGGTGCCATTGCTGGTGAATAGAATCCAAGCTGCAAACTCA
ACAATTTAGTAGTAGAAGCCTACAAGAAGATTATCTCAGAAGTAAAAGTGCAGCTGGA AAACAGGTACA
CGGTGTCCATTTTAAACATCACTGCCATCTGTCCAGATGGGGCCAGAAAGCCAGGCATAAGTGGGTGTGGA
AACGTGACAAGCAATGACGAAGTTCTTTTCAATGTAACCTGTTGTGATGAAAACATGTGATATCATGGGAG
GAAAAAATATGCAATAATCAAGCCTATTGGTTTCAATGAAACCACTAAAGTCCACATACACAGAAGCTG
CAGTTGCCAGTGTGAGAACCACAGAGGACTCAAAGGACAGTGTGCGGAAGCTGCCCCAGACCCCAAGTGT
CCACAGTGTGATGACAGCAGATGTCAATTTGATGAAGACCAGTTTCTTCTGAAACTTGAAGCCACAGG
AGGATCAACCTGTCTGCAGTGGCCGAGGTGTTTGCATCTGTGGGAAATGTTTATGTCACAAAACCAAGCT
AGGAAGAGTGTATGGCCAGTACTGTGAGAAGGATGACTTCTCCTGTCCCTATCTCCATGGGGATGTGTGT
GCTGGGCATGGGGAGTGTGAAGGTGGCAGATGCCAGTGTCTTGTGGCTGGGAAGGAGATCGGTGTCAGT
GCCCATCAGCCTCAGCACAGCACTGTGTCAACTCCAAGGGCCAAGTTTGCAGCGGAGAGGCACCTGCGT
GTGTGGCAGGTGTGAGTGTACTGATCCCAGAAGCATTGGCCGTCTCTGTGAGCACTGCCAACCTGCCAT
CTCTCCTGCAGTGA AAACCTGGAATTGTCTGCAGTGCCTTACCCTCACAATCTGTCTCAGGCTGCCCTTG
ATCAGTGTAAATCCTCCTGTGCTGTCAATGGAACAGCATCGCATGGACCAACATCAGAATGTTTATCTGG
CCCAAGCTATCTGCGAATATTTTTCATCATATTCATAGTCACATCTTGTATCGGGTTGCTTAAAGTTCTT
ATCATTAGACAAGTGATACTACAATGGAATAATAATAAAAATAAAGTCCTCATCAGATTATAGAATGTCTG
CTTCTAAAAGGATAAACTGATTCTGCAAAGTGTGTCACGAGAGCTGTAACCTACCGACGAGAAAAGCC
TGAGGAAATAAAAATGGATATCAGCAAACCTAAATGCTCAGGAGGCCTTCAGGTGCAACTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG227668 representing NM_177290
 Red=Cloning site Green=Tags(s)

MCGSALAFLLAALLSLHNCQRGPALVLGAAWVFSVLVGLGQSEHNRCGSANVVSCARCLQLGPECGWCVQ
 EDFVSGGSGSERCDTVSSLSISKGCPVDSIEYLSVHVVTSSENEINTQVTPGEVSVQLHPGAEANFMLKVR
 PLKKYPVDLYYLVDVSASMHNNIEKLSVGNL SKKMALYSRDFRLGFGSYVDKTVSPYISIHPERIHNQ
 CSDYNLDCMPPHYIHVLSLTENITFEKAVHRQKISGNI DTPEGGF DAMLQAAVCESHIGWRKEAKRLL
 LVMTDQTSHLALDSKLAGIVVPNDGNCHLKNNVYVKSTTMEHPSLGQLSEKLDNNINVIFAVQGKQFHW
 YKDLLPLLPGAIAGEIESKAANLNLVVEAYKKIISEVKVQLENQVHGVHFNITAI CPDGARKPGISGCG
 NVTSNDEVLFNVTVMKTCDIMGKNYAIKPIGFNETTKVHIHRSCSCQCENHRGLKGQCAEAAPDKC
 PQCDSRCHFDEDDQFPSETCKPQEDQPVC SGRGVCICGKCLCHKTKLGRVYGQYCEKDDFSCPYLHGDVC
 AGHGECEGGRQCFC SGWEGDRCQPSASAQHCVNSKGQVCSGRGTCVGRCECTDPRSIGRLCEHCPTCH
 LSCSENWNCLQCLHPHNL SQAALDQCKSSCAVMEQHRMDQTSECLSGPSYLRIFFIIFIVTFLIGLLKVL
 IIRQVILQWNNKIKSSSDYRMSASKDKLILQSVCTRAV TYRREKPEEIKMDISKLNAQEAFCNF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

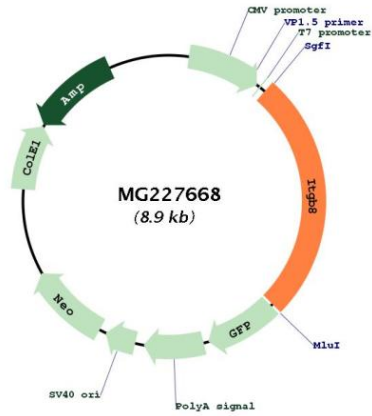


ACCN: NM_177290

ORF Size: 2301 bp

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| 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> |
| 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 MG227668