

Product datasheet for **MR210654**

Itgb6 (NM_001159564) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR210654 representing NM_001159564
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGATTGAGCTGGTCTGCCTGTTTCTGCTACTTCTAGGAAGGAATGATCACGTCCAAGTGGCTGTG
 CCTGGGGTGGTGCAGAAAGCTGCTCAGACTGCCTGCTCACAGGACCCACTGCGCCTGGTCTCCAGGA
 GAATTTACCCACCTGTCTGGAGCTGGCGAGAGGTGCGACACCCAGCGAATCTTTAGCCAAAGGATGT
 CAACTACCCTTCAATTGAAAACCTGTCTCCCGCATAGAAGTCCTTCAAAATAAGCCTCTCAGCGTGGGCC
 GACAGAAGAACAGTTCTGACATTGTTTCTGATTGCTCCTCAAAGCTTGGTTCTTAAATTGAGACCAGGGCG
 TGAGCAGACTCTGCAAGTGCAGGTCCGCCAACTGAAGATTACCCAGTAGATCTGTATTACCTCATGGAC
 CTCTCCGCTCTATGGATGACGACCTCAACACCATCAAAGAGCTTGGCTCCCGGCTGGCCAAAGAGATGT
 CCAAACCTAACAGCAACTTTAGACTGGGCTTTGGCTCTTTTGTGAAAAGCCGTTTCTCCTTTTATGAA
 AACACCCAGAGGAAATCACCAACCTTGCAGTAGTATCCCCTATTTCTGCTTACCTACATTTGGATTC
 AAGCACATTTTGGCATTAACTGATGATGCGGAGAGATTCAATGAAATTGTGAGGAAACAGAAAGATTCTG
 CTAATATTGACACACCTGAAGGTGGATTTGATGCAATCATGCAGGCTGCTGTGTGTAAGGAAAAGATTGG
 CTGGCGCAATGACTCGCTCCACCTCCTGGTTTTTGTGAGTGATGCCGATTCTCATTTTGGAAATGGACAGC
 AAGCTGGCAGGCATTGTCAATCCAATGATGGACTCTGTCACTTGGACCACAGGAATGAATATTCATGT
 CAACTGTCTTGGAAATATCCAATATCGGCCAACTCATTGATAAAGTGGTACAAAACACCTGTACTGAT
 CTTTGCAGTACCCAAGAACAAGTCCATCTGTATGAGAACTATGCAAACTCATTCTGGAGCAACCGTG
 GGACTGCTTCAGAAGGATTCTGGGAACATCCTTACAGTGTATCTCCGTTATGAAGAATGCGGCTGTG
 AGGTGGAACCTGGAAGTGTAGGGGACACAGAAGGACTCAACCTGTCTTTACAGCTCTCTGTAACAATGG
 TGTCTCTTCCACACCAAAAAGAAATGCTCCACATGAAAGTTGGAGACACAGCATCCTTCAATGTGACT
 GTGAGCGTATCCAAGTGTGAGAAAAGAAGCAGGAACCTCATCATAAAGCCAGTGGGGCTGGGGGACACCC
 TAGAAATACTCGTCAGTGCAGAATGTGACTGCGACTGCCAGAGAGAAATAGAAACTAACAGCTCTAAGTG
 TCACAATGGGAATGGCTCCTTCCAGTGTGGGTGTGTACCTGCAACCCCGGCCACATGGGTCTCACTGC
 GAGTGTGGTGAGGATATGGTGTGACAGGATTCCTGCAAGGAGTCCCGGGTACCCTTATGCAGTGGAA
 GGGGTGACTGCTATTGTGGCAGTGCATCTGCCACTTATCGCCGTACGGAAGCATCTACGGACCTTACTG
 CCAGTGTGACAACCTTCTCTGTCTGAGACACAAAGGCCTTCTCTGTGGAGATAACGGTACTGTGACTGT
 GCGGAGTGTGTGCCGGATGGCTGGACAGGTGAATACTGTAAGTGTACAACCAACAGGGACTCGTGTA
 CATCTGAGGATGGAGTGTGTGCAAGTGGAGTGGGGACTGTGTCTGTGGCAAGTGTGTCTGCAGAAACCC
 TGGAGCCTCAGGACCCACCTGTGAACGCTGTCTTACCTGTGGCGACCCCTGTAACCTTAAACGGAGTTGC
 ATCGAGTGTACCTGTCTGCAGATGGCCAGGCCAAGAAGAGTGTGCTGACAAGTGTAAAGCCATTGGTG
 CCACCATCAGTGGGAAGATTTTCAAAGGATACTTCTGTCTCCTGCTCTCTACAAGGAGAAAATGAATG
 CCTTATTACATTCCTAATAACTACGATAATGAAGGAAAACCATCATTACAACATCAATGAAAAAGAC
 TGCCCCAAACCTCAAACATCCCATGATCATGTTGGGGTGTCACTGGCGATCCTGCTCATCGGAGTTG
 TGCTACTGTGATTTGGAAGCTGCTGGTATCATTTTATGACCGGAAGGAAGTTGCTAAATTTGAAGCAGA
 ACGCTCTAAGGCCAAGTGGCAAACGGGAACCAATCCTCTGTACCGAGGTTCCACCAGCACTTTAAGAAC
 GTGACCTACAAGCACAGGGAAGCACAAGCAGGCCTTTCCTCAGATGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210654 representing NM_001159564
Red=Cloning site Green=Tags(s)

MGIELVCLFLLLLGRNDHVQGGCAWGAESCSDCLLTGPHCAWCSQENFTHLSGAGERCDTPANLLAKGC
QLPFIENPVSRIEVLQNKPLSVGRQKNSSDIVQIAPQSLVLKLRPGREQTLQVQVRQTEDYPVDLYYLM
LSASMDDLNTIKELGSRLAKEMSKLTSNFRLGFSGFVEKPVSPFMKTTPEEITNPCSSIPYFCLPTFGF
KHILPLTDDAERFNEIVRKQKISANIDTPEGGFDAIMQAAVCKEKIGWRNDSLHLLVFDADSHFGMDS
KLAGIVIPNDGLCHLDRNEYSMTVLEYPTIGQLIDKLVQNNVLLIFAVTQEQVHLYENYAKLIPGATV
GLLQKDSGNILQLIISAYEELRSEVELEVLGDTEGLNLSFTALCNNGVLFPHQKCKSHMKVGDASFNVT
VSVSNCEKRSRNLIIKPVGLGDTLEILVSAECDQREIETNSSKCHNGNGSFQCGVCTCNPGHMGPHC
ECGEDMVSTDSCKESPGHPSCSGRGDCYCGQCICHLSPYGSIIYGPYCQDNFSCLRHKGLLCGDNGDCDC
GECVCRDGTGEYCNCTNRDCTSEDGVLCSGRGDCVCGKCVCRNPGASGPTCERCPTCGDPCNSKRSC
IECYLSADGQAQEECADKCKAIGATISEEDFSKDTSVSCSLQGENECLITFLITTDNEGKTIHNI
NEKD
CPKPPNIPMIMLVSLAILLIGVLLCIWKLLVSFHDRKEVAKFEAERSKAKWQTGTNPLYRGSTSTFKN
VTYKHREKHKAGLSSDG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



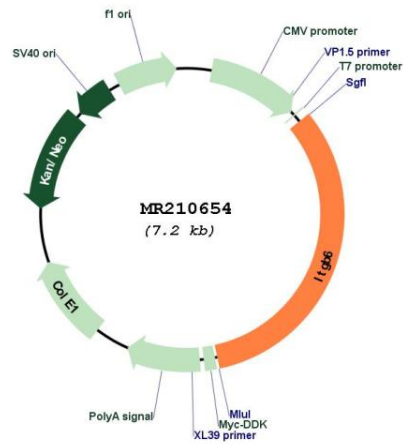
* The last codon before the Stop codon of the ORF

ACCN: NM_001159564

ORF Size: 2361 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 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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<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:	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
MW:	86.5 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for MR210654