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Product datasheet for MR227017

Itgb6 (NM_021359) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itgb6 (NM_021359) 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:

>MR227017 representing NM_021359
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGATTGAGCTGGTCTGCCTGTTTCTGCTACTTCTAGGAAGGAATGATCACGTCCAAGGTGGCTGTG
CCTGGGGTGGTGCAGAAAGCTGCTCAGACTGCCTGCTCACAGGACCCCACTGCGCCTGGTGCTCCCAGGA
GAATTTCACCCACCTGTCTGGAGCTGGCGAGAGGTGCGACACCCCAGCGAATCTTTTAGCCAAAGGATGT
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GACAGAAGAACAGTTCTGACATTGTTCAGATTGCTCCTCAAAGCTTGGTTCTTAAATTGAGACCAGGGCG
TGAGCAGACTCTGCAAGTGCAGGTCCGCCAAACTGAAGATTACCCAGTAGATCTGTATTACCTCATGGAC
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TCACAATGGGAATGGCTCCTTCCAGTGTGGGGTGTGTACCTGCAACCCCGGCCACATGGGTCCTCACTGC
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GTGACCTACAAGCACAGGGAGAAGCACAAAGCAGGCCTTTCCTCAGATGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227017 representing NM_021359
Red=Cloning site Green=Tags(s)

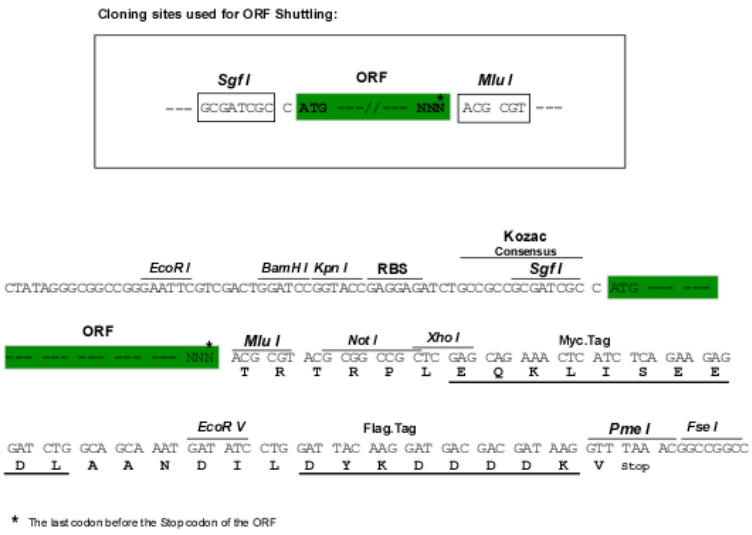
MGIELVCLFLLLLGRNDHVQGGCAWGGAESCSDCLLTGPHCAWCSQENFTHLSGAGERCDTPANLLAKGC
QLPFIENPVSRIEVLQNKPLSVGRQKNSSDIVQIAPQSLVLKLRPGREQTLQVQVRQTEDYPVDLYYLMD
LSASMDDDLNTIKELGSRLAKEMSKLTSNFRLGFGSFVEKPVSPFMKTTPEEITNPCSSIPYFCLPTFGF
KHILPLTDDAERFNEIVRKQKISANIDTPEGGFDAIMQAAVCKEKIGWRNDSLHLLVFVSDADSHFGMDS
KLAGIVIPNDGLCHLDHRNEYSMSTVLEYPTIGQLIDKLVQNNVLLIFAVTQEQVHLYENYAKLIPGATV
GLLQKDSGNILQLIISAYEELRSEVELEVLGDTEGLNLSFTALCNNGVLFPHQKKCSHMKVGDTASFNVT
VSVSNCEKRSRNLIIKPVGLGDTLEILVSAECDCDCQREIETNSSKCHNGNGSFQCGVCTCNPGHMGPHC
ECGEDMVSTDSCKESPGHPSCSGRGDCYCGQCICHLSPYGSIYGPYCQCDNFSCLRHKGLLCGDNGDCDC
GECVCRDGWTGEYCNCTTNRDSCTSEDGVLCSGRGDCVCGKCVCRNPGASGPTCERCPTCGDPCNSKRSC
IECYLSADGQAQEECADKCKAIGATISEEDFSKDTSVSCSLQGENECLITFLITTDNEGKTIIHNINEKD
CPKPPNIPMIMLGVSLAILLIGVVLLCIWKLLVSFHDRKEVAKFEAERSKAKWQTGTNPLYRGSTSTFKN
VTYKHREKHKAGLSSDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9031_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_021359
ORF Size:	2361 bp
OTI Disclaimer:	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: 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_021359.3, NP_067334.1

RefSeq Size: 4788 bp

RefSeq ORF: 2364 bp

Locus ID: 16420

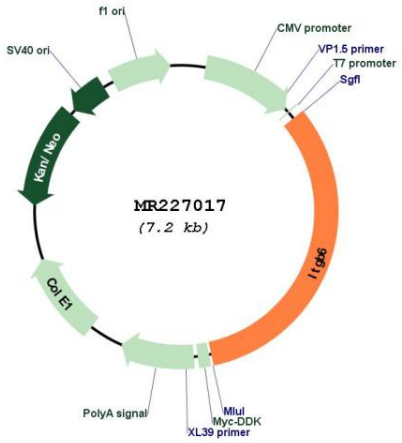
UniProt ID: Q9Z0T9

Cytogenetics: 2 34.81 cM

MW: 86.5 kDa

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]

Product images:



Circular map for MR227017