

Product datasheet for MR227156

Itgb4 (NM_133663) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itgb4 (NM_133663) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itgb4
Synonyms:	AA407042; C230078O20; CD104
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227156 representing NM_133663 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGGCCCTGTTGCAGCCCATGGGTGAAGCTGCTGCTGCTGGCAGCAATGCTGAGTGCCAGCCTCC
CTGGAGACCTGGCCAACCGCTGCAAGAAGGCTCAGGTGAAGAGCTGTACCGAGTGCATCCGGGTGGACAA
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ACCTGCAACTGCTCCACCGGCTCTCTGAGTGACACACAGCCCTGCCTGCCTGAGGGTGAGGACAAACCGT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence:

>MR227156 representing NM_133663
 Red=Cloning site Green=Tags(s)

MAGPCCSPWVLLLLAAML SASLPGDLANRCKKAQVKSCTECIRVDKSCAYCTDELFKERRCNTQAELLA
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 PGETWKELVKLELQEVDSLLRGRQVRRFQVQLSNPKFGARLQGPSTTTVILGEHDETDRSLINQTLSS
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 PTLKVSWEQPCDRMLLGYSVYQLLNGGEMHRLNIPNPGQTSVVVEDLLPNHSYVFRVRAQSQEGWGR
 EREGVITIESQVHPQSPLCPLPGSAFTLSTPSAPGLVFTALSPDSLQLSWERPRRPNGLILGYLVTCEM
 AQGGAPARTFRVDGDNPE SRLTVPGLSENVYKFKVQARTTEGFGPEREGIITIESQVGGPFPQLGSHSG
 LFQNPVQSEFSSVTSTHSTTTEPFLMDGLTLGTQRLEAGGSLTRHVTQEFVTRTLTASGSLSTHMDQQFF
 QT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9041_e12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_133663

ORF Size: 5256 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_133663.2](#), [NP_598424.2](#)

RefSeq Size: 6010 bp

RefSeq ORF: 5259 bp

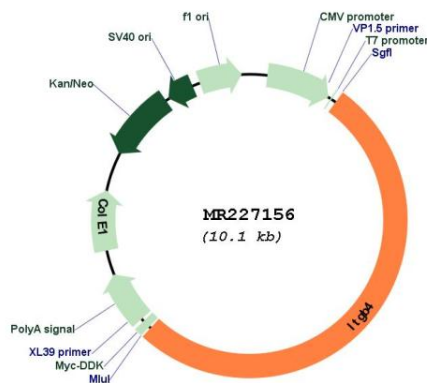
Locus ID: 192897

Cytogenetics: 11 80.91 cM

MW: 195.1 kDa

Gene Summary: Integrins are heterodimers comprised of alpha and beta subunits, that are noncovalently associated transmembrane glycoprotein receptors. Different combinations of alpha and beta polypeptides form complexes that vary in their ligand-binding specificities. Integrins mediate cell-matrix or cell-cell adhesion, and transduced signals that regulate gene expression and cell growth. This gene encodes the integrin beta 4 subunit, a receptor for the laminins. This subunit tends to associate with alpha 6 subunit and is likely to play a pivotal role in the biology of invasive carcinoma. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR227156