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Product datasheet for RR210305

Itgb6 (NM_001004263) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itgb6 (NM_001004263) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itgb6
Synonyms:	MGC94023
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR210305 representing NM_001004263
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGATTGAGCTGGTCTGCCTGTTCCTGCTACTTCTAGGAAGGAATGATCACGTCCAAGGTGGCTGTG
CCTGGAGTGGTGCAGAAACCTGCTCAGACTGCCTGCTCACAGGACCTCACTGCGCCTGGTGCTCCCAGGA
GAATTTCACCCACCTGTCCGGAGCTGGCGAAAGGTGCGACACCCCCGAGAATCTTTTAGCCAAAGGATGT
CAGTTACCCTTCATCGAAAACCCTGTCTCCCAAGTAGAAATACTTCAAAATAAGCCTCTCAGCGTAGGTC
GACAGAAAAACAGTTCTGACATTGTTCAGATTGCTCCTCAAAGCTTGGTTCTTAAGTTGAGACCAGGGGG
TGAGCAGACTCTGCAAGTGCAGGTCCGCCAGACGGAAGATTACCCAGTAGATCTGTATTACCTCATGGAC
CTCTCGGCCTCCATGGATGATGACCTCAACACAATCAAAGAGCTTGGCTCCCGGCTGGCCAAAGAGATGT
CTAAATTAACCAGCAACTTTAGACTGGGCTTTGGCTCTTTTGTGGAAAAGCCCGTTTCTCCTTTTATGAA
AACAACACCAGAGGAAATCACCAACCCTTGCAGTAGTATCCCCTATTTCTGCTTACCTACATTTGGATTC
AAGCACATTTTGCCATTGACTGATGATGCTGAGAGATTCAATGAAATTGTGAGGAAACAGAAGATTTCCG
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CTGGCGCAACGACTCGCTCCACCTCCTGGTTTTTGTGAGTGATGCTGATTCTCATTTTGGAATGGACAGC
AAGCTGGCAGGCATTGTGATTCCCAACGATGGGCTCTGTCACTTGGACAACAGGAATGAATACTCCATGT
CAACTGTCTTGGAATATCCAACGATCGGCCAACTCATTGATAAACTGGTACAAAACAACGTGCTACTGAT
CTTTGCGGTCACCCAAGAACAAGTCCATCTCTATGAGAATTATGCGAAACTCATCCCTGGAGCGACTGTG
GGACTGCTTCAGAAGGATTCTGGGAACATTCTTCAGCTGATCATCTCCGCTTACGAAGAACTGCGGTCTG
AGGTGGAACTAGAAGTATTAGGAGACACAGAAGGACTCAACCTGTCTTTCACAGCTCTCTGTAGCAATGG
CATCCTCTTCCCACACCAAAAGAAGTGTTCCCACATGAAAGTCGGAGATACAGCATCCTTCAACGTGTCT
GTGAGCATAACAAACTGTGAGAAAAGAAGCAGGAAACTTATCATCAAGCCTGTGGGACTTGGGGACACCC
TGGAAATACTCGTCAGCGCAGAATGTGACTGCGACTGCCAGAGAGAAGTAGAAGCCAACAGTTCTAAGTG
CCACCACGGGAATGGCTCCTTCCAGTGTGGGGTGTGTGCCTGCAACCCTGGCCACATGGGTCCTCGCTGC
GAGTGCGGCGAGGACATGGTGAGCACGGATTCCTGCAAGGAGTCCCCAGGTCACCCCTCCTGCAGCGGAA
GGGGTGACTGCTATTGTGGGCAGTGTGTCTGCCACTTGTCTCCCTATGGAAGCATCTATGGACCTTACTG
CCAGTGTGACAACTTCTCCTGTCTGAGACACAAAGGCCTGCTCTGTGGAGATAATGGTGACTGTGACTGT
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CATCGGAAGATGGCGTGCTGTGCAGCGGGCGTGGGGACTGTGTCTGCGGCAAGTGTGTCTGCAGAAACCC
TGGAGCCTCGGGACCCACCTGTGAACGCTGCCCTACCTGTGGAGACCCCTGTAACTCGAGACGGAGCTGC
ATCGAGTGCTACCTGTCTGCAGATGGCCAGGCCCAAGAAGAGTGCGAGGACAAGTGCAAAGCCACCGGTG
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TGCTACTGTGCATTTGGAAGCTGCTGGTATCCTTTCACGACCGGAAAGAAGTTGCTAAATTTGAAGCAGA
ACGATCAAAGGCCAAGTGGCAAACGGGAACCAATCCGCTGTACCGAGGCTCCACCAGCACTTTTAAGAAC
GTGACCTACAAACACAGGGAGAAGCACAAAGTGGGCCTTTCTTCAGATGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210305 representing NM_001004263
Red=Cloning site Green=Tags(s)

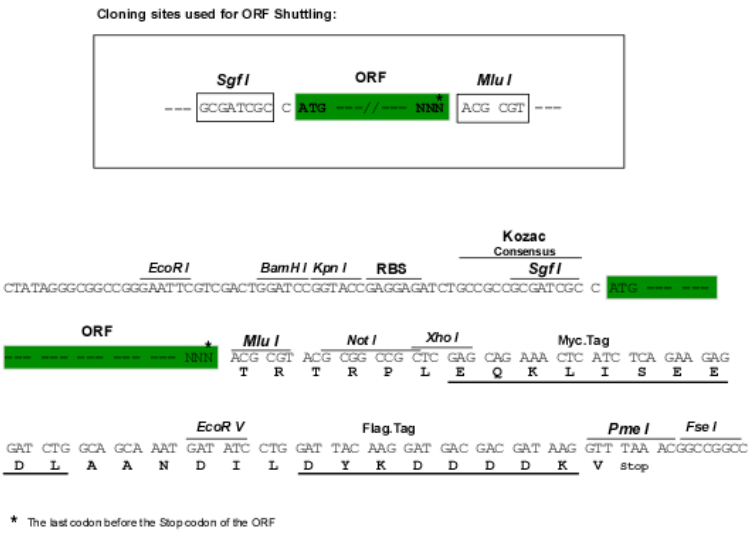
MGIELVCLFLLLLGRNDHVQGGCAWSGAETCSDCLLTGPHCAWCSQENFTHLSGAGERCDTPENLLAKGC
QLPFIENPVSQVEILQNKPLSVGRQKNSSDIVQIAPQSLVLKLRPGGEQTLQVQVRQTEDYPVDLYYLMD
LSASMDDDLNTIKELGSRLAKEMSKLTSNFRLGFGSFVEKPVSPFMKTTPEEITNPCSSIPYFCLPTFGF
KHILPLTDDAERFNEIVRKQKISANIDTPEGGFDAIMQAAVCKEKIGWRNDSLHLLVFVSDADSHFGMDS
KLAGIVIPNDGLCHLDNRNEYSMSTVLEYPTIGQLIDKLVQNNVLLIFAVTQEQVHLYENYAKLIPGATV
GLLQKDSGNILQLIISAYEELRSEVELEVLGDTEGLNLSFTALCSNGILFPHQKKCSHMKVGDTASFNVS
VSITNCEKRSRKLIIKPVGLGDTLEILVSAECDCDCQREVEANSSKCHHGNGSFQCGVCACNPGHMGPRC
ECGEDMVSTDSCKESPGHPSCSGRGDCYCGQCVCHLSPYGSIYGPYCQCDNFSCLRHKGLLCGDNGDCDC
GECVCRDGWTGEYCNCTTSRDACASEDGVLCSGRGDCVCGKCVCRNPGASGPTCERCPTCGDPCNSRRSC
IECYLSADGQAQEECEDKCKATGATISEEEFSKDTSVPCSLQGENECLITFLITADNEGKTIIHNISEKD
CPKPPNIPMIMLGVSLAILLIGVVLLCIWKLLVSFHDRKEVAKFEAERSKAKWQTGTNPLYRGSTSTFKN
VTYKHREKHKVGLSSDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3818_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001004263

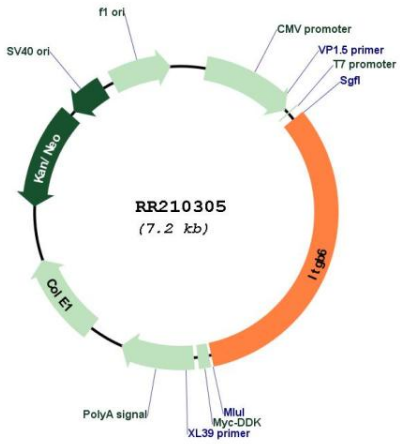
ORF Size: 2361 bp

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:	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_001004263.1, NP_001004263.1
RefSeq Size:	2818 bp
RefSeq ORF:	2364 bp
Locus ID:	311061
UniProt ID:	Q6AYF4
Cytogenetics:	3q21
MW:	86 kDa
Gene Summary:	mouse homolog is involved in TGF-beta activation and regulation of macrophage metalloproteinase Mmp12 expression [RGD, Feb 2006]

Product images:



Circular map for RR210305