

Product datasheet for **MR222888**

Itgb5 (NM_010580) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itgb5 (NM_010580) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itgb5
Synonyms:	AA475909; AI874634; beta-5; beta5; ESTM23; [b]-5; [b]5; [b]5A; [b]5B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR222888 representing NM_010580
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGGGTGCCCGGACCCCTACGCCTGTCTGCTCGGGCTCTGCGCGCTCGTTCGCGCCTCGCAG
 GGCTCAACATATGCACTAGTGGAAGTGCCACCTCGTGTGAAGAATGCCTGTTGATCCACCCAAAATGTGC
 CTGGTGTCCAAAGAGTACTTTGGCAATCCACGGTCCATCACCTCTCGGTGTGACCTGAAGGCAAAACCTC
 ATCCGGAATGGCTGTGAAGGTGAGATTGAGAGTCCAGCCAGCAGCACCCACGTCCTCCGGAACCTACCTC
 TCAGCAGCAAGGGTTCAGTGCCACGGGCTCTGACGTCATCCAGATGACGCCGAGGAGATTGCAGTGAG
 CCTCCGGCCAGGCGAGCAGACTACGTTCCAGCTGCAGGTGCGCCAGGTGGAGGACTACCCTGTAGACCTG
 TACTACCTGATGGACCTCCTCTCCATGAAGGATGACTTGGAGAACATCCGGAGCCTGGGCACCAAGC
 TTGCCGAGGAAAAGGGAAGCTCACTAGTAACTCCGCTTAGGTTTCGGGTCCTTTGTTGACAAGGACAT
 CTCTCCTTTCTCCTACACGGCACCGAGATACCAGACCAATCCGTGATTGGTTACAAGTTATCCCAAC
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 TGAGGAAGCAGAGGGTGTCCCGAAACCGAGATGCCCCGAGGGGGGGTTTGATGCGGTCTCCAGGCTGC
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 AAGCCAATGAGTACACAGCCTCTAACAGATGGACTATCCATCGCTTGCCTTGTGGGGAGAAGCTGGC
 AGAGAACAATATCAACCTCATTTTTGCTGTGACGAAGAACCCTATATGCTCTACAAGAATTTACAGCC
 CTGATACCTGGAACCACTGTGGAGATTTTGCATGGAGATTCAAAAATATTATCAACTGATTATCAATG
 CGTACAGTAGCATCCGGGCTAAAGTGGAGCTGTCACTGTGGGATCAGCCAGAAGACCTTAATCTCTTCTT
 CACTGCCACCTGCCAAGATGGCATATCTTACCCTGGTCAGAGGAAGTGTGAGGGTCTGAAGATTGGGGAC
 ACGGCATCCTTTGAAGTGTCCGTGGAGGCTCGGAGCTGCCCGGAGACAAGCAGCACAGCTTTTACCT
 TGAGGCCCGTGGGCTTCCGGGACAGTCTGCAGGTGGAAGTCGCCTACAATTGCACATGCGGCTGTAGCAC
 GGGGCTGGAGCCCAACAGTGCCAGATGCAGTGGGAATGGAACATACACCTGTGGGCTGTGCGAGTGTGAC
 CCCGGCTACCTGGGCACTAGGTGCGAGTGCCAGGAGGGGAGAACCAGAGCGGGTACCAGAACCTGTGCC
 GGGAGGCAGAGGGCAAGCCTCTGTGCAGCGGGCTGGAGAGTGTAGCTGCAACCAGTGTCTCTGCTCGA
 GAGTGAGTTCGGGAGGATCTACGGACCTTCTGCGAGTGTGACAGCTTTTCTGTGCCAGAAACAAGGGC
 GTCCTATGCTCAGGCCATGGAGAGTGTCACTGTGGAGAATGCAAATGCCACGCAGTTACATTGGGGACA
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 ACCAGACCTGCCACCACAGTGCAAAGATGAGGTGATCACGTGGGTAGACACCATCGTCAAAGATGACCA
 GGAGGCTGTGCTTTGCTTCTACAAAAGTCTAAGGACTGCGTTATGATGTTTACAGTACACAGAACTGCC
 AATGGGAGGTCCAACCTTACGGTCTCCGGGAGCCAGAATGTGGAAGTGGCCCAATGCCATGACCATCC
 TGCTGGCTGTGGTTGGCAGCATCCTCCTGATTGGGATGGCACTCCTGGCCATCTGGAAGCTGCTCGTCAC
 CATCCACGACCCGAGAGTTTGGCAAGTTCAAAGCCTCAAACCCCTGTACAGAAAGCCCATCTCCAC
 ACACACTGTCGATTTTCGCTTCAACAAGTTCACAATAATCCTACAATGGCTCAGTGGACTGAGGCTCCTGG
 ATGGCTGGAGGGGACTAAGGATGAAGACTCTGGCGTGCCTTGGACTTCTGGACCATTTGCTCACGC

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222888 representing NM_010580
Red=Cloning site Green=Tags(s)

MPRVPATLYACLLGLCALVPRLAGLNICTSGSATSCEECLLIHPKCAWCSKEYFGNPRSITSRCDLKANL
IRNGCEGEIESPASSTHVLRLNPLSSKGSSATGSDVIQMPQEIAVSLRPGEQTTFLQVRQVEDYPVDL
YYLMDLSLSMKDDLENIRSLGTKLAEEMRKLTSNFRLGFGSFVDKDISPF SYTAPRYQTNPCIGYKLFN
CVPSFGFRHLLPLTDRVDSFNEEVRKQVSRNRDAPEGGFDAVLQAAVCKEKIGWRKDALHLLVFTDDV
PHIALDGKLGGLVQPHDQCHLNEANEYASNQMDYPSLALLGEKLAENNINLIFAVTKNHMYLYKNFTA
LIPGTTVEILHGDSKNIIQLIINAYSSIRAKVELSVWDQPEDLNLFFATCQDGISYPGQRKCEGLKIGD
TASFEVSEARSCPRQAAQSFTLRPVGFRDSLQVEVAYNCTCGCSTGLEPNSARCSNGTYTCGLCECD
PGYLGTRCECQEGENQSGYQNLCREAEGKPLCSGRGECSCNQCSCFESEFGRIYGPFCEDSFSCARNKG
VLCSGHGECHECKCHAGYIGDNCNCSTDVSTCRAKDGQICSDRGRCVCGQCQCTEPGAFGETCEKCPT
CPDACSSKRDCVECLLLHQGKPDNQTCHHQCKDEVITWVDTIVKDDQEAVLCFYKTAKDCVMMFSYTELP
NGRSNLTVLREPECGSAPNAMTILLAVVGSILLIGMALLAIWKLLVTIHDRREFAKFQSLKPPVQKAHLH
THCRFRLQQVQILQWLSGLRLLDGWRGKDEDSGVPWTSWTICSR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_h07.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_010580

ORF Size: 2448 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_010580.2](#), [NP_034710.2](#)

RefSeq Size: 3275 bp

RefSeq ORF: 2451 bp

Locus ID: 16419

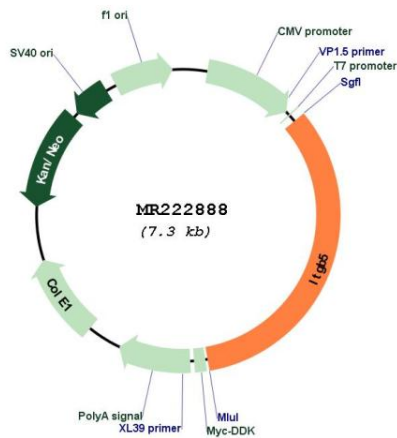
UniProt ID: [O70309](#)

Cytogenetics: 16 B3

MW: 90.5 kDa

Gene Summary: Integrin alpha-V/beta-5 (ITGAV:ITGB5) is a receptor for fibronectin. It recognizes the sequence R-G-D in its ligand.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222888