

Product datasheet for **RR200890**

Itgb2 (NM_001037780) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itgb2 (NM_001037780) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itgb2
Synonyms:	Cd18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR200890 representing NM_001037780
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGGCCACACACTGCTACTCATCTAGCTGGACTACTTCTCTGGGATCTGCCCTGTCCGAGG
 AATGCACCAAGTACAAAGTCAGCAACTGCCGGACTGTATCCAGTCGGGGCTGGCTGCTCGTGGTGCCA
 GAAGCTGAACTTCACCGACCAGGGGAGCCTGACTCCTTGCGCTGTGACACGCGGCACAGCTGCTCCTC
 AAGGGTTGCCAGCCGATGATATAATGGACCCCAAGAGCTTTGCTGATCTCCACCCCAATATCAGGTGC
 AACGGAGTCAACTGTCTCCAAAAAGTGACCCCTAACTTGCAGCCAGGGCAGGCTGCTGCATTCAATGT
 GACTTTCCGACGGGCCAAGGGCTACCCATTGATCTGTACTACCTCATGGACCTCTCTACTCTATGCTC
 GATGACCTGAACAATGTCAAGAAGTTGGTGGTGTATTGCTGCAGGCCCTCAACGAGATCACAGAGTCCG
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 GAGGAACCATGCCCAACAAGGAGAAAGCCTGCCAGCCTCCGTTTGCCTTCGCCACGTGCTCAAGCTA
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 AGGGCGGGCTGGATGCCATAATGCAAGTGGCTGCCTGTCCGGAGGAAATTGGCTGGCGCAATGTCACGAG
 GCTGCTGGTGTGGCCACAGACGACGGCTTCCACTTTGCCGGTGTGGGAACTGGGTGCCATCCTGACC
 CCCAACGATGGCCGCTGCCACCTGGAGGATAACATGTACAAGAGGAGCAATGAGTTCGACTACCCGTCAG
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 GAAAACCTATGAGAACTGACAGAGATTATCCCAAGTCAGCGGTGGCGAGCTGTCTGACGATTCCAGT
 AACGTAGTCCAGCTTATCAAGAAAGCCTACTACAACTCTCTCTAGAGTCTTCTGGACCACACCACCA
 TCCCGGACACCCTGAAAGTCACCTATGACTCCTTCTGTAATAACAGAGTATCGAGTATAGGCAAAATCCCG
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 CAGGAGCTGGAGGGAACTGCCGAAGGACAATAGTTCATTGTGTGCTCGGGCTGGGGGACTGCATCT
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 CAACTTCAACTGTGAGAGATATGATGGCCAAGTCTGCGGTGCCATAAGAGAGGCTCCTGCTCCTGTGGC
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 TGCTGAAATTTGATAAGGGCCCTTTCAGAAGAATTGTAGTGTTCAGTGTGCCAATGTGACGCTGCAGA
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 GCAGAAGGACGGAAACGCTTACAACATCCATGTGGACGACGATCGAGAGTGTGTGAAAGGCCCAACGTG
 GCTGCCATCATAGGGGCACTGTGGCCGGCTTGTACTGATTGGTGTCTCTCTCTGGTCATCTGGAAGG
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 CAACGACAACCCCTCTTCAAGAGCGCCACGACAACGGTCATGAACCCTAAGTTTGTGAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200890 representing NM_001037780
 Red=Cloning site Green=Tags(s)

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MLGPHTLLLILAGLLFLGSALSEECTKYKVSNCRDCIQSGPGCSWCQKLNFTGPGEPDSLRCDDTRAQLLL
KGCPADDIMDPKSFADLHPQYQVQRSQSLSPQKVTNLNLRPGQAAAFNVTFRRAKGYPIDLYYLMDLSYSML
DDLNNVKKLGGDLLQALNEITESGRIGFGSFVDKTVLPFVNTHEKLRNCPNKEKACPPFAFRHVLKL
TDNSNQFQTEVQKQLISGNLDAPEGGLDAIMQVAACPEEIGWRNVTRLLVFATDDGFHFAGDGKLGAILT
PNDGRCHLEDNMYKRSNEFDYPSVQGLAHKLSSENIQPIFAVTKKMKTYEKLTEIIPKSAVGELSDSS
NVVQLIKKAYYKLSRVFLDHTTIPDTLKVTYDSFCNNRVSSIGKSRGDCDGVQINNPVTFQVKVTASEC
IQEQSFVIRALGFTDTVTYVQVHPQCECQCRDQSRMRNLGGKGMVECGICRCESGYIGKNCECQTQGRSS
QELEGNCRKDSSIVCSGLGDCICGQCVCHTSDIPNKVIFGQYCECDNFNCERYDQVCGGLKRGSCSCG
QCNCKEGFEFSACQCRSTTGCLNARLVECSGRGRCQCNRCICEKGYQPPLCEECPCPLPCSTYVFAE
CLKFDKGFQKNCVQCANVTLQTVPFKKKPKERDSEGWITYTLQQKGNAYNIHVDDDRECVKGNPV
AAIIGGTVAGVVLIGVLLLVIWKALTHLTDLNEYRRFEKEKLSQWNNNDNPLFKSATTTVMNPKFAES
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001037780

ORF Size: 2304 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_001037780.2](#), [NP_001032869.2](#)

RefSeq Size: 3161 bp

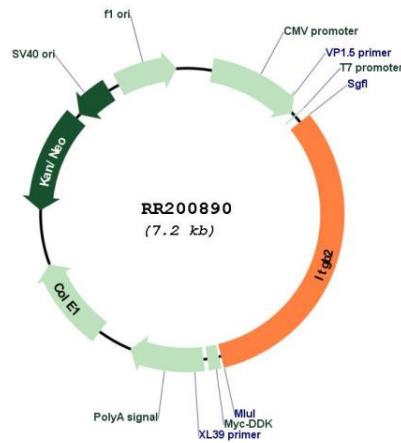
RefSeq ORF: 2307 bp

Locus ID: 309684

Cytogenetics: 20p12

MW: 84.8 kDa

Product images:



Circular map for RR200890