

## Product datasheet for **RR210887**

### Itgb3bp (NM\_001013213) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Itgb3bp (NM\_001013213) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Itgb3bp  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR210887 representing NM\_001013213  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGCCAGTTAAAAGATCACTGAACTGGACGATCAGTTTGAAGAAAATTCATTTGGTCCTTCAAAAATCA  
 TGAGGAAGAAAAGTATTACAGCTTTTTCTCCAACACTGGAACCTATCAATTGAGCCATTTTCCTCTCC  
 CAGAACCCTCAAAGAACAAGAGCACAGAGACGGACCATCAAATGGAACAAGAAAATGGAGTGTCTTGAGC  
 TCACCTGCAAGACAGGACTCCACAGTGAAAGGCAGTGATGGATTCATGATGTTGCTATCTAAAATTGAGA  
 GATCATCGGAGAAAACCATGGAGATAATGAAAAATTTAAGTAGTCTACAGGCTTTGGAGGCAACAGACA  
 ACTTGAAGATCTCCTTGGTGTTCCTAGTACCATGCTCCTTAAAAAGTGAAGCAAGAAAACCAAGAG  
 CTAATGACAAAAGTAATGAAACAAAAGCTATTTGAAAAGAAAATTCAGAATTCCTCCAAAGAACATC  
 ATCCTAACAGCTTTGAATTCCTTAAAGCCATTTGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR210887 representing NM\_001013213  
Red=Cloning site Green=Tags(s)

MPVKRSLKLDQFEENSFGPSKIMRKKSITAFSPTTGTQYQLSPFSSPRTPKQEHRDGPNSGTRKWSVLS  
 SPARQDSTVKGSDGFMLLSKIERSSSEKTEIMKNLSSLQALEGNRQLEDLLGVSLVPCSLKSEAKKTK  
 LMTKVMKQKLFKKNRIPPKEHHPNSFEFLKAILN

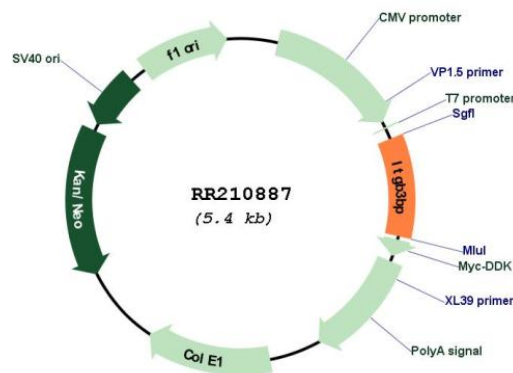
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



[View online »](#)

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001013213

**ORF Size:** 528 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001013213.1, NP_001013231.1</u>
<b>RefSeq Size:</b>	1130 bp
<b>RefSeq ORF:</b>	531 bp
<b>Locus ID:</b>	362548
<b>UniProt ID:</b>	<u>Q5U1Z7</u>
<b>Cytogenetics:</b>	5q33
<b>MW:</b>	19.9 kDa
<b>Gene Summary:</b>	Transcription coregulator that can have both coactivator and corepressor functions. Involved in the coactivation of nuclear receptors for retinoid X (RXRs) and thyroid hormone (TRs) in a ligand-dependent fashion. In contrast, it does not coactivate nuclear receptors for retinoic acid, vitamin D, progesterone receptor, nor glucocorticoid. Acts as a coactivator for estrogen receptor alpha. Acts as a transcriptional corepressor via its interaction with the NFKB1 NF-kappa-B subunit, possibly by interfering with the transactivation domain of NFKB1. Induces apoptosis in breast cancer cells, but not in other cancer cells, via a caspase-2 mediated pathway that involves mitochondrial membrane permeabilization but does not require other caspases. May also act as an inhibitor of cyclin A-associated kinase. Also acts a component of the CENPA-CAD (nucleosome distal) complex, a complex recruited to centromeres which is involved in assembly of kinetochore proteins, mitotic progression and chromosome segregation. May be involved in incorporation of newly synthesized CENPA into centromeres via its interaction with the CENPA-NAC complex (By similarity).[UniProtKB/Swiss-Prot Function]