

Product datasheet for **RN210887**

Itgb3bp (NM_001013213) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Itgb3bp (NM_001013213) Rat Untagged Clone
Tag: Tag Free
Symbol: Itgb3bp
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN210887 representing NM_001013213
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGTTAAAAGATCACTGAACTGGACGATCAGTTTGAAGAAAATTCATTTGGTCCTTCAAAAATCA
 TGAGGAAGAAAAGTATTACAGCTTTTTCTCCAACACTGGAATTATCAATTGAGCCATTTTCCTCTCC
 CAGAACCCCAAAGAACAAGAGCACAGAGACGGACCATCAAATGGAACAAGAAAATGGAGTGTCTTGAGC
 TCACCTGCAAGACAGGACTCCACAGTGAAAGGCAGTGATGGATTCATGATGTTGCTATCTAAAATTGAGA
 GATCATCGGAGAAAACCATGGAGATAATGAAAAATTTAAGTAGTCTACAGGCTTTGGAGGCAACAGACA
 ACTTGAAGATCTCCTTGGTGTTCCTAGTACCATGCTCCTTAAAAAGTGAAGCAAAGAAAACAAAGAG
 CTAATGACAAAAGTAATGAAACAAAAGCTATTTGAAAAGAAAATTCAGAATTCCTCCAAAGAACATC
 ATCCTAACAGCTTTGAATTCCTTAAAGCCATTTGAAC**TGA**

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001013213
Insert Size: 531 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).



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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_001013213.1](#), [NP_001013231.1](#)

RefSeq Size: 1130 bp

RefSeq ORF: 531 bp

Locus ID: 362548

UniProt ID: [Q5U1Z7](#)

Cytogenetics: 5q33

Gene Summary: 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]