

Product datasheet for **MG201548**

Itgb3bp (NM_026348) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Itgb3bp (NM_026348) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Itgb3bp
Synonyms: 4930471O16Rik; AU022583
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201548 representing NM_026348
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGCCAGTTAAAAGATCACTGAACTGGATGATCAGTTTGAAAAAATTCATTTAGTCCTTCAAAAATCG
TGAGGAAGAAAAGTATTACAGCTTATTCTCCTACTACTGGAACCTATCAGTTGAGCCATTTTCTTCTCC
CGCAACCCCAAGAAGACAGGAGCACAGAAACGGACCATCAATGAAACAAGGAAACGGAGTAACCTTGAGC
TCACCTGTAAGACAGGAGTCCACAGTGAAGACAGGGATGGATTCATGGTGTGCTATCTAAAATTGAGA
TATCATCAGAGAAAACCATGGAGATAATGAAAAATCTAAGTAGTATACAGGCTTTGGAGGGCAACAGACA
ACTTGAAGATCTCATTGGTGTTCCTAGTACCATGCTCCTTAAAAAGTGAAGCAAGGAAAACCAAGAA
CTAATGACTAAAGTAATAAAACAAAAGTTGTTTGAAAAAGAAAAAATCAAGAATTACTCCCAAGATCATC
ATCTTGACAGCTTTGAATTCCTTAAAGCCATTTTGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201548 representing NM_026348
Red=Cloning site Green=Tags(s)

MPVKRSLKDDQFEKNSFSPSKIVRKISITAYSPTTGTQYQLSPFSSPATPKQEHRNGPSNETRKRSNLS
 SPVRQESTVKDRDGMVLLSKIEISSEKTMEIMKNLSSIQALEGNRQLEDLIGVSLVPCSLKSEARKTKE
 LMTKVIKQKLFEKKSRITPKDHHLDSEFLKAILN

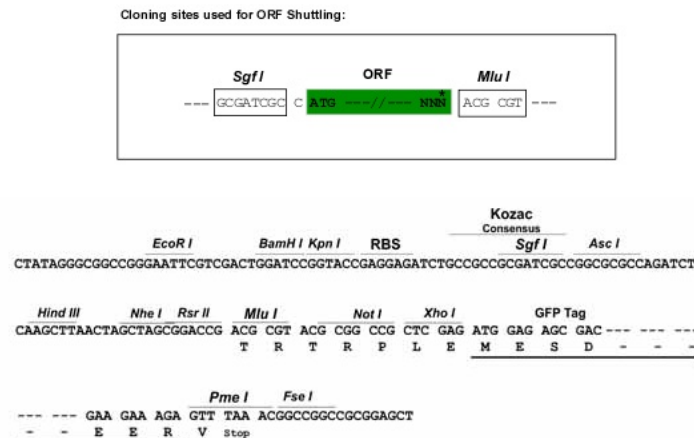
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_026348

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.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_026348.4](#)

RefSeq Size: 2738 bp

RefSeq ORF: 531 bp

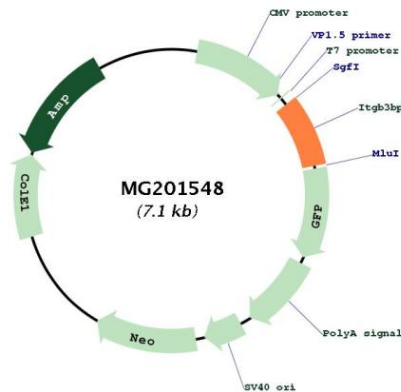
Locus ID: 67733

UniProt ID: [Q9CQ82](#)

Cytogenetics: 4 C6

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]

Product images:



Circular map for MG201548