

Product datasheet for **RG215481**

ITGB1BP2 (NM_012278) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ITGB1BP2
Synonyms:	CHORDC3; ITGB1BP; MELUSIN; MSTP015
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG215481 representing NM_012278
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTCTACTCTGTCGTAACAAAGGCTGTGGGCAGCACTTTGACCCTAATACCAACCTTCCTGATTCTCT
GTTGCCATCACCCTGGGGTCCCAATCTTCCATGATGCACCTTAAGGGTTGGTCTGCTGCCGAAAGCGAAC
TGAGATTTCTCTGAGTTCTTAAACATCAAGGGCTGTACTATGGGACCACACTGTGCTGAGAAGCTTCCT
GAGGCCCTCAACCTGAAGGCCCTGCTACAAGCAGTTCACCTCAGGAGCAAAAACCTCTGAATGTGATT
CAAAGTCAGCAGAGACCTTGCGCCGGGAGAGGCCCAAGTCAGAGTTGCCCTCTGAAGCTGCTGCCGCTAAA
TATATCCCAAGCCCTGGAATGGCATTGGAACAGAAGGAATTAGACCAGGAACCTGGGCAGGACTTGAC
AGTCTGATCCGGACTGGTTCAGCTGCCAGAACCAGGATGTGATGCTGTTTACCAAGGCCCTGAGAGTG
ATGCTACTCCATGTACCTACCACCCAGGAGCACCCGATTCCATGAGGGGATGAAGTCTTGAGCTGTTG
TGGCATCCAGACCTGGATTTTGGGGCATTGTTTGGCACAACCAAGGGTGCAGAGTCGGTAGACATGACTGG
GGGAAGCAGCTCCAGCATCTTGCCGCCATGATTGGCACCAGACAGATTCTTAGTAGTGGTGACTGTAT
ATGGCCAGATTCCACTTCCTGCGTTAACTGGGTGAAGGCCAGTCAAACAGAGCTTCATGTCCACATTGT
CTTTGATGGTAACCGTGTGTTCCAAGCACAGATGAAGCTCTGGGGGTCATAACGTGGAGCAGAGCTCT
GTCTTCTTGATGCCATCTCGGGTTGAAATCTCCCTGGTCAAGGCTGACCCAGGATCCTGGGCCAGCTGG
AGCACCTGATGACTAGCTAAGAAGGCTAGGGCAGGGGTTGTGTTAGAGATGGATGAGGAAGAATCTGA
CGATTGATGATCTGAGCTGGACAGAGGAGGAGGAAGAGGAGGAAGCAATGGGGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG215481 representing NM_012278
Red=Cloning site Green=Tags(s)

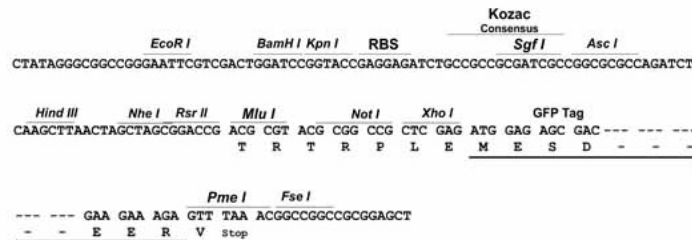
MSLLCRNKGCGQHFDPTNLPDSCCHHPGVPIFHDALKGWSCCRKRTVDFSEFLNIKGCTMGPHCAEKLPEAPQPEGPATSSSLQEQLNVIPKSAETLRRERPKSELPLKLLPLNISQALEMALEQKELDQEPGAGLDSLIRTGSSCQNPBGDAVYQGPESDTPCTYHPGAPRFHEGMKSWSCCGIQTLDGAFLAQPGCRVGRHDWGKQLPASCRHDWHQTDLSLVVVTVYGGIPLPAFNWVKASQTELHVHIVFDGNRVFQAQMKLWGVINVEQSSVFLMPSRVEISLVKADPGSWAQLHPDALAKKARAGVLEMDDEESDDSDDDLSTTEEEEEEEAMGE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_012278

ORF Size: 1041 bp

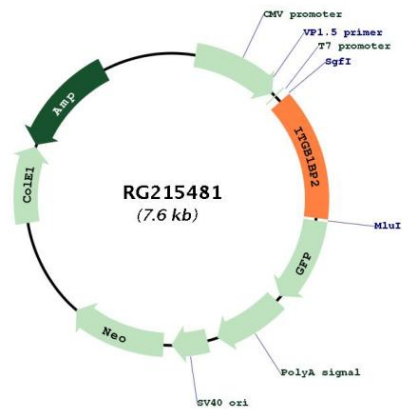
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_012278.1 , NP_036410.1
RefSeq Size:	1235 bp
RefSeq ORF:	1044 bp
Locus ID:	26548
UniProt ID:	Q9UKP3
Cytogenetics:	Xq13.1
Gene Summary:	This gene encodes a protein with two cysteine and histidine-rich (CHORD) domains, PXXP motifs, YXXI/P motifs, putative SH2 and SH3 domain binding motifs, and an acidic region at the C-terminus that can bind calcium. Two hybrid analysis showed that this protein interacts with the cytoplasmic domain of the beta 1 integrin subunit and is thought to act as a chaperone protein. Studies in the mouse ortholog of this gene indicate that absence of this gene in mouse results in failed cardiac hypertrophy in response to mechanical stress. Alternative splicing results in multiple transcript variants encoding different isoforms, including an isoform that lacks several domains, including one of the CHORD domains. [provided by RefSeq, May 2017]

Product images:



Circular map for RG215481