

Product datasheet for **RG236702**

ITGB1BP2 (NM_001303277) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITGB1BP2 (NM_001303277) Human Tagged ORF Clone
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:	>RG236702 representing NM_001303277. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCATTGGAACAGAAGGAATTAGACCAGGAACCTGGGGCAGGACTTGACAGTCTGATCCGGACTGGT
TCCAGCTGCCAGAACCCAGGATGTGATGCTGTTTACCAAGGCCCTGAGAGTGATGCTACTCCATGTACC
TACCACCCAGGAGCACCCCGATTCCATGAGGGGATGAAGTCTGGAGCTGTTGTGGCATCCAGACCCCTG
GATTTTGGGGCATTCTTGGCACAACCAGGGTGCAGAGTCGGTAGACATGACTGGGGGAAGCAGCTCCCA
GCATCTTGCCGCCATGATTGGCACCAGACAGATTCCTTAGTAGTGGTACTGTATATGGCCAGATTCCA
CTTCTGCGTTTAACTGGGTGAAGGCCAGTCAAACCTGAGCTTCATGTCCACATTGCTTTGATGGTAAC
CGTGTGTTCCAAGCACAGATGAAGCTCTGGGGGTCATAAACGTGGAGCAGAGCTCTGTCTTCTTGATG
CCATCTCGGGTTGAAATCTCCCTGGTCAAGGCTGACCCAGGATCCTGGGCCAGCTGGAGCACCCCTGAT
GCACTAGCTAAGAAGGCTAGGGCAGGGGTTGTGTTAGAGATGGATGAGGAAGAATCTGACGATTCAGAT
GATGATCTGAGCTGGACAGAGGAGGAGGAAGAGGAGGAAGCAATGGGGGAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236702
 Blue=ORF Red=Cloning site Green=Tag(s)

MALEQKELDQEPGAGLDSLIRTGSSCQNPGCDAVYQGPESDATPCTYHPGAPRFHEGMKSWSCCGIQL
 DFGAFLAQPGCRVGRHDWQKQLPASCRRDWHQTDLSLVVTVYQGQIPLPAFNWVKASQTELHVHIVFDGN
 RVFQAQMKLWGVINVEQSSVFLMPSRVEISLVKADPGSWAQLHEPDLAKKARAGVVLEMDEEESDDSD
 DDL SWTEEEEEEEAMGE
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIIGDFKVMGTGFPED
 SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001303277

ORF Size: 672 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).

RefSeq: [NM_001303277.3](#)

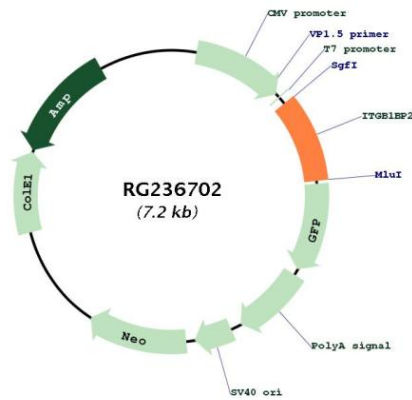
RefSeq Size: 1039 bp

RefSeq ORF: 675 bp

Locus ID: 26548
Cytogenetics: Xq13.1
MW: 25.2 kDa

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 RG236702