

Product datasheet for **RG214688**

ITGB1BP1 (NM_022334) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ITGB1BP1
Synonyms:	ICAP-1A; ICAP-1alpha; ICAP-1B; ICAP1; ICAP1A; ICAP1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214688 representing NM_022334
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTCGCAAGGGCAAAAAACGACACAGTAGTAGCAGTTCCTCAAGTAGCGAAATCAGTACTAAGAGCA
AGTCTGTGGATTCTAGCCTTGGGGGTCTTTCACGATCCAGCACTGTGGCCAGCCTCGACACAGATTCAC
CAAAAGCTCAGGACAAAGCAACAATAATTCAGATACCTGTGCAGAAATTCGAATAAAATATGTTGGTGCC
ATTGAGAACTGAACTCTCCGAGGGAAGGCCTTGAAGGGCCATTAGACCTGATAAATTATATAGACG
TTGCCAGCAAGATGGAAGTTGCCTTTTGTCTCCGAGGAAGAATTATTATGGGAGTTTCCAAGTA
TGGCATAAAAGTATCAACATCAGATCAATATGAACAAGCACAAGCCATTGCAAGGTTTTATCCACCGCT
TTGACTCTGTATTAACATCTGAGAAACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214688 representing NM_022334
Red=Cloning site Green=Tags(s)

MFRKGKKRHSSSSQSSEISTKSKSVDSLLGGLSRSSSTVASLDTDSTKSSGQSNNNSDTCAEFRIKYVGA
IEKLLKLEGGLEPLDLINIDVAQDGKLPFVPPEEEFIMGVSKYGIKVSTSDQYEQQAICKVLSTA
FDSVLTSEKP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_022334

ORF Size: 450 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_022334.5](#)

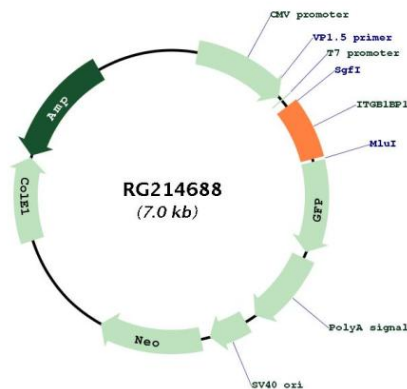
RefSeq Size: 1275 bp
RefSeq ORF: 453 bp
Locus ID: 9270

UniProt ID: [O14713](#)

Cytogenetics: 2p25.1

Gene Summary: The cytoplasmic domains of integrins are essential for cell adhesion. The protein encoded by this gene binds to the beta1 integrin cytoplasmic domain. The interaction between this protein and beta1 integrin is highly specific. Two isoforms of this protein are derived from alternatively spliced transcripts. The shorter form of this protein does not interact with the beta1 integrin cytoplasmic domain. The longer form is a phosphoprotein and the extent of its phosphorylation is regulated by the cell-matrix interaction, suggesting an important role of this protein during integrin-dependent cell adhesion. Several transcript variants, some protein-coding and some non-protein coding, have been found for this gene. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RG214688