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Product datasheet for SC117162

ITGB1BP1 (NM_004763) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	ITGB1BP1
Synonyms:	ICAP-1A; ICAP-1alpha; ICAP-1B; ICAP1; ICAP1A; ICAP1B
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC117162 sequence for NM_004763 edited (data generated by NextGen Sequencing)

ATGTTTCGCAAGGGCAAAAAACGACACAGTAGTAGCAGTTCCCAAAGTAGCGAAATCAGT
ACTAAGAGCAAGTCTGTGGATTCTAGCCTTGGGGGTCTTTCACGATCCAGCACTGTGGCC
AGCCTCGACACAGATTCCACCAAAAGCTCAGGACAAAGCAACAATAATTCAGATACCTGT
GCAGAATTTCGAATAAAATATGTTGGTGCCATTGAGAAACTGAAACTCTCCGAGGGAAAA
GGCCTTGAAGGGCCATTAGACCTGATAAATTATATAGACGTTGCCCAGCAAGATGGAAAG
TTGCCTTTTGTTCCTCCGGAGGAAGAATTTATTATGGGAGTTTCCAAGTATGGCATAAAA
GTATCAACATCAGATCAATATGATGTTTTGCACAGGCATGCTCTCTACTTAATAATCCGG
ATGGTGTGTTACGATGACGGTCTGGGGGCGGGAAAAAGCTTACTGGCTCTGAAGACCACA
GATGCAAGCAATGAGGAATACAGCCTGTGGGTTTATCAGTGCAACAGCCTGGAACAAGCA
CAAGCCATTTGCAAGGTTTTATCCACCGCTTTTGACTCTGTATTAACATCTGAGAAACCC
TGA

Clone variation with respect to NM_004763.3

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004763 unedited
NGGAAACGTTCAAAATTTGTATACGACTCACTATAGGGCGGCCGCGAATTCGCACGAGGC
GCGGGCCGTTTCCTTGCCTCTTCCTCTGCCCCGCTTCGGCCGCCTCCCGCCTCTCAGGGT
CGGGGTTGTCTGTCCCCTTCGCTGTCACATCCTCCGCACCCAGCGCTTGGAAGGTGCTCC
ATCACGGTGACAGACAGGTGCCAAGCAGGCTGGCGTCTGGGAGGAACTTCGGAGCCGGCT
CTCCCTAGGCCCCGAGCTTGGCCGCATCCGTCCTTACTCTGGTGACCCTGGGCAGGTCAC
TGACTCTTCGGGCGCTTTGGCATCCTCGTTTGAAAGGGGCTGTTATCCTGCAGCCTTGCT
GGTCGGTGAGGGTGAGGGTGAGAGGGATCTGTGCACCTAGCACCGTGCATGGCACGTGGT
AGGCGTTTGGTACATGGGAATCGCTGTTGGGGTGTCACCTCCCCAGAAAGTTCTCGGCTT
CAGTAAGCGCGTCCCCTGCCAGGCGCCCTGGCAATGCAGAGGAGTCACCGAGCTCCGCCT
TTGACCAGCGTGCAGCTGGGAGAGTGAGATCAGAGACCACAGCAGATCGTGGCGCTGTGA
TCAGGGGGTACACTCAAGCTGTGGGTCCCTTACCCCAGCCTTGAGATCCCAGGAAGGCCT
GCAGCCTGAAACGGGCCTTGAAAGGGGATCTTCTCTGGATCAAGCAATGGTGGTGAAAAA
ATGTTTCGCAGGGCAAAAAACGACACAGTAGTAGCAGTTCCCAAAGTAGCGAAATCAGTA
CTAAGAGCAAGTCTGTGGATTCTAGCCTTGGGGGGTCTTTCACGATCCAGCACTGTGGCC
AGCCTCGACACAGATTCCACCAAAAGCTCAGGACAAAGCAACAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004763 unedited
TAGCTATGTACCGCGCGCCGCAATCTAGNGATCGGCTTTTTTTTTTTTTTTTTCCCTGT
GTAATAGGATACATTTTATAAACAAAGATCAGCATTTTACACAATCCATTTTCTTCAGAA
AATCTAGAGCAAGGGATAACTTCATTATTTGCATAACATTTCAGCATTGCAGTTTGAAAA
CAGCTGAACTTTCAGATGAAGTTGACTTCTACTTGATTGCAGGATTCAGGGTTTCTCAGA
TGTTAATACAGAGTCAAAAGCGGTGGATAAAACCTTGCAAATGGCTTGTGCTTGTTCCAG
GCTGTTGCACTGATAAACCCACAGGCTGTATTCCTCATTGCTTGCATCTGTGGTCTTCAA
AGCCAGTAAGCTTTTTCCCGCCCCCAGACCGTCATCGTAACACACCATCCGGATTATTAA
GTAGAGAGCATGCCTGTGCAAAACATCATATTGATCTGACGTTGATACTTTTATGCCATA
CTTGGAAACTCCCATAATAAATTCTTCCTCCGGAGGAACAAAAGGCAACTTTCCATCTTG
CTGGGCAACGTTTATATAATTTATCAGGTCTAACGGCCCCTTAAGGCCTTTTCCCTCGGA
GAGTTTCAGTTTCTCATGGCCCCCACATATTTCATCCCCCATTCCCTGCCAGGTATTCTG
AACAACTGCCGCTTCCCCCTCGACTTTTGGGGGAATCCGCTCAAAAGTTTGCCCCAGCCC
TGGATCGTGAAATACCCCCATGCTTACACCTCCACCCTTCCTCTTATCCCGCCTTCGCTC
CTTCGGACCTGTTCCCCCGCGCCCCTTCTCCCTTCGCAAAATCTCTACCCCCATCCCTCA
CCCAAAAAATCCCCTTTAAGA

Restriction Sites: NotI-NotI

ACCN: NM_004763

Insert Size: 1530 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_004763.2, NP_004754.1

RefSeq Size: 1425 bp

RefSeq ORF: 603 bp

Locus ID: 9270

UniProt ID: O14713

Cytogenetics: 2p25.1

Domains: PID

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]

Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 3. Variants 1, 3, 4, and 5 all encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.