

Product datasheet for RC215237

Integrin beta 4 binding protein (EIF6) (NM_181466) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Integrin beta 4 binding protein (EIF6) (NM_181466) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Integrin beta 4 binding protein
Synonyms:	b(2)gcn; CAB; eIF-6; EIF3A; ITGB4BP; p27(BBP); p27BBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215237 representing NM_181466 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGCGGTCCGAGCTTCGTTTCGAGAACAACGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACT
GTCTGGTAGCGATCGGAGGCTCAGAGAATTCTACAGGTGCGGCGGAGCCCCGGGGCTTACGGTGGCGG
GGAGGCGTGCGCAGGAGTCAAGAGCTCCGGCAGTGGGAGGGTCCCGGCCCTCTGCCCGCCACCACCGA
GTCCATGTCCCTACAGTGTGTTTCGAGGGCGAGCTCTCCGATACCATCCCCGTGGTGCACGCGTCTATCGC
CGGCTGCCGCATCATCGGGCGCATGTGTGTGGGAGACAGAAGAAATTCGGCAGATGTGCTCAAGGTGGA
AGTCTTCAGACAGACAGTGGCCGACCAGGTGCTAGTAGGAAGCTACTGTGTCTTCAGCAATCAGGGAGGG
CTGGTGCATCCCAAGACTTCAATTGAAGACCAGGATGAGCTGCCTCTCTTCAAGTCCCCCTTGTGG
CGGGGACTGTGAACCGAGGCAGTGAGGTGATTGCTGCTGGGATGGTGGTGAATGACTGGTGTGCCTCTG
TGGCCTGGACACAACCAGCACAGAGCTGTCAGTGGTGGAGAGTGTCTTCAAGCTGAATGAAGCCCAGCCT
AGCACCATTGCCACCAGCATGCGGGATTCCCTCATTGACAGCCTCACC

ACGGGCCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
TTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC215237 representing NM_181466
Red=Cloning site Green=Tags(s)

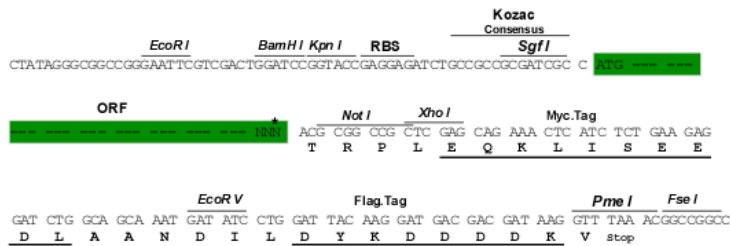
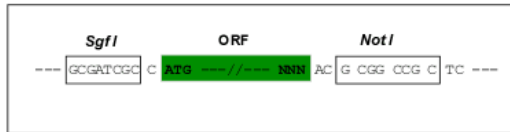
MAVRASFENNCEIGCFAKLTNTYCLVAIGGSENFYRCGGSPGAYGGGEACAGVKSSGSGRVPAPLPRHHR
 VHVPTVCSRASSPIPSWCTRLSPAAASSGACVWETEEILADVLKVEVFRQTADQVLVGSYCVFSNQQG
 LVHPKTSIEDQDELSLLQVPLVAGTVNRGSEVIAAGMVVNDWCAFCGLDTTSTELSVVESVFKLNEAQP
 STIATSMRDSLIDSLT

TRRLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-NotI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_181466

ORF Size: 678 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.

RefSeq: [NM_181466.3](#)

RefSeq Size: 1057 bp

RefSeq ORF: 681 bp

Locus ID: 3692

UniProt ID: [P56537](#)

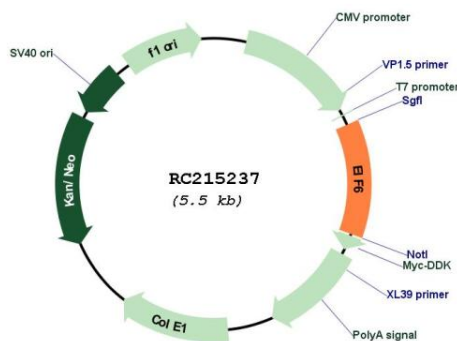
Cytogenetics: 20q11.22

Protein Families: Druggable Genome

MW: 23.6 kDa

Gene Summary: Hemidesmosomes are structures which link the basal lamina to the intermediate filament cytoskeleton. An important functional component of hemidesmosomes is the integrin beta-4 subunit (ITGB4), a protein containing two fibronectin type III domains. The protein encoded by this gene binds to the fibronectin type III domains of ITGB4 and may help link ITGB4 to the intermediate filament cytoskeleton. The encoded protein, which is insoluble and found both in the nucleus and in the cytoplasm, can function as a translation initiation factor and prevent the association of the 40S and 60S ribosomal subunits. Multiple non-protein coding transcript variants and variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jun 2012]

Product images:



Circular map for RC215237