

Product datasheet for **RC220391**

Integrin beta 4 binding protein (EIF6) (NM_181468) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Integrin beta 4 binding protein (EIF6) (NM_181468) 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: | >RC220391 representing NM_181468 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTCCGAGCTTCGTTTCGAGAACAACCTGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACT
GTCTGGTAGCGATCGGAGGCTCAGAGAACTTCTACAGTGTGTTTCGAGGGCGAGCTCTCCGATACCATCCC
CGTGGTGCACGCGTCTATCGCCGGCTGCCGCATCATCGGGCGCATGTGTGTGGGAAACAGGCACGGTCTC
CTGGTACCAACAATACCACCGACCAGGAGCTGCAACACATTTCGCAACAGCCTCCAGACACAGTGCAGA
TTAGGCGGGTGGAGGAGCGGCTCTCAGCCTTGGGCAATGTCACCACCTGCAATGACTACGTGGCCTTGGT
CCACCCAGACTTGGACAGGGAGACAGAAGAAATTCGGCAGATGTGCTCAAGGTGGAAGTCTTCAGACAG
ACAGTGGCCGACCAGGTGCTAGTAGGAAGTACTGTGTCTTCAGCAATCAGGGAGGGCTGGTGCATCCCA
AGACTTCAATTGAAGACCAGGATGAGCTGTCTCTTCTTCAAGTCCCCCTTGTGGCGGGGACTGTGAA
CCGAGGCAGTGAGGTGATTGCTGCTGGGATGGTGGTGAATGACTGGTGTGCCTTCTGTGGCTGGACACA
ACCAGCACAGAGCTGTCAGTGGTGGAGAGTGTCTTCAAGCTGAATGAAGCCAGCCTAGCACCATTGCCA
CCAGCATGCGGGATTCCCTCATTGACAGCCTCACC

AC**GGGCCGCT**CGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
TTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC220391 representing NM_181468
 Red=Cloning site Green=Tags(s)

MAVRASFENNCEIGCFAKLTNTYCLVAIGGSENFYSVFEGELSDTIPVVHASIAGCRIIGRMCVGNRHGL
 LVPNNTDQELQHIRNSLPDTVQIRRVVEERLSALGNVTTCDNYVALVHPDLDTRETEEILADVLLKVEVFRQ
 TVADQVLVGSYCVFSNQGLVHPKTSIEDQDELSSLLQVPLVAGTVNRGSEVIAAGMVVNDWCAFCGLDT
 TSTELSVVESVFKLNEAQPSTIATSMRDSLIDSLT

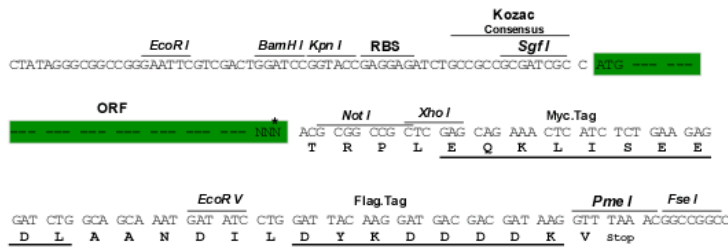
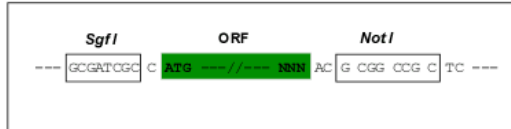
TRRL**E**QKLI**S**EEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3521_e12.zip

Restriction Sites: SgfI-NotI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_181468

ORF Size: 735 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_181468.2](#)

RefSeq Size: 1259 bp

RefSeq ORF: 738 bp

Locus ID: 3692

UniProt ID: [P56537](#)

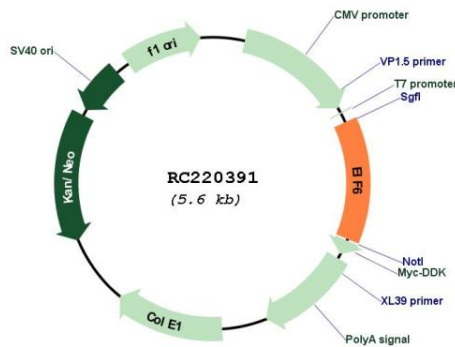
Cytogenetics: 20q11.22

Protein Families: Druggable Genome

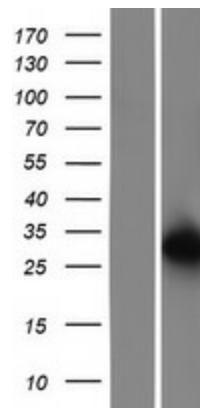
MW: 26.4 kDa

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 RC220391



Western blot validation of overexpression lysate (Cat# [LY405776]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220391 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EIF6 protein (Cat# [TP320391]). The protein was produced from HEK293T cells transfected with EIF6 cDNA clone (Cat# RC220391) using MegaTran 2.0 (Cat# [TT210002]).