

Product datasheet for **RG232265**

Integrin beta 4 binding protein (EIF6) (NM_001267810) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Integrin beta 4 binding protein (EIF6) (NM_001267810) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EIF6
Synonyms:	b(2)gcn; CAB; eIF-6; EIF3A; ITGB4BP; p27(BBP); p27BBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232265 representing NM_001267810 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTCCGAGCTTCGTTTCGAGAACAACACTGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACT
GTCTGGTAGCGATCGGAGGCTCAGAGAACTTCTACAGTGTGTTTCGAGGGCGAGCTCTCCGATACCATCCC
CGTGGTGACGCGTCTATCGCCGGCTGCCGCATCATCGGGCGCATGTGTGTGGGAAACAGGCACGGTCTC
CTGGTACCAACAATACCACCGACCAGGAGCTGCAACACATTTCGCAACAGCCTCCAGACACAGTGCAGA
TTAGGCGGGTGGAGGAGCGGCTCTCAGCCTTGGGCAATGTCACCACCTGCAATGACTACGTGGCCTTGGT
CCACCCAGACTTGACAGGGAGACAGAAGAAATTCGGCAGATGTGCTCAAGGTGGAAGTCTTCAGACAG
ACAGTGGCCGACCAGGTGCTAGTAGGAAGCTACTGTGTCTTCAGCAATCAGGGAGGGCTGGTGCATCCCA
AGACTTCAATTGAAGACCAGGATGAGCTGTCTCTCTTCTTCAAGTCCCCCTTGTGGCGGGGACTGTGAA
CCGAGGCAGTGAGGTGATTGCTGCTGGGATGGTGGTGAATGACTGGTGTGCCTTCTGTGGCTGGACACA
ACCAGCACAGAGCTGTGAGTGGTGGAGAGTGTCTTCAAGCTGAATGAAGCCAGCCTAGCACCATTGCCA
CCAGCATGCGGGATTCCCTCATTGACAGCCTCACC

AC**GGCCCGCTCGAG** - GFP Tag - GTTTAA



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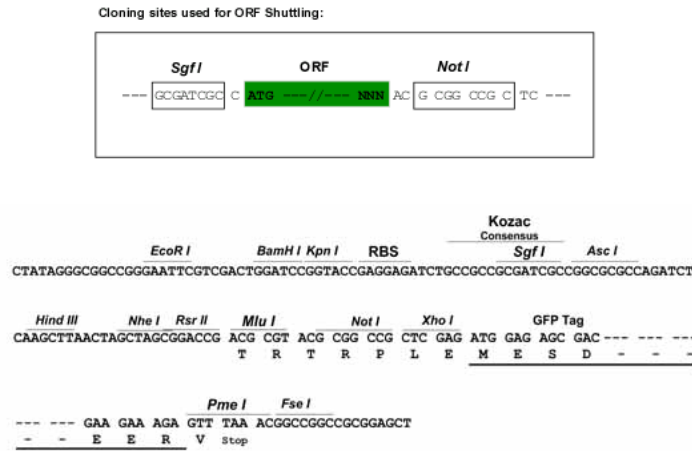
Protein Sequence: >RG232265 representing NM_001267810
Red=Cloning site Green=Tags(s)

MAVRASFENNCEIGCFALKTNTYCLVAIGGSENFYSVFEGELSDTIPVVHASIAGCRIIGRMCVGNRHGL
 LVPNNTDQELQHIRNSLPDTVQIRRVVEERLSALGNVTCNDYVALVHPDLDRETEEILADVLKVEVFRQ
 TVADQVLVGSYCVFSNQGGLVHPKTSIEDQDELSSLLQVPLVAGTVNRGSEVIAAGMVVNDWCAFCGLDT
 TSTELSVVESVFKLNEAQPSTIATSMRDSLIDSLT

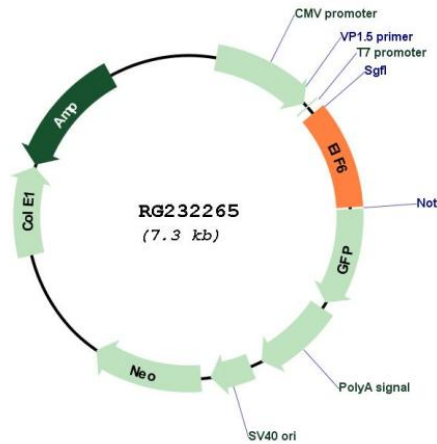
TRPLE - GFP Tag - V

Restriction Sites: Sgfl-NotI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001267810

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:	<ol style="list-style-type: none">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_001267810.1 , NP_001254739.1
RefSeq Size:	1065 bp
RefSeq ORF:	738 bp
Locus ID:	3692
UniProt ID:	P56537
Cytogenetics:	20q11.22
Protein Families:	Druggable Genome
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]