

## Product datasheet for **SC109360**

### Integrin beta 4 binding protein (EIF6) (NM\_181467) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Integrin beta 4 binding protein (EIF6) (NM_181467) Human Untagged Clone
Tag:	Tag Free
Symbol:	Integrin beta 4 binding protein
Synonyms:	CAB, EIF6, EIF3A, p27BBP, b(2)gcn
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_181467, the custom clone sequence may differ by one or more nucleotides

ATGGCGGTCCGAGCTTCGTTTCGAGAACAACACTGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACT  
GTCTGGTAGCGATCGGAGGCTCAGAGAACTTCTACAGTGTGTTTCGAGGGCGAGCTCTCCGATACCATCCC  
CGTGGTGCACGCGTCTATCGCCGGCTGCCGCATCATCGGGCGCATGTGTGTGGGAGACAGAAGAAATTCT  
GGCAGATGTGCTCAAGGTGGAAGTCTTCAGACAGACAGTGGCCGACCAGGTGCTAGTAGGAAGCTACTGT  
GTCTTCAGCAATCAGGGAGGGCTGGTGCATCCCAAGACTTCAATTGA

#### 5' Read Nucleotide Sequence:

>OriGene 5' read for NM\_181467 unedited  
NNTTGC GGTT CAGAATTGTATACGACTTCACTATAGGCGGCCGCGGAATTCGCACGAGGG  
TCCAAGGTACAGTCGCCGCTGCGGAGCTTGTACTGGGGACTTGGCCTCATGGCGGTCC  
GAGCTTCGTTTCGAGAACAACACTGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACT  
GTGTGGTAGCGATCGGAGGCTCAGAGAACTTCTACAGTGTGTTTCGAGGGCGAGCTCTCCG  
ATACCATCCCCGTGGTGCACGCGTCTATCGCCGGCTGCCGCATCATCGGGCGCATGTGTG  
TGGGGAACAGGCACGGTCTCCTGGTACCCAACAATACCACCGACCAGGAGCTGCAACAC  
ATTCGCAACAGCCTCCCAGACACAGTGCAGATTAGGCGGGTGGAGGAGCGGCTCTCAGCC  
TTGGGCAATGTCACCACCTGGAATGACTACGTGGCCTTGGTCCACCCAGACTTGGACAGG  
GAGACAGAAGAAATTCTGGCAGATGTGCTCAAGGGGGAAGTCTTCAGACAGACAGTGGCC  
GACCAGGTGCTAGTAGGAAGCTACTGTGTCTTCAGCAATCAGGGAGGGCTGGTGCATCCC  
AAGACTTCAATTGAAGACCAGGATGAGCTGTCTCTCTTCTTCAAGTCCCCCTTGTGGCG  
GGGACTGTGAACCNAGGCANTGAGGTGATTGCTGCTGGGATGGGGTGAATGACTGGTGT  
GCCTTCTGTGGCTGGACACAACCANCACGGAGCTGTANTGGGGAGAGTGTCTTCAAG  
CTGAATGAAGCCCAGCCTAGCACCATTGCCACCAGCATGCGGGATTCCCTCATTGACAGC  
CTCACCTGGGTACCTTCCAAGGTGGTCCATGGGCTCCTG



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<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_181467
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_181467.1, NP_852132.1</u>
<b>RefSeq Size:</b>	938 bp
<b>RefSeq ORF:</b>	327 bp
<b>Locus ID:</b>	3692
<b>Cytogenetics:</b>	20q11.22
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (5) lacks an alternate exon compared to variant 1, which causes a frameshift. The resulting isoform (b) is shorter and has a distinct C-terminus compared to isoform a. Both variants 3 and 5 encode isoform b.</p>