

Product datasheet for **RR215605**

Eif6 (NM_001037352) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Eif6 (NM_001037352) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Eif6
Synonyms: eIF-6; Itgb4bp
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215605 representing NM_001037352
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGTCAGAGCGTCGTTTCGAGAACAACCTGTGAGGTCGGTTGTTTTGCCAACTCACTAACACCTACT
GCCTGGTGGCCATCGGAGGGTCAGAGAATTCTACAGTGTGTTTCGAGGGCGAGCTCTCCGATACCATTCC
TGTAAGTGCACGCATCCATCGCCGGCTGCCGAATCATCGGGCGCATGTGTGTGGGAACAGGCATGGGCTG
CTGGTACCCAACAACACCACCGACCAGGAGCTGCAGCATATCCGCAACAGCCTTCCGGATTCAAGTGCAGA
TACGGCGGGTAGAGGAGCGGCTCTCAGCCCTTGGAATGTCACCACCTGCAATGACTATGTGGCCTTGGT
CCACCCAGACTTGGATAGGGAGACAGAAGAAATCCTGGCTGATGTGCTCAAGGTGGAAGTCTTCAGGCAG
ACGGTTGCTGACCAGGTGTTAGTTGGAAGCTACTGTGCTTCAGTAATCAAGGAGGTCTGGTGCACCCTA
AACTTCGATCGAGGATCAGGATGAGCTGTCTCCCTTCTCAGGTTCCCTTGTGGCAGGCACTGTGAA
CCGAGGGAGCGAGGTGATTGCTGCCGGGATGGTAGTGAATGATTGGTGTGCTTTCTGTGGCCTGGACACG
ACCAGCACAGAGCTGTCAAGTGGAGAGTGTCTTCAAGCTGAATGAAGCCAAACCTAGCACCATTGCCA
CCAGCATGCGGGACTCCCTCATTGACAGCCTCACA

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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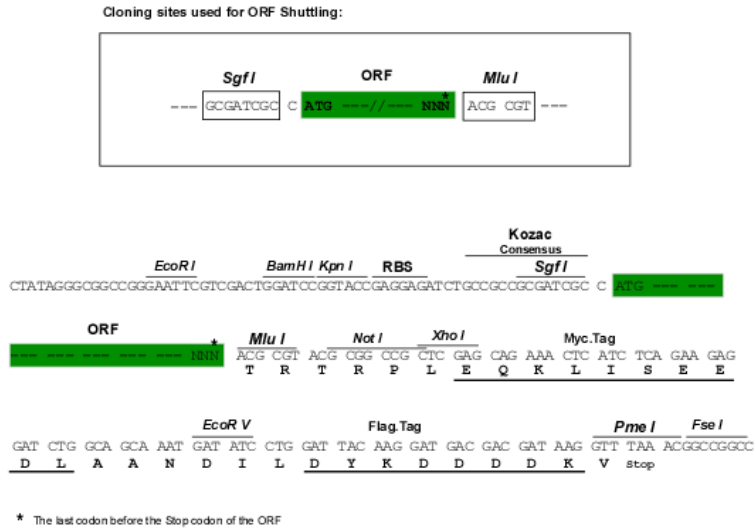
Protein Sequence: >RR215605 representing NM_001037352
Red=Cloning site Green=Tags(s)

MAVRASFENNCEVGCFAKLNTNYCLVAIGGSENFYSVFEGELSDTIPVVHASIAGCRIIGRMVGNRHGL
 LVPNNTDQELQHIRNSLPDSVQIRRVVEERLSALGNVTTCDNYVALVHPDLDRETEEILADVLKVEVFRQ
 TVADQVLVGSYCVFSNQGLVHPKTSIEDQDELSSLLQVPLVAGTVNRGSEVIAAGMVVNDWCAFCGLDT
 TSTELSVVESVFKLNEAKPSTIATSMRDSLIDSLT

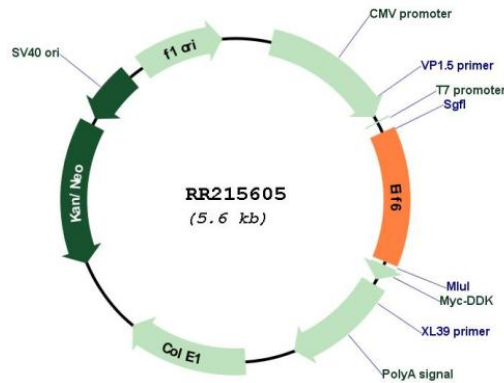
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001037352
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_001037352.1 , NP_001032429.1
RefSeq Size:	1254 bp
RefSeq ORF:	738 bp
Locus ID:	305506
UniProt ID:	Q3KRD8
Cytogenetics:	3q42
MW:	26.6 kDa
Gene Summary:	Binds to the 60S ribosomal subunit and prevents its association with the 40S ribosomal subunit to form the 80S initiation complex in the cytoplasm. Behaves as a stimulatory translation initiation factor downstream insulin/growth factors. Is also involved in ribosome biogenesis. Associates with pre-60S subunits in the nucleus and is involved in its nuclear export. Cytoplasmic release of TIF6 from 60S subunits and nuclear relocalization is promoted by a RACK1 (RACK1)-dependent protein kinase C activity. In tissues responsive to insulin, controls fatty acid synthesis and glycolysis by exerting translational control of adipogenic transcription factors such as CEBPB, CEBPD and ATF4 that have G/C rich or uORF in their 5'UTR. Required for ROS-dependent megakaryocyte maturation and platelets formation, controls the expression of mitochondrial respiratory chain genes involved in reactive oxygen species (ROS) synthesis. Involved in miRNA-mediated gene silencing by the RNA-induced silencing complex (RISC). Required for both miRNA-mediated translational repression and miRNA-mediated cleavage of complementary mRNAs by RISC. Modulates cell cycle progression and global translation of pre-B cells, its activation seems to be rate-limiting in tumorigenesis and tumor growth.[UniProtKB/Swiss-Prot Function]