

Product datasheet for **RG218136**

FKBP1B (NM_004116) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FKBP1B
Synonyms:	FKBP1L; FKBP12.6; OTK4; PKBP1L; PPlase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG218136 representing NM_004116
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGGCGTGGAGATCGAGACCATCTCCCCGGAGACGGAAGGACATTCCCAAGAAGGGCCAAACGTGTG
TGGTGCACACAGGAATGCTCCAAATGGGAAGAAGTTTGATTCATCCAGAGACAGAAACAAACCTTT
CAAGTTCAGAATTGGCAACAGGAAGTCATCAAGGTTTGAAGAGGGTGCAGCCAGATGAGCTTGGGG
CAGAGGGCGAAGCTGACCTGCACCCCTGATGTGGCATATGGAGCCACGGGCCACCCCGGTGTCATCCCTC
CCAATGCCACCCTCATCTTTGACGTGGAGCTGCTCAACTTAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218136 representing NM_004116
Red=Cloning site Green=Tags(s)

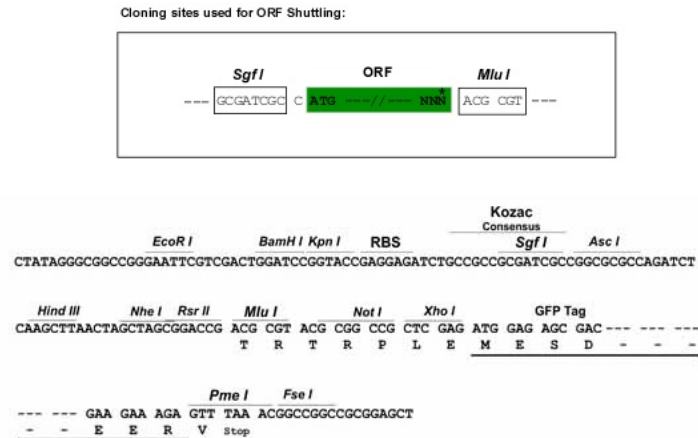
MGVEIETISPGDGRTPPKKGQTCVVHYTGMLQNGKKFDSSRDNRNPKFRIGKQEVIKGFEEGAAQMSLG
QRAKLCTPDVAYGATGHPGVIPPNATLIFDVLLNLE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_004116

ORF Size: 324 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

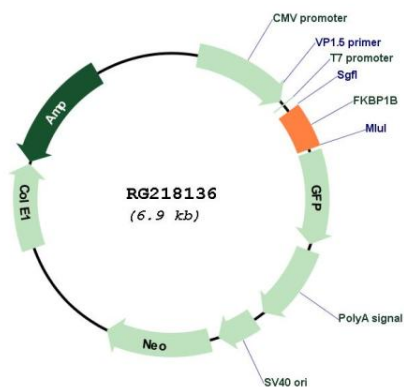
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_004116.5</u>
RefSeq Size:	971 bp
RefSeq ORF:	327 bp
Locus ID:	2281
UniProt ID:	<u>P68106</u>
Cytogenetics:	2p23.3
Domains:	FKBP
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This encoded protein is a cis-trans prolyl isomerase that binds the immunosuppressants FK506 and rapamycin. It is highly similar to the FK506-binding protein 1A. Its physiological role is thought to be in excitation-contraction coupling in cardiac muscle. There are two alternatively spliced transcript variants of this gene encoding different isoforms. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG218136