

## Product datasheet for **SC117568**

### FKBP1B (NM\_004116) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | FKBP1B (NM_004116) Human Untagged Clone   |
| Tag:                      | Tag Free  |
| Symbol:                   | FKBP1B  |
| Synonyms:                 | FKBP1L; FKBP12.6; OTK4; PKBP1L; PPIase  |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_004116, the custom clone sequence may differ by one or more nucleotides |

```
ATGGGCGTGGAGATCGAGACCATCTCCCCGGAGACGGAAGGACATCCCCAAGAAGGGCCAAACGTGTG
TGGTGCCTACACAGGAATGCTCCAAAATGGGAAGAAGTTTGATTCATCCAGAGACAGAAACAAACCTTT
CAAGTTCAGAATTGGCAAACAGGAAGTCATCAAAGTTTTGAAGAGGGTGCAGCCAGATGAGCTTGGGG
CAGAGGGCGAAGCTGACCTGCACCCCTGATGTGGCATATGGAGCCACGGGCCACCCCGGTGTCATCCCTC
CCAATGCCACCCTCATCTTTGACGTGGAGCTGCTCAACTTAGAGTGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004116 unedited  
 GTTCAGGAATTATGTATACGACTCACTATAGGNGACTCNCGCGAATCGGCACGAGGCCT  
 CGTGCCGAATTCGGCACGAGGAGGAGGCCGAGCCGAGCGACGGAAGGACATTCGCCAAGA  
 AGGGCCAAACGTGTGTGGTGCACACAGGAATGCTCCAAAATGGGAAGAAGTTTGATT  
 CATCCAGAGACAGAAAACAAACCTTTCAAGTTCAGAATTGGCAAACAGGAAGTCATCAAAG  
 GTTTTGAAGAGGGTGCAGCCCAGATGAGCTTGGGGCAGAGGGCGAAGCTGACCTGCACCC  
 CTGATGTGGCATAATGGAGCCACGGGCCACCCCGGTGTCATCCCTCCCAATGCCACCCTCA  
 TCTTTGACGTGGAGCTGCTCAACTTAGAGTGAAGGCAGGAAGGAACTCAAGGTGGCTGAC  
 GATGGCTGCTGCTCACCTCCTAGCCTGCTCTGCCACTGGGACGGCTCCTGCATTGGGG  
 CTCTTGATCAGTGTGCTAACCTCACTGCCTCATGGCATCATCCATTCTCTCTGCCAAGT  
 TGCTCTGTATGTTCGTCAGTGTTCATGCGAATCTTGCTTGAGGAACTTCGGTTGCA  
 GATTGAAGCATTCAGGTTGTGCAATTTGTGTGATGCATGTAGTAGCCTTTCCTGATGAC  
 AGAACACAGATCTTGTTCGCACAATCTACACTGGCTTACCTTCACTTAAACCACACAC  
 ACAAGGTGCTCAGACATGANATGTACATTGCGTACCGTACACAGAGGGACTTGAGCCAGT  
 TACCTTTGCTGTCACTTTCTCTAATAAATTCTGGTAGCTGCTCACTTAAACATGTCCT  
 CTTTGA AAAATGTAAAATAAAGGTTTTGTGCTTGACAAAAAAAAAAAAAAAAAACTCGACT  
 TAATATGCGGCCCGGCATAGCTGTTTCCTG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004116 unedited  
 ATGGCACTTCCAGGGCCGNAAAGCACTGGGGAGGGTACAGGGATGCCACCCGGGATC  
 TGTTCAAGAAACAGCTATGACCCGCGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTT  
 TTGTCAAGCACAGAGCCTTTATTTTACATTTTCTCAAAGAGGACATTGTTTAAAGTGAGCA  
 GCTAACAGAATTTATAAGAGAGAAAGTGACAGCAAAGGTAACCTGGCTCAAGTCCCTCTGT  
 GTACGGTACGCCATGTACATTTTATGTCTGAGCACCTTGTGTGTGGTTTAAAGTGAAGG  
 TAAGGCAGTGTANATTGTGCGAACAAGAGATCTGTGTTCTGTCATCAGGAAAGGCTACTA  
 CATGCATCACAAAAATGCACAACCTGAAATGCTTCAATCTGCAACCGAAGTTTCCTCAA  
 GCAAGAATTCGCATGAACACTGACGAACACATACAGAGCAACTTGGGCAGAGAGAATGGA  
 TGATGCCATGAGGCAGTGAAGTTAGCACACTGATCAAGAGCCCCAAAAGCAGGAGCCGTC  
 CCAGTGGCAGAGCAGGCTAGGAGGGTGAAGCAGCAGCCATCTCCAGCCACCTTGAGTTCCT  
 TCCTGCCTTCACTAAGTTGAGCAGCTCCACGTCAAAGATGGAGGGTGGCATTGGGAGG  
 GATGANACACCGGGTGGCCCGTGGCTCCATATGCCACATCAGGGGTGCAGGTGAGCTTCGC  
 CCTCTGCCAAGCTCATCTGGGCTGCACCTCTTANAACCTTTGATGACTTCTGTGGCA  
 TTCTGAACTGAAAGTTTTGNTCTGTCTCTGGATGATCAAACCTTCTCCATTTTGGACATT  
 CTGGGGTATGACCACCACGTTTGCCTCTGGGGATGCCCTTCCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004116

**Insert Size:**

840 bp

**OTI Disclaimer:**

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).

**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\\_004116.2](#), [NP\\_004107.1](#)

**RefSeq Size:** 971 bp

**RefSeq ORF:** 327 bp

**Locus ID:** 2281

**UniProt ID:** [P68106](#)

**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]

Transcript Variant: This variant (1) uses an alternate splice site in the 3' coding region, compared to variant 2. The resulting isoform (a) has a longer and distinct C-terminus, compared to isoform a.