

Product datasheet for SC109241

FKBP12 (FKBP1A) (NM 000801) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: FKBP12 (FKBP1A) (NM_000801) Human Untagged Clone

Tag: Tag Free Symbol: FKBP12

Synonyms: FKBP-1A; FKBP-12; FKBP1; FKBP12; PKC12; PKC12; PPIASE

Mammalian Cell

Selection:

None

Vector: pCMV6-XL5

E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF within SC109241 sequence for NM_000801 edited (data generated by NextGen

Sequencing)

GATGTGGAGCTTCTAAAACTGGAATGA

Clone variation with respect to NM $_$ 000801.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000801 unedited NGGTGCAGATTTGTATACGACTCACTATAGGCGGCNCGCGATTCGGCACGAGGTGCGCGT GCGCAGGCGACGCCNGAGTACTAGGCAGAGCCGTGGAACCGCCGCCAGGTCGCTGTTG GTCCACGCCGCCGTCGCGCCGCCCGCCCGCTCAGCGTCCGCCGCCGCCATGGGAGTGCA GGTGGAAACCATCTCCCCAGGAGACGGGCGCACCTTCCCCAAGCGCGGCCAGACCTGCGT GGTGCACTACACCGGGATGCTTGAAGATGGAAAGAAATTTGATTCCTCCCGGGACAGAAA CAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGGT TGCCCAGATGAGTGTGGGTCAGAGAGCCAAACTGACTATATCTCCAGATTATGCCTATGG TGCCACTGGGCACCCAGGCATCATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCT TCTAAAACTGGAATGACAGGAATGGCCTCCTCCCTTAGCTCCCTGTTCTTGGATCTGCCA TGGAGGGATCTGGTGCCTCCAGACATGTGCACATGAGTCCATATGGAGCTTTTCCTGATG TTCCACTCCACTTTGTATAGACATCTGCCCTGACTGAATGTGTTCTGTCACTCAGCTTTG CTTCCGACACCTCTGTTTCCTCTTTCCCTTTCTCCTCGTATGTGTGTTTTACCTAAACTAT ATGCCATAAACCTCAAGTTACTCATTTTATTTTGTTTTCATTNTGGGGGTGAAGATTCGT TTTAGTCTTTTTGATTAGGTTTCCCATTAAGTACATGGTCAAGTATTACCAGCACAAGTG **GTAATATTT**

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000801 unedited TTTTTTTTTTTTTGAGAAAACCGGCATAAAGCACTTTTATTGCAATAATAAAACTT GAGACTCATAAATGGTGCTGGGGGAAGGGTGCAGCAACGATTTCTCACCAAATCACTACA CAGGACAGCAAAGGGGTGAGAAGGGGCTGAGGGAGGAAAAGCCAGGAAACTGAGATCAGC AGAGGGAGCCAAGCATCAAAAAACAGGAGATGCTGAAGCTGCGATGACCAGCATCATTTT CTTAAGAGAACATTCAAGGATTTGTCATGATGGCTGGGCTTTCACTGGGTGTTAAGTCTA CAAACAGCACCTTCAATTGAAACTGTCAATTAAAGTTCTTAAGATTTAGGAAGTGGTGGA GCTTGGAAAGTTATGAGATTACAAAATTCCTGAAAGTCCATTAGAAAAACCACAGGATGA AAAAAAAAAAGGCCACAAAGAAGGCTTCAGAGGTCCCTGCTGGCCCAGGGACAGATACC TGTAGTGTCCAGCATTGCAGTGAACATGATCTACTTTCAAAGGCAG

Restriction Sites: Notl-Notl ACCN: NM 000801 **Insert Size:** 1630 bp

> 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

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube Components: containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

OTI Disclaimer:



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: <u>NM 000801.2</u>, <u>NP 000792.1</u>

RefSeq Size: 1578 bp
RefSeq ORF: 327 bp
Locus ID: 2280
UniProt ID: P62942
Cytogenetics: 20p13
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. The protein is a cis-trans prolyl isomerase that binds the immunosuppressants FK506 and rapamycin. It interacts with several intracellular signal transduction proteins including type I TGF-beta receptor. It also interacts with multiple intracellular calcium release channels, and coordinates multi-protein complex formation of the tetrameric skeletal muscle ryanodine receptor. In mouse, deletion of this homologous gene causes congenital heart disorder known as noncompaction of left ventricular myocardium. Multiple alternatively spliced variants, encoding the same protein, have been identified. The human genome contains five pseudogenes related to this gene, at least one of which is transcribed. [provided

by RefSeq, Sep 2008]

Transcript Variant: This variant (1, also known as 12B) represents the longest transcript and

encodes the longer isoform (a). Both variants 1 and 2 encode the same isoform (a).