

Product datasheet for **SC110896**

FKBP12 (FKBP1A) (NM_054014) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FKBP12 (FKBP1A) (NM_054014) Human Untagged Clone
Tag:	Tag Free
Symbol:	FKBP12
Synonyms:	FKBP-1A; FKBP-12; FKBP1; FKBP12; PKC12; PKC12; PPIASE
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110896 sequence for NM_054014 edited (data generated by NextGen Sequencing) ATGGGAGTGCAGGTGAAACCATCTCCCCAGGAGACGGGCGCACCTTCCCCAAGCGCGGC CAGACCTGCGTGGTGCACTACACCGGGATGCTTGAAGATGGAAAGAAATTTGATTCCTCC CGGGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGG GAAGAAGGGGTTGCCAGATGAGTGTGGGTGAGAGGCCAAACTGACTATATCTCCAGAT TATGCCTATGGTGCCACTGGGCACCCAGGCATCATCCCACCACATGCCACTCTCGTCTTC GATGTGGAGCTTCTAAAACCTGGAATGA Clone variation with respect to NM_054014.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_054014 unedited NGGTTCCGGGATTTTGTNATACGACTTACTATAGGGCGGCCGGAATTCGCACCAGCCGAG GTACTAGGCAGAGCCGTGGAACCGCCGGCAGGTCGCTGTTGGTCCACGCCGCCGTCGCG CCGCCCCCGCCGCTCAGCGTCCGCGCCGCCATGGGAGTGCAGGTGGAACCATCTCCCA GGAGACGGGCGCACCTTCCCAAGCGCGCCAGACCTGCGTGGTGCACACACCGGGATG CTTGAAGATGGAAGAAATTTGATTCTCTCCGGGACAGAAACAAGCCCTTTAAGTTTATG CTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGTTGCCAGATGAGTGTGGGT CAGAGAGCCAAACTGACTATATCTCCAGATTATGCCTATGGTGCCACTGGGCACCCAGGC ATCATCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAAAGTGAATGACAG GAATGGCCTCCTCCCTTAGCTCCCTGTTCTTGGGTAAGGAAATGGAATACTGAAGGGCCC TTCCTGCTTTGCTCCTCCCATGTTATGCCAGCGTTTATGGGTAGCAGAGAGAAACA AAAACACCACAAGGCTATTTTTCCCTGCATTCTTTCTGTATTGAGTATCCTTTCAGTG TTATTAGTGTATGCTTTGAATGAAAAATTGGTCACCCTAAGGAAAGGAATTGGCATGTG TATGTTCCAGTTCAACTCATGGAGATGGCAGCTGTTAAATGTTTTTCTATGTAGTTTA TAAATTAAGTGAATTGAGGACTATGGNAATGTANGCCAAATTTGTAGTGCCAACATTN TAGNNTCTTTGAAATAAGACTCTTAATGAATGACTNTGNTCTACCCTGTNGTTCTAGAA GCTAGAGGGGGGAAAAAAGCCCTTGATATGATACATGTCCTAGCTCTGCGGC
Restriction Sites:	NotI-NotI
ACCN:	NM_054014
Insert Size:	3750 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:	<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_054014.1 , NP_463460.1
RefSeq Size:	810 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 (2, also known as 12A) differs in the 3' UTR, compared to variant 1. Both variants 1 and 2 encode the same isoform (a).