

Product datasheet for **SC117569**

FKBP51 (FKBP5) (NM_004117) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FKBP51 (FKBP5) (NM_004117) Human Untagged Clone
Tag:	Tag Free
Symbol:	FKBP51
Synonyms:	AIG6; FKBP51; FKBP54; P54; PPIase; Ptg-10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117569 sequence for NM_004117 edited (data generated by NextGen Sequencing)

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ATGACTACTGATGAAGGTGCCAAGAACAATGAAGAAAGCCCCACAGCCACTGTTGCTGAG
CAGGGAGAGGATATTACCTCCAAAAAGACAGGGGAGTATTAAAGATTGTCAAAGAGTG
GGGAATGGTGAGGAAACGCCGATGATTGGAGACAAAGTTTATGTCCATTACAAAGGAAAA
TTGTCAAATGGAAAGAAGTTCGATTCCAGTCATGATAGAAATGAACATTTGTCTTTAGT
CTTGGCAAAGGCCAAGTCATCAAGGCATGGGACATTGGGGTGGCTACCATGAAGAAAGGA
GAGATATGCCATTTACTGTGCAAACCAGAATATGCATATGGCTCGCTGGCAGTCTCCCT
AAAATTCCTCGAATGCAACTCTCTTTTTGAGATTGAGCTCCTTGATTTCAAAGGAGAG
GATTTATTTGAAGATGGAGGCATTATCCGGAGAACCAAACGAAAGGAGAGGGATATTCA
AATCCAAACGAAGGAGCAACAGTAGAAATCCACCTGGAAGGCCGTGTGGTGGAAGGATG
TTTGACTGCAGAGATGTGGCATTCACTGTGGGCGAAGGAGAAGACCACGACATCCAATT
GGAATTGACAAAGCTCTGGAGAAAATGCAGCGGGAAGAACAATGATTTTTATATCTTGG
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CTTATATATGAAGTTACACTTAAGAGCTTCGAAAAGGCCAAAGAATCCTGGGAGATGGAT
ACCAAAGAAAAATTTGGAGCAGGCTGCCATTGTCAAAGAGAAGGGAACCGTATACTTCAAG
GGAGGCAAAATACATGCAGGCGGTGATTCAGTATGGGAAGATAGTGTCTGGTTAGAGATG
GAATATGGTTTATCAGAAAAGGAATCGAAAAGCTTCTGAATCATTTCTCCTTGCTGCCTTT
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GACAAGGCCCTTGGACTGGACAGTGCCAATGAGAAAGGCTTGTATAGGAGGGGTGAAGCC
CAGCTGCTCATGAACGAGTTTGAAGTCAAGCAAGGGTGACTTTGAGAAAGTGTGGAAGTA
AACCCCAAGAATAAGGCTGCAAGACTGCAGATCTCCATGTGCCAGAAAAAGGCCAAGGAG
CACAAAGAGCGGGACCGCAGGATATACGCCAACATGTTCAAGAAGTTTGCAGAGCAGGAT
GCCAAGGAAGAGGCCAATAAAGCAATGGGCAAGAAGACTTCAGAAGGGGTCACTAATGAA
AAAGGAACAGACAGTCAAGCAATGGAAGAAGAGAACCTGAGGGCCACGTATGA

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Clone variation with respect to NM_004117.3
 201 t=>c

5' Read Nucleotide Sequence: >OriGene 5' read for NM_004117 unedited

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GGNCGGCACGCGCAATTCGGCACGAGGCGCGCGGGCGGCGCTGCTGGGCGGGCTGAA
GGGTTAGCGGAGCACGGCAAGGCGGAGAGTGACGGAGTCGGCGAGCCCCGCGGCGACA
GGTTCTCTACTTAAAAGACAATGACTACTGATGAAGGTGCCAAGAACAATGAAGAAAGCC
CCACAGCCTCTGTTGCTGAGCAGGGAGAGGATATTACCTCCAAAAAGACAGGGGAGTAT
TAAAGATTGTCAAAGAGTGGGAATGGTGAGGAAACGCCGATGATTGGAGACAAAGTTT
ATGTCCATTACAAAGGAAAAATTTGTCAAATGGAAAGAAGTTCGATTCCAGTCATGATAGAA
ATGAACCATTTGTCTTTAGTCTTGGCAAAGGCCAAGTCATCAAGGCATGGGACATTGGGG
TGGCTACCATGAAGAAAGGAGAGATATGCCATTTACTGTCAAACCAGAATATGCATATG
GCTCGGCTGGCAGTCTCCCTAAAATTCCTCGAATGCAACTCTCTTTTTGAGATTGAGC
TCCTTGATTTCAAAGGAGAGGATTTATTTGAAGATGGAGGCATTATCCGGAGAACCAAAC
GGATAGGAGAGGGATATTCAAATCCAAACGAAGGAGCAACAGTAGAAATCCACCTGGAAT
GCCGCTGTGGTGAAGGATGTTTGACTGCAGAGATGTGGCATTCACTGTGGGCGATAGAG
AATGACCACGACATTCGAATTTGGAATTTGACAAGCTCTGGAGAAAATGCAGNCGGGNAG
AACAAATGATTTTTATATCTTGGACCAAGATATGGTTTTNAGAAGCAGGNAAGCCTTAAT
TTGGCATGGACCCTATGCTGAGCTATTTTGAAGTACACTTAAGACTTCGAAAAGCCAAA

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004117 unedited CTATGGCACGCGGCACGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTGGGAAGTACA TTTTTTTTGGATTTATTTAAAGAACACACAAAAAGTGCATCTAAATGATTTTTTTTTTT AAAAACAATGTCTTTAATTCCTCATATGCTGACTTGGCAATCCATATGCAGCCTAAAAG GTGGTTGAAAGATGTCTGTGGACTTCTACACAAATTGTTAAGATTATTGAATTTGATAC AAGAATACGTGAAGTGTCTTCTTGAGTGGTAATGGGCACCCTGTAGTTATTTGCTCAAAA CCACTCACACACCCTTCCCCTCCCACACACACTTTTGCCAGTTCCCCTGGTGAACCAT AATACACACGTGGGAGACAGCTGGCATCATCTGAGTCTTGAATAGCTTTCTTGTGTTGTT ATCTGCAAAAAGCTAGGTGGCCTTTTTAGTATCAAAATTTCAATCTGGCCTCACTGGAAC CATGCTCTACAGAGCTTTCCCAACAGTTTAGCAAGTAAGCAAAATCAGCTTTTGCTCTTC ATATTTGCTAGGTGAGACTGGGGCTTTTAAAAGAAATATTTCAAAAAAGACAAAAGCC TAAATGAGAAATTAGAGGGATTTAGTTATCATTAAAGGAAAAAACTCACAAATTGATCC CATTTGTTCCATGGGGAAGAAAAGTATTATAAAAGGAAATAAAGTATTTTAGGTTTGA AGGGGTCCCAATCTAATAATAAAAGTCTTTTGATAAAACCATCATCAAATAAAAACTA ATTTAAAATATAACTGCCAGTGTTTTTAAGATTTAAAAGGTGAGATGTTCCAGTTTA AAGCAATGGTNTCTTGGNNTGCANATGCATTCCATGAGTGTNTCTAAGCTGAGGAATA GAGAGCATGCTCATCTGTTTACCCTAGACTGNANTCACTACTGTACATTTAGACTTGC CTATTCATGTCACTCAGTACTGAGATT
Restriction Sites:	NotI-NotI
ACCN:	NM_004117
Insert Size:	3780 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:	<u>NM_004117.2</u> , <u>NP_004108.1</u>
RefSeq Size:	3781 bp
RefSeq ORF:	1374 bp
Locus ID:	2289
UniProt ID:	<u>Q13451</u>
Cytogenetics:	6p21.31
Domains:	FKBP, TPR

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 to the immunosuppressants FK506 and rapamycin. It is thought to mediate calcineurin inhibition. It also interacts functionally with mature hetero-oligomeric progesterone receptor complexes along with the 90 kDa heat shock protein and P23 protein. This gene has been found to have multiple polyadenylation sites. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2009]

Transcript Variant: This variant (1) represents the shortest transcript and encodes the longer isoform (1). Variants 1, 2 and 3 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.