

## Product datasheet for SC118889

### FKBP52 (FKBP4) (NM\_002014) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FKBP52 (FKBP4) (NM_002014) Human Untagged Clone
Tag:	Tag Free
Symbol:	FKBP52
Synonyms:	FKBP51; FKBP52; FKBP59; HBI; Hsp56; p52; PPlase
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118889 sequence for NM_002014 edited (data generated by NextGen Sequencing)

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ATGACAGCCGAGGAGATGAAGGCGACCGAGAGCGGGCGCAGTCGCGCCGCTGCCCATG
GAGGGAGTGGACATCAGCCCAAACAGGACGAAGGCGTGTGAAGGTCATCAAGAGAGAG
GGCACAGGTACAGAGATGCCCATGATTGGGGACCGAGTCTTTGTCCACTACACTGGCTGG
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CTCAAGCCAGCTATGCTTTTGGCAGTGTGGGAAAGGAAAAGTTCCAAATCCCACCAAAT
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CAGCTCTACCCCAACAACAAGCCGCAAGACCCAGCTGGCTGTGTGCCAGCAGCGGATC
CGAAGGCAGCTTGCCCGGAGAGAAGCTCTATGCCAATATGTTTGAAGGCTGGCTGAG
GAGGAGAACAAAGGCCAAGGCAGAGGCTTCTCAGGAGACCATCCCACTGACACAGAGATG
AAGGAGGAGCAGAAGAGCAACACGGCAGGGAGCCAGTCTCAGGTGGAGACAGAAGCATAG

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Clone variation with respect to NM\_002014.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_002014 unedited</p> <pre>GCTAGATTTTGTAAACGACTTACTATAGGGCGGCCGGAATTCGGCACGAGGCTCCCGG ATAAACGGCGCGCCGCGCGGAGATGACAGCCGAGGAGATGAAGGCGACCGAGAGCGGGG GCAGTCGGCGCCGCTGCCATGGAGGGAGTGGACATCAGCCCCAACAGGACGAAGGCGT GCTGAAGTTCATCAAGAGAGAGGGCACAGGTACAGAGATGCCCATGATTGGGGACCGAGT CTTTGTCCACTACACTGGCTGGCTATTAGATGGCACAAAGTTTGACTCCAGTCTGGATCG CAAGGACAAATTCTCCTTTGACCTGGGAAAAGGGGAGGTATCAAGGCTTGGGACATTGC CATAGCCACCATGAAGGTGGGGAGGTGTGCCACATCACCTGCAAACCAGAATATGCCTA CGGTTCCAGCAGGCAGTCTCCAAAGATTCCCCCAATGCCACGCTTGATTTGAGGTGGA GTTGTTTGAGTTAAGGGAGAAGATCTGACGGAAGAGGAAGATGGCGGAATCATTGCGAG AATACAGACTCGCGGTGAAGGCTATGCTAAGCCCAATGAGGGTGTATCGTGGAGTTGC ACTGGAAGGGTACTACAAGGACAAGCTCTNTGACCAGCGGGAGCTCCGCTTTGAGATTGG CGAGGGGAGAACCTGGATCTGCCTTATGGTCTGGAGAGGGCCATTGAGCGCATGGAGAA AGGGAGACATTCCATCGTGTACCTCAAGCCAGCTATGCTTTTGGCAGTNGTGGGAAGGAA AAGTTTCCAATCCCACCAATGCTGAGCTGAATATGAATTACACCTCAGAAGTTTAAAAAG CCCAGGAGTCTTGGGAGAATGATTCAGAAAAGAAAGCTGGAACAGNACCCATAGTGAAAAG ACGGGGCACTGTGTACTCCAGGGAAGGTAATACCAGCAAGCTTTACTANAGTATAGAAA GATCGG</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002014 unedited</p> <pre>GACCGCGCCGTTCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTCCACTTTATTGCT CAAGCATGGAAC TTGAGGCAAGCCTGGACCTTCAGCAACGTGCAGAGAAGAGGCTGAGGG GATTTTGGGACACAACCTGGCCGAGAGGGGAAACTGACAGGGGAAATACCAGAACAGGGA ACAGGGGGTGGTACCATTGACACCAGAAGACATCATCAGCCACACCGTCGGGGGTGAGGA AGGGAACAGAGAGAAGAAATGGCATAGCAGTGGTTTTTCCCATGTCCCTAGCACCCACAT GGAGGCCACATTTGAAAATGGACTGGGAGAGGGAAGGATGAGGAAAACGGCTGCCCAGG AGTCTCCCTCTCCACCCTGGGTTCTTATCAGACCTCATCCCTACCACTTGCCTTTTCTAC CCTTAGAAAAATGGACCTAACAGAGGGAGCAAAATAAATTAACATTCTGATGAATATATAT GGATGGACATATGTTTCATGTGCAATGGAAGGAAGGGAAGGGGCTGACACCATCAAAA TGATTTCCCAACCTAATCCCCCACCCTAAACCTTTTCCCCTTCCCCTTAAGCCCCCTT TCCCACCGTATGAAAATAAAAGGGGTTCAATTCCTCCAAATTTTTCAATTTTTTCAAAAA AACCCAGGCTGAACGGGAATCTGGGGCCAGCACCCCCCAAATAGGCCTTTGGAAAGA GGTTTTCTTTTTTCCCCCCCCCTAAAAAGGTCCCCGCCCGGAGCGCTCTTTCGGTCCCT CTTTTCTTTACGGCCCATGGTGTCTTCTAGAACTATCTTCTCCCCTCTTTTCTT CCCTCCACCCCCCTCAAAAAATTGTGAAAAATCTTCTTCTCCCACCCATCTCTTCT TTTCATTACGGCTCC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002014
<b>Insert Size:</b>	2250 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_002014.2](#), [NP\\_002005.1](#)

**RefSeq Size:** 2251 bp

**RefSeq ORF:** 1380 bp

**Locus ID:** 2288

**UniProt ID:** [Q02790](#)

**Cytogenetics:** 12p13.33

**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 has high structural and functional similarity to FK506-binding protein 1A (FKBP1A), but unlike FKBP1A, this protein does not have immunosuppressant activity when complexed with FK506. It interacts with interferon regulatory factor-4 and plays an important role in immunoregulatory gene expression in B and T lymphocytes. This encoded protein is known to associate with phytanoyl-CoA alpha-hydroxylase. It can also associate with two heat shock proteins (hsp90 and hsp70) and thus may play a role in the intracellular trafficking of hetero-oligomeric forms of the steroid hormone receptors. This protein correlates strongly with adeno-associated virus type 2 vectors (AAV) resulting in a significant increase in AAV-mediated transgene expression in human cell lines. Thus this encoded protein is thought to have important implications for the optimal use of AAV vectors in human gene therapy. The human genome contains several non-transcribed pseudogenes similar to this gene. [provided by RefSeq, Sep 2008]