

Product datasheet for **RC227059**

FKBP51 (FKBP5) (NM_001145777) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FKBP51 (FKBP5) (NM_001145777) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FKBP51
Synonyms: AIG6; FKBP51; FKBP54; P54; PPIase; Ptg-10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC227059 representing NM_001145777
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTACTGATGAAGGTGCCAAGAACAATGAAGAAAGCCCCACAGCCACTGTTGCTGAGCAGGGAGAGG
 ATATTACCTCCAAAAAGACAGGGGAGTATTAAGATTGTCAAAGAGTGGGGAATGGTGAAGAAACGCC
 GATGATTGGAGACAAAGTTTATGTCCATTACAAAGGAAAATTGTCAAATGGAAAGAAGTTTGATTCCAGT
 CATGATAGAAATGAACATTTGTCTTTAGTCTTGGCAAAGCCAAGTCATCAAGGCATGGGACATTTGGG
 TGGCTACCATGAAGAAAGGAGAGATATGCCATTTACTGTGCAAACCAGAATATGCATATGGCTCGGCTGG
 CAGTCTCCCTAAAATCCCTCGAATGCAACTCTCTTTTTGAGATTGAGCTCCTTGATTTCAAAGGAGAG
 GATTTATTTGAAGATGGAGGCATTATCCGGAGAACCAAACGAAAGGAGAGGGATATTCAAATCCAAACG
 AAGGAGCAACAGTAGAAATCCACCTGGAAGGCCGCTGTGGTGAAGGATGTTTACTGCAGAGATGTGGC
 ATTCACCTGTGGGCGAAGGAGAAGACCACGACATTTCAATTGGAATTGACAAAGCTCTGGAGAAAAATGCAG
 CGGGAAGAACAATGTATTTTATCTTGGACCAAGGCCAAAGAATCCTGGGAGATGGATACCAAAGAAAA
 ATTGGAGCAGGCTGCCATTGTCAAAGAGAAGGGAACCGTATACTTCAAGGTGTGTGAGTCCCTATGCAAT
 CCTTTCCATCTCAAAGAATTTATTCAAGTGTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC227059 representing NM_001145777
Red=Cloning site Green=Tags(s)

MTTDEGAKNNEESPTATVAEQGEDITSKKDRGVLKIVKRVNGEETPMIGDKVYVHYKGLSNGKKFDSS
 HDRNEPFVFSLGKGOVIKAWDIGVATMKKGEICHLLCKPEYAYGSAGSLPKIPSNATLFFEIELLDFKGE
 DLFEDGGIIRRTKRKGEYSNPNEGATVEIHLEGRCCGRMFDCRDVAFTVGEDEDHDIPIGIDKALEKMQ
 REEQCILYLGPRPKNPGRWIPKKNWSRLPLSKRREPYTSRCVSPYAILSISKNFLKCV

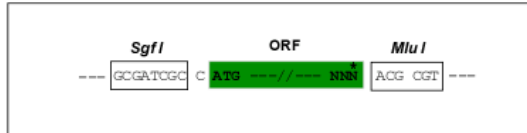
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8048_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001145777

ORF Size: 804 bp

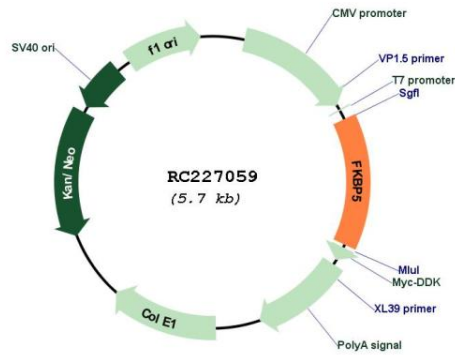
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

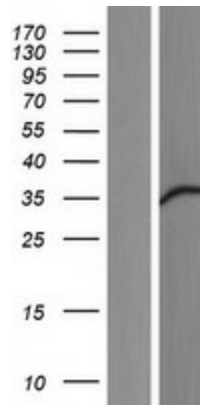
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001145777.1</u> , <u>NP_001139249.1</u>
RefSeq ORF:	807 bp
Locus ID:	2289
UniProt ID:	<u>Q13451</u>
Cytogenetics:	6p21.31
Protein Families:	Druggable Genome
MW:	29.9 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for RC227059



Western blot validation of overexpression lysate (Cat# [LY429004]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227059 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).