

## Product datasheet for **MR227877**

### **Fkbp1a (NM\_001302077) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fkbp1a (NM\_001302077) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Fkbp1a  
**Synonyms:** Fkb; Fkbp; Fkbp1; FKBP12  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR227877 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGAGTGCAGGTGGAGACCATCTCTCCTGGAGACGGGCGCACCTTCCCAAAGCGCGGCCAGACCTGCG  
 TGGTGCCTACACGGGGATGCTTGAAGATGAAAGAAATTTGATTCCTCTCGGGACAGAAACAAGCCTTT  
 TAAGTTTACACTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAGGAAGGGGTAGCCAGATGAGTGTGGGT  
 CAGAGAGCCAAACTGATAATCTCCTCAGACTATGCCTATGGAGCCACCGGGCACCCAGGCATCATCCAC  
 CACATGCCACTCTGTTTTGATGTGGAGCTTCTAAAAGTGGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR227877 protein sequence  
 Red=Cloning site Green=Tags(s)  
 MGVQVETIISPGDGRTPFKRGQTCVVHYTGMLLEDGKKFDSSRDNRNPKFKFTLGKQEVIRGWEEGVAQMSVG  
 QRAKLIISDYAYGATGHPGIIPPHATLVFDVELLKLE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001302077

**ORF Size:** 327 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:**
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\\_001302077.1](#), [NP\\_001289006.1](#)

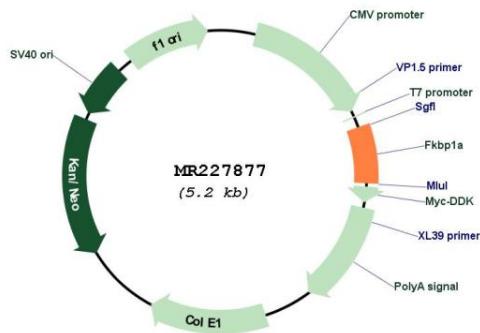
**RefSeq Size:** 1663 bp

**RefSeq ORF:** 327 bp

**Locus ID:** 14225  
**UniProt ID:** [P26883](#)  
**Cytogenetics:** 2 G3  
**MW:** 11.9 kDa

**Gene Summary:** This gene is a member of the immunophilin family. The encoded protein is a cis-trans prolyl isomerase that binds the immunosuppressants FK506 and rapamycin, and is associated with immunoregulation, protein folding, receptor signaling, protein trafficking and T-cell activation. It may modulate the calcium release activity of the ryanodine receptor Ryr1. It also interacts with the type I TGF-beta receptor. Disruption of this gene in mouse causes severe ventricular defects. Pseudogenes of this gene have been defined on chromosomes 4, 10, 14, and 16. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]

### Product images:



Circular map for MR227877