

Product datasheet for **RN214469**

Fkbp6 (NM_001105922) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fkbp6 (NM_001105922) Rat Untagged Clone
Tag: Tag Free
Symbol: Fkbp6
Synonyms: FKBP-36; PPIase
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN214469 representing NM_001105922
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGTGTCTTCGCGCCTCAGGAACGGAATCCCACCGTCGCGAGACGACTGCCAGTCTCCCTATGAGC
GATTAAGTCAACGCATGTTGGACATTTCTGGGACCGAGGTGTGCTGAAAGATATCATCCGCGAGGGCGC
TGGCGATCCTGTGACACCTGACGCTTCTGTGCTGGTAAATACTCTGGATACCTGGAGCACATGGATAAG
CCTTTGACTCCAATTGCTTTAGGAAAACCCCTCGGCTGATGAAACTTGGAGAAGATATTACACTCTGGG
GCATGGAGCTGGGCTTCTAAGCATGCGCAGAGGGGAACTGGCCAGGTTCTGTTCAAGCCAACCTATGC
TTATGGTACCCTGGGGTGCCTCCCTCATCCCTCCAAATGCCACTGTCCTGTTGAGATCGAGCTGATT
GACTTCTGGACTCTGCCGAGTCGGACAAGTTTTGTGCACTCTCAGCTGAGCAGCAAGAACAGTTTCCAC
TCCAGAAAGTCTCAAGGTAGCGGCAACCGAGAGGGAGTTTGGCAACTACCTTTCCGCCAGAATCGCTT
CTGTGATGCCAAAGTGAGATAACAAGCGGGCCTTGTGCTGCCATCGACGCTTGGCCATCTGTGAGGAG
CAGCACTTGGTAGAACCTGCTGAGCTCCTAGTCCTTAACCTTTCATTTGTGTACCTGAAGCTAGACC
GCCCTGCTATGGCCCTGCGCTATGGGAGCAGGCTCTGCTCATTGACAAAAGCAAGCCAAAGCCCTCTT
CAGGTGTGGACAGGCTTGCCTCCTGACCGAGTATGAGCAGGCTCGGGACTTTCTAGTGAGAGCTCAG
AAGGAGCAGCCCTGTAACCATGACATCAATAATGAGCTGAAGAAGCTGTCCAGCCACTACAGGGACTATG
TGGACAGAGAGAGAGATGTGTCACCGGATGTTTGTCCCTGTGGAAGCGGCTCTTCAGTGGGAGGAAA
CTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001105922



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Insert Size:	984 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_001105922.1</u> , <u>NP_001099392.1</u>
RefSeq Size:	1385 bp
RefSeq ORF:	984 bp
Locus ID:	288597
UniProt ID:	<u>D3ZQF4</u>
Cytogenetics:	12q12
Gene Summary:	Co-chaperone required during spermatogenesis to repress transposable elements and prevent their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and govern the methylation and subsequent repression of transposons. Acts as a co-chaperone via its interaction with HSP90 and is required for the piRNA amplification process, the secondary piRNA biogenesis. May be required together with HSP90 in removal of 16 nucleotide ping-pong by-products from Piwi complexes, possibly facilitating turnover of Piwi complexes (By similarity). [UniProtKB/Swiss-Prot Function]