

Product datasheet for RC207712

FKBP6 (NM_003602) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FKBP6 (NM_003602) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FKBP6
Synonyms:	FKBP36
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207712 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGAAGCGGTTAAACCAGGGAGTCTGGAAGGGGACGACGCCCCGGCCAGTCCCTGTACGAGC
GGTTAAGTCAGAGGATGCTGGACATCTCGGGGACCGGGCGTGTGAAGGACGTCATCCGAGAAGGAGC
TGGAGACCTAGTGGCGCTGATGCTTCGGTCTAGTGAATACTCGGGTACCTGGAACACATGGACAGA
CCCTTCGATTCTAATTACTTTAGGAAAACCTCTCGGCTAATGAACTTGGAGAGGATATTACACTGTGGG
GCATGGAGCTGGCCTTCTGAGCATGCGGAGAGGAGAGCTGGCCAGGTTTCTGTTCAAACCGAACTACGC
CTATGGAACGCTGGGCTGCCCTCCCTTGATCCCCCAAACACCACTGTCCCTGTTTGAAGATTGAGCTGCTT
GACTTCCTGGACTGTGCTGAGTCAGACAAGTTTTGTGCTCTCTCAGCTGAGCAGCAAGACCAATTTCCAC
TTCAGAAGGTCCTGAAAGTGGCAGCTACGGAACGGGAGTTTGGCAACTACTTTTCCGCCAGAATCGTTT
CTATGATGCCAAAGTGAGATATAAAAGGGCCCTGTTGCTTCTGCGCCGGCGATCAGCACCCCTGAAGAG
CAGCACCTGGTGGAGGCCGCAAGCTTCTGTTCTCCTGAACCTGTCTTACATACCTGAAGCTAGACC
GACCCACCATAGCCCTGTGCTATGGAGAGCAGGCTTTGATCATTGACCAAAGAATGCCAAGGCCCTCTT
CAGGTGTGGACAGGCTTGTCTTCTCCTGACTGAGTATCAAAGGCCCGGGATTTCTAGTTCGAGCCCAG
AAGGAGCAACCCTTCAATCATGACATCAATAATGAGCTGAAGAACTGGCTAGCTGTTACAGGACTATG
TGGATAAAGAGAAAGAAATGTGGCACCGCATGTTGCGCCCTGTGGCGATGGTTCTACAGCAGGAGAAAG
T

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207712 protein sequence
Red=Cloning site Green=Tags(s)

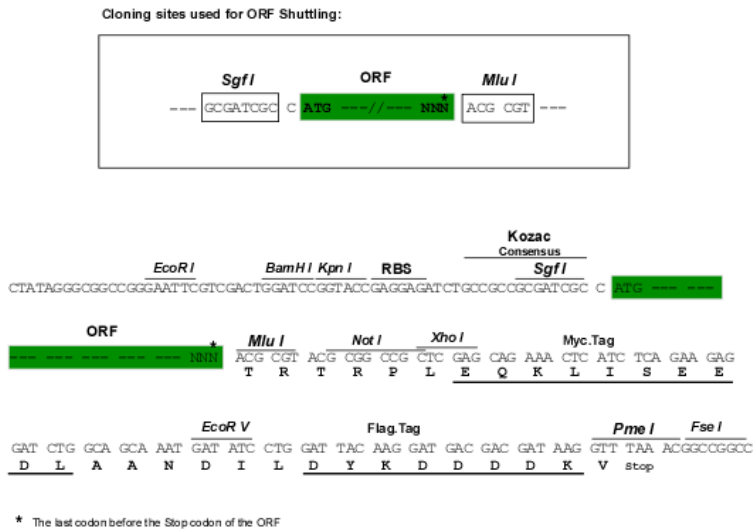
MGGSALNQGVLGGDDAPGQSLYERLSQRMLDISGDRGVLKDVIREGAGDLVAPDASVLVKYSGYLEHMDR
 PFDSNYFRKTPRLMKLGEDITLWGMELGLLSMRRGELARFLFKPNYAYGTLCGPPLIPPNTTVLFEIELL
 DFLDCAESDKFCALSAEQDQFPLQKVLKVAATEREFGNYLFRQNRFYDAKVRYKRALLLRSSAPPEE
 QHLVEAAKLPVLLNLSFTYLKLD RPTIALCYGEQALIIDQKNAKALFRCGQAACLLL TEYQKARDFLVRAQ
 KEQPFNHDIINNELKKLASCYRDYVDKEKEMWHRMFAPCGDGSTAGES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6337_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003602

ORF Size: 981 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_003602.3](#)

RefSeq Size: 1640 bp

RefSeq ORF: 984 bp

Locus ID: 8468

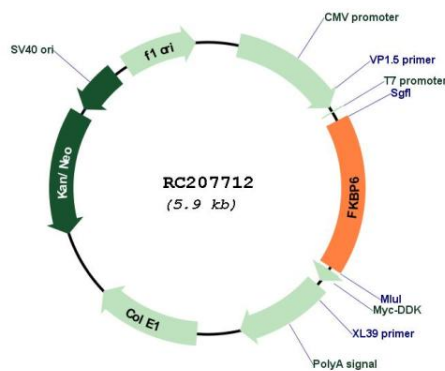
UniProt ID: [O75344](#)

Cytogenetics: 7q11.23

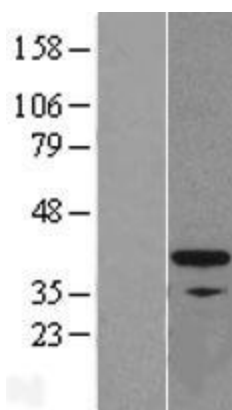
MW: 37.2 kDa

Gene Summary: The protein encoded by this gene is a cis-trans peptidyl-prolyl isomerase that may function in immunoregulation and basic cellular processes involving protein folding and trafficking. This gene is located in a chromosomal region that is deleted in Williams-Beuren syndrome. Defects in this gene may cause male infertility. There are multiple pseudogenes for this gene located nearby on chromosome 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

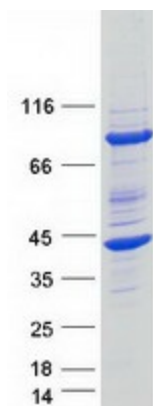
Product images:



Circular map for RC207712



Western blot validation of overexpression lysate (Cat# [LY418553]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207712 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FKBP6 protein (Cat# [TP307712]). The protein was produced from HEK293T cells transfected with FKBP6 cDNA clone (Cat# RC207712) using MegaTran 2.0 (Cat# [TT210002]).