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Product datasheet for RC225466

FKBP6 (NM_001135211) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FKBP6 (NM_001135211) 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:

```
>RC225466 representing NM_001135211
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGCCTCCTCGTGGCCCCAGAATGGAATGCCGCCGTCGTCCCTGTACGAGCGGTTAAGTCAGAGGA
TGCTGGACATCTCGGGGGACCGGGGCGTGCTGAAGGACGTCATCCGAGAAGGAGCTGGAGACCTAGTGGC
GCCTGATGCTTCGGTGCTAGTGAAATACTCGGGATACCTGGAACACATGGACAGACCCTTCGATTCTAAT
TACTTTAGGAAAACTCCTCGGCTAATGAAACTTGGAGAGGATATTACACTGTGGGGCATGGAGCTGGGCC
TTCTGAGCATGCGGAGAGGAGAGCTGGCCAGGTTTCTGTTCAAACCGAACTACGCCTATGGAACGCTGGG
CTGCCCTCCCTTGATCCCCCCAAACACCACTGTCCTGTTTGAGATTGAGCTGCTTGACTTCCTGGACTGT
GCTGAGTCAGACAAGTTTTGTGCTCTCTCAGCTGAGCAGCAAGACCAATTTCCACTTCAGAAGGTCCTGA
AAGTGGCAGCTACGGAACGGGAGTTTGGCAACTACCTTTTCCGCCAGAATCGTTTCTATGATGCCAAAGT
GAGATATAAAAGGGCCCTGTTGCTTCTGCGCCGGCGATCAGCACCCCCTGAAGAGCAGCACCTGGTGGAG
GCCGCCAAGCTTCCTGTTCTCCTGAACCTGTCCTTTACATACCTGAAGCTAGACCGACCCACCATAGCCC
TGTGCTATGGAGAGCAGGCTTTGATCATTGACCAAAAGAATGCCAAGGCCCTCTTCAGGTGTGGACAGGC
TTGTCTTCTCCTGACTGAGTATCAAAAGGCCCGGGATTTTCTAGTTCGAGCCCAGAAGGAGCAACCCTTC
AATCATGACATCAATAATGAGCTGAAGAAACTGGCTAGCTGTTACAGGGACTATGTGGATAAAGAGAAAG
AAATGTGGCACCGCATGTTCGCGCCCTGTGGCGATGGTTCTACAGCAGGAGAAAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

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Protein Sequence:

```
>RC225466 representing NM_001135211
Red=Cloning site Green=Tags(s)

MSASSWPQNGMPPSSLYERLSQRMLDISGDRGVLKDVIREGAGDLVAPDASVLVKYSGYLEHMDRPFDSN
YFRKTPRLMKLGEDITLWGMELGLLSMRRGELARFLFKPNYAYGTLGCPPLIPPNTTVLFEIELLDFLDC
AESDKFCALSAEQQDQFPLQKVLKVAATEREFGNYLFRQNRFYDAKVRYKRALLLLRRRSAPPEEQHLVE
AAKLPVLLNLSFTYLKLDRPTIALCYGEQALIIDQKNAKALFRCGQACLLLTEYQKARDFLVRAQKEQPF
NHDINNELKKLASCYRDYVDKEKEMWHRMFAPCGDGSTAGES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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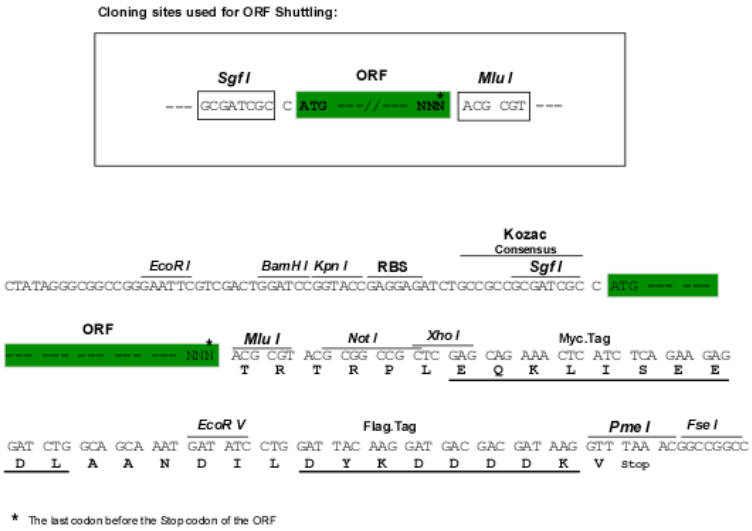
Chromatograms: https://cdn.origene.com/chromatograms/mk8052_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135211

ORF Size: 966 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).

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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001135211.1, NP_001128683.1

RefSeq ORF: 969 bp

Locus ID: 8468

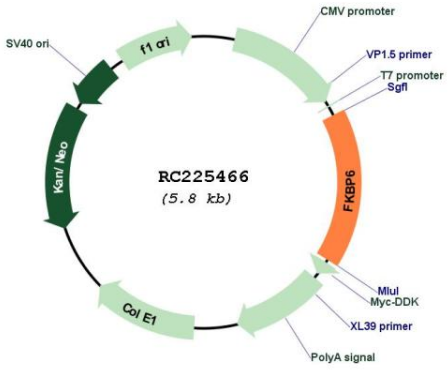
UniProt ID: O75344

Cytogenetics: 7q11.23

MW: 36.7 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 RC225466

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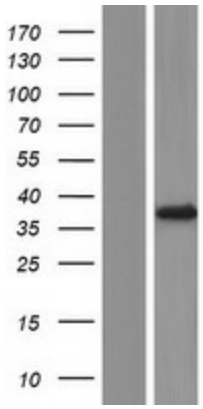

Western blot validation of overexpression lysate (Cat# [LY427592]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225466 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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