

Product datasheet for **RR209469**

Fbxw5 (NM_001025730) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxw5 (NM_001025730) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fbxw5
Synonyms:	MGC116348
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR209469 representing NM_001025730
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGATGAGGGGGCATGCCCTGCTCCCCGACAGCCTGGTCTACCAGATCTTCCTGAGCTTGGCCCTG
 CAGATGTGCTGGCTGCTGGGCTGGTGTGCCGCCAGTGGCAGGCTGTCTCCCGGGACGAGTTCCTATGGAG
 GGAGCAGTTCTACCGCTACTACCAGGTGGCTCGCGATGTGCCCGGCCACCCAGCGGCCACATCCTGGTAT
 GAGGAGTTCGGCGGCTCTATGACATGGTGCCCTGTGTGGAGGTGCAGACACTGAAGGAGCACACCGACC
 AGGTCTGCACCTCAGCTTCTCCCACTCGGGGTACCAAGTTTGCCTCCTGCTCCAAGGACTGCACAGTGAA
 GATCTGGAACAATGACCTGACCATCTCTGCTGCACAGTGCAGATATGAGGCCATACACTGGAGTTAC
 ACCCAGTTCTCCAGTTCAACCAGGATGACTCACTGTTGCTGGCCTCGGGGTGTTCTAGGGCCACATA
 ACTCCTCCTCAGGCGAGATAGTGTATCAGCTTAGACTCCTTCGCCCTGCTGTGCGGTGTGCGAAACAA
 GCCCTATGATGTGTTTGGCTGTGGCTCACAGAAACAGCCTCATCTCGGGAACCTGCACCGCATTGGA
 GATGTACCTCCTGCTCAGTGTGTGGCTCAACAATGCCTTCAGGATGTGGAGTCAGAGAACGTCACCG
 TGGTAAAGCGGCTCTTTAAGATCCAGAACCTCAATGCCAGCACCATCCGACCGTGATGGTGGCTGACTG
 CAGCCGCTTTGATAGCCCGGACCTCCTGCTGGATGCTGGTGACCAGGCTGGGCTCCCTGCCGAGTCTTT
 GACCTAGTGAGGGGACACTGAAGAAGAGGCCACTGACCCAGGTTTGACACCTCTGGTTCTGGCCATGTCA
 AGGAAGGTTTACGGCGTGTGTTTATAGCGTCTGGATGGACATGGACAGCTGTGAGATTGTGCACTGGA
 GACCAAGTGGCTGAGTGTGCGCCAGGGCCACCAAGCCCCAGAGTGTCTGACGCTGACAGCAGG
 AACCAAGTACCTCATCTTCACTGCTGCCTCAGTACTCACCTCATCAGATCGGCATCAAGCAGATCC
 TGCCGCACAGATGACAACTGCAGGGCCGCTGGGCGAGGGCCGGGGCTCTGATGCCTTCTTTGATGC
 CTTGGACCATGTCAATTGATGTGCATGGGCACATCATTGGCATGGGCTGTCTCCCGATAACAGGTACCTG
 TATGTGAATAGCGTGCCTGGCCCCCTGGCTCAGTGGTGCCGACCCCATGCAGCCACCACCCATTGCAG
 AGGAGATTGACTTGTGTTGTTGATCTGAAGACCATGCGGGAGGTGAAGCGAGCTCTGCGAGCACACCG
 TGCCTACACACCAATGATGAGTGCTTCTTCATCTTCTGGATGTCAGCAGGGATTTTGTGGCCAGTGGG
 GCTGAAGATCGGCATGGCTATATCTGGGACCGCCACTACAACATCTGCCTAGCCAAGCTGCGGCATGAGG
 ATGTGGTCAACTCAGTGGCCTTAGCCCCAGGAGCAGGAGCTCTTGTGACAGCCAGCGATGATGCCAC
 TATCAAAGCCTGGCGCTCACCACGATTGTTCTGTCTGCAGGCTCCACACCCACGCCACGCCCTTC
 TTCTCCTGGTTGCCAGCCATAGGCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR209469 representing NM_001025730
 Red=Cloning site Green=Tags(s)

MDEGGMPLLPDSL VYQIFLSLGPADVLAAGLVCRQWQAVSRDEF LWREQFYRYQVARDVPRHPAATSWY
 EEFRL YDMVPCVEVQTLKEHTDQVLHLSFSHSGYQFASCSKDCTVKIWNNDLTISLLHSADMRPYNWSY
 TQFSQFNQDSSLASGVFLGPHNSSSGEIAVISLDSFALLSRVRNKPVDVFGWL TETSLISGNLHRIG
 DVTSCSVLWLNNAFQDVESENVNVKRLFKIQNLNASTIRTVMVADCSRFDSPDLLLDAGDQAGLPCR VF
 DLGGDTEEEATDPLHTSGSGHVKEGLRRVFDVLDGHGQLSDCALETKVAELLAQGH TKPPEC PDADSR
 NKYLIFTTGCLTYS PHQIGIKQILPHQMTTAGPVLGEGRGS DAFFDALDHVIDVHGHIIGMGLSPDNRYL
 YVNSRAWPPG SVVADPMQPPPIAEEIDLLVFDLKTMRVKRALRAH RAYTPNDECFIFLDVSRDFVASG
 AEDRHGYI WDRHYNICLAKLRHEDVVNSVAFSPQE QELLLTASDDATIKAWRSPRIVRVLQAPHPRPRPF
 FSWFASHRR

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001025730

ORF Size: 1707 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_001025730.2](#), [NP_001020901.1](#)

RefSeq Size: 2345 bp

RefSeq ORF: 1710 bp

Locus ID: 362081

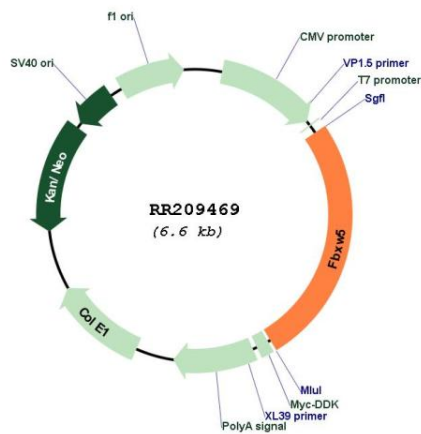
UniProt ID: [Q4KLI9](#)

Cytogenetics: 3p13

MW: 64 kDa

Gene Summary: Substrate recognition component of both SCF (SKP1-CUL1-F-box protein) and DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complexes. Substrate recognition component of the SCF(FBXW5) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of SASS6 during S phase, leading to prevent centriole reduplication. The SCF(FBXW5) complex also mediates ubiquitination and degradation of actin-regulator EPS8 during G2 phase, leading to the transient degradation of EPS8 and subsequent cell shape changes required to allow mitotic progression. Substrate-specific adapter of the DCX(FBXW5) E3 ubiquitin-protein ligase complex which mediates the polyubiquitination and subsequent degradation of TSC2. May also act as a negative regulator of MAP3K7/TAK1 signaling in the interleukin-1B (IL1B) signaling pathway (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR209469