

Product datasheet for **RR208990**

Fbxo31 (NM_001044259) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxo31 (NM_001044259) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fbxo31
Synonyms:	RGD1561069
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR208990 representing NM_001044259
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGTGTGTGCTCGCTCTGCGGCGTGGGCCCGCGCGTGGGTGCCGCCGCCAGCAGCGCCGG
 GCCCGGCCGAGACTGCGGCGGCGGACAGTGAGGCGGACACGGACCCGAGGAGGAGCGCATCGAGGCGGG
 GCCGGCGCGTTGCTCCCTGCTGGAGCTGCCTCCGAGCTGCTAGTGGAGATCTTCGCGTCTGCTGCCCGG
 ACCGACCTGCCAGCCTGGCGCAGGTCTGCAGCAGTTCCGTGCGATCCTGCACACCGACACCATCTGGA
 GAAGGCGTGCCTGCGAGGAGTATGGCGTTTGTGAGAACCTGCGGAAGCTGGAGATCACAGGCGTGTCTTG
 CCGGGACGTCTATGCCAAGCTGCTTACCAGGTACAGACACATTTTGGGGTGTGGCAGCCAGATATTGGG
 CCGTATGGAGGATTGCTGAACGTCGTGGTGGATGGACTTTCATCATCGGGTGGATGTACCTGCCTCCTC
 ATGACCCACGTTGGCAGCCCATGCGATTCAAGCCCTATTTAGGATCCATCTGATGGAGAGGAAGTC
 GGCCACGTTGGAGTGTATGTACGGCCACAAAGGGCCCCACAATGGCCATATCCAGATTGTGAAGAGGGAT
 GAGTTCTCCACCAAGTGTAAACCAGACAGATCACCACAGGATGTCTGGTGGGAGGCAGGAGGATTTCCGA
 CGTGGCTGAGGGAGGAGTGGGGCCGACGCTGGAAGACATCTTCCACGAGCACATGCAGGAGCTGATTCT
 GATGAAGTTTATCTACACCAGTCAGTACGACAACCTGCCTGACCTACCGGCGGATCTACCTCCCTCCAGC
 CACCCGATGACCTCATCAAGCTGGCCTCTTTAAGGGCACCTACGGCAGCCATGGGCTGGAAATCGTGA
 TGCTTAGCTTCCACGGCTCTCGTGCCAGGGGACCAAGATCACGGGCGACCCCAACATCCCGCGGGGCA
 GCAGACTGTGGAGATTGACCTGCAGCGCCGATCCAGCTGCCAGACGTGGAGAACCTCCGAAACTTCAAT
 GAGCTCTCCAGGATCGTCTGGAGTCCGGGAGCAGGTGCGGCAGGAGCAGGAGGCTGGCAGGGCCCGG
 CTCCACACCGGGAGCCTGCAGTCAAGGACCTGAAGGGCCACCTGCTAAGGCCAGCAAAGAGCCGGCC
 TGGAGCTGAGGCCGCTGAGCAGTATCCAGCTCTGGGCAGGGACAGCCGTTTGTGCTTCCCTGCGGGTGC
 AGCTCGAGGAATGAGGATTACCCCGCACCTGCCGTTATGTTTCTATGGCACAGGCCTCATCGCTGGCC
 ATGGCTTACGAGCCCGAGCGTACCCCGCGCTTCTGCTCTGTCGATGAGGACCGCTTTGGGTTTCT
 CTGGCTGGAAGTGAAGTCTTCACTGTGTACAGCCGAGTCCAGGCCACCTTCCAGAACGCCGACGCACCA
 TCGCCACAGGCCCTTCGATGAGATGCTCAGGAACATCCAGTCTCTCACCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208990 representing NM_001044259
 Red=Cloning site Green=Tags(s)

MAVCARLCGVGPARGCRRRQRRGPAETAADSEADTDPEEERIEAGPARCSLLELPPELLVEIFASLPG
 TDLP SLAQVCSRFRILHTDIWRRRCREEYGVNENLRKLEITGVSCRDVYAKLLHRYRHILGLWQPDIG
 PYGLLNVVVDGLFIIGWMYLPPHDPHVGDPMRFKPLFRIHLMERKSATVECMYGHKGPHNGHIQIVKRD
 EFSTKCNQTDHHRMSSGRQEEFRTWLREEWGRTLEDIFHEHMQLILMKFIYTSQYDNCLTYRRIYLPSS
 HPDDLKIPGLFKGTYGSHGLEIVMLSFHGSRRGRTKITGDPNIPAGQQTVEIDLQRRIQLPDVENLRNFN
 ELSRIVLEVREQVRQEAGEGPAHREP AVKDPEGPPAKASKEAGPGAEEAQSSTSGQGQPFVLPAGV
 SSRNEDYPRTCRLCFYGTGLIAGHGFTSPERTPGVFVLFDEDRFGFLWLELKSFLYSRVQATFQNDAP
 SPQAFDEMLRNIQSLTS

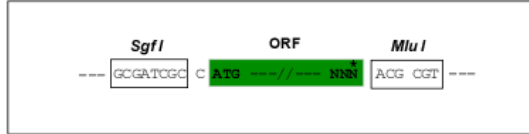
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

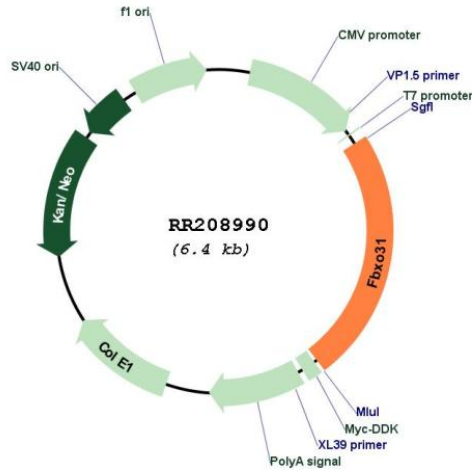
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001044259

ORF Size: 1521 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:	<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_001044259.2</u> , <u>NP_001037724.2</u>
RefSeq Size:	1775 bp
RefSeq ORF:	1524 bp
Locus ID:	498959
UniProt ID:	<u>B2RYN2</u>
Cytogenetics:	19q12
MW:	57.4 kDa
Gene Summary:	Component of some SCF (SKP1-cullin-F-box) protein ligase complex that plays a central role in G1 arrest following DNA damage. Specifically recognizes phosphorylated cyclin-D1 (CCND1), promoting its ubiquitination and degradation by the proteasome, resulting in G1 arrest (By similarity).[UniProtKB/Swiss-Prot Function]