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Product datasheet for RC208029

FBXO22 (NM_147188) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FBXO22 (NM_147188) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FBXO22
Synonyms:	FBX22; FISTC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208029 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCCGGTAGGCTGCTGCGGCGAGTGCCGCGGCTCCTCCGTAGACCCGCGGAGCACCTTCGTGTTGA
GTAACCTGGCGGAGGTGGTGGAGCGTGTGCTCACCTTCCTGCCCGCCAAGGCGTTGCTGCGGGTGGCCTG
CGTGTGCCGCTTATGGAGGGAGTGTGTGCGCAGAGTATTGCGGACCCATCGGAGCGTAACCTGGATCTCC
GCAGGCCTGGCGGAGGCCGGCCACCTGGAGGGGCATTGCTTGGTTCGCGTGGTAGCAGAGGAGCTTGAGA
ATGTTCGCATCTTACCACATACAGTTCTTTACATGGCTGATTCAGAAACTTTCATTAGTCTGGAAGAGTG
TCGTGGCCATAAGAGAGCAAGGAAAAGAACTAGTATGGAAACAGCACTTGCCCTTGAGAAGCTATTCCCC
AAACAATGCCAAGTCCTTGGGATTGTGACCCCAGGAATTGTAGTGACTCCAATGGGATCAGGTAGCAATC
GACCTCAGGAAATAGAAATTGGAGAATCTGGTTTTGCTTTATTATTCCCTCAAATTGAAGGAATAAAAAT
ACAACCCTTTCATTTTATTAAGGATCCAAAGAATTTAACATTAGAAAGACATCAACTCACTGAAGTAGGT
CTTTTAGATAACCCTGAACTTCGTGTGGTCCTTGTCTTTGGTTATAATTGCTGTAAGGTGGGAGCCAGTA
ATTATCTGCAGCAAGTAGTCAGCACTTTCAGTGATATGAATATCATCTTGGCTGGAGGCCAGGTGGACAA
CCTGTCATCACTGACTTCTGAAAAGAACCCTCTGGATATTGATGCCTCGGGTGTGGTTGGACTGTCATTT
AGTGGACACCGAATCCAGAGTGCCACTGTGCTCCTCAACGAGGACGTCAGTGATGAGAAGACTGCTGAGG
CTGCGATGCAGCGCCTCAAAGCGGCCAACATTCCAGAGCATAACACCATTGGCTTCATGTTTGCATGCGT
TGGCAGGGGCTTTCAGTATTACAGAGCCAAGGGGAATGTTGAGGCTGATGCATTTAGAAAGTTTTTTCCT
AGTGTTCCCTTATTCGGCTTCTTTGGAAATGGAGAAATTGGATGTGATCGGATAGTCACTGGGAACTTTA
TATTGAGGAAATGTAATGAGGTAAAAGATGATGATCTGTTTCATAGCTATACAACAATAATGGCACTCAT
ACATCTGGGGTCATCTAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC208029 protein sequence
Red=Cloning site Green=Tags(s)

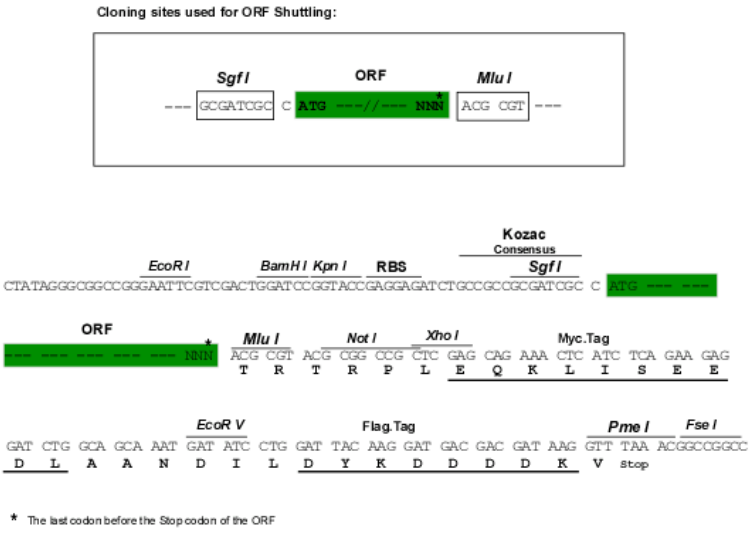
MEPVGCCGECRGSSVDPRSTFVLSNLAEVVERVLTFLPAKALLRVACVCRLWRECVRRVLRTHRSVTWIS
AGLAEAGHLEGHCLVRVVAEELENVRILPHTVLYMADSETFISLEECRGHKRARKRTSMETALALEKLFP
KQCQVLGIVTPGIVVTPMGSGSNRPQEIEIGESGFALLFPQIEGIKIQPFHFIKDPKNLTLERHQLTEVG
LLDNPELRVVLVFGYNCCKVGASNYLQQVVSTFSDMNIILAGGQVDNLSSLTSEKNPLDIDASGVVGLSF
SGHRIQSATVLLNEDVSDEKTAEAAMQRLKAANIPEHNTIGFMFACVGRGFQYYRAKGNVEADAFRKFFP
SVPLFGFFGNGEIGCDRIVTGNFILRKCNEVKDDDLFHSYTTIMALIHLGSSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6509_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_147188

ORF Size: 1209 bp

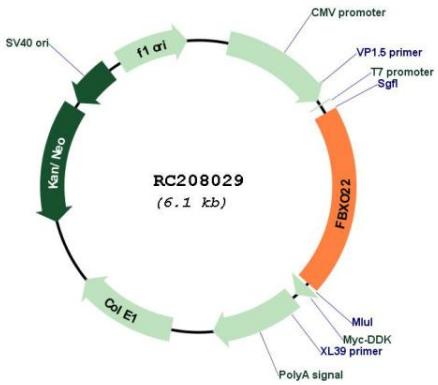
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

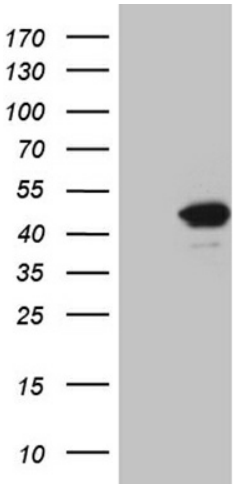
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_147188.3
RefSeq Size:	3497 bp
RefSeq ORF:	1212 bp
Locus ID:	26263
UniProt ID:	Q8NEZ5
Cytogenetics:	15q24.2
Domains:	F-box
Protein Families:	Druggable Genome
MW:	44.5 kDa
Gene Summary:	This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of the ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbxs class and, as a transcriptional target of the tumor protein p53, is thought to be involved in degradation of specific proteins in response to p53 induction. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2010]

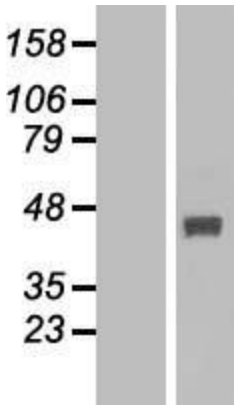
Product images:



Circular map for RC208029



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FBXO22 (Cat# RC208029, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FBXO22 (Cat# [TA809766])(1:2000). Positive lysates [LY407782] (100ug) and [LC407782] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY407782]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208029 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).