OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC201403

ABCF3 (NM_018358) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCF3 (NM_018358) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABCF3
Synonyms:	EST201864
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201403 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGACTTGCGCCGAAATCCTGCGGAGCGAGTTCCCCGAAATTGACGGACAAGTCTTCGACTACGTGA
CCGGCGTCTTGCACAGCGGCAGCGCGGACTTCGAGTCTGTGGATGACCTGGTGGAAGCTGTAGGGGAACT
ATTGCAAGAGGTGTCCGGGGACAGCAAGGATGACGCGGGCATCAGGGCCGTGTGCCAGCGCATGTACAAC
ACTCTGCGTCTGGCTGAGCCACAAAGCCAGGGAAATAGCCAGGTGCTACTGGACGCCCCTATCCAGTTGT
CAAAGATAACGGAGAACTACGACTGTGGAACCAAACTTCCAGGACTGCTAAAGAGGGAACAGTCCTCGAC
AGTGAATGCAAAGAAGTTAGAGAAGGCCGAGGCTCGACTTAAGGCAAAGCAGGAGAAGCGCTCAGAGAAG
GACACGCTCAAGACCAGCAACCCTCTAGTCTTAGAAGAGGCATCAGCCAGCCAGGCAGGCAGCAGAAAGG
AGAGTCGGTTGGAATCATCTGGCAAGAACAAATCCTATGATGTGCGAATTGAGAACTTTGATGTGTCTTT
TGGCGATAGAGTACTGCTGGCTGGAGCGGATGTGAACCTGGCATGGGGCCGCCGTTACGGGCTGGTGGGG
CGGAATGGGTTGGGGAAGACAACGTTACTGAAGATGCTGGCCACCCGGAGTCTGCGGGTTCCAGCCCACA
TTTCCCTGCTGCACGTTGAGCAAGAGGTTGCTGGAGATGACACTCCTGCCCTGCAGAGTGTGCTGGAGAG
TGACAGTGTGCGAGAGGATTTGTTACGGAGGGAGCGGGAGCTCACTGCCCAGATTGCTGCTGGCAGGGCG
GAGGGCTCTGAAGCTGCAGAGCTGGCAGAAATCTATGCCAAACTGGAGGAGATTGAGGCTGACAAGGCAC
CTGCCAGGGCATCAGTCATTCTCGCTGGGCTTGGCTTTACCCCTAAAATGCAGCAGCAGCCCACCCGGGA
GTTCTCAGGTGGCTGGAGGATGAGGCTGGCCCTGGCCCGGGCCCTCTTTGCTAGGCCAGATCTTCTGCTG
TTAGATGAACCTACAAACATGCTGGATGTCAGGGCCATCCTGTGGCTGGAGAATTACCTGCAGACGTGGC
CCTCCACCATCCTAGTCGTCTCCCACGACCGCAACTTCTTGAATGCCATCGCCACAGACATCATCCACCT
GCACAGCCAGCGGCTAGATGGTTACCGGGGAGACTTTGAGACCTTCATCAAGAGTAAGCAGGAGCGGCTG
CTCAACCAGCAGCGTGAATATGAGGCGCAGCAGCAGTATCGCCAGCACATCCAGGTTTTCATTGACCGGT
TTCGCTACAATGCCAACAGGGCCTCTCAAGTGCAGAGTAAACTCAAGATGCTGGAGAAGCTGCCTGAGCT
GAAGCCTGTGGACAAGGAATCAGAGGTCGTAATGAAGTTCCCTGATGGGTTTGAGAAGTTCTCGCCGCCA
ATTCTGCAGCTAGATGAGGTGGATTTCTACTACGATCCGAAGCACGTCATCTTCAGTCGCCTCTCTGTGT
CTGCTGATCTCGAGTCTCGCATCTGTGTGGTTGGAGAGAATGGGGCTGGGAAGTCTACCATGCTGAAGCT
GCTTTTGGGGGACCTGGCACCTGTTCGGGGCATCAGACACGCTCACAGGAATCTGAAGATTGGCTATTTC
AGCCAGCACCATGTGGAGCAGCTGGACCTAAACGTCAGTGCTGTGGAACTGCTGGCACGCAAGTTTCCTG
GGCGGCCTGAGGAGGAGTACCGTCACCAGCTGGGTCGGTATGGCATCTCCGGAGAACTGGCCATGCGTCC
TCTTGCCAGCCTGTCTGGGGGCCAGAAGAGCCGAGTGGCCTTTGCTCAGATGACTATGCCCTGCCCCAAC
TTCTACATTCTGGATGAACCCACAAACCACCTGGACATGGAGACCATTGAGGCTCTGGGCCGTGCCCTCA
ACAATTTCAGGGGTGGTGTGATTCTGGTGTCCCACGATGAGCGCTTTATCAGGCTGGTGTGCCGGGAGTT
GTGGGTATGCGAAGGAGGCGGCGTCACCCGTGTGGAAGGAGGATTTGACCAGTACCGCGCCCTCCTCCAG
GAACAGTTCCGCCGCGAAGGCTTCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201403 protein sequence
Red=Cloning site Green=Tags(s)

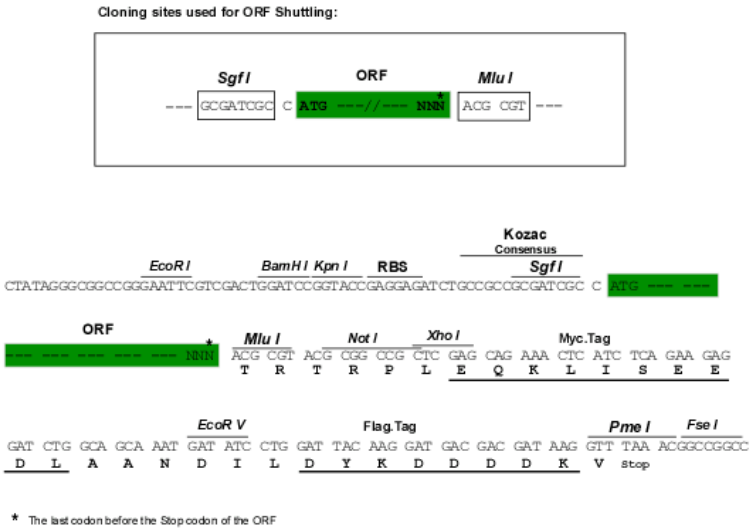
MATCAEILRSEFPEIDGQVFDYVTGVLHSGSADFESVDDLVEAVGELLQEVSGDSKDDAGIRAVCQRMYN
TLRLAEPQSQGNSQVLLDAPIQLSKITENYDCGTKLPGLLKREQSSTVNAKKLEKAEARLKAKQEKRSEK
DTLKTSNPLVLEEASASQAGSRKESRLESSGKNKSYDVRIENFDVSFGDRVLLAGADVNLAWGRRYGLVG
RNGLGKTTLLKMLATRSLRVPAHISLLHVEQEVAGDDTPALQSVLESDSVREDLLRRERELTAQIAAGRA
EGSEAAELAEIYAKLEEIEADKAPARASVILAGLGFTPKMQQQPTREFSGGWRMRLALARALFARPDLLL
LDEPTNMLDVRAILWLENYLQTWPSTILVVSHDRNFLNAIATDIIHLHSQRLDGYRGDFETFIKSKQERL
LNQQREYEAQQQYRQHIQVFIDRFRYNANRASQVQSKLKMLEKLPELKPVDKESEVVMKFPDGFEKFSPP
ILQLDEVDFYYDPKHVIFSRLSVSADLESRICVVGENGAGKSTMLKLLLGDLAPVRGIRHAHRNLKIGYF
SQHHVEQLDLNVSAVELLARKFPGRPEEEYRHQLGRYGISGELAMRPLASLSGGQKSRVAFAQMTMPCPN
FYILDEPTNHLDMETIEALGRALNNFRGGVILVSHDERFIRLVCRELWVCEGGGVTRVEGGFDQYRALLQ
EQFRREGFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6576_g12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018358

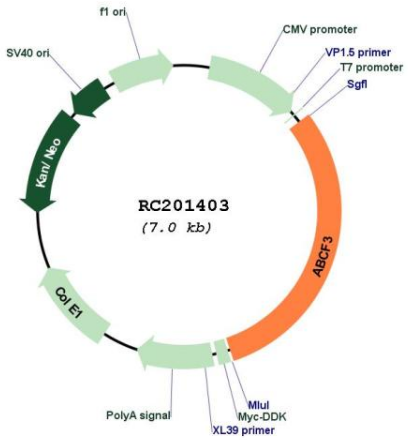
ORF Size: 2127 bp

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

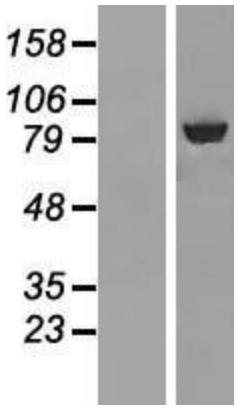
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_018358.2
RefSeq Size:	2626 bp
RefSeq ORF:	2130 bp
Locus ID:	55324
UniProt ID:	Q9NUQ8
Cytogenetics:	3q27.1
Domains:	ABC_tran, AAA
Protein Families:	Druggable Genome
MW:	79.7 kDa
Gene Summary:	This gene encodes a member of the ATP-binding cassette (ABC) transporter superfamily. ATP-binding cassette proteins transport various molecules across extra- and intracellular membranes. The protein encoded by this gene displays antiviral effect against flaviviruses. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2017]

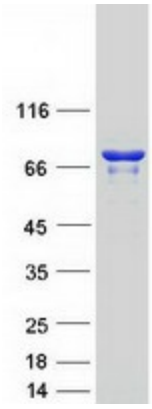
Product images:



Circular map for RC201403



Western blot validation of overexpression lysate (Cat# [LY413110]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201403 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ABCF3 protein (Cat# [TP301403]). The protein was produced from HEK293T cells transfected with ABCF3 cDNA clone (Cat# RC201403) using MegaTran 2.0 (Cat# [TT210002]).