

Product datasheet for **SC118287**

ABCE1 (NM_002940) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCE1 (NM_002940) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCE1
Synonyms:	ABC38; OABP; RLI; RLI1; RNASEL1; RNASELI; RNS4I
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118287 sequence for NM_002940 edited (data generated by NextGen Sequencing)

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ATGGCAGACAAGTTAACGAGAATTGCTATTGTCAACCATGACAAATGTAACCTAAGAAA
TGTCGACAGGAATGCAAAAAGAGTTGTCCTGTAGTTTCCGAACTTTTGTATTGGTTGTGGTATC
GTTACACCCCAGAGCAAAATAGCATGGATTTCCGAACTCTTTGTATTGGTTGTGGTATC
TGTATTAAGAAATGCCCTTTGGCGCCTTATCAATTGTCAATCTACCAAGCAACTGGAA
AAAGAAACCACACATCGATATTGTGCCAATGCCCTCAAACCTCACAGGTTGCCTATCCCT
CGTCCAGGTGAAGTTTTGGGATTAGTTGGAACCTAATGGTATTGGAAAGTCAACTGCTTTA
AAAATTTTAGCAGGAAAAAAAAGCCAAACCTTGAAAGTACGATGATCCTCCTGACTGG
CAGGAGATTTTGACTTATTTCCGTGGATCTGAATTACAAAATTACTTTACAAAGATTCTA
GAAGATGACCTAAAAGCCATCATCAAACCTCAATATGTAGACCAGATTCCTAAGGCTGCA
AAGGGACAGTGGGATCTATTTGGACCGAAAAGATGAAACAAAGACACAGGCAATTGTA
TGTCAGCAGCTTGATTTAACCCACCTAAAAGAACGAAATGTTGAAGATCTTTCAGGAGGA
GAGTTGCAGAGATTTGCTTGTGCTGTCGTTTGCATACAGAAAGCTGATATTTTCATGTTT
GATGAGCCTTCTAGTTACCTAGATGTCAAGCAGCGTTTAAAGGCTGCTATTACTATACGA
TCTCTAATAAATCCAGATAGATATATCATTGTGGTGGAAACATGATCTAAGTGATTAGAC
TATCTCTCCGACTTCATCTGCTGTTTATATGGTGTACCAAGCGCCTATGGAGTTGCACT
ATGCCTTTTAGTGTAAAGAGAAGGCATAAACATTTTTTTGGATGGCTATGTTCCAACAGAA
AACTTGAGATTACAGAGATGCATCACTTGTTTTTAAAGTGGCTGAGACAGCAAAATGAAGAA
GAAGTTAAAAAGATGTGTATGTATAAATATCCAGGAATGAAGAAAAAAATGGGAGAATTT
GAGCTAGCAATTGTAGCTGGAGAGTTTACAGATTCTGAAATTATGGTGTGCTGGGGGAA
AATGGAAACGGGTAAAACGACATTTATCAGAATGCTTGTGGAAGACTTAAACCTGATGAA
GGAGGAGAAGTACCAGTTCTAAATGTCAGTTATAAGCCACAGAAAAATTAGTCCCAATCA
ACTGGAAGTGTTTCGCCAGTTACTACATGAAAAGATAAGAGATGCTTATACTCACCACAAA
TTTGTGACCGATGTAATGAAGCCTCTGCAAATTGAAAACATCATTGATCAAGAGGTGCAG
ACATTATCTGGTGGTGAACCTACAGCGAGTAGCTTTAGCCCTTTGCTTGGGCAAACCTGCT
GATGTCTATTTAATTGATGAACCATCTGCATATTTGGATTCTGAGCAAAGACTGATGGCA
GCTCGAGTTGTCAAACGTTTCACTCCATGCAAAAAAGACAGCCTTTGTTGTGGAACAT
GACTTCATCATGGCCACCTATCTAGCGGATCGCGTCATCGTTTTTGTGGTGTCCATCT
AAGAACACAGTTGCAAACAGTCCCAAACCTTTTGGCTGGCATGAATAAATTTTTGTCT
CAGCTTGAATACATTCAGAAGAGATCCAAACAACCTATAGGCCACGAATAACAACCTT
AATTCAATTAAGGATGTAGAACAAAAGAAGAGTGGAACCTACTTTTTCTTGGATGATTAG

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Clone variation with respect to NM_002940.2

5' Read Nucleotide Sequence: >OriGene 5' read for NM_002940 unedited

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TGTTACATTTGTATACGACTCCTATAGGCGGCCGCGNAATTCGCACGAGGGCGGCTGGG
CACCGCCATTTTGCCCGTGGCCGTGAGAACACGCTGTGTGGCTGAAAAGTGAAGGCAAG
AGCTGATTTGGCCTCTGTGCTCCCTCCGCAAGGGGATCGTTTTTCTCAGAAGAGCTGGA
TATTTCTTCGCCAGTTATGGCAGACAAGTTAACGAGAATTGCTATTGTCAACCATGACA
AATGTAACCTAAGAAATGTCGACAGGAATGCAAAAAGAGTTGTCCTGTAGTTTCCGAACTG
GAAAATTATGCATAGAGGTTACACCCCAGAGCAAAATAGCATGGATTTCCGAACTCTTT
GTATTGGTTGTGGTATCTGTATTAAGAAATGCCCTTTGGCGCCTTATCAATTGTCAATC
TACCAAGCAACTTGAAAAAGAAACCACACATCGATATTGTCCAATGCCTTCAAACCTC
ACAGGTTGCCTATCCCTCGTCCAGGTGAAGTTTTGGGATTAGTTGGAACCTAATGGTATTG
GAAAGTCAACTGCTTTAAAAATTTTAGCAGGAAAACAAAAGCCAAACCTTGAAAGTACG
ATGATCCTCCTGACTGGCAGGAGATTTTGACTTATTTCCGTGGATCTGAATTACAAAATT
ACTTTACAAAGATTCTAGAAGATGACCTANAAGCCATCATCAAACCTCAATATGTAGACC
AGATTCTANAGCTGCAAAGGGGACAGTGGGATCTATTTGGNACCGAAAGATGAAACAN
AGACACAGGCAATTTGATGTGTCAGCAGCTTGATTTAACCCACCTANAGAAACGAATGTTG
NNAGATCTTTCACGGAGGAGAGTGCAGAGATTTGCTTGTGCTGNCGTTGGCATACAAAAG
CTGATATNTTCATGGTNGATGA

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002940 unedited GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTAAACATAATCCTGATG TTTATTTATCAAATGTCAATCAGTGAATCTTTGACTGGCTTTTAAAATAAGGGCAGTTT CATTACACTGGCATACTTGGCAAACCAGGTAAGTACAGAAACCCTTTTCAAGATTTAAAA AATGGAGCAACACTGGTCAGCATTGGTACCGTGAATATAATACACCTACTGAAAATCTT CCCATACATCATGAAAACCTTGAAGTAATTTGTATAGCTTGAAATGTCTTCATTTTAGAA TATTATGCACAAAAGAGCCTCTTCAGGAACAGAAAAGTGGCATTCTGTGTTCACAACTA CAATTTAGAACCAACTGGCTTTTTATGTTATATTAAGTATATTATACTTCAAGTTCAG AGTATGTGGGCATAAAATCCTGATTCAAGTTTTATATGACAAAAAATTCTAGTAAATAC TCCTTTTAATAAATGGCTTATCAATATTCTCAGAGTCAGTCTAATCATCCAAGAAAAAGT AGTTTCCACTCTCTTTTGTCTACATCCTTAATTGAATTAAGTTTGTATTTCGTGGCC TATAGTTGTTGGATCTCTTCTGATGTAATTTCAAGCTGAGACAAAAATTATTCATGCCA GCCAAAGGGTTGAGGACTGTTGCACTGTCTTAGATGGAACCCATCAAACCATGAC GCGATCCGGTAGATAGGTGGCATGATGAAATCATGTTCCAACCAAGCTGTCTTTTTTGA TGGAGTATGAAAGTTTAAAACCTCGACCGCCTTAATCTTGTAAAAATCAAATTGCGATGGG TATCATAATAAATTACAGGTTGCCAACCAAGGCTAAGTATCTTGTGATACCACAAAAAGG TTGCCTTT
Restriction Sites:	ECoRI-NOT
ACCN:	NM_002940
Insert Size:	2910 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
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:	NM_002940.1 , NP_002931.1
RefSeq Size:	3568 bp

RefSeq ORF: 1800 bp

Locus ID: 6059

UniProt ID: [P61221](#)

Cytogenetics: 4q31.21

Domains: fer4, ABC_tran, AAA, RLI

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the OABP subfamily. Alternatively referred to as the RNase L inhibitor, this protein functions to block the activity of ribonuclease L. Activation of ribonuclease L leads to inhibition of protein synthesis in the 2-5A/RNase L system, the central pathway for viral interferon action. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein.