ABCE1 cDNA Clone – ATP-Binding Cassette, Sub-Family E (OABP), Member 1 (Human)

PRODUCT OVERVIEW

Product Name	ABCE1, cDNA Clone
Full Product Name	ABCE1 cDNA Clone
Product Gene Name	ABCE1 cdna clone
Sequence	atggcagaca agttaacgag aattgctatt gtcaaccatg acaaatgtaa acctaagaaa tgtcgacagg aatgcaaaaa gagttgtcct gtagttcgaa tgggaaaatt atgcatagag gttacacccc agagcaaaat agcatggatt tccgaaactc tttgtattgg ttgtggtatc tgtattaaga aatgcccctt tggcgcctta tcaattgtca atctaccaag caacttggaa aaagaaacca cacatcgata ttgtgccaat gccttcaaac ttcacaggtt gcctatccct cgtccaggtg aagttttggg attagttgga actaatggta ttggaaagtc aactgcttta aaaattttag caggaaaaca aaagccaaac cttggaaagt acgatgatcc tcctgactgg caggagattt tgacttattt ccgtggatct gaattacaaa attactttac aaagattcta gaagatgacc taaaagccat catcaaacct caatatgtag accagattcc taaggctgca aaggggacag tgggatctat tttggaccga aaagatgaaa caaagacaca ggcaattgta tgtcagcagc ttgatttaac ccacctaaaa gaacgaaatg ttgaagatct ttcaggagga gagttgcaga gatttgcttg tgctgtcgtt tgcatacaga aagctgatat tttcatgttt gatgagcctt ctagttacct agatgtcaag cagcgtttaa aggctgctat tactatacga tctctaataa atccagatag atatatcatt gtggtggaac atgatctaag tgtattagac tatctctccg acttcatctg ctgtttatat ggtgtaccaa gcgcctatgg agttgtcact atgcctttta gtgtaagaga aggcataaac attttttgg atggctatgt tccaacagaa aacttgagat tcagagatgc atcacttgtt tttaaagtgg ctgagacagc aaatgaagaa gaagttaaaa agatgtgtat gtataaatat ccaggaatga agaaaaaaat gggagaattt gagctagcaa ttgtagctgg agagtttaca gattctgaaa ttatggtgat gctgggggaa aatggaacgg gtaaaacgac atttatcaga atgcttgctg gaagacttaa acctgatgaa ggaggagaag taccagttct aaatgtcagt tataagccac agaaaattag tcccaaatca actggaagtg ttcgccagtt actacatgaa aagataagag atgcttatac tcacccacaa tttgtgaccg atgtaatgaa gcctctgcaa attgaaaaca tcattgatca agaggtgcag acattatctg gtggtgaact acagcgagta gctttagccc tttgcttggg caaacctgct gatgtctatt taattgatga accatctgca tatttggatt ctgagcaaag actgatggca gctcgagttg tcaaacgttt catactccat gcaaaaaaga cagcctttgt tgtggaacat gacttcatca tggccaccta tctagcggat cgcgtcatcg tttttgatgg tgttccatct aagaacacag ttgcaaacag tcctcaaacc cttttggctg gcatgaataa atttttgtct cagcttgaaa ttacattcag aagagatcca aacaactata ggccacgaat aaacaaactt aattcaatta aggatgtaga acaaaagaag agtggaaact acttttctt ggatgattag
Molecular Weight	67,314 Da
OMIM	601213
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ABCE1 cdna clone	MBS1278091 is a cDNA clone targeting ABCE1.
Other Notes	Small volumes of ABCE1 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ABCE1. It may not necessarily be applicable to this product.

NCBI GI #	16740841
NCBI GeneID	6059
NCBI Accession #	BC016283
UniProt Secondary Accession #	O88793; Q13181; Q13864; Q6NR76; Q96AL0; Q96B10; Q99K66
UniProt Related Accession #	P61221
NCBI Official Full Name	Homo sapiens ATP-binding cassette, sub-family E (OABP), member 1, mRNA

NCBI Official Synonym Full Names	ATP binding cassette subfamily E member 1
NCBI Official Symbol	ABCE1
NCBI Official Synonym Symbols	RLI; OABP; RLI1; ABC38; RNS4I; RNASEL1; RNASELI
UniProt Protein Name	ATP-binding cassette sub-family E member 1
UniProt Synonym Protein Names	2'-5'-oligoadenylate-binding protein; HuHP68; RNase L inhibitor; Ribonuclease 4 inhibitor; RNS4I
Protein Family	ABC transporter E family
UniProt Gene Name	ABCE1
UniProt Synonym Gene Names	RLI; RNASEL1; RNASELI; RNS4I; RNS4I
UniProt Entry Name	ABCE1_HUMAN
NCBI Protein Information	ATP-binding cassette sub-family E member 1
NCBI Summary for ABCE1	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]
UniProt Comments for ABCE1	ABCE1: Antagonizes the binding of 2-5A (5'-phosphorylated 2',5'-linked oligoadenylates) by RNase L through direct interaction with RNase L and therefore inhibits its endoribonuclease activity. May play a central role in the regulation of mRNA turnover. Antagonizes the anti-viral effect of the interferon-regulated 2-5A/RNase L pathway. May act as a chaperone for post-translational events during HIV-1 capsid assembly. Belongs to the ABC transporter superfamily. ABCE family. Chromosomal Location of Human Ortholog: 4q31 Cellular Component: cytoplasm; eukaryotic translation initiation factor 3 complex; membrane; mitochondrial matrix; mitochondrion Molecular Function: ATP binding; iron ion binding; protein binding; ribosomal small subunit binding Biological Process: ribosome export from nucleus; translational initiation; translational termination; transmembrane transport
Research Articles on ABCE1	**1.** Downregulation of ABCE1 via siRNA affects the sensitivity of lung cancer cells against chemotherapeutic agents.
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