

Specifications:

Gene:	hABCB5
Accession:	NP_848654
Insert size:	2452bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

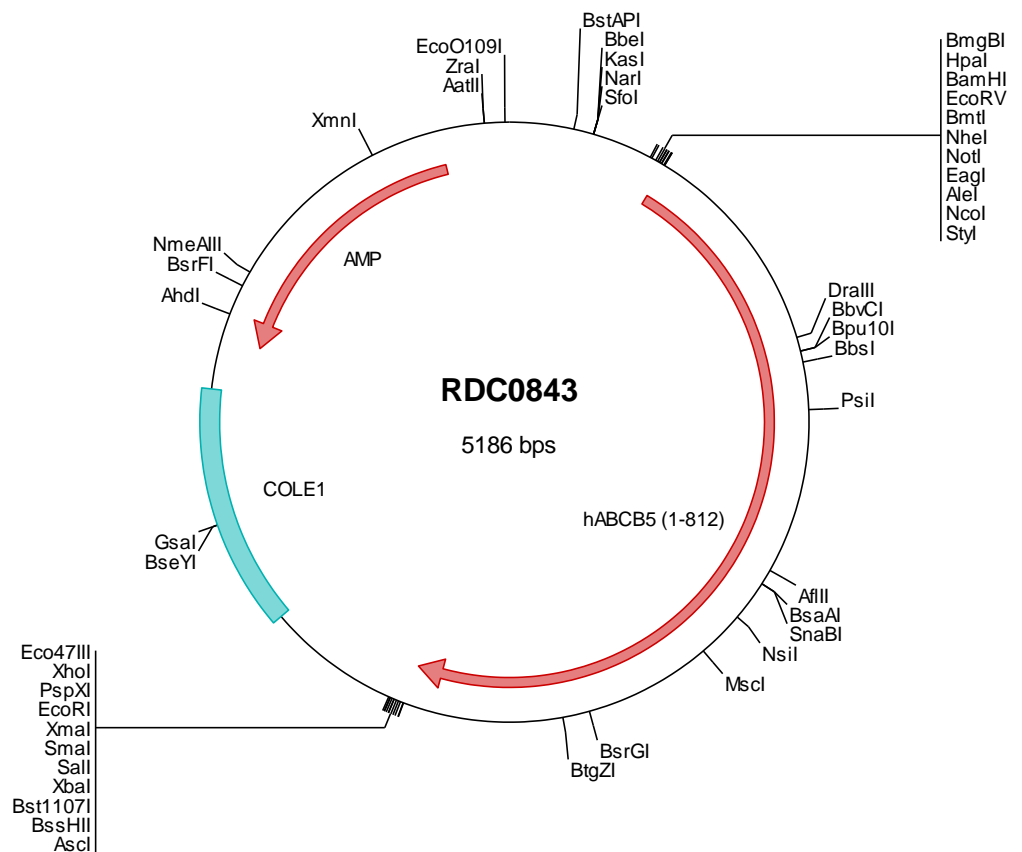
hABCB5 cDNA Plasmid

ABCB5 ATP-binding cassette, sub-family B (MDR/TAP), member 5 [*Homo sapiens* (human)]

Also known as: ABCB5beta; ABCB5alpha

Summary:

ABCB5 is a multidrug resistance (MDR) integral membrane protein belonging to the ATP-binding cassette (ABC) transporter superfamily. It acts as an energy-dependent drug efflux transporter and has been linked to malignancies including melanoma. It is required for the tumorigenicity and progression of melanoma and other malignancies. ABC transporters and MDR will likely be important in the therapeutic optimization for cancer patients.





> RDC0843 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtea cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcagggcgcg tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taaggccgct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccgggt ttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagcct ggatccgata tcgctagcgc gggccgccacc atggtggatg agaatgacat cagagcttta aatgtgcccg attatcgaga
501 ccaattggga ttggttagtc aagagcctgt ttgttccggg accaccatca gtaacaatat caagatgga cgagatgat tgactgatga agagatggag
601 agagcagcaa ggaagcaaaa tgcgtatgat ttatcatggt agtttccctaa taaatataat acattggtag gggaaaaaagg agctcaaatg agtggagggc
701 agaaaacagag gatcgcaatt gctcgtgcct tagttcgaaa cccaagatt cgtattttag atgaggctac gttctgccctg gattcagaaa gcaagtcaocg
801 tgttcaagct gcactggaga agcggagcaa aggtcggact acaatcgtgg tagcacaccg actttctact attcgaagtg cagatttgat tgtgacccta
901 aaggatggaa tgctggcgga gaaaggagca catgctgaac taatggcaaaa acgaggtcta tattattcag ttgtgatgtc acaggatatt aaaaaagctg
1001 atgaacagat ggagtcaatg acatattcta ctgaaagaaa gaccaactca ctctctctgc actctgtgaa gagcatcaag tcagacttca ttgacaagcg
1101 tgaggaatcc acccaatcta aagagataag tcttccggaa gtcctctat taaaaatttt aaagttaaac aagcctgaat ggcttttgt ggtctggggg
1201 acattggctt ctgttctaaa tggaaactgtt catccagtat ttccatcat ctttgcaaaa attataacca tgtttggaaa taatgataaa accacattaa
1301 agcatgatgc agaaatattat tccatgatat tgcgtatatt ggggtgtatt tgctttgtca gttatttcat gcagggatta tttaaccgga gacgagggga
1401 atgtgaaatc atggcaatg atgagattaa gacattggc gtcctctatc atgaaatatt taaaatattt cgtggttgat gaaaaggaaa aggcttgaca
1501 acaatattag ccatagatat agcaaaatt caaggagcaa caggttccag gatgtggctc ttaacacaaa atgcaactaa catgggactt tcaattatac
1601 ttctcttat atatggatgg gagatgacat tctctgattc tagtattgct ccagctctg ccgtgacagg aatgattgaa accgcagcaa tgactggatt
1701 ttccaacaaa gataagcaag aacttaagca agctgggact atagcaactg aagctttgga gaatatacgt actatagtgat cattaacaag ggaaaaagcc
1801 ttcgagcaaa tgatgaaga gatgcttcag actcaacaca gaaatacctc gaagaaagca cagattattg gaagctgta tgcattcagc catgcttca
1901 tatattttgc ctatgocgga gggtttccat ttggagccta ttaatttcaa gctggacgaa tgaccccaaga gggcatgttc atagttttta ctgcaattgc
2001 atatggatcc atggcaatg gagaaaagct cgttttggct cctgaatatt ccaaagccaa atcgggggct gcgcatctgt ttgctttgtt ggaaaagaaa
2101 ccaaatatag acagcccgag tcaagaaggg aaaaagccag acacatgta agggaattta gaggttccag aagctctctt cttctatcca tgcgccca
2201 atgttttct cctcctggc ttaacctca gttattgagc aggaagaca gtgacatttg tggggagcag cggctgtggg aaaagcactt ctgttcaact
2301 atgtcaaga ctttatgacc ccgtgcaagg acaagtgtg ttgtatggtg ttgatgcaaa agaatgaaat gtaacagtgc atagcttcca aatagcaatc
2401 gtctctcaag agcctgtgct ctccaactgc agcaatgtgt agaacaatgc ctatggtgac aaacagcctg tgggtccatt agatgagatc aaagaagccg
2501 caaatgcagc aatatccat ctcttttatt aaggtctccc tgagaaatc aacacacaag ttggactgaa agggacacag cttctggcg gccagaaca
2601 aagactagct attgcaagg tcttttccca aaaaacccaa attttattg ttgctcaact cactcagcc ctcgataag acagtgaaa tttggtttcag
2701 catgcccctg ataaagccag gacgggaagg acatgctag ttgctcaact caggctctct gcaattcaga acgcagatt gatagtggtt ctgcacaatg
2801 gaaagataaa ggaacaagga actcatcaag agctcctgag aatctgagac atatatatta agttagtgaa tgcacagtoa gttcaataaa ggcgcgccag
2901 tatactctag agtcgacacc cggggaattc ctogagcct cgtctctagc ttggcgtaat catggtcata gctgtttctt ggtgaaatt gttatccgct
3001 cacaattcca cacaacatca gagccggaag cataaagtgt aaagcctggg gtgcctaatg agtgagctaa ctacattaa ttgctgtgag ctcaactccc
3101 gctttccagt cgggaaacct gtcgtgccag ctgcattaat gaatcggcca acgcgcgggg agaggcggtt tgcgtattgg gcctcttcc gcttctccgc
3201 tcactgactc gctgocctcg gtcgctcgcc ggtatcagct cactcaaaag cactcaaaag cctcaaaag cggtaatac gttatccaca gaatcagggg
3301 aaagaacatg tgagcaaaag gccagcaaaa gggcaggaac cgtaaaaagg ccgctgtgtc ggcgttttcc cataggtccc gcccccctga ctagcatcac
3401 aaaaatcgac gctcaagta gagggtggca aaccgcagc gactataagg ataccagcg ggaataaag caccagcagc tttcccctct gaagctcct
3501 cccctgocct taccggatc ctgtccgct tctctccctc gggtaacag gcttttctc aatgtcaccg ctgtaggtat ctgtactogg tbtaggtcgt
3601 tgcgtccaag ctgggctgtg tgcagcaacc ccccgctcag cccgaccgct ggccttattc cggtaactat cgtcttagt ccaaccctga aagacacagc
3701 ttatgccaac tggcagcagc actgtgtaac gactgtagca gtagcagctt tgttagcgtt gtaagcgtg gctacagagt tcttgaagt gggcctaac
3801 ctagaaggac agtatttgg tctgocctc tgcgtgaagc agttacgta ggaaaaagag ttggtagctc ttgatccggc aaacaaacca ccgctggtag
3901 cgggtggttt tttgtttgca agcagcagat tacgcgcaga aaaaaagat ccaaaagaa tctcttgatc ttttctcagg ggtctgacgc tcaagtggac
4001 gaaaactcac gttaaaggat ttgtgctatg agattatcaa aaaggatctt cctcatagatc aaaaatgaag ttttaatac ttttaatac ataaagta
4101 tatatgagta aactgtgtct gacagttacc aatgcttaat cagttaggca cctatctcag cगतctgtct atttctgtca tccatagttg cctgactccc
4201 cgtcgtgtag ataactaca tacgggaggg cttaccatct ggccccagtg ctgcaatgat accgcagac ccacgctcac cggctccaga tttatcaga
4301 ataaaccagc cagccggaag agcggagcgc ctgcaacttt atccgctcc gctcgtctg ttggtatggct tcattcagct ccggttccca
4401 gttccgcaag taatagtttg cgaacagttg ttgccattgc tacaggcatc gtggtgtcac gctcgtcgtt tggataggct tcattcagct ccggttccca
4501 acgatcaagg cgagttacat gatcccccat gttgtgcaaa aaagcgggta gctcctcggc tctcctcagc gttgtcagaa gtaagttggc cgagtgta
4601 tcaactcag tttatggcagc actgcataat tctcttactg tcatgcoatc cgtaaagatg tttctgtga ctggtgagta ctcaaccaag tcaattctgag
4701 aatagtgat gggcgacagg agttgctctt gcccgcgctc aatacgggat aataccggc cacatagcag aactttaaaa gtgctcatca ttggaaaaagc
4801 tctctcgggg cgaaaactct caaggatctt accgctgttg agatccagtt cगतgtaacc cactcgtgca ccaactgat ctccagatc ttttactttc
4901 accagcgttt ctgggtgagc aaaaacagga aggcaaaatg ccgcaaaaaa gggaaatagg gcgacacgga aatgttgaat actcatact tctcttttct
5001 aatattattg aagcatttat cagggttatt gctctatgag cggatacata ttgaaatgta tttagaaaaa taaacaaata ggggttccgc gcacatttcc
5101 ccgaaaaagtg ccactgacg tcaagaaac cattattatc atgacattaa cctataaaaa taggcgtatc acgagccctt ttcgct

> RDC0843 Translated Insert Sequence

1 mvdendiral nvrhyrdhig vvsqepvlfg ttisnniky rddvtdeeme raareanayd fimefnpkfn tlvgckgaqm sggqkqriai aralvrnpki
101 lildeatsal dsesksavga alekaskgrt tivvahrsl irsadlvtl kdgmlaekga haelmakrgl yslvmsqdi kkadeqmesm tysterktns
201 lplhsvksik sdfidkaees tqskeislpe vsllkilkln kpewpfvvlv tlasvlnqtv hpvfsiifak iitmfgnndk tllkhdaey smifvilgvi
301 cfvsvymqgl fygrageilt mrlrlhlfaka mlyqdiawfd ekenstgglt tilaidiaqi qgatgsrigrv ltnatnmgl sviisfiygw emtflilsia
401 pvlavtgmie taamtgfank dkqelkhagk iatealenir tivsltreka feqmyeemlq tqhrntskka qiigscyafs hafiyfayaa gfrfgayliq
501 agrmtpegmf ivftaiayga maigetlvla peyskakska ahlfallekk pnidrsqeg kkpdtcegnl efrevsffyp crpdvfllrg lsliersgkt
601 vafvsgsgcg kstsvqllqr lydvpvgqvl fdgdvakeln vqwlrsqiai vpqepvlfnf siaeniaygd nsrvvpldei keaanaanih sfieglpeky
701 ntqvglkgaq lsggqkqrla iarallqkpk illldeatsa lndndsekvvq haldkartgr tclvvthrls aiqnaaliyv lhnkikegg thqellnrnd
801 iyfklvnaqs vq