

Product datasheet for **RG240185**

ABCA8 (NM_001288985) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCA8 (NM_001288985) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ABCA8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240185 representing NM_001288985. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGGAAGAGAAAGATCAGTGTGTGTCAACAACTTGGGCCTTATTATGCAAGAACTTTCTTAAAAA
TGGAGAATGAAAAGAGAGTCTTAATGGAATGGCTGAATTCATTGCTCCTACTACTTTGTTTGTATATA
TATCCTCATAGTCATCAAGTAAATGATTTTTCTCACTGCTTACCATGGACCTGGGACGGGTAGATACA
TTAATGAATCCAGATTTTCTGTGTATACACACCTGTCACCAACACGACCCAACAGATAATGAATAAA
GTAGCCTCTACTCCCTTCTGGCAGGTAAGAGGTCCTGGGACTGCCAGATGAGGAAAGTATTAAGAA
TTCACAGCAAATTATCCTGAAGAAATAGTAAGAGTCACCTTTACTAATACATACTCATATCATTGGAAG
TTCTTGCTAGGACATGGAATGCCAGCAAAGAAGGAGCACAAAGGACCATACAGCTCATTGTTATGAAACA
AATGAAGATGTTTACTGTGAAGTTTCAGTATTTTGAAGGAAGGTTTTGTGGCTCTTCAAGCTGCCATT
AATGCTGCTATTATAGAAATCACAACAAATCACTCAGTATGGAGGAGCTGATGTCAGTACTGGAAAA
AATATGAAGATGCATTCTTTCATTGGTCAATCAGGAGTTATAACTGATTTGTACCTTTTTCTGCATT
ATTTCAATTTCTCATTCTTACTATGCATCTGTTAATGTCACAAGAGAGAGGAAAAGGATGAAGGCC
TTGATGACAATGATGGGCTTCGGGATTCAGCGTTCTGGCTCTCCTGGGTTTGTCTATGCTGGTTTC
ATCTTCATTATGGCCCTTTCTGGCCTTGTATAAGATCTACCCAGTTTATCATTGTCTGGCTTC
ATGGTAGTCTTCAGCCTTTTCTCCTGTATGGATTATCTTTGGTAGCTTTGGCTTTCTTAATGAGCATC
TTGGTAAAGAAATCTTTCTCACCAGCCTGGTCTGTTCCTCCTCACTGTCTTTGGGGGTGTCTGGGG
TTCACATCACTGTACAGACACCTTCTGCATCCTTGGAGTGGATTTAAGCTTGCTTAGTCCCTTTGCC
TTCATGCTTGGAAATGGCCAGCTTTTACACTTGGACTATGATTTGAATCTAATGCATTTCTCATCCA
TCGGACGGCTCAAATCTCATTGTAGCAACAAATTTTCATGTTGGCATTGACACTTGCCCTCTATCTGGCA
TTGGCGATTTACTTTGAAAAATTTTGCCTAAATGAATATGGACATCGACGTCACCTTTGTTTTCTG
AAGTCCTCATTGTTGCTCAAACACAAAAGACTGATCAGTGGCCCTTGAAGATGAAATGGATGCCGAT
CCTTCATTTTCATGACTCTTTTGAACAAGCGCTCCAGAATCCAAGGGAAAGAAGCCATCAGAATCAGA
AATGTTACAAAAGAATATAAAGGAAAGCCTGATAAAATAGAAGCCTTGAAGATCTGGTATTTGACATT
TACGAAGCCAAATCACTGCAATACTTGGTCACAGTGGAGCTGGAAGTCAACACTGCTAAACATTTCTT
AGTGGTTGTCTGTTCCACCAAAGTTTCAGTACCATCTATAACAATAAGCTTTTCAAGAAATGGCTGAC
```



[View online »](#)

CTAGAAAATCTCAGCAAGCTGACCGGAGTTTGTCCACAATCCAATGTGCAATTTGACTTCCTCACTGTA
 AGAGAAAACCTCAGACTCTTTGCTAAAATAAAAGGGATTCTGCCACAAGAAGTGGATAAAGAGATACAA
 AGGGTTCTGCTGGAATTGGAAATGAAAAATATTCAGGATGTTCTTGTCTAAAACCTTAAGTGGTGGACAG
 AAAAGAAAGCTAACCTTTGGGATTGCCATTTTAGGAGATCCTCAGATTTTCTGTGGATGAACCAACT
 GCTGGATTGGATCCCTTTTCAAGACACCAAGTATGGAACCTTCTGAAAGAACGCAAAACAGACCCGGTG
 ATCCTCTTCAGTACCCAGTTCATGGATGAGGCCGACATCCTGGCGGACAGGAAAGTATTTCTCTCCCAA
 GGGAAGCTAAAGTGCAGCGGCTCTTCTTTGTTTCTAAAGAAGAAATGGGGATTGGATATCACTTAAGC
 TTGCAGTTAAATGAAATATGTGTTGAGGAAAACATAACATCACTTGTTAAACAGCACATCCCTGATGCC
 AAATTATCAGCCAAAAGCGAAGGAAAACCTATTTATACATTACCCTTAGAAAAGAACAAATAAATTTCCA
 GAACCTTACAAGGATCTTGATAGCTATCCTGACCTAGGAATTGAGAATTATGGTGTTTCCATGACAACT
 TTGAATGAAGTATTCCTGAAGCTAGAAGGAAAATCTACAATTAATGAATCGGACATTGCTATTTGGGA
 GAAGTACAAGCGGAAAAGCTGACGACACTGAAAGGCTTGTGAGATGGAACAAGTCTCTCTTCACTT
 AACAAGATGAGAAAGACAATAGGTGGTGTGGCTCTCTGGCGACAGCAAACTGCGCAATTGCAAGGGTT
 CGCTTGTAAAGTAAAGCATGAAAGAAAAGCTCTTTAGCACTGCTATTAATTCTAATGGCTGGATTT
 TGCCCTCTTCTGTGGAGTATACCATGGTGAAAATATATCAAAACAGTTACACCTGGGAACCTTCTCCT
 CATTTGTATTTCCCTGTCTGGACAACAACCCATGACCTCTCACTCAACTACTGATCATCAATAAA
 ACAGGGGCAAGCATTGATGACTTTATACAGTCTGTGGAGCACCAGAACATAGCTTTAGAAGTGGATGCA
 TTTGGAAGTAGAAATGGCACAGATGACCATCTTATAATGGAGCCATCACAGTGTGTTGAATGAAAAG
 AATTACAGCTTTTCGTTAGCATGCAATGCCAAAAGATTGAATTGCTTCCCAGTTCCTATGGACATTGTT
 AGTAATGGGCTACTTGGAAATGGTTAAACCATCAGTACATATCCGAAGTAAAGAAGTACATTTTGGAG
 AATGGACAGGACAATCCAATCGGATTCCTGGCATATATCATGTTCTGGCTGGTTTTAACATCGAGTTGC
 CCACCTTACATTGCCATGAGCAGCATCGATGATTATAAGAACAGAGCTCGGTCCCAGCTACGGATTTCC
 GGACTCTCCCCTCTGCTTACTGGTTTGGCAGCGCTGGTGGATGTTTTCCCTGTACTTCTTGTGTTCTC
 GTTTTATATATTTAATGAGCTACATTTCAAACCTTCAAGACATGCTACTTACAATAATCATATTATT
 CAAATCCCATGTGCTGTTGGTTATTCCTTTCCCTCATCTTCATGACATACGTGATTTCCCTCATCTTT
 CGCAAGGGGAGAAAAATAGTGGCATTGGTCAATTTGTTTCTATGTTGCACTGTATTCTCTGTGGCT
 GGATTTGCGTTCAGTATCTTCGAAAGTGATTTCCATTTATCTTCACTTTTTTAATACCACCTGCCACA
 ATGATTGGCTGTTTGTCTTATCTTCTCATCTTCTTTTTCTTCTCTTTTTCTGAAGAACGAATGGAT
 GTACAGCCATTTCTGGTATTCTAATTCCTTTCCCTTCAATTTATCATTCTTTTACTCTTCGATGT
 CTGGAATGGAAGTTTGGAAAGAAATCAATGAGAAAGGATCCTTTCTTTAGAATTTCTCCAAGAAGTAGT
 GATGTGTGTCAAATCCAGAAGAACCAGAAGGAGAGGATGAAGATGTTCCAGATGGAAGAGTGAAGACA
 GCAATGCCTTGAATTCTACTAATTTTGTGAGAAAGCCAGTCACTTGGCAGCTGTCTACGCAAGGAG
 TATGCAGGGAAGAGGAAAGGCTGTTTTTCCAAGAGGAAGAATAAGATAGCCACGAAATGTCTCCTTC
 TGTGTTAGAAAAGGTGAAGTTTTAGGATTATTAGGACACAATGGAGCTGGTAAAAGCACATCCATTAAG
 GTGATAACTGGAGACACAAAACCACTGCTGGACAAGTGTACTGAAAGGGAGCGGTGGAGGGGATGCC
 CTGGAGTTCCTGGGGTACTGCCCTCAGGAGAACGCGCTGTGGCCCAACCTGACAGTGAGGCGACCTG
 GAGGTGTACGCCCGCTGAAAGGGCTGAGGAAAGGGGATGCTGAGGTTGCCATCACACGGTATAGTGGAT
 GCGCTCAAGCTGCAGGACCAGCTGAAGTCTCCCGTGAAGACCTTGTGAGGGAAATAAAGAGAAAGCTG
 TGCTTTGTCCTGAGCATACTGGGGAACCCGTCAGTGGTCTTCTGGATGAGCCGTCGACCCGGATGGAC
 CCCGAGGGCAGCAGCAAAATGTGGCAGGCCATCCGGGCCACCTTTAGAAAACAGGAAAGGGGTGCCCTC
 CTAACCACCCACTACATGGCAGAGGCTGAGGCCGTGTGTGACCGAGTGGCCATCATGGTATCTGGGAGG
 TTGAGATGTATCGGTTCCATCCAACACCTGAAAAGCAAATTTGGCAAAGATTACCTGCTGGAGATGAAG
 GTGAAGAACCTGGCACAAGTGGAGCCCCTCCATGCAGAGATCCTGAGGCTTTTCCCCAGGCTGCTCGG
 CAGGAAAGGTAATCCTCTCTGATGGTTTATAAGTTGCCAGTGAAGATGTGCAACCTTTAGCCAAAGCT
 TTCTTCAAATTAGAGAAGGTTAAACAGAGCTTTGACCTAGAGGAGTACAGCCTCTCACAGTCTACCTG
 GAGCAGGTTTTCTGGAGCTCTCAAGGAGCAGGAGCTGGGTGATTTTGGAGGAGTTTTGATCCCTCA
 GTGAAGTGAAGCTCCTCCCCAGGAAGAGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence: >Peptide sequence encoded by RG240185
 Blue=ORF Red=Cloning site Green=Tag(s)

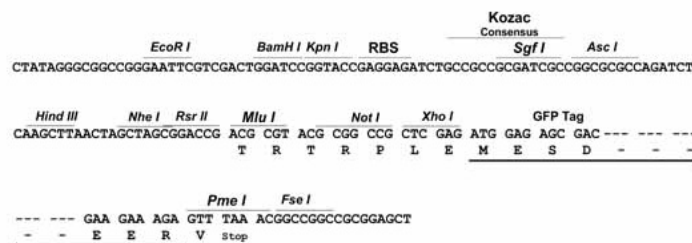
```

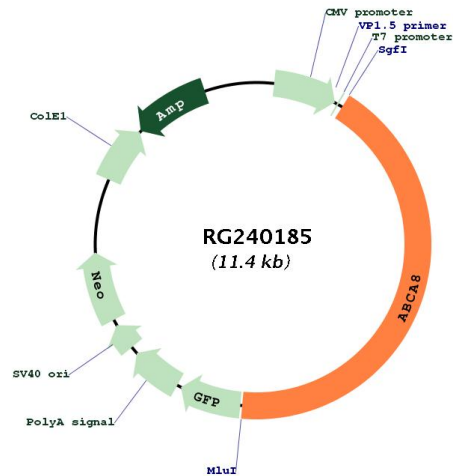
MRKRKISVCQQTWALLCKNFLKKWRMKRESLMEWLNLLLLLCLYIYPHSHQVNDVDFSSLLTMDLGRVDT
FNESRFSVYVTPVNTTQQIMNKVASTPFLAGKEVLGLPDEESIKEFTANYPEEIVRVTFNTYSYHLK
FLLGHGMPAKKEHKDHTAHCYETNEDVYCEVSVFWKEGFVALQAAINAAIEITTNHSMVEELMSVTGK
NMKMHSFIGQSGVITDLYLFCISISFSSFIYYASVNVTRERKRMKALMTMMGLRDSAFWLLSWGLLYAGF
IFIMALFLALVIRSTQFIILSGFMVVSFLFLLYGLSLVALAFLMSILVKKSLFTGLVVFLLTVFWGCLG
FTSLYRHLPASLEWILSLLSPFAFMLGMAQLLHLDYDLNSNAFPHPSDGSNLIVATNFMLAFDTCIYLA
LAIYFEKILPNEYGHRPPFLFKSSFWSQTQKTDHVALEDEMDADPSFHDSFEQAPPEFQKAEAIRIR
NVTKEYKGPDKIEALKDLVFDIYEGQITAILGHSGAGKSTLLNILSGLSVPTKGSVTIYNNKLESMAD
LENLSKLTGVCQPSNVQFDLTVRENRLFAKIKGILPQEVDFEIQRVLLEEMKNIQDVLQNLSSGGQ
KRKLTFGIAILGDPQIFLLDEPTAGLDPFSRHQVWNLKTKRKTDRVILFSTQFMDEADILADRKVFSLQ
GKLCAGSSLFLKKKWIYHLSQLNEICVEENITSLVKQHIPDAKLSAKSEGKLIYTLPLERTNFKP
ELYKDLDSYPLGIENYGVSMITLNEVFLKLEGSTINESDIAILGEVQAEKADDERLVEMEQVLSL
NKMRTIGGVALWRQICAIARVRLKLRKHERKALLALLILMAGFCPLLVEYTMVKIYQNSYTWELSP
HLYFLAPGQQPHDPLTQLLIINKTGASIDDFIQSVEHQNIALEVDAFGTRNGTDDPSYNGAITVCCNEK
NYSFSLACNAKRLNCFVLMDIVSNGLLGMVKPSVHIRTERSTFLENGQDNPIGFLAYIMFWLVTSSC
PPYIAMSSIDDYKNRARSQRLRISGLSPSAYWFGQALVDVSLYFLVVFYIYLSYISNFEDMLTIHII
QIPCAVGSYFSLIFMTYVVISFIFRKGKRNKSGIWSFCFYVVTVFSVAGFAFSIFESDIPFIFTFIIPAT
MIGCLFLSSHLFSSLFSEERMDVQPFVFLIPFLHFIIFLFTLRCLWFKGKSMRKPFFRISPRSS
DVCQNPPEEPEGEDEDVQMERVRTANALNSTNFDEKPVIIASCLRKEYAGKRKGCFSKRKNKIATRNVSF
CVRKGEVLLGLGHNGAGKSTSIKVITGDTKPTAGQVLLKGSGGDALEFLGYCPQENALWPNLTVRQHL
EYVAAVKGLRKGDAAVAITRLVDALKLQDQLKSPVKTLSEGIKRLCFVLSILGNPSVLLDEPSTGMD
PEGQQQMWQAIRATFRNTERGALLTTHYMAEAEAVCDRVAIMVSGRLRCIGSIQHLKSKFGKDYLLKEMK
VKNLAQVEPLHAEILRFPQAARQERYSSLMVYKLPVEDVQPLAQAFFKLEKVKQSFDEEYSLSQSTL
EQVFELESKEQELGDFEEDFDPSVKWLLPQEEP
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

Restriction Sites:
Cloning Scheme:

SgfI-MluI

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN:	NM_001288985
ORF Size:	4863 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).
RefSeq:	NM_001288985.2
RefSeq Size:	6012 bp
RefSeq ORF:	4866 bp
Locus ID:	10351
UniProt ID:	O94911
Cytogenetics:	17q24.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters

MW: 184.1 kDa

Gene Summary: The membrane-associated 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 intracellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ABC1 subfamily. Members of the ABC1 subfamily comprise the only major ABC subfamily found exclusively in multicellular eukaryotes. The encoded protein may regulate lipid metabolism and be involved in the formation and maintenance of myelin. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]