

Product datasheet for **MG212538**

Abca17 (NM_001031621) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abca17 (NM_001031621) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Abca17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG212538 representing NM_001031621 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGTGTTGAAGAAATTAACCTCTCTGGAAGAATTCATCTTAAAGAGGCGGAAGACTCTGA
TAACTCTCCTGGAATGTTGATGCCATTACTGTTTGTGCAATTGATTATATCTCCGTTGAATAGTAT
GCCAAGAAAGAAGTCATCTACCAACTACCGGCAGTTGATGTCAGTTTACTGCCAGTATACTTCTATAAC
TATCCTCTGAAAAGTAAATTTAGTTGGCTTATATCCCTTCCAAAAGTAAACCTTAAAGCTGTCACTG
AAGTGGTGGAGCAAACCTTTGCTGTTGACTTTGAAGTTCTAGGCTTTCCTTCAGTGCCTTATTTGAAGA
CTATATAATTAAGGATCCCAAGTCTTTCTACATACTGGTGGGAATTATTTTCCACATGACTTCAATAGC
AGCAATGAACCTTTGCCACTTGTGGTGAAGTATGACTTGCCTTTAGTTATGTTTCAGAGGAACCTTTGTAT
CACCGCCGAGGCATTTATTTTTCAAGAGGAGATAGAAGGCTGGTGCACAGCCTTTCTTTACCCACCTAA
TCTAAGCCAAGCGCCCGGGAATTTTCATATGCGGATGGAGGAAACCTGGCTACAACAAAGAAGGCTTC
CTGGCCATACAGCATGCCGTAGACAAAGCGATTATGCGGCACCATGCCCCAAAGCAGCACTTAACATGT
TCAAGGATCTCCACGTCTTGGTGCAGAGATTCCCATTTGGGCCCATATCCAGGACCCATTCTTAGTGAT
CCTTCAGAATGAGTTCCCTCTGCTCCTCATGCTCAGCTTCATCTGTGTTGAGCTCATAATCACCAATTCC
GTTTTGTGCGGAGAAGGAGAGGAAACAGAAGGAATATATGAGTATGATGGGAGTGGAGAGCTGGCTGCACT
GGGTTGCTTGGTTCATCAGTCTTTTCTTTCTGTCTCAATTACTGTTTCTGTTATGACCGTACTTTTTTG
CACAAAGATAAACAGAGTGGCTGTGTTTCAGGAACAGTAACCCCTACCCTGATATTTATTTTCTAATGTGT
TTTGCCATCGCCACAATTTCTTTGCATTATGATGAGCACATTCTTCCAAAGAGCCACGTAGGAACTG
TGATAGGTGGCACTGTCTTCTTCTCACTTATCTTCCCTACATGTACATCACTTTCAGCTACCACCAGAG
GACTTACACCCAGAAGATACTCTTGCCTCTTCTCCAATGTTGCCATGGCAACGGGAGTCCGGTTCATA
TCTCTGTTTGAAGCAGAAGGCACAGGCATCCAATGGAGGAACATAGGCAGTGTCTGGGAGACTTCAGCT
TTGCTCAGGTGCTGGGGATGCTCTTGTGGAAGTCTTTTGTACTGTCTGATAGCCTTTTGGTGGAGTC
TCTCTTCCCAAGAAAGTTTGAATACCTAAGTCTTGGTACATCTTGGCAAGAAGCCGTTCCAGAGATA
CCGCCACTTTTGAATATTGGGGATCCTGAGAAACCGTCAAAGGGAATTTTCAGGATGAGCCAACAA
ATCAGATGAACACAATTGAAATCCAACATCTGTATAAGGTGTTCTATTCCGGAAGGAGTAACGTACAGC



[View online »](#)

CATCAGAGATCTGAGCATGAACCTGTACAAGGGGCAGGTCACTGTTCTTCTGGGACACAACGGAGCAGGG
 AAGACCACCGTCTGCTCTGTTCTGACAGGTCTCATTACTCCATCAAAAAGGACATGCATATATCCATGGAT
 GTGAAATTTCAAAAGACATGGTTCAAATTAGGAAGAGCCTGGGCTGGTGCCACAGCATGACATTTTATT
 TGATAACTTTACAGTAAGTACCACCTTTATTTCTACGGTCAGCTGAAAGGTCTGTCTCCTCAGGACTGT
 CACGAGCAAACCCAGGAGATGCTGCATCTGCTTGGTCTGAAGGACAAGTGGAACTCAAGGTCCAAGTTCC
 TGAGTGGGGGCATGAAGCGCAAGCTCTCCATTGGCATCGCCCTCATAGCGGGCTCTAAGGTGCTGATTTT
 GGATGAGCCACCTCAGGCCTGGACTCCCCCTCCAGGAGGGCCATCTGGGACCTTCTCCAGCAGCAGAAG
 GGTGACCGCACCGTCTGCTGACCACTCACTTCATGGACGAAGCTGACCTGCTGGGAGACCGCATCGCCA
 TCTTGGCCAAGGGGAGCTCCAGTGCTGCGGGTACCATCGTTCTCAAGCAGAAATACGGTGCAGGATA
 CTATATGACTATAATAAAAAACCTCTCTGCGACACCTCAAAGCTCTCTGAAGTAATTTATCACCACATA
 CCGAATGCAGTTTGGAGTCCAACATTGGAGAAGAAATGATAGTCACACTTCCTAAGAAGACCATAACACA
 GGTTTGAGGCTCTATTCAATGACTTGGAAGTGAAGCAGACAGAGCTGGGAATCTCTACTTTTGCCACCTC
 TGTAACCACTATGGAGGAAGTTCATACGAGTTTGAAGTTGGTGATCCAGCAGCAAAATGTCTTAACC
 GAGAAGCGACACTCTCTCATCCTTCCCCGGCATCACAGAGTTCCTGTTGACAGAATTAATGTCTCC
 ACTCAGGGACCTCCCAGTGAGCACTGAACAGCCAATGAGACTAAATACGGGCTTCTGTCTCTCTGCCA
 ACAATTCTACGCCATGCTCTTGAAAAAGATCACGTATTCTCGGCCAACTGGATGCTGGTGCTCTCGGTG
 CAGGTTCTGCTGCCGCTGGCGATCATTATGTTAAGCCTCACCTTTTTTAACCTCAAATTAAGGAACTGG
 ATAACGTGCCACTGGAGCTGACTTTACAAACGTACGGCCAGACCATTTGTTCCATTTTTATTGCCGAGAA
 TTCTCACCTGGACCTCACTTTTCAGATGACTTTGTAAGAAATGCTTGTGGCCGACGGGCAGGTTCCTTTG
 CGTATTCAAGGTTCTGTAGAGGACTTCTCCTGAAGAAGGCAAAGGAGGCTCCTGAGGGCTTTGATAAGC
 TCTACGTGGTGGCAGCTTCTTTGAAGATGTGAATAACCACACGACAGTGAAGGCGCTGTTCAACAACCA
 GGCCTACCACTCCCCTAGCCTGGCTCTGACTCTGGTGGACAATCTTCTCTCAAGTTGCTTTCTGGAGCC
 AATGCTTCCATTACCACAACCACTATCCTCAGCCTCAGACAGCCATCGAGGTCTCAGAGTCAATCCTGT
 ACCAGGGCCCTAAAGGACACTACCTTGTGTCACTTTCTTTTTGGAATAGCTTTCTGTCAAGCTCCTT
 CTCCATCTTGACAGTCGAGAGAGAAGAGCGTTAAGTCTAAGAGCCTCCAGTTTGTGAGTGGAGTCAGCAG
 GCTGTGTTCTGGCTCTCAGCTCTGCTGTGGGACCTCATCTCTTTCCTCGTTCCCACTCTGCTGCTGGTGT
 TGGTGTCTGTGGTATAAGGAAGAGGCTTTTGCACACCAGAGAGCATCCAGCGGTGGTCTTGATAAT
 GATGCTCTACGGCTGGGCTGTATCCCTTTGGTGTACACGGTCAGCTTCTCCTTTAACACTCCTGGCAGT
 GCATGTGTGAAGCTCGTGGTGTGCTCACCTTCTGAGCATCAGCCCTGTGGTCTCGTCACCGTCACCA
 GTGAGAAAGATCTTGGCTACACGGAACCTCAGACTCCTGGATCATATTTTCTAATTCTTCTGGACA
 TTGCCTGGGAATGGCCTTGTCCAACCTGTACTATAACTTTGAGCTGAAAAAGTTTTCAGTGTCTAAGAAC
 TTGAGTGATATTGACTGCAATGATGTTTTAGAAGGATATGTGGTCCAAGAGAACATCTACGCCTGGGAAT
 CTCTGGGGATAGGAAAGTACCTGACAGCCCTGGCCGTCTTAGGACCTGTGTACATCACCATGCTTTTCT
 CACTGAAGCCAATGCATTCTATGTACTGAAATCCAGGCTCTCTGGCTTCTTCCCTTCTTCTGGAAGGAA
 AAATCGGGAATGATCTTTGATGTAGCAGAACCTGAAGATGAAGATGTTCTGGAGGAGCGGAAACCATCA
 AGCGTTATTTGGAACGTTAGTAAAGAAAAACCGCTTGTGTTAAAGAAGTGTCAAAGGTCTATAAAGA
 CAAGGTACCCCTGTTGGCTGTGAACAAGGTGCTCTTGTGTTAAAGAAGAAGATGCTTTGGCCTTCTT
 GGTCTCAATGGAGCTGGGAAGACTTCCATTTTCAACATGCTGACCAGCGAGCAGCCCATCACCTCTGGGG
 ATGCCCTTGTCAAGGGTTTCAACATCAAGTCTGACATAGCGAAGGTGCGGCAGTGGATTGTTACTGTCC
 TGAGTTTGATGCCCTTGCTAAACTTCATGACAGGACGAGAGATGCTTGTATGTATGCCCGTATCCGGGGC
 ATCCCTGAATGCCACATTAAGCCTGTGTGACCTGATCCTTGAGAACTTACTCATGTGTGTGTGTGCAG
 ACAAGCTGGTGAAGACCTATAGTGGTGGTAACAAGCGCATGCTAAGCACTGGCATTGCCCTCGTTGGAGA
 GCCTGCAGTCATCTGTAGATGAACCGTCCACTGGCATGGACCTGTGGCTCGGCGCCTGCTGTGGGAC
 ACTGTGGAACGGGTCCGTGAGTCTGGCAAGACCATCGTCATCACCTCCCACAGTATGGAGGAGTGTGAAG
 CCTTATGTACCAGGCTGGCCATCATGGTACAGGGCCAGTTCAAGTGCCTGGGAGCCACAGCACCTCAA
 GAGCAAAATTTGGCATCAGCTACTCCTGCAGGCCAAGGTCCGGAGGAAATGGCAGCAGCAGATGCTAGAG
 GAGTTCAAGGCCTTTGTGGACCTGACCTTCCCAGGCAGCAATTTGGAAGACGAGCACCACAAACATGCTTC
 AATATTACCTGCCTGGCCAAACCTCAGCTGGGCGAAGGTGTTTAGCATTATGGAACAAGCCAAGAAGGA
 TTACATGTTGGAAGACTACTCCATCAGCCAGCTATCCCTAGAGGACATCTTCTGAACCTTACCAGACCA
 GAGTCTCCACTAAAGAACAGATCCAACAAGAGCAAGCTGTCTGGCCAGCCCTCACCACCTCTAACT
 CTAGGCCATCTCGAGTCTCCATCACGTCTTCTTCTCGGACTCCCAAAACCACTTCCATCCCCACCTCC
 CTCAGAGCCCATCCTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG212538 representing NM_001031621
Red=Cloning site Green=Tags(s)

MEVLKKLLKLLWKNFILKRRKTLITLLEMLMPLLFCAIVLYLRLNSMPRKKSSSTNYPADVSVLLPVYFYN
YPLKSKFQLAYIPSKSETLKAVTEVVEQTFQVDFEVLGFPSVPLFEDYI IKDPKSFYILVGIIFHHDFNS
SNEPLPLVVKYDLRF SYVQRNFVSPRHLFFQEEIEGWCTAFLYPPNLSQAPREFSYADGGNPGYNKEGF
LAIQHAVDKAIMRHHAPKAALNMFKDLHVLVQRFPGPHIQDPFLVILQNEFPLLMLSFICVELIITNS
VLSEKERKQKEYMSMMGVESWLHWVAFITFFISVSITVSMTVLFCTKINRVAVFRNSNPTLIFIFLMC
FAIATIFFAFMMSTFFQRAHVGTVIGGVFFFTYLPYMYITFSYHQRTYTKILSCLFSNVAMATGVRFI
SLFEAEGTGIQWRNIGSVWGDFSFAQVLGMLLLDSFLYCLIAFLVESLFRKFGIPKSWYIFAKKPVPEI
PPLLNIQDPEKPSKGNFMQDEPTNQMTIEIQHLYKVYFSGRSKRTAIRDL SMNLYKGQVTVLLGHNGAG
KTTVCSVLTGLITPSKGHAYIHGCEISKDMVQIRKSLGWCPQHDILFDNFVTVDHLYFYGQLKGLSPQDC
HEQTQEMLHLLGLKDWNSRSKFLSGGMKRKLSIGIALIAGSKVLILDEPTSGLDSPSRRAIWDLLQQQK
GDRTVLLTTHFMDEADLLGDRIAILAKGELQCCGSPSFLKQKYGAGYMTI IKTPLCDTSKLSEVIYHHI
PNAVLESNIGEEMIVTLPKKTIHRFEALFNDLELRQTEL GISTFATSVTMTMEEVFIRVCKLADPSTNVL T
EKRHSLHPLPRHHRVPVDRIKCLHSGTFPVSTEQPMRLNTGFCLLCQQFYAMLLKKITYSRNWMVLVLSV
QVLLPLAIIMLSLTFNFKLRLKLDNVLELTLQTYGQTI VPFIAENSHLDPQLSDDFVKMLVAAGQVPL
RIQGSVEDFLLKKAKEAPEGFDKLYVVAASFEDVNNHTTVKALFNNQAYHSPSLALTLVDNLLFKLLSGA
NASITTTNYPQQTAEIVSESIYQGPKGHYLVNFLFGIAFLSSSFILTVGEKSVKSKSLQFVSGVST
AVFWLSALLWDLISFLVPTLLLVFLVFLWYKEEAF AHHESIPAVLIMMLYGWAVIPLVYTVSFSFNTPGS
ACVKLVVMLTFLSISPVVLTVTSEKDLGYTELSDSLDHIFLILPGHCLGMALSNLYNFELKKFCSAKN
LSDIDCNDVLEGVVQENIYAWESLGIGKYLTAVALGPVYITMLFLTEANAFYVLKSRLSGFFPSFWKE
KSGMIFDVAEPEDEDVLEEAETIKRYLETLVKKNPLVVKEVSKVYKDKVPLAVNKVSFVVEKEECFGLL
GLNGAGKTSIFNMLTSEQPITSGDAFVKGFNIKSDIAKVRQWIGYCPEFDALLNFMGTREMLVMYARIRG
IPECHIKACVDLILENLLMCVADKLKTYSGGNKRMSTGIALVGEPVILLDEPSTGMDPVARRLLWD
TVERVRESGKTI VITSHSMEECEALCTRLAIMVQGQFKCLGSPQHLKSKFGISYSLQAKVRRKWQQQMLE
EFKAFVDLTFPGSNLEDEHQNMLQYYLPGPNLSWAKVFSIMEQAKKDYMLEDYSISQLSLEDIFLNFTRP
ESSTKEIQEQEAVLASPPSPNSRPISSPPSRLSSPTPKPLSPPPPSEPILL

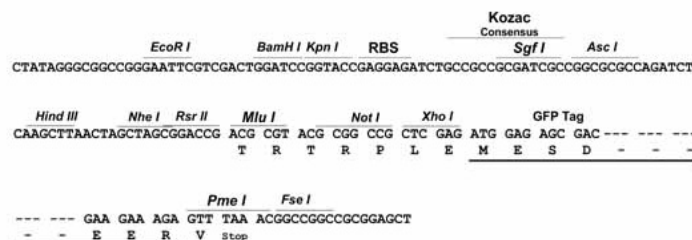
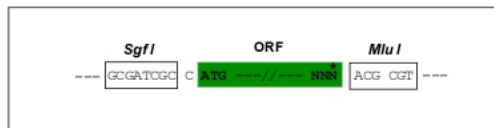
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



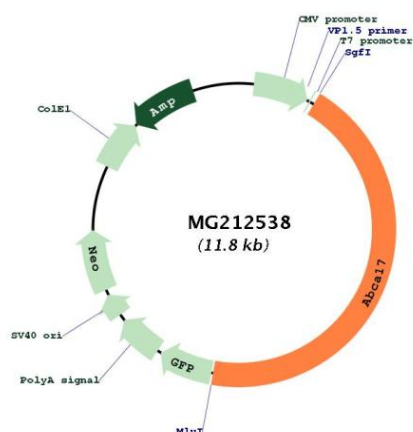
ACCN:	NM_001031621
ORF Size:	5199 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001031621.3
RefSeq Size:	5202 bp
RefSeq ORF:	5202 bp
Locus ID:	381072

UniProt ID: [E9PX95](#)

Cytogenetics: 17 A3.3

Gene Summary: Promotes cholesterol efflux from sperm which renders sperm capable of fertilization (PubMed:22237709). Has also been shown to decrease levels of intracellular esterified neutral lipids including cholesteryl esters, fatty acid esters and triacylglycerols (PubMed:15810880). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG212538