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ABCA17P         MTVFRKLKLLRWKDFILKLF*AVLQCL--------CLNVI*LMIPKLSTYWQELFLTTASMTAMDLCH----LRLSINCASVTFRRILYWGRIYFFKMT*
Abca17          MEVLKKLKLLLWKNFILKRRKTLITLLEMLMPLLFCAIVLYLRLNSMPRKKSSTNYPAVDVSLLPVCFYNYPLKSKFQLAYIPSKSETLKAVTEVVEQTF
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ABCA17P         KAGAHP--FFTLPIHA----KNPGNFHLLLG-----------EVLDTTKKASWPYSML---WIKFS-----------CGTML----TMQ*FT-------
Abca17          AVDFEVLGFPSVPLFEDYIIKDPKSFYILVGIIFHHDFNSSNFPLPLVVKYDLRFSYVQRNFVSFPRHLFFQEEIEGWCTAFLYPPNLSQAPREFSYADG
                101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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ABCA17P         ------------------------CLRISMYL*RDSHM------------DP---ISRTGSS*SFRMSFLCS---------------------------
Abca17          GNPGYNKEGFLAIQHAVDKAIMRHHAPKAALNMFKDLHVLVQRFPFGPHIQDPFLVILQNEFPLLLMLSFICVELIITNSVLSEKERKQKEYMSMMGVES
                201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                178
ABCA17P         ---------SYSASCTLSSSSSVPLYWRKRKD*RI-------------TC-----------A*WDWKAGYTGLLGSSRSSFLSSLLFLS*PFSSAQRSYS
Abca17          WLHWVAWFITFFISVSITVSVMTVLFCTKINRVAVFRNSNPTLIFIFLMCFAIATIFFAFMMSTFFQRAHVGTVIGGTVFFFTYLPYMYITFSYHQRTYT
                301                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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ABCA17P         PYKWMCI----------------------CQWI*-----------------------------------------------------------------
Abca17          QKILSCLFSNVAMAMGVRFISLFEAEGTGIQWRNIGSVWGDFSFAQVLGMLLLDSFLYCLIAFLVESLFPRKFGIPKSWYIFAKKPVPEIPPLLNIGDPE
                401                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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ABCA17P         -----NFTRD----------ISH*EE-----------------------------------------PGLV-----------------------------
Abca17          KPSKGNFMQDEPTNQMNTIEIQHLYKVFYSGRSKRTAIRDLSMNLYKGQVTVLLGHNGAGKTTVCSVLTGLITPSKGHAYIHGCEISKDMVQIRKSLGWC
                501                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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ABCA17P         PQHDVLSDKLTVAEHLSFYGQLKGLSRQKCPE-VKQVLHIIGLEDKWNSRSRFLSGGMSRKLSIGIALIAGSKV*I---SIY*LGTEAGRA---------
Abca17          PQHDILFDNFTVTDHLYFYGQLKGLSPQDCHEQTQEMLHLLGLKDKWNSRSRFLSGDMKRKLSIGIALIAGSKVLILDEPTSGLDSPSRRAIWDLLQQQK
                601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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ABCA17P         --------------------------GHLQLWG----------------------LC-----------HDHGGCLHKGL---------------------
Abca17          GDRTVLLTTHFMDEADLLGDRIAILAKGELQCCGSPSFLKQKYGAGYYMTIIKTPLCDTSKLSEVIYHHIPNAVLESNIGEEMIVTLPKKTIHRFEALFN
                701                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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ABCA17P         -----------------------YVGRCQYSCP------KHQTSLYPSPALLSRIPVDRIKHLHSRTFSIRTGLPIKPNTGFSLLCQQFYAMLLKKVTY
Abca17          DLELRQTELGISTFATSVTTMEEVFIRVCKLADPSTNVLTEKRHSLHPLPRH-HRVPVDRIKCLHSGTFPVSTEQPMRLNTGFCLLCQQFYAMLLKKITY
                801                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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ABCA17P         S*HNWMLMLSIQILVPLVIIMLSLTFFNFKERSIENVPLELTLKTYGQTIVPFFISQNSRLDPQLSERFANMFMVEGQIPLEVLGSVDEFLLKKAKEEPE
Abca17          SRRNWMLVLSVQVLLPLAIIMLSLTFFNFKLRKLDNVPLELTLQTYGQTIVPFFIAENSHLDPQLSDDFVKMLVAAGQVPLRIQGSVEDFLLKKAKEAPE
                900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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ABCA17P         DFDKLYLVAASFEDVGNHTIVTALFNNQAYHSSALALALLDNFLLKLLSGARASITAANHPQPQPAREDSENFLYQEPKGHYLVINLLFGLAFLSSSFSM
Abca17          GFDKLYVVAASFEDVNNHTTVKALFNNQAYHSPSLALTLVDNLLFKLLSGANASITTTNYPQPQTAIEVSESILYQGPKGHYLVVNFLFGIAFLSSSFSI
                1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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ABCA17P         LTVRERRVKAKLVQFINGVYVATFWLSTLLWDLISFLIPSLLLVV-------------------------------------------------------
Abca17          LTVGEKSVKSKSLQFVSGVSTAVFWLSALLWDLISFLVPTLLLVLVFLWYKEEAFAHHESIPAVVLLMMLYGWAVIPLVYTVSFSFNTPGSACVKLVVML
                1100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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ABCA17P         ----------------------------------------------------------------------------------------------------
Abca17          TFLSISPVVLVTVTSEKDLGYTELSDSLDHIFLILPGHCLGMALSNLYYNFELKKFCSAKNLSDIDCNDVLEGYVVQENIYAWESLGIGKYLTALAVLGP
                1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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ABCA17P         ----------------------------WR--------------------------------------------------------------------
Abca17          VYITMLFLTEANAFYVLKSRLSGFFPSFWKEKSGMIFDVAEPEDEDVLEETEAIKHYLETLIKKNPLVVKEVSKVYKDEVPLLAVNKVSFVVKEGECFGL
                1300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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ABCA17P         ------------------------------------------WIGYCPQFDALLNFMTGHEMLVMYAQIGGIPEHPISACVDQILEDLVMYMYANKLVKT
Abca17          IGLNGAGKTSIFNMLTSEQPITSGDAFVKGFNIKSDIAKVRQWIGYCPEFDALLNFMTGREMLVMYARIRGIPECHIKACVDLILENLLMCVCADKLVKT
                1400 Walker A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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ABCA17P         YS-------------------------------------------------------------MEECEALCSRRPSWCRGSSSAWAAPSTSRASSAVATPCGPR
Abca17          YSGGNKRMLSTGIALVGEPAVILLDEPSTGMDPVARRLLWDTVERVRESGKTIVITSHSMEECEALCTRLAIMVQGQFECLGSPQHLKSKFGIGYSLQAK
                1500 Signature Walker B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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ABCA17P         CFVKGSRRCWRSSRPSWT*PFQAAFLKTSTKAW------SITICWAATSAGRS*AHIFDVTHFLGCLALWSKPRSTCWTTTQQSGHHGGRLPELRMPC-A
Abca17          VFRKWQQQMLEEFKAFVDLTFPGSNLEDEHQNMLQYYLPGPNLSWAKVFSIMEQAKKDYMLEDYSISQLSLEDIFLNFTRPESSTKEQIQQEQAALASPS
                1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                1699
                891                                920
ABCA17P         PGPKRRPTRA--SRAGGLLIVLAASFPAS--LSA
Abca17          PPSNSRPISSPPSRLSSPTPKPLPSPPPSEPILL
                1700                               1733
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