

Product datasheet for **RC216678**

Atherin (SAMD1) (NM_138352) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atherin (SAMD1) (NM_138352) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atherin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC216678 ORF sequence, **codon optimized**.
Due to the complexity of NM_138352, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCGGGCTCCCGACTGCCACCACCCGAGACTGCCGCCGCCGAACCACCGCGCCGCGAGCCTCT
 CATCTGCTGCATCCACATTATCAGGAATGGATCCTGGATACAATCGATTCCCTCAGATCTAGGAAAGC
 CCGCCCGACCTCGAGAGAATCTGTCGGATGGTCCGAGACGACACGGGCCGAGCCTGAGCGGACAAGG
 GCCGAGTTGAAAAGCTGATCCAGCAGCGGGCTGTGCTGAGAGTGAGCTATAAGGGCTCTATCTTTATC
 GCAATGCCGCAAGGGTCCAGCCCCCTCGCCGCGGGGCGACCCCCCGCTCCGCCAAGGGCCCAAGAGG
 GGCACCTGCTGCCGCCGCTGCTGCAGCACCCGCCCAACTCCAGTCCACCGCTCCACCAGCCCCGTGT
 GCCGCCGCCGCTCCCGCTCGAGCGCCAGAGCGGCTGCCGCCGCTGCAACTGCCCGCCAAGCCCTGGGC
 CCGCACAGCCGGTCCACGCGCTCAGCGGGTGCACCCCTCGCCGCCACCACCAGCCCCGCGGCTCC
 CCCAGCAGTGGCTCCTCCAGTGGGCCCCGAAGAGCCCCCCCCCGCAGTCGCGCTCGGGAACCA
 CTGCCCTCCCCCAGCCTCTGCCCGCTCAGCAGCAACAGCCACCTCTCCCAGCCCCAGCCTC
 CCCCCGAAGGAGCCGTTCCGCGCGGAGGCGCAGCCAGACCGGTGCTACTCCGGGAGTCTGTGAGGTA
 CCTGGGTGGAAGTGGTGGAGCAGCGGCAGACTCACCCGCGGTGGGTGCTCTGGCACTGCCAGGGGAGACAGCCCG
 GCAGCAGCTAGAGCCGCTGGAAGGACCCGCTGGGTGCTCTGGCACTGCCAGGGGAGACAGACCCCG
 GGAGAGCCCTCCGCCGCTTCTGCGCGACCTAGTCGATCAAAGAGAGGGGCGAGGAGCCGCTGTTGA
 GAAAGAAGAGGAGGAAGATGACGATGAGGATGAAGATGAGGAAGACGACGTGTCTGAAGTTCCGAAGTC
 CCAGAGAGTGACCGCCAGCGGGCGCCAGCACCACCAGCTGAACGGCGAAAGAGGTCCGCACTGTTGA
 AGGAACGGGTGAAGGAGTGACACCATGTGGGCCACACCAGGGCCAGGACGAGGGGCGCGGGCTGCCCC
 AGGGTCCGGCACCAGGAGGTCTTTCAATGGCCGCAATGAATAAGGAGGGCGGACCGCATCTGTGGCC
 ACTGGTCCGACTCTCCATCTCCAGTTCCTTCCACCCGCAAGCCGGCCCTTCCCGGCGCAGACGGCA
 CACCCTTTGGATGCCCCAGGGCGGAAGGAAAACCGAGTGATCCAGTCGAGTGGACCGTGTGACGT
 GGTAGAATACTTACAGAAGCTGGCTTCTGAGCAGGCAACCGATTCCAGGAACAGGAAATAGACGGT
 AAGTCACTGCTGCTCATGCAGAGGACCGACTGACTGACCGGCTGTCAATTAGGCTGGGCCCCGACTCA
 AGATCTACGAACACCATATTAAGTGCTCCAGCAGGGCCACTTCGAGGACGATGATCCCGACGGTCTCT
 TGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

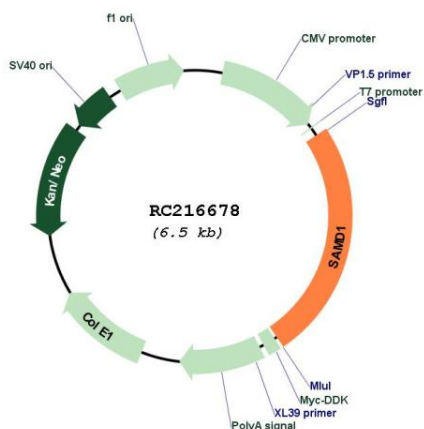
>RC216678 representing NM_138352
 Red=Cloning site Green=Tags(s)

MAGPPALPPPETA AAAATTA AAASSSAASPHYQEWILDTIDSLRSRKARPDLERICRMVRRRHGPEPETER
 AELEKLIQRAVLRVSYKGSISYRNAARVQPPRRGATPPAPPRAPRGAPAAAAAAPPPTPAPPPPPAPV
 AAAAPARAPRAAAAAATAPPSPGPAQPGPRAQRAAPLAAPPPAPAAPPVAPPAGPRRAPPVAAREPP
 LPPPPQPPAPPQQQPPPPQPPPEGGAVRAGGAARPVSLREVVRVYLGSGGAGGRLTRGRVQGLLEEE
 AAARGRLERTRLGALALPRGDRPGRAPPAASARPSRSKRGEERVLEKEEEEEDEDEDDVSEGSEV
 PESDRPAGAQQHQLNGERGPQSAKERVKWTPCGPHQQQDEGRGPAPGSGTRQVF SMAAMNKEGGTASVA
 TGPDPSPVPLPPGKPALPGADGTPFGCPPGRKEKPSDPVEWTVM DVVEYFTEAGFPEQATAFQEQEIDG
 KSLLLMQRTDVL TGLSIRLGPALKIYEHHIKVLQGGHFEDEDDDPDGLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Cytogenetics: 19p13.12
MW: 56.1 kDa
Gene Summary: May play a role in atherogenesis by immobilizing LDL in the atherial wall.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC216678