OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR231782

Aatk (NM_001198785) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aatk (NM_001198785) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aatk
Synonyms:	AATYK; aatyk1; mKIAA0641
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR231782 representing NM_001198785 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCTCATCGCGCTGCTGGCCCTGGCCATGTCGTCGTCCTTCTTCAACCCCAGCTTTGCCTTCAGCTCCC ACTTCGACCCGGACGGTGCCCCGCTCAGTGAGCTGTCCTGGTCCTCGTCCCTCGCGGTGGTAGCCGTGTC CTTCTCTGGAATCTTCACTGTCGTCATCCTCATGCTGGCCTGCCTGTGTTGTAAGAAGGGCGGCATCGGG TTCAAGGAGTTTGAGAATGCTGAAGGGGACGAGTATGTGGCCGACTTCTCGGAGCAGGGCTCCCCGGCTG CAGCTGCACAGACCGGCCCCGATGTGTATGTCCTGCCCCTCACCGAGGTCTCCTTACCCATGGCCAAGCA GCCGGGTCGCTCCGTGCAACTTCTCAAGTCCACGGACCTGGGCCGGCACAGCCTCCTGTACTTAAAGGAG ATTGGCCACGGCTGGTTTGGGAAGGTGTTTTTGGGGGAGGTACACTCGGGCGTCAGTGGCACGCAGGTGG TGGTGAAGGAGCTGAAGGTGAGCGCCAGCGTGCAGGAGCAGATGCAGTTCCTGGAGGAGGCGCAGCCCTA CAGGGCCCTGCAGCACAGCAACCTGCTCCAGTGCCTGGCCCAGTGTGCTGAAGTGACCCCCTACCTGCTG GTTATGGAGTTCTGTCCACTGGGGGACCTCAAAGGTTATCTACGGAGCTGCCGGGTGACAGAGTCCATGG CGCCTGACCCACTTACCTTGCAGCGCATGGCGTGCGAGGTGGCGTGTGGCGTCTTGCATCTACATCGACA CAACTATGTACACAGTGACCTGGCCCTGAGGAACTGCCTGCTTACGGCTGACCTGACAGTGAAGGTTGGT GATTATGGCCTGTCGCATTGCAAATACAGGGAAGACTATCTCGTGACCGCTGACCAGCTGTGGGTGCCGC TGCGCTGGATCGCGCCAGAGCTGGTGGACGAGGTTCACGGCAACCTGCTGGTGGTGGACCAGACCAAGAG CAGCAACGTGTGGTCCCTGGGTGTGACCATCTGGGAGCTTTTCGAGTTGGGTGCGCAGCCGTACCCCCAG CACTCGGACGGGCAGGTGCTGGCTTACGCCGTCCGGGAGCAGCAGCTTAAGTTGCCCAAGCCCCAGCTGC AGCTGGCTCTATCTGATCGATGGTACGAGGTGATGCAGTTCTGCTGGCTGCAGCCAGAGCAGAGGCCCAC AGCTGAAGAGGTTCATCTACTGCTGTCCTACTTGTGTGCTAAGGGCACCACAGAATTGGAGGAGGAGTTT GAGCGGCGCTGGCGCTCCCTGCGGCCCGGGGGCAGCACGGGCCTGGGCTCGGGTTCTGCAGCCCCAGCAG CTGCCACCGCCGCCTCCGCGGAGCTCACCGCTGCCTCGTCTTTCCCGCTGCTGGAGCGGTTCACCAGCGA CGGCTTTCACGTGGACAGTGATGACGTGCTGACGGTCACGGAGACAAGCCACGGCCTCAACTTTGAATAC AAGTGGGAGGCTGGCTGTGGCGCTGAGGAGTACCCACCCTCGGGGGCTGCATCAAGCCCAGGCTCGGCAG

View online »

CGCGCCTGCAGGAGTTGTGCGCGCCTGACAGTTCACCGCCGGGTGTGGTGCCAGTCCTCAGTGCCCACAG
CCCCTCAGTGGGTAGCGAGTACTTCATCCGCCTGGAGGGGGCAGTGCCTGCTGCTGGCCACGATCCAGAC
TGTGCCGGCTGCGCTCCCAGCCCCCAGGCTGTGACTGACCAGGACAATAACTCTGAGGAGAGCACTGTTG
CGTCCCTTGCCATGGAGCCATTGCTGGGCCATGCACCCCCAACTGAGGGTCTGTGGGGCCCCTGTGACCA
CCATTCACATAGGAGGCAAGGGTCACCCTGTCCCTCACGCTCACCCTCTCCTGGGACCCCGATGTTGCCA
GCTGAAGACATAGACTGGGGGTGTGGCTACCTTCTGCCCGCCCTTCTTTGATGACCCACTGGGTGCATCTC
CCTCGGGGAGTCCTGGGGCCCAGCCCTCCCCCAGTGATGAGGAGCCAGAGGAGGGGAAGGTGGGGTTGGC
CGCTCAGTGTGGACACTGGAGCTCTAACATGTCAGCTAACAACAACAGTGCCAGTCGCGACCCAGAATCC
TGGGATCCTGGCTATGTTAGCAGCTTCACAGACAGCTACAGGGACGACTGCTCCAGCTTAGAGCAGACCC
CTCGAGCCTCCCCTGAGGTGGGCCATCTCCTGTCCCAGGAGGATCCCAGAGATTTTCTCCCTGGGCTAGT
AGCAGTCTCCCCTGGTCAGGAGCCAAGCCGTCCCTTCAACCTGCTCCCCCTGTGTCCTGCCAAAGGCCTG
GCACCTGCTGCCTGCCTCATCACATCCCCTTGGACAGAGGGAGCTGTGGGTGGGGCTGAGAACCCCATTG
TGGAACCCAAACTTGCCCAGGAGGCTGAGGGATCTGCTGAACCCCAGCTACCCCTTCCTTCCGTCCCCTC
CCCATCCTGTGAAGGAGCCTCACTTCCCTCGGAGGAGGCAAGCGCTCCTGACATCCTACCTGCCTCACCC
ACACCCGCTGCTGGCAGCTGGGTGACCGTCCCTGAGCCAGCCCCCACCCTGGAGAGCAGCGGCAGTTCTC
TGGGGCAAGAGGCACCCAGCAGCGAGGACGAAGACACGACCGAGGCAACATCAGGAGTCTTCACCGACCT
GTCCAGTGACGGCCCACACACGGAGAAGTCAGGCATAGTACCAGCCTTGCGCAGTCTGCAGAAGCAGGTG
GGGACCCCTGACTCCCTGGACTCTCTGGACATACCGTCCTCAGCCAGTGATGGTGGCTGTGAGGTCTTAA
GCCCATCAGCTGCTGGTCCACCTGGCGGGCAGCCCCGTGCCGTGGACAGTGGCTATGATACAGAGAACTA
TGAGTCTCCTGAGTTTGTGCTCAAGGAGGCCCATGAGTCGAGTGAGCCTGAGGCCTTTGGGGAGCCAGCC
TCAGAGGGTGAGAGCCCAGGGCCCGATCCTCTGCTCTCTGTCTCCCTTGGTGGCCTCAGCAAGAAGAGCC
CCTACCGAGACTCTGCCTACTTTTCAGACCTGGATGCCGAGTCCGAACCCACCTTTGGCCCTGAGAAGCA
CAGTGGGATCCAGGACTCCCAAAAGGAGCAAGACCTGAGGAGCCCACCTAGCCCAGGGCATCAGTCTGTG
CAGGCTTTTCCCAGGTCTGCAGTGTCCAGCGAGGTGCTGTCCCCTCCACAGCAGTCAGAGGAGCCCTTGC
CAGAAGTCCCCAGGCCAGAGCCTCTCGGGGCTCAAGGCCCAGTTGGAGTGCAGCCTGTGCCCGGCCCAAG
TCATTCCAAATGTTTCCCGCTGACCTCCGTTCCACTGATCTCAGAAGGCAGTGGCACGGAGCCCCAGGGT
CCCTCAGGACAGCTGTCAGGGCGAGCCCAGCAGGGGCAGATGGGCAATCCTAGCACACCCAGATCCCCGC
TCTGCCTGGCCCTGCCTGGCCACCCCGGGGCTTTGGAGGGCCGGCCGGAGGAGGATGAGGACACCGAGGA
CAGCGAGGAGTCTGATGAGGAGCTCCGGTGCTACAGCGTCCAGGAGCCCAGTGAGGACAGCGAGGAGGAG
CCGCCAGCGGTGCCCGTGGTGGTGGCTGAGAGCCAGAGTGCCCGAAATCTACGCAGCCTGCTGAAGATGC
CCAGCCTGCTGTCAGAGGCCTTCTGTGACGACCTGGAGCGCAAGAAGAAGGCTGTGTCCTTCTTCGATGA
TGTCACGGTCTACCTCTTTGACCAGGAAAGCCCCACCCGAGAGACTGGGGAGCCCTTTCCCAGCACAAAG
GAATCACTCCCTACGTTCCTGGAGGGTGGCCCCAGCTCACCCAGTGCCACCGGCCTGCCACTGCGGGCTG
GCCACTCTCCTGACAGCTCTGCTCCTGAACCAGGCAGTAGGTTCGAATGGGATGGTGATTTCCCGTTGGT
GCCCGGCAAGGCTGCTTTGGTGACTGAGCTGGATCCTGCTGACCCTGTCCTGGCGGCGCCTCCCACGCCA
GCTGCGCCCTTCTCACGCTTCACCGTGTCACCCACACCTGCCTCCCGCTTTTCCATCACCCACATATCTG
ACTCAGATGCCCAGTCCGTGGGAGGCCCAGCAGCAGGTGCTGGGGGCCGATACACAGAGGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

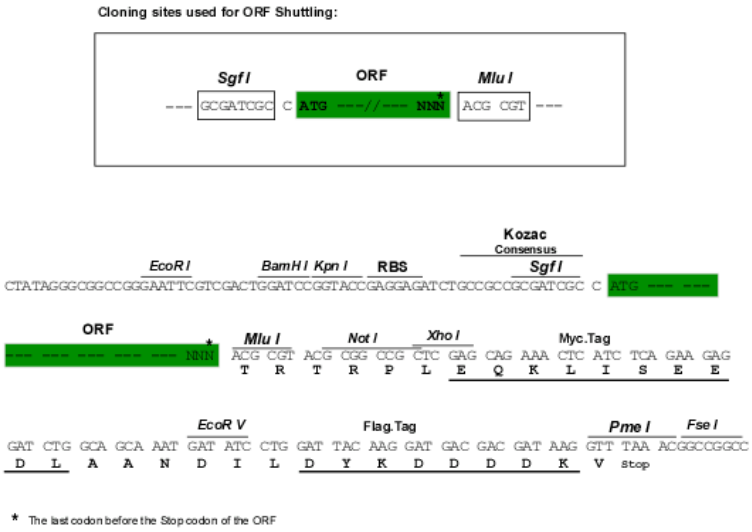
>MR231782 representing NM_001198785
Red=Cloning site Green=Tags(s)

MLIALLALAMSSSFFNPSFAFSSHFDPDGAPLSELSWSSSLAVVAVSFSGIFTVVILMLACLCCKKGGIG
FKEFENAEGDEYVADFSEQGSPAAAAQTGPDVYVLPLTEVSLPMAKQPGRSVQLLKSTDLGRHSLLYLKE
IGHGWFGKVFLGEVHSGVSGTQVVVKELKVSASVQEQMQFLEEAQPYRALQHSNLLQCLAQCAEVTPYLL
VMEFCPLGDLKGYLRSCRVTESMAPDPLTLQRMACEVACGVLHLHRHNYVHSDLALRNCLLTADLTVKVG
DYGLSHCKYREDYLVTADQLWVPLRWIAPELVDEVHGNLLVVDQTKSSNVWSLGVTIWELFELGAQPYPQ
HSDGQVLAYAVREQQLKLPKPQLQLALSDRWYEVMQFCWLQPEQRPTAEEVHLLLSYLCAKGTTELEEEF
ERRWRSLRPGGSTGLGSGSAAPAAATAASAELTAASSFPLLERFTSDGFHVDSDDVLTVTETSHGLNFEY
KWEAGCGAEEYPPSGAASSPGSAARLQELCAPDSSPPGVVPVLSAHSPSVGSEYFIRLEGAVPAAGHDPD
CAGCAPSPQAVTDQDNNSEESTVASLAMEPLLGHAPPTEGLWGPCDHHSHRRQGSPCPSRSPSPGTPMLP
AEDIDWGVATFCPPFFDDPLGASPSGSPGAQPSPSDEEPEEGKVGLAAQCGHWSSNMSANNNSASRDPES
WDPGYVSSFTDSYRDDCSSLEQTPRASPEVGHLLSQEDPRDFLPGLVAVSPGQEPSRPFNLLPLCPAKGL
APAACLITSPWTEGAVGGAENPIVEPKLAQEAEGSAEPQLPLPSVPSPSCEGASLPSEEASAPDILPASP
TPAAGSWVTVPEPAPTLESSGSSLGQEAPSSEDEDTTEATSGVFTDLSSDGPHTEKSGIVPALRSLQKQV
GTPDSLDSLDIPSSASDGGCEVLSPSAAGPPGGQPRAVDSGYDTENYESPEFVLKEAHESSEPEAFGEPA
SEGESPGPDPLLSVSLGGLSKKSPYRDSAYFSDLDAESEPTFGPEKHSGIQDSQKEQDLRSPPSPGHQSV
QAFPRSAVSSEVLSPPQQSEEPLPEVPRPEPLGAQGPVGVQPVPGPSHSKCFPLTSVPLISEGSGTEPQG
PSGQLSGRAQQGQMGNPSTPRSPLCLALPGHPGALEGRPEEDEDTEDSEESDEELRCYSVQEPSEDSEEE
PPAVPVVVAESQSARNLRSLLKMPSLLSEAFCDDLERKKKAVSFFDDVTVYLFDQESPTRETGEPFPSTK
ESLPTFLEGGPSSPSATGLPLRAGHSPDSSAPEPGSRFEWDGDFPLVPGKAALVTELDPADPVLAAPPTP
AAPFSRFTVSPTPASRFSITHISDSDAQSVGGPAAGAGGRYTEA

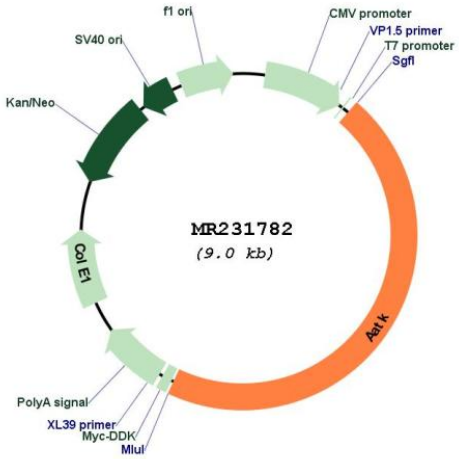
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001198785
ORF Size:	4122 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.
RefSeq:	NM_001198785.1, NP_001185714.1
RefSeq Size:	5423 bp
RefSeq ORF:	4125 bp
Locus ID:	11302
UniProt ID:	Q80YE4
Cytogenetics:	11 E2

MW:	145.9 kDa
Gene Summary:	May be involved in neuronal differentiation.[UniProtKB/Swiss-Prot Function]