

Product datasheet for MR217252

Aasdh (NM_173765) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aasdh (NM_173765) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aasdh
Synonyms:	A230062G08Rik; A830035E16; Acsf4; U26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217252 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTCTTCAGGAGTTGGTGCTTCGGACTGCCTCTGTCTATATGGATAGAACAGCTGTATGTTTTGACG
AAGGCAATAACCAGCCTCCAGTGTGCTATTCTACAAGGCTCTGTTGAGCGCGGCTTCAGAATTATCCCA
TTTTCTGATAGCACACTGTGACTTTGGAGGAATTCGGGAAATGGTCTCTATTGTCAACCTGGGATAAAC
TTACCCTCCTGGATTTAGGGATTCTTCAGGTCCCGCAGCGTATGCGCCATTGATCCAGACTCCCCAC
CGTCCTTATCAACTTACTTTATGAAAAATGTGACCTAAAGTATGTTCTCGTTGAAAAACAGCAGCTTAG
TAAATTCAAATCTTACATGAGACAGTTCTGAACTATGACACAGTTTCCGTGGAACACAAGGACCTGGCA
CTTTCAGACTGCATTGGGAAGATGGTCGGGTGAGCACAGTGCTTGGTGACAGAGCAGATCAGCACAAAGG
TGACGGATAGAGAAGACAGAGTGAGTGCTGAGAGCAGGACCCAGAGAAGGAGCAGATGGACATGCGGCA
TGACGGTTGCTTGGCTTATGTCTCCATACCTCAGGGACCACGGGGACACCGAAGATTGTGAGAGTGCC
CATGCATGCACTGCCTAATATCCAGCACTCCGGTCACTTTTTGACATCACTCAAGAAGACATTTTGT
TTCTGGCTTCTCCTCTGACCTTCGATCCATCTGTTGTGGAGATATTTGTTTCTCTGTCCAGTGGGGCCTG
CCTGCTTATCGTGCCAATTCTGTCAAAGTGCTACCATCAAATAGCTGACATTCTTTTTCCCGCCAC
AGAGTGACTGTTTTACAGGCAACGCCAACATTGCTGAGAAGATTGGATCTGAGTCATCAAGTCCACTG
TCCTGTACAGCGCATACGTCTCTGAGAGTCTGGCCCTCGGTGGGAAGCCTTCCCCTCGTGACCATCCT
CAAAAGCTGGCGAGGCAAGGCAACAGAACCCAGATATTTAACATCTATGGTATCACAGAGGTATCCAGC
TGGGCCACTTTTTACAGGATCCCAGAGGAGATTCTTAATTCTGCCGTGAAACATGAATCCCCTGTGCAGC
TGGGGTCGCCACTACTTGGAACGGTGATTGAAGTCAGAGACCAAATGGTTCTCCAGTTCTCGAAGGCAC
TGGCCAAGTATTTTTAGGTGGGAAGAACAGAGTGTTTTCTTGATGATGAAATGACAGTGCCCTTGGC
ACCATGAGAGCCACAGGAGACTTTGTGACTGTGAAAGATGGAGAGATATTTTTCTGGGAAGAAAGGACA
GCCAGATCAAGCGCCATGGCAAACGTCTTAACATTGCACCTGTGCAACAGGTTGCTGAAGAACTTCGCCA
GGTGGAGTCTGCGCGTCACTTGGTATAATCAGGAAAGATTGATTCTCTTCATCGTATCCAAAGTTGAC



[View online »](#)

TTAGTAAAGGACTGCATCTTTAAAGAATTGCAGAAACACCTTCCAGCACACGCCCTGCCTGATGACATGG
 TGCTGATCGATACCCTGCCATTTACATGCCATGGCAAAGTTGATGTTTCTGAGTTAAACAAGATATATTT
 AGACTACATAAGCTCACAGCCTAGGAATGAACTCCATGGAAAAGAGGAACTTTGGGGAAAATTACAGTAT
 TTATGGAAGTCTATTCTGTGTCTCCCTGAGGATCCAGAGGATACTCTGAAGGTTCCCGCAAACCTCCGTCT
 TTTTAGATAGTGGTGGGGATTCCCTCAAGTCCATGCGGCTCCTCAGTGAGATTGAGAGGCTACCCGGGAC
 AGCCATCCCTGGCCTTCTGGAAGTTATCCTCAGCAGTTCCTCTTAGACGTTTACAACCACATCGTTCAA
 GCCGTGTTACACCCGGAGGACAGGAAAGCCAACAGGAGTTACACCACAAAAGGAAATTCAGTGACTG
 ATCCAGAGGAAGCCAGCGGGAAGCCTGCAGCTGGAGTCTGCCTGGCCTTCGAACCATGCCGGCAGAC
 CAACTCCGTGATCGCTCTGAGCAGAGGGAGTCAAGTTTTGTCTCTTGGCGCTGGGAGGCTTTTAACTCAG
 TTAGGACTCTGCCTGCCAGTCTGTTCTCTGGATTAATCCACAGACTAACACTCAGATATTA AAAAGCC
 TAAGTCTCCAGCTCCTGATGAAAACCTGGAAAAGCCCCACTTTTTT CAGCAGGGGAGCCCCGTGGTTGG
 GGCTATGGCGATGGCATTGCGGGAGAGGTGGCGGT CAGACACAGGCAAATGCGTTGATGCCTCCCCTCTG
 CTGGTGAGAGCGGCTGTACAGGATAAGCCCTCCACAACCGTGTATATTGGCTCGCACTCGCACACAGTGA
 AGGCTGTCGACCTGTCTCTGGGAGACGAGGTGGGAACAGCTTCTGGGAGATCGAATTGAATCCTCAGC
 GTGTGTCTAAATGTGAAAACCTTATTGTAGTGGCTGTATAATGGATTAGTCTATGCCTAAAAAGT
 AATAGTGGAGAAAAATATTGGACATTTACTACTGAAGATGCTGTCAAAGCTCACCAGCCGTGGATCCAA
 CCACAGGACTCATTTATGTCGGATCTATGACCAGCAGCATATGCTTTAGACATTTATGAAAAGAAATG
 TGTCTGGAAGCTAAACTGTGAAGGCGCTCTTTTTCTCTCCGTGTGAGCCTGAGTCCACACCATCTG
 TACTGTGTACGCTAGGGGACTCTTACTGGCCCTAAATCCTGCTTCTGGGAGCACGGTGTGGAAGCGCT
 CCTGTGAAAAGCCACTCTTCTTCCCCACGGTGTACCAGCAATACATCTGCATCGGCTGCGTGGACGG
 CAGTTTGTCTGTTTACACACTCAGGGGAGCAGGTCTGGCGCTTGTGCTGGAGGGCCAACTTCTCTCA
 TCCCATGCGTCTCGGCAGCAGAACAAGAAATATTTTTGGTTCCCATGACTGCTTTATCTACTGCTGTA
 GCAAGGAAGTCACTCCGGTGGAAATTTGAGACGACAGCCAGGGTGTATGCAACGCCCTTTGCTTTT CAG
 TAACCACCCCGTAGCGATGATGCAGTCTGGCAGCGGCATCCACTGACGGGAAACTGTGGTCTCGAG
 TCTCGGAGCGGAGAGCTGCGAAGTGTGTATGAACTCCCCGGAGAAGTCTTCTCTCTCTGTGGTCTGGG
 AATCAATGCTTGTATTGGGTGCAGAAACAATTATTTACTGTCTGGATTTATTGTGTGGTGATAAAAA
 TAACCAGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217252 protein sequence
 Red=Cloning site Green=Tags(s)

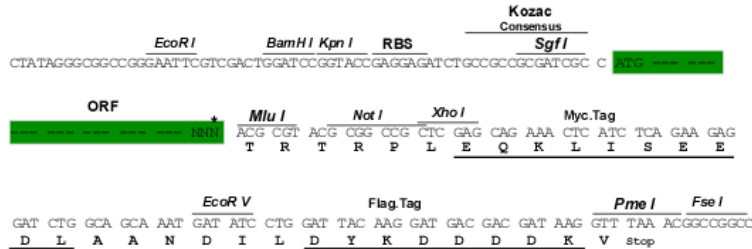
MTLQELVLRITASVYMDRTAVCFDEGNNQPPVCYSYKALLSAASELSHFLIAHCDFFGGIREIGLYCQPGIN
 LPSWILGILQVPAAYAPIDPDSPPSLSTYFMKKCDLKYVLVEKQQLSKFKSSHETVLNYDTSVEHKDLA
 LFRLHWEDGRVSTVLGDRADQHKVTDREDRVSAESRTPKEHMDMRHDGCLAYVLHTSGTTGTPKIVRVP
 HACILPNIQHFRSLFDITQEDILFLASPLTFDPSVVEIFVSLSSGACLLIVPTSVKVLPSKLADILFSRH
 RVTVLQATPTLLRRFGSELIKSTVLSAHTSLRVLALGGEAFPSLTILKSWRGKGNRTQIFNIYGITVEVSS
 WATFYRIPEEILNSAVKHESPVQLGSPLLGTVIEVRDQNGSPVLEGTGQVFLGGKNRVCFLLDDEMTVPLG
 TMRATGDFVTVKDGEIFFLGRKDSQIKRHGKRLNIALVQQAEEELRQVESCAVTWYNQERLILFIVSKVD
 LKDCIFKELQKHLPAHALPDDMVLIDTLPFTCHGKVDVSELNKIYLDYISSQPRNELHGKEELWGKLYQ
 LWKSILCLPEDPEDTLKVPANSVFLDSGGDSLKSMRLLSEIERLTGTAIPGLLEVLSSSLLDVYNHIVQ
 AVFTPEDRKANRSYTTKRKFSADPEEASGKPARLESAPNSNHAGETNSVIALSRGSQVLSLGGARLLTQ
 LGLCLPVCSDLIPQNTQILKSLSPAPDENLEKPLPFQOGSPVVGAMAMALRERWRSDTGKCVASPL
 LVRAAVQDKPSTTVYIGSHSHTVKAVDLSSGETRWEQLLDRIESSACVSKGNFIVVGCYNGLVVYLKS
 NSGEKYWFTTTEDAVKSSPAVDPTTGLIYVGSHDQHAYALDIYEKKCVWKLNCEGALFSSPCVSLSPHHL
 YCATLGGLLLALNPASGSTVWKRSCGKPLFSSPRCYQYICIGCVDGSLLCFTHSGEQVWRF AAGGPIFS
 SPCVSAAEQEIFFGSHDCFYCCSKEGHLRWKFETTARVYATPFAFSNHPRSDALLAAASTDGKLWVLE
 SRSSELRSVYELPGEVFSPPVWESMLVIGCRNNYIYCLDLLCGDKNNQV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_173765

ORF Size: 3303 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_173765.4](#)

RefSeq Size: 3694 bp

RefSeq ORF: 3303 bp

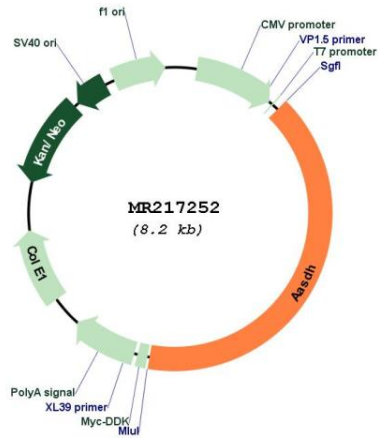
Locus ID: 231326

UniProt ID: [Q80WC9](#)

Cytogenetics: 5 C3.3
MW: 121.6 kDa

Gene Summary: The gene product is a cytosolic enzyme involved in the production of alpha-aminoadipic acid from alpha-aminoadipic semialdehyde. It is postulated that this enzyme plays a role in lysine metabolism. There is currently debate regarding this enzyme's putative requirement of pyrroloquinoline quinone as an essential cofactor. A related pseudogene has been identified on chromosome 2. [provided by RefSeq, Jan 2010]

Product images:



Circular map for MR217252