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Product datasheet for MC205647

Aass (NM_013930) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aass (NM_013930) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aass
Synonyms:	LKR; LKR/SDH; Lo; LOR; LOR/SDH; Lorsdh; SDH
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC005420
CGGACGCGTGGGTTTTTTTTGCAGGGAAATCAGTCTGTAGGGTCCAGATTCAAGAGCTCTGGGTGGCTGG
GGACTGATCCATAACCTACAAGCTACCACATTTGAAGATGCTGAGAGCGCAGAGGCCGAGACTGGCCAGG
CTTAGAGCCTGCCTCTCCAGAGGCCTCCACCACAAGCCAGTGATGGCACTCCGGAGGGAGGACGTGAACG
CCTGGGAGCGCAGGGCGCCTCTGGCTCCCAAGCACATCAAGGGCATCACCAAACTGGGCTACAAGGTCTT
GATACAGCCTTCCAACAGACGGGCCATCCATGACAAGGAGTATGTCAGGGCTGGTGGCATTCTTCAGGAA
GACATCACAGAAGCCTGTCTGATTTTGGGAGTAAAAAGGCCTCCAGAGGAAAAACTGATGTCCAAGAAGA
CATACGCCTTCTTTTCCCACACAATAAAAGCTCAGGAAGCCAATATGAACCTGTTGGATGAGGTTCTGAA
ACAGGAAATCCGGCTCATTGATTATGAGAAAATGGTGGATCACAGAGGGTCTCGGATAGTGGCTTTCGGA
CAGTGGGCGGGTGTGGCAGGAATGATTAATATTTTACATGGAATGGGCTTAAGGCTCCTTGCTTTGGGAC
ATCATACGCCTTTTATGCATCTTGGCATGGCTCACAACTACAGGAACAGCAGTCAGGCCGTGCAGGCTGT
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ACAGGGACTGGCAATGTATCCAAGGGAGCCCAGGAAGTCTTTAATGAGCTACCTTGTGAGTATGTGGAGC
CCCACGAATTAAGAGAAGTTTCAAAAACTGGAGACCTCAGGAAAGTGTATGGGACGGTGTTAAGTCGCCA
TCATCATCTTGTCAGGAAAACAGATGGTGTGTACGATCCCGTAGAATACGAGAAATATCCTGAGCGCTAC
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ACACCCCTCGCCTGCTCACACGTCAGGATGCTCAGAGTCTCCTGGTCCCAGTGAAGTCCTCAGTTGTTCC
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TTATTCACGACAGTGTTGAAGGCTCCGGGATCCTGATGTGTTCCATTGACAATTTGCCAGCACAGCTTCC
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AATATGGTCACTGCAAGCTACATTACACCAGCCATGAAAGAACTGGAAAAGAGTGTGGATGATGCTGGCA
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TGCCAAAGAGCTGGGAGCCACGGTTGAGTCTTATGTTTCCTACTGTGGTGGCCTTCCGGCCCCTGAACAT
TCAGATAATCCCTTGCGATACAAATTCAGCTGGAGTCCAGTGGGAGTCTTGATGAACATAATGCAGCCTG
CTAGCTATCTGCTCAATGGGAAGGTTGTGAATGTGACAGGGGGAGTCTCTTTTCTCAACTCTGTCACACC
CATGGATTACTTCCCAGGTCTAAACTTGGAAGGGTATCCTAACAGAGATAGCATAAAATATGCTGAGATT
TATGGAATTTCATCTGCCCATACATTATTAAGGGGAACACTGAGATATAAGGGATATTCCAAAGCCTTGA
ATGGATTTGTGAAGTTGGGACTCATCAACAGAGAAGCATACCCTGCCCTCCGACCTGAGGCCAACCCTCT
CACCTGGAAACAACTCCTATGTGACCTAGTTGGAATTTCCCGCTCCTCCCCATGCGAGAAGCTTAAGGAA
GTTGTCTTCACAAAGCTGGGAGGGGACAATACCCAGCTGGAAGCTGCAGAATGGTTGGGCTTACTGGGGG
ATGAACAAGTTCCTCAGGCCGAGTCCATTGTGGACGCGTTCTCCAAGCACTTGGTCTCAAAACTCTCCTA
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GGTTGCCGACAGCCATGGCAGCCAAAATGTTGCTTGATGGTGAAATTGAAGCCAAAGGCCTAATGGGGCC
ATTTACAAAGGAGATCTATGGGCCAATATTGGAGCGGATTAAAGCAGAAGGCATTGTATTTAACACACAG
AGTACAATCAAGCTATAAATGGGAATGTATTTTCCGAAGCATCACACCTGTTAACCTTGGGTATGACAAA
CATGCTTGCTGATGTGCTAAAGCATGAAGCATGATGTCTTTTGAGTAAGTTCATGGCAATGGTATTTTTG
AAATGCAAATCTCTACTTTAGTAAAGCTTTTGGAGTAGAAGAATCCAGACATCACAGAACCCTTTAATAA
GTCTCCTGTGTACTTTCTGTGTGTATGTAAAGGTGATCATAGTTTGTTAATTTATTGTGCTTCCTTTTCC
CCGAGAACATATTATCAGCAAGTGCAGTTGTACTATTTCCTTTCCCAGAAAAAAAAAAACAACTTCACAT
AGTTATATTTTTGTATTTTTCAAATTGAGTCTGCTACATACCTTTTAGACTGACATATCTAAAAACAATT
GTAAACGTAATTTCTCATGCCTTTTGTAAAGTTATGATTTATTTAGTAAATTTTTTGTTTTGAAAAAAAA AAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN:	NM_013930
Insert Size:	2781 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC005420, AAH05420
RefSeq Size:	3369 bp
RefSeq ORF:	2781 bp
Locus ID:	30956
UniProt ID:	Q99K67
Cytogenetics:	6 10.27 cM
Gene Summary:	This gene encodes a bifunctional mitochondrial protein that catalyzes the first two steps in the lysine degradation pathway. The N-terminus contains lysine-ketoglutarate reductase activity and converts lysine to saccharopine, whereas the C-terminus contains saccharopine dehydrogenase activity and converts saccharopine to alpha-aminoadipate semialdehyde. Mutations in a human gene encoding a highly similar protein are associated with familial hyperlysinemia. [provided by RefSeq, Jul 2008]