

Product datasheet for **RN206992**

Aass (NM_001100963) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aass (NM_001100963) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Aass
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF:

>RN206992 representing NM_001100963

Red=Cloning site Blue=ORF Orange=Stop codon

 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAGAGCACAGAGGCTGAGACTGGCCAGGCTGAGAGCCTGCGTCTCCAGAGCCTCCACCACAAGC
 CGGTCATGGCGCTCCGAAGGGAGGACGTGAACGCCTGGGAGCGCAGGGCGCCTCTGGCTCCCAAGCACAT
 CAAGGGCATCACCAAAGTGGGATACAAGTCTTGATACAGCCTTCCAATAGACGAGCCATTCACGACAAG
 GAGTATGTCAGGGCCGGTGGCATTCTTCAGGAGGACATTACAGAAGCCTGCCTGATTTTGGGGTAAAAA
 GGCTCCAGAGGAAAACTGATGTCCAAGAAGACTTATGCCTTCTTCCCACACAATAAAAGCTCAGGA
 AGCTAATATGAGCTTGTGGATGAGTCTGAAACAGGAAATCCGGCTTATTGATTATGAGAAAATGGTG
 GATCACAGAGGGTCTCGGATAGTGGCTTTGGACATTGGGCAGGTGTGCCAGGAATGATTAATATTTTAC
 ATGGAATGGGTTAAGGCTCCTTGCTTTGGGACATCATACGCCTTCATGCATCTCGGCATGGCTCACAA
 CTACAGGAACAGCAGTCAAGCTGTACAGGCTGTCCGCGATGCTGGCTATGAAATATCTCTGGGTTAATG
 CCAAAGTCAATAGGGCCCTTAACGTTTGTATTCACAGGGACTGGCAACGTATCCAAGGGAGCCCAAGAAG
 TCTTTAATGAGCTACCTGTGAGTATGTGGAGCCCATGAATTAAGAAGTTTCAAAAAGTGGAGACCT
 CAGGAAAGTGTATGGGACGGTGTAAAGTCGCCATCATCATCTTGTGAGAAAACAGATGGTGTGTACGAT
 CCTGTAGAATACGAGAAATATCCTGAGCGCTACATAAGTCGTTTTAATGCAGATATTGCACCCTACACAA
 CTTGTTTAAATCAATGGAATCTACTGGGAGCAAAACACCCCTCGGCTGCTCACACGTCAGGATGCCAGAG
 TCTCCTGGTCCCAGTGAAGTCTCAGTTGTTCTGTTGAAGGATGCTCTGAATTACCACACAAACTTGTG
 GCAATATGTGACATTTGAGCAGACACAGGAGGCTCTATAGATTTTATGACTGAGTGCATACCATAGAAC
 GGCCCTTTTGCATGTATGAGCAGACACAGGAGGCTATTAATTCAGCAGTGTGAAGGCTCCGGGATCTGAT
 GTGCTCCATTGACAATTTGCCAGCGCAGCTTCCAATTGAGGCCACAGAATACTTTGGAGACATGCTTTAC
 CCTTATGTGCAAGAGATGCTGTTATCAGATGCGTCACAGCCTCTGAAAGCCAGAACTTCTCTCCGGTCG
 TGCGAGATGCAGTGATTACATCCAATGGTCTATTGACGGACAAATACAAATATATACAGAAAAGTCCGGGA
 AAGCAGAGAACGAATCCAATTCCTTTCAATGAGTACCAAGAAGAAGGTTTTGGTCTTGGGTCTGGCTAT
 GTATCTGGGCCTGTTTTGGAGTACCTGTCAAGAGGCAACAATATAGAAATAACACTAGGCTCTGACATGA
 CGAACCAATGCAGCAGCTGAGCAAGAAATACGACATTAACACTGTCAATGTGACCGTCGGCAAGCAGGA
 AGACAAGTGCAGTCCCTGGTCAATCCCAGGATCTTGTATCAGCTTGTGCTTATGTGTTGCATCCT
 GTTGTGGCCAAGGCTGCATTGATAGCAAGGTTAATATGGTCACTGCAAGCTACATCACACCAGCTATGA
 AAGAACTGAAAAAAGTGTGGATGACGCTGGCATTACAGTCAATTGGAGAATTGGGATTAGATCCTGGTCT
 TGATCACATGTTGGCAATGGAAACAATTGATAAAGCCAAAGATCTGGGAGCCACGATTGAGTCGATGTT
 TCCTACTGCGGTGGTCTTCCAGCCCCAGAGCATTACAGATAATCCCTTGGCATATAAGTTCAGCTGGAGTC
 CAGTGGGAGTCTTTTTCTCAATCTGTACACCCATGGATTACTCCCAGGCCTAACTTGGGAGGGTAT
 CCTAACAGAGATAGCACAAAATATGCTGAGATTTATGGAATTTTCACTGCCCATACATTGTTGAGGGGAA
 CACTGAGATAAAGGGATATCCAAAGCTTTGAACGGATTTGTGAAGTTGGGACTCATCAACAGAGAAAC
 ATATCCTGCCCTCCGACCTGAGGCCAACCTCTCACGTGGAACAGCTCCTGTGTGACCTAGTTGGGATT
 TCCCGTCTCCTCATGTGAGAAGCTTAAGGAAGTTGTCTTACAAAGTTGGGAGGGGACAGTACCCAGC
 TAGAGGCTGCTGAATGGTTGGGCTTACTGGGGATGAGCAGGTTCTCAGGCAGAGTCCATTGTGGATGC
 ATTCTCCAAGCACTTGGTCTCAAAGCTCTCCTATGGCCCCGAAGAAAAGGATATGATTGTGATGCGGGAC
 AGCTTTGGCATTAGACATCCATCTGGACATTTAGAAAACAAGACCATTGATCTTGTGGTTTATGGAGACT
 TCAATGGCTTTTCGGCAATGGCTAAGACTGTGGGGTTGCCAACAGCCATGGCAGCCAAAATGTTACTCGA
 TGGTGAATTTGAAACAAAGGCCTAATGGGACATTTTCAAAGGAGATCTACGGGCCAATATTGGAGCGG
 ATTAAGCAGAAGGCATTGTGTTAATACACAGAGCACAATCAAGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:	NM_001100963
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:	<ol style="list-style-type: none">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:	<u>NM_001100963.1</u> , <u>NP_001094433.1</u>
RefSeq Size:	3300 bp
RefSeq ORF:	2781 bp
Locus ID:	296925
UniProt ID:	<u>A2VCW9</u>
Cytogenetics:	4q22
Gene Summary:	Bifunctional enzyme that catalyzes the first two steps in lysine degradation. The N-terminal and the C-terminal contain lysine-oxoglutarate reductase and saccharopine dehydrogenase activity, respectively (By similarity).[UniProtKB/Swiss-Prot Function]