

Product datasheet for **RR206998**

Adhfe1 (NM_001025423) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adhfe1 (NM_001025423) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adhfe1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR206998 representing NM_001025423
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGCAGCTGCACGCGCTCGAGTGACACATTTGCTGAGGCACCTGCAAAGCAGCATGCCAGTGTCC
 CAACTATTCTCATACCTACTCCCAAGTCCTGGACTCTCACCTTCAGGAAAAACAACGGATTATGCATT
 TGAGATGGCGGTCTCGAACATTAGATATGGAGCAGGGTTACAAAGGAAGTGGGCATGGATCTACAGAAT
 ATGGGAGCTAAGAATGTCTGCCTGATGACAGACAAGAACCCTCCAGCTCCCTCTGTCCAAATAGTTA
 TGGATTCCCTATCGAAGAATGGCATTAGTTTTAGGTTTATGACAACGTGAGGGTGGAGCCTACAGACGG
 AAGCTTCATGGATGCGATTGAATTTGCTAAAAAGGGAGCCTTTGATGCCTATGTTGCTGTGGTGGGGC
 TCCACCATGGACACCTGTAAGCCGCTAATCTGTACGCATGCAGCCCTCACTCTGAGTTCCTTGATTATG
 TCAATGCCCCATTGGGAAGGGGAAGCCAGTAAGTGTGCCTCTTAAACCTCTGATCGCAGTTCACACTAC
 CTCGGGGACTGGCAGTGAGACTACGGGGTGCCTATTTTACTATGAACATTTGAAAGTAAAACTGGA
 ATTGCTTCACGGGCCATCAAACCCACCCTGGGGCTGGTTGATCCCCTGCATACTCCACATGCCTTGCC
 AGGTGGTTGCCAACAGTGCTTCGATGTCTTTGCCATGCCTGGAGTCATACACCGCCATTCCCTACAG
 CATGAGGAGCCCCTGCCCTTCCAATCCCATCCAACGACCAGCATACCAGGGTAGCAACCCCAATCAGTGAC
 ATCTGGGCAGTCCATGCACTGCGCATCGTTGCCAAATATCTGAAGAGGGCTGTCAGAAACCTGACGATC
 TGGGAAGCAAGGTCTAGCATGCACTTGGCAAGCGCCTTCGCTGGCATTGGCTTCGGAACCGCCGTGTTCA
 TCTGTGCCATGGCATGTCTTACCAATTCAGGTTTAGTGAAGACATACAAAGCCAAGGAATACAATGTG
 GATCACCTCTGGTGCCTATGGCCTCTCTGTGGTGTCACTCTCCCGCAGTGTTCACCTTCACAGCCC
 AGATGTTCCAGAGCGGCACCTGGAGACGGCAGAAATATTAGGAGCCAACATTCGACCCGCAAGATCCA
 AGATGCCGGCCTGTGTTGGCAGATGCTCTCCGAAAATTCCTATTTGACCTAAATGTTGATGACGGTCTC
 GCTGCCCTTGGTTATTCTAAAGATGACATTCCTTCACTGGTAAAAGGAACACTGCCCCAGAAAAGGGTCA
 CGAAGCTTGCGCCGCTGCCAGTCAGAGGAAGATTTGTCTGCTTGTTCGAAGCATCAATGAACTGTA
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206998 representing NM_001025423
 Red=Cloning site Green=Tags(s)

MAAAARARVTHLLRHLQSTACQCPTHSHYSQVPGLSPSGKTTDYAFEMAVSNIRYAGVTKEVGM DLQN
 MGAKNVCLMTDKNLSQLPPVQIVMDSL SKNGISFQVYDNVRVEPTDGSFMDAIEFAKKGAFDAYVAVGGG
 STMDTCKAANLYACSPHSEFLDYVNAPIGKGPVTVPLKPLIAVPTTSGTGSETTGVAIFDYEHLKVKTG
 IASRAIKPTLGLVDPLHLHMPQVANSQVDFVLDCHALESYTAIPYSMRSPCPSNPIQRPAYQGSNPI SD
 IWAVHALRIVAKYLRKAVRNPDDLEARS MHLASAFAGIGFGNAGVHLCHGMSYPI SGLVKTYKAYEYNV
 DHPLVPHGLSVVLTSPAVFTFTAQMFPERHLEAEILGANIRTAKI QDAGPVLADALRKFLFDLNVDDGL
 AALGYSKDDIPSLVKGTLPQERVTKLAPRAQSEEDLSALFEASMKLY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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_001025423.1, NP_001020594.1</u>
RefSeq Size:	1884 bp
RefSeq ORF:	1404 bp
Locus ID:	362474
UniProt ID:	<u>Q4QQW3</u>
Cytogenetics:	5q11
MW:	50.2 kDa
Gene Summary:	Catalyzes the cofactor-independent reversible oxidation of gamma-hydroxybutyrate (GHB) to succinic semialdehyde (SSA) coupled to reduction of 2-ketoglutarate (2-KG) to D-2-hydroxyglutarate (D-2-HG). L-3-hydroxybutyrate (L-3-OHB) is also a substrate for HOT when using 2-KG as hydrogen acceptor, resulting in the formation of D-2-HG (By similarity). [UniProtKB/Swiss-Prot Function]