

Product datasheet for MC217951

Akr7a5 (BC031857) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Akr7a5
Synonyms:	0610025K21Rik; Afar; Afarl; Akr7a2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC031857 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCCGGCTCCGCCACCCCGCGCCGCTCTGGCGCCCTCTCCGGCCCGCTACGGTGCTGGGCACCA
TGGAGATGGGGCGTCGCATGGATGCGAGTGCTAGCGCCGCTTCGGTCCGCGCCTTCTGGAGCGCGGCCA
CAGCGAGCTGGACACGGCCTTCATGTACTGCGACGGCCAGTCCGAGAACATCCTGGGCGGCCTGGGGCTC
GGGCTGGGCAGCGCGACTGCACAGTGAATCGCCACCAAGGCCAACCCCTGGGAAGGGAAGTCACTGA
AGCCTGACAGCGTCCGGTCCCAGTTAGAGACGTCTCTGAAGCGGCTGCAGTGTCCCCGGGTGGATCTCTT
CTACTTACACGCTCCCGACCAAGCACTCTGTGGAGGAGACATTCGTGCCTGCCACCAGCTGCATCAG
GAGGGCAAGTTTGTGGAGCTTGGTCTGTCTAACTACGCCTCCTGGGAAGTGGCTGAGATCTGTACCTCT
GCAAGAGCAACGGCTGGATCCTGCCAAGTGTGTACCAGGGCATGTACAACGCCACCACCCGGCAGGTGGA
GGCCGAGCTCCTCCCTGCCTCAGACATTCGGACTGAGGTTCTACGCCTACAACCCCTTTGGCTGGGGGC
CTGCTGACTGGCAAGTATAAATACGAAGACAAGGATGGGAACAACCCGTGGGCGGCTTCTTTGGGAATA
ACTGGGCTGAGACCTACAGGAACCGCTTCTGGAAGGAACACCACTTTGAGGCCATCGCCCTGGTAGAAAA
GGCCCTGCAGACCACTATGGACCAACGCCCCCGCATGACCTCGGCCGCCCTGCGCTGGATGTACCAC
CACTCGCAGCTCCAGGGCACCCGAGGGGATGCAGTCATCTTGGGCATGTCCAGTCTGGAGCAGCTGGAGC
AGAAGTGGCCGCACTGAGGAAGGGCCCTGGAGCCGGCTGCTGGAAGCCTTTGACCAAGGCTGGAA
CATGGTCGCCACGAGTGTCCTCACTTCAAGATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



ACCN:	BC031857
Insert Size:	1017 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC031857 , AAH31857
RefSeq Size:	1295 bp
RefSeq ORF:	1016 bp
Locus ID:	110198
Cytogenetics:	4 70.64 cM
Gene Summary:	Catalyzes the NADPH-dependent reduction of succinic semialdehyde to gamma-hydroxybutyrate. May have an important role in producing the neuromodulator gamma-hydroxybutyrate (GHB). Has broad substrate specificity. Can reduce the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the non-binding AFB1 dialcohol. May be involved in protection of liver against the toxic and carcinogenic effects of AFB1, a potent hepatocarcinogen (By similarity).[UniProtKB/Swiss-Prot Function]