

Product datasheet for **MC212223**

Akr7a5 (NM_025337) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Akr7a5 (NM_025337) Mouse Untagged Clone
Tag: Tag Free
Symbol: Akr7a5
Synonyms: 0610025K21Rik; Afar; Afar1; Akr7a2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC212223 representing NM_025337
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGCTGCGTGCAGCGTCCAGAGCCGTGGGCCGCGCTGCTGTTTCGCTCCGCGCAGCGCTCCGGGACTTCGG
TCGGGCGTCTCTCGCCATGTCCCGCCCTCCGCCACCCCGCGCCCTCTGGCGCCCTCTCCGGCCCGC
TACGGTGTGGGACCATGGAGATGGGGCGTCGCATGGATGCGAGTGCTAGCGCCGCTTCGGTCCGCGCC
TTCTTGAGCGCGGCCACAGCGAGCTGGACACGGCCTTCATGTACTGCGACGGCCAGTCCGAGAACATCC
TGGGCGGCTGGGGCTCGGGCTGGGCAGCGGCGACTGCACAGTAAAAATCGCCACCAAGGCCAACCCCTG
GGAAGGGAAGTCACTGAAGCCTGACAGCATCCGGTCCCAGTTAGAGACGTCTCTGAAGCGGCTGCAGTGT
CCCCGGGTGGATCTTTCTACTTACACGCTCCCGACCACGACTCCTGTGGAGGAGACACTTCGTGCCT
GCCACCAGCTGCATCAGGAGGGCAAGTTTGTGGAGCTTGGTCTGTCTAACTATGCCTCCTGGGAAGTGGC
TGAGATCTGTACCCTCTGCAAGAGCAACGGCTGGATCCTGCCAAGTGTACCAGGGCATGTACAACGCC
ACCACCCGGCAGGTGGAGGCCGAGCTCCTCCCTGCCTCAGACACTTCGGACTGAGGTTCTACGCCCTACA
ACCTTTTGGCTGGGGCCTGCTGACTGGCAAGTATAAATACGAAGACAAGGATGGGAAACAACCCCTGGG
CCGCTTCTTTGGGAATAACTGGGCTGAGACCTACAGGAACCGCTTCTGGAAGGAACCACTTTGAGGCC
ATCGCCCTGGTAGAAAAGGCCCTGCAGACCACCTATGGCACCAACGCCCCCGCATGACCTCGGCCGCC
TGCGCTGGATGTACCACCACTCGCAGCTCCAGGGCACCCGAGGGGACGCAGTCACTTTGGGCATGTCCAG
TCTGGAGCAGCTGGAGCAGAAGTGGCCGCCACTGAGGAAGGGCCCTGGAGCCGGCTGTCGTGGAAGCC
TTTGACCAAGCCTGGAACATGGTCGCCACGAGTGTCCCAACTACTTCAGATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_025337



Insert Size:	1104 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_025337.3</u> , <u>NP_079613.3</u>
RefSeq Size:	1648 bp
RefSeq ORF:	1104 bp
Locus ID:	110198
UniProt ID:	<u>Q8CG76</u>
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]