

## Product datasheet for **MC202122**

### **Adhfe1 (NM\_175236) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Adhfe1 (NM_175236) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adhfe1
Synonyms:	6330565B14Rik; Adh8; AI043035; HOT
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC026584 sequence for NM\_175236  
 CTGCCATGGCTGCAGCTGCACGCGCTCGAGTCACACACTTGCTGAGGCACCTACAAAGCACAGCATGCCA  
 GTGCCAACTCATTCTCATACTTACTCCCAAGCCCCTGGACCTTCGGGAAAAACAGCAGATTACGCCTTT  
 GAGATGGCTGTCTCAAATATTAGATATGGAGCAGGGGTTACGAAGGAAGTAGGCATGGATCTACAGAATA  
 TGGGAGCTAAGAATGTTTGTCTGATGACAGACAAGAACCTCTCCAGCTCCCTCCTGTACAAATAGTTAT  
 GGATCCCTATCGAAGAATGGCATCAGTTTTCAGGTTTATGATGATGTAAGGGTGGAACTACAGATGGA  
 AGCTTCATGGATGCAATTGAATTTGCCAAAAAGGGAGCGTTTGATGCCTATGTTGCTGTGGGTGGGGGCT  
 CCACCATGGACACCTGTAAGCCGCCAATCTGTATGCATCCAGCCCTCACTCTGAGTTCCTTGATTATGT  
 CAATGCCCCCATGGGAAGGGGAAGCCAGTAAGTGCCTCTTAAACCTCTGATTGCAGTTCCTCAACTACC  
 TCAGGGACTGGCAGTGAGACTACCGGGTTGCCATTTTTGACTATGAGCATTGAAAAGTAAAACTGGCA  
 TTGCTTACAGAGCCATCAAACCCACCCTGGGACTGGTTGATCCCCTGCACACTCTCCACATGCCTTGCCA  
 GGTGGTTGCCAACAGTGGCTTCGATGTCCTTTGCCATGCTCTGGAGTCATACACCGCCATTCCTACAGC  
 ATGCGGAGCCCCTGCCCTCCAACCCCATCCAACGACCAGCATACCAGGGTAGCAACCCAATCAGCGACA  
 TCTGGGCAGTCCATGCACTGCAGATTGTTGCCAAATATCTGAAGAGGGCTGCAGAAACCCAGATGATCT  
 GGAAGCAAGGTCTAAAATGCACTTGGCAAGTGCTTTTGTGGCATTGGCTTCGGAATGCTGGTGTTCAT  
 CTGTGCCATGGCATGTCTTACCCAAATTCAGGTTTGTGAAAGACATATAAAGCCAAGGAATAAATGTGG  
 ATCACCTCTTGTGCCCATGGCCTTTCTGTGGTGCTCACCTCTCCTGCAGTGTTCACCTTCACAGCCCA  
 GATGTTTTCCAGAGCGGCACCTGGAGACGGCAGGAATATTAGGAGCCAACATCCGCACTGCCAGGATCCAA  
 GATGCTGGGCTTGTGTTGGCAGATGCCCTCCGAAAATTCCTATTTGACCTAAATGTTGATGACGGTCTGG  
 CTGCTCTTGGTTATTCGAAGGATGACATTCCTTATTGGTGAAGGAACACTGCCCCAGGAAAGGGTCCAC  
 GAAGCTCGCACCTCGTCCCAGTCAGAAGAGGATTTGTCTGCTTTGTTGAAGCATCCATGAACTGTAC  
 TAATTAACATATTAGTAAAAGAATCCCCATTGGCCTTTGCGACAGAAGTTACAAATAGCAGAAGTTGGC  
 CAGAGCTGATGTTGCCGCTTATCTCCACACTTAACTCACCTATTGCTGGTTTGAATGTGATGATTTT  
 ATCCTTTGGAAGATTCTTGGTGCTCATTACATGGAACCCATGGGCCATACCCCAGGGGTAGTATTCTCT  
 GTACCAAACCCCATCAAATACATAAAAATGCCTATCTCCAAACACTGCATGTCTAGACATTTACCCTGAA  
 GAAATACTAGCATTAGTGTGCAAAAAAAAAAACAATGCATACTAGTTGCACACAAGGATGAGTCTGACAT  
 ATTTTTAGATAGTAAAAATTAACAATCTAAATATTCAATACTGAATGAATCCTAATATAGTAAATGAT  
 AGAATACTGTGGTATTATTAATAAAAATGAAGTAAACTCTTGAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_175236

**Insert Size:** 1398 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:** [BC026584](#), [AAH26584](#)

RefSeq Size:	1878 bp
RefSeq ORF:	1398 bp
Locus ID:	76187
UniProt ID:	<a href="#">Q8R0N6</a>
Cytogenetics:	1 A2
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>