

## Product datasheet for MR203919

### Idh3a (BC034273) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Idh3a (BC034273) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Idh3a
Synonyms:	1110003P10Rik; 1500012E04Rik; AA407078; AI316514
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203919 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGATCCCTCCAGAAGCCAAGGAGTCCATGGATAAGAACAAGATGGGCTTGAAAGGCCCACTAAAGACCC  
CAATAGCCGCTGGCCATCCATCTATGAATCTGTTGCTTCGTAAGACATTTGACCTTTATGCCAATGTCCG  
GCCATGTGTCTCAATTGAAGTTATAAAACCCCTTACACGGATGTAATATCGTCACCATCCGAGAGAAC  
ACGGAAGGAGAATACAGTGAATTGAGCATGTGATCGTTGATGGGGTTGTCAGAGCATCAAGCTCATCA  
CCGAAGAAGCAAGCAAGCGCATTGCAGAGTTTGCCTTCGAGTACGCTCGGAACAACCACCGAGCAACGT  
CACAGCTGTGCACAAAGCTAACATCATGAGGATGTGAGTGGGCTCTTTCTGCAAAAATGCAGGGAAGTT  
GCGGAGAACTGTAAGACATTAATTTAACGAGATGTACCTTGATACTGTATGTTTAAATATGGTACAAG  
ACCCATCCAGTTTGATGTTCTTGTGCATGCCAAATTTATACGGAGACATCCTTAGTGATCTGTGTGCAGG  
ACTGATTGGAGGTCTTGGGGTACTCCAAGTGGCAATATTGGAGCCAACGGTGTGGCCATCTTTGAATCG  
GTTTCATGGAACAGCCCGGACATTGCAGGCAAGGACATGGCCAACCCACGGCCCTCCTGCTTAGTGCTG  
TGATGATGCTTCGCCACATGGGACTTTTTGACCATGCAGCAAAAATCGAGGCTGCATGTTTTGCTACAAT  
TAAGGATGGAAAGAGCTTAACAAAAGATCTGGGAGGCAACGCGAAGTGCTCTGACTTCACAGAAGAAATC  
TGTCGTAGAGTCAAAGACTTAGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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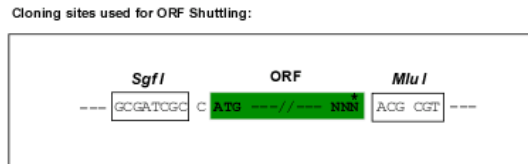
**Protein Sequence:** >MR203919 protein sequence  
Red=Cloning site Green=Tags(s)

MIPPEAKESMDKNKMLKGPLKTPIAAGHPSMNLRLKTFDLIANVRPCVSIIEGYKTPYTDVNIIVTIREN  
 TEGEYSGIEHVIDGVVQSIKLI TEEASKRIAEFAFEYARNNHRSNVTAVHKANIMRMSDGLFLQKCREV  
 AENCKDIKFNEMYLDTVCLNMVQDPSQFDVLPVLPNLYGDILSDL CAGLIGGLGVTSPGNIGANGVAIFES  
 VHGTAPDIAGKDMANPTALLLSAVMMLRHMGLFDHAAKIEAACFATIKDGKSLTKDLGGNAKCSDFTEEI  
 CRRVKDLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** BC034273

**ORF Size:** 864 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:** [BC034273](#), [AAH34273](#)

**RefSeq Size:** 2416 bp

**RefSeq ORF:** 866 bp

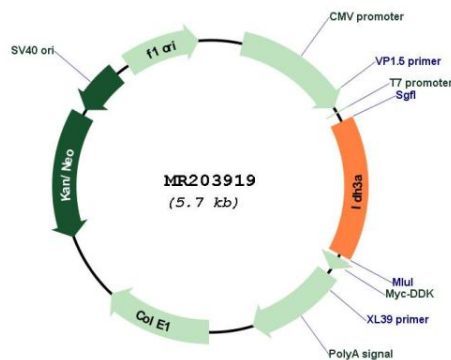
**Locus ID:** 67834

**Cytogenetics:** 9 A5.3

**MW:** 31.5 kDa

**Gene Summary:** Catalytic subunit of the enzyme which catalyzes the decarboxylation of isocitrate (ICT) into alpha-ketoglutarate. The heterodimer composed of the alpha (IDH3A) and beta (IDH3B) subunits and the heterodimer composed of the alpha (IDH3A) and gamma (IDH3G) subunits, have considerable basal activity but the full activity of the heterotetramer (containing two subunits of IDH3A, one of IDH3B and one of IDH3G) requires the assembly and cooperative function of both heterodimers.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR203919