

Product datasheet for **MG203919**

Idh3a (BC034273) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Idh3a (BC034273) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Idh3a
Synonyms:	1110003P10Rik; 1500012E04Rik; AA407078; AI316514
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203919 representing BC034273 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCCCTCCAGAAGCCAAGGAGTCCATGGATAAGAACAAGATGGGCTTGAAAGGCCCACTAAAGACCC
CAATAGCCGCTGGCCATCCATCTATGAATCTGTTGCTTCGTAAGACATTTGACCTTTATGCCAATGTCCG
GCCATGTGTCTCAATTGAAGTTATAAAACCCCTTACACGGATGTAATATCGTCACCATCCGAGAGAAC
ACGGAAGGAGAATACAGTGAATTGAGCATGTGATCGTTGATGGGTTGTGCAGAGCATCAAGCTCATCA
CCGAAGAAGCAAGCAAGCGCATTGCAGAGTTTGCCTTCGAGTACGCTCGGAACAACCACCGAGCAACGT
CACAGCTGTGCACAAAGCTAACATCATGAGGATGTGAGATGGGCTCTTTCTGCAAAAATGCAGGGAAGTT
GCGGAGAACTGTAAGACATTAATTTAACGAGATGTACCTTGATACTGTATGTTTAAATATGGTACAAG
ACCCATCCAGTTTGATGTTCTTGTGCATGCCAAATTTATACGGAGACATCCTTAGTGATCTGTGTGCAGG
ACTGATTGGAGGTCTTGGGGTACTCCAAGTGGCAATATTGGAGCCAACGGTGTGGCCATCTTTGAATCG
GTTTCATGGAACAGCCCGGACATTGCAGGCAAGGACATGGCCAACCCACGGCCCTCCTGCTTAGTGCTG
TGATGATGCTTCGCCACATGGGACTTTTGGACCATGCAGCAAAAATCGAGGCTGCATGTTTTGCTACAAT
TAAGGATGGAAGAGCTTAACAAAAGATCTGGGAGGCAACGCGAAGTGTCTGACTTCACAGAAGAAATC
TGTCGTAGAGTCAAAGACTTAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203919 representing BC034273
 Red=Cloning site Green=Tags(s)

MIPPEAKESMDKNMGLKGPLKTPIAAGHPSMNLRLKTFDLYANVRPCVSIIEGYKTPYTDVNIIVTIREN
 TEGEYSGIEHVI VDGVVQSIKLI TEEASKRIAEFAFEYARNNHRSNVTAVHKANIMRMSDGLFLQKRE
 AENCKDIKFNEMYLDTVCLNMVQDPSQFDVLMVLPNLYGDILSDL CAGLIGGLGVTSPGNIGANGVAIFES
 VHGTAPDIA GKDMANPTALLLSAVMMLRHMGLFDHAAKIEAACFATIKDGKSLTKDLGGNAKCSDFTEEI
 CRRVKDLD

TRTRPLE - GFP Tag - V

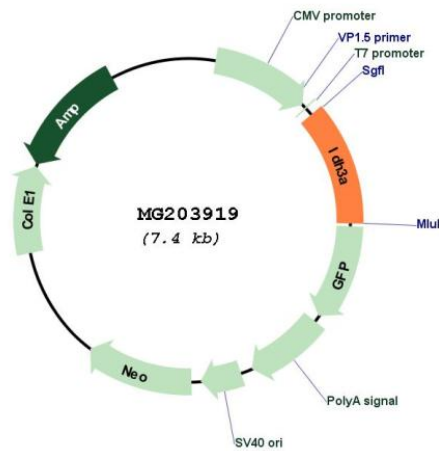
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC034273

ORF Size: 866 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:	<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:	BC034273 , AAH34273
RefSeq Size:	2416 bp
RefSeq ORF:	866 bp
Locus ID:	67834
Cytogenetics:	9 A5.3
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]