

Product datasheet for **MG216960**

Idh3g (NM_008323) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Idh3g (NM_008323) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Idh3g
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216960 representing NM_008323 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGAAGGTGGCGATAGCTGCTGGCGGTGCTGCAAAGGCAATGCTCAAGCCAACCTCCTCTGCC
GTCCTTGGGAGGTTCTGGCTGCCATGTGGCCCCGAAGGAGCATTTCCTCACAAACAATTCTCTCC
ATCTGCTAAGTATGGTGGGCGGCATACAGTGACTATGATCCCAGGGGATGGCATCGGCCAGAGCTCATG
TTGCATGTTAAGTCTGTATTAGGCATGCATGTGTGCCGGTGGACTTTGAAGAGGTGCATGTAAGCTCCA
ACGCTGATGAGGAGGACATCCGCAATGCCATCATGGCCATCCGCCGGAACCGTGTGGCCCTGAAGGGCAA
CATTGAAACAAATCATAACCTGCCACCATCCCACAAATCTCGAAACAACATCCTTCGCACCAGCCTAGAC
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TCATTGTACGGGAAAACACAGAAGGCGAGTACAGCAGCCTGGAGCATGAGAGCGTAGCAGGAGTGGTGA
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AGTGGGCGTAAGAAAGTGACGGCTGTGCACAAGGCCAACATCATGAAACTGGGTGATGGACTCTTCTCC
AGTGTGCAGGGAAGTAGCAGCCCACTACCCTCAGATCACCTTTGACAGCATGATTGTAGACAACACAAC
AATGCAGCTGGTATCCCGCCTCAGCAGTTTGTATGTCATGGTATGCCTAATCTCTATGGTAACATTGTC
AACACGTCTGTGCAGGGCTAGTTGGAGGCCAGGCCTTGTGGCTGGGGCCAACATGGCCATGTGTATG
CAGTATTCGAGACAGCTACAAGGAACACAGGCAAAGTATTGCCAATAAGAACATTGCTAACCCGACTGC
CACACTGTAGCAAGCTGCATGATGCTAGACCCTCAAGCTCCACTCCTATGCCACTTCCATCCGCAAA
GCTGTCTTAGCATCCATGGACAATGAAAATATGCATACCCAGATATTGGAGGCCAGGGCACCACATCCC
AAGCCATCCAGGACATCATTGTCATATCCGCATCATTAAATGGACGGGCTGTGGAGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG216960 representing NM_008323
 Red=Cloning site Green=Tags(s)

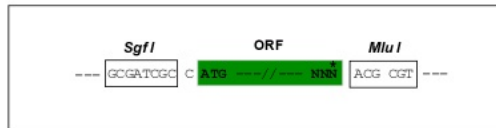
MALKVAIAAGGAAMKPTLLCRPWEVLAHVAPRRSISQQTIPPSAKYGGRHVTMIPGDGIGPELM
 LHVKSVFRHACVPVDFEEVHVSSNADEEDIRNAIMAIRNRVALKGNIEIHNHLPSSHRSRNNILRTSLD
 LYANVIHCKSLPGVVTRHKDIDILIVRENTEGEYSSLEHESVAGVVEVSLKIIITKAKSLRIAIEYAFKLAQE
 SGRKKVTAVHKANIMKLDGDLFLQCCREVAAHYPQITFDMSIVDNTTSQLVSRPQQFDVMVMPNLYGNIV
 NNVCAGLVGGPGLVAGANYGHVYAVFETATRNATGKSIANKNIANPTATLLASCMMLDHLKLSYATSIRK
 AVLASMDNENMHTPDIGGQGTTSQAIQDIIRHIRIINGRAVEA

TRTRPLE - GFP Tag - V

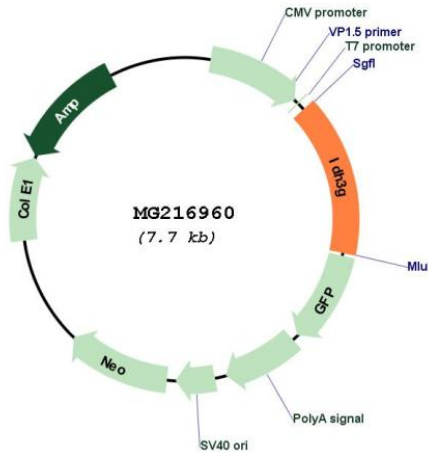
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_008323

ORF Size:	1179 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:	NM_008323.1 , NP_032349.1
RefSeq Size:	1335 bp
RefSeq ORF:	1182 bp
Locus ID:	15929
UniProt ID:	P70404
Cytogenetics:	X 37.41 cM
Gene Summary:	Regulatory subunit which plays a role in the allosteric regulation of the enzyme catalyzing 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]