

Product datasheet for **MG205049**

Mdh2 (NM_008617) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mdh2 (NM_008617) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mdh2
Synonyms:	MDH; Mdh-2; Mor-1; Mor1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205049 representing NM_008617 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTCCGCTCTCGCCGTCCTGCCGGCGCCGCTCTCCGCCGAGCTTCAGCACTTCGGCCCAGAACA
ATGCTAAAGTGGCTGTCTGGGAGCTTCTGGGGCATTGGGCAACCCCTTCACTCCTGCTGAAGAACAG
CCCCCTAGTGAGCCGCTGACCTCTACGATATCGCTCACACACCTGGTGTGGCAGCAGATCTGAGTCAC
ATTGAGACCAGAGCAAATGTGAAAGGCTACCTTGGACCGGAGCAGTTGCCAGATTGCCTCAAAGGTTGTG
ATGTGGTGGTCATCCAGCCGGAGTGCCAGGAAACCAGGAATGACACGGGATGACCTGTCAACACCAA
CGCTACCATTGTGGCCACCCTGACGGCTGCCTGTGCCAGCACTGTCTGAAGCCATGGTTGCATCATT
GCCAACCCAGTGAATCCACCATCCCCATCACAGCAGAAGTTTTCAAGAAGCACGGTGTGTACAACCCTA
ACAAGATCTTCGGTGTGACAACCCTTGACATCGTCAGAGCGAACACGTTTGTGGCAGAGCTAAAGGGTTT
GGATCCAGCTCGAGTCAACGTGCCTGTCTTGGCGCCACGCCGGGAAGACGATCATCCCCCTGATCTCT
CAGTGTACCCGAAGGTTGACTTCCCCAAGACCAGCTGGCCACACTCACCGGGAGGATCCAGGAGGCTG
GCACAGAAGTCGTGAAGGCCAAGGCTGGAGCAGGTTCTGCCACTCTGTCCATGGCTTATGCTGGAGCCCG
CTTTGTCTTCCCTCGTGGACGCCATGAACGGGAAGGAAGGAGTCGTTGAGTGTCTTTTGTTCAGTCC
AAAGACGGAATGCACCTACTTCTACGCCCTTGCTCTTGGGAAAAAGGGCCTGGAGAAGAACCTGG
GCATTGGCAAGTCACTCCTTTTGAGGAAAAAATGATTGCCGAGGCTATCCCTGAGCTGAAAGCCTCCAT
CAAGAAAGGCGAGGACTTTGTCAAGAACATGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205049 representing NM_008617
 Red=Cloning site Green=Tags(s)

MLSALARPAGAALRRSFSTSAQNNNAKVAVLGASGGIGQPLSLLLKNSPLVSRLTLYDIAHTPGVAADLSH
 IETRANVKGYLGPQLPDCLKGCDVVVIPAGVPRKPGMTRDDLFTNATIVATLTAACAQHCPEAMVCII
 ANPVNSTIPITAEVFKKHGVYNPKNKIFGVTTLDIVRANTFVAELKGLDPARVNPVIGGHAGKTIIP LIS
 QCTPKVDFPQDQLATLTGRIQEAGTEVVKAKAGAGSATLSMAYAGARFVFLVDAMNGKEGVVECSFVQS
 KETECTYFSTPLLLGKKGLEKNLGIGKITPFEEKMIAEAIPELKASIKKGEDFVKNMK

TRTRPLE - GFP Tag - V

Restriction Sites:

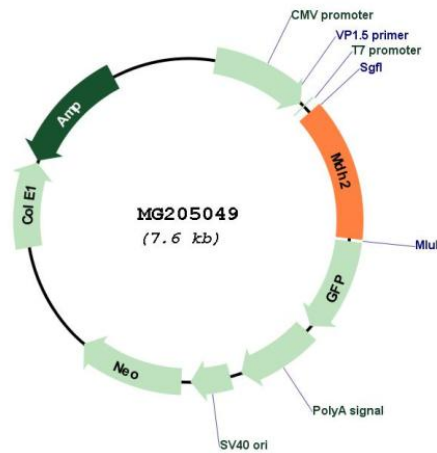
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_008617

ORF Size: 1014 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_008617.2 , NP_032643.2
RefSeq Size:	1297 bp
RefSeq ORF:	1017 bp
Locus ID:	17448
UniProt ID:	P08249
Cytogenetics:	5 75.4 cM