

Product datasheet for **MC208738**

Idh3g (NM_008323) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Idh3g (NM_008323) Mouse Untagged Clone
Tag: Tag Free
Symbol: Idh3g
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC208738 representing NM_008323
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCTGAAGGTGGCGATAGCTGCTGGCGGTGCTGCAAAGGCAATGCTCAAGCCAACCTCTCTCTGCC
 GTCCTTTGGAGGTTCTGGCTGCCATGTGGCCCCGAAGGAGCATTTCCTCACAAACAACATTCCTCC
 ATCTGCTAAGTATGGTGGCGGCATACAGTGACTATGATCCCAGGGGATGGCATCGGCCAGAGCTCATG
 TTGCATGTTAAGTCTGTATTCAGGCATGCATGTGTGCCGGTGGACTTTGAAGAGGTGCATGTAAGCTCCA
 ACGCTGATGAGGAGGACATCCGCAATGCCATCATGGCCATCCGCCGAACCGTGTGGCCCTGAAGGGCAA
 CATTGAAACAACATCATAACCTGCCACCATCCCACAAATCTCGAAACAACATCCTTCGCACCAGCCTAGAC
 CTCTATGCCAACGTCATCCACTGTAAGAGCCTGCCAGGAGTGGTGACCCGGCACAAGGACATAGACATCC
 TCATTGTACGGGAAAACACAGAAGGCGAGTACAGCAGCCTGGAGCATGAGAGCGTAGCAGGAGTGGTGGA
 GAGCTTGAAGATTATACCAAAGCCAAGTCCCTGCGCATTGCTGAATATGCTTTCAAGCTGGCCAGGAG
 AGTGGGCGTAAGAAAGTGACGGCTGTGCACAAGGCCAACATCATGAAACTGGGTGATGGACTCTTCTCC
 AGTGCTGCAGGGAAGTAGCAGCCACTACCCTCAGATCACCTTTGACAGCATGATTGTAGACAACACAAC
 AATGCAGCTGGTATCCCGCCTCAGCAGTTTGATGTCATGGTATGCCTAATCTCTATGGTAACATTGTC
 AACACGCTCTGTGCAGGGCTAGTTGGAGGCCAGGCCCTTGTGGCTGGGGCCAACATATGGCCATGTGTATG
 CAGTATTCGAGACAGCTACAAGGAACACAGGCAAAAGTATTGCCAATAAGAACATTGCTAACCCGACTGC
 CACTGCTAGCAAGCTGCATGATGCTAGACCCTCAAGCTCCACTCCTATGCCACTTCCATCCGAAA
 GCTGTCTTAGCATCCATGGACAATGAAAATATGCATACCCAGATATTGGAGGCCAGGCCACCACATCCC
 AAGCCATCCAGGACATCATTGTCATATCCGCATCATTAAATGGACGGGCTGTGGAGGCT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_008323



Insert Size:	1182 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:	<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:	<u>NM_008323.1</u> , <u>NP_032349.1</u>
RefSeq Size:	1335 bp
RefSeq ORF:	1182 bp
Locus ID:	15929
UniProt ID:	<u>P70404</u>
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]