

Product datasheet for **RR213230**

Idh3a (NM_053638) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Idh3a (NM_053638) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Idh3a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213230 representing NM_053638 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGGGTCGCGTGGGTGTCCAAGGTCTCTCGGCTGCTGGTGCCTCCACAACACAAAACAGGTGA
CAAGAGGTTTTGCTGGTGGCGTTCAGACAGTAACCTAATTCCTGGAGATGGAATTGGCCAGAAATTC
AGCCTCAGTTATGAAGATTTTTGATGCCGCAAAGCACCTATTCAGTGGGAGGAGCGGAACGTCACAGCG
ATTCAAGGACCAGGAGGAAAGTGGATGATCCCTCCAGAAGCCAAAGAGTCCATGGATAAGAACAAGATGG
GCTTGAAAGGCCCACTGAAGACCCCAATAGCAGCTGGCCATCCATCTATGAATCTGTTGCTTCGTAAGAC
ATTTGATCTTTATGCCAATGTCCGGCCATGTGTCTCAATTGAAGGTTACAAAACCCCTTACACAGATGTA
AATATTGTCACCATCCGAGAGAACACAGAAGGAGAATACAGTGAATGAGCATGTGATCGTCGATGGGG
TTGTGCAGAGCATCAAGCTCATCACTGAAGGAGCAAGCAAGCGCATTGCCGAGTTTGCCTTTGAGTACGC
GAGGAACAACCACAGGAGCAATGTCACAGCTGTGCACAAGGCCAACATCATGAGGATGTCAGATGGGCTC
TTTCTGCAAAAAATGCAGGAAGTTGCAGAGAACTGTAAGACATTAAGTTAATGAGATGTACCTCGACA
CTGTATGTTTGAATATGGTACAAGACCCGTCCCAGTTCGATGTTCTTGTGCATGCCAAATTTATATGGAGA
CATCCTTAGTGATCTGTGTGACGACTGATTGGAGGTCTTGGTGTGACTCAAAGTGGCAATATTGGAGCC
AACGGTGTGCCATCTTTGAATCGGTTACGGGACAGCCCGGACATTGCAGGCAAGGACATGGCCAACC
CCACGGCCCTGCTGCTCAGTGTGTGATGCTGCGTACATGGGCCTTTTGACCACGCGAGCAAAAAAT
CGAGGCTGCGTGTGTTGCTACAATTAAGGATGGGAAGAGCTTAACAAAAGATCTGGGAGGCAACTCGAAG
TGCTCTGACTTCACAGAAGAAATCTGTCGTAGAGTAAAAGACTTAGAT

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR213230 representing NM_053638
 Red=Cloning site Green=Tags(s)

MAGSAWVSKVSRLLGAFHNTKQVTRGFAGGVQTVTLIPGDGIGPEISASVMKIFDAAKAPIQWEERNVTA
 IQPGGKWMIPPEAKESMDKNMGLKGPLKTPIAAGHPSMNLRLRKTFDLYANVRPCVSIIEGYKTPYTDV
 NIVTIRENTEGEYSGIEHVIVDGVVQSIKLITEGASKRIAEFAFEYARNNHRSNVTAVHKANIMRMSDGL
 FLQKCREVAENCKDIKFNEMYLDTVCLNMVQDPSQFDVLMVPLNYGDILSDLCAGLIGGLGVTQSGNIGA
 NGVAIFESVHGTAPDIAGKDMANPTALLLSAVMMLRHMGLFDHAAKIEAACFATIKDGTKSLTKDLGGNSK
 CSDFTTEICRRVKDLD

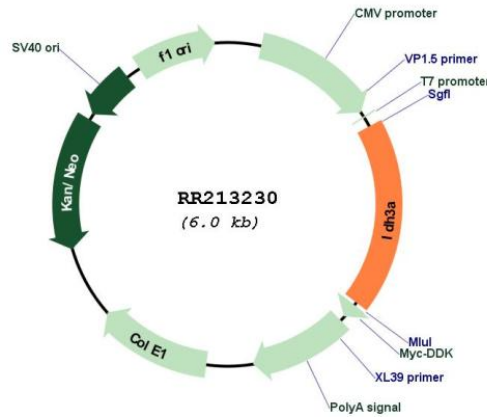
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053638

ORF Size:	1098 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_053638.1 , NP_446090.1
RefSeq Size:	2449 bp
RefSeq ORF:	1101 bp
Locus ID:	114096
UniProt ID:	Q99NA5
Cytogenetics:	8q24
MW:	39.6 kDa
Gene Summary:	alpha subunit of the NAD(+)-dependent isocitrate dehydrogenase that is important for metabolism in brown adipose tissue [RGD, Feb 2006]