

## Product datasheet for **RR207374**

### Idh3g (NM\_031551) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Idh3g (NM_031551) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Idh3g
Synonyms:	IDH
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207374 representing NM_031551 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGCTGAAGGTGGCGATAGCTGCTGGCAGTGTGCAAAGGCAATATCAAGCCAGCTCTCTCTGCC  
GTCCTTGGGAGGTTCTGGCTGCCATGAGGCCCCCGAAGGAGCATTTCTCACAAACAATCTCTCC  
GTCTGCTAAGTATGGTGGCGGCATACAGTGACTATGATTCCAGGGGATGGCATCGGCCCGAGCTCATG  
TTGCATGTTAAGTCGGTATTCAGGCATGCATGTGTGCCAGTGGACTTTGAAGAGGTGCATGTAAGCTCCA  
ACGCTGATGAGGAGGACATCCGCAATGCCATCATGGCCATCCGCCGGAACCGTGTGGCTCTAAAGGGCAA  
CATCGAAACAATCATAACTTGCCACCATCCCACAATCCCGAACAACATCCTTCGTACCAGCCTAGAC  
CTCTATGCCAACGTCATCCACTGTAAGAGTCTGCCAGGAGTGGTGACCCGGCACAAGGACATAGACATCC  
TCATTGTGCGGGAAAACACAGAAGGCGAGTACAGCAGCCTGGAGCATGAGAGTGTAGCAGGAGTGGTGA  
GAGCTTGAAGATTATACCAAAGCCAAGTCCCTGCGCATTGCTGAATATGCTTTCAAGCTGGCCAGGAG  
AGTGGGCGTAAGAAAGTACGGCTGTGCACAAGGCCAACATCATGAAACTGGGTGATGGACTCTTCTCC  
AGTGTTCAGGGAAGTGGCAGCCCGTACCCTCAGATCACCTTTGATAGCATGATTGTGGACAACAAC  
AATGCAGCTGGTATCCCGCCTCAGCAGTTTGTGTCATGGTATGCCTAATCTCTATGGTAACATTGTC  
AACAACGTCTGTGCAGGGCTAGTTGGAGGCCAGGCCCTGTGGCTGGGGCCAACATGGCCATGTGTATG  
CAGTATTCGAGACAGCTACAAGGAACACAGGCAAAAGTATTGCCAATAAGAACATTGCTAACCTACTGC  
CACATTGTAGCAAGTTGCATGATGCTAGACCCTCAAGCTCCATTCCTATGCCACCTCCATCCGAAAA  
GCTGTCTTAGCATCCATGGACAATGAAAATATGCATACCCAGACATTGGAGGCCAGGCCACCACATCCC  
AAGCCATCCAGGACATCATTGTCACATCCGCATCATAATGGACGGGCTGTGGAGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR207374 representing NM\_031551  
Red=Cloning site Green=Tags(s)

MALKVAIAAGSAAKAIFKPALLCRPWEVLAHEAPRRSISQQTIPPSAKYGGRHVTMIPGDGIGPELM  
 LHVKSVFRHACVPVDFEEVHVSSNADEEDIRNAIMAIRNRVALKGNIEIETHNLPPSHKSRNNILRTSLD  
 LYANVIHCKSLPGVVTRHKDIDILIVRENTEGEYSSLEHESVAGVVESLKIITKAKSLRIAIEYAFKLAQE  
 SGRKKVTAVHKANIMKLDGDLFLQCCREVAARYPQITFDSMIVDNTTMQLVSRPQQFDVMVMPNL YGNIV  
 NNVCAGLVGGPGLVAGANYGHVYAVFETATRNTGKSIANKNIANPTATLLASCMMLDHLKLSYATSIRK  
 AVLASMDNENMHTPDIGGQGTTSQAIQDIIRHIRIINGRAVEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

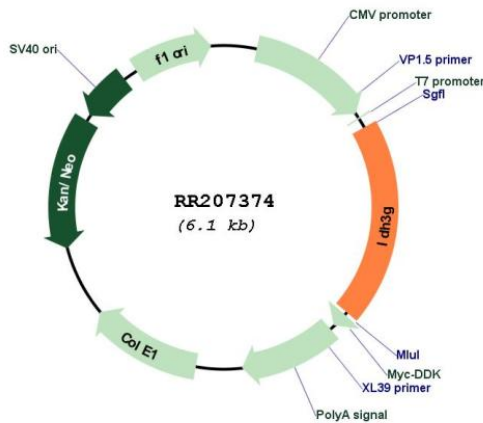
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_031551

<b>ORF Size:</b>	1179 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_031551.1</a> , <a href="#">NP_113739.1</a>
<b>RefSeq Size:</b>	1371 bp
<b>RefSeq ORF:</b>	1182 bp
<b>Locus ID:</b>	25179
<b>Cytogenetics:</b>	Xq37
<b>MW:</b>	42.9 kDa
<b>Gene Summary:</b>	gamma subunit of NAD(+)-isocitrate dehydrogenase, which catalyzes oxidative decarboxylation of citrate, and may function in the TCA cycle [RGD, Feb 2006]