

## Product datasheet for **MG202875**

### Dhrs3 (BC008980) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dhrs3 (BC008980) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dhrs3
Synonyms:	Rsdr1, retSDR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202875 representing BC008980 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGTGCCCCCAAGCTTCGGGACTTGTGCGGGAGTCAGTCCTCATCACCGCGGTGGGAGAGGCA  
TCGGACGCCACCTCGCTCGGGAGTTCGCAGAGCGCGGCCAGAAAGATTGTTCTCTGGGGCGGACTGA  
AAAATGCCTCAAGGAGACGACAGAGGAGATTCGGCAGATGGGCACAGAGTGCCACTACTTCATCTGTGAC  
GTGGGCAACCGGAAGAGGTGTACCAGATGGCCAAAGCTGTCCGAGAGAAGACCACCAAGCCTTTTTGC  
CACGTATGCTGGAACCCAGAACGGCCATATTGTGTGCCTCAATTCGGTGTGCTGACTGTCAGCCATCCC  
TGGCGCCATCGACTACTGCACGTCAAAGCGTCAAGCCTTCGCCTTCATGGAGAGCCTGACCTTGGGGCTG  
TTGGACTGTCCTGGTGTGACGCGCCACCACCGTTTGCCTTTCACACCAGCACCGAGATGTTCCAGGGCA  
TGAGAGTCAGGTTTCCCAACCTCTTCCCGCCACTGAAGCCAGAGACAGTAGCCCGGAGGACGGTAGATGC  
TGTGCAACAAAACCGGCCCTTCTTGTCTCCCGTGGACCATGAATATCCTCATTATCTTGAAAAGCATA  
CTCCACAAGCTGCACTGGAGGAGATTCACAGTTCTCGGGGACTTACACCTGTATGAACACCTTTAAGG  
GGAGGACA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202875 representing BC008980  
Red=Cloning site Green=Tags(s)

MVLPPKLRDLSRESVLITGGGRGIGRHLAREFAERGARKIVLWGRTEKCLKETTEEIRQMGTECHYFICD  
 VGNREEVYQMAKAVREKTTKAF LPRMLELQNGHIVCLNSVLALSAIPGAIDYCTSKASAFAMESLTLGL  
 LDCPGVSATTVLPFHSTEMFQGMRVRFPNLFPPLKPE TVARRTVDAVQQNQALLLPLWTMNILIILKSI  
 LPQAAL E E I H R F S G T Y T C M N T F K G R T

TRTRPLE - GFP Tag - V

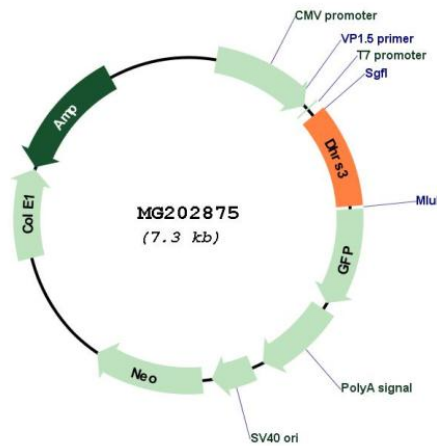
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** BC008980

**ORF Size:** 710 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="#">BC008980</a> , <a href="#">AAH08980</a>
<b>RefSeq Size:</b>	1347 bp
<b>RefSeq ORF:</b>	710 bp
<b>Locus ID:</b>	20148
<b>Cytogenetics:</b>	4 E1
<b>Gene Summary:</b>	Catalyzes the reduction of all-trans-retinal to all-trans-retinol in the presence of NADPH. [UniProtKB/Swiss-Prot Function]