

Product datasheet for **MG204223**

Dhrs3 (NM_011303) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dhrs3 (NM_011303) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dhrs3
Synonyms:	retSDR1; Rsdr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204223 representing NM_011303 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTGAAATGGCTGGGCGCGCTGGTAGTGTCCCTCTGCAAATGATCTATTTGGTAACCAAAGCAG
CCGTGGGAATGGTGTGCCCCCAAGCTTCGGGACTTGTGCGGGAGTCAGTCCTCATACCGGCGGTGG
GAGAGGCATCGGACGCCACCTCGCTCGGGAGTTCGCAGAGCGTGGCGCCAGAAAGATTGTTTTCTGGGG
CGGACTGAAAAATGCCTCAAGGAGACGACAGAGGAGATTCGGCAGATGGGCACAGAGTGCCACTACTTCA
TCTGTGACGTGGCAACCGGAAGAGGTGTACCAGATGGCCAAAGCTGTCCGAGAGAAGGTGGGTGACAT
CACCATCCTGGTGAACAATGCCGCTGTGGTCCATGGAAAAAGCTTGATGGACAGTGACGATGATGCCCTC
CTCAAGTCCCAGCATGTCAACACCTGGGCCAATTCTGGACCACCAAGGCCTTTTGGCCAGTATGCTGG
AACTCCAGAACGGCCATATTGTGTGCCTCAATTCGCTGCTTGCACTGTGACCCATCCCTGGCGCCATCGA
CTACTGCACGTCAAAGCATCAGCCTTCGCCTTCATGGAGAGCCTGACCTTGGGGCTGTTGGACTGTCT
GGTGTGACGCGCCACCACCGTTCTGCCCTTTCACACCAGCACCGAGATGTTCCAGGGCATGAGAGTCAGGT
TTCCCAACCTCTCCCGCCACTGAAGCCAGAGACAGTAGCCCGGAGGACGGTAGATGCTGTGCAACAAAA
CCAGGCCCTTCTTTGCTCCCGTGGACCATGAATATCCTCATTATCTTAAAAAGCATACTCCCAAGCT
GCACTGGAGGAGATTCACAGGTTCTCGGGGACTTACACCTGTATGAACACCTTTAAGGGGAGGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204223 representing NM_011303
 Red=Cloning site Green=Tags(s)

MVWKWLGALVVFPLQMIYLVTKAAVGMVLPPKLRDL SRESVLITGGGRGIGRHLAREFAERGARKIVFWG
 RTEKCLKETTEEIRQMGTECHYFICDVGNREEVYQMAKAVREKVDITILVNNAAVVHGKSLMDSDDAL
 LKSQHVNTLGQFWTTKAF LPRMLELQNGHIVCLNSVLALSAIPGAIDYCTSKASAF AFMESLTLGLLDCP
 GVSATTVLPFHTSTEMFQGMRVRFPNLFPPLKPE TVARRTVDAVQQNQALLLLPWTMNILIILKSILPQA
 AL EEIHRFSGTYTCMNTFKGRT

TRTRPLE - GFP Tag - V

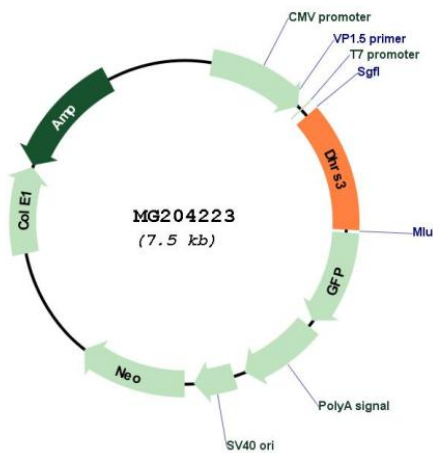
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_011303

ORF Size: 1728 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_011303.2
RefSeq Size:	2339 bp
RefSeq ORF:	909 bp
Locus ID:	20148
UniProt ID:	O88876
Cytogenetics:	4 E1
Gene Summary:	Catalyzes the reduction of all-trans-retinal to all-trans-retinol in the presence of NADPH. [UniProtKB/Swiss-Prot Function]