

## Product datasheet for **MG220723**

### Dhrs4 (NM\_030686) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dhrs4 (NM\_030686) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Dhrs4  
**Synonyms:** AI043103; AI790593; CR; D14Ucla2; mouNRDR; NDRD; PHCR; PSCD; RRD  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG220723 representing NM\_030686  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGAAAGCGGGACGGCTGTTAGGTGGTTGGACTCAAGCGTGGATGTCGGTGAGGATGGCCAGTTCCG  
GGTTGACTCGTCGAAACCCTCTCTCCAATAAGGTGGCCCTGGTCACAGCCTCCACCGACGGGATCGGCTT  
TGCCATCGCCGGCGCCTGGCTGAAGATGGGGCCACGTGGTCGTCAGCAGCCGAAACAGCAGAATGTG  
GACCGTGCAGTGGCCACACTACAGGGAGAGGGCCTGAGTGTGACTGGCATCGTGTCCACGTGGGAAGG  
CAGAGGATCGAGAAAAGCTGATAACCACGGCTCTGAAGCGTCACCAGGGATTGATATCCTGGTCTCCAA  
TGCTGCTGTCAACCCCTTTCTTTGGAAATCTAATGGATGTCACAGAGGAGGTGTGGGACAAGTTTTGAGC  
ATTAATGTGACAGCTACAGCCATGATGATTAAGCGGTGGTCCAGAGATGGAAAAGCGAGGAGGCGGCT  
CAGTGGTATTGTGGTTCTGTAGCAGGCTTCACTCGGTTCCCTGTGAGTACCTGTGCTCCTTCCATCC  
TACGCCATCCACCCTCCAACCTGCCAAAGATGTATTTACCATCATCTACCAAGTCTCTCCACAAA  
AGAGACACCTTGCTTCCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG220723 representing NM\_030686  
Red=Cloning site Green=Tags(s)

MQKAGRLLGGWTQAWMSVRMASSGLTRRNPLSNKVALVTASTDGIGFAIARRLAEDGAHVVVSSRKQQN  
 DRAVATLQGEGLSVTGI VCHVGKAEDREKLIT TALKRHQIDILVSNAAVNPF FGNLMDVTEEVWDKVL S  
 INV TATAMMIKAVVPEMEKRGGSVVIVGSVAGFTRFPVSTCRSFHPTPSTPPTAQR CILPSSYQVL SHK  
 RD TLLP

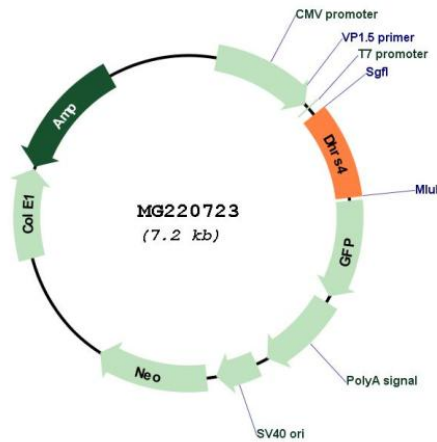
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_030686

**ORF Size:** 648 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_030686.2</a> , <a href="#">NP_109611.1</a>
<b>RefSeq Size:</b>	962 bp
<b>RefSeq ORF:</b>	651 bp
<b>Locus ID:</b>	28200
<b>Cytogenetics:</b>	14 28.19 cM
<b>Gene Summary:</b>	Reduces all-trans-retinal and 9-cis retinal. Can also catalyze the oxidation of all-trans-retinol with NADP as co-factor, but with much lower efficiency. Reduces alkyl phenyl ketones and alpha-dicarbonyl compounds with aromatic rings, such as pyrimidine-4-aldehyde, 3-benzoylpyridine, 4-benzoylpyridine, menadione and 4-hexanoylpyridine. Has no activity towards aliphatic aldehydes and ketones (By similarity).[UniProtKB/Swiss-Prot Function]