

## Product datasheet for **MG203776**

### Dhrs4 (BC054361) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Dhrs4 (BC054361) Mouse Tagged ORF Clone  
 Tag: TurboGFP  
 Symbol: Dhrs4  
 Synonyms: mouNRDR, RRD  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-AC-GFP (PS100010)  
 E. coli Selection: Ampicillin (100 ug/mL)  
 ORF Nucleotide Sequence: >MG203776 representing BC054361  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGAAAGCGGGACGGCTGTTAGGTGGCTGGACTCAAGCGTGGATGTCGGTGAGGATGGCCAGTTCCG  
 GGTTGACTCGTCGAAACCCTCTCTCGAATAAGGTGGCCTTGGTACAGCCTCCACCGACGGGATCGGCTT  
 TGCCATCGCCCGTCGTCTGGCTGAAGATGGGGCCACGTGGTCGTCAGCAGCCGAAACAGCAGAATGTG  
 GACCGTGCAGTGGCCACACTACAGGGAGAGGGCCTGAGTGTGACTGGCATCGTGTCCACGTGGGAAGG  
 CAGAGGATCGAGAAAAGCTGATAACCACGGCTCTGAAGCGTCACCGGGGATTGATATCCTGGTCTCCAA  
 TGCTGCTGTCAACCCCTTTCTTTGGAAATCTAATGGATGTCACAGAGGAGGTGTGGACAAGTTTTGAGC  
 ATTAATGTGACAGCTACAGCCATGATGATTAAGCGGTGGTGCCAGAGATGGAAAAGCGAGGAGCGGCT  
 CAGTGGTGATTGTGGTTCTGTAGCAGGCTTCACTCGGTTCCCTTCTCTGGGTCCTTACAATGTTAGCAA  
 AACAGCTTTGCTGGGCTTACTAAGAACTTTGCAGCGGAGTTGGCCCCGAAGAACATTCGAGTGAAGTGC  
 TTAGCACCTGGACTCATCAAGACTCGATTCAGCAGTGTGTTGTGGGAGGAGAAAGCAAGAGAGGACTTCA  
 TAAAAGAAGCCATGCAAATCAGAAGGCTAGGCAAGCCAGAGGATTGTGCTGGCATAGTTTCTTCTTATG  
 CTCTGAAGACGCCAGTTACATCAATGGAGAGACCGTAGTAGTGGGGGAGGAACCCCTTCTCGCCTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >MG203776 representing BC054361  
 Red=Cloning site Green=Tags(s)

MQKAGRLLGGWTQAWMSVRMASSGLTRRNPLSNKVALVTASTDGIGFAIARRLAEDGAHVVVSSRKQNV  
 DRAVATLQGEGLSVTGI VCHVGKAEDREKLIT TALKRHRGIDILVSNAAVNPF FGNLMDVTEEVWDKVL S  
 INV TATAMMIKAVVPEMEKRGGSVVIVG SVAGFTRF PSLGPYVNSKTALLGLTKNFAAELAPKNIRVNC  
 LAPGLIKTRFSSVLWEEKAREDFIKEAMQIRRLGKPEDCAGIVSFLCSEDASYINGETVVVGGGTPSRL

TRTRPLE - GFP Tag - V

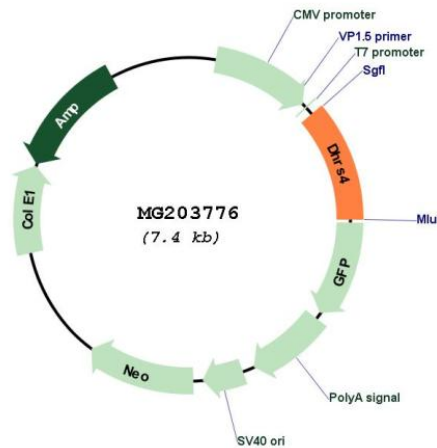
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** BC054361

**ORF Size:** 839 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="#">BC054361</a> , <a href="#">AAH54361</a>
<b>RefSeq Size:</b>	1375 bp
<b>RefSeq ORF:</b>	839 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]