

## Product datasheet for **RG208452**

### DHFRL1 (DHFR2) (NM\_176815) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DHFRL1 (DHFR2) (NM\_176815) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** DHFRL1  
**Synonyms:** DHFRL1; DHFRP4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG208452 representing NM\_176815  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTTTCTTTTGCTAAACTGCATCGTCGCTGTGTCCAAAACATGGGCATCGGCAAGAACGGGGACCTGC  
CCAGGCCCGCTCAGGAATGAATTCAGGTATTTCCAGAGAATGACCACAACCTTCTCAGTAGAGGGTAA  
ACAGAATCTGGTGATTATGGGTAGGAAGACCTGGTCTCCATTCTGAGAAGAATCGACCTTTAAAGGAT  
AGAATTAATTTAGTTCTCAGCAGAGAATAAAGGAACCTCCACAAGGAGCTCATTTCTTGCCAGAAGTT  
TGGATGATGCCTAAAACCTTACTGAACGACCAGAATTAGCAAATAAAGTAGACATGATTTGGATAGTTGG  
TGGCAGTTCTGTTTATAAGGAAGCCATGAATCACCTAGGCCATCTAAACTATTTGTGACAAGGATCATG  
CAGGACTTTGAAAGTGACACGTTTTTTTTCAGAAATTGACTTGGAGAAATATAAACTTCTGCCTGAATACC  
CAGGTGTTCTCTGATGTCCAGGAGGGGAAACACATCAAGTACAAATTTGAAGTATGTGAGAAGGATGA  
T

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG208452 representing NM\_176815  
Red=Cloning site Green=Tags(s)

MFLLLNIVAVSQNMGIGKNGDLPRPPLRNEFRYFQRMTTTTSSVEGKQNLVIMGRKTWFSIPEKNRPLKD  
RINLVLRELKEPPQGAHFLARSLDDALKLTERPELANKVDMIWVGGSSVYKEAMNHLGHLKLFVTRIM  
QDFESDTFFSEIDLEKYKLLPEYPGVLSVQEGKHICYKFEVCEKDD

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_176815

**ORF Size:** 561 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:**

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\\_176815.3](#)

**RefSeq Size:** 3772 bp

**RefSeq ORF:** 564 bp

**Locus ID:** 200895

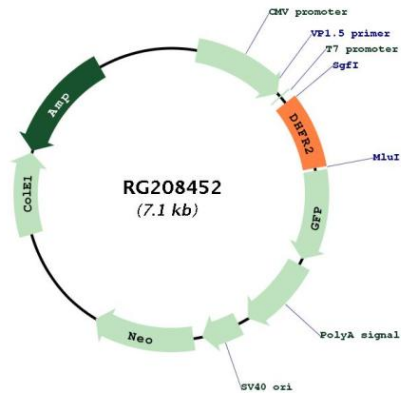
**UniProt ID:** [Q86XF0](#)

**Cytogenetics:** 3q11.2

Protein Families: Druggable Genome

Gene Summary: Key enzyme in folate metabolism. Contributes to the de novo mitochondrial thymidylate biosynthesis pathway. Required to prevent uracil accumulation in mtDNA. Binds its own mRNA and that of DHFR.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG208452