

Product datasheet for RC200089L4

DHFR (NM_000791) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: DHFR (NM_000791) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: DHFR

Synonyms: DHFRP1; DYR

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

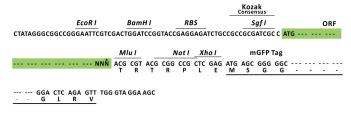
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC200089).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





st The last codon before the Stop codon of the ORF.



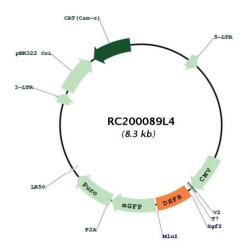
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Plasmid Map:



ACCN: NM_000791

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: <u>NM 000791.3</u>

RefSeq Size: 3932 bp RefSeq ORF: 564 bp



DHFR (NM_000791) Human Tagged Lenti ORF Clone - RC200089L4

 Locus ID:
 1719

 UniProt ID:
 P00374

 Cytogenetics:
 5q14.1

Domains: DiHfolate_red

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Folate biosynthesis, Metabolic pathways, One carbon pool by folate

MW: 21.5 kDa

Gene Summary: Dihydrofolate reductase converts dihydrofolate into tetrahydrofolate, a methyl group shuttle

required for the de novo synthesis of purines, thymidylic acid, and certain amino acids. While the functional dihydrofolate reductase gene has been mapped to chromosome 5, multiple intronless processed pseudogenes or dihydrofolate reductase-like genes have been identified

on separate chromosomes. Dihydrofolate reductase deficiency has been linked to megaloblastic anemia. Several transcript variants encoding different isoforms have been

found for this gene. [provided by RefSeq, Mar 2014]