

Product datasheet for **RC232027**

DHFRL1 (DHFR2) (NM_001195643) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DHFRL1 (DHFR2) (NM_001195643) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DHFR2
Synonyms: DHFRL1; DHFRP4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC232027 representing NM_001195643
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTTCTTTTGCTAAACTGCATCGTCGCTGTGTCCAAAACATGGGCATCGGCAAGAACGGGGACCTGC
CCAGGCCGCCGCTCAGGAATGAATTCAGGTATTTCCAGAGAATGACCACAACCTTCTCAGTAGAGGGTAA
ACAGAATCTGGTGATTATGGGTAGGAAGACCTGGTTCTCCATTCTGAGAAGAATCGACCTTTAAAGGAT
AGAATTAATTTAGTTCTCAGCAGAGAATCAAGGAACCTCCACAAGGAGCTCATTTTCTTGCCAGAAGTT
TGGATGATGCCTTAAACTTACTGAACGACCAGAATTAGCAAATAAAGTAGACATGATTTGGATAGTTGG
TGGCAGTTCTGTTTATAAGGAAGCCATGAATCACCTAGGCCATCTTAACTATTTGTGACAAGGATCATG
CAGGACTTTGAAAGTGACACGTTTTTTTCAGAAATTGACTTGGAGAAATATAAAGTTCTGCCTGAATACC
CAGGTGTTCTCTCTGATGTCCAGGAGGGGAAACACATCAAGTACAAATTTGAAGTATGTGAGAAGGATGA
T

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC232027 representing NM_001195643
Red=Cloning site Green=Tags(s)

MFLLLNIVAVSQNMGIGKNGDLPRPPLRNEFRYFQRM TTTSSVEGKQNLVIMGRKTFWFSIPEKNRPLKD
RINLVL SRELKEPPQGAHFLARSLDDALKLTERPELANKVDMIWIVGGSSVYKEAMNHLGHLKLFVTRIM
QDFESDTFFSEIDLEKYKLLPEYPGVLSDVQEGKHIKYKFEVCEKDD

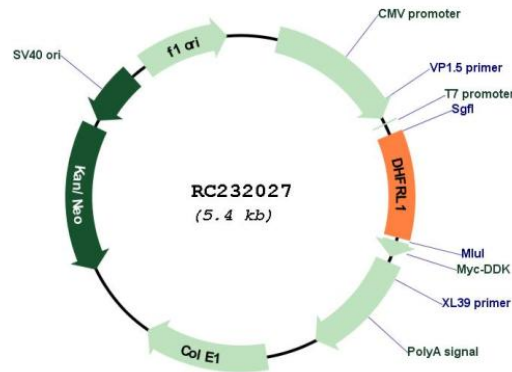
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001195643

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_001195643.2](#)

RefSeq Size: 4047 bp

RefSeq ORF: 564 bp

Locus ID: 200895

UniProt ID: [Q86XF0](#)

Cytogenetics: 3q11.2

Protein Families: Druggable Genome

MW: 22.1 kDa

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]