

Product datasheet for **SC108348**

DHFRL1 (DHFR2) (NM_176815) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHFRL1 (DHFR2) (NM_176815) Human Untagged Clone
Tag:	Tag Free
Symbol:	DHFRL1
Synonyms:	DHFRL1; DHFRP4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108348 sequence for NM_176815 edited (data generated by NextGen Sequencing) ATGTTTCTTTTGCTAAACTGCATCGTCGCTGTGTCCCAAACATGGGCATCGGCAAGAAC GGGGACCTGCCAGCCGCGCTCAGGAATGAATTCAGGTATTTCCAGAGAATGACCACA ACTTCTTCAGTAGAGGGTAAACAGAATCTGGTGATTATGGGTAGGAAGACCTGGTTCTCC ATTCCTGAGAAGAATCGACCTTTAAAGGATAGAATTAATTTAGTTCTCAGCAGAGAACTC AAGGAACCTCCACAAGGAGCTCATTTTCTTGCCAGAAGTTGGATGATGCCTTAAACTT ACTGAACGACCAGAATTAGCAAATAAAGTAGACATGATTTGGATAGTTGGTGGCAGTTCT GTTTATAAGGAAGCCATGAATCACCTAGGCCATCTTAAACTATTTGTGACAAGGATCATG CAGGACTTTGAAAGTGACACGTTTTTTTCAGAAATTGACTTGGAGAAATATAAACTCTG CCTGAATACCCAGGTGTTCTCTCTGATGTCCAGGAGGGGAAACACATCAAGTACAATTT GAAGTATGTGAGAAGGATGATTAA

Clone variation with respect to NM_176815.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_176815 unedited
 NGGGGGTT CAGCAATTGTATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGGCACA
 CATCTGCGCGCCTGTGCGGCCCTGCTTCTGCGGATGCTGAGGCACGTAATAAATTTGA
 AGAAGGAATTTTCGCGCATTCTTGGCCTGGCTTCTGGCGTAGCCAGCAAGTTCGGAGG
 TGTTAACCGCTGCTGTATGTTTCTTTTCTAACTGCATCGTCGCTGTGCCAAAACA
 TGGGCATCGGCAAGAACGGGACCTGCCAGGCCGCGCTCAGGAATGAATTCAGGTATT
 TCCAGAGAATGACCACAATTCTTCAGTAGAGGGTAAACAGAATCTGGTGATTATGGGTA
 GGAAGACCTGGTTCTCCATTCTGAGAAGAATCGACCTTTAAAGGATAGAATTAATTTAG
 TTCTCAGCAGAGAACTCAAGGAACCTCCACAAGGAGCTCATTTTCTTGCCAGAAGTTTGG
 ATGATGCCTTAAACTTACTGAACGACCAGAATTAGCAAATAAAGTAGACATGATTTGGA
 TAGTTGGTGGCAGTTCTGTTTAAAGGAAGCCATGAATCACCTAGGCCATCTTAACTAT
 TTGTGACAAGGATCATGCAGGACTTTGAAAGTGACACGTTTTTTTTCAGAAATTGACTTGG
 AGAAATATAAACTTCTGCCTGAATACCCAGGTGTTCTCTCTGATGTCCAGGAGGGGAAAC
 ACATCAAGTACAAATTTGAAGTATGTGAGAAGGATGATTAATATGAAANGGTGTTTCTGG
 TTTAAGNTGTTCCCTCCCTCTGAGAAAAGTATGCATTTTACATTAGAAAAGGACTT
 TTGTTGACTTCAGATCTATGGNATAATTATTTCTAAGCACGTGTTTTATTCTCTACTAA
 TCTGGCCTTNTCCAGATCCAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_176815 unedited
 NNGGGTCTGNCATGNACCGCGGCACGCAATCTAAGATCGAGTTTTTTTTTTTTTTTTTTT
 ACTTTTGTCTTATCTTCAATGCACTTCTTTCCAAATGCCCAAATCTGGCAATAACCTAT
 TATTTTTAAGAGAAGGGATCTCACTATGGTGGCCAGGCTGCTCTGAACTCTTGGGCTCAA
 GCCATCCTTTTGTAGCTCCTGAGTAGCTGGGACTACAAGCATGGGCCATCCCACCCA
 GCTAATCTATTAGTATTTTACTGTTTCTTTTAAAGCTAGCTCCATAGCTGGAATATTG
 CCTGTGTTGGATACTATTTGCTGGATCCACGTCATTCTCTGGTTTGTGTACGCCTTCATT
 TTGCTGGAGTATTTTCTCCGATAGCTTCCCAAGAAAGGGTACATGTAACCCTGAGTCTT
 TGCTTGTCTAAAAATGTATTATTTTACCTTACCCCTTGATTCTTTGCCTGAATATAGATT
 TATCAGTTGAAAATAACTTTATAGAATTCTGAAGGCATGGTCCGTTGTTTTTTCAGATTCT
 TTTTTGAGACAGGGTCTCTTCTGTCACCCAGGCAGGAGTGCAGTGGCAAATCACGACTC
 ACTGCAGCCTTGAACCTCATGGGCTCAATTGAATCCTCCATCTCAGCCCCGTGAGTAGACG
 AGACTACAGGTGCGTGCCACAATGCCAGCCAATTTTTGTATCTTCTGTAGAGACAGGGC
 TCCACCATGTTGCCAAGCTGGTCTCAAGTGATCCACCCACCTCATCCCCCAAATGCTG
 GGACCCACAGCGTGAGCCACCCCTGCTGGCCAGTTTTTAAATTCCCTCCCTAACTCTTTCA
 TTTCTCAAAGGGCTCTCAACCTCGTGGGCCCCAATAC

Restriction Sites:

NotI-NotI

ACCN:

NM_176815

Insert Size:

3300 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_176815.2](#), [NP_789785.1](#)

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]
Transcript Variant: This variant (2) differs in its 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.