

Product datasheet for **SC321334**

DHFR (NM_000791) Human Untagged Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | DHFR (NM_000791) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | DHFR |
| Synonyms: | DHFRP1; DYR |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC (PS100020) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_000791.3
 CTTGACCGCGCTTCTGCTGTAACGAGCGGGCTCGGAGGTCTCCCGCTGCTGTCATGGT
 TGGTTCGCTAAATGCATCGTCTGCTGTGCCAGAACATGGGCATCGGCAAGAACGGGA
 CCTGCCCTGGCCACCGCTCAGGAATGAATTCAGATATTTCCAGAGAATGACCACAACCTC
 TTCAGTAGAAGGTAACAGAATCTGGTATTATGGGTAAGAAGACCTGGTTCTCCATTCC
 TGAGAAGAATCGACCTTTAAAGGGTAGAATTAATTTAGTTCTCAGCAGAGAACTCAAGGA
 ACCTCCACAAGGAGCTCATTTTCTTTCCAGAAGCTAGATGATGCCTTAAAACTTACTGA
 ACAACCAGAATTAGCAAATAAAGTAGACATGGTCTGGATAGTTGGTGGCAGTTCTGTTTA
 TAAGGAAGCCATGAATCACCCAGGCCATCTTAACTATTTGTGACAAGGATCATGCAAGA
 CTTTGAAGTGACACGTTTTTTCCAGAAATGATTTGGAGAAATAAACTTCTGCCAGA
 ATACCCAGGTGTTCTCTGATGTCAGGAGGAGAAAGGCATTAAGTACAAATTTGAAGT
 ATATGAGAAGAATGATTAATATGAAGGTGTTTTCTAGTTAAGTTGTTCCCCCTCCCTCT
 GAAAAAAGTATGATTTTTACATTAGAAAAGTTTTTTGTTGACTTTAGATCTATAATTA
 TTTCTAAGCAACTAGTTTTTATCCCACTACTCTTGTCTCTATCAGATACCATTTATGA
 GACATTCTTGCTATAACTAAGTGCTTCTCCAAGACCCCACTGAGTCCCCAGCACCTGCT
 ACAGTGAGCTGCCATCCACACCCATCACATGTGGCACTTTGCCAGTCTTGACATTGT
 CGGGCTTTTACATGTTGGTAATATTTATTAAGATGAAGATCCACATACCCTTCAACTG
 AGCAGTTTCACTAGTGGAAATACCAAAAGCTTCTACGTGATATCCAGAGGTTTGTAGA
 TAAATGTTGCCACCTTGTTTGTAAACAGTGAAAAATGAAAAACAACCTGGAAGTCCAGTGA
 TGGGAAAAATGAGTATGTTTCTGTCTTAGATTGGGGAACCCAAAGCAGATTGCAAGACTGA
 AATTTTCAGTGAAGCAGTGATTTGCTAGGTCATACCAGAAATCATCAATTGAGGTACGG
 AGAAACTGAACTGAGAAGGTAAGAAAAGCAATTTAAAGTCAGCGAGCAGGTTCTCATTGA
 TAACAAGCTCCACTACTGCTGAGATACAGGGAAATGGAGGGGGAAAGCTGGAGATTGAT
 CCCGCCCCCTCCTTGGTTGTGTCAGCTCCCTGTCCCTGTGTGTGGCGGAACATAGTCCAGC
 TGCTCTATAGCAAGTCTCAGGTGTTTGCAGTAAGAAGCTGCTGGCATGCACGGGAACAGT
 GAATGCCAAACACTTAAAGCAATTCGATGTTTAAAGTATGTAAGTTCTTTTTTTTTAGAC
 AGCGTTTTCGCTCTTGTGGCCAGGCTGGCATGCAGTGGTGTGACCTCGGCTTACTGCAAC
 CTCCGCTTCCCAGATTCAGCGATTCTCCTGCCTCAGGCTCCCAAGTAGCTAGGACCAG
 GTGCGCGCCACCACGCCGGCTAATTTTTGTATTTTGTATTTTGTAGTAGAGATGGGGTTT
 CACCATGTTGGTCAAGGCTGGTCTCGAACTCGTGACCGCAAGCGATTACCCACCTCAGCC
 TCCCAAAGTGCTGGGATTACCGCTTGAGCCACCACCCGGCACATCTTCATTCTTTTT
 ATGTAGTAAAAAGTATAAGGCCACACATGGTTTATTTGAAGTATTTTATAATTTAAAAAA
 ATACAGAAGCAGGAAAACCAATTATAAGTTCAAGTGAGGGATGATGGTTGCTTGAACCAA
 AGGGTTGCATGTAGTAAGAAATTGTGATTTAAGATATATTTTAAAGTTATAAGTAGCAGG
 ATATTCTGATGGAGTTTGACTTTGGTTTTGGGCCAGGGAGTTTCAGATGCCTTTGAGAA
 ATGAATGAAGTAGAGAGAAAAATAAAGAAAAAACAGCCAGGCACAGTGGCTCACGCTGT
 AATCCCAGCGCTTTGGGAGGCTAAGGCAGGCAGATCACTTGAGACCAGCTTGGGCAACAT
 GGCAAAGCCCCATCTCTACAAAAACACAAAAATTAGCTGGGCATTGTGGCGCACACCTG
 TATTTCCATCTAGTCAGGAAGCTGAGATGGAAGAATTAATTGAGCCCACGAGTTCAAGGC
 TGCAGTGAGTCGTGATTGTGCCACTGCACTCCAGCCGGGGTACAGAGAAGAGACCTTGTCT
 CGAAAAGGAATCTGAAAACAATGGAACCATGCCTTCATAATTCTAGAAAGTTATTTTCAA
 CTGATAAATCTATATTCACCCAAATAATCAAGGGTGAAGGTAATAATACATTTTTAGA
 CAAGCAAAGACTCAGGGTTACCTCCATGTGCCCTTTTTAGGGAAGCTGTTGGAGAAAAAT
 ACTCCAGCAAATGAAGGAGTACACAAACCAGAGAATGACATGAATCCAGCAAATAGGAT
 CCAACACAGGCAATATCCAGCTATGGAGCTAGCTTTAAAAAGGAACAGTAAAAATATTA
 ATCGGTTAGCTGGGTGGAATGGCCCATGCCTGTAGTCCCAGCTACTCAGGAGGCTCAGCA
 GCAGGACGACTTGAGCCCAAGAGTTCAGACCAGCCTGGCCACCTTAGTGAGATCCCTTC
 TCTTAAAAATAATAACTTATTGCCAGATTTGGGGCATTGGAAGAAGTTCATTGAAGAT
 AAAGCAAAAGTAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

| | |
|-------------------------------|--|
| ACCN: | NM_000791 |
| 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). |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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: | <ol style="list-style-type: none">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_000791.3 , NP_000782.1 |
| RefSeq Size: | 3932 bp |
| RefSeq ORF: | 564 bp |
| 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 |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p> |