

Product datasheet for MC203752

Dhfr (NM_010049) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dhfr (NM_010049) Mouse Untagged Clone
Tag: Tag Free
Symbol: Dhfr
Synonyms: 8430436I03Rik; AA607882; AI662710; AW555094
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC005796
CGGCAATCCTAGCGTGAAGGCTGGTAGGATTTTATCCCCGCTGCCATCATGGTTCGACCATTGAACTGCA
TCGTCCCGGTGTCCCAAAATATGGGGATTGGCAAGAACGGAGACCTACCCTGGCCTCCGCTCAGGAACGA
GTTCAAGTACTTCCAAAGAATGACCACAACCTCTTCAGTGGAAAGGTAAACAGAATCTGGTATTATGGGT
AGGAAAACCTGGTTCTCCATTCTGAGAAGAATCGACCTTTAAAGGACAGAATTAATATAGTTCTCAGTA
GAGAACTCAAAGAACCACCACGAGGAGCTCATTTTCTTGCCAAAAGTTTGGATGATGCCTTAAGACTTAT
TGAACAACCGGAATTGGCAAGTAAAGTAGACATGGTTTGGATAGTCGGAGGCAGTTCTGTTTACCAGGAA
GCCATGAATCAACCAGGCCACCTCAGACTCTTTGTGACAAGGATCATGCAGGAATTTGAAAGTGACACGT
TTTTCCAGAAATTGATTTGGGGAAATATAAACTTCTCCAGAATACCCAGGCGTCTCTGAGGTCCA
GGAGGAAAAAGGCATCAAGTATAAGTTTGAAGTCTACGAGAAGAAAGACTAACAGGAAGATGCTTTCAAG
TTCTCTGCTCCCCTCCTAAAGCTATGCATTTTTATAAGACCATGGGACTTTTGTGGCTTTAGATCTATG
AGTAATATTTCTTTAGGGAGGGGTAGTTGGAAGAATTGTTTGTGTTTGTGATCCTGGGGATGGAACCTAA
GACCCAGTGCGTCTGAGCAAAATGCTATACTGCTGAGCCACCCCAACCCTAGCCCCTATATAAATCTAAA
CAATATGTTGTCATTTCCAGTAATCTAACAAGGTTATAGTAAAAGTGCCTTAAGAAATGCACTTGCTA
TAAAGGTCTCAGTGCCCCCTCCATGAGACCTCAAGTGGCTCCCCAGCATATGCACAGGGTACTGTGTGTA
CAAGAGACCCAGTGATGTAGAGCCCCTGGAGCATGAGCAGATGTGTGGGCTCATAAAAGTAGGAGCTAG
GCAGGTAAGTCCAAAGGGCAGAAACAGGTTTTAAACAGCAGAGCTGGAATCAGACTATAAAGAAAATTC
CATCAAAGTAGAGACTGGATTATTGTATGCACATCACACTGCAGCAAAGCTCTGCTCACTCAGACAGAA
AATCAGTAAATGGAGAACTCCATTGTGTTCCATGGAGACGAGCAGGTGGAAGATTATGTAAGATCTGA
AACACTGAAATTGTCTGTTCTCATCTTCAGTGAGATTCCAAAGGATAGTACAGTGACAGAACAAAGAATA
GGCACTCTCTACAAAAAAGAAAGAAAAAAGTAAAGTAAAGCAAGCATATAGCTACTGTTAAGAACTC
AGAGATAATGAATTGAGAATGGATACTGCTTGAATGAAAATTTAATAAGTTAGAAAATAAACTTTATAA
AAATAAAAAATGAGCATTAAAAAAGAAAAAAGAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_010049



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Insert Size:	564 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:	<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:	BC005796 , AAH05796
RefSeq Size:	1510 bp
RefSeq ORF:	564 bp
Locus ID:	13361
UniProt ID:	P00375
Cytogenetics:	13 47.64 cM
Gene Summary:	Key enzyme in folate metabolism. Contributes to the de novo mitochondrial thymidylate biosynthesis pathway (PubMed:25980602). Catalyzes an essential reaction for de novo glycine and purine synthesis, and for DNA precursor synthesis (PubMed:25980602). Binds its own mRNA.[UniProtKB/Swiss-Prot Function]