

Product datasheet for **MR208640**

Ftcd (NM_080845) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ftcd (NM_080845) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ftcd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208640 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCTCAGTTGGTGAATGTGTCCCACTTCTCAGAGGGGAACAACCAGGAGGTGATTGATGCCATCT
 CTCGAGCCATCTCCAGACCCCAGGCTGTGTGCTGTTGGACGTCGATGCCGGACCTCCACCAACCGCAC
 TGCTACACTTTCTGTTGGGCAGCCAGAGTGTGTGCTAGAGGGGGCCCTCCATGCTGCGCGTACGGCCTCA
 CAGCTCATCGACATGAGCAAGCACAAGGGTGAACACCTCGAATGGGCGCTCTGGATGTGTGTCCCTTCA
 TCCCGGTGAGGGGCGTCAGCATGGAAGAGTGTGTGCTCTGTGCCAAGGCATTTGGGCAGCGGCTGGCAGA
 GGAACCTAATGTACCAGTGTATCTCTATGGTGAAGCAGCTCAGACGCCAGTCTGTCAGACCTGCCAGCC
 ATCCGGCTGGAGAGTATGAGGCCCTGCCTGAGAAGCTCAAACAGGCCGAGTGGGTGCCAGACTTTGGCC
 CTAGCTCCTTTGCCAGTTGGGGTGTACTGTACGGGTGCACGGAAGTTCTCATTGCATTCAATAT
 CAACCTGCTAAGCACCAAGGAGCAGGCCACCGTATTGCTTTAACCTGCGGGAGCAGGGCCGAGGGAAA
 GACCAGCCTGGAGCTCTGAAAAAGTCCAGGGCATCGGTTGGTACCTGGAAGAGAAGAACCTGGCTCAGG
 TGTCACAAAACCTCCTGGACTTTGAGGTACAGCTCTGCACACAGTGTGGAGGAGGCCGAGAGAGGC
 TCAGGAGCTGAATCTCCAGTGGTGGGCTCGCAGCTGGTGGGCTGGTGCCTCTGAAGGCCTTACTGGAT
 GCCGCAGCCTTCTACTGTGACAAGGAGAAGCTGTTTGTCTGGAGGAGGAGCATCGGATACGGCTGGTGG
 TGAACCGGCTGGGCTGGATTGCTGGCACCTTCGACCCAAAGGAACGGATCATCGAGTACCTAGTCCC
 CGATAGTGGACGAGAACAGAGCCTGTTGGACACCTCACTGCGCGGTTTGTTCGGGAGGTGGGAGCCCGC
 TCTGCTGCCCCAGGAGGAGTTCTGTAGCAGCAGCGGTAGCAGCTCTGGTGCAGCCCTGGCTTCTATGG
 TGGCCAGATGACCTATGGCCGGCGCAGTTTGATCACTTGGATTCCACAATGCGACGCTGATCCCACC
 CTTCACGCAGCCTCTGCCAGCTGACTTCATTGGTGGATGCTGATGCCGGGCGTTTGTCTGCCTGTTTG
 GAGGCAATAAAGCTGCCAAGAACACGCCTGAAGAGAGAGACAGGCGTGCATGCGCTCTGCAGGAGGGGC
 TGAGACAGGCAGTCTGTGCCACTGAACTGGCCGAGACTGTGTCCCAGCTATGGCCAGCGCTGCAGGA
 GCTGGCCACTGTGGAACTGTCTGCTGTGCTGACCTGCAGGTGGCAGCCAAAGCCTTGAGACAGGT
 GTGTTTGGTGGTACTTCAACGTGCTCATCAACCTGAAGGACATGACGGATGATGATTTAAAGAGAAGA
 CACACCATCGAATCTCCAGCCTTCTGCAGGAAGCCAAGACTCAGGCTGCGCTGGTGTGGTAGCCTAGA
 AGCCCGAAAGGAG

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208640 protein sequence
 Red=Cloning site Green=Tags(s)

MSQLEVCVPNFSEGNQVEIDAISRASIQTPGCVLLDVDAGPSTNRTVYTFVGGQPECVVEGALHAARTAS
 QLIDMSKHKGEHPRMGALDVCPFIPVVRGVSMEECVLCAKAFGQRLAEELNVPVYLYGEEAQTSPRQTLPA
 IRAGEYEALPEKLRQAEWVPDFGPSSFVPSWGATVTGARKFLIAFNINLLSTKEQAHRIALNLRQGRGK
 DQPGRLKKVQIGWYLEEKLAQVSTNLLDFEVTALHTVFEEARREAEQELNLPVVGSQLVGLVPLKALLD
 AAIFYCDKEKLFVLEEEHRIQLVNRLLGLDSLAPFDPKERIIEYLVPDSGPEQSLDLSLRGFVREVGAR
 SAAPGGGSVAAAALGAALASMGQMTYGRRFQDHLDDSTMRRLIPPFHAASAQLTSLVDADARAFACL
 EAIKLPKNTPEERDRRACALQEGLRQAVAVPLKLAETVSQLWPALQELAHCGNLSCLSDLQVAKALETG
 VFGAYFNVLINLKDMDDDVFKEKTHHRISLLQEAQTQAALVLGSLEARKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_080845

ORF Size: 1626 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_080845.2](#)

RefSeq Size: 2710 bp

RefSeq ORF: 1626 bp

Locus ID: 14317

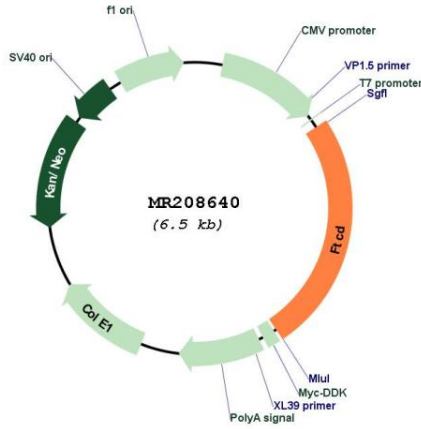
UniProt ID: [Q91XD4](#)

Cytogenetics: 10 39.25 cM

MW: 58.9 kDa

Gene Summary: Folate-dependent enzyme, that displays both transferase and deaminase activity. Serves to channel one-carbon units from formiminoglutamate to the folate pool (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208640