

## Product datasheet for **MG208640**

### **Ftcd (NM\_080845) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ftcd (NM_080845) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ftcd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208640 representing NM\_080845  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCTCAGTTGGTGAATGTGTCCCACTTCTCAGAGGGGAACAACCAGGAGGTGATTGATGCCATCT  
 CTCGAGCCATCTCCAGACCCCAGGCTGTGTGCTGTTGGACGTCGATGCCGGACCCTCCACCAACCGCAC  
 TGCTACACTTTCTGGGGCAGCCAGAGTGTGTGCTAGAGGGGGCCCTCCATGCTGCGCGTACGGCCTCA  
 CAGCTCATCGACATGAGCAAGCACAAGGGTGAACACCCTCGAATGGGCGCTCTGGATGTGTGTCCCTTCA  
 TCCCGGTGAGGGGCGTCAGCATGGAAGAGTGTGTGCTCTGTGCCAAGGCATTTGGGCAGCGGCTGGCAGA  
 GGAACCTAATGTACCAGTGTATCTCTATGGTGAAGCAGCTCAGACGCCAGTCTGTCAGACCCTGCCAGCC  
 ATCCGGGTGGAGAGTATGAGGCCCTGCCTGAGAAGCTCAAACAGGCCGAGTGGGTGCCAGACTTTGGCC  
 CTAGCTCCTTTGCCAGTTGGGTGCTACTGTCACGGGTGCACGGAAGTTCTCATTGCATTCAATAT  
 CAACCTGCTAAGCACCAAGGAGCAGGCCACCGTATTGCTTTAACCTGCGGGAGCAGGGCCGAGGGAAA  
 GACCAGCCTGGAGCTCTGAAAAAGTCCAGGGCATCGGTTGGTACCTGGAAGAGAAGAACCTGGCTCAGG  
 TGTCACAAAACCTCCTGGACTTTGAGGTCACAGCTCTGCACACAGTGTGGAGGAGGCCGAGAGAGGC  
 TCAGGAGCTGAATCTCCAGTGGTGGGCTCGCAGCTGGTGGGCTGGTGCCTCTGAAGGCCTTACTGGAT  
 GCCGCAGCCTTCTACTGTGACAAGGAGAAGCTGTTTGTCTGGAGGAGGAGCATCGGATACGGCTGGTGG  
 TGAACCGGCTGGGCTGGATTGCTGGCACCCCTTCGACCCAAAGGAACGGATCATCGAGTACCTAGTCCC  
 CGATAGTGGACGAGAACAGAGCCTGTTGGACACCTCACTGCGCGGTTTTGTTCCGGAGGTGGGAGCCCGC  
 TCTGCTGCCCCAGGAGGAGTTCTGTAGCAGCAGCGGTAGCAGCTCTGGTGCAGCCCTGGCTTCTATGG  
 TGGCCAGATGACCTATGGCCGGCCAGTTTGTATCACTTGGATTCCACAATGCGACGCTGATCCCACC  
 CTTCACGACGCTCTGCCAGCTGACTTCATTGGTGGATGCTGATGCCGGGCGTTTTGCTGCCTGTTTG  
 GAGGCAATAAAGCTGCCAAGAACACGCTGAAGAGAGAGACAGGCGTGCATGCGCTCTGCAGGAGGGC  
 TGAGACAGGCACTCGCTGTGCCACTGAACTGGCCGAGACTGTGTCCCAGCTATGGCCAGCGCTGCAGGA  
 GCTGGCCACTGTGGAACTGTCTGCTGTGCTGACCTGCAGGTGGCAGCCAAAGCCTTGAGACAGGT  
 GTGTTTGGTGGTACTTCAACGTGCTCATCAACCTGAAGGACATGACGGATGATGATTTAAAGAGAAGA  
 CACACCATCGAATCTCCAGCCTTCTGCAGGAAGCAAGACTCAGGCTGCGCTGGTGTGGTAGCCTAGA  
 AGCCCGAAAGGAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208640 representing NM\_080845  
 Red=Cloning site Green=Tags(s)

MSQLVECVPNFSEGNNQEVIDAISRASIQTPGCVLLDVDAGPSTNRTVYTFVGGQPECVVEGALHAARTAS  
 QLIDMSKHKGEHPRMGALDVCPFIPVVRGVSMEECVLCAKAFGQRLAEELNVPVYLYGEEAQTSPRQTLPA  
 IRAGEYEALPEKLKQAEWVPDFGPSSFVPSWGATVTGARKFLIAFNINLLSTKEQAHRIALNLRQGRGK  
 DQPGRLKKVQGIWYLEEKNLQVSTNLLDFEVTALHTVFEEARREAQELNLPVVGSQLVGLVPLKALLD  
 AAAYCCKEKLFLVEEHRIRLVNRLGLDSLAPFDPKERIEYLVPDSGPEQSLLDTSRGLFVREVGAR  
 SAAPGGGSVAAAVALGAALASMGQMTYGRQFDHLDSTMRRLLPPFHAASAQLTSLVDADARFAACL  
 EAIKLPKNTPEERDRRACALQEGLRQAVAVPLKLAETVSQWLPALQELAHCGNLSCLSDLQVAKALETG  
 VFGAYFNVLINLKDMDDDVFKEKTHHRISLLQEAQTQAALVLSLEARKE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



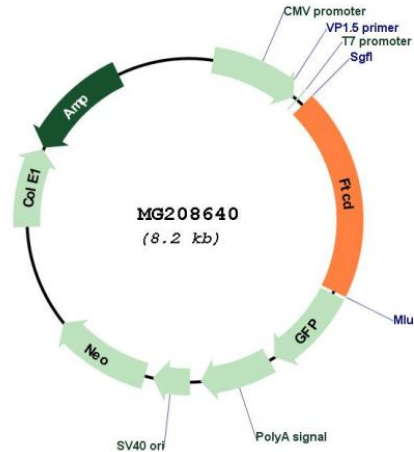
```

          Kozac
          Consensus
          SgfI  AscI
      EcoRI   BamHI KpnI  RBS
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

      HindIII  NheI  RsrII  MluI      NotI  XhoI      GFP Tag
CAAGCTTAAGCTAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC GAG  ATG GAG AGC GAC ---
                                   T  R  T  R  P  L  E      M  E  S  D  -  -  -

          PmeI  FseI
--- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
- - - E E R V Stop
    
```

Plasmid Map:



<b>ACCN:</b>	NM_080845
<b>ORF Size:</b>	1623 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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:** 1908 bp

**RefSeq ORF:** 1626 bp

**Locus ID:** 14317

**UniProt ID:** [Q91XD4](#)

**Cytogenetics:** 10 39.25 cM

**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]