

Product datasheet for **SC308351**

FTCD (NM_206965) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FTCD (NM_206965) Human Untagged Clone
Tag:	Tag Free
Symbol:	FTCD
Synonyms:	LCHC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC308351 representing NM_206965.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGTCCAGCTGGTGAATGCGTCCCAACTTTTCGGAGGGGAAGAACCAGGAGGTGATCGACGCCATC
TCTGGAGCCATCACACAGACCCCGGGCTGCGTGTGGATGTGGACGCAGGCCCTCCACCAACCGC
ACCGTGTACACCTTCGTGGGGCCGCGGAGTGCCTGGTGGAGGGGCCCTCAACGCTGCCGGGTAGCT
TCCCGACTTATCGACATGAGCAGCACCAAGGAGAGCACCCCGCATGGGGGCCCTAGACGTCTGCCCC
TTCATCCCGTGAGGGCGTCAGCGTGGATGAGTGTGTCTGCGCCAGGCCTTTGGCCAGAGGCTG
GCAGAGGAGCTGGACGTGCCAGTTACCTGTACGGCGAGGCAGCCAGGATGGACAGTCCGCGGACCTG
CCGGCCATCCGGGCCGGGAGTACGAGGCCCTCCCTAAGAAGCTCCAGCAGGCCGACTGGGCGCCGAC
TTTGGTCCAGCTCCTTTGTCGCCAGTTGGGGGCCACGGCCACGGGGCGAGGAAGTTCCTCATTGCT
TTTAACATCAACCTGCTCGGCACAAAGGAGCAAGCCACCGCATCGCGCTCAACCTCGGGGAGCAGGGC
CGCGGGAAGGACCAGCCAGGACGTCTGAAGAAAGTTTCAAGGCATTGGCTGGTACCTGGATGAGAAGAC
CTGGCTCAGGTGTCCACCAATCTTCTGGACTTTGAGGTACGGCACTGCACACGCTACGAGGAGACC
TGCCGAGAAGCACAGGAGCTGAGCCTCCAGTGGTGGGCTCACAGCTGGTGGGCCTGGTGCCCTGAAG
GCTCTGCTGGATGCGGCCGCTTCTACTGCGAGAAGGAGAACCTTTCATCCTGGAGGAGGAGCAGCGG
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GAGGTGGTGGCCGCTCTGCGGCCCCGGGGCGGCTCGGTGGCGGGCGCCGCTGCGGCCATGGGTGCG
GCGCTGGGCTCCATGGTGGCCTCATGACCTACGGCGGGCCCAATTCCAGTCCCTGGACACGACGATG
CGGCGCTGATCCCGCCCTTCGCGGAGGTTTCGGCCAAGCTAACACGCTGGTGGATGCCGACCCGAG
GCCTTACCGCCCTACCTGGAAGCAATGAGGCTCCCAAGAACACACCTGAGGAAAAGGACAGGCGCACG
GCGGCCCTACAGGAGGCTGAGGCGGGCAGTCTCTGTGCCGCTGACGCTGGCGGAGACGGTGGCCTCG
CTGTGGCCGCGCCTGCAGGAAGTGGCCCGGTGGGAACCTGGCCTGCCGCTCAGACCTCCAGGTGGCG
GCCAAAGCCCTGGAGATGGGCGTGTGGCGCATATTTCAACGTGCTCATCAACCTGAGGGACATCACA
GACGAGGCATTTAAGGACCAGATCCACCATCGTGTTCAGCCTCCTGCAGGAAGCAAGACCCAGGCT
GACTGGTGTGGACTGCTTGGAGACCCGGCAGGAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
  
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Restriction Sites: Sgfl-Mlul

Plasmid Map: □

ACCN: NM_206965

Insert Size: 1626 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).

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:	<u>NM_206965.1</u>
RefSeq Size:	1884 bp
RefSeq ORF:	1626 bp
Locus ID:	10841
UniProt ID:	<u>O95954</u>
Cytogenetics:	21q22.3
Protein Pathways:	Histidine metabolism, Metabolic pathways, One carbon pool by folate
MW:	58.9 kDa
Gene Summary:	<p>The protein encoded by this gene is a bifunctional enzyme that channels 1-carbon units from formiminoglutamate, a metabolite of the histidine degradation pathway, to the folate pool. Mutations in this gene are associated with glutamate formiminotransferase deficiency. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Dec 2009]</p> <p>Transcript Variant: This variant (A) represents the predominant transcript. Variants A and B encode the same protein (isoform A).</p>