

Product datasheet for **RG220581**

FTCD (NM_206965) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FTCD (NM_206965) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FTCD
Synonyms:	LCHC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220581 representing NM_206965
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCCAGCTGGTGAATGCGTCCCCAACTTTTCGGAGGGGAAGAACCAGGAGGTGATCGACGCCATCT
 CTGGAGCCATCACACAGACCCCGGGCTGCGTGTCTGCTGGATGTGGACGCAGGCCCTCCACCAACCGCAC
 CGTGTACACCTTCGTGGGGCCGCGGAGTGCCTGGTGGAGGGGGCCCTCAACGCTGCCCGGGTAGCTTCC
 CGACTTATCGACATGAGCAGGCACCAAGGAGAGCACCCCGCATGGGGGGCCCTAGACGTCTGCCCTTCA
 TCCCCGTGAGGGGCGTCAGCGTGGATGAGTGTGTGCTCTGCGCCAGGCCCTTGGCCAGAGGCTGGCAGA
 GGAGCTGGACGTGCCAGTTTACCTGTACGGCGAGGCAGCCAGGATGGACAGTCCCGGACCTGCCGGCC
 ATCCGGGCGGGGAGTACGAGGCCCTCCCTAAGAACTCCAGCAGGCCGACTGGGCGCCGACTTTGGTC
 CCAGCTCCTTTGCCAGTTGGGGGCCACGGCCACGGGGCGAGGAAGTTCTCATTGCTTTTAAAT
 CAACCTGCTCGGCACAAAGGAGCAAGCCACCGCATCGCGCTCAACCTGCGGGAGCAGGGCCGCGGGAAG
 GACCAGCCAGGACGTCTGAAGAAAGTTCAGGGCATTGGCTGGTACCTGGATGAGAAGAACCTGGCTCAGG
 TGTCCACCAATCTTCTGGACTTTGAGGTACGGCACTGCACACGGTCTACGAGGAGACCTGCCGAGAAGC
 ACAGGAGCTGAGCCTCCCAGTGGTGGGCTCACAGCTGGTGGGCTGGTGGCCCTGAAGGCTCTGCTGGAT
 GCGGCCGCTTCTACTGCGAGAAGGAGAACCTTTCATCTGGAGGAGGAGCAGCGGATCAGGCTGGTGG
 TGAGCCGGCTGGGCTGGACTCCCTGTGCCCTTCAGCCCTAAGGAGCGGATCATCGAGTACCTGGTCCC
 TGAGCGCGGGCTGAGCGAGGCCGTCGGCAGCAAGTCCCTGCGCGCCTTCGTGGGGGAGGTGGGTGCCCGC
 TCTGCGGCCCGGGGGCGGCTCGGTGGCGGGCCGCTGCGGCCATGGGTGCGGCGCTGGGCTCCATGG
 TGGGCTCATGACCTACGGGCGGGCCAAATCCAGTCCCTGGACACGACGATGCGGCGCCTGATCCCAGC
 CTTCCGCGAGGCTTCGGCCAAGCTAACACGCTGGTGGATGCCGACGCGGAGGCCCTCACCGCTACCTG
 GAAGCAATGAGGCTCCCCAAGAACACACCTGAGGAAAAGGACAGGCGCAGGGCGGCCCTACAGGAGGTC
 TGAGGCGGGCAGTCTCTGTGCCGCTGACGCTGGCGGAGACGGTGGCTCGCTGTGGCCGGCCCTGCAGGA
 ACTGGCCCGGTGTGGAACTGGCTGCCGTCAGACCTCCAGGTGGCGGCAAAGCCCTGGAGATGGGC
 GTGTTTGGCGCATATTTCAACGTGCTCATCAACCTGAGGGACATCACAGACGAGGCATTTAAGGACCAGA
 TCCACCATCGTGTTCAGCCTCTGCAGGAAGCAAGACCCAGGCTGCACTGGTGTGACTGCTTGA
 GACCCGGCAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220581 representing NM_206965
 Red=Cloning site Green=Tags(s)

MSQVLCVVPNFSEGNQVEVIDAISGAITQTPGCVLLDVIDAGPSTNRTVYTFVGPPECVVEGALNAARVAS
 RLIDMSRHQGEHPRMGALDVCPFIPVIRGVSVDECVLCAQAFGQRLAEELDVPVYLYGEAARMDSRRTLPA
 IRAGEYEALPKKLQQADWAPDFGPSSFVPSWGATATGARKFLIAFNINLLGTKEQAHRIALNLRQGRGK
 DQPGRLKKVQIGWYLDEKNLAQVSTNLLDFEVTALHTVYEETCREAQELSLPVVGSQVLVPLKALLD
 AAIFYCEKENLFIIEEQRIQLVVSRLGLDSLCPFSPKERIEYLVPERGPERGLGSKSLRAFVGEVGAR
 SAAPGGGSVAAAAAMGAALGSMVGLMTYGRRFQSLDTTMRRLIPPFREASAKLTTLVDADAEAFAYL
 EAMRLPKNTPEEKDRRTAALQEGLRRAVSVPLTLAETVASLWPALQELARCGNLACRSDLQVAAKALEMG
 VFGAYFNVLINLRDITDEAFKQIHRVSSLLQEAKTQAALVLDCLETRQE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_206965

ORF Size: 1623 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_206965.2](#)

RefSeq Size: 1884 bp

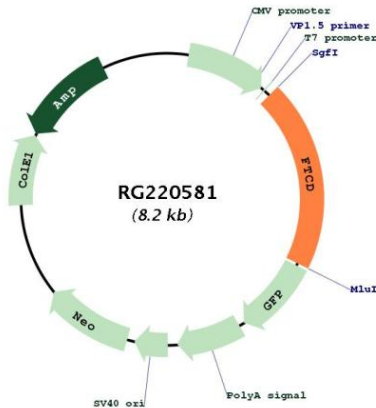
RefSeq ORF: 1626 bp

Locus ID: 10841

UniProt ID: [O95954](#)

Cytogenetics:	21q22.3
Protein Pathways:	Histidine metabolism, Metabolic pathways, One carbon pool by folate
Gene Summary:	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]

Product images:



Circular map for RG220581