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Product datasheet for SC202671

FH (NM_000143) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	FH (NM_000143) Human 3' UTR Clone
Symbol:	FH
Synonyms:	FMRD; HLRCC; HsFH; LRCC; MCL; MCUL1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_000143
Insert Size:	255 bp
Insert Sequence:	>SC202671 3'UTR clone of NM_000143 The sequence shown below is from the reference sequence of NM_000143. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC AAACCTAAGGACATGCTGGGTCCAAAGTGATTTACATAAATTTATAATGAAAATAAACATGTATAAAAT TTAAAAAAACAGACTCCCATTTCTTAAAAACGGATAAGTTTGAAAGGAAACTGCTATTGAACTTAAGCA TCTCTAGCAGAGCAATTTGATCAGTATATAAAACCCTAGGATGTGCTAGGTCTAAGATGGATTAAACAA GTATAAAATAAAATACATTTATAAAATAAAAAGGAAAACAGACTTAAA ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_000143.4

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Summary: The protein encoded by this gene is an enzymatic component of the tricarboxylic acid (TCA) cycle, or Krebs cycle, and catalyzes the formation of L-malate from fumarate. It exists in both a cytosolic form and an N-terminal extended form, differing only in the translation start site used. The N-terminal extended form is targeted to the mitochondrion, where the removal of the extension generates the same form as in the cytoplasm. It is similar to some thermostable class II fumarases and functions as a homotetramer. Mutations in this gene can cause fumarase deficiency and lead to progressive encephalopathy. [provided by RefSeq, Jul 2008]

Locus ID: 2271

MW: 10