

## Product datasheet for **SC202100**

### **MLH1 (NM\_000249) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	MLH1 (NM_000249) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	MLH1
Synonyms:	COCA2; FCC2; hMLH1; HNPCC; HNPCC2; MMRCS1
ACCN:	NM_000249
Insert Size:	223 bp
Insert Sequence:	>SC202100 3'UTR clone of NM_000249 The sequence shown below is from the reference sequence of NM_000249. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site  GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC GATCTATACAAAGTCTTTGAGAGGTGTAAATATGGTTATTTATGCACTGTGGGATGTGTTCTTCTTTC TCTGTATCCGATACAAAGTGTGTATCAAAGTGTGATATACAAAGTGTACCAACATAAGTGTGGTAG CACTTAAGACTTATACTTGCCTTCTGATAGTATTCCCTTATACACAGTGGATTGATTATAAATAAATAG ATGTGTCTTAACATAA ACGCGTAAGCGGCCGCGCATCTAGATTGGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
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:	<u><a href="#">NM_000249.4</a></u>



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**Summary:**

The protein encoded by this gene can heterodimerize with mismatch repair endonuclease PMS2 to form MutL alpha, part of the DNA mismatch repair system. When MutL alpha is bound by MutS beta and some accessory proteins, the PMS2 subunit of MutL alpha introduces a single-strand break near DNA mismatches, providing an entry point for exonuclease degradation. The encoded protein is also involved in DNA damage signaling and can heterodimerize with DNA mismatch repair protein MLH3 to form MutL gamma, which is involved in meiosis. This gene was identified as a locus frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). [provided by RefSeq, Aug 2017]

**Locus ID:**

4292

**MW:**

9