

Product datasheet for **RC206059L4V**

MSH4 (NM_002440) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	MSH4 (NM_002440) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MSH4
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_002440
ORF Size:	2808 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC206059).
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.
RefSeq:	NM_002440.2
RefSeq Size:	3293 bp
RefSeq ORF:	2811 bp
Locus ID:	4438
UniProt ID:	O15457
Cytogenetics:	1p31.1
Protein Families:	Druggable Genome
MW:	104.7 kDa


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Gene Summary:

This gene encodes a member of the DNA mismatch repair mutS family. This member is a meiosis-specific protein that is not involved in DNA mismatch correction, but is required for reciprocal recombination and proper segregation of homologous chromosomes at meiosis I. This protein and MSH5 form a heterodimer which binds uniquely to a Holliday Junction and its developmental progenitor, thus provoking ADP-ATP exchange, and stabilizing the interaction between parental chromosomes during meiosis double-stranded break repair. [provided by RefSeq, Aug 2011]