

## Product datasheet for RC206059L4

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## MSH4 (NM\_002440) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type: Expression Plasmids** 

**Product Name:** MSH4 (NM\_002440) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: MSH4

**Mammalian Cell** Puromycin

Selection:

Vector:

pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

**ORF Nucleotide** 

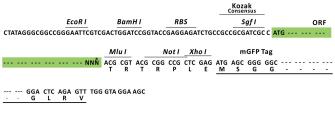
Sequence:

The ORF insert of this clone is exactly the same as(RC206059).

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





\* The last codon before the Stop codon of the ORF.

ACCN: NM\_002440 **ORF Size:** 2808 bp





## MSH4 (NM\_002440) Human Tagged Lenti ORF Clone - RC206059L4

**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: <u>NM 002440.2</u>

 RefSeq Size:
 3293 bp

 RefSeq ORF:
 2811 bp

 Locus ID:
 4438

 UniProt ID:
 015457

Cytogenetics: 1p31.1

**Protein Families:** Druggable Genome

MW: 104.7 kDa

**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]