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Product datasheet for RC212391L1V

MSH3 (NM_002439) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	MSH3 (NM_002439) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MSH3
Synonyms:	DUP; FAP4; MRP1
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_002439
ORF Size:	3411 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC212391).
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_002439.2
RefSeq Size:	4645 bp
RefSeq ORF:	3414 bp
Locus ID:	4437
UniProt ID:	P20585
Cytogenetics:	5q14.1
Domains:	MutS_V, MutS_I, MutS_III, MutS_II
Protein Families:	Druggable Genome, Stem cell - Pluripotency

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Protein Pathways: Colorectal cancer, Mismatch repair, Pathways in cancer

MW: 127.2 kDa

Gene Summary: The protein encoded by this gene forms a heterodimer with MSH2 to form MutS beta, part of the post-replicative DNA mismatch repair system. MutS beta initiates mismatch repair by binding to a mismatch and then forming a complex with MutL alpha heterodimer. This gene contains a polymorphic 9 bp tandem repeat sequence in the first exon. The repeat is present 6 times in the reference genome sequence and 3-7 repeats have been reported. Defects in this gene are a cause of susceptibility to endometrial cancer. [provided by RefSeq, Mar 2011]