

Product datasheet for **MR226209L3V**

Msh5 (NM_013600) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Msh5 (NM_013600) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Msh5
Synonyms:	Mut5
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_013600
ORF Size:	2502 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR226209).
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_013600.2 , NP_038628.2
RefSeq Size:	2888 bp
RefSeq ORF:	2502 bp
Locus ID:	17687
UniProt ID:	Q9QUM7
Cytogenetics:	17 18.57 cM



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Gene Summary:

This gene encodes a member of the MutS family of proteins that play critical roles in DNA mismatch repair and meiotic homologous recombination processes. Mice lacking the encoded protein are viable but sterile, with severe defects in spermatogenesis in males and complete loss of ovarian structures in females. Mutations in a similar gene in humans have been shown to cause common variable immune deficiency (CVID) and immunoglobulin A deficiency. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2015]