Product datasheet for MR218117L3V

Msh3 (NM_010829) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Msh3 (NM_010829) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Msh3
Synonyms:	D13Em1; Rep-3; Rep3
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_010829
ORF Size:	3285 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR218117).
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_010829.2, NP_034959.2
RefSeq Size:	3945 bp
RefSeq ORF:	3288 bp
Locus ID:	17686
UniProt ID:	P13705
Cytogenetics:	13 47.63 cM

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Gene Summary: Component of the post-replicative DNA mismatch repair system (MMR). Heterodimerizes with MSH2 to form MutS beta which binds to DNA mismatches thereby initiating DNA repair. When bound, the MutS beta heterodimer bends the DNA helix and shields approximately 20 base pairs. MutS beta recognizes large insertion-deletion loops (IDL) up to 13 nucleotides long. After mismatch binding, forms a ternary complex with the MutL alpha heterodimer, which is thought to be responsible for directing the downstream MMR events, including strand discrimination, excision, and resynthesis (By similarity).[UniProtKB/Swiss-Prot Function]