

Product datasheet for **MR220802L4V**

Fancd2 (NM_001033244) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Fancd2 (NM_001033244) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Fancd2
Synonyms:	241015007Rik; AU015151; BB137857; FA-D2; FA4; FACD; FAD; FANCD
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001033244
ORF Size:	4350 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR220802).
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_001033244.3 , NP_001028416.2
RefSeq Size:	4780 bp
RefSeq ORF:	4353 bp
Locus ID:	211651
UniProt ID:	Q80V62
Cytogenetics:	6 E3



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Gene Summary:

Required for maintenance of chromosomal stability. Promotes accurate and efficient pairing of homologs during meiosis. Involved in the repair of DNA double-strand breaks, both by homologous recombination and single-strand annealing. May participate in S phase and G2 phase checkpoint activation upon DNA damage. Plays a role in preventing breakage and loss of missegregating chromatin at the end of cell division, particularly after replication stress (By similarity). Promotes BRCA2/FANCD1 loading onto damaged chromatin. May also be involved in B-cell immunoglobulin isotype switching.[UniProtKB/Swiss-Prot Function]