

Product datasheet for **MR223996L4V**

Xrcc2 (NM_020570) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Xrcc2 (NM_020570) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Xrcc2
Synonyms:	4921524O04Rik; 8030409M04Rik; RAD51; RecA
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_020570
ORF Size:	834 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR223996).
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_020570.2 , NP_065595.2
RefSeq Size:	3230 bp
RefSeq ORF:	837 bp
Locus ID:	57434
UniProt ID:	Q9CX47
Cytogenetics:	5 B1



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Gene Summary:

Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA, thought to repair chromosomal fragmentation, translocations and deletions. Part of the Rad21 paralog protein complex BCDX2 which acts in the BRCA1-BRCA2-dependent HR pathway. Upon DNA damage, BCDX2 acts downstream of BRCA2 recruitment and upstream of RAD51 recruitment. BCDX2 binds predominantly to the intersection of the four duplex arms of the Holliday junction and to junction of replication forks. The BCDX2 complex was originally reported to bind single-stranded DNA, single-stranded gaps in duplex DNA and specifically to nicks in duplex DNA (By similarity).[UniProtKB/Swiss-Prot Function]