

## Product datasheet for **RC204952L4V**

### **XRCC1 (NM\_006297) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	XRCC1 (NM_006297) Human Tagged ORF Clone Lentiviral Particle
Symbol:	XRCC1
Synonyms:	RCC; SCAR26
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_006297
ORF Size:	1899 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC204952).
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. <a href="#">More info</a>
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:	<a href="#">NM_006297.1</a>
RefSeq Size:	2102 bp
RefSeq ORF:	1902 bp
Locus ID:	7515
UniProt ID:	<a href="#">P18887</a>
Cytogenetics:	19q13.31
Domains:	BRCT, XRCC1_N
Protein Families:	Druggable Genome



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**Protein Pathways:** Base excision repair

**MW:** 69.5 kDa

**Gene Summary:** The protein encoded by this gene is involved in the efficient repair of DNA single-strand breaks formed by exposure to ionizing radiation and alkylating agents. This protein interacts with DNA ligase III, polymerase beta and poly (ADP-ribose) polymerase to participate in the base excision repair pathway. It may play a role in DNA processing during meiosis and recombination in germ cells. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity. [provided by RefSeq, Jul 2008]