

Product datasheet for **MR204755L4V**

Xrcc4 (NM_028012) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

| | |
|----------------------------------|-----------------------------------|
| Product Type: | Lentiviral Particles |
| Symbol: | Xrcc4 |
| Synonyms: | 2310057B22Rik; AW413319; AW545101 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_028012 |
| ORF Size: | 978 bp |

ORF Nucleotide Sequence: The ORF insert of this clone is exactly the same as(MR204755).

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_028012.1](#), [NP_082288.1](#)

RefSeq Size: 1557 bp

RefSeq ORF: 981 bp

Locus ID: 108138

UniProt ID: [Q924T3](#)

Cytogenetics: 13 C3



Gene Summary:

Involved in DNA nonhomologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. Binds to DNA and to DNA ligase IV (LIG4). The LIG4-XRCC4 complex is responsible for the NHEJ ligation step, and XRCC4 enhances the joining activity of LIG4. Binding of the LIG4-XRCC4 complex to DNA ends is dependent on the assembly of the DNA-dependent protein kinase complex DNA-PK to these DNA ends (By similarity).[UniProtKB/Swiss-Prot Function]