

## Product datasheet for **KN313866BN**

### Primpol Mouse Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
Donor DNA:	mBFP-Neo
Symbol:	Primpol
Locus ID:	408022
Components:	<b>KN313866G1</b> , Primpol gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN313866G2</b> , Primpol gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN313866BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector
Disclaimer:	These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.
RefSeq:	<a href="#">NM_001001184</a> , <a href="#">NR_151680</a>
UniProt ID:	<a href="#">Q6P1E7</a>
Synonyms:	BC065112; Ccdc111
Summary:	DNA primase and DNA polymerase able to initiate de novo DNA synthesis using dNTPs. Shows a high capacity to tolerate DNA damage lesions such as 8oxoG and abasic sites in DNA. Involved in translesion synthesis via its primase activity by mediating uninterrupted fork progression after programmed or damage-induced fork arrest and by reinitiating DNA synthesis after dNTP depletion. Required for mitochondrial DNA (mtDNA) synthesis, suggesting it may be involved in DNA tolerance during the replication of mitochondrial DNA. Has non-overlapping function with POLH (By similarity).[UniProtKB/Swiss-Prot Function]



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## Product images:

