

## Product datasheet for KN219020LP

#### OriGene Technologies, Inc.

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### **CSB (ERCC6) Human Gene Knockout Kit (CRISPR)**

#### **Product data:**

**Product Type:** Knockout Kits (CRISPR)

**Format:** 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

**Donor DNA:** Luciferase-Puro

Symbol: CSB Locus ID: 2074

**Components:** KN219020G1, CSB gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN219020G2, CSB gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN219020LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

GE100003, 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: <u>NM 000124, NM 001277058, NM 001277059, NM 001346440</u>

UniProt ID: Q03468

Synonyms: ARMD5; CKN2; COFS; COFS1; CSB; RAD26; UVSS1

**Summary:** This gene encodes a DNA-binding protein that is important in transcription-coupled excision

repair. The encoded protein has ATP-stimulated ATPase activity, interacts with several transcription and excision repair proteins, and may promote complex formation at DNA repair sites. Mutations in this gene are associated with Cockayne syndrome type B and cerebrooculofacioskeletal syndrome 1. Alternative splicing occurs between a splice site from exon 5 of this gene to the 3' splice site upstream of the open reading frame (ORF) of the adjacent gene, piggyback-derived-3 (GeneID:267004), which activates the alternative polyadenylation site downstream of the piggyback-derived-3 ORF. The resulting transcripts encode a fusion protein that shares sequence with the product of each individual gene.

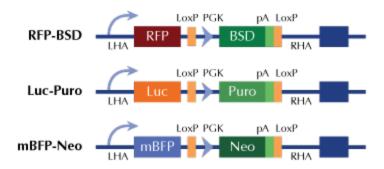
[provided by RefSeg, Mar 2016]





# **Product images:**

### Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter