

Product datasheet for **KN219020**

CSB (ERCC6) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	CSB
Locus ID:	2074
Components:	<p>KN219020G1, CSB gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGTGGGGGATTCCCTCATT</p> <p>KN219020G2, CSB gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCTCCTGAGTTTGACTTGAG</p> <p>KN219020D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

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TCTATCTCC CGCTTTGGCC TCCCAAAGTG CTGGGATTAC AGGACTGAGC CACGTGCCTG GCCTAATTAA
TCTTCTGAGC TTCTGATTTG TTCAAAGCTC CTATTTACTG GATAGGTATT CAGCCTAGGA GTTCTAGTC
TCAGATTCAC ACAGAAGCTC TTTCTAACA TCGCTGTTC TATGCATTAC AGTTGATCTT GCCACTATAT
TATAAATCAT TTGTGCATA ATGAAATGAA GATGCTAACT TGGAAAACAG CAGCCAAATG ACTTCAGCTG
TTTTGAAGAA TATTCCATGG CCATCACCCC AGGATTTTGG TGGCTGGCTT TCTTAGCTGG CTGCCATAAT
GTCCTTTGTT GATGATACTG CATTTCCTTT TCTGGTTAAT TTTTCTTATT TATTATCAGA ACTCAAGAAG
ATACGTTGTC CCTTTTTAGT AAATTAATAC TTGAAAACCTT GAATTTATGT AGTTGGAAGA TTATTACTTG
ATCTTTTGGAG AAATCAGTCT GCTCTAATTA TAAAATATTT AAGAACTACA ATGAATCCTA TATAACGAAA
AGGCTTATAA ATTTTTTCC TTTTAGGTAG TCTGTAGAGA AAGACTGTTT ACAGAGTCAA CCTGTGAGTA
ATAATGAAGA AATGGCAATC AAGCAAGAAA GTGGTGGTGA TGGGGAGGTG GAGGAGTACC TCTCCTTTG
TTCTGTGGGT GACGGGCTGT CCACCTCTGC TGTGGGGTGC GCATCAGCAG CTCCGAGGAG AGGGCCAGCC
CTGCTGCACA TCGACCGACA TCAGATCCAG GCAGTAGAGC CTAGCGCCCA GGCCCTTGAG CTGCAGGGTT
TGGGTGTGGA CGTCTATGAC CAGGACGTGC TGAACAGGG AGTGCTTACAG CAGGTGGACA ATGCCATCCA
TGAGGCCAGC CGTGCCCTCC AGCTCGTTGA CGTGGAGAAG GAGTATCGGT CGGTCCTGGA TGACCTCAGC
TGAGTGCAGC CCATCTTCTT CCTTTCAAAG TGGTGGTAAA ACATGACAGG GATATTCAGG TAATGGAAAG
CTCTAGTATT CCAGAAGTTT AGGAGATGTG TAGAACCTTT TATTTGGAGG ACAGAGTCAA TAAGGGCAGT
CCTCAACCTC ATCTTTGAGT CCCAGCCCTT CCCCTTAGGA GTGGCATTGT ACATGGTAGT TAGAGTCTCT
GTCCAGCTCG
```

GE100003, scramble sequence in pCas-Guide vector



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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:

[NM_000124](#), [NM_001277058](#), [NM_001277059](#), [NM_001346440](#)

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 RefSeq, Mar 2016]

Product images:
