

Product datasheet for **KN201958**

KRAS 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:	KRAS
Locus ID:	3845
Components:	<p>KN201958G1, KRAS gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTGAATTAGCTGTATCGTCA</p> <p>KN201958G2, KRAS gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAATATAAACTTGTGGTAGT</p> <p>KN201958D, 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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CAATCCAGCT TTATTTGACA CTCATTCTCT CAACTCTCAT CTGATTCTTA CTGTTAATAT TTATCCAAGA
GAACTACTGC CATGATGCTT TAAAAGTTTT TCTGTAGCTG TTGCATATTG ACTTCTAACA CTTAGAGGTG
GGGGTCCACT AGGAAAACCTG TAACAATAAG AGTGGAGATA GCTGTCAGCA ACTTTTGTGA GGGTGTGCTA
CAGGGTGTAG AGCACTGTGA AGTCTCTACA TGAGTGAAGT CATGATATGA TCCTTTGAGA GCCTTTAGCC
GCCGCAGAAC AGCAGTCTGG CTATTTAGAT AGAACAACCTT GATTTTAAGA TAAAAGAAC GTCTATGTAG
CATTATGCA TTTTCTTAA GCGTCGATGG AGGAGTTTGT AAATGAAGTA CAGTTCATTA CGATACACGT
CTGCAGTCAA CTGGAATTTT CATGATTGAA TTTTGTAAAG TATTTTGAAA TAATTTTCA TATAAAGGTG
AGTTTGTATT AAAAGGTA CTGGGAGTAT TTGATAGTGT ATTAACCTTA TGTGTGACAT GTTCTAATAT
AGTCACATTT TCATTATTTT TATTATAAGG CCTGCTGAAA AATCATTTTG TGGACGAATA TGATCCAACA
ATAGAGGTAA ATCTTGTTTT AATATGCATA TACTGGTGC AGGACCATTC TTTGATACAG ATAAAGGTTT
CTCTGACCAT TTTCATGAGT ACTTATTACA AGATAATTAT GCTGAAAGTT AAGTTATCTG AAATGTACCT
TGGGTTTCAA GTTATATGTA ACCATTAATA TGGGAACCTT ACTTTCCTTG GGAGTATGTC AGGGTCCATG
ATGTTCACTC TCTGTGCATT TTGATTGGAA GTGTATTCA GAGTTTCGTG AGAGGGTAGA AATTTGTATC
CTATCTGGAC CAAAAGACA ATCTTTTAT TGAACCTTT ATTTTATG GTTTCTGGT ATTGTGACAT
CATATGTAAG GGTAGATTT AATTGACTA GTGAAATATA ATTGTTTGT GGTGATTTT TTTAACTTC
ATCAGCAGTA TTTTCTATC TTCTTCTCAA CATTAGAGAA CCTACAACCTA CCGGATAAAT TTTACAAAAT
GAATTATTTG CCTAAGGTGT GGTATATATA AAGGTACTAT TACCAACTTT ACCTTTGCTT TGTTGTGATT
TTTAAATTTA

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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_004985](#), [NM_033360](#), [NM_001369786](#), [NM_001369787](#)

UniProt ID: [P01116](#)

Synonyms: C-K-RAS; c-Ki-ras2; CFC2; K-RAS2A; K-RAS2B; K-RAS4A; K-RAS4B; KI-RAS; KRAS1; KRAS2; NS; NS3; RALD

Summary: This gene, a Kirsten ras oncogene homolog from the mammalian ras gene family, encodes a protein that is a member of the small GTPase superfamily. A single amino acid substitution is responsible for an activating mutation. The transforming protein that results is implicated in various malignancies, including lung adenocarcinoma, mucinous adenoma, ductal carcinoma of the pancreas and colorectal carcinoma. Alternative splicing leads to variants encoding two isoforms that differ in the C-terminal region. [provided by RefSeq, Jul 2008]

Product images:

