

## Product datasheet for **KN213537RB**

### LIN28B Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	LIN28B
Locus ID:	389421
Components:	<p><b>KN213537G1</b>, LIN28B gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCGTGGGGCAACATGGCCGA</p> <p><b>KN213537G2</b>, LIN28B gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TAGAAAAGAAAATTAACCTT</p> <p><b>KN213537RBD</b>, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.</p> <p>Homologous arm and RFP-BSD sequences: pUC vector backbone in gray; <b>Left arm sequence in blue</b>; <b>RFP-BSD in green</b>; <b>Right arm in violet</b></p> <pre> AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCGGCG ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAATTTT AAAAGTGCTC ATCATTGGAA AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCCTG GTTGAGATCC AGTTTCGATGT AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTACCACGC GTTTCTGGGT GAGCAAAAAC AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT TTTCAATATT ATTGAAGCAT TTATCAGGT TATTGTCTCA TGAGCGGATA CATATTTGAA TGTATTTAGA AAAATAACA AATAGGGGTT CCGCGCAT TCCCCGAAA AGTGCCACCT GACGTCTAAG AAACCATTAT TATCATGACA TTAACCTATA AAAATAGGCG TATCACGAGG CCCTTTCGGG TCGCGGTTT CGGTGATGAC GGTAAAACC TCTGACACAT GCAGCTCCCG TTGACGGTCA CAGCTTGCT GTAAGCGGAT GCCGGGAGCA GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG CGGCATCAGA GCAGATTGTA CTGAGAGTGC ACCATAAAT TGTAACGTT AATATTTTGT TAAAATTCGC GTTAAATTTT TGTTAAATCA GCTCATTTTT TAACCAATAG GCCGAAATCG GCAAAATCCC TTATAATCA AAAGAATAGC CCGAGATAGG GTTGAGTGTT GTTCCAGTTT GGAACAAGAG TCCACTATTA AAGAACGTGG ACTCCAACGT CAAAGGGCGA AAAACCGTCT ATCAGGGCGA TGGCCCACTA CGTGAACCAT CACCAAATC AAGTTTTTTG GGGTCGAGGT GCCGTAAAGC ACTAAATCGG AACCCATAAG GGAGCCCCCG ATTTAGAGCT TGACGGGGAA AGCCGGCGAA CGTGCGGAGA AAGGAAGGGA AGAAAGCGAA AGGAGCGGGC GCTAGGGCGC TGGCAAGTGT AGCGGTACG CTGCGGTAA CCACCACACC CGCCGCGCTT AATGCGCCGC TACAGGGCGC GACTATGGT TGCTTTGACG TATGCGGTGT GAAATACCGC ACAGATCGCT AAGGAGAAAA TACCGCATCA GGCGCCATTC GCCATTCAGG CTGCGCAACT GTTGGGAAGG GCGATCGGTG CGGGCCTCTT CGCTATTACG CCAGCTGGCG AAAGGGGAT GTGCTGCAAG GCGATTAAGT TGGGTAACGC CAGGGTTTTT CCAGTCACGA CGTTGTAATA CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACAGG CTGTCGCCGT GCTCATTTGA </pre>



TAACTGCCCG TTATTCATGC GACACTGAAA TTAGCGTTCC AAGCAGGTTT ACTGCCATGG AATAGCTGAA  
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 GGCTTGTGTG TAAGGCACGC GTGTGCACAT ATATGACTGC CTTTTTTTCT AAATCTATGA TTCACAAGGT  
 CCCTCCATTG TGTTTAAGTA GAAGCACGAA ATCAGCATTG TGATTTATCC TAAAGAAGCG TTCCAAATTG  
 TCTTTAAGAT AACATGTTTG AGTTTTTCGT GTTCATTAT AAATTATTTT GATGTCAGCA TAGATGAAAT  
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 GAAAGCACAT TAGACCATGC GAGCTAAATT TGTGATCGCA CAAAATCAAG ATGTTAGATT GATGCAGAAG  
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 CCCCCTCCCC CTCTCCCACC CTTCTTAGAC CGTCCCCCCC TTCCCCTTTT ACCCCAATAC TGGGCATTAC  
 CTCCTAACCC CCCATCACGC AGTGGGGCTT TCTGCAAACC TATTGTTATA GATCTCCAAA AATGTTTTGT  
 ACCGCCACA CTGATTCACA ACTTGAAAAG CTTTCAGGGG GCTATTGTTT GAATTGTGTG AGTGTGATTA  
 AGCGCAGTTT CAGTTAGTGA TTCCAAGAAA ACTTTTATAC ACCTGCCCCC TCCCCATTG CACCCCACT  
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 TCTTGCTGCC GCCCGAAAGA GGAAGGGCTG GAAGAGGAAG GAGCTTGGCG TAATCATGGT CATAGCTGTT  
 TCCTGTGTGA AATTGTTATC CGCTCACAA TCCACACAAC ATACGAGCCG GAAGCATAAA GTGTAAAGCC  
 TGGGGTGCCCT AATGAGTGA CTAACCTACA TTAATTGCGT TGCCTCACT GCCCGCTTTC CAGTCGGGAA  
 ACCTGTCTGTG CCAGCTGCAT TAATGAATCG GCCAACGCGC GGGGAGAGGC GGTTCGCGTA TTGGGCGCTC  
 TTCCGCTTCC TCGCTCACTG ACTCGCTGCG CTCGGTCTGT CGGCTGCGGC GAGCGTATC AGCTCACTCA  
 AAGGCGGTAA TACGGTTATC CACAGAATCA GGGGATAACG CAGGAAAGAA CATGTGAGCA AAAGGCCAGC  
 AAAAGGCCAG GAACCGTAAA AAGGCCGCGT TGCTGGCGTT TTTCCATAGG CTCCGCCCCC CTGACGAGCA  
 TCACAAAAAT CGACGCTCAA GTCAGAGGTG GCGAAACCCG ACAGGACTAT AAAGATACCA GGCGTTTCCC  
 CCTGGAAGCT CCCTCGTGCG CTCTCCTGTT CCGACCCTGC CGCTTACCGG ATACCTGTCC GCCTTCTCCT  
 CTTGCGGAAG CGTGGCGCTT TCTCATAGCT CACGCTGTAG GTATCTCAGT TCGGTGTAGG TCGTTCGCTC  
 CAAGCTGGGC TGTGTGCACG AACCCCGCTG TCAGCCCGAC CGCTGCGCCT TATCCGTAA CTATCGTCTT  
 GAGTCCAACC CGGTAAGACA CGACTTATCG CCACTGGCAG CAGCCACTGG TAACAGGATT AGCAGAGCGA  
 GGTATGTAGG CGGTGCTACA GAGTCTTGA AGTGGTGGCC TAACTACGGC TACACTAGAA GAACAGTATT  
 TGGTATCTGC GCTCTGCTGA AGCCAGTTAC CTTCGAAAA AGAGTTGGTA GCTCTTGATC CGGCAAACAA  
 ACCACCGCTG GTAGCGGTGG TTTTTTTGTT TGCAAGCAGC AGATTACGCG CAGAAAAAAA GGATCTCAAG  
 AAGATCCTTT GATCTTTTCT ACGGGGTCTG ACCTCAGTG GAACGAAAAC TCACGTAAAG GGATTTTGGT  
 CATGAGATTA TCAAAAAGGA TCTTACCTA GATCCTTTTA AATTAATAAT GAAGTTTAA ATCAATCTAA  
 AGTATATATG AGTAAACTTG GTCTGACAGT TACCAATGCT TAATCAGTGA GGCACCTATC TCAGCGATCT  
 GTCTATTTTCG TTCATCCATA GTTGCCTGAC TCCCCTCGT GTAGATAACT ACGATACGGG AGGGCTTACC  
 ATCTGGCCCC AGTGTGCAA TGATACCGCG AGAACACGC TCACCGGCTC CAGATTTATC AGCAATAAAC  
 CAGCCAGCCG GAAGGGCCGA GCGCAGAAGT GGTCTGCAA CTTTATCCGC CTCCATCCAG TCTATTAATT  
 GTTGCCGGGA AGCTAGAGTA AGTAGTTCGC CAGTTAATAG TTTGCGCAAC GTTGTGCCA TTGCTACAGG  
 CATCGTGTG TCACGCTCGT CGTTTGGTAT GGCTTCATTC AGCTCCGTT CCAACGATC

**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:**

[NM\\_001004317](#)

**UniProt ID:**

[Q6ZN17](#)

**Synonyms:** CSDD2

**Summary:** The protein encoded by this gene belongs to the lin-28 family, which is characterized by the presence of a cold-shock domain and a pair of CCHC zinc finger domains. This gene is highly expressed in testis, fetal liver, placenta, and in primary human tumors and cancer cell lines. It is negatively regulated by microRNAs that target sites in the 3' UTR, and overexpression of this gene in primary tumors is linked to the repression of let-7 family of microRNAs and derepression of let-7 targets, which facilitates cellular transformation. [provided by RefSeq, Jun 2012]

**Product images:**

