

Product datasheet for **KN205163RB**

SEPTIN7 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:	SEPTIN7
Locus ID:	989
Components:	<p>KN205163G1, SEPTIN7 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCGAAGCTGAGACTCACCCA</p> <p>KN205163G2, SEPTIN7 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGCCGCTGACCCCAAGTCG</p> <p>KN205163RBD, 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; Left arm sequence in blue; RFP-BSD in green; Right arm in violet</p> <pre> AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCCGGC ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAATTTT AAAAGTGCTC ATCATTGGAA AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCCTG GTTGAGATCC AGTTTCGATGT AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTACCAGC 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 ACCATAAAAT 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 GGTTCGAGGT GCCGTAAAGC ACTAAATCGG AACCCCTAAG GGAGCCCCCG ATTTAGAGCT TGACGGGGAA AGCCGGCGAA CGTGCGGAGA AAGGAAGGGA AGAAAGCGAA AGGAGCGGGC GCTAGGGCGC TGGCAAGTGT AGCGGTACAG CTGCGGTAA CCACCACACC CGCCGCGCTT AATGCGCCGC TACAGGGCGC GACTATGGT TGCTTTGACG TATGCGGTGT GAAATACCGC ACAGATCGCT AAGGAGAAAA TACCGCATCA GGCGCCATC GCCATTCAGG CTGCGCAACT GTTGGGAAGG GCGATCGGTG CGGGCCTCTT CGCTATTACG CCAGCTGGCG AAAGGGGAT GTGCTGCAAG GCGATTAAGT TGGGTAACGC CAGGGTTTTT CCAGTACGA CGTTGTAATA CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACTGA CTGACTGACT GGAAGACACA </pre>



CCTTGCCTT ACGCCAATTC CGTAAGGAGG CGCTGAGGCC AACTGGCCGG CTCCCGCAGC TCCAAAACCT
 GACGTGAAAT TGC CGGGGAGC AGAGCTGACT GCGGCCATCT TTAATTCGGG CAAGACCCCA CCCTCGCACC
 CCACCCACTA GTCCTTTTCA GCGTTCCAG GATTTTCTCC AACAAATGTA ACGCGGTTAA CCTTAGAAGC
 AGTGTGAAG AACACGCAA AGAGGCCTGA GTATCCATGA CCTCAGTGGT GCGAAACCCG GCCAACTTAA
 ACATGGCGGC TAAACCCGAA CAGCAAAACG TTGCTGACGC CAATGAAGTC ATGCTCGAAA TGGAGCGAGG
 CGCGGAGCT GGGGAGGCGG TAATCTCGCG AGATGGAAGC CAGCCTCCGC TAGGCCCGGA AGCCTCGTCT
 GAGGGGGCGG GGGACGGAGG AGGGAGCGGG AGTCGAGCGA GAGCCTGTGG AGGAGTCCCG CTGCTGTAGC
 GTGCGTAAGC AAGGCAGCTA CGCCGGGCGG CTACGCTGCG GAATCGGCGT AGGCGCCTTT GGAGAATCGG
 CGGGCTGCGC TCCGCTGGGG CTGGTCTGCG AGGGGGGGAG GGGTCTGCGG CCGCTGGACC GAGCTAGGGA
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 GCGGCGGCAT TTCCTGTGCC GCGGCGGGCT GGCCCCCGC GCAGAGCCGC GGCTCCCGG GCCGGAGCAG
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 GGCCCGCCGG CTTCGCGGC CCCGCTTCTT CCTGTCCCG GCCGCATCC CGTCGGCAGA AGTCCCCTCG
 TGGGGCAGTG GGCTGGCTA GGAGGGTGGG GACGAGTGTG AACGCTCGGG CGAGGGTGTG GTGTGGGCCA
 ACCCGGGCGG GCGGCGGCGG GGAGGGAGGA AGAAGGATGC ACCAGGCTGA GGCTGTGGTG GAGGCGGCGG
 CGGCGGCTGC AGCCGCAGCT CCAATCACCG CGTCGCCTCC CCGCTCCTCC TCCC GCCTCTT CGGGGTTGCC
 TCTCTCCAGG CGCACGACAG TCTTACTGA CTGACTGACT GGAAAGAGGA AGGGCTGGAA GAGGAAGGAG
 CTTGGCGTAA TCATGGTCAT AGCTGTTTCC TGTGTGAAAT TGTTATCCGC TCACAATTCC ACACAACATA
 CGAGCCGGAA GCATAAAGTG TAAAGCCTGG GGTGCCTAAT GAGTGAGCTA ACTCACATTA ATTGCGTTGC
 GCTCACTGCC CGCTTCCAG TCGGGAACC TGTCGTGCCA GCTGCATTAA TGAATCGGCC AACGCGCGGG
 GAGAGGCGGT TTGCGTATTG GCGCTCTTC CGTTCCTCG CACTACTGACT CGCTCGCTG GGTCTGTCGG
 CTGCGGCGAG CGGTATCAG TCACTCAAAG GCGGTAATAC GGTATCCAC AGAATCAGGG GATAACGCAG
 GAAAGAACAT GTGAGCAAAA GGCCAGCAAA AGGCCAGGAA CCGTAAAAAG CCGCGGTTGC TGGCGTTTTT
 CCATAGGCTC CGCCCCCTG ACGAGCATCA CAAAAATCGA CGCTCAAGTC AGAGGTGGCG AAACCCGACA
 GGAATAAAA GATACCAGGC GTTCCCCCT GGAAGCTCC TCGTGCCTC TCCTGTTCCG ACCCTGCCGC
 TTACCGGATA CCTGTCCGCC TTTCTCCCTT CGGGAAGCGT GCGCTTTTCT CATAGCTCAC GCTGTAGGTA
 TCTCAGTTTC GTGTAGGTCG TTCGCTCAA GCTGGGCTGT GTGCACGAAC CCCCCGTTCA GCCCGACCGC
 TGCCTTAT CCGGTAATA TCGTCTTGG TCCAACCCGG TAAGACACGA CTTATCGCCA CTGGCAGCAG
 CCACTGGTAA CAGGATTAGC AGAGCGAGGT ATGTAGGCGG TGCTACAGAG TTCTTGAAGT GGTGGCCTAA
 CTACGGCTAC ACTAGAAGAA CAGTATTTGG TATCTGCGCT CTGCTGAAGC CAGTTACCTT CGGAAAAAGA
 GTTGGTAGCT CTTGATCCGG CAAACAAACC ACCGCTGGTA GCGGTGGTTT TTTTGTTCG AAGCAGCAGA
 TTACGCGCAG AAAAAAAGGA TCTCAAGAAG ATCCTTTGAT CTTTTCTACG GGGTCTGACG CTCAGTGGAA
 CGAAAACTCA CGTTAAGGGA TTTTGGTCAT GAGATTATCA AAAAGGATCT TCACCTAGAT CCTTTTAAAT
 TAAAAATGAA GTTTTAAATC AATCTAAAGT ATATATGAGT AAACCTGGTC TGACAGTTAC CAATGCTTAA
 TCAGTGAGGC ACCTATCTCA GCGATCTGTC TATTTCTGTT ATCCATAGTT GCCTGACTCC CCGTCGTGTA
 GATAACTACG ATACGGGAGG GCTTACCATC TGGCCCCAGT GCTGCAATGA TACCGCAGGA ACCACGCTCA
 CCGGCTCCAG ATTTATCAGC AATAAACCAG CCAGCCGGAA GGGCCGAGCG CAGAAGTGGT CCTGCAACTT
 TATCCGCCTC CATCCAGTCT ATTAATTGTT GCCGGGAAGC TAGAGTAAGT AGTTCCGCCAG TTAATAGTTT
 GCGCAACGTT GTTGCCATTG CTACAGGCAT CGTGGTGTCA CGCTCGTCGT TTGGTATGTC TTCATTACGC
 TCCGGTCC C AACGATC

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_001011553](#), [NM_001242956](#), [NM_001788](#), [NM_001363715](#)

UniProt ID:

[Q16181](#)

Synonyms: CDC3; CDC10; NBLA02942; SEPT7A

Summary: This gene encodes a protein that is highly similar to the CDC10 protein of *Saccharomyces cerevisiae*. The protein also shares similarity with Diff 6 of *Drosophila* and with H5 of mouse. Each of these similar proteins, including the yeast CDC10, contains a GTP-binding motif. The yeast CDC10 protein is a structural component of the 10 nm filament which lies inside the cytoplasmic membrane and is essential for cytokinesis. This human protein functions in gliomagenesis and in the suppression of glioma cell growth, and it is required for the association of centromere-associated protein E with the kinetochore. Alternative splicing results in multiple transcript variants. Several related pseudogenes have been identified on chromosomes 5, 7, 9, 10, 11, 14, 17 and 19. [provided by RefSeq, Jul 2011]

Product images:

