

Product datasheet for **KN214107**

Dectin 1 (CLEC7A) 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:	Dectin 1
Locus ID:	64581
Components:	<p>KN214107G1, Dectin 1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCGACTCTCAAAGCAATACC</p> <p>KN214107G2, Dectin 1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTCTGAAACAACAGCTATCC</p> <p>KN214107D, 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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TGTTGTTACA ACAATGCATC TCCTCATGCC ATCCCTCATT TACCTATCTA TATATTTCTT TTATTAAGCA
ATGAGTTTCT TCATAGGTAT CATTTTTCCT TGTATTGTAA GTCCTACCA ATTGAAAAGG TGGGCATCCA
GTACCTGTTT ATGTAATTTA AAAAATACAT GAATAAATC ATGAACAAAG TTATGGTAAA CTTGGAGCAC
CAAACTGAA ATAGTTTGCA TCGGTAAAT TAATTAATGT CAGACTTAGT TGTGAGAGTA ATGAAGGCAG
CATAAGACAT TAATGTATG ATTTTCTTA CATTGGTCT GAAACAAAGA CTCATCTGCT ATGCTGCCTT
TTAGTTTTCC TGAGTCAGCA GTCTCAGAAA CAGGATCTAA AGGTACAAAT GGAAAATTAC CACAGCATAG
TTTCATTTCC TGCTCTTGAA TATCTGGTTG AACTACTTAA GCTTAATTTG TTAAACTCCG GTAAGTACCT
AGCCACATG ATTTGACTCA GAGATTCTCT TTTGTCCACA GACAGTCATC TCAGGAGCAG AAAGAAAAGA
GCTCCCAAT GCTATATCTA TTCAGGGGCT CTCAAGAACA CTCCCCTTTG AAAAGATATA AGGGGAGGCT
AGGCATGGTG GCTCACACCT GTAATCCCAG CACTTTGGGA GGCCGAGGCG GGTGGATTGA CTGAGGTCAG
GAGTTCGAGG CCAGCTTGGC TAACGTGGTG AACTCTGTC TCTACTAAAA ATACAAAAAT TAGCCGGGCA
TGGTGGTGCA CGCCTGTAGT TCCAGGTACT TGGGAGGCTG AGGCAGGAGA ATCACTTGAA CCTGGGAGGT
GGAGGTTGCA GTGAGCCAAG ATCATGCCAA TGCCTCCAG CCTGGGTGGC AGAGCAAGAC TCCATCTCTG
AAAAAAAATA AAAATAAAAA CAAAACAAAA AGATATAAGG GGAGAAAATT TGAGAGCCTC GTGATGTGTA
TATTTTTATG GATATACTTT TAAAGGCTTC AGATGTCACT GAAGATAAAT TGAATGCACC CTAACCTTTT
TTTCATGAAA ATTATTCAGT GACCAATTAT TAGTGTTTAA ATTAATTATG TCTGATGGCA GAAAATAGAA
TTTCTCTTTT CTATAGATAT AGACATTTCA TCAGTGAGGA ATTGTAATA AGTGGGATAA TACACAAGA
TAAAGGATTT
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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_022570](#), [NM_197947](#), [NM_197948](#), [NM_197949](#), [NM_197950](#), [NM_197951](#), [NM_197952](#), [NM_197953](#), [NM_197954](#), [NR_125336](#)

UniProt ID: [Q9BXN2](#)

Synonyms: BGR; CANDF4; CD369; CLECSF12; DECTIN1; SCARE2

Summary: This gene encodes a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. The encoded glycoprotein is a small type II membrane receptor with an extracellular C-type lectin-like domain fold and a cytoplasmic domain with an immunoreceptor tyrosine-based activation motif. It functions as a pattern-recognition receptor that recognizes a variety of beta-1,3-linked and beta-1,6-linked glucans from fungi and plants, and in this way plays a role in innate immune response. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. This gene is closely linked to other CTL/CTLD superfamily members on chromosome 12p13 in the natural killer gene complex region. [provided by RefSeq, Jul 2008]

Product images:

