

## Product datasheet for **KN219458**

### CD272 (BTLA) 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:	CD272
Locus ID:	151888
Components:	<p><b>KN219458G1</b>, CD272 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TAATCCCATATCTGGACATC</p> <p><b>KN219458G2</b>, CD272 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TTGCCTGCCATGCTTGAAC</p> <p><b>KN219458D</b>, 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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TAAATCTTCA CTGGTTTAA TACAATAAGC ATCCTCATCT TACCGTGACA TGTACAGGAA AAAAAAGAAA
CCTAAAATCT TTTACATAAA AGAAGTTTCA TAATCACAAG CTATCACAAA GGGGAAAATG TATACTTACC
ATTGATAGTT TTACCATAAA TTTCTGACC TTAATTTGAT TAAAATCTCA ACTTAAAGAC TGCAACAATA
CAGATTTCTT TAAAGTTTAA TTGTCATTT CACTGAACAT TGAGTGCAGG AAAAACCTCA ACCTGGGGCA
AAAACGTGGT AGAGCGGAAG GAGAAGTTAA GGACTGAGCT GCTTTGCAGA TCACAGTGTG TGAAGTGAA
CAGCCAACCT GACAAGAAGC AAAAACCACA GAACAGAGTA CCACATCGTC TTTCTGTTC CTTTTTTTCA
CAAATCATC CAGGCTCTTC CTA CTCTCTCTC CTCTCTCTTC TTTTTTTTTT TTTTTTAGTT
ATTTACAGA TGCCACTGGG GTAGGTAAC TGACCAACT CTGCAGCACT CAGAAGACGA AGCAAAGCCT
TCTACTTGAG CAGTTTTTCC ATCACTGATA TGTGCAGGAA GTTATTTCTG GTTTTATTTTC TCAGGGGGTC
TTGGAGGCAA CATTCTCCCT TGCTGAACCT AGTACGGTGT AACGTTTATA CGAAGTGGGT AATCGTAGAT
GAAACCAAGC TGTTACATTT GCTTACCGAA GACATCGTAG AGCATAAACC AAATTAGAAC ATAGTATTCA
CCTGCCTAAT CATAGGCATC GCATCAATAG CTTGGCTGAC TTTCTTAAAA ACATGTTGAT GGTAGGAAAA
GAGAACTGAG TAGATGTTAT AAATAGTTAA GTACAAATCT ATCACTACTT CTGCAAAAA TGCTCTGGCT
GCCATACTGA TAATGAATAG ATAGCTCGTT CTTTCCAAC TGAGTGCAGT AGAGTGTGCT AGTGTCTAGT
TGGGTAGGAC AGTTGTTGGA TAATCGGAAT TATACATATC TCCATGGTTA CCCTCAAATA ATATTACCTC
TAAATAAAAT CTCTATACTT GCTTCATTGG GATGTATGCC TTGAGAATAC CGATTGAGAA AATGCTACAA
AATATAGGAG CAGAACTTTT CGTCATTGCT TCTATTTTGT TGAAAGGGAA TGGTTCCTAC TTGTTGTGCA
ATTGAACACA
```

**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\\_001085357](#), [NM\\_181780](#)

**UniProt ID:** [Q7Z6A9](#)

**Synonyms:** BTLA1; CD272

**Summary:** This gene encodes a member of the immunoglobulin superfamily. The encoded protein contains a single immunoglobulin (Ig) domain and is a receptor that relays inhibitory signals to suppress the immune response. Alternative splicing results in multiple transcript variants. Polymorphisms in this gene have been associated with an increased risk of rheumatoid arthritis. [provided by RefSeq, Aug 2011]

### Product images:

