

Product datasheet for **KN202455RB**

CD44 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:	CD44
Locus ID:	960
Components:	<p>KN202455G1, CD44 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGCACCTCACCGATCTGCGCC</p> <p>KN202455G2, CD44 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGTTTTGGTGGCAGCAGCC</p> <p>KN202455RBD, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.</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**

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AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG 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 AACGTTCTC GGGGCGAAAA CTCTCAAGGA TCTTACCCTG GTTGAGATCC AGTTCGATGT
AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTACCAGC GTTTCTGGGT GAGCAAAAAC
AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT
TTTCAATATT ATTGAAGCAT TTATCAGGT TATTGTCTCA TGAGCGGATA CATATTTGAA TGTATTTAGA
AAAATAAACA AATAGGGGTT CCGCGCACAT TTCCCGGAAA AGTGCCACCT GACGTCTAAG AAACCATTAT
TATCATGACA TTAACCTATA AAAATAGGCG TATCACGAGG CCCTTTCGGG TCGCGGTTT CGGTGATGAC
GGTAAAACC TCTGACACAT GCAGCTCCCG TTGACGGTCA CAGCTTGCT GTAAGCGGAT GCCGGGAGCA
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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 CTGCGCGTAA CCACCACACC CGCCGCGCTT AATGCGCCGC TACAGGGCGC GACTATGGT
TGCTTTGACG TATGCGGTGT GAAATACCGC ACAGATCGCT AAGGAGAAAA TACCGCATCA GGCGCCATTC
GCCATTCAGG CTGCGCAACT GTTGGGAAGG GCGATCGGTG CGGGCCTCTT CGCTATTACG CCAGCTGGCG
AAAGGGGAT GTGCTGCAAG GCGATTAAGT TGGGTAACGC CAGGGTTTTT CCAGTACGA CGTTGTAATA
CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACAGG CTGTCGCCGT GCTCATTTGA
  
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TAACTGCCCG TTATTCATGC GACATCTCCA GCTCCTCTCC CAGGATATCC AACATCCTGT GAAACCCAGA
 GATCTTGCTC CAGCCGGATT CAGAGAAATT TAGCGGGAAA GGAGAGGCCA AAGGCTGAAC CCAATGGTGC
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 GGGTCTCCC AGCTCCCCAC TGAGCCTGT TCCAAAGCTT ACAGTCCGCA GTGCTACTGC CACCTTAGCG
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 GGGGTGCCTA ATGAGTGAGC TAACTCAT TAATTGCGTT GCGTCACTG CCCGTTTCC AGTCGGGAAA
 CCTGTCGTGC CAGCTGCATT AATGAATCG CCAACGCGCG GGGAGAGGCG GTTTCGTAT TGGGCGCTCT
 TCCGCTTCT CGTCACTGA CTCGCTGCG TCGGTCGTTG GGCTGCGCG AGCGGTATCA GCTCACTCAA
 AGCGGTAAT ACGGTTATCC ACAGAATCAG GGGATAACGC AGGAAAAGAAC ATGTGAGCAA AAGGCCAGCA
 AAAGGCCAGG AACCGTAAAA AGGCCGCTT GCTGGCGTTT TTCCATAGGC TCCGCCCCCG TGACGAGCAT
 CACAAAAATC GACGCTCAAG TCAGAGGTGG CGAAACCCGA CAGGACTATA AAGATACCAG CGGTTTCCCC
 CTGGAAGCTC CCTCGTGC GCCTCTGTTC CGACCCTGCC GCTTACCGGA TACCTGTCCG CCTTTCTCCC
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 AGTCCAACCC GGTAAGACAC GACTTATCG CACTGGCAGC AGCCACTGGT AACAGGATTA GCAGAGCGAG
 GTATGTAGC GGTGCTACAG AGTTCTTGA GTGGTGGCCT AACTACGCT AACTAGAAG AACAGTATTT
 GGTATCTGCG CTCTGCTGAA GCCAGTTACC TTCGAAAAA GAGTTGGTAG CTCTTGATCC GGCAAACAAA
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 ATGAGATTAT CAAAAAGGAT CTTACAC TAGCTTTTAA ATTAATAATG AAGTTTAA TCAATCTAAA
 GTATATATGA GTAAACTTGG TCTGACAGT ACCAATGCTT AATCAGTGAG GCACCTATCT CAGCGATCTG
 TCTATTTCTG TCATCCATAG TTGCCTGACT CCCGTCGCTG TAGATAACTA CGATACGGGA GGGCTTACCA
 TCTGGCCCA GTGCTGCAAT GATACCGCA GAACCACGCT CACCGGCTCC AGATTTATCA GCAATAAAC
 AGCCAGCCG AAGGGCCGAG CGCAGAAGTG GTCCTGCAAC TTTATCCGCC TCCATCCAGT CTATTAATTG
 TTGCCGGGAA GCTAGAGTAA GTAGTTCGCC AGTTAATAGT TTGCGCAACG TTGTTGCCAT TGCTACAGGC
 ATCGTGGTGT CACGCTCGTC GTTTGGTATG GCTTCATTCA GCTCCGGTTC 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_000610](#), [NM_001001389](#), [NM_001001390](#), [NM_001001391](#), [NM_001001392](#),
[NM_001202555](#), [NM_001202556](#), [NM_001202557](#)

UniProt ID: [P16070](#)

Synonyms: CDW44; CSPG8; ECMR-III; HCELL; HUTCH-I; IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1

Summary: The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis. [provided by RefSeq, Jul 2008]

Product images:

