

## Product datasheet for **KN200718**

### CD98 (SLC3A2) 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:	CD98
Locus ID:	6520
Components:	<p><b>KN200718G1</b>, CD98 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTGGCGCGGAATCGACACGA</p> <p><b>KN200718G2</b>, CD98 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCGGGGGACGACTCAGGTAC</p> <p><b>KN200718D</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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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 AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCCTG GTTGAGATCC AGTTTCGATGT
AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTACCACAG GTTTCTGGGT GAGCAAAAAC
AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT
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TATCATGACA TTAACCTATA AAAATAGGCG TATCACGAGG CCCTTTCGGG TCGCGGTTT CGGTGATGAC
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**TGCCAGGCT GGAATGCAAT GGCCGATCT CAGCTCACTG CATTCCACT CCCGGTTCA AGCAATTCTC**  
**CTGCTCAGC CTCTGAGTA GCTGGGATTA CAGGCATGCG CCACTGTGAC CGGCTAATTT TGTATTTTAA**  
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**CGGAGGCTTG CTCTGTCGCC CAGGCTGGAG TGCAGTGGCG GGATGTCTGT TCACTGCAAC CTCCGTTTCC**  
**CAGTTCAAG CGATTCTCT TCCTCAGCCT CTTGAGTAGC TGGGATTACA GGCTCCCGCC ATCATCATGC**

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 TGGCTCAGCA TTTTGGGAGA CGACAGTCTT CACTGACTGA CTGACTGGAA AGAGGAAGGG CTGGAAGAGG  
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 GTTCGGCTGC GCGGAGCGGT ATCAGCTCAC TCAAAGGCGG TAATACGGTT ATCCACAGAA TCAGGGGATA  
 ACGCAGGAAA GAACATGTGA GCAAAAAGGCC AGCAAAAAGGC CAGGAACCGT AAAAAAGGCCG CGTTGTCTGGC  
 GTTTTTCCAT AGGCTCCGCC CCCCTGACGA GCATCACAAA AATCGACGCT CAAGTCAGAG GTGGCGAAAC  
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 CGTGTAGATA ACTACGATC GGGAGGGCTT ACCATCTGGC CCCAGTGTG CAATGATACC GCGAGAACCA  
 CGCTCACCGG CTCCAGATTT ATCAGCAATA AACCAGCCAG CCGGAAGGGC CGAGCGCAGA AGTGGTCTG  
 CAACTTTATC CGCCTCCATC CAGTCTATTA ATTGTTGCCG GGAAGCTAGA GTAAGTAGTT CGCCAGTTAA  
 TAGTTTGCGC AACGTTGTTG CCATTGCTAC AGGCATCGTG GTGTCACGCT CGTCGTTTGG TATGGCTTCA  
 TTCAGCTCCG GTTCCCAACG ATC

**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\\_001012661](#), [NM\\_001012662](#), [NM\\_001012663](#), [NM\\_001012664](#), [NM\\_001013251](#), [NM\\_002394](#), [NR\\_037193](#)

**UniProt ID:**

[P08195](#)

**Synonyms:**

4F2; 4F2HC; 4T2HC; CD98; CD98HC; MDU1; NACAE

**Summary:**

This gene is a member of the solute carrier family and encodes a cell surface, transmembrane protein. The protein exists as the heavy chain of a heterodimer, covalently bound through di-sulfide bonds to one of several possible light chains. The encoded transporter plays a role in regulation of intracellular calcium levels and transports L-type amino acids. Alternatively spliced transcript variants, encoding different isoforms, have been characterized. [provided by RefSeq, Nov 2010]

Product images:

