

Product datasheet for **KN308084**

Idh2 Mouse 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:	Idh2
Locus ID:	269951
Components:	<p>KN308084G1, Idh2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTCGGGCTCAGCGCGGACCT</p> <p>KN308084G2, Idh2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGAGCGAGCTCACAGCCCGC</p> <p>KN308084D, 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 GTATGCCGGC
ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAATTTT AAAAGTGCTC
ATCATTGGAA AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCCTG GTTGAGATCC AGTTCGATGT
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CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACTGA CTGACTGACT GGAAGACACA

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CCTCCCCC CCGCCCCG CCGCAGCGTC TCATATAGCC CAGGCTGGTC TAGAACTTGG TATGTAGCCT
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TTGGAGGGGA **CAAGCGACCA** **AGAGGGGCTG** **GAGCGGCTG** **CTGCAGCCCT** **AGGCAGAGGA** **GGGTACCTC**

GCGCTCCCGG CTCAGACAAA GGCGAGGAGG AGAGGCCTCC ACTTCCCCTT CTCTCCAATC CCTGCGTACT
 CTGGTCCCTC CTCTCCAACA GGCCACGTC AGCTATTTTT GGAACCTTTA CTCGACAGCT GGAGGAATGT
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 GTTCGGCTGC GGCGAGCGGT ATCAGCTCAC TCAAAGGCGG TAATACGGTT ATCCACAGAA TCAGGGGATA
 ACGCAGGAAA GAACATGTGA GCAAAAAGGCC AGCAAAAAGGC CAGGAACCGT AAAAAAGCCG CGTTGCTGGC
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 CGCTCACCGG CTCCAGATTT ATCAGCAATA AACCAGCCAG CCGGAAGGGC CGAGCGCAGA AGTGGTCCTG
 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_173011](#)

UniProt ID:

[P54071](#)

Synonyms:

E430004F23; Idh-2; IDPm

Summary:

Plays a role in intermediary metabolism and energy production. It may tightly associate or interact with the pyruvate dehydrogenase complex.[UniProtKB/Swiss-Prot Function]

Product images:

