

Product datasheet for **KN218988**

GRIM19 (NDUFA13) 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:	GRIM19
Locus ID:	51079
Components:	<p>KN218988G1, GRIM19 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ATGGGCCCATAGCCCCCGG</p> <p>KN218988G2, GRIM19 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGACCCGACAGTCCTCGACG</p> <p>KN218988D, 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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 TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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_015965](#)

UniProt ID:

[Q9P0J0](#)

Synonyms:

B16.6; CDA016; CGI-39; GRIM-19; GRIM19

Summary:

This gene encodes a subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), which functions in the transfer of electrons from NADH to the respiratory chain. The protein is required for complex I assembly and electron transfer activity. The protein binds the signal transducers and activators of transcription 3 (STAT3) transcription factor, and can function as a tumor suppressor. The human protein purified from mitochondria migrates at approximately 16 kDa. Transcripts originating from an upstream promoter and capable of expressing a protein with a longer N-terminus have been found, but their biological validity has not been determined. [provided by RefSeq, Oct 2009]

Product images:

