

Product datasheet for **KN211804**

Dicer (DICER1) 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:	Dicer
Locus ID:	23405
Components:	KN211804G1 , Dicer gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCACCAATGGGTCCTTTCTT KN211804G2 , Dicer gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TTGCAACCCCTCAGCATGGC KN211804D , donor DNA containing left and right homologous arms and GFP-puro functional cassette.

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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AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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 AATTGTTGCC GGAAGCTAG AGTAAGTAGT TCGCCAGTTA ATAGTTTGC CAACGTTGTT GCCATTGCTA
 CAGGCATCGT GGTGTCACGC TCGTCGTTG GTATGGCTTC ATTCAGCTCC GGTTCACCAAC GATC

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_001195573](#), [NM_001271282](#), [NM_001291628](#), [NM_030621](#), [NM_177438](#)

UniProt ID:

[Q9UPY3](#)

Synonyms:

DICER1; Dicer; Dicer1e; HERNA; K12H4.8-LIKE; MNG1; RMSE2

Summary:

This gene encodes a protein possessing an RNA helicase motif containing a DEXH box in its amino terminus and an RNA motif in the carboxy terminus. The encoded protein functions as a ribonuclease and is required by the RNA interference and small temporal RNA (stRNA) pathways to produce the active small RNA component that represses gene expression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2010]

Product images:

