

Product datasheet for **KN208525**

Dynamin 2 (DNM2) 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:	Dynamin 2
Locus ID:	1785
Components:	<p>KN208525G1, Dynamin 2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGATCAGCTCTCCATCCCG</p> <p>KN208525G2, Dynamin 2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCGCCACTACAGCGATCTG</p> <p>KN208525D, 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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 AACTGCGGC CAACTTACTT CTGACAACGA TCGGAGGACC GAAGGAGCTA ACCGCTTTTT TGCACAACAT
 GGGGATCAT GTAACCTGCC TT

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_001005360](#), [NM_001005361](#), [NM_001005362](#), [NM_001190716](#), [NM_004945](#)

UniProt ID:

[P50570](#)

Synonyms:

CMT2M; CMTDI1; CMTDIB; DI-CMTB; DYN2; DYNII; LCCS5

Summary:

Dynamins represent one of the subfamilies of GTP-binding proteins. These proteins share considerable sequence similarity over the N-terminal portion of the molecule, which contains the GTPase domain. Dynamins are associated with microtubules. They have been implicated in cell processes such as endocytosis and cell motility, and in alterations of the membrane that accompany certain activities such as bone resorption by osteoclasts. Dynamins bind many proteins that bind actin and other cytoskeletal proteins. Dynamins can also self-assemble, a process that stimulates GTPase activity. Five alternatively spliced transcripts encoding different proteins have been described. Additional alternatively spliced transcripts may exist, but their full-length nature has not been determined. [provided by RefSeq, Jun 2010]

Product images:

