

Product datasheet for **KN208239**

GFM1 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:	GFM1
Locus ID:	85476
Components:	<p>KN208239G1, GFM1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCAGGTACCGAGCATAGAG</p> <p>KN208239G2, GFM1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGCGGCTCTGGGGCGCGGAA</p> <p>KN208239D, 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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CTTCCACATG GACAGGACAT GAAATGTCTG ACATCGAACA ATAACAAATA ACATTTTGAC ATGAGGAAAA
GTATTTGTAA TTGTAATTGA TAGTTCATTC ACTATAATTT GTCCACGTTT TTTTTCAGGC CATGTCATAT
ATATACCTAT TAATATTTGT AATAGACAAT TTTGCTCTTT TCTACTTAAA TTGTTATATA CATTCTCCA
CATTGCTTTA TAGGCCTAAC AACCATGTTT AAATTCTGTA TCTTCATACA GAGGTAATAT TAAAAAAGA
AGACGAAGAC AAAAGGACTC CTTCCCTCA CCCATATACC TATGCCGTCT TACTGGGAGC AAACACTTCT
TTAGCTCCGC AAAGCGATTG CACTTTCTCT TCCAAGTCGG CAGACGGCGC GCGAGCAGCG TAGGCACTGC
TCCGCCTCCA ATCCAGTTGC TCTTCTTCT TTTCTCACT CTCTTTTTC TCGCGTCCTT TGCCCCGGAA
GTGCTCTTAC AACATTGGCT GCCGGCGTGA CTTTGACCGC TTCCCGGTGC GTTACCGGCA GCTGAACCCA
CCCGGCGCCA CGGGACTTTG ACGCGTGCTC TCGCCTTGCC AGGCTAAATC GGGACCATTG CCGGAACCTT
GTGATCCCTT CTGGGCAATG GAAGGCCGTG ACACCCCTG GGTCTCATG ACTGACAGCT CCGAATACTG
GCAGTCGCTC GTCAGTGCTG AAAAGCACCT CGGTGCCTGC ACATTAGCTC GTTAGCTCGT TTGTTTCGCT
CTCTGGTATC CCTAGGGTTT AATCAACTAA AAGTGTCTGT CACTCAGATA CTTTGATATT TTATCCACCT
TTTCTAAGT TTTTTTTTTT TTTTTTTGCC TCTCTTTCC CGTGAATAAT TGTGCATTTT GGATGTGCAG
TCCTATAGGG AAAGTTTAT ATTGTATCTT CATTCCATCT AATAGGGATC CCCATCCCTT GCCACCAGAG
TAAAGTAAA ACAAGCTTCA TGAATTGTTT TTGTTGGAG GGAATTGAA ATCTTTGGG GCTGTCTTGG
AGTACTAGC ATCACTGCAT AGAGCATATA AGTTCTCAA CATATTTGTC ATCTGTGAAC TACAATAAAG
GAGAAAGGGA AAAAAATTA GTTAAATTA AGCTAAAATT TGTATTTTCT ATTAAGTAT TTTTTGGAG
TGTCTTTGTG

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GE100003, scramble sequence in pCas-Guide vector



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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_001308164](#), [NM_001308166](#), [NM_024996](#)

UniProt ID: [Q96RP9](#)

Synonyms: COXPD1; EFG; EFG1; EFGM; EGF1; GFM; hEFG1

Summary: Eukaryotes contain two protein translational systems, one in the cytoplasm and one in the mitochondria. Mitochondrial translation is crucial for maintaining mitochondrial function and mutations in this system lead to a breakdown in the respiratory chain-oxidative phosphorylation system and to impaired maintenance of mitochondrial DNA. This gene encodes one of the mitochondrial translation elongation factors. Its role in the regulation of normal mitochondrial function and in different disease states attributed to mitochondrial dysfunction is not known. [provided by RefSeq, Jul 2008]

Product images:

