

Product datasheet for **KN203886**

c20orf72 (MGME1) Human Gene Knockout Kit (CRISPR)

Product data:

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| Product Type: | Knockout Kits (CRISPR) |
| Format: | 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control |
| Donor DNA: | GFP-puro |
| Symbol: | c20orf72 |
| Locus ID: | 92667 |
| Components: | <p>KN203886G1, c20orf72 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGACCATTTGCAGGCAGCTC</p> <p>KN203886G2, c20orf72 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGTGGAATCAGCTGCCCTTG</p> <p>KN203886D, 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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CGGGAGGCGA CTTTTGCGG TCACAGTAAT GGGACCTCAG CGCCGCCACC AGCTCTGACC GGCGAGCGAC
GGGACCCTCC AACCCGATTT CCACGTCTGT GCAACGGGTT CATTCTAGAC CCACGGTAGA GGGTGTGAGG
ACCAAATGAG AAGTATCCAC ACAGAATACT TAGCAGAGAG CCTGGTGTCT AGGAATTAGT CGTCGTCTGT
CACCTAGGAC TGTGTGGCCG CCATGGGACG GGCTCCATCT TTGTGTTTTT CCGTGTCTCG CACACGCCTC
CCTTCTGGG CGTCACATTC CTGCAGATTA GAAACTGGGA CGTCTTGCCT CAAGCTGTCT ACTAATTCGC
ATTTAGTATG TGTGCGTCCT TCGGGTATTG AGTCTTGATT TATTTATAAA TTTTTTTTGG AGGCAGGGTC
TCGCTCTGTC GACTTTCTTA AGAAAGGGCT CTGTCCAAC ATGTGCAAAA AGTTCACAAT TTTGATGTGC
AATATCATTG TGATGCAGCT TTCGCTTTGA TGGTTGTTTT CTCTCCAATA GGAATACAAA CATAAAGGCC
TTCGACC GTT GCAAATAGAC TAAAGTGAAA ACAAATCTGA TGGCTTTCTC TACTTCTCT TACTCATGTG
GCCGGAAGAA AAAAGTGAAC CCATATGAAG AAGTGGACCA AGAAAAATAC TCTAATTTAG TTCAGTCTGT
CTTGTCATCC AGAGGCGTCG CCCAGACCCC GGGATCGGTG GAGGAAGATG CTTTGCTCTG TGGACCCGTG
AGCAAGCATA AGCTGCCAAA CCAAGGTGAG GACAGACGAG TGCCACAAAA CTGGTTTCTC ATCTTCAATC
CAGAGAGAAG TGATAAACCA AATGCAAGTG ATCCTTCAGT TCCTTTGAAA ATCCCCTTGC AAAGGAATGT
GATACCAAGT GTGACCCGAG TCCTTCAGCA GACCATGACA AAACAACAGG TTTTCTTGTT GGAGAGGTGG
AAACAGCGGA TGATTCTGGA ACTGGGAGAA GATGGCTTTA AAGAATACAC TTCAAGTAAT TATCTCAATT
CTGATTCTAT ATGTTTGCTA TGTTTTCTAT AATAGAGAGC AACGGTGTC AAAGAATGAG GTTTGGTTTT
GTTTTTTTAA CTTACTAGCA AGGAACTCCC TTCAGATAGT AATTAACATT AAATAGCACT TTATGTGTAT
TAACTCACTT

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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_001310338](#), [NM_001310339](#), [NM_052865](#), [NM_001363738](#)

UniProt ID: [Q9BQP7](#)

Synonyms: bA504H3.4; C20orf72; DDK1; MTDPS11

Summary: The protein encoded by this gene is a nuclear-encoded mitochondrial protein necessary for the maintenance of mitochondrial genome synthesis. The encoded protein is a RecB-type exonuclease and primarily cleaves single-stranded DNA. Defects in this gene have been associated with mitochondrial DNA depletion syndrome-11. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2015]

Product images:

