

Product datasheet for KN215488RB

OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

Possible Modern Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

mtTFA (TFAM) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA:RFP-BSDSymbol:mtTFALocus ID:7019

Components: KN215488G1, mtTFA gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN215488G2, mtTFA gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN215488RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

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: <u>NM 001270782</u>, <u>NM 003201</u>, <u>NM 012251</u>, <u>NR 073073</u>

UniProt ID: Q00059

Synonyms: MTTF1; MTTFA; TCF6; TCF6L1; TCF6L2; TCF6L3

Summary: This gene encodes a key mitochondrial transcription factor containing two high mobility

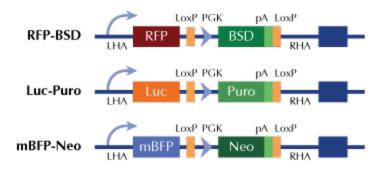
group motifs. The encoded protein also functions in mitochondrial DNA replication and repair. Sequence polymorphisms in this gene are associated with Alzheimer's and Parkinson's diseases. There are pseudogenes for this gene on chromosomes 6, 7, and 11. Alternative

splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]



Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter