

Product datasheet for **KN201808**

FUS 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: FUS
Locus ID: 2521
Components: **KN201808G1**, FUS gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCGCCCTTACCTACCGTTTG
KN201808G2, FUS gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TTTCGTTTTTCAGTGGGACCG
KN201808D, 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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 GGGGATCATG TAACTCGCCT T

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_001010850](#), [NM_001170634](#), [NM_001170937](#), [NM_004960](#), [NR_028388](#)

UniProt ID:

[P35637](#)

Synonyms:

FUS-CHOP; FUS1; TLS

Summary:

This gene encodes a multifunctional protein component of the heterogeneous nuclear ribonucleoprotein (hnRNP) complex. The hnRNP complex is involved in pre-mRNA splicing and the export of fully processed mRNA to the cytoplasm. This protein belongs to the FET family of RNA-binding proteins which have been implicated in cellular processes that include regulation of gene expression, maintenance of genomic integrity and mRNA/microRNA processing. Alternative splicing results in multiple transcript variants. Defects in this gene result in amyotrophic lateral sclerosis type 6. [provided by RefSeq, Sep 2009]

Product images:

