

Product datasheet for KN301038LP

Aifm1 Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

Aifm1 Symbol: 26926 Locus ID:

KN301038G1, Aifm1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN301038G2, Aifm1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN301038LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

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: NM 001290364, NM 012019

UniProt ID: Q9Z0X1

Synonyms: AIF; AIFsh2; Hq; Pdcd8

Summary: Functions both as NADH oxidoreductase and as regulator of apoptosis. In response to

> apoptotic stimuli, it is released from the mitochondrion intermembrane space into the cytosol and to the nucleus, where it functions as a proapoptotic factor in a caspase-independent pathway. In contrast, functions as an antiapoptotic factor in normal mitochondria via its NADH oxidoreductase activity. The soluble form (AIFsol) found in the nucleus induces 'parthanatos' i.e. caspase-independent fragmentation of chromosomal DNA. Interacts with EIF3G, and thereby inhibits the EIF3 machinery and protein synthesis, and activates casapse-7 to amplify apoptosis. Plays a critical role in caspase-independent, pyknotic cell death in

hydrogen peroxide-exposed cells. Binds to DNA in a sequence-independent manner (By

similarity).[UniProtKB/Swiss-Prot Function]



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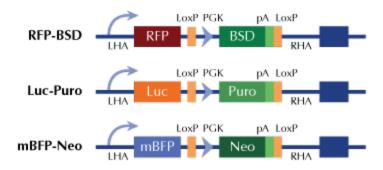
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Product images:

Donor Vector Edited Chromosome



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