

## Product datasheet for **KN501040**

### **Aifm3 Mouse Gene Knockout Kit (CRISPR)**

#### **Product data:**

|               |                                |
|---------------|--------------------------------|
| Product Type: | Knockout Kits (CRISPR)         |
| Format:       | 2 gRNA vectors, 1 linear donor |
| Donor DNA:    | EF1a-GFP-P2A-Puro              |
| Symbol:       | Aifm3                          |
| Locus ID:     | 72168                          |



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## Components:

**KN501040G1**, Aifm3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)**KN501040G2**, Aifm3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)**KN501040D**, Linear donor DNA containing LoxP-EF1A-tGFP-P2A-Puro-LoxP:

The sequence below is cassette sequence only. The linear donor DNA also contains proprietary target sequence.

LoxP-EF1A-tGFP-P2A-Puro-LoxP (2739 bp)

ATAACTTCGT ATAATGTATG CTATACGAAG TTATCGTGAG GCTCCGGTGC CCGTCAGTGG GCAGAGCGCA  
CATCGCCAC AGTCCCGGAG AAGTTGGGG GAGGGGTCCG CAATTGAACC GGTGCCTAGA GAAGGTGGCG  
CGGGTAAC TGGGAAAGTG ATGTCGTGTA CTGGCTCCG CTTTTCCCG AGGGTGGGG AGAACCGTAT  
ATAAGTCAG TAGTCGCCGT GAACGTTCTT TTTCCGAACG GGTTCGCCG CAGAACACAG GTAAGTGCCG  
TGTGTGGTTC CCGCGGGCCT GGCCTCTTTA CGGGTTATGG CCCTTGCGTG CCTTGAATTA CTTCCACCTG  
GCTGCAGTAC GTGATTCTTG ATCCCGAGCT TCGGGTTGGA AGTGGGTGGG AGAGTTCGAG GCCTTGCGCT  
TAAGGAGCCC CTTCGCCTCG TGCTTGAGTT GAGGCCTGGC CTGGGCGCTG GGGCCCGCG GTGCGAATCT  
GGTGGCACCT TCGCGCCTGT CTCGCTGCTT TCGATAAGTC TCTAGCCATT TAAAATTTT GATGACCTGC  
TGCAGCGCTT TTTTTCTGGC AAGATAGTCT TGTAAATGCG GGCCAAGATC TGCACACTGG TATTCGGTT  
TTTGGGGCCG CGGGCGGCGA CGGGGCCCGT GCGTCCCAGC GCACATGTTC GGCGAGGCGG GGCCTGCGAG  
CGCGGCCACC GAGAATCGGA CGGGGTAGT CTCAAGCTGG CCGGCCTGCT CTGGTGCCTG GCCTCGCGCC  
GCCGTGTATC GCCCGCCCT GGGCGGAAG GCTGGCCGG TCGGCACCAG TTGCGTGAGC GGAAAGATGG  
CCGTTCCCG GCCCTGTGC AGGGAGCTCA AAATGGAGGA CGCGGCGCTC GGGAGAGCGG GCGGGTGA  
CACCCACACA AAGGAAAAGG GCCTTTCCGT CCTCAGCCGT CGCTTCATGT GACTCCACGG AGTACCGGGC  
GCCCTCCAG CACCTCGATT AGTTCTCGAG CTTTTGGAGT ACGTCGTCTT TAGTTGGGG GGAGGGGTTT  
TATGCGATGG AGTTTCCCA CACTGAGTGG GTGAGACTG AAGTTAGGCC AGCTTGACAT TTGATGTAAT  
TCTCCTGGGA ATTTGCCCTT TTTGAGTTTG GATCTTGGTT CATTCTCAAG CCTCAGACAG TGGTTCAAAG  
TTTTTTCTT CCATTTCAAG TGTCGTGAAT GGAGAGCGAC GAGAGCGGCC TGCCCGCCAT GGAGATCGAG  
TGCCGCATCA CCGGCACCCT GAACGGCGTG GAGTTCGAGC TGGTGGGCGG CGGAGAGGGC ACCCCCGAGC  
AGGGCCGCAT GACCAACAAG ATGAAGAGCA CCAAAGGCGC CCTGACCTTC AGCCCTACC TGCTGAGCCA  
CGTGATGGC TACGGCTTCT ACCACTTCG CACCTACCC AGCGGCTACG AGAACCCCTT CCTGCACGCC  
ATCAACAACG GCGGCTACAC CAACACCCG ATCGAGAAGT ACGAGGACGG CGGCGTGCTG CACGTGAGCT  
TCAGTACC GCTACGAGGC GGCCGCTGA TCGGCGACTT CAAGGTGATG GGCACC GGCT TCCCGGAGGA  
CAGCGTGATC TTCACCGACA AGATCATCCG CAGCAACGCC ACCGTGGAGC ACCTGCACCC CATGGCGAT  
AACGATCTGG ATGGCAGCTT CACCCGACC TTCAGCCTGC GCGACGGCGG CTA CTACAGC TCCGTGGTGG  
ACAGCCACAT GCACTTCAAG AGCGCCATCC ACCCCAGCAT CCTGCAGAAC GGGGGCCCA TGTTCCCTT  
CCGCCCGTG GAGGAGGATC ACAGCAACAC CGAGTGGG ATCGTGGAGT ACCAGCACGC CTTCAAGACC  
CCGGATGCAG ATGCCGGTGA AGAAAGAGGA AGCGGAGCTA CTA ACTTCAG C CTGCTGAAG CAGGCTGGAG  
ACGTGGAGGA GAACCTGGA CCTATGACCG AGTACAAGC CACGGTGC GC CTCGCCACC GCGACGACGT  
CCCCAGGGC GTACGCACC TCGCCGCCG GTTCGCCGAC TACCCGCCA CGGCCACAC CGTCGATCCG  
GACCGCCACA TCGAGCGGT CACCGAGCTG CAAGA ACTCT TCCTCACGCG CGTCGGGCTC GACATCGCA  
AGGTGTGGT CGCGGACGAC GCGCCCGCG TGGCGTCTG GACCACGCC GAGAGCGTCG AAGCGGGGGC  
GGTGTCCGC GAGATCGGCC CGCGCATGGC CGAGTTGAGC GGTTCGGC TGGCCCGCA GCAACAGATG  
GAAGGCCCTC TGCGCCGCA CCGGCCAAG GAGCCCGCT GGTTCCTGGC CACCCTCGGC GTCTCGCCG  
ACCACCAGG CAAGGTCTG GGCAGCCCG TCGTGCTCC CGGAGTGAG GCGGCCGAGC GCGCCGGGT  
GCCCGCTT CTGGAGACT CCGCGCCCG CAACCTCCC TTCTACGAG GGCTCGGCT CACCGTCACC  
GCCGACGTC AGGTGCCGA AGGACCGCG ACCTGGTGA TGACCCGCA GCCCGGTGCC TGAAACTTGT  
TTATTGCAGC TTATAATGGT TACAAATAA GCAATAGCAT CACAAATTC ACAAATAAG CATT TTTTTC  
ACTGCATTCT AGTTGTGGT TGTCAAAC CATCAATGTA TCTTATAAC TTCGTATAAT GTATGCTATA CGAAGTAT



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|--------------------|---|
| <b>Disclaimer:</b> | 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. |
| <b>RefSeq:</b>     | <u><a href="#">NM_001291070</a></u> , <u><a href="#">NM_175178</a></u>  |
| <b>UniProt ID:</b> | <u><a href="#">Q3TY86</a></u>   |
| <b>Synonyms:</b>   | 2810401C16Rik; AI840249; Aifl   |
| <b>Summary:</b>    | Induces apoptosis through a caspase dependent pathway. Reduces mitochondrial membrane potential (By similarity).[UniProtKB/Swiss-Prot Function]   |

### Product images:

