

## Product datasheet for **KN504006**

### Ctu2 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:       | Ctu2                           |
| Locus ID:     | 66965                          |



[View online »](#)

**Components:**
**KN504006G1**, Ctu2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN504006G2**, Ctu2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

**KN504006D**, 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 AGTCCCGAG AAGTTGGGG GAGGGGTGCG CAATTGAACC GGTGCCTAGA GAAGGTGGCG  
 CGGGGTAAAC TGGGAAAGTG ATGTCGTGTA CTGGCTCCG CTTTTTCCG AGGGTGGGG AGAACCGTAT  
 ATAAGTCAG TAGTCGCCG GAACGTTCT TTTGCAACG GGTTCGCCG CAGAACACAG GTAAGTGCCG  
 TGTGTGGTTC CCGCGGGCT GGCCTCTTA CGGGTTATG CCCTTGCGTG CCTTGAATTA CTTCCACCTG  
 GCTGCAGTAC GTGATTCTG ATCCGAGCT TCGGGTTGA AGTGGGTGG AGAGTTCAG GCCTTGCGCT  
 TAAGGAGCCC CTTCGCCTG TGCTTGAGT GAGGCCTGG CTGGGCGCT GGGCCGCCG GTGCGAATCT  
 GGTGGCACCT TCGCGCCTG CTCGCTGCT TCGATAAGT TCTAGCCATT TAAAATTTT GATGACCTGC  
 TCGCAGCCTT TTTTCTGGC AAGATAGTCT TGTAAATGCG GGCCAAGATC TGCACACTGG TATTTTCGTT  
 TTTGGGGCCG CGGGCGGCGA CGGGGCCCGT GCGTCCCAGC GCACATGTTC GGCAGGCGG GGCCTGCGAG  
 CGCGGCCACC GAGAATCGGA CGGGGGTAGT CTCAAGCTGG CCGGCCTGCT CTGGTGCCTG GCCTCGCGCC  
 GCCGTGTATC GCCCGGCCCT GGGCGGCAAG GCTGGCCCG TCGGCACCAAG TTGCGTGAGC GGAAAGATGG  
 CCGCTTCCCG GCCCTGCTG AGGGAGCTCA AAATGGAGGA CGCGGCGCTC GGGAGAGCGG GCGGGTGAGT  
 CACCCACACA AAGGAAAAGG GCCTTCCGT CCTCAGCCG CGCTTCATGT GACTCCACGG AGTACCGGGC  
 GCCGTCCAGG CACCTCGATT AGTTCTCGAG CTTTGGAGT ACGTCGCTT TAGGTTGGGG GGAGGGGTTT  
 TATGCGATGG AGTTTCCCA CACTGAGTG GTGGAGACTG AAGTTAGGCC AGCTTGGCAG TTGATGTAAT  
 TCTCCTTGGG ATTTGCCCTT TTTGAGTTG GATCTTGGT CATTCTCAAG CCTCAGACAG TGGTTCAAAG  
 TTTTTTCTT CCATTTCAAG TGTCGTGAAT GGAGAGCGAC GAGAGCGGCC TGCCCGCCAT GGAGATCGAG  
 TGCCGCATCA CCGGCACCT GAACGGCGTG GAGTTCGAGC TGGTGGGCGG CGGAGAGGGC ACCCCGAGC  
 AGGGCCGCAT GACCAACAAG ATGAAGAGCA CCAAAGGCGC CCTGACCTTC AGCCCTACC TGCTGAGCCA  
 CGTGATGGG TACGGTTCT ACCACTTCG CACCTACCC AGCGGCTACG AGAACCCCTT CCTGCACGCC  
 ATCAACAACG GCGGCTACAC CAACACCCG ATCGAGAAGT ACGAGGACGG CGGCGTGCTG CACGTGAGCT  
 TCAGCTACCG CTACGAGGC GCGCGCTGA TCGGCGACTT CAAGGTGATG GGCACCGCT TCCCCGAGGA  
 CAGCGTGATC TTCACGACA AGATCATCCG CAGCAACGCC ACCGTGGAGC ACCTGCACCC CATGGCGGAT  
 AACGATCTGG ATGGCAGCTT CACCCGACC TTCAGCCTGC GCGACGGCGG CTAATACAGC TCCGTGGTGG  
 ACAGCCACAT GCACTTCAAG AGCGCCATCC ACCCCAGCAT CCTGCAGAAC GGGGGCCCCA TGTTGCGCTT  
 CCGCCGCGTG GAGGAGGATC ACAGCAACAC CGAGCTGGGC ATCGTGAGT ACCAGCACGC CTTCAAGACC  
 CCGGATGCAG ATGCCGTTGA AGAAAGAGGA AGCGGAGCTA CTAAGTTCAG CTGCTGAAG CAGGCTGGAG  
 ACGTGGAGGA GAACCTTGA CCTATGACCG AGTACAAGCC CACGGTGC GCCTGCCACC GCGACGACGT  
 CCCAGGGCC GTACGCACCC TCGCCGCCG GTTCGCCGAC TACCCGCCA CGGCCACAC CGTCGATCCG  
 GACCGCCACA TCGAGCGGT CACCGAGCTG CAAGAACTCT TCCTCACGCG CGTCGGGCTC GACATCGGCA  
 AGGTGTGGT GCGGACGAC GCGCCCGCG TGGCGTCTG GACCACGCC GAGAGCGTGC AAGCGGGGGC  
 GGTGTTCCGC GAGATCGGCC CGCGCATGGC CGAGTTGAGC GGTTCGCGG TGCCCGCGCA GCAACAGATG  
 GAAGGCTCC TGCGCCGCA CCGGCCAAG GAGCCCGCT GGTTCCTGGC CACCGTCGGC GTCTCGCCG  
 ACCACAGGG CAAGGTCTG GGCAGCGCG TCGTGCTCC CGAGTGAGG GCGGCCGAGC GCGCCGGGT  
 GCCCGCTTC CTGGAGACT CCGCGCCCG CAACCTCCC TTCTACGAG GGCTCGGCTT CACCGTCACC  
 GCCGACGTC AGGTGCCGA AGGACCGCG ACCTGGTGA TGACCCGCAA GCCCGGTGCC TGAACTTGT  
 TTATTGCAGC TTATAATGGT TACAAATAA GCAATAGCAT CACAAATTTT ACAAATAAAG CATTTTTTTC  
 ACTGCATTCT AGTTGTGGT TGTCCAACT CATCAATGTA TCTTAATAA TTCGTATAAT GTATGCTATA CGAAGTTAT



|             |                                                                                                                                                                                                                                                                                                       |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RefSeq:     | <u>NM_153775, NR_152823</u>                                                                                                                                                                                                                                                                           |
| UniProt ID: | <u>Q3U308</u>                                                                                                                                                                                                                                                                                         |
| Synonyms:   | 2310061F22Rik; C16orf84; Ncs2                                                                                                                                                                                                                                                                         |
| Summary:    | Plays a central role in 2-thiolation of mcm(5)S(2)U at tRNA wobble positions of tRNA(Lys), tRNA(Glu) and tRNA(Gln). May act by forming a heterodimer with CTU1/ATPBD3 that ligates sulfur from thiocarboxylated URM1 onto the uridine of tRNAs at wobble position.<br>[UniProtKB/Swiss-Prot Function] |

## Product images:

