

## Product datasheet for **KN504164**

### **Cyp4a12a Mouse Gene Knockout Kit (CRISPR)**

#### **Product data:**

|                      |                                |
|----------------------|--------------------------------|
| <b>Product Type:</b> | Knockout Kits (CRISPR)         |
| <b>Format:</b>       | 2 gRNA vectors, 1 linear donor |
| <b>Donor DNA:</b>    | EF1a-GFP-P2A-Puro              |
| <b>Symbol:</b>       | Cyp4a12a                       |
| <b>Locus ID:</b>     | 277753                         |



Components:

**KN504164G1**, Cyp4a12a gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN504164G2**, Cyp4a12a gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

**KN504164D**, 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  
AGTCCCCGAG AAGTTGGGGG GAGGGGTCGG CAATTGAACC GGTGCCTAGA GAAGGTGGCG CGGGGTAAC TGGGAAAGTG  
ATGTCGTGTA CTGGCTCCGC CTTTTTCCCG AGGGTGGGG AGAACCGTAT ATAAGTCGAG TAGTCGCCGT GAACGTTCTT  
TTTCGCAACG GGTTCGCCG CAGAACACAG GTAAGTGCCG TGTGTGGTTC CCGCGGGCCT GGCCTCTTTA CGGGTTATGG  
CCCTTGCGTG CTTGAATTA CTTCCACCTG GCTGCAGTAC GTGATTCTTG ATCCCGAGCT TCGGGTTGGA AGTGGGTGGG  
AGAGTTCGAG GCCTTGCGCT TAAGGAGCCC CTTCGCCTCG TGCTTGAGTT GAGGCTGGC CTGGGCGCTG GGGCCGCCG  
GTGCGAATCT GGTGGCACCT TCGCGCTGT CTCGCTGCTT TCGATAAGTC TCTAGCCATT TAAATTTTTT GATGACCTGC  
TGCGACGCTT TTTTCTGGC AAGATAGTCT TGTAATGCG GGCCAAGATC TGCACACTGG TATTTCGGTT TTTGGGGCCG  
CGGGCGGCGA CGGGGCCCGT GCGTCCCAGC GCACATGTTT GGCGAGGCGG GGCTGCGAG CGCGGCCACC GAGAATCGGA  
CGGGGTAGT CTCAAGCTGG CCGGCTGCT CTGGTGCCTG GCCTCGCGCC GCCGTGTATC GCGCCGCCCT GGGCGGCAAG  
GCTGGCCCGG TCGGCACCAG TTGCGTGAGC GGAAGATGG CCGCTCCCG GCCCTGCTGC AGGGAGCTCA AAATGGAGGA  
CGCGGCGCTC GGGAGAGCGG GCGGGTGAGT CACCCACACA AAGGAAAAGG GCCTTTCGT CCTCAGCCGT CGCTTCATGT  
GACTCCACGG AGTACCGGGC GCCGTCCAGG CACCTCGATT AGTTCGCGAG CTTTGGAGT ACCTCGCTT TAGGTTGGGG  
GGAGGGGTTT TATGCGATGG AGTTTCCCA CACTGAGTGG GTGGAGACTG AAGTTAGGCC AGCTTGGCAC TTGATGTAAT  
TCTCCTTGA ATTTGCCCTT TTTGAGTTG GATCTTGGT CATTCTCAAG CTTGAGAGC TGGTTCAAAG TTTTCTCTT  
CCATTTACAG TGTCGTGAAT GGAGAGCGAC GAGAGCGGCG TGCCCGCCAT GGAGATCGAG TGCCGCATCA CCGGCACCTC  
GAACGCGCTG GAGTTCGAGC TGGTGGGCGG CGGAGAGGCG ACCCCGAGC AGGGCCGCAT GACCAACAAG ATGAAGAGCA  
CCAAAGGCGC CCTGACCTTC AGCCCTACC TGCTGAGCCA CGTGATGGG TACGGCTTCT ACCACTTCGG CACCTACCCC  
AGCGGCTACG AGAACCCCTT CCTGCACGCC ATCAACAACG GCGGCTACAC CAACACCCCG ATCGAGAAGT ACGAGGACGG  
CGGCGTGCTG CACGTGAGCT TCAGCTACCG CTACGAGGCC GGCCGCGTGA TCGCGCACTT CAAGGTGATG GGCACCGGCT  
TCCCCGAGGA CAGCGTGATC TTCACCGACA AGATCATCCG CAGCAACGCC ACCGTGGAGC ACCTGCACCC CATGGGCGAT  
AACGATCTGG ATGGCAGCTT CACCCGCACC TTCAGCCTGC GCGACGGCGG CTAACAGC TCCGTGGTGG ACAGCCACAT  
GCACTTCAAG AGCGCCATCC ACCCCAGCAT CCTGCAGAAC GGGGGCCCCA TGTTGCCTT CCGCCGCGTG GAGGAGGATC  
ACAGCAACAC CGAGCTGGG ATCGTGAGT ACCAGCACGC CTTCAAGACC CCGGATGCG ATGCCGGTGA AGAAAGAGGA  
AGCGGAGCTA CTAACCTCAG CCTGCTGAAG CAGGCTGGAG ACGTGGAGGA GAACCTGGA CCTATGACCG AGTACAAGCC  
CACGGTGGC CTCGCCACCC GCGACGAGT CCCCAGGGC GTACGCACCC TCGCCGCGC GTTCGCCGAC TACCCGCCA  
CGCGCCACAC CGTCGATCCG GACCGCCACA TCGAGCGGT CACCGAGCTG CAAGAACTCT TCCTCACGCG CGTCGGGCTC  
GACATCGCA AGGTGTGGT CGCGGACGAC GCGCGCGCGG TGCGGTCTG GACCACGCCG GAGAGCGTCG AAGCGGGGGC  
GGTGTTCGCC GAGATCGGCC CGCGCATGGC CGAGTTGAGC GGTTCGCCG TGCGCGCGCA GCAACAGATG GAAGGCCTCC  
TGGCGCGCA CCGGCCAAG GAGCCCGCT GGTTCCTGCG CACCGTCGGC GTCTCGCCCG ACCACAGGG CAAGGGTCTG  
GGCAGCGCCG TCGTGTCCC CGGAGTGGAG GCGGCGGAG GCGCGGGGT GCCCGCCTT CTGGAGACCT CCGCGCCCCG  
CAACCTCCCC TTCTACGAGC GGCTCGGCTT CACCGTCACC GCGGACGTCG AGGTGCCGA AGGACCGCGC ACCTGGTGCA  
TGACCCGCAA GCCCGGTGCC TGAAACTTGT TTATTGCAGC TTATAATGGT TACAAATAAA GCAATAGCAT CACAAATTC  
ACAAATAAAG CATTTTTTTC ACTGCATTCT AGTTGTGGT TGTCCAACT CATCAATGTA TCTTAATAAC TTCGTATAAT  
GTATGCTATA CGAAGTTAT



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|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI 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>         | <a href="#">NM_177406</a>                                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID:</b>     | <a href="#">Q91WL5</a>                                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms:</b>       | BC025936; Cyp4a12                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Summary:</b>        | Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics.<br>[UniProtKB/Swiss-Prot Function]                                                                          |

### Product images:

