

## Product datasheet for **KN208599**

### Oct-1 (POU2F1) 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:	Oct-1
Locus ID:	5451
Components:	<p><b>KN208599G1</b>, Oct-1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ATAAATTATGCTAAGTCGCG</p> <p><b>KN208599G2</b>, Oct-1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGATGAGAGTTCAGCCGCGG</p> <p><b>KN208599D</b>, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

#### 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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TTGCCAATGT TTCAACTGCG CGGAAACCCT GAAGAAAGTG CGGAGCACAG GGCACGCGGG CCGCTCACTG
CCTTCCACG CGCCCCACG TTTCTGGCCG CTGCGCTCCT TGCCGTGCTT TTACAATGCC ACAGGCCACT
GGGGGAGACC GGAGCGAAGC CAGGAGGGAA GCAAGGCGGG AGGAAAAGGG AGAAGTGTA GAAGACACAG
GCGCCCGGGA TACTATATA TCTGTTCTG AGCTAGAGGG AGCGCATGCG CCGCGCACAC TTCTGGCGGC
AGGAGAAAGG CGCGCATGCG CAGAGCCGAG ACGAAAAATG AAGCCACAGG TGCCCTGGCT GATTGAGGGC
GCTGCTTTAG CTACCGAAGG GCCACAGCGC CCCGAAGGCG CGTGCGCAGA GCGCGGGAAG GGGGTGGAGC
TCTTCTGAGG GGGCCGGGGC GAACAGAGCC GGCCTCGCGC GCCCCCTGGC GCGCGCCCGG GGAGAGGAAG
GAGCGGGAGG GGGCGGAGAG GAGGGAGGAG GCAAGCAGGG CGGGAGGGGG GAGGGGAGCC AGAGCGAGGG
AGGGTTTATC GACCGGGCGA TTTTGTTAA AATATTCAA ACTCAGGATT ATTATAATTA ACGGCGGGGA
GATGGGGGGC CGGGGAGCAT TGAGCCCCG CCGGGCGCTG AGCGGAGGGG GAAAGAGGCT CGGAGCGGCC
AGGCGGAGGG GGAAGACAAG GGGCAAAGGG GGCTGCGATC CACTGCCCTC CTCCTGCACC CGGCCACCC
CGCCGCCGCT CGCGTCTGC CCGTCGGCAC CGGCCCTCCT CCTCTGCCG CCGCCGCTGC CGCCTCCTCG
CCGCCGTGCC CGAACCCGAG CGGGTCCGCG GCGGGGCGGC GGGGCCGGG CAGAGGGAGA GGACAATAAA
GACATTTTAC ATATTCATAG CTGCTGGGCC GCGGGGCGC AGTAGGGCGC GGGCGGGCGG CCGGGGCGG
GCGGGCGCGG GGTGGGGGGC GTGAAGGGGG ATGGAGGCGG CGGCGAGCAC AATGCCGGG AGGCGGCGGG
GCCGAGCGG ACCCGGCGG CCGGACACCC GCACGCTCT TCCCCGGA GCGGGCCGG GCGGGGGGGC
GCTGCCCGCC TTGGGGGGC GCCCTCAGG CAACCGGGG TGCGCGCGG GAGAGCTCC TGCCCGCGCC
CCGCGCGGGG

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**GE100003**, scramble sequence in pCas-Guide vector



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**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\\_001198783](#), [NM\\_001198786](#), [NM\\_002697](#), [NR\\_037163](#), [NM\\_001365848](#), [NM\\_001365849](#)

**UniProt ID:** [P14859](#)

**Synonyms:** oct-1B; OCT1; OTF1

**Summary:** The OCT1 transcription factor was among the first identified members of the POU transcription factor family (summarized by Sturm et al., 1993 [PubMed 8314572]). Members of this family contain the POU domain, a 160-amino acid region necessary for DNA binding to the octameric sequence ATGCAAAT.[supplied by OMIM, Jul 2010]

### Product images:

