

## Product datasheet for **KN318324**

### Tsc22d3 Mouse 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:	Tsc22d3
Locus ID:	14605
Components:	<p><b>KN318324G1</b>, Tsc22d3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGGTGAGCGGCACTCGGTCT</p> <p><b>KN318324G2</b>, Tsc22d3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGAGCTCGCAGCGTTGGCC</p> <p><b>KN318324D</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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GCCGCGGAAC CCCGCGAGCC GGGAGAAGCG GGGCTGCCGC CGCCGAAGGG CGCGCGCGCT GCGGCTCTCT
CTCGTCTCT CGTCCCTGG CCGCCCGCCC GCCCTTCTG CCGCCTCGCA CGCAGGTCCG GCCGGAGCCA
CGCGCGCACT TGGGAAAGTT GGGAGTGCCT TCGGGTGGG GGGGGGGCGT GGGGGGGGA CGCACGGGA
TCCTCCGGG GAGGGGACGG GGAAGAGGGG GGCCGCCGG GCTGCCGAG CAGGGGAGG AGGAGGAGGA
GGAAGTGAG CCGCAGGAG CGCTGGGAG TGTGTGTTA GCTGTTTCTA TTCGCACCC GAGCGTCCA
ACCAGAAGGG GGCCGAGCC GACCCGCGGC GGGCACGGCT TTTTTTTTTT CTTTTCTTT TTTTTTTCT
TTCTTTTTT CTTTTTTTT TTTTTTTTT TTAAGGCGCT AATTTCTCA ACTTTGCCG CAGCTTGTT
TTCCGGGCAC CCTGGAGTCC CAAAAGGCTA GCTCCGAGG TGCGCACCTG CCGGCCGCC CCGACCTCC
TGAGCAGGCC GCCGCCCG CTGCCTCAA GCCGAGAAG AGCGGGGAGA GCCCGGGCAG CCCCTTCGTG
AGCAACTTTC GGCAGCTGCA GGAGAAGCTC GTCTTCGAGA ACCTCAACAC TGACAAGCTG AACACATAA
TGCGCCAGGA TTCCATGGAG CCCGTGGTG GCGACCCCTG CTACCTGATC AATGAGGCA TCTGCAACCG
CAACATAGAC CAGACCATGC TCTCCATTCT ACTTTTCTC CACAGGTGG TGGCTGGCA GAAGGACCTC
GAAAGTGCC CTACGGGATC TTTTCTCTG ACAGGTGTG GGGTGGGGT TGGGGGGGAG ACACACCAGC
AAATTCCAG GGGACATGG GGTGGGGGG CTCTAGGCT GTCATGAATA GGAGACCTCT TAGCTAGCTA
GAGCCTACCA GAGCTCACAG CATTCTAGCA TCTGTAAGTG TGTTTTTTGA ATGGAGCCTG GAAAGGCTTG
CAAACCCCG GGCCACAAA ATGGGATGAC TCCATATGG TTGAAAGTAA CTGTACGTGC ACCCTACATT
TTCTGTAGTC CTTGAGACAG TTCTGCCATG GGCTTCTCT GGAATTTGAG TTCCACCAA CTCAGTGGGA
CTGAAACTAG

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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\\_001077364](#), [NM\\_010286](#), [NR\\_122039](#)

**UniProt ID:**

[Q9Z2S7](#)

**Synonyms:**

DIP; Dsip1; Gilz; Tilz3; TSC-22R

**Summary:**

Protects T-cells from IL2 deprivation-induced apoptosis through the inhibition of FOXO3A transcriptional activity that leads to the down-regulation of the pro-apoptotic factor BCL2L11. In macrophages, plays a role in the anti-inflammatory and immunosuppressive effects of glucocorticoids and IL10. In T-cells, inhibits anti-CD3-induced NFKB1 nuclear translocation. In vitro, suppresses AP1 and NFKB1 DNA-binding activities (By similarity). Isoform 1 and isoform 4 inhibit myogenic differentiation and mediate anti-myogenic effects of glucocorticoids by binding and regulating MYOD1 and HDAC1 transcriptional activity resulting in reduced expression of MYOG.[UniProtKB/Swiss-Prot Function]

**Product images:**
