

## Product datasheet for **KN203377RB**

### TOE1 Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	TOE1
Locus ID:	114034
Components:	<p><b>KN203377G1</b>, TOE1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AACTGCGCCATCGTCACTGT</p> <p><b>KN203377G2</b>, TOE1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GACGGTGAGCGGCTTCCCAG</p> <p><b>KN203377RBD</b>, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.</p>

Homologous arm and RFP-BSD sequences:

pUC vector backbone in gray; Left arm sequence in blue; RFP-BSD in green; Right arm in violet

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CTTCCCTACC AATCGGTCGC TCTTACACC TGGGCAGCCT CCTCCGATGG CCCACTCCCC GCCTCTTTCA
CTTTCTGGAG ATCACTGAGC TCTCCATCCT CTCTGGGAAT TTACCGATGC CCAGAACGCC CTTCTTTCCC
CCACACGACC CTCTCCTAGT CTAACTCCTG GGCGTGCTTT AAGCTCAGCT CAGGCAGCGT CACCTTCTCT
GGAAAGCCCA AACCCAGCCA CCCCACTACC CGCTACCCGC GGCCACGCT GATGAAGACA GCAGAACACG
GAGGCCCCGC GTTCCCGCCG CGAGAGCAGG AGAGAAAGAT TACCTCCCGC GAGCTAGC GCGCCCGCT
TTCCGGCGCA CTCCAGGGGG CGTGGCTCGG GTCCACCCGG GCTGCGAGCC GGCAGCACAG GCCAATAGGC
AATTAGCGCG CGCCAGGCTG CCTTCCCGC GCCGGACCCG GGACGTCTGA ACGGAAGTTC GACCCATCGG
CGACCCGACG GCGAGACCCC GCCCATCCC CGACTGCCTG AACCGCGCCA GGAGACGGAC CGCAAGTCCA
GCGTACCAC AGACGACTCA GGCGGGAGAC GAGCGGTGTC CCTCTGCGCT CTGGGAGAGG GGAAGGCCTC
GGGCTCATAG TTCTAGAGG TCCTCAAGCT TCAGAGGACT GCTCCTCCG CCTGAACTAG CCACGAGGAG
ACTACAAGTT CCGTTGTACA CCGCGGCTCC GGCTGCAAAA GCCTGGAGCG TTGGGAGCAT GGGGCTGATG
GAGGCATGGC GGGAGATGTA GTCTGGAGCT CATAACGGTT AGTAGTAATA GTTGTGATTC AGTTCAGTGG
AGTGGATTGA GCGTTGTGAT CCAAAGGAAG GTAGGACGTA TTGGGAGCTC TGGTGTGGGG CACTGCCAGG
CTCTGGGGCT TACTGGGAGC TGTGCTTGT GCGCTGGGG CACCATGAGA ACAGTAGTAT GGATCCCTGT
GGGATATTAA GGGAGCTGAG ATCCTCAAGC CCTACAAAAT GTTTCCTGCA GGACATGGGA AAAAAGAATC
AAAGGTCGTC TAGTCCAAC TTCTCCTCTA CAGATTGTGA AAGCGAGGTG GGAAGTAATT TACCCAGGCT
CATACAAGCC AGTAGAAGAC TCAGGCTTCC TCTCCCCAAA TTCAGGGCAT TCTCCACTCC AAGGCCTGTG
TGTAGAACAC

```

**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\\_025077](#)

**UniProt ID:** [Q96GM8](#)

**Synonyms:** FLJ13949

**Summary:** Inhibits cell growth rate and cell cycle. Induces CDKN1A expression as well as TGF-beta expression. Mediates the inhibitory growth effect of EGR1. Involved in the maturation of snRNAs and snRNA 3'-tail processing (PubMed:28092684).[UniProtKB/Swiss-Prot Function]

### Product images:

