

## Product datasheet for **KN209190**

### MIRO1 (RHOT1) 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:	MIRO1
Locus ID:	55288
Components:	<p><b>KN209190G1</b>, MIRO1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAACGTGAGTCCGCACCCTC</p> <p><b>KN209190G2</b>, MIRO1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAAAGACGTGCGGATCCTGC</p> <p><b>KN209190D</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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TTTTCTGACG GCCCTATCCA ATAACGTGGG GACGCAGCTG AAAACCATGC AAGCTGATCG CTGCCCTCCC
GGAGTTTATG GTCTGGTGAG AAGATCCCTG CTCTGAGTCA CTGCCAAGCT CTAGCTATGT GACTTTGAAC
AGGGAATTTT TGTCCTATC TATAAAATAA ACGGGGTAA ACCAGGGAAT CCGCCATTCA AATTCCTGGC
CCAAGTGTCT CCGGGGTCGC GGTGCCAAA GGAGGGTGGG CGAGGCTCCC TGGGCTGCG CTGCGGCGGC
CTGACAGCGG GAGCGCTGTT CCGGCGCAGA GCGCGTTCGC GTTCCGAAAG CGCGTGTCCC TCGCCGCGTG
CCGTCGTCCC CGCCGCCGCC GCCGCCGCCG CCGCCGCCGC CGCCGCCGCC GCCGCCGCCA CAGCCCGCTG
GGCCGGAGGA GCGGAGCTG GCGCTGTCCC GGCTCTCTTG CGGGGAAGCA ACTGAGGGGG CGGCGCGGCG
GGCCCCGCGC GCCGAAGAGG CTGGCAGGTG GCGCCGTGGG GTGGGTGCTC CTGGTGAGAG GAGTCCACTC
CGTGCGTGCG GGCGGAGGCC GGCCCCGAG AGCCGCCGAC TCCCTGCCCT CCCTGCCCT GCAGCCCTG
TCGCCCCTGT CGCCCCTGCA GCCCAACCT TTGCAGCCC GGCCCTTCTC GCGCCTACA GCTCCGCTCG
CCTTTCTCG CGTTCCTAGG CCTCCAGCC CTTCACTCT TCTCTTTTG CTGGCCGCC GCGGCCCTCA
CCCTGTCACC TCACCTGGC CCTCCAGAGA TCTCCTTCC CTGTTCCCA GCCGCTCTC CAAGCCATGT
CCCTATTAG CTAACCGCC CGACCTCATC CCTCCGAAG TTCTCTCTC CTTTTCTCT TCGAACCTG
TCCTTCTGG CCTCACAGT TCCAGGCCG CCTCCTTCA GACCTTCTG TCTTCTGGAG ATTCCCTAT
CACTGCCAGG CAGGTGCTG AATAAGCAGA CTGACCAATA GGGATTGCGT GAACCGGCTC CCGGGGAAGC
TGGGGGAGG GTGCAGAACT ATTCGACTTG TGGGCAAGG CAGGTTTCTG CATTTTTTG GCACTCGCAG
TCTTCACTCT CTCTATGTAT TGACATTAAG ATATGAGTAG TGGAAAGGC CGGATCCTTT TTAGCAGTAC
TTGTACTTTG

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



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**RefSeq:** [NM\\_001033566](#), [NM\\_001033567](#), [NM\\_001033568](#), [NM\\_001288754](#), [NM\\_001288755](#), [NM\\_001288758](#), [NM\\_018307](#), [NR\\_110083](#)

**UniProt ID:** [Q8IXI2](#)

**Synonyms:** ARHT1; MIRO-1; MIRO1

**Summary:** Mitochondrial GTPase involved in mitochondrial trafficking. Probably involved in control of anterograde transport of mitochondria and their subcellular distribution.[UniProtKB/Swiss-Prot Function]

### Product images:

