

Product datasheet for **KN313129**

Pex5 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:	Pex5
Locus ID:	19305
Components:	<p>KN313129G1, Pex5 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGGGTGGCCAGCTTCATCAG</p> <p>KN313129G2, Pex5 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCTGCTGCTGAGGCTCCCGG</p> <p>KN313129D, 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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GGTCGGACGG TCGGCCCGC GACGGCGAGC ATTGGAGCCT GGGGGCGCGG GGTCGAGGCC CGTAAGTCCC
CGCCGCTGCG GTGGCCTCGT GGGACGGGGT CGAGGCTGGG GCGACGGGGC TGGGGGCGCG GGGCGCTGGG
CGGGGACGGG CGCGGCCGGG GAGGGGGCTC AGGTGACACG AGCTGGGATC GGGACCCGCA GCTGGCGCCT
GACCGGGGGT GTGGGTCCCG GTGTACGGTG GAAGGCGTCC CCGCTGTCCC TCGTCAGGTT AGAGTTCGGG
TCTAGCCGTG TTTATGATG GCTCCCCGTG CTCCCCAGGG GTCCAGGCC TTTTGTAGAG CTGCTGTTGG
CGGGTGGTGT CTGAGCTGCC GTCCGCTGGA GGGGAAGCCC GAGCCGAAAG CAGCGTTTCG AGTGGGAAGG
CAGGACACAG CCTCCTCTTG GACTCCAGAC ACACCTCGGG GGGTGGCCCC GGGGGCCTGG CCCTTGTGGA
GCCGTCGTGG GCCCATCTGC TCTAGATAGG GCCTGAGGCG TCGTGGGGA AAGTCTGGCT TCCCGACCAC
AGTTCTAATC TTCTGTCCAT CAGGGAAGCT GCTGGTCACC AGGAGAGCCT ATTTCTTCCA CCTGACAGCT
GCTTTCTCTG TGTTAAAGTA ATAGCAGTCA CCATTGAGTA AACTGGAGT GAGCCTGTG CGGCTTTACA
CAGACAAGGA CTAATTTTT ATAGACAAAG AAGCTGAGGC TTTGTGAAG CTCTTGACTT GCCTCAGGCC
ACCTAAGCAG TAGAGTTAGA GTTGGGTTGT AGCCTGCTAT TGTCTCTTC CTCTTATCT TAGGTTTCCA
AGCCTTTGGG AGTAGGAAT GAAGACGAGG TAAACAGAGC AAGTTTCTTT TCTGTCTTTT TTTTTTTTTG
GGGGGGGGG TTGTGGTAT TTTTTTTTTT TTTTAAATCA GTCCACTCAT ACTTCAGTCT TTGAATCTC
TTTACCAAT GAGATTGCTT GCCAATGTTT TCGTCTACTT TTTGGGTAT TTTTCTGGTT TCCAAATTTA
CAGATAGATT TTTTTTTTTT TTTATTTATC TCCAGTTTTT GTTTCTCTGT CCAACATCAG TGGGCCCTGC
CTCTGGCTGA GGCCCTCTGA TCCTAATGTT CATCCGACCA TCTCTCTGTA ATAGTTGGTG TCAGAATTC
TGCAGGACCA

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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_001277330](#), [NM_001277805](#), [NM_008995](#), [NM_175933](#), [NM_001360570](#)

UniProt ID: [O09012](#)

Synonyms: AW212715; ESTM1; PTS1R; Pxr1; X83306

Summary: Binds to the C-terminal PTS1-type tripeptide peroxisomal targeting signal (SKL-type) and plays an essential role in peroxisomal protein import.[UniProtKB/Swiss-Prot Function]

Product images:

