

Product datasheet for **KN215375**

LMX1A 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:	LMX1A
Locus ID:	4009
Components:	<p>KN215375G1, LMX1A gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCAAAGCGCGATCGACACCT</p> <p>KN215375G2, LMX1A gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGTGTTTCAGGCCGTGCGTCC</p> <p>KN215375D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p> <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</p> <pre> CGCACCCCAA CAGAGCGCAG CGCCAGGAGT CCAGAAGCGG GCGGGACGCC CTCCGGGTCC CTTACAGTGC CCTTTCTCGA CTGGGGCAG GTGAGGGCCG CAACGGGGCG GCTGGGACGC GGGATTGCAA ACCCCATCGT CCCGCGTGCC TGGACCCGGT CGCTCGAGGG AGGGTACCCA CTCTTTATAT ACCCAATATA CCCCAGTAGC TGCCTTCTG CAGAGACGTC CCGAGGGCCC ACCTTCGTAT AGGTGGGGC GGAGTCGGAT TCGGGATGGA AAACTGGGG CAAGGGATGT AGGTGGGGT GAGGGGGCA GGAGAAGGAG AAACGCAGT GGGGGCGGA GGCCTAAGTA CATAACGTGT TGACTIONAAG TGAATCAGA TCAGCCAGAG CAGTTCGCTG TGACTIONTCT CTCCTCCAC CCTACATTCT CTTGGCTGGA CCTATCCTC CTGGCTGATT CTGGTCGCC TGGACTCTC CTCAGTTCT TCCAGGAGT GCGGTGGCTG CTGGCGCGA GTCCAGCGG GCACGGACGT CAGACGCATC GTTTCTTCT CTCTACAGT CCTCCCGCC CGGCCGAAC TGGGCGCACT CTCTTCCCG TTGGCGCTGA GCTCTGGAG CCCGCTCTCT GGGACCTGGT CCGCATAGG GAAGCTAGC CCCCTCTCA TACTAAAT TGAGCCCAT CACTATCTGT CCGTCAGTGC TTGTGGGTCG TCCCTACCA AATAATCCA ACAAGCCGCC CCAGGCTCA CGACTGGC ACCGAATTCC CCAAAGCCG GAGGGCGGG CGAGCTTGT CGTAGGCGTC TGAGTGGCAA GTGATAAAA ATACCCAGG CTGGATTTT AATCTCGAG CTGATCGAC TCTATAAAT GCCGCCCTCT TCTCGCGCC TAGAGGCAAT AGCATCCGAG ACCCGAGGC TGGAGCGCC AAGTTCGAGG AGGCTTCTCT CCCCACCAA CTCAGCCCC AATTTAGCC ATGGGCAAG CCGAGAGAGA CTTTTCTGGG CCAGTAGGCA ACGCAGCGG GGGATTAGAC CGCGCGCTG GGCCCTAGG TCCGCTTAA TTAAGTGGAG CTGGATGTCG GGTCTGTGG GTCCCCCTC ACAACTCCT TGCAGCGACA GAGGAGGAGC AGCGAGTCAA GGACCCCGGA </pre> <p>GE100003, scramble sequence in pCas-Guide vector</p>



[View online »](#)

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_001033507](#), [NM_001174069](#), [NM_177398](#), [NM_177399](#)

UniProt ID: [Q8TE12](#)

Synonyms: dr; dreher; LIM homeobox transcription factor 1 alpha; LMX-1; LMX1; LMX1.1; Lmx1.1; MGC87616; MGC129356; MGC129357; OTTMUSP00000022889; OTTMUSP00000022890; shaker short-tail; sst

Summary: This gene encodes a homeodomain and LIM-domain containing protein. The encoded protein is a transcription factor that acts as a positive regulator of insulin gene transcription. This gene also plays a role in the development of dopamine producing neurons during embryogenesis. Mutations in this gene are associated with an increased risk of developing Parkinson's disease. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2012]

Product images:

