

Target Domain	sgRNA ID	Sequence
LSD1-NT	sgNterm-1	CGCGGAGGCTCTTTCTTGCG GGG
	sgNterm-2	CCGGCCCTACTGTCGTGCCT GGG
	sgNterm-3	GTCGGACCAGCCGGCGCAAG CGG
	sgNterm-4	CCGCAAGAAAGAGCCTCCGC GGG
LSD1-SWIRM	sgSWIRM-1	GGACTTCAAGACGACAGTTCT TGG
	sgSWIRM-2	TGAGAAGTCATCCGGTCATG AGG
	sgSWIRM-3	CTAAATAACTGTGAACTCGG TGG
	sgSWIRM-4	CACAGTTATTTAGAGCGTCAT TGG
	sgSWIRM-5	CGTCATGGTCTTATCAACTT CGG
LSD1-AOD1	sgAOD-1	AAGGTAATTATTATAGGCTCT TGG
	sgAOD-2	GCTCGACAGTTACAAAGTTTT TGG
	sgAOD-3	CGAGTTGCCACATTTTCGCAA AGG
	sgAOD-4	GTCCGTTGGCTTCATAAAGT GGG
LSD1-TOWER	sgTower-1	GAACTCGGCAGTAATATCTCT TGG
	sgTower-2	AACTCGGCAGTAATATCTCT GGG
	sgTower-3	GGATCTGACCGCCCTATGCA AGG
	sgTower-4	ATACCACACCTTGCATAGGG CGG
LSD1-AOD2	sgAOD-5	TAAAGGTTTGACTCGTGGAG CGG
	sgAOD-6	GGTGGCACAAACTGAACGGCT TGG
	sgAOD-7	AAAGGTTTGACTCGTGGAGC GGG
	sgAOD-8	GTCAATTTGTTCCGGGCATGT TGG
	sgAOD-9	GTGTTTTGATCGGGTGTCT GGG
	sgAOD-10	TGCCCCAACAATTGACACT TGG
	sgAOD-11	TGTGATTGTTGGCCGATGCC TGG
	sgAOD-12	ATACTGTTGGCACTAGTGGC AGG
	sgAOD-13	GCCACTAGTGCCAACAGTAT TGG
	sgAOD-14	TCGTTGGCGTGCTGATCCCT GGG
	sgAOD-15	AAGAACTGTGGTGTCTCGT TGG
	sgAOD-16	CTGGCGAGGCAGCGTATACAT TGG
	sgAOD-17	CATGTATACGCTGCCTCGCC AGG
BCL6	sgRNA	CAGTCAAGATGTCTCGACTC CGG
Supplementary Table 1		
LSD1 targeted CRISPR sgRNA guides		
The highest scoring <i>LSD1</i> targeting sgRNAs cloned into lentiviral construct pLKO5.sgRNA.EFS.GFP (see Fig. 5).		

Genotyping	F	R
B6.129-Kdm1aTm1.1Sho/J	GCTGGATTGAGTTGGTTGTG	CTGCTCCTGAAAGACCTGCT
Wild type	TGTTGGGACAAACGAGCAATC	GTCATGGCAATGCCAAGGTCGCTAG
Cre allele	GGTGGCTGGACCAATGTAAATA	GTCATGGCAATGCCAAGGTCGCTAG
qPCR	F	R
Kdm1a_int-ex5	AATGTCACCAGCACCACAAA	CTTCGGCATCTACAAGAGGA
Kdm1a_intr1	GTGCCATTGAGCCATATCCT	GATCTGATGCCCTCTTCTGG
qPCR_hHPRT	TGACACTGGCAAAACAATGCA	GGTCCTTTTCACCAGCAAGCT
qPCR_hBCL6	GACTCTGAAGAGCCACCTGC	CTGGCTTTTGTGACGGAAT
qPCR_hLSD1	GTGCAGTACCTCAGCCCAAAG	CCGAGCCCAGGGATCAG
qPCR_hAICDA	AAAATGTCCGCTGGGCTAAG	GGTCCCAGTCCGAGATGTAG
qPCR_hIRF4	AGAAGAGCATCTTCCGCATC	CCTTTAAACAGTGCCCAAGC
qPCR_hEBI3	GTCCTTCATTGCCACGTACA	AACAGCTGGACATCCGTGA
qPCR_hGPR132	ACACGTTGTTGCAGGTCTTG	GAATGTGAATGTGCCAATG
qPCR_hARID5B	CAGGATGCAGCAGAGGTGAG	TGGGTCTACTCTGGATGCCA
qPCR_hCCR6	TGTGACGGCTGCAAATTTGG	GCAGGAAAGCCAGGACTTCT
qPCR_hCDHR3	ACACTATCTTTGATGGAGAAGCC	CTGGTGGCTGGACTCTTTCC
qPCR_hGFI1	GGGTGATGAGGTTGGAGCTC	GGCAAGAGGTTCCACCAGAA
qPCR_hSMAD1	TGCTCAGTTATTGGCACAGTCT	ATCCTGGCGGTGGTATTCTG
qChIP primers	F	R
ChIP_hARID5B	GCTCCATGCTGAAACTTGCC	AAGATCGCACCCTGCACTC
ChIP_hCCR6	GGCAGCCTGAGAAAGAGGAA	TGAATGTGCACCTGAGGGTC
ChIP_hCDHR3	CCTCAACCATCTGTGTGGCT	GCAGAGAGGGGTTGTGAAGG
ChIP_hEBI3	CAAAGCCCAAGTCCTTCCTA	AGAGTGAGCAAGGGGGAGA
ChIP_hGFI1	CGCTTACCAGGTGGCACTT	GGGACAGGTTTTACCGCTGA
ChIP_hGPR132	CTACTAGCGGGAAAGCGAAA	CAGGCAAAGTGTTGACGAAA
ChIP_hSMAD1	TCAGACTCTGGAGATGGGGA	TCGACTTGATGACTTGCCT
ChIP_hCDKN1A-5Kb(NEG)	GCAAGTTGGTCAGGGACACT	GCAGTGAGGAAATGCTGTGA
ChIP_hBCL6_intr9(NEG)	AACCTGCAAAACATGGTTATTT	AATTTGCCCAAACAGCAAGT
Supplementary Table 2		
Primer sequences used in this study		
Forward (F) and reverse (R) primers used for genotyping, qPCR and qChIP assays.		