

# Additional file 3:

## Protospacer sequences

Name	Gene	Chr	Protospacer Sequence
sgHpd1	<i>Hpd</i>	chr5:-:123178208:123178239	ATCAACTACACTGGCCGTTTCTTACCTGGATT
sgHpd2	<i>Hpd</i>	chr5:-:123175950:123175981	TTGTTTCCCCTCCTCCCAGGAATATGTGGACT
sgPcsk9	<i>Pcsk9</i>	chr4:-:106463790:106463821	CGGCGCTGGTGCCAGGACGAGGATGGAGATT
sgRosa26	<i>Rosa26</i>	chr6+:113076048:113076079	TGCAGATCACGAGGGAAGAGGGGGAAGGGATT
sgPcsk9_OT1	<i>unannotated</i>	chr6:-:24894402:24894433	GGCGCTGTGTGTCTGACGAGGAACTGGACT
sgPcsk9_OT2	<i>Rnf214</i>	chr9+:45868164:45868195	AGGAACTGGAGCAAAGGACAAAggagatggtt
sgPcsk9_OT3	<i>Pcsk9</i>	chr4:-:106463561:106463592	AGGTGCGGGAGGCGAGGGCAAGACTTAGTGCT
sgPcsk9_OT4	<i>unannotated</i>	chr16+:47959998:47960029	AGGGAACCTGGGACCAGGACAAGGAGCTTGATT
sgRosa26_OT1	<i>Ptcd2</i>	chr13:-:99335395:99335426	gtcataacaccaggaagaggaggcctggatt
sgRosa26_OT2	<i>unannotated</i>	chr1:-:96248259:96248290	TGGCAGAACagaggaagagagggggaggat
sgRosa26_OT3	<i>Tctn3</i>	chr19:-:40606453:40606484	AGCAGATCAGAGGGAAGAGGGAGGGGTGGAGA
sgRosa26_OT4	<i>unannotated</i>	chr3:-:121042039:121042070	TACACATCTCTGAGGGTGATGGGCTTGGGGCT
sgRosa26_OT5	<i>unannotated</i>	chr10:-:8135358:8135389	TGCAGAGGTTTACAAACggggggggggggggg
sgRosa26_OT6	<i>Sergef</i>	chr7:-:46544656:46544687	gccagaagaccaggtaggacttgacgacaag

## TIDE Primers

Target Site	5' Primer	3' Primer
sgHpd1	GGCAGGTAGTCGAACATTCC	CAGCCGTGGTAACTGAACA
sgHpd2	CTGTGGTGTGCATGATGTC	CAGCAAATAACCAGCGG
sgPcsk9	GGCTCCCGTTCTCTCTCTCT	CGCTAAATCGAGGCCTACAG
sgRosa26	TCAGTTGGGCTGTTTTGGAG	TAGGGGTTGGATAAGCCAGT

## Deep-sequencing Primers

Target Site	5' Primer	3' Primer
sgPcsk9	ctacacgacgctctccgatctGCTACTGTGCCCCACCGG	agacgtgtgctctccgatctCTCATCAGCCAGGCCATC
sgPcsk9_OT1	ctacacgacgctctccgatctGTGAGGTGCCAGAGTGGTGT	agacgtgtgctctccgatctGGCTGTCAGGGTGAGAAGTG
sgPcsk9_OT2	ctacacgacgctctccgatctCGACAAAAGAGATGAGGAGAAAA	agacgtgtgctctccgatctTGAAGTCAAGTCCTTATGCTTGC
sgPcsk9_OT3	ctacacgacgctctccgatctCCTCCCCATCACTCTGTG	agacgtgtgctctccgatctTCTAGCCGTCTGGTGGTCTC
sgPcsk9_OT4	ctacacgacgctctccgatctTTTGAAATGCAATCATAGCACA	agacgtgtgctctccgatctGAGACAGTAGAGCAGAATGAAGGA
sgRosa26	ctacacgacgctctccgatctCTTCTGAGGACCGCCCT	agacgtgtgctctccgatctGCCTTTAAGCCTGCCAG
sgRosa26_OT1	ctacacgacgctctccgatctCACTGGCTTGGAACACACAA	agacgtgtgctctccgatctGCCACGGTTTCAGAAAGTA
sgRosa26_OT2	ctacacgacgctctccgatctTCTCTGCCATTTCTCTTCC	agacgtgtgctctccgatctAAGCCCATGATTTTGTGAAA
sgRosa26_OT3	ctacacgacgctctccgatctATGGAGAAGCCTCCCTTAC	agacgtgtgctctccgatctCCCTAAGTTTAACCCTCAGCA
sgRosa26_OT4	ctacacgacgctctccgatctGACAAATATGAGTTTTACTACCAGGA	agacgtgtgctctccgatctCGTCTTAATGAGCCCGATCT
sgRosa26_OT5	ctacacgacgctctccgatctTCAGGAAACACTTCCGCTTC	agacgtgtgctctccgatctCCGAACATCAGGATGTGAAA
sgRosa26_OT6	ctacacgacgctctccgatctGAGCTTTCTGCCTCTGTGCT	agacgtgtgctctccgatctGGAGGAGGTGCTATCTGTGC