

**Supplementary Table 1.** Sequences of guide RNAs used for gene knockouts.

AAVS1 “safe harbor” control	CUCCCUCCCAGGAUCCUCUC
MYB knockout gRNAs ##1-3	CAGCAUAUAUAGCAGUGACG GAUGGGCUGCUUCCCAAGUC AUGAUUAGUUACCUCUCC
IRF8 knockout gRNAs ##1-2	AGUGACGGACCGGUCCCAAC CGGAUCCCUUGGAAACACGC
MEF2C knockout gRNAs ##1-2	GACAAACUCAGACAUCGUGG GAGUUUGUCCGGCUCUCAUG
MEIS1 knockout gRNAs ##1-3	GUGCUAAGAGAGGGAAGAGG CGCGAGCCGGGGUGGCGGG UAUAGCCGUGUUCGCCAAAC
CIITA knockout gRNAs ##1-3	CACAGCUGAGCCCCCACUG GGCUCCUGGUUGAACAGCGC CCCCUAACAUACUGGGAAUC