

Study Arm 4  
Negative Cont.  
Saline

Study Arm 3  
Positive Cont.  
AAV5-Cre

Study Arm 1  
Experimental  
AAV5-guideB-SaCas9

Study Arm 2  
Experimental  
AAV5-SpCas9 +  
AAV5-guidesA&B-GFP

blank

primers  
detect:

SaCas9

SpCas9

GFP

Control

+ airway editing  
detected  
by red cells

\* Editing  
detected by red  
cells, but not in  
airways

- - - - - - - \* \* \* - - - + + + + + + - - - - - -

mouse 2844 2846 2850 2851 2863 2864 2845 2847 2852 2864 2868 2848 2866 2853 2854 2858 2867 3305 3307 3309 2857 2874 2875 2849 2855 2856 2869 3301 3302 3303 3308