

CRISPR interference

VGER, working in collaboration with the Magnuson Lab, has successfully used *piggyBac* transgenesis to heritably express guide RNAs targeted to the promoter of a gene. When these mice are interbred with a mouse that expresses a dCas9-KRAB fusion protein (Yoneshiro et al., 2019), a 97% reduction in targeted gene expression is observed. If you are interested in using CRISPR interference or CRISPR activation technologies to modulate the expression of a gene or genes of interest to you, please directly contact Dr. Magnuson to obtain additional details and to weigh the pros and cons of this approach with Cre/LoxP.

Keywords: [interference](#) [knockdown](#) [knockdown gene expression](#) [Gene Knockdown Techniques](#) [CRISPRi](#) [gene expression](#)

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