

Conventional Point Mutation

Conditional Point Mutation

Advantages

+
Your target gene
only expresses
mutant sequence

+
Your target gene
initially expresses
wild-type sequence

+
**You control the
switch to the mutant
sequence**

+
**Get more research
out of your model -
focus on specific
tissues one at a time**

Drawbacks

-
Expression of
mutant sequence
can have unwanted
effects on mouse's
health

-
Mating with Cre
lines is required to
control tissue-specific
expression