

DNA

Transcription

Translation and beyond

1

Wild type gene

ATGCTC

2

Add a gene

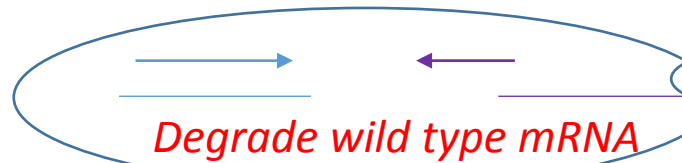
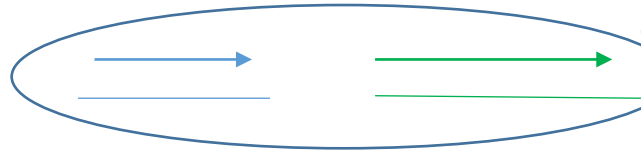
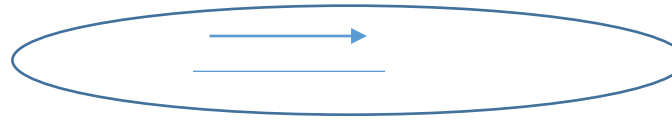
ATGCTC + Transgene

3

ATGCTC + RNAi construct

4

ATCTC + CRISPR construct



Wild type protein and phenotype

Wild type + transgenic proteins and phenotypes

No protein, no phenotype

**Non functional protein or different protein
= no phenotype or different phenotype**