

## UPDATED TACONIC ONE-LETTER GENOTYPING CODE

- M** = Mutant ho**M**ozygote (for alleles not associated with, or derived from, floxed conditional alleles)
- T** = Conventional he**T**erozygote only (e.g., progeny from a M x W cross; non-cre-LoxP) and Conventional hemizygote
- W** = Wild type (+/+)
- C** = Carrier (at least one allele is present, cannot tell if two alleles are present)
- F** = Conditional allele homozygote (e.g., **F**lox/flox)
- L** = Conditional allele heterozygote with wild-type (f**L**ox/+)
- D** = Conventional, recombinase-derived endogenous gene null **D**eletion homozygote
- R** = Hete**R**ozygote carrying wild-type and recombinase-derived endogenous gene null deletion alleles (e.g., from W x D)
- P** = Conditional allele com**P**ound heterozygote (floxed conditional allele/recombinase-derived conventional null) (e.g., from F x D)
- Q** = Conditional allele compound heterozygote (floxed conditional allele /non-recombinase-derived conventional mutation or null) (e.g., from F x M)
- I** = Two Conventional allele compound heterozygote (Conventional allele 1/Conventional allele 2) (e.g. from 2 different RNAi alleles in Gt(ROSA)26 that are not conditional or other null D1xD2or T1xT2)
- S** = Two Conditional allele compound heterozygote (two different floxed/frt conditional alleles L1xL2)
- [F]** = Targeted allele homozygote (e.g., **F**lox-neo/flox-neo) **Note:** Brackets are part of the code!
- [L]** = Targeted allele heterozygote with wild-type (f**L**ox-neo/+) **Note:** Brackets are part of the code!
- R//L** = cellular mosaic, +/Cre derived null (the **R**) and +/flox (**L**)
- U** or **?** = Unknown or Untested
- Correlation with Artemis genotypes:**
- Conditional (“Cond”):** could be **W, F, L, P, Q, S** (note lack of **M** and **T**)
- Conventional (“Conv”; synonym is “constitutive”):** could be **W, D, R, P, I** (could be **T, M** if conventional allele is NOT derived from a conditional allele—i.e., is a “standard” knockout)
- Targeted (“Targ”):** (1) When used for floxed alleles, could be **[F]** or **[L]**. These alleles still contain the selectable marker (e.g., they have not yet been crossed to flp deleter for removal of selectable marker). (2) When “**Targ**” is used by Artemis for Cre or Flp transgenes (i.e., not floxed alleles), it usually means Cre (or Flp) sequences are present (i.e., **T, M, or C**)