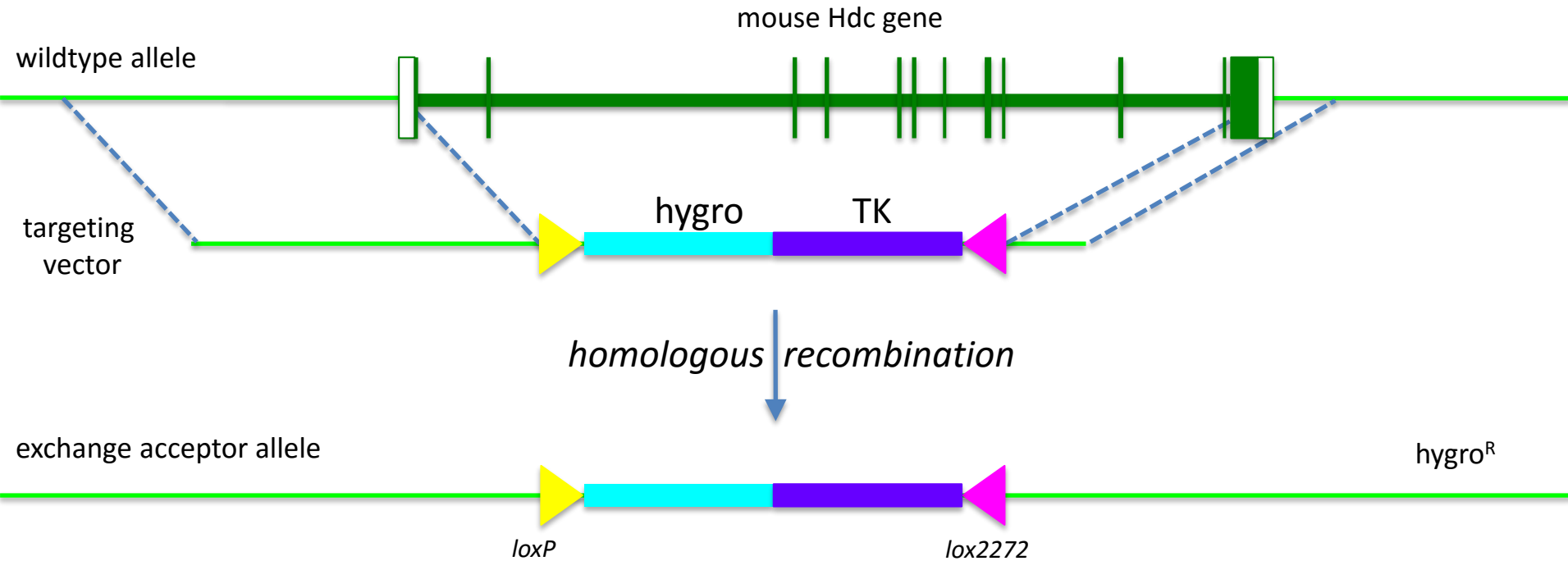
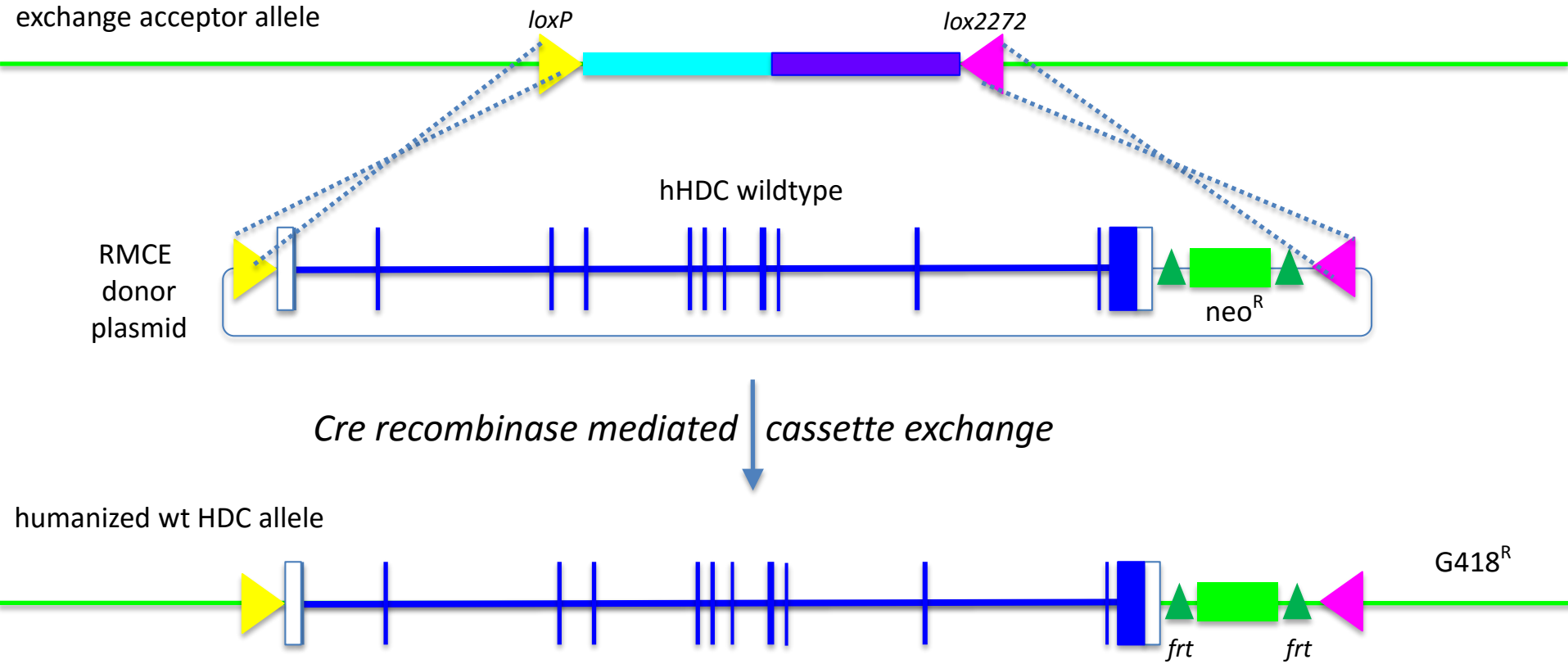


# ESC line mHdc-lox-hygro-tk-lox (clone IIG11)



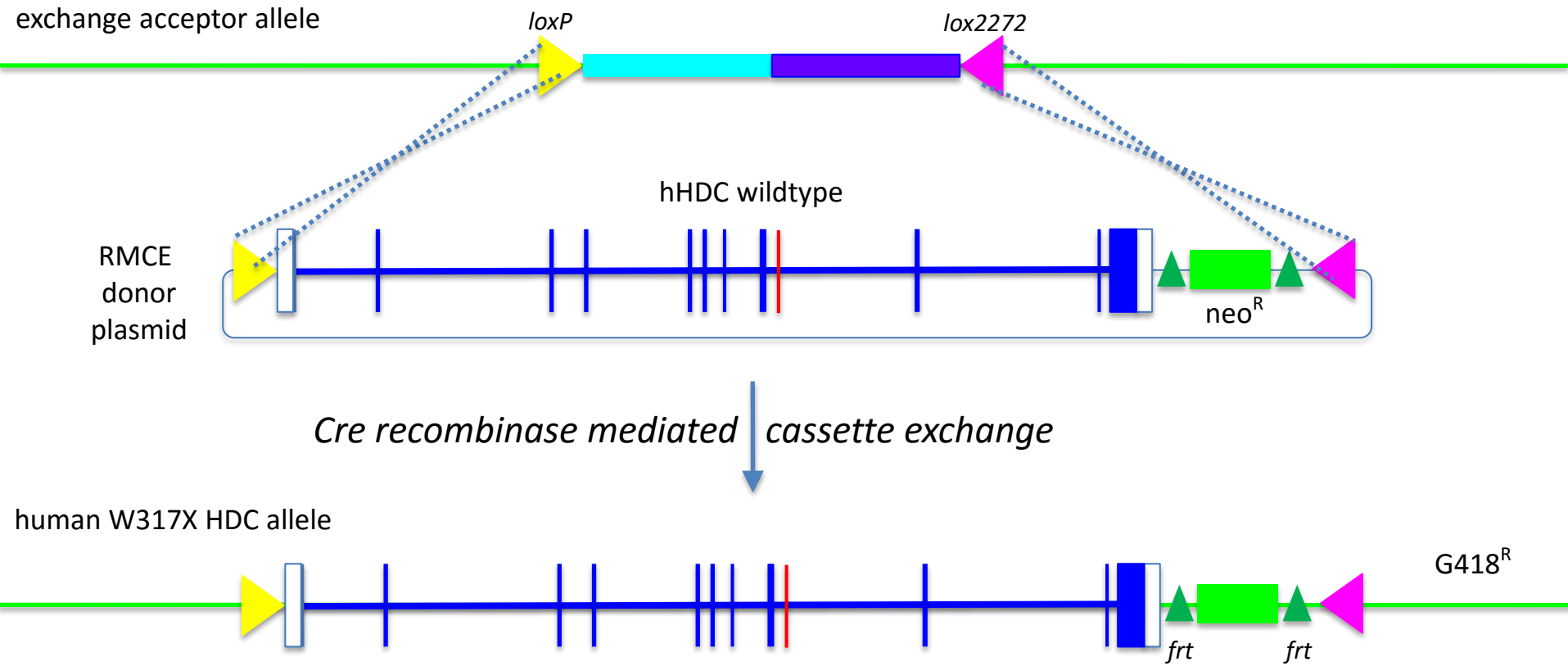
One endogenous mouse Hdc locus was replaced, via homologous recombination in ES cells using targeting vector  $\Delta$ mHdc-lox-Hygro-TK-lox, by a lox-hygro/TK-lox cassette, creating a recombinase mediated cassette exchange acceptor allele (drawings not to scale).

# ESC line **hHDC** (clone ID1)



The mouse exchange acceptor locus in ES cell line IIG11 was replaced via Cre recombinase mediated cassette exchange using the lox-hHDCwt-neo-lox RMCE donor plasmid, creating a mouse allele carrying the wildtype human HDC locus (drawings not to scale).

## ESC line **W317X HDC** (clone IC6)



The mouse exchange acceptor locus in ES cell line IIG11 was replaced via Cre recombinase mediated cassette exchange using the lox-hHDC-W317X-neo-lox RMCE donor plasmid, creating a mouse allele carrying the mutant human HDC locus with the W317X nonsense mutation due to a G>A change in exon 9 (drawings not to scale).