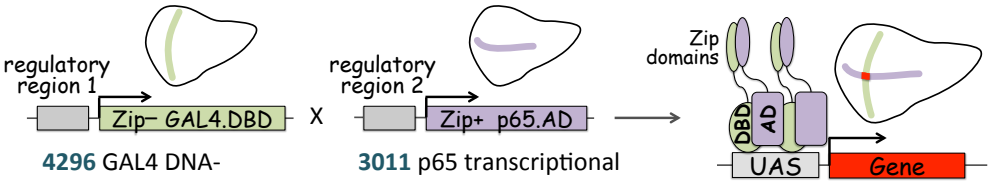
New (and new-ish) collections at the BDSC

Split-GAL4 lines

The Rubin/Dickson split-GAL4 hemidrivers are here! These lines carry either a GAL4 DNA-binding or a p65 transcriptional activation domain driven by the same regulatory fragments present in the Janelia and Vienna GAL4 collections. Links to expression patterns for the full GAL4s can be found on the BDSC split-GAL4 pages.

Use them to activate a UAS transgene in a refined region.

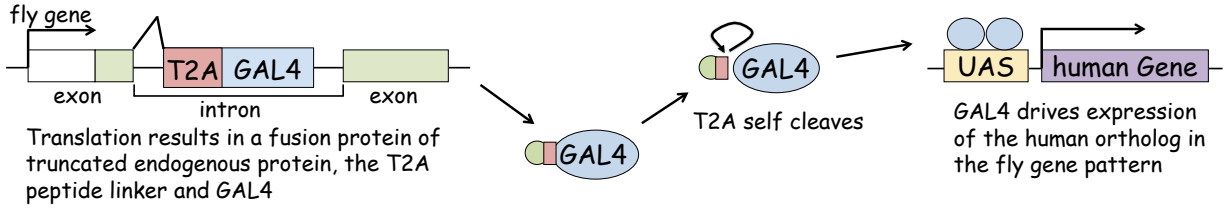


4296 GAL4 DNA-binding domain stocks

3011 p65 transcriptional activation domain stocks

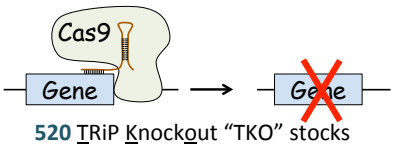
New tools for studying human disease

The Bellen and Celniker labs are generating UAS-human cDNAs for genes associated with human disease and, when possible, Mi{MIC}-based T2A-GAL4 swaps for their fly orthologs.

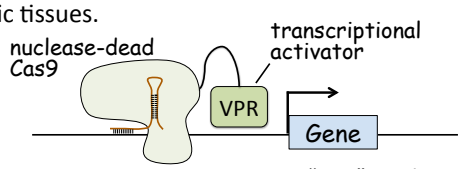


Guide RNAs

Insertions carrying ubiquitously expressed guide RNAs from the Transgenic RNAi Project. Combine with a GAL4 and UAS-Cas9 to induce gene knockout or overexpression in somatic tissues.



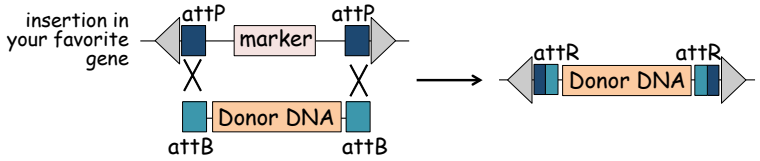
520 TRiP Knockout "TKO" stocks
gRNA for somatic gene knockout



291 TRiP Overexpression"TOE" stocks
gRNA for gene expression

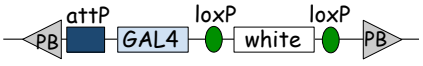
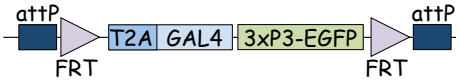
Insertions with swappable cassettes

Insertions carrying a gene cassette flanked by one or two phiC31 attP sites allow the cassette to be swapped with another via DNA injection or simple genetic crosses. Take an insertion in your favorite gene and turn it into the tool you need!



What can you make/swap in?

protein traps	enhancers
gene traps	transgenes
insulators	lexA
FRT sites	QF/QS
recombinases	GAL4/GAL80

		# stocks	generated by	from
Mi{MIC} insertions		7391	Minos transposition	Gene Disruption Project
InSITE insertions		1349	PBac transposition	InSITE Project
CRIMIC insertions		coming soon	CRISPR/Cas9	Gene Disruption Project Bellen & Perrimon labs