

Supplemental Table S1. Exhaustive list of fly strains examined for modifier effects on the *fru*-induced rough eye phenotype.

Stock number	Genotype
2	w[*]; betaTub60D[2] Kr[lf-1]/CyO
8	ac[4] w[a]
45	N[fa-1]
48	N[fa-fx]/C(1)DX, y[1] f[1]
90	Df(2L)C144, dpp[d-ho] ed[1]/ln(2LR)Gla, wg[Gla-1] Bc[1] Egfr[E1]
102	sc[1] z[1] N[fa-g62]
109	Df(1)sc10-1, sc[10-1]/y[1] ac[Hw-1]
113	sn[3]
115	sn[GK4]
116	sn[34e]
117	sn[36a]/C(1)DX, y[1] f[1]
118	N[spl-1]
122	w[1] sn[1] B[1]; e[1]
153	w[co] sn[2]
182	y[1] w[1] N[spl-1]
203	ab[1]
205	ab[2] ix[2] bw[1] sp[2]/ln(2L)Cy, ln(2R)Cy, Cy[1] dp[lv1] Bl[1] L[4] sp[2]
273	da[1] pr[1] cn[1]/SM5
290	Antp[23] red[1] e[1]/TM6B, Tb[1]
299	b[1] pr[1] eve[3]/CyO
305	Ubx[bx-3] Abd-B[Uab-1]/T(2;3)ap[Xa], ap[Xa]
389	S[1] wg[Sp-1] ab[2] ltd[1]/SM5
405	wg[Sp-1]/SM5
429	ptc[tuf-1] ltd[1]
483	DI[3]/ln(3R)C, e[1]
484	DI[5]/ln(3R)C, l(3)a[1]
485	DI[7]/TM2
486	DI[9]/ln(3R)C, e[1]
487	DI[11]/ln(3R)P, Dfd[1] ca[1]
488	DI[12]/ln(3R)P, Dfd[1] ca[1]
489	DI[13]/ln(3R)C, Sb[1] e[1] l(3)e[1]
491	Dr[Mio]/TM6, Ubx[+]
511	gro[1]
541	elav[4] w[*]/FM6, w[*] ct[*]/Dp(1;Y)y[+]sc
548	Abd-B[Mc]/T(2;3)ap[Xa], ap[Xa]
560	Pr[1] Dr[1]/TM3
582	sna[Sco]/CyO, P{w[+mC]=act-lacZ.B}CB1
653	Antp[24] red[1] e[1]/TM3, Sb[1]
674	tuh1[h]; Abd-B[iab9-tuh-3]
730	w[ch2] N[264-39]/FM4, B[+]
780	ln(1)dl-49, y[1] N[nd-0]
783	w[*] P{ry[+t7.2]=A92}sn[P1]
794	mwh[1] jv[1] st[1] red[1] Sb[sbd-2] Abd-B[M2] e[11] ro[1] ca[1]/TM1

839 P{ry[+t7.2]=A92}sn[P2]/C(1)DX, y[1] f[1]; ry[506]
845 w[1118] P{w[+mC]=lacW}sn[AL2]
901 Df(1)svr, N[spl-1] ras[2] fw[1]/Dp(1;Y)y[2]67g19.1/C(1)DX, y[1] f[1]
936 Df(1)64c18, g[1] sd[1]/Dp(1;2;Y)w[+]/C(1)DX, y[1] w[1] f[1]
1004 argos[Delta7]/TM3, Sb[1]
1005 wg[spd-fg]
1027 sd[1]
1028 Df(1)svr, N[spl-1]/C(1)DX, y[1] f[1]; Dp(1;f)101
1032 emc[D] rho[ve-1] rs[2] st[1] bul[D]/TM1
1033 pr[1] Cu[2] cn[1]/In(2L)t, In(2R)Cy, amos[Roi-1] cn[2] bw[45a] or[45a] sp[2]
1126 wg[spd-1]/SM5
1137 ptc[tuf-D]/SM1
1138 Dp(3;1)P68; abd-A[D24] Abd-B[D18]/TM1
1156 y[1] w[a]; Doa[3]/TM3, Ser[1]
1189 emc[D] st[1] in[1] kni[ri-1] p[p] Dr[Mio]/TM6C, ca[1]
1261 y[2] m[74f] wy[74i] sd[1] os[s]
1282 cm[1] m[74f] sd[1] os[s]
1289 C(1)M4, y[2]; TM6B, Tb[1] Dr[Mio]/In(3R)DI[B], DI[B]
1294 t[1] v[1] m[74f] wy[74i] sd[1] os[s]
1330 C(1)M4, y[2]/shi[1]; or[1] Kr[lf-1]; Sb[1]/In(3R)Ubx[80], Ubx[80]
1350 In(2R)vg[U], wg[Sp-1] amos[Tft] vg[U] mam[U] Pin[2]/SM1
1429 pn[1]; ry[506] Dr[1] P{ry[+t7.2]=Delta2-3}99B/TM6
1437 In(3R)Antp[R], Antp[R]/TM6B, Tb[1]
1455 In(3R)C, Sb[1] cd[1] Tb[1] ca[1]/DI[1] H[1] e[s] cd[1]
1477 Tp(2;3)Me, Me[1] Sb[sbd-l]/Df(3R)M86D
1541 y[1] w[1] N[spl-1]; Df(3L)66C-G28/TM3, Sb[1]
1564 nw[D] Pu[2] Egfr[E1] Pin[Yt]/SM1
1587 Df(2R)bw[VDe2L]Px[KR]/In(2LR)Gla, wg[Gla-1]
1595 bib[1]/CyO
1599 cn[1] eve[1] bw[1] sp[1]/CyO
1685 slp1[1] ptc[7] px[1] sp[1]/SM6a
1715 w[a] N[fa-swb]
1755 hb[12] st[1] e[1]/TM3, Sb[1]
1761 mwh[1] Pc[24] Abd-B[iab9-tuh-3]/TM3, Sb[1]
1766 mwh[1] Ubx[T7] Abd-B[iab9-tuh-3]/TM1
1804 Antp[73b-rv2]/TM2
1810 Dp(3;3)Antp[73b-rv8], Antp[73b-rv8] red[1] e[1]/TM3, Sb[1]
1811 Antp[Ns-rv11] red[1]/TM6
1825 C(1;Y)1, y[1]; In(3R)Antp[Ns-rv72], Antp[Ns-rv72] l(3)84Db[10]/TM6
1827 Antp[Ns-rvC1] red[1] e[1]/TM3, Sb[1]
1828 Antp[Ns-rvC2] red[1] e[1]/TM3, Sb[1]
1829 Antp[Ns-rvC3] red[1] e[1]/TM3, Sb[1]
1830 Antp[Ns-rvC4] red[1] e[1]/TM6B, Tb[1]
1831 Antp[Ns-rvC5] red[1] e[1]/TM3, Sb[1]
1832 Antp[Ns-rvC6] (red[1])/TM3, Sb[1]
1833 Df(3R)Antp7, red[1] e[1]/TM3, Sb[1]
1834 Antp[Ns-rvC8] red[1] e[1]/TM3, Sb[1]
1835 w[1118]; P{w[+mC]=NM}31E P{ry[+t7.2]=neoFRT}40A

1836 Antp[Ns-rvC9] red[1] e[1]/TM3, Sb[1]
1837 Antp[Ns-rvC11] p[p] (red[1] e[1]/TM3, Sb[1]
1838 Antp[Ns-rvC12] red[1] e[1]/TM3, Sb[1]
1840 T(2;3)Antp[Ns-rv13], Antp[Ns-rv13] p[p]/TM3, Sb[1]
1853 Df(2R)Egfr18, b[1] pr[1] cn[1]/CyO, bw[1]
1870 w[*] sn[1]; e[1]
1932 Df(3R)by416, red[1] e[1]/TM3, Sb[1]
1941 Df(3R)Antp2, Antp[2] e[1]/TM3, Sb[1]
1975 Df(3R)M86D, Dp(3;3)Dfd[rv1], Dfd[rv1] p[p] Doa[10]/TM3, Sb[1]
1982 Df(3R)Tpl3, Dp(3;3)Dfd[rv1], kni[ri-1] Dfd[rv1] p[p] Doa[10]/TM3, Sb[1]
1984 Df(3R)Tpl6, Dp(3;3)Dfd[rv1], kni[ri-1] Dfd[rv1] p[p] Doa[10]/TM6B, Tb[1]
1986 Df(3R)Tpl9, Dp(3;3)Dfd[rv1], kni[ri-1] Dfd[rv1] p[p] Doa[10]/TM3, Sb[1]
1990 Df(3R)Tpl10, Dp(3;3)Dfd[rv1], kni[ri-1] Dfd[rv1] p[p] Doa[10]/TM3, Sb[1]
2014 T(2;3)Antp[rv6], Antp[rv6] red[1] e[1]/TM3, Sb[1]
2015 T(2;3)Antp[rv7], Ki[1] Antp[73b-rv7]/TM3, ry[*] Sb[1]
2019 w[1118]; Df(3R)Hu, Antp[Hu-rv1]/TM3, P{w[+mC]=HZR+6.8Xb}JG1, Sb[1]
2029 Dfd[16] Antp[7] p[p] e[1]/TM3, Sb[1]
2031 Ki[1] Antp[25] p[p] Ubx[1] e[1]/TM6B, Tb[1]
2032 Ki[1] Scr[4] Antp[1] red[1] e[1]/TM3, Sb[1]
2046 Scr[4] Antp[25] p[p]/TM6B, Tb[1]
2079 Egfr[t1] bw[1]/CyO
2111 In(3R)Antp[73b], Ki[1] pb[4] Antp[73b] sas[Antp73b] ss[a]/TM3, Sb[1]
2162 pb[6] pb[12] Antp[72j]/TM3, Sb[1]
2172 Df(3R)MAP2, pb[20]/TM3, Antp[DC] Sb[1]
2124 gro[C105]/TM3, Sb[1]
2186 In(3R)Scr[Msc], ru[1] Scr[Msc] pum[Msc] ss[1] e[s]/TM3, Ser[1]
2209 N[nd-1] rb[1]
2210 N[nd-3] rb[1]/C(1)DX, y[1] f[1]
2211 w[a] N[Co] rb[1]/C(1)DX, y[1] w[1] f[1]; Dp(1;2)51b/+
2212 w[a] N[264-40] rb[1]/C(1)DX, y[1] w[1] f[1]; Dp(1;2)72c21/+
2229 In(3R)Antp[B], Antp[B] p[p] Ubx[bx-1]/TM2, p[p]
2233 In(3R)Antp[CB], Antp[CB]/TM3, Sb[1] Ser[1]
2235 Antp[Ns]
2236 dp[ov1] b[1] cn[1] ptc[Conf-1]/SM6a
2238 Antp[50] p[p] Ubx[bx-1] sr[1] e[1]/TM3, Sb[1]
2240 b[1] Sos[34Ea-6] Adh[n4]/CyO
2241 In(3R)Antp[R], Antp[R]/D[1]
2244 In(3R)Antp[RM], Antp[RM]/TM3, Sb[1]
2250 ru[1] h[1] st[1] kni[ri-1] Antp[Scx] p[p] e[s]/TM3, Sb[1]
2251 Tp(3;2)Antp[Ctx], Antp[Ctx] Sb[sbd-2]/TM1
2255 pb[6] Antp[72j]
2257 Antp[Scx] p[p] Sb[sbd-2] Ubx[bx-3] Ubx[pbx-1]/TM3, Sb[1]
2259 In(3R)Antp[73b], Antp[73b] sas[Antp73b] red[1] e[1]/TM3, Sb[1]
2272 Ki[1] Antp[21] p[p]/TM6B, Tb[1]
2275 Ki[1] Antp[7] rn[roe-1] p[p]/TM3, Sb[1]
2277 Ki[1] Antp[14] rn[roe-1] p[p]/TM3, Sb[1]
2283 Antp[26] red[1] e[1]/TM3, Sb[1]
2284 Antp[9] p[p]/TM3, Sb[1]

2286 Antp[11] p[p]/TM3, Sb[1]
2287 Antp[10] p[p]/TM3, Ser[1]
2288 lab[7] Antp[12] p[p]/TM3, Sb[1]
2289 Antp[13] p[p]/TM3, Sb[1]
2293 Antp[1] red[1] e[1]/TM3, Sb[1]
2294 In(3R)Antp[5], Antp[5] red[1] e[1]/TM3, Sb[1]
2297 Antp[18] red[1] e[1]/TM3, Sb[1]
2298 Antp[4] red[1] e[1]/TM6B, Tb[1]
2299 T(2;3)Antp[17], Antp[17] red[1] e[1]/TM3, Sb[1]
2303 kni[ri-1] Antp[16] e[1]/TM3, Sb[1]
2304 Antp[15] red[1] e[1]/TM3, Sb[1]
2309 Antp[3] red[1] e[1]/TM3, Sb[1]
2313 y[1]; Ki[1] Antp[22] rn[roe-1] p[p]/TM3, Sb[1]
2397 In(3LR)Antp[PW], Antp[PW]/TM3, Sb[1]
2471 Df(2R)M60E/In(2LR)bw[V32g], bw[V32g]
2528 Df(2R)gsb, cn[1] bw[1] zip[IIX62] gsb[IIX62]/CyO
2533 y[1] N[l1N-ts1] g[2] f[1]/C(1)DX, y[1] f[1]
2541 sn[w]; ry[506]
2604 Df(2R)Px2/CyO, P{ry[+t7.2]=sevRas1.V12}FK1
2747 neur[11]/TM6B, Tb[+]
2768 cn[1] Egfr[f2] bw[1] sp[1]/CyO
2886 w[a] N[fa-g]; l(2)52Fe[E6.17]/CyO
2978 wg[1] cn[1]
3010 Df(3R)P14, sr[1]/T(2;3)ap[Xa], ap[Xa]
3015 N[55e11] rb[1]/C(1)DX, y[1] w[1] f[1]; Dp(1;2)51b/+
3020 Antp[25] red[1] e[1]/TM3, Sb[1]
3023 Antp[Wu]/TM3, Sb[1]
3029 T(2;3)W, T(3;4)Antp[W], Antp[W]/TM3, Sb[1]
3057 T(2;3)abd-A[MX1], mwh[1] jv[1] st[1] red[1] Sb[sbd-2] abd-A[MX1] e[11] ro[1] ca[1]/TM1
3072 w[a] N[fa-g]; l(2)52Fd[E3.27]/CyO
3075 w[a] N[l1N-ts2] rb[1]
3076 Df(2L)E55, rdo[1] hk[1] Lar[E55] pr[1]/CyO
3092 N[Ax-tsl]
3102 lea[2] cn[1] bw[1] sp[1]/CyO
3157 Df(2R)ES1, b[1] pr[1] cn[1] wx[wxt]/SM1
3176 w[a] N[fa-g]; Rho1[E3.10]/CyO
3253 th[1] st[1] kni[ri-1] rn[roe-1] p[p] osk[6] nos[L7] e[1]/TM3, Sb[1] Ser[1]
3254 st[1] pum[13] nos[L7] e[1]
3257 st[1] kni[ri-1] bcd[6] rn[roe-1] p[p] nos[L7] e[1]/TM3, Sb[1] Ser[1]
3258 st[1] pum[13] e[1] tsl[4] ca[1]/TM3, Sb[1] Ser[1]
3260 st[1] pum[13]/TM3, Sb[1] Ser[1]
3261 st[1] kni[ri-1] bcd[6] pum[13]/TM3, Ser[1]
3266 cn[1] sli[2] bw[1] sp[1]/CyO
3270 cn[1] grh[IM] bw[1] sp[1]/CyO
3285 st[1] nos[L7] e[1]/TM3, Sb[1] Ser[1]
3298 exu[1] cn[1] Kr[lf-1] Kr[27]/CyO
3332 kni[9] pum[13]/TM3, Ser[1]
3335 th[1] st[1] kni[ri-1] p[p] pum[3] e[1] tll[1]/TM3, Sb[1]

3339 w[a] N[fa-g]; l(2)52Fc[D8.13]/CyO
3349 ru[1] h[1] th[1] st[1] cu[1] ems[1] sr[1] e[s] ca[1]/TM3, Sb[1] Ser[1]
3377 ptc[9] cn[1] bw[1] sp[1]/CyO
3396 ln(3R)Hu, Antp[Hu] Sb[Spi]/ln(3R)P
3407 ru[1] h[1] st[1] cp[1] in[1] kni[ri-1] Antp[Scx] p[p] cu[1] e[1]/TM3, Sb[1]
3440 Abd-B[Mcp-1]/TM1
3443 Abd-B[iab6-C7]/TM1
3461 ln(3R)iab7[SGA], Abd-B[iab7-SGA]/Ubx[130]
3471 T(1;3)Uab[5], Ubx[Uab-5] abd-A[Uab-5]/T(2;3)ap[Xa], ap[Xa]
3478 Ubx[G2] abd-A[Uab-2]/TM3, ry[RK] Sb[1] Ser[1]
3483 Df(3R)P10, abd-A[P10]/TM1
3492 Dp(3;3)bx[100], red[1] Sb[sbd-2] Ubx[bx-3] abd-A[Hab-1]/TM1
3494 cn[1] bw[1] Kr[1]/SM6a, bw[k1]
3497 ln(3LR)iab3[4], abd-A[iab3-Uab4]/Dp(3;3)81-83, Abd-B[Sab-1] Abd-B[Mcp-1]
3509 C(1)M3; Ubx[bx-3] abd-A[Hab-1] Abd-B[Mc]/TM1
3511 ln(3R)Antp[B], Antp[B] Ubx[bx-34e] Ubx[bxd-121]/TM1
3517 w[a] N[fa-g]; Df(2R)Jp4/CyO
3518 w[a] N[fa-g]; Df(2R)Jp1/CyO
3520 w[a] N[fa-g]; Df(2R)Jp8, w[+]/CyO
3521 w[a] N[fa-g]; Df(2R)Jp6/CyO
3522 w[a] N[fa-g]; Df(2R)Jp7, w[+]/CyO
3553 Abl[4] kar[1] red[1] e[1]/TM6B, Tb[1]
3554 Abl[1] kar[1] red[1] e[1]/TM6B, Tb[1]
3670 Dp(3;1)P115; Df(3R)P9, st[1] in[1] kni[ri-1] Pc[3] Antp[21] Ki[1] p[p]/TM3, Sb[1]
3672 Dp(3;1)P115; Df(3R)P9, st[1] in[1] kni[ri-1] Pc[3] Scr[4] Antp[25]/TM3, Sb[1]
3675 st[1] in[1] kni[ri-1] Pc[3] Antp[21] Ki[1] p[p]/TM3, Sb[1]
3676 st[1] in[1] kni[ri-1] Pc[3] Antp[25] red[1] e[s]/TM3, Sb[1]
3677 Df(3R)P10, st[1] in[1] kni[ri-1] Pc[3] p[p] abd-A[P10]/TM6B, Tb[+]
3704 w[1118]/Dp(1;Y)y[+]; CyO/Bl[1]; TM2/TM6B, Tb[1]
3760 y[1] l(1)EN2[1] w[1] N[spl-1] sn[1] bb[*]/Binsc, Sxl[f1] oc[1] ptg[1]
3762 y[1] w[1] l(1)EN12[1] N[spl-1] sn[1] bb[*]/Binsc, Sxl[f1] oc[1] ptg[1]
3763 y[1] w[1] N[spl-1] l(1)EN13[1] sn[1]/Binsc, Sxl[f1] oc[1] ptg[1]
3764 y[1] w[1] N[spl-1] sn[1] l(1)EN1[1]/Binsc, Sxl[f1] oc[1] ptg[1]
3765 y[1] w[1] N[spl-1] sn[1] l(1)EN4[1] bb[*]/Binsc, Sxl[f1] oc[1] ptg[1]
3766 y[1] w[1] N[spl-1] sn[1] l(1)EN5[1]/Binsc, Sxl[f1] oc[1] ptg[1]
3767 y[1] w[1] N[spl-1] sn[1] l(1)EN6[1] bb[*]/Binsc, Sxl[f1] oc[1] ptg[1]
3768 y[1] w[1] N[spl-1] sn[1] l(1)EN7[1]/Binsc, Sxl[f1] oc[1] ptg[1]
3770 y[1] w[1] N[spl-1] sn[1] l(1)carot12[1] bb[*]/Binsc, Sxl[f1] oc[1] ptg[1]
3771 y[1] w[1] N[spl-1] sn[1] l(1)EN10a[1] bb[*]/Binsc, Sxl[f1] oc[1] ptg[1]
3773 y[1] w[1] N[spl-1] sn[1] l(1)EN11[1] bb[*]/Binsc, Sxl[f1] oc[1] ptg[1]
3776 y[1] w[1] N[spl-1] sn[1] l(1)EN14[1]/Binsc, Sxl[f1] oc[1] ptg[1]
3777 y[1] w[1] N[spl-1] sn[1] l(1)EN15[1] bb[*]/Binsc, Sxl[f1] oc[1] ptg[1]
3778 y[1] w[1] N[spl-1] sn[1] l(1)EN16[1] bb[*]/Binsc, Sxl[f1] oc[1] ptg[1]
3907 l(1)3Bd[2], y[2] N[spl-1] sn[3]/FM7a/Dp(1;2;Y)w[+]
3988 brat[1] rdo[1] hk[1] pr[1]/CyO
4130 ln(2R)DX8, Dscam[17] cn[1] bw[1] sp[1]/CyO, Tp(2;2)pk-sple[26], pk[pk-sple-26]
4186 y[1] w[1] N[spl-1] sn[1] flil[10] bb[*]/Binsc, Sxl[f1] oc[1] ptg[1]
4190 ap[blt]

4194 b[1] Kr[lf-1]
4209 DI[X]/In(3L)P, In(3R)P
4220 ru[1] h[1] th[1] st[1] cu[1] sr[1] DI[9P] e[s] ca[1]/TM3, Sb[1]
4222 ru[1] h[1] th[1] st[1] neur[1] cu[1] sr[1] e[s] ca[1]/TM3, Sb[1]
4235 y[1] w[1] N[spl-1]/Dp(1;Y)B[S]; mle[1]/SM1
4251 Tp(2;3) Me/In(2LR)O, In(2LR)Gla, Cy[1] wg[Gla-1]
4281 crm[7] N[spl-1] sn[3]/FM7a/Dp(1;2;Y)w[+]
4355 y[1] N[fa-1] wy[2] g[2]
4373 y[1] w[67c23]; Oda[lex47]/CyO, P{ry[+t7.2]=en1}wg[en11]
4460 DI[14]/In(3R)P, Cyd[1]
4541 y[1] w[*]; Chi[e5.5]/CyO-Df(2R)B80, y[+]
4548 y[1] w[67c23]; P{w[+mC]=lacW}aay[S042314]/TM3, Sb[1] Ser[1]
4581 nompC[3]/SM6b
4582 nompC[4]/SM6b
4748 beat-la[3] Fas3[E25]/CyO, P{w[+mC]=act-lacZ.B}CB1
4762 w[1118]; Df(2R)lio[2], pigeon[2] drl[2]
4763 w[1118]; P{w[+mC]=lacW}pigeon[P1], drl[P1]/CyO, P{ry[+t7.2]=sevRas1.V12}FK1
4894 EcR[M554fs]/SM6b
4895 EcR[Q50st]/SM6b
4922 Hk[1] g[1] sd[1] l(1)15Bb[R31] f[1]/C(1)DX; Dp(1;4)r[+]/+
4923 Hk[1] g[1] sd[1] l(1)15Dc[R3] f[1]/C(1)DX; Dp(1;4)r[+]/+
4924 Hk[1] g[1] sd[1] l(1)15Dd[R12] f[1]/C(1)DX; Dp(1;4)r[+]/+
4961 Df(2R)Kr10, b[1] pr[1] Bl[1] c[1]/CyO
5150 P{ry[+t7.2]=lArB}sd[ETX4]; ry[506]
5275 C(1;YL)1, y[1] N[TA17V] l(1)7Ad[TA17V]/FM7c/Dp(1;Y)y[+]
5374 P{ry[+t7.2]=PZ}ap[rK568]/CyO
5407 y[1] w[*]; nmo[j147-1]/TM3, Sb[1]
5458 w[*]; pros[17]/TM6B, Tb[1]
5531 w[1118]; Df(2L)da[10], da[10] P{w[+t*] ry[+t*]=white-un1}30C P{neoFRT}40A/In(2LR)Gla, wg[Gla-1] Bc[1]
5532 w[*]; emc[1] P{ry[+t7.2]=neoFRT}80B/TM6B, Tb[1]
5602 DI[B2] e[1]/TM6C, Sb[1]
5603 DI[RF]/TM6C, Sb[1]
5605 ss[1] DI[6B] e[1]/TM6C, Sb[1]
5692 trp[1]
5799 EcR[A483T] cn[1] bw[1]/SM6b, bw[*]
5808 spen[14O1]/CyO, P{w[+mW.hs]=sE-raf[torY9]}475
5809 spen[16H1] P{ry[+t7.2]=neoFRT}40A/CyO, P{w[+mW.hs]=sE-raf[torY9]}475
5813 In(1)ph410, ph-p[410] w[1]
5871 msl-2[227] bw[1]/CyO
5872 msl-3[1] red[1]/TM3, Sb[1] Ser[1]
5873 mle[9] cn[1] bw[1]/CyO
5934 Dp(?;2)bw[D], Dscam[1] bw[D]/CyO
5966 Df(1)64j4, y[1] w[a] N[spl-1]/Dp(1;2;Y)w[+]/C(1)DX, y[1] f[1]
6039 y[2] sc[1] z[1] w[*] N[spl-1] sn[3] v[1] g[2] f[1]/FM7c
6174 emc[E6]
6206 In(1)w[m4h]; Pp1-87B[1]/TM3, Sb[1] Ser[1]
6207 Pp1-87B[1] e[1] ro[1]/TM3, Sb[1] Ser[1]
6208 T(Y;3)15, Pp1-87B[2] e[1] ro[1]/TM3, Sb[1] Ser[1]

6300 Df[RevF10] Ser[RX82] P{ry[+t7.2]=neoFRT}82B/TM6B, Tb[1]
6332 w[*]; P{ry[+t7.2]=neoFRT}42D ptc[S2]/CyO
6500 Egfr[f24]/T(2;3)TSTL, CyO: TM6B, Tb[1]
6501 cn[1] Egfr[tsla] bw[1]/T(2;3)TSTL, CyO: TM6B, Tb[1]
6509 w[*]; w[+mC] bon[21B]/TM6B, Tb[1]
6589 Ptp52F[8.10.3]/CyO, P{w[+mC]=ActGFP}JMR1
6590 Ptp52F[18.3]/CyO, P{w[+mC]=ActGFP}JMR1
6630 w[*]; CycB[2]/CyO, P{ry[+t7.2]=ftz/lacB}E3
6635 w[*]; CycB3[2]/TM3, Sb[1] P{w[+mC]=35UZ}2
6675 Rac2[Delta] ry[506]
6677 y[1] w[*]; Rac1[J11] Rac2[Delta] P{w[+mW.hs]=FRT(w[hs])}2A/TM6B, Tb[+]
6678 y[1] w[*]; Rac1[J11] Rac2[Delta] P{w[+mW.hs]=FRT(w[hs])}2A Mtl[Delta]/TM6B, Tb[1]
6679 y[1] w[*]; Rac1[J10] Rac2[Delta] P{w[+mW.hs]=FRT(w[hs])}2A Mtl[Delta]/TM6B, Tb[1]
6782 w[*]; P{w[+mC]=lacW}pum[bem]/TM6
6929 w[1118]; Fmr1[Delta113M]/TM6B, Tb[1]
6930 w[1118]; Fmr1[Delta50M]/TM6B, Tb[1]
7336 argos[rlt]
7560 w[1118]; Df(2R)Exel6081, P{w[+mC]=XP-U}Exel6081/CyO
7561 w[1118]; Df(2R)Exel6082, P{w[+mC]=XP-U}Exel6082/CyO
8565 Abl[2]/TM6B, Tb[1]
8568 wg[Sp-1] Bl[1] ena[210]/CyO
8569 Adh[fn6] pr[1] cn[1] ena[GC1]/CyO
8570 Adh[fn6] pr[1] cn[1] ena[GC5]/CyO, P{ry[+t7.2]=ftz/lacB}E3
8571 ena[23]/CyO, P{w[+mC]=act-lacZ.B}CB1
8734 spen[5] P{ry[+t7.2]=neoFRT}40A/CyO, P{w[+m*]=lacZ-un3}276
8735 y[1] w[*]; spen[3]/CyO, P{w[+m*]=lacZ-un3}276
9042 y[1] w[67c23]; l(2)gl[4]/CyO, y[+]
9043 w[*]; cu[1] trp[7]
9044 w[*]; trp[P365]
9045 w[*]; cu[1] trp[2]
9046 w[*]; trp[9]
9370 ln(1)sd[58d], w[*] sd[58d] P{ry[+t7.2]=neoFRT}18A/FM7a
9371 y[1] w[*] sd[12] P{ry[+t7.2]=neoFRT}18A/FM7a
9372 w[*] sd[11]/FM7i, P{w[+mC]=ActGFP}JMR3
9554 ln(3R)GC25, lnR[93Dj-4]/TM3, Sb[1]
9568 w[*]; Abl[1] P{w[+mW.hs]=FRT(w[hs])}2A/TM6B, Tb[+]
9585 w[*]; ab[clu-1] b[1] pr[1] c[1] px[1] sp[1]/CyO
9646 lnR[E19]/TM2
10646 y[1] w[67c23]; P{w[+mC]=lacW}spen[k06805]/CyO
10184 P{ry[+t7.2]=PZ}Abl[04674] ry[506]/TM3, ry[RK] Sb[1] Ser[1]
10191 y[1] ac[1]; P{y[+t7.7] ry[+t7.2]=Car20y}25F; ry[506]
10337 y[1] w[1118]; P{w[+mC]=lacW}CycB3[L6540]/TM3, Ser[1]
10381 y[1] w[67c23]; P{w[+mC]=lacW}Kr-h1[k04411]/CyO
10385 y[1] w[67c23]; P{w[+mC]=lacW}Egfr[k05115]/CyO
10392 y[1] w[67c23]; P{w[+mC]=lacW}Kr[k05826]/CyO
10439 w[*]; P{w[+mC]=lacW}Sema-2a[k11240]/CyO, P{ry[+t7.2]=sevRas1.V12}FK1
10444 y[1] w[67c23]; P{w[+mC]=lacW}dock[k13421]/CyO
10460 w[1118]; P{w[+mC]=lacW}grh[s2140]/CyO

10514 y[1] w[67c23]; P{w[+mC]=lacW}ptc[k02507]/CyO
10520 y[1] w[67c23]; P{w[+mC]=lacW}ab[k02807]/CyO
10563 y[1] w[67c23]; P{w[+mC]=lacW}porin[k05123]/CyO
10566 y[1] w[67c23]; P{w[+mC]=lacW}Sos[k05224]/CyO
10600 w[67c23] P{w[+mC]=lacW}sd[G0309]/FM7c
10601 y[1] w[67c23]; P{w[+mC]=lacW}brat[k06028]/CyO
10654 y[1] w[67c23]; P{w[+mC]=lacW}hoip[k07104]/CyO
10812 w[67c23] P{w[+mC]=lacW}sd[G0315b]/FM7c
10911 w[1118] P{w[E] ry[+t7.2]=wE}sd[E3]
10946 cn[1] P{ry[+t7.2]=PZ}lola[00642]/CyO; ry[506]
11040 P{ry[+t7.2]=PZ}Adf1[01349] cn[1]/CyO, P{ry[+t7.2]=sevRas1.V12}FK1
11053 l(2)gl[01433] P{ry[+t7.2]=PZ}kek1[01433] l(2)36Ba[01433] cn[1]/CyO; ry[506]
11097 y[1] w[67c23]; P{w[+mC]=lacW}Sema-1a[k13702]/CyO
11100 CyO, P{ry[+t7.2]=lArB}Fas3[A183.1F2]/b[1] Adh[*] cn[*] l(2)*[*]; ry[506]
11114 cn[1] P{ry[+t7.2]=PZ}ena[02029] CG15118[02029]/CyO; ry[506]
11257 cn[1] P{ry[+t7.2]=PZ}Sema-2a[03021]/CyO; ry[506]
11295 P{ry[+t7.2]=PZ}spen[03350] cn[1]/CyO; ry[506]
11376 cn[1] P{ry[+t7.2]=PZ}sbb[04440]/CyO; ry[506]
11385 P{ry[+t7.2]=PZ}dock[04723] cn[1]/CyO; ry[506]
11408 P{ry[+t7.2]=PZ}stc[05441] CG15269[05441] cn[1]/CyO; ry[506]
11412 P{ry[+t7.2]=PZ}Dscam[05518] cn[1]/CyO; ry[506]
11504 P{ry[+t7.2]=PZ}abs[00620] ry[506]/TM3, ry[RK] Sb[1] Ser[1]
11515 P{ry[+t7.2]=PZ}osp[00865]; ry[506] P{PZ}zfh1[00865]/TM3, ry[RK] Sb[1] Ser[1]
11544 P{ry[+t7.2]=PZ}pum[01688] ry[506]/TM3, ry[RK] Sb[1] Ser[1]
11545 P{ry[+t7.2]=PZ}Acon[01705a]; ry[506] P{PZ}Doa[01705b]/TM3, ry[RK] Sb[1] Ser[1]
11579 P{ry[+t7.2]=PZ}caps[02937] ry[506]/TM3, red[*] Ser[1]
11629 P{ry[+t7.2]=PZ}emc[04322] ry[506]/TM3, ry[RK] Sb[1] Ser[1]
11651 ry[506] P{ry[+t7.2]=PZ}Dl[05151]/TM3, ry[RK] Sb[1] Ser[1]
11661 ry[506] P{ry[+t7.2]=PZ}InR[05545]/TM3, ry[RK] Sb[1] Ser[1]
11685 P{ry[+t7.2]=PZ}dally[06464] P{PZ}l(3)87Df[06464] ry[506]/TM3, ry[RK] Sb[1] Ser[1]
11744 P{ry[+t7.2]=PZ}pros[10419] ry[506]/TM3, ry[RK] Sb[1] Ser[1]
11786 P{ry[+t7.2]=PZ}emc[03970] ry[506]/TM3, ry[RK] Sb[1] Ser[1]
11887 w[67c23] P{w[+mC]=lacW}sd[G0239]/FM7c
11888 w[67c23] P{w[+mC]=lacW}sd[G0262]/FM7c
12129 y[1] w[*]; P{w[+mC]=lacW}Pp1-87B[j6E7]/TM3, Sb[1]
12143 y[1] w[*]; P{w[+mC]=lacW}nos[j3B6] CG11779[j3B6]/TM3, Sb[1]
12325 P{ry[+t7.2]=PZ}grh[06850] cn[1]/CyO; ry[506]
12380 cn[1] P{ry[+t7.2]=PZ}Kr-h1[10642]/CyO; ry[506]
12393 y[1] w[67c23]; P{w[+mC]=lacW}l(2)k07109a[k07109a] P{lacW}Fas3[k07109b]/CyO
12892 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}oaf[KG00814]
12956 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}Dscam[KG00799]a P{SUPor-P}Dscam[KG00799]b, Dscam[KG00799]
12986 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}brat[KG02716]
13097 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}Kr-h1[KG00354]/SM6a
13116 w[1118] P{w[+mGT]=GT1}Smr[BG01648]/FM7a
13165 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}msl-3[KG00939] ry[506]
13196 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}pum[KG02259] ry[506]
13248 y[1] P{y[+mDint2] w[BR.E.BR]=SUPor-P}NetB[KG03586]
13413 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}stc[KG01230]

13507 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}Sema-2a[KG03423]
13672 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}Dscam[KG00474]
13769 y[1]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}KG03071/CyO; ry[506]
13814 y[1] P{y[+mDint2] w[BR.E.BR]=SUPor-P}sd[KG04449]
13860 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}brat[KG04933]
13938 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}sbb[KG02585]
13996 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}l(2)gl[KG05323]
14034 y[1] w[67c23]; ry[506] P{y[+mDint2] w[BR.E.BR]=SUPor-P}CG11334[KG06246]
14179 y[1] w[67c23]; ry[506] P{y[+mDint2] w[BR.E.BR]=SUPor-P}CG11334[KG02115]
14191 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}sbb[KG03761]
14201 y[1]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}ab[KG05262]/CyO; ry[506]
14257 y[1]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}Fas3[KG02038]
14271 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}Rac2[KG05681b] ry[506]
14313 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}msl-2[KG06747]
14322 y[1] w[67c23]; ry[506] P{y[+mDint2] w[BR.E.BR]=SUPor-P}gro[KG07117]
14350 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}nmo[KG00412] ry[506]
14366 C(1;Y)1, y[1] P{y[+mDint2] w[BR.E.BR]=SUPor-P}NetB[KG01368]; ry[506]
14473 y[1]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}Kr-h2[KG06150]/CyO; ry[506]
14593 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}sbb[KG05260]
14598 y[1]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}pum[KG05749] ry[506]/TM3, Sb[1] Ser[1]
14749 y[1] w[67c23]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}brat[KG08647]
14795 y[1]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}oaf[Scim-a]/SM1; ry[506]
15145 y[1]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}CycB[KG08886]/CyO; ry[506]
15207 y[1]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}Kr-h1[KG09713]; ry[506]
16503 y[1]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}Sos[KG10074]
16510 y[1]; P{y[+mDint2] w[BR.E.BR]=SUPor-P}Dscam[KG10109]
18676 w[1118]; PBac{w[+mC]=WH}porin[f03616]
19245 w[1118]; P{w[+mC]=XP}Antp[d06610]/TM6B, Tb[1]
20435 y[1] w[67c23]; P{y[+t7.7] w[+mC]=wHy}ena[DG14706] CG15118[DG14706]/SM6a
20459 y[1] w[67c23]; P{y[+t7.7] w[+mC]=wHy}Dscam[DG23311]
20537 y[1] w[67c23]; P{y[+t7.7] w[+mC]=wHy}nmo[DG29209]
20592 y[1] w[67c23]; P{y[+t7.7] w[+mC]=wHy}gro[DG12307]/TM3, Sb[1] Ser[1]
20999 y[1] w[67c23]; P{y[+t7.7] w[+mC]=wHy}sbb[DG03105]
21000 y[1] w[67c23]; P{y[+t7.7] w[+mC]=wHy}Abl[DG03106]
21016 y[1] w[67c23]; P{y[+t7.7] w[+mC]=wHy}CycB3[DG03407]
21042 y[1] w[67c23]; P{y[+t7.7] w[+mC]=wHy}pum[DG05207]/TM3, Sb[1] Ser[1]
21289 y[1] w[67c23]; P{y[+t7.7] w[+mC]=wHy}caps[DG25609]
21542 y[1] w[67c23]; P{y[+t7.7] w[+mC]=wHy}pum[DG16508]
21684 y[1] w[67c23]; P{y[+t7.7] w[+mC]=wHy}brat[DG19310]
21712 y[1] w[67c23]; P{y[+t7.7] w[+mC]=wHy}Rac2[DG19808]
21749 y[1] w[67c23]; P{y[+t7.7] w[+mC]=wHy}InR[DG20809]
22135 y[1] w[67c23]; P{y[+t7.7] w[+mC]=wHy}brat[DG08705]/SM6a
23696 w[*]; Pp1-87B[87Bg-3]/TM6B, Tb[1]
24498 w[*]; sna[Sco]/CyO; trp[14]
24895 w[*]; trp[74]
24896 w[*]; trp[47]
25084 w[*]; trp[92]
25139 ln(2L)dpp[s22], dpp[s22] stc[6]/CyO

25158 msl-2[kmA]/CyO
25404 w[*]; P{w[+mW.hs]=FRT(w[hs])}G13 ena[210]/CyO
25405 w[*]; P{w[+mW.hs]=FRT(w[hs])}G13 ena[23]/CyO
27897 y[1] w[*]; P{w[+mC]=lacW}nmo[P1]/TM3, Sb[1]
27908 y[1] w[*]; nmo[E33]/TM3, Sb[1]
28403 y[1] w[*]; P{w[+mC]=EP}porin[G13650]
30472 b[1] stc[3] pr[1] cn[1] bw[1]/SM5
30476 Sos[34Ea-7] pu[7] Adh[D] pr[1] cn[1]/CyO, Adh[nB]
