

## File S1

### List of deficiencies tested in F1 screen for *endos*<sup>00003</sup> dominant enhancers

Chromosome 1: *Df(1)N-8, Df(1)64c18, Df(1)A113, Df(1)JC70, Df(1)ct-J4, Df(1)RA2, Df(1)KA14, Df(1)C52, Df(1)HA85, Df(1)N105, Df(1)JA27, Df(1)DCB1-35b, Df(1)RK2, Df(1)BA1, Df(1)sc-J4, Df(1)XR38, Df(1)Sxl-bt, Df(1)B25, Df(1)BK10, Df(1)dx81, Df(1)RR79, In(1)AC2<sup>L</sup>AB<sup>R</sup>, Df(1)Exel6253, Df(1)Exel6291, Df(1)ED6878, Df(1)ED7364.*

Chromosomal arm 2L: *Df(2L)C144, Df(2L)TE29Aa-11, Df(2L)TW137, Df(2L)E110, Df(2L)cl-h3, Df(2L)r10, Df(2L)JS17, Df(2L)spd<sup>d2</sup>, Df(2L)cact-255rv64, Df(2L)N22-14, Df(2L)Prl, Df(2L)ast2, Df(2L)dp-79b, Df(2L)b87e25, Df(2L)J2, Df(2L)TE35BC-24, Df(2L)net-PMF, Df(2L)XE-3801, Df(2L)C', Df(2L)ed1, Df(2L)Dwee1-W05, Df(2L)BSC4, Df(2L)BSC5, Df(2L)BSC6, Df(2L)BSC7, Df(2L)BSC17, Df(2L)BSC16, Df(2L)dpp<sup>d14</sup>, Df(2L)BSC28, Df(2L)BSC30, Df(2L)BSC31, Df(2L)BSC36, Df(2L)BSC37, Df(2L)BSC41, Df(2L)Exel6011, Df(2L)Exel6049, Df(2L)BSC50, Df(2L)BSC106, Df(2L)BSC109, Df(2L)BSC110, Df(2L)BSC111, Df(2L)ED250, Df(2L)ED611, Df(2L)BSC142, Df(2L)BSC143, Df(2L)BSC145, Df(2L)BSC147, Df(2L)BSC151.*

Chromosomal arm 2R: *Df(2R)H3E1, Df(2R)X58-12, Df(2R)CX1, Df(2R)M41A4, In(2R)bw<sup>VDe2L</sup> Cy<sup>R</sup>, Df(2R)vg-C, Df(2R)P34, Df(2R)nap9, Df(2R)en30, Df(2R)PC4, Df(2R)or-BR6, Df(2R)X1, Df(2R)B5, Df(2R)ST1, Df(2R)M60E, Df(2R)Px2, Df(2R)AA21, Df(2R)Jp1, Df(2R)Jp8, Df(2R)Np5, Df(2R)59AD, Df(2R)Kr10, Df(2R)w45-30n, Df(2R)Egfr5, Df(2R)robl-c, Df(2R)BSC3, Df(2R)BSC11, Df(2R)BSC18, Df(2R)BSC22, Df(2R)14H10Y-53, Df(2R)14H10W-35, Df(2R)BSC26, Df(2R)BSC29, Df(2R)BSC39, Df(2R)BSC40, Df(2R)vir130, Df(2R)BSC45, Df(2R)Exel7130, Df(2R)Exel7131, Df(2R)ED4065, Df(2R)BSC132, Df(2R)BSC134, Df(2R)BSC161, Df(2R)BSC155, Df(2R)BSC550.*

Chromosomal arm 3L: *Df(3L)GN34, Df(3L)pbl-X1, Df(3L)66C-G28, Df(3L)rdgC-co2, Df(3L)R-G7, Df(3L)emc-E12, Df(3L)vin5, Df(3L)vin7, Df(3L)st-f13, Df(3L)h-i22, Df(3L)ZN47, Df(3L)jfz-GF3b, Df(3L)ri-79c, Df(3L)kto2, Df(3L)brm11, Df(3L)HR119, In(3LR)C190<sup>L</sup>Ubx<sup>42TR</sup>, Df(3L)XDI98, Df(3L)Pc-2q, Df(3L)Scf-R6, Df(3L)Ten-m-AL29, Df(3L)XS533, Df(3L)eyg<sup>C1</sup>, Df(3L)ZP1, Df(3L)ri-XT1, Df(3L)HD1, Df(3L)BSC10, Df(3L)BSC12, Df(3L)BSC14, Df(3L)XG5, Df(3L)BSC21, Df(3L)Fz2, Df(3L)BSC33, Df(3L)BSC35, Df(3L)Exel6087, Df(3L)ED4782, Df(3L)ED4978, Df(3L)BSC181, Df(3L)BSC223, Df(3L)BSC249, Df(3L)BSC283.*

Chromosomal arm 3R: *Df(3R)ea, Df(3R)3450, Df(3R)Dr-rv1, Df(3R)D605, Df(3R)P115, Df(3R)ME15, Tp(3;Y)ry506-85C, Df(3R)Scr, Df(3R)TI-P, Df(3R)by10, Df(3R)p712, Df(3R)Tpl10, Df(3R)crb87-5, Df(3R)WIN11, Df(3R)mbc-R1, Df(3R)23D1, Df(3R)T-32, Df(3R)Cha7, Df(3R)DI-BX12, Df(3R)M-Kx1, Df(3R)e-R1, Df(3R)B81, Df(3R)DG2, Df(3R)crb-F89-4, Df(3R)mbc-30, Df(3R)H-B79, Df(3R)Esp3, Df(3R)e1025-14, Df(3R)BSC24, Df(3R)BSC38, Df(3R)BSC42, Df(3R)BSC43, Df(3R)BSC47, Df(3R)Exel6144, Df(3R)Exel6195, Df(3R)Exel6196, Df(3R)Exel6197, Df(3R)Exel6202, Df(3R)Exel6203, Df(3R)Exel9012, Df(3R)Exel9014, Df(3R)ED5177, Df(3R)BSC55, Df(3R)BSC56, Df(3R)BSC137, Df(3R)BSC140, Df(3R)IR16.*

Chromosome 4: *Df(4)O2.*