

Appendix

Appendix Table 3.1. *C. elegans* chromosome III genes with previously known RNA interference phenotypes

CE RNAi clone	Pheno Screen 1	Pheno Screen 2	Pheno Kamath et al., 2003
F54C4.1	0	NonV	NonV
F54C4.3	NonV	NonV	Gro
C29F9.1	Gro	0	Gro
C29F9.7	NonV	NonV	NonV
F40G9.1	NonV	NonV	Gro
W10C4.b	NonV	NonV	Gro
W07B3.2	NonV	NonV	NonV
F10C5.1	NonV	NonV	NonV
F10C5.2	NonV	NonV	NonV
F30H5.1	NonV	NonV	NonV
W06E11.1	NonV	NonV	NonV
T17H7.5	NonV	NonV	NonV
B0412.4	NonV	NonV	NonV
T24C4.5	NonV	NonV	NonV
F23H11.5	NonV	NonV	NonV
F58B6.3	NonV	NonV	NonV
Y71D11A.b	NonV	NonV	NonV
F53A3.3	NonV	NonV	NonV
W04B5.4	0	Gro	NonV
H19M22.1	NonV	NonV	NonV
H19M22.2	NonV	NonV	Pep
H19M22.3	NonV	NonV	NonV
H06I04.a	NonV	NonV	NonV
H06I04.f	NonV	NonV	NonV
H06I04.h	NonV	NonV	Gro
H06I04.i	NonV	NonV	Gro
R148.7	0	0	Gro
F59A2.1	NonV	NonV	NonV
C34C12.8	NonV	NonV	NonV
M01F1.3	NonV	NonV	NonV
C54C6.1	NonV	NonV	NonV
C32A3.1	NonV	NonV	NonV
R13G10.1	NonV	NonV	Pep
C36A4.4	0	0	NonV
F13B10.2	NonV	NonV	NonV
ZK1058.2	NonV	NonV	NonV
C36E8.5	NonV	NonV	NonV
T02C12.2	NonV	NonV	Gro
E03A3.3	NonV	NonV	NonV
C03C10.3	NonV	NonV	NonV
C16C10.2	NonV	NonV	Gro
C16C10.6	NonV	NonV	NonV
R74.1	NonV	NonV	NonV
F43C1.2	NonV	NonV	NonV
F43C1.3	NonV	Gro	Gro
F43C1.5	0	Gro	NonV
Y44F5A.1	NonV	NonV	Gro
T08A11.2	NonV	NonV	NonV
R10E4.4	NonV	NonV	NonV
H38K22.2	0	Gro	NonV
B0285.1	NonV	NonV	Gro
B0285.2	NonV	NonV	NonV
R07E5.1	0	Gro	Pep
R07E5.3	NonV	NonV	NonV
R07E5.7	Gro	Gro	Gro
R07E5.10	NonV	NonV	NonV
R07E5.14	NonV	NonV	NonV
F56F3.2	NonV	Gro	NonV
F56F3.5	NonV	NonV	NonV
C07G2.3	NonV	NonV	NonV
M88.2	Gro	0	NonV
M88.6	NonV	NonV	Pep
F35G12.8	NonV	NonV	NonV
F35G12.10	NonV	0	NonV
T04A8.6	NonV	NonV	NonV
T04A8.7	NonV	0	NonV

T04A8.11	NonV	0	NonV
B0393.1	NonV	NonV	NonV
B0393.6	NonV	0	NonV
C38D4.3	NonV	0	NonV
C38D4.6	NonV	NonV	NonV
C35D10.1	0	NonV	NonV
C35D10.5	Gro	0	NonV
C35D10.6	Gro	0	Pep
C35D10.13	0	0	NonV
F26F4.10	NonV	NonV	NonV
F26F4.11	NonV	NonV	NonV
C26E6.4	NonV	NonV	NonV
C26E6.6	NonV	NonV	NonV
C26E6.8	0	0	NonV
C27F2.4	0	0	Gro
C27F2.7	Gro	Gro/Pep	NonV
C27F2.8	NonV	NonV	Gro
R144.2	NonV	NonV	NonV
R144.3	NonV	0	NonV
R144.7	Gro	0	NonV
C45G9.5	NonV	NonV	NonV
F54D8.1	NonV	NonV	Pep
F21H11.4	0	0	NonV
T10F2.1	NonV	NonV	NonV
T10F2.3	Gro	0	Pep
T10F2.4	NonV	NonV	NonV
K10D2.2	Gro	Gro	Gro
K10D2.4	0	Gro	NonV
K10D2.6	NonV	NonV	NonV
C34E10.1	0	0	NonV
C34E10.2	0	0	NonV
C34E10.4	Gro	0	Gro
C34E10.6	NonV	NonV	NonV
ZC395.3	Gro	0	Gro
ZC395.8	0	0	Pep
F48E8.2	0	0	NonV
F48E8.5	0	0	NonV
R02F2.7	NonV	NonV	Gro
F09F7.2	Pep	0	Pep
F09F7.3	NonV	NonV	NonV
F56D2.1	NonV	NonV	NonV
F56D2.6	NonV	NonV	NonV
F54E7.2	NonV	NonV	NonV
F54E7.3	NonV	NonV	NonV
F54E7.4	0	0	NonV
B0336.1	0	0	NonV
B0336.2	NonV	NonV	NonV
B0336.3	Gro	0	Gro
B0336.6	NonV	NonV	NonV
B0336.10	NonV	NonV	NonV
R12B2.1	0	Pep	Pep
R12B2.4	NonV	NonV	NonV
R12B2.5	NonV	NonV	NonV
F01F1.7	NonV	NonV	NonV
F01F1.8	NonV	NonV	NonV
F01F1.12	0	NonV	NonV
C28H8.6	NonV	NonV	NonV
F25B5.4	NonV	NonV	NonV
ZK328.1	0	0	NonV
ZK328.2	NonV	NonV	NonV
ZK328.5	NonV	NonV	NonV
T17E9.1	Gro	Gro	NonV
T17E9.2	NonV	NonV	NonV
Y42G9A.c	Gro	nd	NonV
C23G10.3	NonV	NonV	NonV
C23G10.4	NonV	NonV	NonV
C23G10.8	NonV	NonV	NonV
C23G10.9	NonV	NonV	NonV
T12A2.2	NonV	NonV	NonV

T12A2.7	0	0	NonV
F47D12.4	NonV	NonV	Pep
C56G2.2	0	0	NonV
C56G2.6	NonV	NonV	NonV
C16A3.3	NonV	NonV	Gro
C16A3.4	NonV	NonV	NonV
C16A3.5	NonV	NonV	NonV
C16A3.6	NonV	NonV	NonV
C16A3.9	NonV	NonV	NonV
C05D11.2	0	0	NonV
C05D11.3	0	0	NonV
C05D11.9	0	0	Gro
C05D11.10	0	0	NonV
C05D11.11	0	Gro	NonV
C05D11.12	NonV	NonV	NonV
T26A5.3	NonV	NonV	NonV
T26A5.7	Gro	NonV	Pep
T26A5.9	NonV	NonV	NonV
F23F12.2	0	0	NonV
F23F12.6	NonV	NonV	NonV
F20H11.2	NonV	NonV	Gro
F20H11.3	Gro	0	NonV
F20H11.6	NonV	0	Gro
C13B9.3	NonV	NonV	NonV
F37A4.8	Gro	Gro	NonV
R13F6.1	NonV	NonV	NonV
R13F6.9	Pep	Pep	Pep
R13F6.10	0	0	NonV
K04C2.2	NonV	NonV	Gro
F57B9.2	NonV	NonV	NonV
F57B9.3	NonV	NonV	NonV
F57B9.5	NonV	NonV	NonV
F57B9.6	NonV	NonV	NonV
F57B9.10	NonV	NonV	NonV
F31E3.1	NonV	Gro	Pep
F31E3.3	0	0	NonV
F11H8.4	NonV	NonV	NonV
B0280.9	NonV	NonV	Gro
K04G7.1	NonV	NonV	NonV
K04G7.4	NonV	NonV	NonV
F37C12.1	NonV	NonV	NonV
F37C12.3	Gro	Gro	NonV
F37C12.4	NonV	NonV	NonV
F37C12.9	NonV	NonV	NonV
F37C12.11	NonV	NonV	NonV
F37C12.13	NonV	NonV	NonV
R151.3	NonV	NonV	NonV
R151.9	0	NonV	NonV
T20H4.3	NonV	NonV	NonV
T20H4.5	NonV	NonV	NonV
B0361.5	0	0	Gro
B0361.6	0	0	Gro
B0361.8	NonV	NonV	Gro
B0361.10	NonV	NonV	NonV
F08F8.2	NonV	NonV	NonV
T20B12.1	NonV	NonV	NonV
T20B12.2	NonV	NonV	NonV
T20B12.3	NonV	NonV	Gro
T20B12.7	0	0	NonV
T20B12.8	NonV	NonV	NonV
H14A12.2	0	NonV	NonV
H14A12.6	NonV	NonV	Pep
K07D8.1	NonV	NonV	Pep
C07H6.2	0	0	Gro
C07H6.5	NonV	NonV	NonV
C07H6.7	0	0	Pep
R13A5.5	0	Gro	Pep
R13A5.8	NonV	NonV	NonV
R13A5.12	NonV	NonV	NonV

R13A5.13	NonV	NonV	NonV
ZK783.1	NonV	NonV	Pep
ZK686.1	NonV	NonV	Gro
ZK686.2	NonV	NonV	Gro
ZK686.3	NonV	NonV	NonV
C08C3.4	0	NonV	NonV
C27D11.1	NonV	NonV	NonV
ZK652.1	NonV	NonV	NonV
ZK652.4	NonV	NonV	NonV
C02C2.6	0	0	Pep
C29E4.2	NonV	NonV	NonV
C29E4.8	NonV	NonV	NonV
F54H12.1	NonV	NonV	NonV
F54H12.6	NonV	NonV	NonV
F44B9.7	0	Gro	NonV
K12H4.1	Pep	Pep	Pep
K12H4.3	NonV	NonV	NonV
K12H4.4	NonV	NonV	NonV
K12H4.5	NonV	NonV	NonV
K06H7.1	NonV	NonV	NonV
K06H7.6	NonV	0	NonV
C14B9.4	NonV	NonV	NonV
C14B9.7	NonV	NonV	NonV
D2007.4	0	0	NonV
C30A5.7	0	0	Pep
C02F5.1	NonV	NonV	NonV
C02F5.9	NonV	NonV	NonV
F09G8.3	NonV	NonV	NonV
F10E9.4	NonV	NonV	Gro
F10E9.7	NonV	NonV	NonV
F10E9.8	NonV	NonV	NonV
R05D3.4	NonV	NonV	Gro
R05D3.7	Gro	Gro	Pep
ZK1236.3	NonV	NonV	NonV
ZK1236.5	0	NonV	Gro
C30C11.1	NonV	0	NonV
C30C11.2	NonV	NonV	NonV
C30C11.4	NonV	NonV	NonV
C06E1.10	NonV	NonV	NonV
F22B7.5	NonV	NonV	NonV
B0303.5	NonV	0	Gro
B0303.15	NonV	0	NonV
K02D10.5	NonV	NonV	NonV
F54F2.1	NonV	NonV	Pep
F54F2.8	Gro	Gro	Gro
ZK637.7	0	Gro	Gro
ZK637.8	NonV	NonV	NonV
R08D7.1	NonV	NonV	NonV
R08D7.2	NonV	0	NonV
R08D7.3	NonV	NonV	NonV
R107.6	0	NonV	NonV
R107.8	NonV	NonV	Pep
F02A9.2	NonV	0	Pep
F02A9.4	0	0	NonV
F02A9.6	NonV	NonV	NonV
T23G5.1	NonV	NonV	NonV
K04H4.1	NonV	NonV	NonV
C38C10.4	NonV	NonV	NonV
T26G10.1	NonV	NonV	NonV
F54C8.2	NonV	NonV	NonV
F54C8.3	NonV	0	NonV
F54C8.5	0	Gro	Pep
B0464.1	NonV	NonV	NonV
B0464.7	NonV	NonV	NonV
ZK1098.7	0	NonV	NonV
C48B4.9	NonV	NonV	Gro
F58A4.3	NonV	NonV	NonV
F58A4.4	NonV	NonV	NonV
F58A4.8	NonV	NonV	NonV

F58A4.11	NonV	NonV	Pep
C07A9.2	NonV	NonV	NonV
C07A9.3	NonV	NonV	NonV
T05G5.3	NonV	NonV	NonV
T05G5.6	0	Gro	Gro
T05G5.10	0	NonV	NonV
R10E11.1	NonV	NonV	NonV
R10E11.2	NonV	NonV	NonV
R10E11.8	NonV	NonV	NonV
ZK632.1	NonV	NonV	NonV
ZK632.2	0	0	Pep
K03H1.2	NonV	NonV	NonV
T16G12.5	NonV	NonV	Pep
T16H12.4	NonV	0	NonV
ZK1128.3	NonV	NonV	Gro
ZK1128.5	0	0	Pep
T20G5.1	NonV	NonV	NonV
T20G5.2	NonV	NonV	NonV
T20G5.3	NonV	NonV	NonV
T20G5.6	Pep	0	Pep
R01H10.1	NonV	NonV	NonV
T07C4.1	NonV	0	Gro
T07C4.7	Gro	Gro	NonV
M03C11.7	NonV	NonV	NonV
D2045.1	NonV	0	NonV
D2045.6	NonV	NonV	NonV
F43D9.3	NonV	NonV	NonV
F43D9.5	0	0	Gro
W09D10.1	NonV	Gro	Gro
W09D10.3	0	0	Gro
K01G5.1	NonV	NonV	NonV
K01G5.4	NonV	NonV	NonV
K01G5.7	NonV	NonV	NonV
Y39A1B.3	NonV	Gro/Pep	NonV
K11D9.1	0	0	NonV
K11D9.2	NonV	NonV	NonV
M142.4	Gro	Gro	Pep
M142.6	Gro	Gro	Gro
Y48A6B.3	Gro	0	Gro
Y48A6B.5	0	0	Gro
Y48A6B.11	0	0	NonV
Y48A6C.4	NonV	0	Gro
Y47D3A.aa	Gro	NonV	Gro
Y47D3A.c	NonV	NonV	NonV
Y47D3A.d	NonV	NonV	NonV
Y47D3A.1	0	0	Pep
Y47D3B.7	NonV	NonV	NonV
Y47D3B.10	0	0	Pep
Y66A7A.8	NonV	NonV	NonV
Y41C4A.9	0	0	Pep
Y41C4A.10	0	0	NonV
C24H11.6	0	0	Gro
C24H11.7	NonV	NonV	NonV
C18D11.4	NonV	NonV	Gro
Y56A3A.18	NonV	NonV	Gro
Y56A3A.19	0	0	Gro
Y56A3A.32	0	0	NonV
Y75B8A.2	NonV	NonV	NonV
Y75B8A.7	NonV	NonV	Gro
Y75B8A.25	Gro	Gro	Pep
Y49E10.1	NonV	NonV	NonV
Y49E10.2	0	0	NonV
Y49E10.6	NonV	NonV	NonV
Y49E10.14	NonV	NonV	NonV
Y49E10.15	NonV	NonV	NonV
Y49E10.19	NonV	NonV	NonV
Y49E10.21	NonV	NonV	NonV
Y111B2C.e	NonV	NonV	NonV
Y111B2D.b	NonV	NonV	NonV

Y111B2D.c	NonV	0	Pep
Y111B2D.h	NonV	NonV	NonV
Y37D8A.1	NonV	Pep	Pep
Y37D8A.9	0	0	Pep
Y37D8A.10	NonV	NonV	NonV
Y37D8A.14	NonV	NonV	NonV
Y37D8A.16	NonV	NonV	Gro
Y37D8A.18	NonV	0	NonV
ZK1010.1	NonV	NonV	NonV
ZK1010.3	Gro	Gro	Gro
Y39E4B.1	NonV	NonV	NonV
F56A8.6	NonV	NonV	NonV
Y43F4B.5	NonV	NonV	Gro
Y43F4B.6	NonV	NonV	NonV
F53A2.4	NonV	0	NonV
T03F6.5	NonV	0	NonV
F45G2.5	NonV	NonV	Pep
F45G2.11	NonV	NonV	Pep
Y76A2A.2	NonV	NonV	Pep
T27E9.1	NonV	NonV	NonV
Y76A2B.1	NonV	NonV	NonV
T05D4.4	NonV	NonV	Gro
T25C8.2	NonV	NonV	NonV
T12D8.1	NonV	NonV	NonV
T12D8.6	NonV	NonV	NonV
T12D8.7	0	NonV	NonV
ZK520.1	0	0	Gro
W06F12.1	NonV	NonV	NonV
K08E3.5	NonV	NonV	NonV
K08E3.6	NonV	NonV	NonV
C37G2.7	NonV	NonV	NonV
Y119D3_444.b	NonV	NonV	NonV
Y119D3_446.a	NonV	NonV	NonV
Y119D3_446.c	NonV	NonV	NonV
Y119D3_456.a	NonV	NonV	Gro
Y53G8A_9248.c	NonV	NonV	NonV
Y53G8A_9248.d	0	Gro	NonV
Y53G8B_93.d	NonV	NonV	Gro
Y53G8B_1025.a	NonV	NonV	NonV
Y53G8B_1025.b	NonV	NonV	NonV
Y55B1A_115.c	NonV	0	NonV
Y55B1A_115.e	NonV	NonV	Pep
Y71H2_375.b	NonV	NonV	NonV
Y71H2_378.a	NonV	NonV	NonV
Y71H2_381.a	0	0	Gro
Y71H2_388.c	NonV	NonV	NonV
Y71H2_388.d	NonV	NonV	NonV
Y71H2_388.f	0	0	Pep
Y71H2_389.e	NonV	NonV	NonV

Appendix Table 3.1. *C. elegans* chromosome III genes with previously known RNA interference phenotypes

For each gene on *C. elegans* chromosome III with a previously known RNA interference (RNAi) phenotype (Kamath *et al.*, 2003), the Ahringer library RNAi clone gene pairs name ('CE RNAi clone'), the phenotypes observed in this study in two independent experimental setups ('Pheno Screen 1, 'Pheno Screen 2') by using the high-throughput RNAi liquid feeding assay and the RNAi-hypersensitive strain *rrf-3*, and the phenotype observed in the plate feeding screen performed by Kamath *et al.* (Pheno Kamath *et al.*, 2003), are shown. NonV, non-viable RNAi phenotype (sterility and embryonic lethality, respectively). Gro, slowed post-embryonic growth. Pep, defect in post-embryonic development. 0, no RNAi phenotype observed.

Appendix Table 3.2. *C. elegans* chromosome III genes with non-viable RNA interference phenotypes

non-targeting (Ahringer library clone Y95B8A_84.g)					
CE RNAi clone	Emb	Ste	Lga	Weaker Pheno	No Pheno
F54C4.1	0	0	0	0	0
C29F9.7	0	3	0	3-fold	10-fold
W07B3.2	0	3	0	10-fold	0
F10C5.1	0	2	0	2-fold	4-fold
F10C5.2	0	2	0	4-fold	5-fold
F30H5.1	0	3	0	10-fold	0
W06E11.1	0	2	0	4-fold	10-fold
T17H7.5	0	0	1	2-fold	10-fold
B0412.4	0	0	1	2-fold	0
T24C4.5	0	3	0	2-fold	0
F23H11.5	0	3	0	2-fold	10-fold
F58B6.3	2	2	0	2-fold	0
Y71D11A.b	0	0	1	4-fold	0
F53A3.3	0	0	1	2-fold	0
W04B5.4	0	0	0	0	0
H19M22.1	0	0	1	2-fold	0
H19M22.3	0	3	0	2-fold	0
H06I04.a	0	3	0	5-fold	0
H06I04.f	0	0	1	2-fold	0
F59A2.1	0	3	0	2-fold	10-fold
C34C12.8	0	2	0	3-fold	4-fold
M01F1.3	0	3	0	2-fold	5-fold
C54C6.1	0	0	1	2-fold	0
C32A3.1	2	2	0	2-fold	4-fold
C36A4.4	0	0	0	0	0
F13B10.2	0	0	1	5-fold	0
ZK1058.2	0	0	1	3-fold	0
C36E8.5	0	3	0	3-fold	0
E03A3.3	0	3	0	2-fold	10-fold
C03C10.3	0	3	0	3-fold	0
C16C10.6	3	2	0	2-fold	10-fold
R74.1	0	3	0	2-fold	10-fold
F43C1.2	0	2	0	2-fold	3-fold
F43C1.5	0	0	0	0	0
T08A11.2	0	0	1	2-fold	10-fold
R10E4.4	0	3	0	2-fold	10-fold
H38K22.2	0	0	0	0	0
B0285.2	2	2	0	0	2-fold
R07E5.3	0	3	0	2-fold	10-fold
R07E5.10	0	2	0	2-fold	4-fold
R07E5.14	0	3	0	2-fold	10-fold
F56F3.2	2	2	0	0	2-fold
F56F3.5	0	0	1	10-fold	0
C07G2.3	0	0	1	3-fold	0
M88.2	0	0	0	0	0
F35G12.8	0	3	0	3-fold	0
F35G12.10	0	2	0	0	2-fold
T04A8.6	0	3	0	2-fold	5-fold
T04A8.7	1	1	0	3-fold	5-fold
T04A8.11	0	2	0	0	2-fold
B0393.1	0	0	1	5-fold	0
B0393.6	0	1	0	0	2-fold
C38D4.3	1	2	0	2-fold	3-fold
C38D4.6	3	0	0	2-fold	0
C35D10.1	0	0	0	0	0
C35D10.5	0	0	0	0	0
C35D10.13	0	0	0	0	0
F26F4.10	0	2	0	2-fold	3-fold
F26F4.11	0	2	0	0	3-fold
C26E6.4	0	0	1	2-fold	0
C26E6.6	0	2	0	0	2-fold
C26E6.8	0	0	0	0	0
C27F2.7	0	0	0	0	0
R144.2	0	0	1	2-fold	10-fold

R144.3	0	1	0	0	2-fold
R144.7	0	0	0	0	0
C45G9.5	0	2	0	2-fold	4-fold
F21H11.4	0	0	0	0	0
T10F2.1	0	0	1	2-fold	0
T10F2.4	3	2	0	2-fold	10-fold
K10D2.4	0	0	0	0	0
K10D2.6	2	2	0	2-fold	5-fold
C34E10.1	0	0	0	0	0
C34E10.2	0	0	0	0	0
C34E10.6	0	0	1	4-fold	0
F48E8.2	0	0	0	0	0
F48E8.5	0	0	0	0	0
F09F7.3	0	3	0	2-fold	10-fold
F56D2.1	0	3	0	2-fold	5-fold
F56D2.6	0	3	0	2-fold	3-fold
F54E7.2	0	3	0	2-fold	3-fold
F54E7.3	3	2	0	2-fold	0
F54E7.4	0	0	0	0	0
B0336.1	0	0	0	0	0
B0336.2	0	3	0	2-fold	3-fold
B0336.6	0	2	0	2-fold	4-fold
B0336.10	0	0	1	10-fold	0
R12B2.4	0	2	0	2-fold	3-fold
R12B2.5	0	0	1	2-fold	0
F01F1.7	2	2	0	2-fold	4-fold
F01F1.8	0	0	1	2-fold	10-fold
F01F1.12	0	0	0	0	0
C28H8.6	2	2	0	2-fold	4-fold
F25B5.4	0	0	1	0	0
ZK328.1	0	0	0	0	0
ZK328.2	0	0	1	2-fold	0
ZK328.5	0	0	1	4-fold	0
T17E9.1	0	0	0	0	0
T17E9.2	0	2	0	0	2-fold
Y42G9A.c	0	0	0	0	0
C23G10.3	0	0	1	3-fold	0
C23G10.4	0	0	1	0	0
C23G10.8	0	3	0	10-fold	0
C23G10.9	0	3	0	2-fold	4-fold
T12A2.2	0	0	1	2-fold	10-fold
T12A2.7	0	0	0	0	0
C56G2.2	0	0	0	0	0
C56G2.6	0	0	1	5-fold	0
C16A3.4	0	2	0	0	5-fold
C16A3.5	0	2	0	0	3-fold
C16A3.6	0	3	0	2-fold	4-fold
C16A3.9	0	0	1	2-fold	10-fold
C05D11.2	0	0	0	0	0
C05D11.3	0	0	0	0	0
C05D11.10	0	0	0	0	0
C05D11.11	0	0	0	0	0
C05D11.12	2	0	0	2-fold	3-fold
T26A5.3	0	2	0	0	3-fold
T26A5.9	2	2	0	2-fold	10-fold
F23F12.2	0	0	0	0	0
F23F12.6	0	0	1	10-fold	0
F20H11.3	0	0	0	0	0
C13B9.3	0	0	1	10-fold	0
F37A4.8	0	0	0	0	0
R13F6.1	2	2	0	2-fold	3-fold
R13F6.10	0	0	0	0	0
F57B9.2	0	0	1	4-fold	0
F57B9.3	0	0	1	2-fold	5-fold
F57B9.5	0	3	0	2-fold	4-fold
F57B9.6	0	0	1	3-fold	10-fold
F57B9.10	0	0	1	10-fold	0
F31E3.3	0	0	0	0	0
F11H8.4	0	2	0	0	3-fold

K04G7.1	0	2	0	3-fold	4-fold
K04G7.4	0	2	0	0	10-fold
F37C12.1	2	2	0	2-fold	3-fold
F37C12.3	0	0	0	0	0
F37C12.4	0	3	0	0	2-fold
F37C12.9	0	0	1	5-fold	0
F37C12.11	0	0	1	3-fold	0
F37C12.13	2	2	0	2-fold	4-fold
R151.3	0	0	1	2-fold	0
R151.9	0	0	0	0	0
T20H4.3	0	0	1	4-fold	0
T20H4.5	0	2	0	0	2-fold
B0361.10	0	2	0	2-fold	3-fold
F08F8.2	0	2	0	0	2-fold
T20B12.1	0	2	0	0	5-fold
T20B12.2	0	2	0	0	3-fold
T20B12.7	0	0	0	0	0
T20B12.8	0	2	0	0	5-fold
H14A12.2	0	0	0	0	0
C07H6.5	0	2	0	5-fold	10-fold
R13A5.8	0	0	1	5-fold	0
R13A5.12	0	3	0	3-fold	0
R13A5.13	0	3	0	3-fold	0
ZK686.3	0	2	0	3-fold	4-fold
C08C3.4	0	0	0	0	0
C27D11.1	0	0	1	3-fold	0
ZK652.1	0	0	1	2-fold	10-fold
ZK652.4	0	0	1	3-fold	0
C29E4.2	0	3	0	3-fold	0
C29E4.8	0	2	0	3-fold	10-fold
F54H12.1	0	2	0	2-fold	5-fold
F54H12.6	0	2	0	3-fold	4-fold
F44B9.7	0	0	0	0	0
K12H4.3	0	3	0	2-fold	3-fold
K12H4.4	0	2	0	2-fold	3-fold
K12H4.5	0	2	0	2-fold	3-fold
K06H7.1	0	3	0	2-fold	0
K06H7.6	0	2	0	2-fold	3-fold
C14B9.4	0	3	0	2-fold	0
C14B9.7	0	0	1	5-fold	0
D2007.4	0	0	0	0	0
C02F5.1	0	3	0	4-fold	0
C02F5.9	0	0	1	3-fold	0
F09G8.3	0	2	0	0	3-fold
F10E9.7	0	0	1	2-fold	10-fold
F10E9.8	2	2	0	2-fold	3-fold
ZK1236.3	0	3	0	3-fold	10-fold
C30C11.1	0	2	0	0	2-fold
C30C11.2	0	0	1	3-fold	0
C30C11.4	0	2	0	3-fold	4-fold
C06E1.10	0	2	0	2-fold	5-fold
F22B7.5	0	2	0	0	2-fold
B0303.15	0	2	0	0	2-fold
K02D10.5	0	0	1	4-fold	10-fold
ZK637.8	0	3	0	2-fold	10-fold
R08D7.1	2	2	0	2-fold	4-fold
R08D7.2	0	2	0	0	2-fold
R08D7.3	0	3	0	2-fold	0
R107.6	0	0	0	0	0
F02A9.4	0	0	0	0	0
F02A9.6	2	2	0	2-fold	3-fold
T23G5.1	0	3	0	3-fold	0
K04H4.1	0	2	0	2-fold	3-fold
C38C10.4	0	2	0	2-fold	3-fold
T26G10.1	0	3	0	2-fold	10-fold
F54C8.2	2	2	0	2-fold	3-fold
F54C8.3	0	2	0	0	2-fold
B0464.1	0	0	1	2-fold	0
B0464.7	0	2	0	0	3-fold

ZK1098.7	0	0	0	0	0
F58A4.3	3	2	0	3-fold	10-fold
F58A4.4	0	3	0	3-fold	0
F58A4.8	0	2	0	0	2-fold
C07A9.2	2	2	0	3-fold	5-fold
C07A9.3	2	2	0	0	3-fold
T05G5.3	0	3	0	2-fold	0
T05G5.10	0	0	0	0	0
R10E11.1	0	0	1	10-fold	0
R10E11.2	0	0	1	3-fold	0
R10E11.8	0	0	1	0	0
ZK632.1	0	3	0	3-fold	0
K03H1.2	2	2	0	2-fold	3-fold
T16H12.4	0	1	0	0	2-fold
T20G5.1	0	0	1	0	0
T20G5.2	0	3	0	2-fold	10-fold
T20G5.3	0	0	1	0	0
R01H10.1	1	1	0	0	4-fold
T07C4.7	0	0	0	0	0
M03C11.7	2	2	0	2-fold	3-fold
D2045.1	0	2	0	0	2-fold
D2045.6	1	2	0	0	3-fold
F43D9.3	0	0	1	4-fold	0
K01G5.1	0	3	0	2-fold	3-fold
K01G5.4	0	0	1	4-fold	0
K01G5.7	0	3	0	2-fold	5-fold
Y39A1B.3	1	1	0	2-fold	4-fold
K11D9.1	0	0	0	0	0
K11D9.2	0	0	1	2-fold	0
Y48A6B.11	0	0	0	0	0
Y47D3A.c	0	3	0	5-fold	0
Y47D3A.d	0	3	0	2-fold	10-fold
Y47D3B.7	0	0	1	2-fold	0
Y66A7A.8	2	2	0	2-fold	4-fold
Y41C4A.10	0	0	0	0	0
C24H11.7	0	0	1	2-fold	5-fold
Y56A3A.32	0	0	0	0	0
Y75B8A.2	1	1	0	3-fold	4-fold
Y49E10.1	0	0	1	10-fold	0
Y49E10.2	0	0	0	0	0
Y49E10.6	0	0	1	2-fold	10-fold
Y49E10.14	2	2	0	10-fold	0
Y49E10.15	0	0	1	2-fold	10-fold
Y49E10.19	2	2	0	10-fold	0
Y49E10.21	0	2	0	2-fold	3-fold
Y111B2C.e	0	3	0	2-fold	4-fold
Y111B2D.b	0	0	1	0	0
Y111B2D.h	3	2	0	2-fold	10-fold
Y37D8A.10	0	3	0	2-fold	10-fold
Y37D8A.14	0	3	0	2-fold	4-fold
Y37D8A.18	0	2	0	0	2-fold
ZK1010.1	0	0	1	10-fold	0
Y39E4B.1	1	2	0	0	2-fold
F56A8.6	0	3	0	2-fold	10-fold
Y43F4B.6	1	2	0	2-fold	3-fold
F53A2.4	0	2	0	2-fold	3-fold
T03F6.5	0	1	0	0	2-fold
T27E9.1	0	2	0	0	10-fold
Y76A2B.1	2	2	0	3-fold	10-fold
T25C8.2	0	0	1	0	0
T12D8.1	2	2	0	2-fold	4-fold
T12D8.6	3	2	0	3-fold	0
T12D8.7	0	0	0	0	0
W06F12.1	0	3	0	2-fold	10-fold
K08E3.5	2	2	0	2-fold	4-fold
K08E3.6	0	3	0	3-fold	0
C37G2.7	2	2	0	2-fold	3-fold
Y119D3_444.b	0	2	0	0	3-fold
Y119D3_446.a	0	0	1	2-fold	10-fold

Y119D3_446.c	0	2	0	2-fold	3-fold
Y53G8A_9248.c	0	2	0	0	2-fold
Y53G8A_9248.d	0	0	0	0	0
Y53G8A_9248.e	0	0	1	4-fold	10-fold
Y53G8B_1025.a	0	0	1	3-fold	0
Y53G8B_1025.b	0	1	0	0	3-fold
Y53G8B_1025.c	2	2	0	2-fold	3-fold
Y53G8B_1025.d	0	2	0	3-fold	10-fold
Y53G8B_1025.e	0	2	0	3-fold	5-fold
Y55B1A_115.c	0	2	0	2-fold	3-fold
Y71H2_375.b	0	0	1	3-fold	0
Y71H2_378.a					
Y71H2_388.c					
Y71H2_388.d					
Y71H2_389.e					

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CE RNAi clone	Emb	Ste	Lga	Weaker Pheno	No Pheno
F54C4.1	0	2	0	2-fold	2-fold
C29F9.7	3	3	0	3-fold	10-fold
W07B3.2	0	0	1	2-fold	0
F10C5.1	0	2	0	3-fold	3-fold
F10C5.2	0	2	0	2-fold	2-fold
F30H5.1	0	3	0	5-fold	0
W06E11.1	0	2	0	3-fold	3-fold
T17H7.5	nd	nd	nd	nd	nd
B0412.4	0	0	1	2-fold	0
T24C4.5	0	3	0	2-fold	10-fold
F23H11.5	0	3	0	2-fold	4-fold
F58B6.3	2	2	0	2-fold	4-fold
Y71D11A.b	0	0	1	3-fold	0
F53A3.3	0	0	1	3-fold	10-fold
W04B5.4	0	0	0	0	0
H19M22.1	0	0	1	10-fold	10-fold
H19M22.3	0	0	1	2-fold	0
H06I04.a	0	0	1	2-fold	0
H06I04.f	0	0	1	3-fold	0
F59A2.1	0	3	0	2-fold	5-fold
C34C12.8	0	2	0	2-fold	2-fold
M01F1.3	0	2	0	2-fold	3-fold
C54C6.1	0	0	1	2-fold	10-fold
C32A3.1	2	2	0	2-fold	2-fold
C36A4.4	0	0	0	0	0
F13B10.2	0	0	1	0	0
ZK1058.2	0	0	1	2-fold	0
C36E8.5	0	0	1	2-fold	10-fold
E03A3.3	0	0	1	2-fold	3-fold
C03C10.3	0	3	0	2-fold	10-fold
C16C10.6	0	3	0	2-fold	10-fold
R74.1	0	3	0	3-fold	10-fold
F43C1.2	0	2	0	2-fold	2-fold
F43C1.5	0	0	0	0	0
T08A11.2	0	0	1	2-fold	0
R10E4.4	0	3	0	2-fold	5-fold
H38K22.2	0	0	0	0	0
B0285.2	0	2	0	2-fold	2-fold
R07E5.3	0	3	0	2-fold	10-fold
R07E5.10	0	0	0	2-fold	2-fold
R07E5.14	0	3	0	2-fold	5-fold
F56F3.2	0	0	0	0	0
F56F3.5	0	0	1	0	0
C07G2.3	0	0	1	2-fold	10-fold
M88.2	0	0	0	0	0
F35G12.8	0	3	0	4-fold	10-fold
F35G12.10	0	0	0	0	0
T04A8.6	0	3	0	2-fold	3-fold
T04A8.7	0	0	0	0	0
T04A8.11	0	0	0	0	0

B0393.1	0	0	1	3-fold	0
B0393.6	0	0	0	0	0
C38D4.3	0	0	0	0	0
C38D4.6	3	2	0	2-fold	10-fold
C35D10.1	0	2	0	2-fold	4-fold
C35D10.5	0	0	0	0	0
C35D10.13	0	0	0	0	0
F26F4.10	0	2	0	2-fold	3-fold
F26F4.11	0	3	0	2-fold	3-fold
C26E6.4	0	0	1	4-fold	0
C26E6.6	0	2	0	2-fold	2-fold
C26E6.8	0	0	0	0	0
C27F2.7	0	0	0	0	0
R144.2	0	0	1	2-fold	5-fold
R144.3	0	0	0	0	0
R144.7	0	0	0	0	0
C45G9.5	0	2	0	2-fold	4-fold
F21H11.4	0	0	0	0	0
T10F2.1	0	3	0	4-fold	10-fold
T10F2.4	0	3	0	2-fold	10-fold
K10D2.4	0	0	0	0	0
K10D2.6	1	1	0	2-fold	2-fold
C34E10.1	0	0	0	0	0
C34E10.2	0	0	0	0	0
C34E10.6	0	0	1	5-fold	0
F48E8.2	0	0	0	0	0
F48E8.5	0	0	0	0	0
F09F7.3	0	3	0	2-fold	5-fold
F56D2.1	0	0	1	2-fold	5-fold
F56D2.6	0	2	0	3-fold	3-fold
F54E7.2	0	3	0	2-fold	2-fold
F54E7.3	3	2	0	2-fold	10-fold
F54E7.4	0	0	0	0	0
B0336.1	0	0	0	0	0
B0336.2	2	2	0	2-fold	3-fold
B0336.6	1	2	0	2-fold	2-fold
B0336.10	0	0	1	5-fold	0
R12B2.4	0	2	0	2-fold	2-fold
R12B2.5	0	0	1	2-fold	nd
F01F1.7	0	3	0	2-fold	4-fold
F01F1.8	0	0	1	4-fold	0
F01F1.12	2	0	0	2-fold	2-fold
C28H8.6	0	2	0	2-fold	2-fold
F25B5.4	0	0	1	0	0
ZK328.1	0	0	0	0	0
ZK328.2	0	0	1	5-fold	0
ZK328.5	0	0	1	5-fold	0
T17E9.1	0	0	0	0	0
T17E9.2	0	3	0	2-fold	2-fold
Y42G9A.c	nd	nd	nd	nd	nd
C23G10.3	0	0	1	4-fold	0
C23G10.4	0	0	1	0	0
C23G10.8	0	3	0	5-fold	0
C23G10.9	3	2	0	2-fold	4-fold
T12A2.2	0	0	1	2-fold	10-fold
T12A2.7	0	0	0	0	0
C56G2.2	0	0	0	0	0
C56G2.6	0	0	1	5-fold	0
C16A3.4	0	2	0	2-fold	3-fold
C16A3.5	0	2	0	2-fold	3-fold
C16A3.6	0	2	0	3-fold	3-fold
C16A3.9	0	0	1	3-fold	10-fold
C05D11.2	0	0	0	0	0
C05D11.3	0	0	0	0	0
C05D11.10	0	0	0	0	0
C05D11.11	0	0	0	0	0
C05D11.12	1	1	0	2-fold	2-fold
T26A5.3	0	2	0	2-fold	3-fold
T26A5.9	2	2	0	3-fold	4-fold

F23F12.2	0	0	0	0	0
F23F12.6	0	0	1	4-fold	0
F20H11.3	0	0	0	0	0
C13B9.3	0	0	1	3-fold	0
F37A4.8	0	0	0	0	0
R13F6.1	0	2	0	2-fold	5-fold
R13F6.10	0	0	0	0	0
F57B9.2	0	0	1	4-fold	0
F57B9.3	0	0	1	2-fold	4-fold
F57B9.5	0	3	0	2-fold	5-fold
F57B9.6	0	0	1	2-fold	0
F57B9.10	0	0	1	10-fold	0
F31E3.3	0	0	0	0	0
F11H8.4	0	2	0	3-fold	4-fold
K04G7.1	0	2	0	2-fold	4-fold
K04G7.4	0	2	0	4-fold	4-fold
F37C12.1	0	2	0	2-fold	4-fold
F37C12.3	0	0	0	0	0
F37C12.4	0	3	0	2-fold	3-fold
F37C12.9	0	0	1	3-fold	0
F37C12.11	0	0	1	3-fold	0
F37C12.13	0	3	0	2-fold	4-fold
R151.3	0	0	1	4-fold	0
R151.9	0	1	0	2-fold	2-fold
T20H4.3	0	0	1	10-fold	0
T20H4.5	0	2	0	2-fold	3-fold
B0361.10	0	2	0	2-fold	3-fold
F08F8.2	0	1	0	2-fold	2-fold
T20B12.1	0	2	0	3-fold	3-fold
T20B12.2	0	2	0	2-fold	3-fold
T20B12.7	0	0	0	0	0
T20B12.8	0	3	0	2-fold	5-fold
H14A12.2	0	1	0	3-fold	3-fold
C07H6.5	0	2	0	3-fold	4-fold
R13A5.8	0	0	1	5-fold	0
R13A5.12	0	3	0	4-fold	0
R13A5.13	0	3	0	2-fold	10-fold
ZK686.3	0	2	0	3-fold	3-fold
C08C3.4	0	1	0	2-fold	2-fold
C27D11.1	0	0	1	3-fold	0
ZK652.1	0	0	1	2-fold	10-fold
ZK652.4	0	0	1	3-fold	0
C29E4.2	0	3	0	4-fold	0
C29E4.8	0	2	0	2-fold	3-fold
F54H12.1	0	2	0	2-fold	4-fold
F54H12.6	0	3	0	2-fold	3-fold
F44B9.7	0	0	0	0	0
K12H4.3	0	3	0	2-fold	3-fold
K12H4.4	0	2	0	2-fold	3-fold
K12H4.5	0	2	0	2-fold	3-fold
K06H7.1	3	2	0	2-fold	0
K06H7.6	0	0	0	0	0
C14B9.4	0	3	0	3-fold	0
C14B9.7	0	0	1	5-fold	0
D2007.4	0	0	0	0	0
C02F5.1	0	3	0	4-fold	0
C02F5.9	0	0	1	3-fold	0
F09G8.3	0	2	0	3-fold	5-fold
F10E9.7	0	0	1	3-fold	10-fold
F10E9.8	3	2	0	2-fold	3-fold
ZK1236.3	0	3	0	2-fold	10-fold
C30C11.1	0	0	0	0	0
C30C11.2	0	0	1	3-fold	0
C30C11.4	0	2	0	3-fold	3-fold
C06E1.10	0	2	0	2-fold	2-fold
F22B7.5	0	2	0	2-fold	2-fold
B0303.15	0	0	0	0	0
K02D10.5	0	0	1	4-fold	10-fold
ZK637.8	0	2	0	4-fold	10-fold

R08D7.1	2	2	0	2-fold	4-fold
R08D7.2	0	0	0	0	0
R08D7.3	0	3	0	2-fold	10-fold
R107.6	0	2	0	2-fold	3-fold
F02A9.4	0	0	0	0	0
F02A9.6	0	1	0	2-fold	2-fold
T23G5.1	0	3	0	3-fold	0
K04H4.1	2	2	0	2-fold	3-fold
C38C10.4	2	2	0	2-fold	3-fold
T26G10.1	0	2	0	4-fold	10-fold
F54C8.2	2	2	0	2-fold	3-fold
F54C8.3	0	0	0	0	0
B0464.1	0	0	1	2-fold	0
B0464.7	0	2	0	3-fold	4-fold
ZK1098.7	0	2	0	2-fold	2-fold
F58A4.3	3	2	0	3-fold	0
F58A4.4	0	3	0	3-fold	0
F58A4.8	0	2	0	2-fold	3-fold
C07A9.2	2	2	0	4-fold	4-fold
C07A9.3	2	2	0	3-fold	4-fold
T05G5.3	0	3	0	3-fold	0
T05G5.10	0	2	0	2-fold	3-fold
R10E11.1	0	0	1	10-fold	0
R10E11.2	0	0	1	3-fold	0
R10E11.8	0	0	1	0	0
ZK632.1	0	3	0	5-fold	0
K03H1.2	2	2	0	2-fold	2-fold
T16H12.4	0	0	0	0	0
T20G5.1	0	0	1	0	0
T20G5.2	0	2	0	4-fold	5-fold
T20G5.3	0	0	1	0	0
R01H10.1	1	2	0	2-fold	2-fold
T07C4.7	0	0	0	0	0
M03C11.7	2	2	0	2-fold	3-fold
D2045.1	0	0	0	0	0
D2045.6	0	2	0	2-fold	4-fold
F43D9.3	0	0	1	4-fold	0
K01G5.1	2	2	0	2-fold	4-fold
K01G5.4	0	0	1	3-fold	0
K01G5.7	0	0	1	2-fold	4-fold
Y39A1B.3	0	0	0	0	0
K11D9.1	0	0	0	0	0
K11D9.2	0	2	0	10-fold	0
Y48A6B.11	0	0	0	0	0
Y47D3A.c	0	3	0	4-fold	0
Y47D3A.d	0	3	0	2-fold	10-fold
Y47D3B.7	0	0	1	2-fold	0
Y66A7A.8	2	2	0	2-fold	4-fold
Y41C4A.10	0	0	0	0	0
C24H11.7	0	0	1	2-fold	10-fold
Y56A3A.32	0	0	0	0	0
Y75B8A.2	1	1	0	2-fold	0
Y49E10.1	0	0	1	4-fold	0
Y49E10.2	0	0	0	0	0
Y49E10.6	0	0	1	3-fold	10-fold
Y49E10.14	3	2	0	2-fold	0
Y49E10.15	0	0	1	2-fold	0
Y49E10.19	0	3	0	2-fold	0
Y49E10.21	0	2	0	2-fold	2-fold
Y111B2C.e	2	2	0	2-fold	3-fold
Y111B2D.b	0	0	1	10-fold	0
Y111B2D.h	3	2	0	2-fold	0
Y37D8A.10	2	2	0	4-fold	10-fold
Y37D8A.14	0	3	0	2-fold	10-fold
Y37D8A.18	0	0	0	0	0
ZK1010.1	0	0	1	5-fold	0
Y39E4B.1	0	2	0	2-fold	2-fold
F56A8.6	0	2	0	5-fold	5-fold
Y43F4B.6	0	2	0	2-fold	2-fold

F53A2.4	0	0	0	0	0
T03F6.5	0	0	0	0	0
T27E9.1	0	3	0	4-fold	10-fold
Y76A2B.1	0	2	0	3-fold	5-fold
T25C8.2	0	0	1	0	0
T12D8.1	2	2	0	2-fold	3-fold
T12D8.6	3	2	0	2-fold	0
T12D8.7	0	2	0	2-fold	2-fold
W06F12.1	3	2	0	3-fold	0
K08E3.5	2	2	0	2-fold	4-fold
K08E3.6	0	3	0	10-fold	10-fold
C37G2.7	2	2	0	2-fold	2-fold
Y119D3_444.b	0	2	0	2-fold	3-fold
Y119D3_446.a	0	2	0	3-fold	3-fold
Y119D3_446.c	0	2	0	3-fold	3-fold
Y53G8A_9248.c	0	2	0	2-fold	2-fold
Y53G8A_9248.d	0	0	0	0	0
Y53G8B_1025.a	0	0	1	3-fold	0
Y53G8B_1025.b	0	0	1	3-fold	0
Y55B1A_115.c	0	0	0	0	0
Y71H2_375.b	0	2	0	3-fold	3-fold
Y71H2_378.a	0	2	0	3-fold	5-fold
Y71H2_388.c	0	3	0	2-fold	3-fold
Y71H2_388.d	0	2	0	2-fold	2-fold
Y71H2_389.e	0	0	1	5-fold	5-fold

Appendix Table 3.2. *C. elegans* chromosome III genes with non-viable RNA interference phenotypes

For each gene on *C. elegans* chromosome III with a previously reported nonviable RNA interference (RNAi) phenotype (Kamath *et al.*, 2003), the Ahringer library RNAi clone gene pairs name ('CE RNAi clone'), its nonviable RNAi phenotype ('Emb', 'Ste', 'Lga') observed in *rrf-3* when using the high-throughput RNAi liquid feeding assay, the n-fold dilution of targeting bacteria with unrelated double-stranded RNA- (dsRNA) expressing bacteria (non-targeting (Ahringer library clone Y95B8A_84.g) and *lin-31*, respectively), which first resulted in a weaker detectable phenotype of nonviable genes ('Weaker phenotype') and the n-fold dilution that resulted in the loss of any detectable phenotype ('No phenotype'). Emb, embryonic lethal. Ste, sterile. Lga, larval growth arrest. Strengths of phenotypes were encoded numerically ranging from 1 (weak), 2 (medium), to 3 (strong). 0, no observed phenotype or no observed dilution effect in a given category, respectively.

Appendix Table 4.1. *C. elegans* duplicate gene pairs corresponding to single orthologues in *S. cerevisiae* and *D. melanogaster* genomes

SC ID/DM ID	SC essentiality	CE RNAi clone	CE Name	Comments
S000000042/CG7758	non-essential	D1025.2	WBGene00008354	
S000000042/CG7758	essential	F52A8.5	WBGene00009918	
S000000071	non-essential	F19H6.1	WBGene00008956	
S000000071	essential	Y39G10AR.3	WBGene00021461	
S000000136/CG5183	non-essential	C28H8.4	WBGene00016195	
S000000136/CG5183	essential	F09B9.3	WBGene00001331	
S000000194	non-essential	R07B7.5	WBGene00011089	
S000000194	essential	R07B7.4	WBGene00011088	
S000000245	essential	D1009.1	WBGene00017012	
S000000245	essential	F28D1.9	WBGene00009218	
S000000313	non-essential	T21H3.3	WBGene00000552	Lga
S000000313	essential	C13C12.1	WBGene00000285	
S000000331	non-essential	F20B6.2	WBGene00006921	Lga
S000000331	essential	Y110A7A.12	WBGene00006921	
S000000339	non-essential	Y71G12B.27	WBGene00022162	
S000000339	essential	C09G4.3	WBGene00001051	
S000000426	non-essential	C50H11.1	WBGene00016849	
S000000426	essential	F41C3.3	WBGene00018269	
S000000730	essential	C53B4.6	WBGene00008275	
S000000730	essential	F15B10.1	WBGene00017480	
S000000782	non-essential	K07A1.12	WBGene00003036	
S000000782	essential	K07A1.11	WBGene00004312	
S000000807	non-essential	R07E4.4	WBGene00003254	
S000000807	essential	C33H5.14	WBGene00016380	
S000000967/CG5119	essential	Y106G6H.2	WBGene00003902	
S000000967/CG5119	essential	F18H3.3	WBGene00003903	
S000001156	non-essential	F09E10.8	WBGene00017298	
S000001156	essential	K08E3.3	WBGene00010663	
S000001219	non-essential	C46H11.2	WBGene00016728	
S000001219	essential	C01H6.4	WBGene00007254	
S000001285	non-essential	H13N06.5	WBGene00010398	
S000001285	essential	T28F3.3	WBGene00012129	
S000001324/CG9881	non-essential	M01B12.3	WBGene00000205	
S000001324/CG9881	essential	C46H11.3	WBGene00016729	
S000001327/CG17510	non-essential	F13B9.8	WBGene00001425	
S000001327/CG17510	essential	F41G3.4	WBGene00001424	
S000001327/CG17510	non-essential	T25G3.4	WBGene00012031	
S000001327/CG17510	essential	Y50E8A.6	WBGene00013049	
S000001417	non-essential	K08D10.3	WBGene00004386	
S000001417	essential	K08D10.4	WBGene00004385	
S000001448	non-essential	K06A9.1	WBGene00019435	
S000001448	essential	H02F09.3	WBGene00019146	
S000001458	essential	C33H5.7	WBGene00016374	
S000001458	essential	C33H5.6	WBGene00016373	
S000001501	non-essential	C29F7.3	WBGene00007812	
S000001501	essential	F40F8.1	WBGene00009575	
S000001507/CG6092	non-essential	Y53C12A.4	WBGene00013140	
S000001507/CG6092	essential	R02E12.2	WBGene00019827	
S000001672/CG4083	non-essential	T09A5.9	WBGene00011637	
S000001672/CG4083	essential	C06A8.6	WBGene00015516	
S000001676	non-essential	Y51H7C.9	WBGene00021787	
S000001676	essential	K01C8.1	WBGene00010456	
S000001701	non-essential	F52C12.5	WBGene00001253	
S000001701	essential	F55A8.1	WBGene00001186	
S000001873	non-essential	B0024.12	WBGene00001646	
S000001873	essential	T23G11.2	WBGene00001647	
S000001877/CG1969	essential	D1037.4	WBGene00004272	
S000001877/CG1969	essential	T23H2.5	WBGene00004273	
S000001889	non-essential	K08A8.3	WBGene00000591	
S000001889	essential	F10G7.4	WBGene00004737	
S000002161	non-essential	C25G4.1	WBGene00007729	
S000002161	essential	C49C3.13	WBGene00008203	
S000002195	non-essential	T06E8.1	WBGene00011543	

S000002195	essential	F59F4.4	WBGene00010339	
S000002210	non-	F57B9.10	WBGene00004462	Lga
S000002210	essential	F59B2.5	WBGene00010309	
S000002255	non-	D2045.6	WBGene00000836	
S000002255	essential	K08E7.7	WBGene00000841	
S000002290/CG1877	non-	B0286.4	WBGene00003825	
S000002290/CG1877	essential	F44A2.1	WBGene00006499	
S000002324	non-	K04D7.4	WBGene00010558	
S000002324	essential	C09D8.1	WBGene00004215	
S000002389	non-	Y22D7AR.6	WBGene00021260	
S000002389	essential	F30A10.3	WBGene00009262	
S000002424	essential	F43H9.2	WBGene00018398	
S000002424	essential	T22G5.5	WBGene00011932	
S000002469	essential	Y57E12AL.1	WBGene00021956	
S000002469	essential	R11H6.2	WBGene00011250	
S000002512/CG4672	essential	F27D9.1	WBGene00006757	
S000002512/CG4672	essential	T07A9.10	WBGene00020298	
S000002571	essential	F40G9.3	WBGene00006715	
S000002571	essential	C06E2.3	WBGene00006716	
S000002584	non-	ZK265.5	WBGene00013957	
S000002584	essential	F36D1.2	WBGene00009462	
S000002727/CG1067	non-	C44C1.3	WBGene00003563	
1	essential	K03E6.3	WBGene00003565	
S000002727/CG1067	non-	F13H8.3	WBGene00017436	
1	essential	Y43F8C.13	WBGene00012834	
S000002781	non-	F21F3.3	WBGene00017673	
S000002781	essential	M01E11.1	WBGene00019710	
S000002808	essential	R151.6	WBGene00020109	
S000002808	essential	F25D7.1	WBGene00009111	
S000002818/CG1126	essential	T01C8.1	WBGene00020142	
8	essential	PAR2.3	WBGene00019801	
S000002818/CG1126	essential	F49E12.9	WBGene00009902	
8	essential	F49E12.10	WBGene00009903	
S000002819	non-	R03A10.4	WBGene00010984	
S000002819	essential	F28H6.3	WBGene00009232	
S000002885	non-	Y110A7A.6	WBGene00022456	
S000002885	essential	K02B2.1	WBGene00019295	
S000003292/CG1998	non-	F35H8.7	WBGene00006938	
S000003292/CG1998	essential	Y53C12A.1	WBGene00006940	
S000003596/CG6950	non-	C15F1.7	WBGene00004930	
S000003596/CG6950	essential	ZK430.3	WBGene00007036	
S000003691/CG3400	essential	R57.1	WBGene00020082	
S000003691/CG3400	essential	C35C5.2	WBGene00007954	
S000003723	essential	C44E4.3	WBGene00016652	
S000003723	essential	C14F11.1	WBGene00015778	
S000003865/CG1179	non-	F59B2.7	WBGene00004269	
3	essential	T25G12.4	WBGene00004270	
S000003865/CG1179	non-	T03F7.7	WBGene00011404	
3	essential	C34C12.6	WBGene00007925	
S000003887	non-	ZK370.4	WBGene00022718	
S000003887	essential	M110.7	WBGene00010915	
S000004017/CG4233	non-	B0280.4	WBGene00003845	
S000004017/CG4233	essential	C34H3.2	WBGene00003846	
S000004252	non-	C04F6.4	WBGene00006810	
S000004252	essential	K08F9.2	WBGene00010685	
S000004372/CG3248	non-	T05H4.13	WBGene00000110	
5	essential	T08B1.3	WBGene00000111	
S000004372/CG3248	essential	F54F7.1	WBGene00006388	
5	essential	Y111B2A.16	WBGene00006389	
S000004524	non-	C42C1.11	WBGene00016589	
S000004524	essential	ZC416.6	WBGene00022610	
S000004640	non-	F17E5.2	WBGene00008924	
S000004640	essential	F55A11.4	WBGene00010077	
S000004698/CG1072	essential	ZK370.3	WBGene00022717	
4	essential	F08A8.6	WBGene00006484	
S000004698/CG1072	non-	C53A5.3	WBGene00001834	
4	essential	R06C1.1	WBGene00001836	
S000004716/CG1114	non-	F52B5.6	WBGene00004439	
0	essential	F55D10.2	WBGene00004438	

S000004716/CG11140	non-essential	C13G3.3	W08G11.4	WBGene00007554	
S000004840/CG2670	non-essential	C05G5.4	C05G5.4	WBGene00012348	
S000004840/CG2670	essential	F23H11.3	F23H11.3	WBGene00007350	
S000004990/CG10602	essential	C54G7.2	C54G7.2	WBGene00017759	
S000004990/CG10602	essential	C08F8.4	C08F8.4	WBGene00016934	
S000004990/CG10602	non-essential	F02E8.6	F02E8.6	WBGene00007446	
S000005027/CG32103	non-essential	F09G8.4	F09G8.4	WBGene00003561	
S000005027/CG32103	non-essential	R12H7.2	R12H7.2	WBGene00003562	
S000005027/CG32103	non-essential	H22K11.1	H22K11.1	WBGene00000217	
S000005187/CG10971	non-essential	F53C11.7	F53C11.7	WBGene00000216	
S000005187/CG10971	essential	F53C11.8	F53C11.8	WBGene00009976	
S000005187/CG10971	non-essential	K11D2.3	K11D2.3	WBGene00009977	
S000005274	non-essential	F55A12.7	F55A12.7	WBGene00006829	
S000005274	essential	F55G1.5	F55G1.5	WBGene00000150	Lga
S000005487/CG7977	non-essential	F20D1.9	F20D1.9	WBGene00018901	
S000005487/CG7977	essential	T14F9.1	T14F9.1	WBGene00008979	
S000005540	non-essential	F52E1.10	F52E1.10	WBGene00020507	Lga
S000005540	essential	R13A5.10	R13A5.10	WBGene00018698	
S000005668/CG1065	non-essential	Y48A6B.7	Y48A6B.7	WBGene00020052	
S000005668/CG1065	essential	F26A3.1	F26A3.1	WBGene00012968	
S000005701/CG18445	non-essential	F11C1.4	F11C1.4	WBGene00009140	
S000005701/CG18445	essential	B0513.3	B0513.3	WBGene00008693	
S000005701/CG18445	essential	Y47H9C.14	Y47H9C.14	WBGene00004443	
S000005927	non-essential	T06D8.10	T06D8.10	WBGene00012956	
S000005927	essential	C46A5.4	C46A5.4	WBGene00011530	
S000006075	non-essential	VF13D12L.3	VF13D12L.3	WBGene00016700	
S000006075	essential	F36A2.3	F36A2.3	WBGene00012149	
S000006168	non-essential	H17B01.1	H17B01.1	WBGene00009453	
S000006168	essential	R09B5.11	R09B5.11	WBGene00019207	
S000006180	non-essential	C25B8.3	C25B8.3	WBGene00019979	
S000006180	essential	F57F5.1	F57F5.1	WBGene00000786	
S000006225	non-essential	K06B9.5	K06B9.5	WBGene00010204	Lga
S000006225	essential	C04G2.7	C04G2.7	WBGene00003938	
S000006240	non-essential	C32E8.8	C32E8.8	WBGene00001204	
S000006240	essential	F55F8.1	F55F8.1	WBGene00004217	
S000006266	non-essential	ZK994.3	ZK994.3	WBGene00004224	
S000006266	essential	K09C8.5	K09C8.5	WBGene00004256	
S000006351/CG9186	non-essential	C28C12.7	C28C12.7	WBGene00004257	
S000006351/CG9186	essential	C28C12.5	C28C12.5	WBGene00004995	
S000006437/CG10071	non-essential	C50B8.2	C50B8.2	WBGene00004993	
S000006437/CG10071	essential	T27F2.3	T27F2.3	WBGene00000250	
CG10211	non-essential	T20B3.1	T20B3.1	WBGene00000249	
CG10211	essential	F41E7.6	F41E7.6	WBGene00011850	
CG10512	non-essential	F46E10.1	F46E10.1	WBGene00009622	
CG10512	essential	F28F8.2	F28F8.2	WBGene00018488	Lga
CG1086	non-essential	B0416.6	B0416.6	WBGene00009221	
CG1086	essential	M01F1.1	M01F1.1	WBGene00001638	
CG10992	non-essential	F26H9.4	F26H9.4	WBGene00001639	
CG10992	essential	W06B3.1	W06B3.1	WBGene00009176	
CG11049	non-essential	ZK945.8	ZK945.8	WBGene00012295	
CG11049	essential	K10H10.7	K10H10.7	WBGene00014170	
CG11212	non-essential	C47E12.8	C47E12.8	WBGene00010763	
CG11212	essential	R06C7.3	R06C7.3	WBGene00000964	
CG12002	non-essential	C44H4.3	C44H4.3	WBGene00000963	
CG12002	essential	C44H4.2	C44H4.2	WBGene00006366	
CG12070	non-essential	C03H5.4	C03H5.4	WBGene00006370	Lga
CG12070	essential	C07E3.9	C07E3.9	WBGene00015406	
CG12265	non-essential	F27C8.1	F27C8.1	WBGene00007419	
CG12265	essential	F52H2.2	F52H2.2	WBGene00000002	
CG12428	non-essential	F16C3.1	F16C3.1	WBGene00000004	
CG12428	essential	C24B5.1	C24B5.1	WBGene00008885	
CG12512	non-essential	R06C7.7	R06C7.7	WBGene00016044	
CG12512	essential	Y48G1A.6	Y48G1A.6	WBGene00016041	
CG12512	non-essential	C25H3.3	C25H3.3	WBGene00021661	
CG12512	essential	C25H3.14	C25H3.14	WBGene00016112	
CG12512	non-essential	T05A6.1	T05A6.1	WBGene00016123	
CG12512	essential	T05A6.2	T05A6.2	WBGene00000516	
CG12512	non-essential	F23H11.1	F23H11.1	WBGene00000517	
CG12512	essential			WBGene00017757	

CG12512	essential	F54B11.6	WBGene00010029
CG13431	non-	C34F11.9	WBGene00001101
CG13431	essential	C27A2.6	WBGene00001102
CG13645	essential	C37H5.3	WBGene00016507
CG13645	essential	C37H5.2	WBGene00016506
CG13994	non-	K10B2.5	WBGene00019608
CG13994	essential	Y43F8C.14	WBGene00012835
CG1411	non-	C28D4.2	WBGene00000509
CG1411	essential	C52B9.1	WBGene00000510
CG14351	non-	ZK688.6	WBGene00022801
CG14351	essential	ZK112.1	WBGene00003956
CG14507	non-	C24H12.5	WBGene00016074
CG14507	essential	C24H12.2	WBGene00016072
CG1607	non-	H23L24.5	WBGene00004052
CG1607	essential	F20C5.1	WBGene00004051
CG16726	non-	F35G2.4	WBGene00004025
CG16726	essential	Y47D3B.10	WBGene00001077
CG16975	non-	K06A1.5	WBGene00019427
CG16975	essential	F02E8.5	WBGene00017178
CG16986	non-	F45H7.4	WBGene00004183
CG16986	essential	C06E8.3	WBGene00004182
CG1772	essential	F57A10.3	WBGene00001813
CG1772	essential	C30H6.6	WBGene00001811
CG1815	non-	T07D4.1	WBGene00011578
CG1815	essential	T23C6.5	WBGene00020727
CG18361	non-	T05G5.10	WBGene00002064
CG18361	essential	F54C9.1	WBGene00002065
CG1882	non-	F46G10.7	WBGene00004801
CG1882	essential	F46G10.3	WBGene00004802
CG2092	non-	C50D2.8	WBGene00016811
CG2092	essential	Y119D3B.12	WBGene00022489
CG2201	non-	T04G9.4	WBGene00020215
CG2201	essential	T28H10.1	WBGene00012142
CG2493	non-	T13G4.3	WBGene00020490
CG2493	essential	B0416.1	WBGene00015177
CG2669	non-	C10E2.6	WBGene00015676
CG2669	essential	T02G5.12	WBGene00020168
CG2864	non-	F54D8.3	WBGene00000107
CG2864	essential	K04F1.15	WBGene00000108
CG31022	non-	C35C5.3	WBGene00007955
CG31022	essential	F28H7.4	WBGene00009238
CG31033	non-	C55B7.4	WBGene00016943
CG31033	essential	K06A5.6	WBGene00019433
CG3105	non-	R107.8	WBGene00003001
CG3105	essential	F02A9.6	WBGene00001609
CG3156	non-	C01H6.9	WBGene00007258
CG3156	essential	Y18H1A.10	WBGene00021214
CG31645	non-	Y57A10A.28	WBGene00013268
CG31645	essential	Y57A10A.10	WBGene00013255
CG3186	non-	B0495.2	WBGene00015203
CG3186	essential	ZC504.3	WBGene00013917
CG3187	non-	D1037.3	WBGene00001501
CG3187	essential	C54F6.14	WBGene00001500
CG3198	non-	Y62E10A.1	WBGene00004410
CG3198	essential	C37A2.7	WBGene00016493
CG32099	non-	F16B4.8	WBGene00000387
CG32099	essential	ZK637.11	WBGene00000388
CG3280	non-	F33D11.11	WBGene00018008
CG3280	essential	F42G2.5	WBGene00018354
CG3456	non-	F16H9.1	WBGene00004345
CG3456	essential	C05B5.7	WBGene00004344
CG3752	non-	F47G6.4	WBGene00004969
CG3752	essential	Y66H1A.6	WBGene00002041
CG3887	non-	F13G3.7	WBGene00008767
CG3887	essential	Y43C5B.3	WBGene00012786
CG3902	non-	Y49A3A.1	WBGene00013024
CG3902	essential	F22E10.5	WBGene00009057
CG3936	non-	F57C12.5	WBGene00003407
CG3936	essential	F57C12.4	WBGene00003408

CG40080	non-essential	T14G11.3	WBGene00020511	
CG40080		W06H3.1	WBGene00012315	
CG4239		C24G6.6	WBGene00016061	
CG4239		F25C8.2	WBGene00000139	
CG4268		F21A10.2	WBGene00008999	
CG4268		F59B10.1	WBGene00004134	Lga
CG4349		C56C10.3	WBGene00016961	Lga
CG4349		C37C3.3	WBGene00016497	Lga
CG4918		F55F3.1	WBGene00010115	
CG4918		Y47D3A.15	WBGene00012928	
CG4965		C09B8.4	WBGene00015623	
CG4965		T10B11.6	WBGene00020402	
CG5014		C55B6.2	WBGene00001025	
CG5014		Y54E10BL.4	WBGene00001046	
CG5036		Y111B2A.19	WBGene00013739	
CG5036		C13C4.5	WBGene00007549	
CG5695		T21D12.9	WBGene00020649	
CG5695		R13.3	WBGene00011258	
CG5805		C44C1.2	WBGene00016642	
CG5805		R09B5.12	WBGene00019980	
CG6016		F37C12.7	WBGene00018152	
CG6016		C46F4.2	WBGene00016716	
CG6214		F53B1.6	WBGene00018738	
CG6214		C03F11.2	WBGene00015388	
CG6455		ZK1098.3	WBGene00014220	
CG6455		ZK1098.8	WBGene00003504	
CG8032		F53C3.12	WBGene00018755	
CG8032		Y46G5A.24	WBGene00012914	
CG3328		F37H8.5	WBGene00009514	
CG3328		K07D4.8	WBGene00004135	
CG8055		Y25C1A.13	WBGene00021296	
CG8055		F58A6.1	WBGene00019022	
CG8057		F42G10.2	WBGene00003368	
CG8057		VZC374L.1	WBGene00012162	
CG8245		C30G12.7	WBGene00004244	
CG8245		W06B11.2	WBGene00004245	
CG8286				
CG8286				
CG8428				
CG8428				
CG8434				
CG8434				
CG8460				
CG8460				
CG8732				
CG8732				
CG9117				
CG9117				
CG9247				
CG9247				
CG9347				
CG9347				
CG9427				
CG9427				
CG9577				
CG9577				
CG9738				
CG9738				
CG9755				
CG9755				

Appendix Table 4.2. *C. elegans* 1:1 orthologues of *S. cerevisiae* genes

SC Gene	SC essentiality	CE RNAi Clone	CE Name	NonV
2AAA_YEAST	non-	F48E8.5	WBGene00003901	
2ABA_YEAST	essential	F26E4.1	WBGene00006352	x
3HAO_YEAST	non-	K06A4.5	WBGene00010595	
ABC1_YEAST	essential	C35D10.4	WBGene00000767	
ABD1_YEAST	non-	C25A1.3	WBGene00006447	
ABP1_YEAST	essential	K08E3.4	WBGene00010664	
ABPX_YEAST	non-	ZK1058.5	WBGene00014205	
ACBP_YEAST	essential	C44E4.6	WBGene00016655	
ACON_YEAST	essential	F54H12.1	WBGene00000041	x
ADA_YEAST	non-	C06G3.5	WBGene00015551	
ADA1_YEAST	essential	T20B5.1	WBGene00000161	
ADA2_YEAST	non-	F32A5.1	WBGene00017967	
ADB2_YEAST	essential	Y71H2_389.e	WBGene00000160	x
ADB6_YEAST	non-	R11A5.1	WBGene00000163	
ADK_YEAST	essential	R07H5.8	WBGene00011128	
ADPP_YEAST	non-	W02G9.1	WBGene00003579	
ADRO_YEAST	essential	Y62E10A.f	WBGene00013376	
AFG1_YEAST	non-	C30F12.2	WBGene00016261	
AGM1_YEAST	essential	F21D5.1	WBGene00009006	
ALG1_YEAST	non-	T26A5.4	WBGene00020820	
ALG2_YEAST	essential	F09E5.2	WBGene00017282	x
ALG3_YEAST	non-	K09E4.2	WBGene00010720	
ALG6_YEAST	essential	C08B11.8	WBGene00007435	
ALG9_YEAST	non-	C14A4.3	WBGene00007556	
AMDM_YEAST	essential	C34F11.3	WBGene00016415	
AMP2_YEAST	non-	Y116A8A.9	WBGene00003130	
AP10_YEAST	essential	F15H10.3	WBGene00000144	
AP17_YEAST	non-	F02E8.3	WBGene00000157	
AP19_YEAST	essential	F29G9.3	WBGene00000159	
APG6_YEAST	non-	T19E7.3	WBGene00000247	
APG6_YEAST	essential	T19E7.4	WBGene00000247	
APG7_YEAST	essential	M7.5	WBGene00010882	
APG8_YEAST	non-	C32D5.9	WBGene00002980	
APN1_YEAST	essential	T05H10.2	WBGene00000151	
APN2_YEAST	essential	R09B3.1	WBGene00001372	
AR21_YEAST	essential	Y37D8A.1	WBGene00000203	
AR41_YEAST	essential	Y79H2A.6	WBGene00000201	
ARG1_YEAST	non-	D1081.2	WBGene00006844	x
ARG1_YEAST	essential	T21F4.1	WBGene00020658	
ARL1_YEAST	non-	F54C9.10	WBGene00000187	x
ARP2_YEAST	essential	K07C5.1	WBGene00000200	
ARP6_YEAST	non-	C08B11.6	WBGene00007434	
ATC6_YEAST	essential	C10C6.6	WBGene00007514	
ATPB_YEAST	non-	C34E10.6	WBGene00000229	x
ATPD_YEAST	essential	F58F12.1	WBGene00019061	
ATPO_YEAST	non-	F27C1.7	WBGene00017856	x
ATU2_YEAST	essential	Y76A2A.3	WBGene00000834	
ATU2_YEAST	non-	F45G2.11	WBGene00000834	
ATU2_YEAST	essential	Y76A2A.2	WBGene00000834	
ATX1_YEAST	non-	ZK652.2	WBGene00000835	
ATX2_YEAST	essential	T01D3.5	WBGene00011329	
AUT1_YEAST	non-	Y55F3A_746.a	WBGene00021922	
AUT1_YEAST	essential	Y55F3A_746.e	WBGene00021922	
BCS1_YEAST	non-	F54C9.6	WBGene00010042	
BET2_YEAST	essential	B0280.11	WBGene00015099	
BET3_YEAST	non-	ZK1098.5	WBGene00014222	
BET4_YEAST	essential	M57.2	WBGene00019778	
BMS1_YEAST	non-	Y61A9LA_74.b	WBGene00022021	
BMS1_YEAST	essential	Y61A9LA_75.a	WBGene00022021	x
BPH1_YEAST	non-	VT23B5.2	WBGene00012154	
BRX1_YEAST	essential	K12H4.3	WBGene00019678	x
BU31_YEAST	non-	C07A9.2	WBGene00007400	x
BUB2_YEAST	essential	C33F10.2	WBGene00016352	
CAC2_YEAST	non-	Y71G12A_202.	WBGene00022141	

CACM_YEAST	essential	d	WBGene00011122	
CACP_YEAST	non-	R07H5.2	WBGene00007175	
CALX_YEAST	essential	B0395.3	WBGene00000567	
CAP_YEAST	essential	ZK632.6	WBGene00000294	
CAPA_YEAST	non-	F41G4.2	WBGene00000292	x
CAPB_YEAST	essential	D2024.6	WBGene00000293	x
CAT5_YEAST	non-	M106.5	WBGene00000536	
CBF5_YEAST	essential	ZC395.2	WBGene00010478	
CBP3_YEAST	non-	K01G5.5	WBGene00016442	
CC16_YEAST	essential	C35D10.5	WBGene00001281	x
CC27_YEAST	essential	F10B5.6	WBGene00003132	x
CC28_YEAST	non-	Y110A7A.d	WBGene00000405	x
CC42_YEAST	essential	T05G5.3	WBGene00000390	x
CC45_YEAST	non-	R07G3.1	WBGene00009372	
CC45_YEAST	essential	F34D10.2	WBGene00009372	
CC47_YEAST	non-	F34D10.3	WBGene00003159	x
CC54_YEAST	essential	F32D1.10	WBGene00003156	x
CC68_YEAST	non-	Y39G10A_246.	WBGene00018849	
CCHL_YEAST	essential	e	WBGene00011527	
CCL1_YEAST	non-	F55A3.7	WBGene00021714	
CCR4_YEAST	essential	T06D8.6	WBGene00000376	
CDC6_YEAST	non-	Y49F6B.r	WBGene00000382	
CDS1_YEAST	essential	ZC518.3	WBGene00016384	
CEF1_YEAST	non-	C43E11.10	WBGene00008386	x
CEM1_YEAST	essential	C33H5.18	WBGene00008667	
CG48_YEAST	non-	D1081.8	WBGene00015104	x
CH12_YEAST	essential	F10G8.9	WBGene00010676	
CHD1_YEAST	non-	B0280.9	WBGene00010369	
CHL1_YEAST	essential	K08F4.1	WBGene00010839	
CHS5_YEAST	non-	H06O01.2	WBGene00022615	
CLH_YEAST	essential	M03C11.2	WBGene00011867	x
CND1_YEAST	non-	ZC449.5	WBGene00001087	
CNS1_YEAST	essential	T20G5.1	WBGene00015916	
COD1_YEAST	non-	Y39A1B.3	WBGene00021784	x
COD1_YEAST	essential	C17G10.2	WBGene00021784	x
COD1_YEAST	non-	Y51H7C_255.f	WBGene00021784	
COD1_YEAST	essential	Y51H7C_255.g	WBGene00021784	x
COD2_YEAST	essential	Y51H7C_255.b	WBGene00019481	
COPA_YEAST	essential	Y51H7C_255.c	WBGene00022119	x
COPB_YEAST	essential	K07C11.9	WBGene00021292	x
COPD_YEAST	essential	Y71F9A_282.b	WBGene00015734	x
COPG_YEAST	essential	Y25C1A.5	WBGene00011775	x
COPP_YEAST	non-	C13B9.3	WBGene00009542	x
COPZ_YEAST	essential	T14G10.5	WBGene00010333	x
COQ1_YEAST	essential	F38E11.5	WBGene00000761	
COQ1_YEAST	non-	F59E10.3	WBGene00000761	
COQ1_YEAST	essential	C24A11.8	WBGene00000761	
COQ3_YEAST	non-	C24A11.3	WBGene00000763	
COQ4_YEAST	essential	C30H7.1	WBGene00000764	
COQ6_YEAST	non-	Y57G11C.11	WBGene00000766	
CORO_YEAST	essential	T03F1.2	WBGene00000768	
COX6_YEAST	non-	K07B1.2	WBGene00012553	x
COXE_YEAST	essential	R01H10.3	WBGene00018800	
COXG_YEAST	non-	Y37D8A.14	WBGene00022170	x
COXG_YEAST	essential	F54D8.2	WBGene00022170	
COXW_YEAST	non-	Y71H2_388.c	WBGene00011526	
COXX_YEAST	essential	Y71H2_388.f	WBGene00012895	
COXZ_YEAST	non-	T06D8.5	WBGene00010437	
CRC1_YEAST	essential	Y46G5.a	WBGene00000996	
CRD1_YEAST	non-	JC8.5	WBGene00017763	
CSE1_YEAST	essential	F49E8.5	WBGene00002079	x
CSE1_YEAST	non-	F23H11.9	WBGene00002079	x
CTK1_YEAST	essential	Y48G1A_54.b	WBGene00007135	x
CTK1_YEAST	non-	Y48G1A_54.c	WBGene00007135	x
CW41_YEAST	essential	B0285.1	WBGene00008775	
CW43_YEAST	essential	B0285.2	WBGene00011413	
CY1_YEAST	non-	F13H10.4	WBGene00000869	
CYAA_YEAST	essential	T04A8.12	WBGene00009647	
CYB2_YEAST	essential	C54G4.8	WBGene00018286	

DAN4_YEAST	essential	F43C1.1	WBGene00021761	
DAP1_YEAST	essential	F41E6.5	WBGene00006890	
DBP5_YEAST	essential	Y51B11A.a	WBGene00011580	
DBP9_YEAST	essential	K07E3.8	WBGene00016073	x
DBR1_YEAST	essential	T07D4.4	WBGene00000937	
DCAM_YEAST	essential	C24H12.4	WBGene00004875	
DCTD_YEAST	essential	C55B7.8	WBGene00014034	
DF10_YEAST	essential	F47G4.7	WBGene00007102	
DHH1_YEAST	non-	ZK643.2	WBGene00000479	x
DHR1_YEAST	essential	B0024.13	WBGene00015525	x
DHSB_YEAST	essential	C07H6.5	WBGene00006433	x
DIE2_YEAST	non-	C06E1.10	WBGene00011987	
DIM1_YEAST	essential	F42A8.2	WBGene00008455	x
DIP2_YEAST	essential	T24D1.4	WBGene00017435	
DLDH_YEAST	essential	E02H1.1	WBGene00010794	x
DNA2_YEAST	essential	F13H8.2	WBGene00001016	
DNLI_YEAST	non-	LLC1.3	WBGene00002985	x
DNM1_YEAST	essential	F43G6.1	WBGene00001093	
DNPE_YEAST	non-	C29A12.3	WBGene00017163	
DO34_YEAST	essential	T12E12.4	WBGene00011280	
DOA1_YEAST	non-	F01F1.9	WBGene00007333	
DOR1_YEAST	essential	R74.6	WBGene00011736	
DPB2_YEAST	non-	C05C10.6	WBGene00017237	
DPB3_YEAST	essential	T12D8.9	WBGene00013150	
DPD2_YEAST	non-	F08B4.5	WBGene00008722	x
DPD3_YEAST	essential	Y53F4B.d	WBGene00011016	
DPH2_YEAST	non-	F12F6.7	WBGene00007488	
DPH5_YEAST	essential	R04F11.3	WBGene00007194	
DPO2_YEAST	non-	C09G5.3	WBGene00001002	x
DPOA_YEAST	essential	B0491.7	WBGene00012936	x
DPOA_YEAST	essential	R01H10.1	WBGene00012936	x
DPOD_YEAST	essential	Y47D3A.c	WBGene00008645	x
DPOE_YEAST	essential	Y47D3A.d	WBGene00009368	x
DPOG_YEAST	essential	F10C2.4	WBGene00013258	
DPP3_YEAST	essential	F33H2.5	WBGene00008532	
DR48_YEAST	essential	Y57A10A.m	WBGene00004118	
DRS1_YEAST	non-	F02E9.8	WBGene00022148	
DRS1_YEAST	essential	F10F2.9	WBGene00022148	
DSK2_YEAST	essential	Y71G12A_201.a	WBGene00008852	
DTD_YEAST	essential	a	WBGene00004151	
DUR3_YEAST	essential	Y71G12A_203.c	WBGene00000501	
DYHC_YEAST	essential	c	WBGene00000962	x
DYL1_YEAST	essential	F15C11.2	WBGene00001005	x
DYR_YEAST	essential	T16G1.10	WBGene00007974	
E2BA_YEAST	non-	C48D1.3	WBGene00014221	
E2BD_YEAST	essential	T21E12.4	WBGene00008670	x
E2BE_YEAST	non-	T26A5.9	WBGene00008428	x
EF2_YEAST	essential	C36B1.7	WBGene00001167	x
EFG1_YEAST	non-	ZK1098.4	WBGene00009246	x
EFTU_YEAST	essential	F11A3.2	WBGene00007000	x
EGD2_YEAST	non-	D2085.3	WBGene00022042	x
EGD2_YEAST	essential	F25H5.4	WBGene00022042	x
EM24_YEAST	non-	F29C12.4	WBGene00004766	
END1_YEAST	essential	Y71H2_378.a	WBGene00011067	
ENP1_YEAST	non-	Y65B4B_10.b	WBGene00000276	x
ER19_YEAST	essential	Y65B4B_10.d	WBGene00012984	
ERF1_YEAST	non-	W02D7.7	WBGene00020269	x
ERS1_YEAST	essential	R06F6.2	WBGene00008052	
ERV1_YEAST	non-	F57B9.5	WBGene00018955	
ESA1_YEAST	essential	Y48B6A.13a	WBGene00007029	x
ETFA_YEAST	non-	T05H4.6	WBGene00009187	x
ETFB_YEAST	essential	C41C4.7	WBGene00017734	
ETFD_YEAST	non-	F56C11.3	WBGene00002855	x
F16P_YEAST	essential	VC5.4	WBGene00001404	
FAB1_YEAST	non-	F27D4.1	WBGene00004089	
FAB1_YEAST	essential	F23C8.5	WBGene00004089	
FAD1_YEAST	non-	C05D11.12	WBGene00011271	
FBRL_YEAST	essential	K07A3.b	WBGene00001423	x
FKB2_YEAST	non-	C05E7.5	WBGene00001426	

FKH2_YEAST	essential	VF11C1L.1	WBGene00003976	
FLX1_YEAST	non-	R53.1	WBGene00010459	
FMS1_YEAST	essential	T01C3.7	WBGene00000137	
FMS1_YEAST	non-	F36H1.1	WBGene00000137	
FOLE_YEAST	essential	T28H11.4	WBGene00017777	
FOX2_YEAST	non-	K01C8.7	WBGene00000991	
FRDA_YEAST	essential	R13G10.3	WBGene00001486	
FTHC_YEAST	essential	R13G10.2	WBGene00013708	
FU26_YEAST	essential	F25B5.6	WBGene00009499	
FUMH_YEAST	non-	M03A8.1	WBGene00001503	x
G6PD_YEAST	essential	F59G1.7	WBGene00007108	
G6PI_YEAST	non-	Y106G6E.4	WBGene00013597	
GAA1_YEAST	essential	F36H2.2	WBGene00018006	
GALX_YEAST	non-	H14A12.2	WBGene00008132	
GALY_YEAST	essential	B0035.5	WBGene00004106	
GALY_YEAST	non-	Y87G2A.q	WBGene00004106	
GAR1_YEAST	essential	F33D11.9	WBGene00022046	
GATA_YEAST	non-	C47B2.6	WBGene00001794	
GATH_YEAST	essential	C24A8.2	WBGene00021508	
GBLP_YEAST	essential	C24A8.3	WBGene00010556	x
GC14_YEAST	non-	Y66H1A.4	WBGene00012192	
GC20_YEAST	essential	K04D7.3	WBGene00018339	
GCH1_YEAST	non-	Y41D4A_3192.	WBGene00000298	
GCN2_YEAST	essential	a	WBGene00013591	
GCN5_YEAST	non-	K04D7.1	WBGene00021636	
GCR3_YEAST	essential	W02A11.1	WBGene00018156	x
GCS1_YEAST	essential	F42A10.1	WBGene00010500	
GCSP_YEAST	essential	F32G8.6	WBGene00020022	
GCST_YEAST	non-	Y81G3A.3	WBGene00017765	
GDA1_YEAST	essential	Y47G6A_241.b	WBGene00010697	
GDIR_YEAST	non-	F37E3.1	WBGene00004356	
GEF1_YEAST	essential	K02B12.7	WBGene00000532	
GIR2_YEAST	non-	R12C12.1	WBGene00012037	
GLGB_YEAST	essential	F25B4.1	WBGene00011409	
GLN3_YEAST	non-	K08H10.4	WBGene00001249	x
GLO3_YEAST	essential	F46H6.1	WBGene00017217	
GLPK_YEAST	non-	C07H4.2	WBGene00020007	
GLT1_YEAST	essential	T26E3.4	WBGene00012326	x
GLT1_YEAST	essential	T04A8.7	WBGene00012326	
GLY1_YEAST	non-	W09C2.1	WBGene00011291	
GLYC_YEAST	essential	F07F6.4	WBGene00003214	x
GP12_YEAST	non-	R11F4.1	WBGene00013131	
GPI1_YEAST	essential	W07E11.3	WBGene00008504	
GPI3_YEAST	essential	W07E11.1	WBGene00008431	
GPI8_YEAST	essential	R102.4	WBGene00011482	
GRPE_YEAST	non-	C05D11.11	WBGene00007927	
GSH1_YEAST	essential	Y52B11C.1	WBGene00001527	
GSHB_YEAST	essential	F01G4.5	WBGene00010941	
GSHR_YEAST	essential	D2085.6	WBGene00008117	
GTR1_YEAST	non-	T05E11.6	WBGene00006414	
GTR2_YEAST	essential	C34C12.8	WBGene00012497	
GUAA_YEAST	non-	F37B12.2	WBGene00010912	
GUAD_YEAST	essential	M176.2	WBGene00000775	
GUF1_YEAST	non-	C46F11.2	WBGene00022862	
GYP1_YEAST	essential	T24F1.1	WBGene00009322	
GYP2_YEAST	non-	Y24F12A.a	WBGene00012868	
GYP2_YEAST	essential	M106.4	WBGene00012868	
H2AV_YEAST	non-	F38E11.3	WBGene00019947	
HAP2_YEAST	essential	ZK1236.1	WBGene00013178	
HAS1_YEAST	essential	F32B6.8	WBGene00015232	x
HAT1_YEAST	non-	Y38H8A.1	WBGene00010841	
HCM1_YEAST	essential	Y45F10A.6	WBGene00001442	
HDA1_YEAST	essential	R08C7.3	WBGene00018319	
HMCS_YEAST	non-	Y53H1A.d	WBGene00017769	x
HMT1_YEAST	essential	B0511.6	WBGene00013766	
HNT1_YEAST	non-	M03C11.4	WBGene00009002	
HR25_YEAST	essential	C25A1.2	WBGene00002202	
HS49_YEAST	non-	F41H10.6	WBGene00004723	x
HST2_YEAST	essential	F25B4.6	WBGene00004800	

HUL5_YEAST	essential	Y113G7B.17	WBGene00003898	
IDH2_YEAST	essential	F21C3.3	WBGene00009664	x
IF1A_YEAST	essential	C03C10.1	WBGene00019162	x
IF2B_YEAST	essential	C08B11.5	WBGene00010560	x
IF2G_YEAST	essential	R11A8.4	WBGene00021466	x
IF2G_YEAST	non-	Y39A1C.2	WBGene00021466	x
IF2M_YEAST	essential	F43G9.1	WBGene00009771	
IF32_YEAST	non-	H06H21.3	WBGene00001232	x
IF34_YEAST	essential	K04G2.1	WBGene00001230	x
IF39_YEAST	non-	Y39G10A_246.	WBGene00001225	x
IF3A_YEAST	essential	h	WBGene00001209	x
IF3X_YEAST	essential	Y39G10A_246.	WBGene00000550	
IF3Y_YEAST	essential	c	WBGene00014120	
IF5_YEAST	non-	F46B6.6	WBGene00016496	
IF6_YEAST	essential	Y39G10A_237.	WBGene00001234	x
IKI3_YEAST	non-	b	WBGene00022463	
IM13_YEAST	essential	F22B5.2	WBGene00006574	
IM17_YEAST	non-	Y54E2A.11	WBGene00017119	x
IM44_YEAST	essential	C27D11.1	WBGene00020383	x
IMA1_YEAST	non-	F55H2.6	WBGene00002074	x
IMB2_YEAST	essential	ZK858.7	WBGene00002076	x
IMB3_YEAST	non-	C37C3.2	WBGene00002077	x
IMB3_YEAST	essential	C47B2.5	WBGene00002077	x
IME2_YEAST	essential	Y110A7A.e	WBGene00010860	
IMP3_YEAST	non-	DY3.1	WBGene00016740	x
IMP4_YEAST	essential	E04A4.5	WBGene00014083	x
INO1_YEAST	essential	T09B4.9	WBGene00012148	
IPYR_YEAST	essential	F32E10.4	WBGene00008149	x
IRE1_YEAST	non-	R06A4.4	WBGene00002147	
ISC1_YEAST	essential	C53D5.a	WBGene00012105	
ISY1_YEAST	non-	C53D5.i	WBGene00009966	x
KAD1_YEAST	essential	M04C9.5	WBGene00016205	x
KAPR_YEAST	non-	C48B6.2	WBGene00002190	
KAR3_YEAST	essential	ZK795.3	WBGene00002216	
KC2C_YEAST	non-	VF13D12L.1	WBGene00002196	
KEM1_YEAST	essential	C47E12.4	WBGene00012730	
KEM1_YEAST	non-	C41C4.4	WBGene00012730	
KGUA_YEAST	essential	T27F6.6	WBGene00020190	
KIME_YEAST	non-	F53B7.3	WBGene00021534	
KIP1_YEAST	essential	C29E4.8	WBGene00000257	
KYNU_YEAST	non-	R07E4.6	WBGene00015802	
LA17_YEAST	essential	T09A5.2	WBGene00006565	x
LAH1_YEAST	essential	T01G9.6	WBGene00016653	x
LCB1_YEAST	essential	Y39G8C.1	WBGene00016020	x
LCP5_YEAST	essential	Y39G8C.b	WBGene00003059	x
LEO1_YEAST	non-	T03F1.8	WBGene00007110	
LIP5_YEAST	essential	Y42G9A.c	WBGene00010809	x
LONM_YEAST	essential	F23B12.8	WBGene00016391	
LOS1_YEAST	essential	C15H9.7	WBGene00002080	
LSM1_YEAST	non-	Y63D3A.5	WBGene00003076	
LSM2_YEAST	essential	C44E4.4	WBGene00001808	
LSM3_YEAST	non-	C23H3.4	WBGene00003077	
LSM4_YEAST	essential	C48E7.3	WBGene00003078	
LSM5_YEAST	non-	B0035.11	WBGene00003079	
LSM6_YEAST	essential	M01F1.3	WBGene00003080	
LSM7_YEAST	non-	C34B2.6	WBGene00003081	
LYS9_YEAST	essential	C49H3.10	WBGene00019819	
MAD2_YEAST	non-	F40F8.9	WBGene00003161	
MAF1_YEAST	essential	T10G3.6	WBGene00016622	
MAK3_YEAST	non-	Y62E10A.1	WBGene00015074	
MAK5_YEAST	essential	F32A5.7	WBGene00018890	x
MAOX_YEAST	essential	F28F8.3	WBGene00012983	
MCM2_YEAST	essential	Y71G12A_187.	WBGene00003154	x
MCM5_YEAST	non-	b	WBGene00003157	x
MCX1_YEAST	essential	ZK593.7	WBGene00008412	
MDHM_YEAST	non-	R02D3.1	WBGene00003162	x
MDN1_YEAST	essential	Y69A2A_2326.	WBGene00018898	x
MDN1_YEAST	non-	a	WBGene00018898	x
MED7_YEAST	essential	C43H8.2	WBGene00002324	

MEU1_YEAST	non-	B0238.10	WBGene00015064	
MK16_YEAST	essential	F55F8.2	WBGene00015811	x
MK21_YEAST	non-	Y48B6A.12	WBGene00009084	x
MLH1_YEAST	essential	Y17G7B.5	WBGene00003373	
MMS2_YEAST	non-	R10E4.4	WBGene00006730	
MOD5_YEAST	essential	D2030.2	WBGene00001740	
MOT1_YEAST	non-	F20H11.3	WBGene00000274	
MP10_YEAST	essential	F55F10.1	WBGene00013544	x
MPG1_YEAST	non-	F55F10.2	WBGene00016583	x
MPPB_YEAST	essential	Y54E5B.3	WBGene00013880	
MR11_YEAST	non-	B0228.7	WBGene00003405	
MSH2_YEAST	essential	C16A3.6	WBGene00003418	
MSH4_YEAST	non-	F23B12.7	WBGene00001872	
MSH4_YEAST	essential	T28A8.7	WBGene00001872	
MSH5_YEAST	non-	F39B2.2	WBGene00003421	
MSH5_YEAST	essential	ZC395.6	WBGene00003421	
MSH6_YEAST	non-	F15D4.1	WBGene00003422	
MSN4_YEAST	essential	Y75B8A.7	WBGene00018990	
MSP1_YEAST	non-	C42C1.5	WBGene00010557	
MSRA_YEAST	essential	ZC410.2	WBGene00018393	
MSS1_YEAST	essential	ZC302.1	WBGene00009557	
MSS4_YEAST	non-	H26D21.2	WBGene00004087	x
MTHS_YEAST	essential	ZK1127.11	WBGene00015512	
MTO1_YEAST	non-	ZK1127.1	WBGene00009944	
MTR4_YEAST	essential	F09E8.3	WBGene00012342	x
MTRA_YEAST	non-	F09E8.4	WBGene00006647	x
N145_YEAST	essential	Y47G6A_242.c	WBGene00003796	x
NAB4_YEAST	essential	F56F11.3	WBGene00003423	
NADE_YEAST	non-	K04D7.2	WBGene00007698	
NAH2_YEAST	essential	F43E2.5	WBGene00003733	
NAP1_YEAST	non-	F39B2.7	WBGene00017075	
NAT1_YEAST	essential	F55A12.3	WBGene00021754	
NAT1_YEAST	non-	C06A8.1	WBGene00021754	
NB35_YEAST	essential	F52H3.2	WBGene00008664	
NCL1_YEAST	essential	W08D2.7	WBGene00021686	
NCPY_YEAST	non-	F53G2.6	WBGene00019632	x
NDK_YEAST	essential	ZK328.5	WBGene00009119	
NEP1_YEAST	essential	R10E9.1	WBGene00012652	
NFU1_YEAST	non-	C24F3.4	WBGene00003064	
NHP2_YEAST	essential	F57C7.2	WBGene00012964	x
NHPX_YEAST	non-	D2096.8	WBGene00010896	x
NIP7_YEAST	essential	Y50D7_162.b	WBGene00016607	x
NMD3_YEAST	non-	Y50D7_164.a	WBGene00012030	x
NMT_YEAST	essential	F10G8.6	WBGene00020549	x
NOG1_YEAST	non-	Y48G8A_2614.	WBGene00020297	x
NOP2_YEAST	essential	a	WBGene00021073	x
NOP4_YEAST	non-	K10D2.6	WBGene00011043	x
NOP5_YEAST	essential	F25H2.5	WBGene00020915	
NOT1_YEAST	non-	Y39A1A.14	WBGene00003824	
NPR2_YEAST	essential	R10H10.1	WBGene00018635	
NRD1_YEAST	non-	Y48A6B.3	WBGene00017004	
NRK1_YEAST	essential	M28.5	WBGene00001526	
NTF2_YEAST	non-	C43E11.9	WBGene00004305	x
NU49_YEAST	essential	T25G3.3	WBGene00003790	x
O14467	non-	T17E9.2	WBGene00003148	
OAT_YEAST	essential	T07A9.9	WBGene00015814	
ODO1_YEAST	non-	W07E6.1	WBGene00020679	x
ODO2_YEAST	essential	R05H10.2	WBGene00020950	x
ODP2_YEAST	non-	W01B11.3	WBGene00009082	x
ODPA_YEAST	essential	F57B9.2	WBGene00011510	x
ODPB_YEAST	non-	F49E8.1	WBGene00015413	
OM20_YEAST	essential	D1007.7	WBGene00009092	
OM40_YEAST	non-	T19A5.2	WBGene00007686	x
ORC2_YEAST	essential	R05D11.3	WBGene00003882	
ORN_YEAST	non-	Y54E5A.4	WBGene00007429	
OSTA_YEAST	essential	H21P03.1	WBGene00020683	
OSTB_YEAST	non-	C16A3.10	WBGene00011638	x
OSTE_YEAST	essential	T22B11.5	WBGene00000896	x
OSTG_YEAST	non-	W02F12.5	WBGene00022793	x

OXA1_YEAST	essential	F23B12.5	WBGene00007215	x
PAC1_YEAST	non-	T05H10.6	WBGene00003047	
PAC2_YEAST	essential	C04C3.3	WBGene00019503	
PAF1_YEAST	non-	F23H12.2	WBGene00008338	x
PAN3_YEAST	essential	C18E9.6	WBGene00014015	
PBP2_YEAST	essential	F59E10.1	WBGene00017816	
PBS2_YEAST	non-	C08B6.8	WBGene00003186	x
PBS2_YEAST	essential	T22D1.4	WBGene00003186	x
PCH2_YEAST	essential	T09A5.11	WBGene00008641	
PDAT_YEAST	essential	F57B10.10	WBGene00010872	
PDS5_YEAST	essential	ZK686.3	WBGene00001352	
PDX3_YEAST	non-	C01A2.3	WBGene00018996	
PE11_YEAST	essential	T03F6.5	WBGene00014234	
PEP3_YEAST	non-	K07H8.1	WBGene00021058	
PESC_YEAST	essential	C55A6.9	WBGene00003063	x
PESC_YEAST	non-	ZK632.7	WBGene00003063	x
PET8_YEAST	essential	F26B1.2	WBGene00008364	
PEX1_YEAST	non-	Y54E10B_152.	WBGene00004191	
PEX1_YEAST	essential	e	WBGene00004191	
PEX5_YEAST	non-	Y54E10B_152.	WBGene00004194	x
PEX6_YEAST	essential	b	WBGene00004195	
PEXC_YEAST	non-	F10B5.5	WBGene00004197	
PEXD_YEAST	essential	M05B5.4	WBGene00004198	
PF2_YEAST	non-	H38K22.1	WBGene00019220	
PF3_YEAST	essential	F57B9.1	WBGene00006889	x
PF4_YEAST	non-	ZK1128.8	WBGene00007107	
PF5_YEAST	essential	W06B4.3	WBGene00020112	
PF6_YEAST	non-	R13A5.12	WBGene00009004	x
PGK_YEAST	essential	R13A5.13	WBGene00020185	
PHSG_YEAST	non-	D1046.3	WBGene00020696	
PHSG_YEAST	essential	C11H1.4	WBGene00020696	
PHSG_YEAST	non-	C11H1.6	WBGene00020696	
PHSG_YEAST	essential	C34C6.6	WBGene00020696	
PHSG_YEAST	non-	F39G3.7	WBGene00020696	
PHSG_YEAST	essential	F08B12.2	WBGene00020696	
PHSG_YEAST	non-	F32A5.6	WBGene00020696	
PIF1_YEAST	essential	H20J04.d	WBGene00004028	
PIF1_YEAST	essential	T06G6.9	WBGene00004028	
PIF1_YEAST	non-	B0035.4	WBGene00004028	
PIK1_YEAST	essential	R151.9	WBGene00018076	
PIS_YEAST	non-	F21C3.5	WBGene00012897	
PLC1_YEAST	essential	T03F1.3	WBGene00004038	x
PMM_YEAST	non-	F40C5.b	WBGene00009925	x
PNPH_YEAST	essential	F40C5.c	WBGene00019298	
POP1_YEAST	essential	F40C5.d	WBGene00015486	
POP2_YEAST	non-	F40C5.a	WBGene00000369	
POP4_YEAST	essential	F40C5.e	WBGene00007603	
PPE1_YEAST	non-	F40C5.h	WBGene00007188	x
PPT1_YEAST	essential	T22F3.3	WBGene00012665	
PR16_YEAST	non-	Y18H1A_67.d	WBGene00003389	x
PR17_YEAST	essential	Y18H1A_67.f	WBGene00018625	x
PR21_YEAST	essential	Y18H1A_67.c	WBGene00004188	x
PR22_YEAST	non-	F35H12.4	WBGene00003393	x
PR28_YEAST	essential	Y46G5.e	WBGene00017162	x
PR31_YEAST	non-	T01E8.3	WBGene00022458	x
PR39_YEAST	essential	F52B11.2	WBGene00017768	
PR40_YEAST	non-	K02D7.1	WBGene00014218	
PR40_YEAST	essential	C05D11.9	WBGene00014218	
PR43_YEAST	essential	Y56A3A.20	WBGene00018967	x
PR46_YEAST	essential	C15C6.4	WBGene00006481	x
PR12_YEAST	essential	B0464.7	WBGene00004181	x
PROA_YEAST	essential	Y39B6B.ff	WBGene00011938	
PROC_YEAST	non-	K03H1.2	WBGene00010924	
PROF_YEAST	essential	F49D11.1	WBGene00003991	
PRP3_YEAST	essential	W07E6.4	WBGene00010844	x
PRP4_YEAST	essential	EEED8.5	WBGene00007972	x
PRP9_YEAST	essential	F01F1.7	WBGene00011758	x
PRS6_YEAST	essential	Y110A7A.m	WBGene00004503	x
PRS7_YEAST	non-	F25B4.5	WBGene00004501	x

PRSA_YEAST	essential	ZK1098.7	WBGene00004505	x
PSA1_YEAST	essential	ZK1098.1	WBGene00003927	x
PSA2_YEAST	essential	F56D2.6	WBGene00003923	
PSA5_YEAST	essential	D1054.15	WBGene00003926	x
PSA7_YEAST	non-	W02D9.1	WBGene00003925	x
PSB1_YEAST	essential	T22H6.2	WBGene00003952	x
PSB2_YEAST	non-	M153.1	WBGene00003950	x
PSB3_YEAST	essential	K03E6.6	WBGene00003949	x
PSB4_YEAST	essential	M03C11.7	WBGene00003953	x
PSB5_YEAST	essential	C36B1.5	WBGene00003951	x
PSB7_YEAST	essential	T13H5.4	WBGene00003948	x
PSD1_YEAST	non-	F23F12.6	WBGene00015159	
PSD9_YEAST	essential	C52E4.4	WBGene00016623	
PSDA_YEAST	essential	F56H1.4	WBGene00018239	
PSDA_YEAST	essential	CD4.6	WBGene00018239	x
PSF2_YEAST	non-	D1054.2	WBGene00009287	x
PSP2_YEAST	essential	F25H2.9	WBGene00020726	
PT56_YEAST	essential	C36B1.4	WBGene00012864	
PT91_YEAST	essential	C02F5.3	WBGene00012483	
PUF3_YEAST	non-	T20F5.2	WBGene00004245	
PUR1_YEAST	essential	Y38A8.2	WBGene00011407	
PUR2_YEAST	essential	F39H11.5	WBGene00018174	
PUR4_YEAST	non-	K05C4.1	WBGene00008654	
PUR8_YEAST	essential	C47B2.4	WBGene00011064	x
PURA_YEAST	non-	B0361.5	WBGene00016509	
PUS3_YEAST	essential	C44B7.1	WBGene00006473	
PUT2_YEAST	non-	F40G9.1	WBGene00000112	
PUT2_YEAST	essential	W10C4.b	WBGene00000112	
PWP2_YEAST	non-	F31C3.5	WBGene00018891	x
PYR1_YEAST	essential	T23C6.2	WBGene00004259	x
PYRD_YEAST	non-	Y45F3A.9	WBGene00020932	
PYRF_YEAST	essential	Y18D10A.16	WBGene00011559	
Q02804	non-	W06B11.2	WBGene00021841	
Q02875	essential	T04A8.5	WBGene00016002	
Q02889	non-	F38B6.4	WBGene00008860	
Q02890	essential	F10F2.2	WBGene00010160	
Q02908	non-	R06C7.5	WBGene00014123	
Q03195	essential	C37H5.6	WBGene00012714	x
Q03201	non-	E02H1.3	WBGene00012556	
Q03390	essential	Y57G7A.10	WBGene00018290	
Q03761	essential	F56D12.1	WBGene00006396	
Q03778	essential	F55F8.3	WBGene00011224	
Q03786	non-	D2085.1	WBGene00017818	
Q03920	essential	W02D3.2	WBGene00016341	
Q03940	non-	T07C4.1	WBGene00007784	x
Q04048	essential	Y54E10B_159.	WBGene00016837	x
Q04049	non-	i	WBGene00018721	
Q04081	essential	C18H9.3	WBGene00007137	
Q04149	non-	F15D4.3	WBGene00016602	
Q04311	essential	Y53H1C.a	WBGene00019457	
Q04396	essential	ZK863.3	WBGene00020895	
Q04430	essential	Y39E4B.1	WBGene00004068	
Q04600	non-	Y37D8A.18	WBGene00016113	
Q05498	essential	F41E6.9	WBGene00009266	x
Q05521	non-	Y56A3A.4	WBGene00018756	
Q05583	essential	R10H10.6	WBGene00012479	
Q05946	non-	F26D11.1	WBGene00013143	x
Q06102	essential	C33C12.9	WBGene00008689	x
Q06106	non-	C27H6.2	WBGene00004315	x
Q06132	essential	C50F2.3	WBGene00013129	
Q06143	non-	F53A3.2	WBGene00019656	
Q06152	essential	B0285.4	WBGene00011451	
Q06338	essential	C43E11.2	WBGene00022851	x
Q06344	essential	K06H7.3	WBGene00010231	x
Q06385	essential	T28D9.3	WBGene00021644	x
Q06505	essential	C10G11.5	WBGene00008729	
Q06510	non-	C25H3.4	WBGene00006491	
Q06632	essential	F30A10.9	WBGene00022301	x
Q06632	non-	F53C3.13	WBGene00022301	x

Q06672	essential	Y18D10A.9	WBGene00013109	x
Q06685	non-	Y53C12B.1	WBGene00018508	
Q06696	essential	F11A10.3	WBGene00008919	
Q07381	non-	T23F6.4	WBGene00006497	x
Q07457	essential	Y52B11A.10	WBGene00007008	
Q07508	non-	K11G12.5	WBGene00015207	
Q07830	essential	T04H1.5	WBGene00016159	
Q07896	non-	ZK1127.4	WBGene00016508	x
Q07914	essential	F58B3.4	WBGene00001039	
Q08004	essential	Y47G6A_247.a	WBGene00013236	
Q08023	non-	F13B12.1	WBGene00010768	
Q08444	essential	ZK809.2	WBGene00021843	
Q08444	essential	Y76B12C_65.a	WBGene00021843	
Q08685	essential	Y76B12C_66.c	WBGene00010304	
Q08723	non-	Y51H4A.m	WBGene00004464	x
Q08726	essential	F46F11.1	WBGene00015029	
Q08920	non-	F17C11.8	WBGene00009141	x
Q08951	essential	F10G7.1	WBGene00000162	
Q08952	essential	R05D3.4	WBGene00018700	
Q08963	essential	B0495.8	WBGene00019223	
Q08971	non-	C27A12.9	WBGene00013200	
Q12000	essential	C37H5.5	WBGene00009189	
Q12004	non-	T19B4.4	WBGene00014230	
Q12028	essential	Y56A3A.18	WBGene00000158	x
Q12029	essential	K11D2.1	WBGene00005150	
Q12035	essential	Y54E10B_159.	WBGene00021715	
Q12049	non-	e	WBGene00017158	
Q12052	essential	Y54E10B_159.	WBGene00011631	x
Q12059	non-	g	WBGene00006735	
Q12090	essential	F59A2.4	WBGene00004095	
Q12102	non-	R12E2.3	WBGene00017313	x
Q12118	essential	B0207.6	WBGene00019893	
Q12142	essential	F26A3.2	WBGene00020706	
Q12186	essential	W09G10.4	WBGene00013808	x
Q12199	essential	F52E1.13	WBGene00022803	
Q12275	essential	H20J04.c	WBGene00017882	x
Q12280	non-	Y54E5A.5	WBGene00003980	
Q12309	essential	F27D4.4	WBGene00019762	
Q12311	non-	ZK1128.4	WBGene00003034	
Q12354	essential	Y105E8C.n	WBGene00010564	
Q12368	non-	C41C4.2	WBGene00022794	
Q12383	essential	Y49F6B.q	WBGene00013026	
Q12395	non-	F01F1.1	WBGene00010428	x
Q12400	essential	T08G11.4	WBGene00009131	
Q12449	non-	C26E6.8	WBGene00007235	
Q12453	essential	F52C9.4	WBGene00012337	
Q12463	non-	F09G2.4	WBGene00022107	
Q12463	essential	R05F9.10	WBGene00022107	
Q12464	non-	T22H9.2	WBGene00020687	x
Q12468	essential	Y116A8C.32	WBGene00000817	
Q12481	non-	C02C2.6	WBGene00020705	
Q12483	essential	F28B3.1	WBGene00016167	
Q12500	non-	F09C3.1	WBGene00020822	
Q12511	essential	M03F8.3	WBGene00022832	
Q874G8	non-	F42A9.2	WBGene00013025	x
Q92317	essential	K04G2.5	WBGene00001092	
Q99190	non-	ZK686.4	WBGene00000198	
Q99207	essential	Y49A3A.3	WBGene00021660	x
Q99216	essential	H38K22.2	WBGene00013144	
Q99247	non-	F25H8.1	WBGene00009441	
Q99344	essential	C01G10.8	WBGene00004341	
QOR_YEAST	non-	W07G4.3	WBGene00009554	
QRI7_YEAST	essential	Y71F9A_270.a	WBGene00007237	
R10A_YEAST	essential	Y71F9A_270.b	WBGene00004412	x
R161_YEAST	non-	T22D1.10	WBGene00010272	
R167_YEAST	essential	B0547.1	WBGene00020209	
R167_YEAST	essential	T22H9.1	WBGene00020209	
RA14_YEAST	essential	C27F2.5	WBGene00006963	
RA23_YEAST	essential	T26A5.6	WBGene00013924	

RA27_YEAST	non-	ZK973.a	WBGene00000794	x
RA50_YEAST	essential	Y49A3A.2	WBGene00004296	
RA51_YEAST	non-	F53A2.5	WBGene00004297	
RA54_YEAST	essential	C15F1.c	WBGene00004298	
RAD1_YEAST	non-	Y48G1A_54.d	WBGene00008140	
RAD2_YEAST	essential	Y53C12B.2	WBGene00019004	
RAD5_YEAST	non-	F35G12.4	WBGene00010061	
RAM1_YEAST	essential	F11H8.1	WBGene00009083	
RAM2_YEAST	essential	F39B2.3	WBGene00019823	
RBSK_YEAST	non-	C01G10.10	WBGene00008548	
RBX1_YEAST	essential	Y71F9A_294.c	WBGene00004320	x
RCC1_YEAST	non-	F58G6.1	WBGene00004304	x
RCL1_YEAST	essential	T04C9.1	WBGene00022852	x
RER1_YEAST	non-	ZK328.3	WBGene00009783	
REV1_YEAST	essential	K07G5.2	WBGene00014066	x
RF1M_YEAST	essential	ZK20.3	WBGene00020993	
RFA1_YEAST	non-	Y47G6A_247.i	WBGene00017546	x
RFC1_YEAST	essential	T04H1.4	WBGene00004337	
RFC2_YEAST	essential	Y43C5A.6	WBGene00004340	
RFC4_YEAST	non-	W06D4.6	WBGene00004338	
RFC5_YEAST	essential	C47D12.8	WBGene00004339	
RGD1_YEAST	essential	F57B10.6	WBGene00001559	
RGD1_YEAST	essential	F54E12.2	WBGene00001559	
RIM2_YEAST	essential	F23B12.6	WBGene00011662	
RIO1_YEAST	essential	R02D3.5	WBGene00019698	
RIR2_YEAST	essential	F07A11.5	WBGene00004392	x
RL10_YEAST	essential	ZK287.5	WBGene00004421	x
RL12_YEAST	essential	C26D10.1	WBGene00004424	x
RL18_YEAST	essential	ZK1127.5	WBGene00004430	x
RL19_YEAST	non-	F46C5.8	WBGene00004431	x
RL2_YEAST	essential	ZK675.2	WBGene00004413	x
RL20_YEAST	essential	W03F8.3	WBGene00004432	x
RL20_YEAST	essential	F18A1.5	WBGene00004432	x
RL23_YEAST	essential	C54G10.2	WBGene00004435	x
RL3_YEAST	essential	F31E3.3	WBGene00004414	x
RL30_YEAST	non-	F58F6.4	WBGene00004444	x
RL35_YEAST	essential	C39E9.13	WBGene00004449	x
RL38_YEAST	non-	F45H7.2	WBGene00004452	x
RL39_YEAST	essential	F45H7.3	WBGene00004453	
RL43_YEAST	non-	T09F3.2	WBGene00004456	
RL5_YEAST	essential	M01B12.5	WBGene00004416	x
RLA0_YEAST	non-	C03C10.3	WBGene00004408	x
RLR1_YEAST	essential	F10B5.1	WBGene00015813	
RM09_YEAST	non-	JC8.3	WBGene00016142	x
RM19_YEAST	essential	Y45F10D.12	WBGene00015133	
RN15_YEAST	non-	C09D4.5	WBGene00000774	x
RNH1_YEAST	essential	B0250.1	WBGene00019088	
ROK1_YEAST	non-	E04A4.8	WBGene00011032	
ROX1_YEAST	essential	Y17G9B.e	WBGene00001560	
ROX1_YEAST	non-	B0336.10	WBGene00001560	
RPA2_YEAST	essential	F13B10.2	WBGene00008781	x
RPA9_YEAST	essential	Y106G6H.3	WBGene00007616	x
RPB1_YEAST	essential	ZK652.4	WBGene00000123	
RPB2_YEAST	non-	C06B8.8	WBGene00016140	x
RPB3_YEAST	essential	C26F1.9	WBGene00007971	x
RPB6_YEAST	essential	Y48B6A.2	WBGene00007355	
RPB7_YEAST	essential	F54C9.5	WBGene00021845	x
RPB8_YEAST	essential	F25H2.10	WBGene00017830	x
RPB_YEAST	non-	C16A3.8	WBGene00012187	x
RPC1_YEAST	essential	C26E6.6	WBGene00004411	x
RPC2_YEAST	non-	B0303.15	WBGene00017300	x
RPC5_YEAST	essential	F56A8.6	WBGene00019275	x
RPC6_YEAST	non-	F59A6.6	WBGene00021112	
RPC9_YEAST	essential	R05D11.4	WBGene00010230	
RPCY_YEAST	non-	T22H6.6	WBGene00014111	x
RPCZ_YEAST	essential	C52G5.1	WBGene00022309	
RPF1_YEAST	non-	F14B4.3	WBGene00009711	x
RPIA_YEAST	essential	C15H11.8	WBGene00015101	
RPN1_YEAST	non-	F36A4.7	WBGene00004458	x

RPN2_YEAST	essential	C26E6.4	WBGene00004459	x
RPN3_YEAST	non-	C36B1.3	WBGene00004460	x
RPN5_YEAST	essential	C06A1.5	WBGene00004461	
RPN7_YEAST	non-	Y54E10B_159.	WBGene00004463	
RPN9_YEAST	essential	c	WBGene00004465	
RPNA_YEAST	non-	F26F4.11	WBGene00004466	
RPNC_YEAST	essential	W01G7.3	WBGene00004468	
RR40_YEAST	non-	C42D4.8	WBGene00010325	x
RR41_YEAST	essential	F09F7.3	WBGene00007201	x
RR44_YEAST	non-	H43I07.2	WBGene00001001	x
RR45_YEAST	essential	W09C3.4	WBGene00018154	x
RRN3_YEAST	essential	F58A4.9	WBGene00007980	
RRP1_YEAST	non-	ZK856.10	WBGene00008151	x
RRP3_YEAST	essential	Y77E11A_3443	WBGene00012059	x
RRP5_YEAST	non-	.q	WBGene00015808	
RRP6_YEAST	essential	F44G4.1	WBGene00000796	x
RRS1_YEAST	non-	B0280.3	WBGene00007617	x
RS11_YEAST	essential	T22D1.9	WBGene00004480	x
RS13_YEAST	essential	C23G10.4	WBGene00004482	
RS15_YEAST	essential	C30C11.2	WBGene00004484	x
RS16_YEAST	non-	F10G7.8	WBGene00004485	x
RS18_YEAST	essential	F49C12.8	WBGene00004487	x
RS2_YEAST	non-	T06D8.8	WBGene00004471	x
RS20_YEAST	essential	B0205.3	WBGene00004489	x
RS21_YEAST	non-	ZK20.5	WBGene00004490	x
RS22_YEAST	essential	F59C6.4	WBGene00004491	x
RS23_YEAST	non-	B0564.1	WBGene00004492	x
RS24_YEAST	essential	C04G2.6	WBGene00004493	x
RS25_YEAST	non-	F37C12.13	WBGene00004494	
RS28_YEAST	essential	C36E8.1	WBGene00004497	
RS3_YEAST	non-	C47E12.7	WBGene00004472	x
RS30_YEAST	essential	T26G10.1	WBGene00004499	
RS37_YEAST	non-	C16A3.3	WBGene00006725	x
RS37_YEAST	essential	C14A4.4	WBGene00006725	x
RS37_YEAST	non-	C15H11.9	WBGene00006725	x
RS37_YEAST	essential	F40F11.1	WBGene00006725	x
RS5_YEAST	non-	C16A3.9	WBGene00004474	x
RS8_YEAST	essential	F36A2.6	WBGene00004477	x
RS8_YEAST	non-	T01C3.6	WBGene00004477	x
RSD1_YEAST	essential	Y57G11C.16	WBGene00009264	x
RSMB_YEAST	non-	C49H3.11	WBGene00004915	x
RSP5_YEAST	essential	Y105E8C.e	WBGene00007009	
RSP5_YEAST	non-	F37C12.11	WBGene00007009	
RSP5_YEAST	essential	F53A3.3	WBGene00007009	x
RT04_YEAST	non-	F28D1.7	WBGene00020718	
RTF1_YEAST	essential	T07A9.11	WBGene00009103	x
RTS2_YEAST	non-	K02B2.5	WBGene00013128	x
RUXE_YEAST	essential	Y41D4A_3613.	WBGene00004919	x
RUXF_YEAST	non-	a	WBGene00004918	x
RUXG_YEAST	essential	C23G10.3	WBGene00004920	x
S160_YEAST	non-	C26F1.4	WBGene00007463	
S3B1_YEAST	essential	H06I04.a	WBGene00011605	x
SAHH_YEAST	non-	H06I04.f	WBGene00019322	x
SAR1_YEAST	essential	Y53G8B_1025.	WBGene00022678	x
SC10_YEAST	non-	a	WBGene00016376	
SC13_YEAST	essential	Y53G8B_1025.	WBGene00003806	x
SC15_YEAST	non-	b	WBGene00016188	
SC17_YEAST	essential	T05E11.1	WBGene00017016	
SC18_YEAST	non-	F42C5.8	WBGene00003818	x
SC18_YEAST	essential	F42C5.1	WBGene00003818	x
SC22_YEAST	non-	F30A10.6	WBGene00018853	
SC23_YEAST	essential	W08E3.1	WBGene00004754	x
SC62_YEAST	non-	Y65B4B_10.a	WBGene00007683	
SC65_YEAST	essential	Y65B4B_10.e	WBGene00018159	
SCD6_YEAST	non-	Y65B4B_11.a	WBGene00012484	
SCS7_YEAST	essential	T23B12.3	WBGene00007707	x
SEC6_YEAST	essential	F25B3.6	WBGene00017284	x
SEC7_YEAST	essential	Y52B11A.9	WBGene00012386	x
SEC7_YEAST	non-	Y49E10.15	WBGene00012386	x

SED5_YEAST	essential	ZK652.1	WBGene00006373	x
SEH1_YEAST	essential	Y71F9B_286.b	WBGene00003804	
SERB_YEAST	non-	C08H9.2	WBGene00013379	
SET2_YEAST	essential	T08A11.2	WBGene00021515	
SET2_YEAST	essential	K02F2.2	WBGene00021515	
SFT2_YEAST	non-	ZK180.4	WBGene00007690	
SFT2_YEAST	essential	C33H5.9	WBGene00007690	x
SGPL_YEAST	essential	Y77E11A_3670	WBGene00004981	
SGS1_YEAST	non-	.c	WBGene00001865	
SGT1_YEAST	essential	C28G1.3	WBGene00008371	
SIK1_YEAST	non-	D1014.3	WBGene00010627	x
SIN3_YEAST	essential	ZK1014.1	WBGene00004117	
SIS1_YEAST	essential	H15N14.1	WBGene00001031	
SKI2_YEAST	non-	F55A4.1	WBGene00008502	
SLU7_YEAST	essential	Y113G7A.3	WBGene00010629	x
SLY1_YEAST	essential	C18E9.2	WBGene00009654	x
SMC1_YEAST	non-	F37F2.2	WBGene00001860	x
SMC2_YEAST	essential	Y18D10A.17	WBGene00003367	
SMC2_YEAST	essential	C25A1.5	WBGene00003367	x
SMC3_YEAST	essential	F09E5.6	WBGene00004873	
SMC4_YEAST	essential	Y87G2A.y	WBGene00004874	x
SMD1_YEAST	essential	Y6B3A.1	WBGene00004916	x
SMD2_YEAST	essential	F55A11.2	WBGene00004917	x
SMD3_YEAST	essential	Y43F4B.4	WBGene00004914	x
SMM1_YEAST	essential	Y62E10A.m	WBGene00013201	
SMP2_YEAST	essential	Y41D4A_2615.	WBGene00010425	
SMT3_YEAST	non-	a	WBGene00004888	x
SNF4_YEAST	essential	Y41D4A_3457.	WBGene00013732	
SNF5_YEAST	essential	b	WBGene00011111	x
SNX3_YEAST	essential	C18E9.10	WBGene00006503	
SNX4_YEAST	essential	C18E9.4	WBGene00003086	
SNX4_YEAST	essential	Y66H1B.4	WBGene00003086	
SOF1_YEAST	essential	T04A11.6	WBGene00022742	x
SOK1_YEAST	essential	D1054.3	WBGene00010875	
SP11_YEAST	essential	K07C5.4	WBGene00004985	
SP14_YEAST	non-	F02E9.4	WBGene00004040	
SP14_YEAST	essential	F54D5.8	WBGene00004040	
SP14_YEAST	essential	F01G4.3	WBGene00004040	
SPB1_YEAST	essential	K07C5.6	WBGene00019168	x
SPC3_YEAST	essential	F43D9.3	WBGene00019679	x
SPEE_YEAST	essential	F28B3.7	WBGene00012909	
SPT4_YEAST	essential	M106.1	WBGene00005014	
SPT5_YEAST	essential	R06F6.10	WBGene00005015	x
SR40_YEAST	essential	Y47D3A.aa	WBGene00000931	
SR54_YEAST	essential	F35G12.8	WBGene00009012	
SR68_YEAST	essential	T28D9.10	WBGene00010097	x
SRPR_YEAST	essential	C52E4.3	WBGene00009521	x
SSL1_YEAST	non-	Y116A8C.42	WBGene00011814	x
ST20_YEAST	essential	Y54E5A.6	WBGene00003911	
ST22_YEAST	non-	H37A05.1	WBGene00015658	
ST24_YEAST	essential	K12C11.2	WBGene00001405	
STI1_YEAST	non-	Y111B2C.h	WBGene00019983	
STT3_YEAST	essential	R07E5.3	WBGene00020437	x
SUB2_YEAST	non-	W06D4.5	WBGene00001840	x
SUCB_YEAST	essential	Y37A1B.2a	WBGene00009812	
SUG2_YEAST	essential	Y37A1B.3	WBGene00004504	x
SULX_YEAST	non-	ZK430.7	WBGene00017464	
SUV3_YEAST	essential	M05D6.2	WBGene00007444	
SYAC_YEAST	non-	T05E11.4	WBGene00000197	x
SYC_YEAST	essential	C04G6.5	WBGene00000800	x
SYDC_YEAST	non-	C04G6.2	WBGene00001094	x
SYDM_YEAST	essential	C04G6.3	WBGene00001095	
SYEM_YEAST	non-	H06I04.h	WBGene00001338	
SYFA_YEAST	essential	K12H4.4	WBGene00001497	x
SYFB_YEAST	non-	Y46G5.w	WBGene00001498	x
SYH_YEAST	essential	F54C4.2	WBGene00002001	x
SYIC_YEAST	non-	K08E4.1	WBGene00002152	x
SYIM_YEAST	essential	C25A1.10	WBGene00002153	x
SYKC_YEAST	non-	F21D5.7	WBGene00002238	x

SYLC_YEAST	essential	F55C5.8	WBGene00003073	x
SYMC_YEAST	essential	F38A1.8	WBGene00003415	x
SYNC_YEAST	non-	T16H12.4	WBGene00003815	x
SYPC_YEAST	essential	C09B8.7	WBGene00004190	
SYQ_YEAST	non-	C09G12.9	WBGene00001336	x
SYSC_YEAST	essential	C04F12.10	WBGene00005663	x
SYTC_YEAST	non-	R09E12.3	WBGene00006617	x
SYV_YEAST	essential	T12A2.2	WBGene00006936	x
SYWC_YEAST	non-	C26D10.2	WBGene00006945	x
SYWC_YEAST	essential	F47B10.1	WBGene00006945	
SYWM_YEAST	essential	F23F1.8	WBGene00006946	
SYYM_YEAST	non-	F14D12.5	WBGene00006968	x
T145_YEAST	essential	C08F8.2	WBGene00006382	x
T145_YEAST	non-	F28H1.3	WBGene00006382	x
T145_YEAST	essential	Y23H5A.7	WBGene00006382	x
T145_YEAST	non-	B0464.1	WBGene00006382	
T2D4_YEAST	essential	F10C2.6	WBGene00006386	x
T2D5_YEAST	non-	T07A9.2	WBGene00006387	
T2EA_YEAST	essential	T08B2.9	WBGene00013998	x
T2FA_YEAST	non-	F22B5.9	WBGene00015296	
T2FB_YEAST	essential	T11G6.1	WBGene00012694	
TAD2_YEAST	non-	R11A8.6	WBGene00010436	
TBG_YEAST	essential	C25A1.7	WBGene00006540	x
TBP_YEAST	non-	T02G5.9	WBGene00006542	x
TBP7_YEAST	essential	R74.1	WBGene00008682	
TCPA_YEAST	non-	F58B3.5	WBGene00000377	x
TCPB_YEAST	essential	F22D6.3	WBGene00011889	x
TCPD_YEAST	essential	T27F6.5	WBGene00000379	x
TCPE_YEAST	essential	Y41E3.4	WBGene00000380	x
TCPG_YEAST	non-	C47E12.1	WBGene00018782	x
TCPH_YEAST	essential	C47D12.6	WBGene00020391	x
TCPQ_YEAST	essential	Y87G2A.1	WBGene00021934	x
TCPQ_YEAST	essential	Y80D3A.a	WBGene00021934	x
TCPZ_YEAST	non-	Y80D3A.b	WBGene00000381	x
TCTP_YEAST	essential	C34E10.4	WBGene00009122	x
TEL1_YEAST	non-	K08F11.4	WBGene00000227	
TF3B_YEAST	essential	W04A8.7	WBGene00000271	x
TFC5_YEAST	essential	Y71A12B.a	WBGene00015091	x
TFS2_YEAST	essential	Y71A12B.b	WBGene00012000	
TLG2_YEAST	non-	Y71A12B.c	WBGene00022534	
TOP1_YEAST	essential	F30F8.8	WBGene00006595	
TPIS_YEAST	non-	W09B6.2	WBGene00006601	
TR20_YEAST	essential	ZK550.4	WBGene00021046	
TRM8_YEAST	non-	C01F1.1	WBGene00012205	
TRMU_YEAST	essential	Y39B6A.f	WBGene00007114	
TWF1_YEAST	non-	JC8.4	WBGene00018187	
TXTP_YEAST	essential	F58A4.8	WBGene00010780	
TYDP_YEAST	non-	T20B12.2	WBGene00018678	
TYSY_YEAST	essential	F11A10.1	WBGene00022455	
UBA1_YEAST	essential	T05C12.7	WBGene00006699	
UBA2_YEAST	non-	T21B10.7	WBGene00006700	
UBC2_YEAST	essential	K01C8.10	WBGene00006701	
UBC3_YEAST	essential	C07G2.3	WBGene00006702	
UBC9_YEAST	non-	F54A3_31.e	WBGene00006706	
UBPE_YEAST	essential	T10B5.5	WBGene00020839	
UBR1_YEAST	essential	Y55F3A_750.c	WBGene00016326	
UCR7_YEAST	essential	Y55F3A_750.d	WBGene00020181	
UDPG_YEAST	essential	F01F1.8	WBGene00010665	x
UFD1_YEAST	essential	F25H2.11	WBGene00006733	x
UFD2_YEAST	essential	Y48G1C_55.a	WBGene00006734	
UGA2_YEAST	non-	F45E12.2	WBGene00000113	
ULP1_YEAST	essential	B0261.1	WBGene00006736	
UME3_YEAST	non-	T24H10.1	WBGene00000506	
UME5_YEAST	essential	ZC155.7	WBGene00000409	
UNG_YEAST	essential	M01E5.5	WBGene00013241	
UT11_YEAST	essential	Y17G7B.7	WBGene00007623	x
UTR4_YEAST	non-	W05H7.3	WBGene00010286	
VATC_YEAST	essential	W02B12.10	WBGene00006920	
VATD_YEAST	essential	B0035.16	WBGene00010130	

VATE_YEAST	non-	F38E9.5	WBGene00006917	x
VATF_YEAST	essential	K11H3.3	WBGene00006918	x
VATG_YEAST	essential	F52C12.1	WBGene00006919	x
VATO_YEAST	essential	Y110A7A.q	WBGene00011347	x
VP13_YEAST	non-	C47E12.5	WBGene00011629	
VP15_YEAST	essential	W02A11.4	WBGene00014151	
VP15_YEAST	non-	C35B1.1	WBGene00014151	
VP16_YEAST	essential	Y71G12A_187.	WBGene00006516	
VP26_YEAST	non-	a	WBGene00006931	
VP27_YEAST	essential	F29B9.6	WBGene00004101	x
VP28_YEAST	essential	T27A3.2	WBGene00013598	x
VP34_YEAST	non-	C32E8.11	WBGene00006932	
VP35_YEAST	essential	T02H6.11	WBGene00006933	
VP45_YEAST	non-	K08E3.5	WBGene00016643	
VP45_YEAST	essential	F19B6.2	WBGene00016643	
VPS4_YEAST	essential	T05H10.5	WBGene00021334	x
VPS5_YEAST	essential	F45H10.1	WBGene00004927	
VPS9_YEAST	essential	T10F2.3	WBGene00012644	
WEB1_YEAST	non-	H14E04.5	WBGene00011338	
XPO1_YEAST	essential	F39H11.3	WBGene00002078	x
Y08L_YEAST	non-	Y56A3A.29	WBGene00011303	
YAB9_YEAST	essential	C16C10.2	WBGene00010845	
YAD2_YEAST	essential	F58H1.3	WBGene00004806	x
YAD6_YEAST	essential	Y38F2A_5743.	WBGene00012126	
YAD6_YEAST	essential	f	WBGene00012126	
YAE2_YEAST	essential	F55H2.2	WBGene00010725	
YAE6_YEAST	essential	C17H12.14	WBGene00013671	
YAH3_YEAST	non-	ZK970.4	WBGene00017683	
YAK1_YEAST	essential	F46F11.5	WBGene00003149	
YB78_YEAST	non-	T01H3.1	WBGene00018909	
YB85_YEAST	essential	T08G11.1	WBGene00020207	
YBA4_YEAST	non-	ZK930.1	WBGene00017558	
YBD6_YEAST	essential	ZK930.7	WBGene00017286	
YBF5_YEAST	non-	C05D11.2	WBGene00000795	
YBF7_YEAST	essential	T20D3.7	WBGene00016062	
YBN5_YEAST	non-	C07G1.5	WBGene00012344	
YBS0_YEAST	essential	Y87G2A.s	WBGene00019725	
YBV8_YEAST	non-	B0025.1	WBGene00004110	
YBY3_YEAST	essential	F59G1.3	WBGene00016408	
YCE5_YEAST	essential	C44C1.1	WBGene00019209	
YCF9_YEAST	non-	C44C1.4	WBGene00015461	x
YCT4_YEAST	essential	Y34D9A_152.a	WBGene00019806	
YCT7_YEAST	non-	C05D9.1	WBGene00016166	
YCU1_YEAST	essential	Y39A1A.5	WBGene00009376	
YCU9_YEAST	essential	T01G1.3	WBGene00013122	
YCW2_YEAST	non-	ZK742.1	WBGene00021074	x
YD13_YEAST	essential	R166.3	WBGene00011275	x
YD23_YEAST	non-	M03C11.8	WBGene00014017	
YD61_YEAST	essential	T27F2.1	WBGene00020296	
YD66_YEAST	non-	Y47D3A.gg	WBGene00016400	
YD83_YEAST	essential	T28D6.6	WBGene00015482	
YDAK_YEAST	non-	K09E9.2	WBGene00017301	
YDB6_YEAST	essential	Y105E8C.j	WBGene00008458	
YEC0_YEAST	essential	F21H12.1	WBGene00007143	
YEJ4_YEAST	non-	T04C10.1	WBGene00016353	
YEJ6_YEAST	essential	F56A3.2	WBGene00003821	x
YEM6_YEAST	non-	T04B8.5	WBGene00012097	
YEM6_YEAST	essential	F18C5.3	WBGene00012097	
YEO1_YEAST	essential	F09E5.8	WBGene00020821	
YEQ8_YEAST	non-	CD4.2	WBGene00020088	
YER2_YEAST	essential	C24G6.8	WBGene00009211	x
YET7_YEAST	non-	W08E3.3	WBGene00003803	x
YEV6_YEAST	essential	M02B7.4	WBGene00012351	
YEX0_YEAST	non-	C37A2.2	WBGene00009172	
YEY6_YEAST	essential	C34E10.5	WBGene00007787	
YEZ3_YEAST	essential	H17B01.4	WBGene00017724	
YFD0_YEAST	non-	C05C8.2	WBGene00011767	
YFH5_YEAST	essential	R01B10.4	WBGene00017280	x
YFH6_YEAST	non-	C27F2.4	WBGene00019673	

YFI8_YEAST	essential	F34D10.6	WBGene00010418	
YG12_YEAST	essential	Y52B11A.2	WBGene00013676	x
YG1D_YEAST	non-	W07E6.2	WBGene00021757	
YG1D_YEAST	essential	R53.6	WBGene00021757	
YG1W_YEAST	non-	ZK632.10	WBGene00022126	
YG1W_YEAST	essential	T07A9.8	WBGene00022126	
YG22_YEAST	non-	C34D4.4	WBGene00008480	
YG25_YEAST	essential	C05D11.3	WBGene00019770	
YG2M_YEAST	non-	F09F7.4	WBGene00017534	
YG2M_YEAST	essential	E02H1.6	WBGene00017534	
YG2O_YEAST	non-	B0334.3	WBGene00016588	
YG3J_YEAST	essential	C33F10.3	WBGene00017989	x
YG3Y_YEAST	non-	K01C8.9	WBGene00015346	x
YG4W_YEAST	essential	Y76A2A.1	WBGene00004015	
YG58_YEAST	non-	T27E9.7	WBGene00012676	x
YG5F_YEAST	essential	T26A5.5	WBGene00007622	
YG5O_YEAST	essential	R119.2	WBGene00013191	
YG5O_YEAST	non-	F28D1.1	WBGene00013191	
YG5U_YEAST	essential	F10G8.3	WBGene00002957	x
YG5Y_YEAST	essential	W09C5.1	WBGene00004788	x
YGA4_YEAST	non-	F26F2.7	WBGene00021467	
YGB8_YEAST	essential	K08H10.8	WBGene00001033	
YGE7_YEAST	non-	F22F7.7	WBGene00011193	
YGG8_YEAST	essential	T14D7.1	WBGene00012361	
YGJ9_YEAST	non-	F09D1.1	WBGene00016907	x
YGL1_YEAST	essential	K12C11.1	WBGene00011538	x
YGO2_YEAST	non-	H27A22.1	WBGene00020868	x
YGR1_YEAST	essential	Y105E8C.d	WBGene00021294	
YGS4_YEAST	essential	Y50D7_165.b	WBGene00011142	x
YGW1_YEAST	essential	Y50D7_165.d	WBGene00017928	
YH04_YEAST	essential	Y71F9B_275.b	WBGene00008148	
YHA2_YEAST	essential	Y71F9B_297.d	WBGene00004109	
YHB3_YEAST	non-	E04D5.1	WBGene00009007	
YHG4_YEAST	essential	M04F3.4	WBGene00018474	
YHH1_YEAST	non-	F17A9.2	WBGene00005662	
YHI0_YEAST	essential	F17A9.3	WBGene00004189	x
YHNO_YEAST	non-	C42C1.10	WBGene00008263	
YHN6_YEAST	essential	F32E10.1	WBGene00012362	
YHP9_YEAST	non-	C02F5.2	WBGene00007028	x
YHR1_YEAST	essential	T24H7.1	WBGene00018357	
YHW8_YEAST	non-	Y39B6B.a	WBGene00010805	
YHY6_YEAST	essential	C16C10.1	WBGene00007510	
YHY8_YEAST	non-	Y54E2A.6	WBGene00008918	
YIE2_YEAST	essential	Y54E2A.7	WBGene00022719	
YIE4_YEAST	non-	F33A8.1	WBGene00000565	
YIG4_YEAST	essential	C54H2.5	WBGene00017919	
YII3_YEAST	non-	Y39G10A_246.	WBGene00022171	
YIJ1_YEAST	essential	b	WBGene00012756	
YIJ7_YEAST	non-	K08D10.2	WBGene00012366	
YIK3_YEAST	essential	R10D12.12	WBGene00007576	
YIK4_YEAST	non-	W09D10.3	WBGene00021655	
YIL0_YEAST	essential	C53H9.2	WBGene00010450	
YIL3_YEAST	non-	T06E6.1	WBGene00006923	x
YIS5_YEAST	essential	T27F7.3	WBGene00016245	
YJ14_YEAST	non-	Y25C1A.7a	WBGene00016244	
YJ40_YEAST	essential	R08D7.1	WBGene00007555	
YJ42_YEAST	non-	F29C4.6	WBGene00001661	x
YJ54_YEAST	essential	C47E12.3	WBGene00016171	
YJ72_YEAST	non-	C34G6.7	WBGene00012193	
YJ76_YEAST	essential	F21D5.2	WBGene00003571	
YJ80_YEAST	non-	F45E12.1	WBGene00003478	
YJ89_YEAST	essential	W03B1.4	WBGene00004319	
YJ95_YEAST	non-	T20H4.3	WBGene00004682	
YJ99_YEAST	essential	C53A5.2	WBGene00011148	
YJE6_YEAST	non-	W09D10.4	WBGene00001590	
YJG2_YEAST	essential	C47D12.1	WBGene00009204	
YJG8_YEAST	non-	F42G8.6	WBGene00013018	
YJJ1_YEAST	essential	M01E5.2	WBGene00022447	
YJJ1_YEAST	essential	C10C5.6	WBGene00022447	

YJJ1_YEAST	non-	F17C11.7	WBGene00022447	
YJJ7_YEAST	essential	ZK370.5	WBGene00020517	
YJK0_YEAST	essential	Y17G7B.15	WBGene00008346	
YJK9_YEAST	essential	F29B9.1	WBGene00022739	x
YJK9_YEAST	essential	Y71H2_388.b	WBGene00022739	x
YJU1_YEAST	non-	Y41C4A.9	WBGene00012203	
YJX8_YEAST	essential	W09G3.2	WBGene00016500	
YJY3_YEAST	non-	C14B1.5	WBGene00007189	
YJZ4_YEAST	essential	Y48A5A.1	WBGene00013870	
YK10_YEAST	non-	K01A11.2	WBGene00011555	
YK18_YEAST	essential	F08B1.1	WBGene00022166	
YK31_YEAST	essential	C30B5.4	WBGene00009574	
YK50_YEAST	essential	C30B5.2	WBGene00019255	
YK59_YEAST	essential	C14A4.1	WBGene00001983	
YKA2_YEAST	essential	C34E10.2	WBGene00012903	
YKA9_YEAST	essential	C27F2.7	WBGene00017347	
YKE1_YEAST	non-	W02A11.2	WBGene00020866	
YKE1_YEAST	essential	C07A9.4	WBGene00020866	
YKF4_YEAST	non-	F53A2.8	WBGene00001081	
YKF9_YEAST	essential	ZK593.4	WBGene00009477	x
YKI2_YEAST	non-	C34E11.1	WBGene00022765	x
YKJ5_YEAST	essential	R08D7.4	WBGene00018149	
YKL7_YEAST	essential	C45G3.3	WBGene00022599	
YKP1_YEAST	essential	F28C6.4	WBGene00011298	
YKQ0_YEAST	essential	Y48G10B.b	WBGene00013219	
YKQ5_YEAST	non-	Y110A2A_54.a	WBGene00021840	
YKQ5_YEAST	essential	Y110A2A_1898	WBGene00021840	
YKT6_YEAST	non-	.d	WBGene00015164	
YKV5_YEAST	essential	Y110A2A_1898	WBGene00021429	
YL01_YEAST	non-	.e	WBGene00021377	
YL05_YEAST	essential	T15B7.2	WBGene00016674	
YL09_YEAST	non-	C56A3.8	WBGene00012887	x
YL16_YEAST	essential	ZK430.1	WBGene00016323	x
YL22_YEAST	non-	T12C9.2	WBGene00021063	
YL27_YEAST	essential	W02B12.8	WBGene00012666	x
YL34_YEAST	non-	C37C3.8	WBGene00003119	
YL51_YEAST	essential	B0491.1	WBGene00003585	
YL53_YEAST	non-	ZC373.5	WBGene00008410	
YL86_YEAST	essential	T07A5.2	WBGene00010565	
YM62_YEAST	essential	Y71H2_385.b	WBGene00016311	
YM8L_YEAST	essential	F40E10.6	WBGene00012803	
YM8T_YEAST	non-	K02B2.2	WBGene00018270	x
YMB4_YEAST	essential	E04A4.4	WBGene00016448	
YMD6_YEAST	non-	Y46G5.m	WBGene00020994	
YME1_YEAST	essential	F10E7.5	WBGene00010842	
YME9_YEAST	non-	T27F7.1	WBGene00019323	x
YMI0_YEAST	essential	F59A6.7	WBGene00009452	
YMJ3_YEAST	non-	F47A4.2	WBGene00017855	
YMJ3_YEAST	essential	F36F2.3	WBGene00017855	x
YMJ6_YEAST	essential	ZK546.14	WBGene00010889	
YMN1_YEAST	essential	F37C12.14	WBGene00010911	
YMO2_YEAST	non-	ZC395.10	WBGene00007630	
YMO9_YEAST	essential	R107.2	WBGene00009636	
YMT1_YEAST	non-	Y54G11A.11	WBGene00003176	
YMT8_YEAST	essential	M01B12.2	WBGene00017738	
YMT9_YEAST	non-	Y54E10B_159.	WBGene00012978	x
YMW7_YEAST	essential	a	WBGene00022027	
YMW7_YEAST	essential	B0361.10	WBGene00022027	x
YN03_YEAST	non-	Y38F2A_6126.	WBGene00010178	
YN15_YEAST	essential	b	WBGene00009920	
YN26_YEAST	essential	Y37E11B.5	WBGene00022025	
YN26_YEAST	non-	C45G9.2	WBGene00022025	
YN26_YEAST	essential	Y45F10D.8	WBGene00022025	
YN28_YEAST	non-	C32E8.5	WBGene00016139	
YN48_YEAST	essential	W06E11.4	WBGene00010044	x
YN53_YEAST	essential	Y39B6B.ee	WBGene00020600	x
YN65_YEAST	non-	Y48C3A.i	WBGene00007912	
YN8K_YEAST	essential	Y87G2A.b	WBGene00011391	
YN8Q_YEAST	essential	D2023.6	WBGene00007312	

YN8U_YEAST	essential	K04G2.6	WBGene00003596	x
YN8V_YEAST	essential	C32D5.3	WBGene00019005	
YNA6_YEAST	essential	Y43F4B.5	WBGene00015697	
YNC2_YEAST	essential	F41C3.4	WBGene00013151	
YNC2_YEAST	essential	C35D10.12	WBGene00013151	
YNC3_YEAST	essential	W03F8.4	WBGene00015812	
YNC6_YEAST	essential	M03C11.5	WBGene00001662	
YNC7_YEAST	essential	K02F2.3	WBGene00007772	
YNK7_YEAST	essential	F36A2.2	WBGene00001585	
YNL0_YEAST	essential	C24A11.9	WBGene00011408	x
YNM9_YEAST	essential	F27C1.6	WBGene00020842	
YNN2_YEAST	essential	M18.3	WBGene00018866	x
YNQ8_YEAST	essential	M106.3	WBGene00022798	
YNR5_YEAST	essential	C16C10.11	WBGene00007111	x
YNU1_YEAST	non-	F42F12.4	WBGene00018285	x
YNU1_YEAST	essential	F37C12.12	WBGene00018285	
YNU1_YEAST	essential	F23C8.9	WBGene00018285	
YNW7_YEAST	essential	Y48B6A.1	WBGene00001035	
YNZ3_YEAST	essential	Y65B4A_182.b	WBGene00009341	
YNZ5_YEAST	essential	Y65B4A_182.c	WBGene00019537	
YNZ5_YEAST	essential	F57A8.2	WBGene00019537	
YO06_YEAST	non-	F52B5.1	WBGene00018679	
YO26_YEAST	essential	Y65B4A_174.a	WBGene00007413	x
YO7T_YEAST	non-	Y65B4A_174.b	WBGene00007101	
YOJ8_YEAST	essential	Y65B4A_179.b	WBGene00015481	
YOZ1_YEAST	essential	C26E6.3	WBGene00008316	
YP18_YEAST	essential	F54C9.9	WBGene00007236	
YP46_YEAST	essential	T20B12.1	WBGene00012692	x
YP59_YEAST	non-	C34B7.2	WBGene00013029	
YP67_YEAST	essential	T03D8.2	WBGene00013218	
YPT1_YEAST	essential	C04H5.1	WBGene00004266	x
YPT7_YEAST	essential	T19A6.2	WBGene00004271	x
YRB1_YEAST	essential	F57B10.8	WBGene00003795	x
YTM1_YEAST	essential	C10H11.8	WBGene00018893	x
ZPR1_YEAST	essential	Y53F4B.e	WBGene00020999	
ZUO1_YEAST	non-	Y53F4B.f	WBGene00001029	
	essential	C16A3.7		
	essential	C34E10.1		
	non-	C27C12.2		
	essential	M04B2.3		
	essential	T04A8.6		
	essential	T27A3.6		
	non-	F55A12.8		
	essential	ZK688.3		
	non-	B0035.12		
	essential	F41E6.3		
	essential	F41E6.4		
	essential	F41E6.10		
	non-	T03F6.2		
	essential	F32H2.4		
	non-	K08D12.h		
	essential	K08D12.c		
	non-	F52C12.2		
	essential	C07E3.2		
	non-	B0024.11		
	essential	C05D11.1		
	non-	C54G4.6		
	essential	C01G10.9		
	non-	Y39B6B.o		
	essential	Y49E10.2		
	essential	Y54G11A.9		
	non-	C39F7.4		
	essential	W03C9.3		
	non-	F59A2.1		
	essential	F55F8.5		
	non-	W03F9.1		
	essential	F38A5.13		
	non-			
	essential			

	<p>non- essential essential non- essential non- essential non- essential non- essential essential essential essential non- essential non- essential essential essential essential essential essential essential essential essential essential essential non- essential essential essential non- essential non- essential non- essential essential essential essential essential non- essential non- essential non- essential non- essential non- essential non- essential non- essential non- essential essential essential non- essential essential non- essential essential non-</p>			
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Appendix Table 4.3. Features of *C. elegans* duplicate gene pairs

CE Name	CB Name	Prot_id	Lengt_h	Ka	Ks
WBGene00008354	WBGene00029517	69.86	148	0.233	13.691
WBGene00009918	WBGene00032946	69.86	146	3	9
WBGene00008956	WBGene00023610	32.2	302	0.233	13.691
WBGene00021461	WBGene00026730	32.2	998	3	9
WBGene00016195	WBGene00030711	68.08	213	0.760	3.4968
*	WBGene00036885	68.08	213	7	3.4968
WBGene00001331	WBGene00041735	41.69	461	0.760	14.567
*	WBGene00041735	41.69	464	7	1
WBGene00011089	WBGene00023673	50.93	655	0.259	14.567
WBGene00011088	WBGene00026207	50.93	650	2	1
WBGene00017012	WBGene00033086	54.44	118	0.259	7.3706
WBGene00009218	WBGene00035798	54.44	94	2	7.3706
WBGene00022162	WBGene00035798	69.7	517	0.560	18.767
WBGene00001051	WBGene00039574	69.7	505	1	4
WBGene00016849	WBGene00040435	40.51	318	0.560	18.767
WBGene00018269	WBGene00027856	40.51	324	1	4
WBGene00008275	WBGene00026512	54.79	417	0.440	18.928
WBGene00017480	WBGene00026513	54.79	412	3	2
WBGene00003036	WBGene00035179	45.45	552	0.440	18.928
*	WBGene00037242	45.45	485	3	2
WBGene00004312	WBGene00025293	66.3	646	0.443	2.8373
*	WBGene00029486	66.3	692	9	2.8373
WBGene00003254	WBGene00036366	31.66	592	0.443	5.0746
WBGene00016380	WBGene00037717	31.66	608	9	5.0746
WBGene00003902	WBGene00032079	52.23	408	0.189	20.823
*	WBGene00040600	52.23	423	6	9
WBGene00003903	WBGene00029678	n.d.	462	0.189	20.823
*	WBGene00023775	n.d.	393	6	9
WBGene00017298	WBGene00026926	50	152	0.629	16.399
WBGene00010663	WBGene00032071	50	146	1	3
WBGene00016728	WBGene00041223	29.71	138	0.629	16.399
WBGene00007254	WBGene00032315	29.71	143	1	3
WBGene00010398	WBGene00032933	46.35	722	0.367	11.586
WBGene00012129	WBGene00027197	46.35	673	2	3
WBGene00000205	WBGene00034641	52.45	217	0.367	11.586
WBGene00016729	WBGene00034640	52.45	206	2	3
WBGene00001425	WBGene00025033	34.72	1032	0.514	15.025
WBGene00001424	WBGene00025033	34.72	1275	6	6
WBGene00012031	WBGene00037234	37.96	326	0.514	15.025
WBGene00013049	WBGene00037235	37.96	248	6	6
WBGene00004386	WBGene00027801	81.15	191	0.268	18.806
WBGene00004385	WBGene00025918	81.15	191	1	7
WBGene00019435	WBGene00024343	71.01	338	0.268	18.806
WBGene00019146	WBGene00034868	71.01	634	1	7
WBGene00016374	WBGene00026186	43.53	326	0.888	n.d.
WBGene00016373	WBGene00033815	43.53	349	6	n.d.
WBGene00007812	WBGene00029321	52.51	448	0.888	2.7613
WBGene00009575	WBGene00024026	52.51	499	6	2.7613
WBGene00013140	WBGene00034303	46.25	367	0.368	10.565
*	WBGene00034302	46.25	376	3	4
WBGene00019827	WBGene00031144	51.88	165	0.368	10.565
*	WBGene00038538	51.88	347	3	4
WBGene00011637	WBGene00033040	65.5	211	n.d.	16.900
WBGene00015516	WBGene00033549	65.5	201	n.d.	5
WBGene00021787	WBGene00036571	30.82	652	0.384	16.900
WBGene00010456	WBGene00027003	30.82	645	5	5
WBGene00001253	WBGene00026215	30.54	708	0.384	17.638
*	WBGene00023788	30.54	481	5	9
WBGene00001186	WBGene00027436	32.82	282	0.869	17.638
*	WBGene00036088	32.82	262	3	9
WBGene00001646	WBGene00037818	50.21	780	0.869	9.1
WBGene00001647	WBGene00037818	50.21	729	3	9.1
WBGene00004272	WBGene00026485	19.18	444	0.457	18.25
*	WBGene00038506	19.18	497	4	18.25
WBGene00004273	WBGene00026268	24.89	1156	0.457	2.9571

*	WBGene00025942	24.89	2180	4	2.9571
WBGene00000591	WBGene00032812	34.16	323	0.364	16.810
WBGene00004737	WBGene00042593	34.16	332	0.364	3
WBGene00007729	WBGene00032511	48.05	558	1.158	16.810
WBGene00008203	WBGene00032560	48.05	512	6	3
WBGene00011543	WBGene00038350	67.19	459	1.158	13.150
WBGene00010339	WBGene00027221	67.19	442	6	3
WBGene00000836	WBGene00036613	38.66	591	0.633	13.150
WBGene00000841	WBGene00034298	38.66	562	4	3
WBGene00003825	WBGene00035871	53.27	199	0.633	11.256
WBGene00006499	WBGene00035728	53.27	260	4	2
WBGene00010558	WBGene00042950	70.11	383	0.113	11.256
WBGene00004215	WBGene00042950	70.11	359	2	2
WBGene00021260	WBGene00029945	64.02	191	0.113	6.895
WBGene00009262	WBGene00029932	64.02	199	2	6.8952
WBGene00018398	WBGene00025632	38.81	374	0.196	9.2763
WBGene00011932	WBGene00041901	38.81	338	1	9.2763
WBGene00021956	WBGene00041901	71.33	295	0.196	19.587
WBGene00011250	WBGene00035270	71.33	293	1	19.587
WBGene00006757	WBGene00023959	n.d.	227	0.625	8.633
WBGene00020298	WBGene00025286	n.d.	245	8	8.633
WBGene00006715	WBGene00036253	51.18	624	0.625	10.831
WBGene00006716	WBGene00029106	51.18	606	8	9
WBGene00013957	WBGene00024008	59.11	269	0.429	10.831
WBGene00009462	WBGene00024007	59.11	286	1	9
WBGene00003563	WBGene00029668	62.74	441	0.429	9.4114
WBGene00003565	WBGene00029668	62.74	437	1	9.4114
WBGene00017436	WBGene00032099	63.82	450	0.531	6.3726
WBGene00012834	WBGene00031037	63.82	457	9	6.3726
WBGene00017673	WBGene00031037	35.42	468	0.531	3.4483
WBGene00019710	WBGene00024344	35.42	677	9	3.4483
WBGene00020109	WBGene00032360	68.54	180	0.387	13.468
WBGene00009111	WBGene00032360	68.54	178	2	1
WBGene00020142	WBGene00030030	38.15	770	0.387	13.468
WBGene00019801	WBGene00036974	38.15	745	2	1
WBGene00009902	WBGene00040842	66.18	419	0.268	10.173
WBGene00009903	WBGene00027571	66.18	414	8	10.173
WBGene00010984	WBGene00029059	78.92	205	0.268	16.577
WBGene00009232	WBGene00036043	78.92	205	8	9
WBGene00022456	WBGene00041573	20.39	368	0.868	16.577
WBGene00019295	WBGene00031308	20.39	392	5	9
WBGene00006938	WBGene00029118	46.64	1342	0.868	11.296
WBGene00006940	WBGene00024017	46.64	880	5	5
WBGene00004930	WBGene00036484	43.72	242	1.036	11.296
WBGene00007036	WBGene00035233	43.72	254	6	5
WBGene00020082	WBGene00034778	69.12	611	1.036	14.588
WBGene00007954	WBGene00041133	69.12	600	6	8
WBGene00016652	WBGene00038231	76.73	493	0.747	14.588
WBGene00015778	WBGene00038231	76.73	437	2	8
WBGene00004269	WBGene00035774	43.75	254	0.747	14.889
WBGene00004270	WBGene00026403	43.75	236	2	3
WBGene00011404	WBGene00028571	48.76	609	0.408	14.889
WBGene00007925	WBGene00030119	48.76	625	2	3
WBGene00022718	WBGene00023609	67.74	531	0.408	2.9108
WBGene00010915	WBGene00041654	67.74	588	2	2.9108
WBGene00003845	WBGene00035644	59.56	927	1.247	7.1603
WBGene00003846	WBGene00035644	59.56	362	2	7.1603
WBGene00006810	WBGene00027230	60.35	461	1.247	5.8279
*	WBGene00038066	60.35	465	2	5.8279
WBGene00010685	WBGene00026823	70.55	146	0.981	1.2764
*	WBGene00034993	70.55	147	5	1.2764
WBGene00000110	WBGene00041499	54.84	557	0.981	n.d.
WBGene00000111	WBGene00041499	54.84	542	5	n.d.
WBGene00006388	WBGene00029579	76.18	322	0.771	10.044
WBGene00006389	WBGene00035499	76.18	321	8	6
WBGene00016589	WBGene00035192	42.74	480	0.771	10.044
WBGene00022610	WBGene00023764	42.74	540	8	6
WBGene00008924	WBGene00034955	30.9	1383	0.497	2.5368
WBGene00010077	WBGene00036534	30.9	1274	7	2.5368

WBGene00022717	WBGene00027753	47.31	444	0.497	16.716
WBGene00006484	WBGene00032145	47.31	398	7	8
WBGene00001834	WBGene00032590	49.08	478	0.23	16.716
WBGene00001836	WBGene00032589	49.08	388	0.23	8
WBGene00004439	WBGene00028243	64.08	309	0.581	16.227
*	WBGene00029624	64.08	300	7	4
WBGene00004438	WBGene00030797	66.01	153	0.581	16.227
*	WBGene00037681	66.01	168	7	4
WBGene00007554	WBGene00040807	42.77	306	0.378	15.751
*	WBGene00036716	42.77	166	2	7
WBGene00012348	WBGene00040965	72.58	62	0.378	15.751
*	WBGene00040965	72.58	87	2	7
WBGene00007350	WBGene00025898	45.16	1490	0.191	1.1986
*	WBGene00037226	45.16	1432	3	1.1986
WBGene00017759	WBGene00026061	54.89	400	0.191	19.587
*	WBGene00033328	54.89	372	3	3
WBGene00016934	WBGene00029242	50.2	492	0.249	19.587
WBGene00007446	WBGene00028696	50.2	516	8	3
WBGene00003561	WBGene00034255	87.54	351	0.249	16.249
WBGene00003562	WBGene00034255	87.54	289	8	9
WBGene00000217	WBGene00033020	51.95	933	0.709	16.249
WBGene00000216	WBGene00035294	51.95	900	2	9
WBGene00009976	WBGene00024751	52.88	997	0.709	16.486
WBGene00009977	WBGene00037136	52.88	1328	2	7
WBGene00018901	WBGene00037909	26.79	238	0.184	16.486
WBGene00008979	WBGene00037906	26.79	402	7	7
WBGene00020052	WBGene00032644	33.77	308	0.184	11.431
WBGene00012968	WBGene00041676	33.77	155	7	8
WBGene00009140	WBGene00042135	34.77	608	n.d.	11.431
WBGene00008693	WBGene00036912	34.77	557	n.d.	8
WBGene00004443	WBGene00036196	57.97	449	0.431	18.643
WBGene00012956	WBGene00031306	57.97	437	3	4
WBGene00011530	WBGene00038684	45.41	223	0.431	18.643
WBGene00016700	WBGene00036217	45.41	220	3	4
WBGene00012149	WBGene00034158	65.14	109	0.304	3.2719
WBGene00009453	WBGene00034158	65.14	132	9	3.2719
WBGene00019207	WBGene00026309	72.16	520	0.304	12.577
WBGene00019979	WBGene00040591	72.16	489	9	1
WBGene00003938	WBGene00040591	37.41	160	0.263	12.577
WBGene00001204	WBGene00025733	37.41	153	6	1
WBGene00004217	WBGene00039142	69.25	493	0.263	2.376
*	WBGene00025215	69.25	493	6	2.376
WBGene00004224	WBGene00033192	32.04	399	0.264	5.098
*	WBGene00038480	32.04	427	3	5.098
WBGene00004256	WBGene00040585	40.69	491	0.264	9.3943
WBGene00004257	WBGene00040585	40.69	544	3	9.3943
WBGene00004995	WBGene00025527	82.52	148	0.646	18.369
WBGene00004993	WBGene00025527	82.52	143	4	1
WBGene00000250	WBGene00033806	30.39	184	0.646	18.369
WBGene00000249	WBGene00033805	30.39	258	4	1
WBGene00011850	WBGene00035494	n.d.	214	0.208	1.1239
WBGene00009622	WBGene00035494	n.d.	183	7	1.1239
WBGene00001638	WBGene00025421	44.07	539	0.208	10.058
WBGene00001639	WBGene00025391	44.07	654	7	8
WBGene00009176	WBGene00030548	77.18	444	0.654	10.058
WBGene00012295	WBGene00030548	77.18	355	0.654	8
WBGene00014170	WBGene00025657	53.24	1009	0.238	11.509
WBGene00010763	WBGene00025657	53.24	709	3	1
WBGene00000964	WBGene00035361	43.06	474	0.238	11.509
WBGene00000963	WBGene00034909	43.06	429	3	1
WBGene00015406	WBGene00033234	40.08	507	0.134	18.331
WBGene00007419	WBGene00023546	40.08	565	0.134	18.331
WBGene00000002	WBGene00029229	85.21	610	1.078	10.737
WBGene00000004	WBGene00029229	85.21	142	2	8
WBGene00008885	WBGene00036378	54.04	485	1.078	10.737
WBGene00016044	WBGene00036378	54.04	781	2	8
WBGene00003041	WBGene00028556	56.45	539	0.465	9.4187
WBGene00021661	WBGene00033991	56.45	559	7	9.4187
WBGene00016112	WBGene00025675	44.03	464	0.465	10.314

WBGene00016123	WBGene00034951	44.03	578	7	8
WBGene00000516	WBGene00031372	35.24	441	0.587	10.314
WBGene00000517	WBGene00036415	35.24	566	2	8
WBGene00017757	WBGene00042202	52.01	733	0.587	1.9277
WBGene00010029	WBGene00023795	52.01	586	2	1.9277
WBGene00001101	WBGene00026107	34.83	393	0.218	19.193
*	WBGene00036051	34.83	362	1	8
WBGene00001102	WBGene00031496	83.85	195	0.218	19.193
*	WBGene00023941	83.85	161	1	8
WBGene00016507	WBGene00029720	75.26	287	0.149	12.798
WBGene00016506	WBGene00029720	75.26	287	3	12.798
WBGene00019608	WBGene00029166	34.86	319	0.149	11.463
WBGene00012835	WBGene00035475	34.86	302	3	5
WBGene00000509	WBGene00029977	34.39	297	0.601	11.463
WBGene00000510	WBGene00041856	34.39	299	9	5
WBGene00022801	WBGene00026875	41.05	1285	0.601	17.454
WBGene00003956	WBGene00036193	41.05	1203	9	3
WBGene00016074	WBGene00036248	69.93	594	0.470	17.454
WBGene00016072	WBGene00036248	69.93	556	8	3
WBGene00004052	WBGene00041442	82.16	510	0.470	0.6483
WBGene00004051	WBGene00041442	82.16	537	8	0.6483
WBGene00004025	WBGene00036973	49.54	255	0.221	6.59
WBGene00001077	WBGene00036973	49.54	216	9	6.59
WBGene00019427	WBGene00033562	68.26	427	0.221	14.074
WBGene00017178	WBGene00033551	68.26	419	9	5
WBGene00004183	WBGene00029035	47.88	1429	0.278	14.074
WBGene00004182	WBGene00029022	47.88	1295	6	5
WBGene00001813	WBGene00025031	69.21	920	0.278	9.7792
WBGene00001811	WBGene00025031	69.21	440	6	9.7792
WBGene00011578	WBGene00039831	55.04	313	0.311	0.3888
WBGene00020727	WBGene00039835	55.04	258	8	0.3888
WBGene00002064	WBGene00033834	53.23	719	0.311	14.752
WBGene00002065	WBGene00033834	53.23	763	8	8
WBGene00004801	WBGene00033041	78.82	170	0.243	14.752
WBGene00004802	WBGene00024156	78.82	170	5	8
WBGene00016811	WBGene00024970	65.09	110	0.243	8.1971
WBGene00022489	WBGene00033667	65.09	107	5	8.1971
WBGene00020215	WBGene00033667	36.42	480	0.372	2.3893
WBGene00012142	WBGene00030028	36.42	316	5	2.3893
WBGene00020490	WBGene00026765	47.74	245	0.372	5.6259
WBGene00015177	WBGene00025735	47.74	374	5	5.6259
WBGene00015676	WBGene00023576	65.27	169	0.181	12.892
WBGene00020168	WBGene00031423	65.27	201	6	8
WBGene00000107	WBGene00040884	64.01	1219	0.181	12.892
WBGene00000108	WBGene00034297	64.01	1219	6	8
WBGene00007955	WBGene00040564	43.4	373	0.569	10.778
WBGene00009238	WBGene00037222	43.4	341	9	4
WBGene00016943	WBGene00027270	59.45	465	0.569	10.778
WBGene00019433	WBGene00023571	59.45	406	9	4
WBGene00003001	WBGene00030001	73.85	1528	0.773	4.2335
*	WBGene00030002	73.85	1525	0.773	4.2335
WBGene00001609	WBGene00025199	33.23	679	0.517	5.8458
*	WBGene00042487	33.23	654	8	5.8458
WBGene00007258	WBGene00030975	28.87	527	0.517	12.699
WBGene00021214	WBGene00027980	28.87	483	8	9
WBGene00013268	WBGene00029442	58.36	269	0.457	12.699
WBGene00013255	WBGene00034008	58.36	274	2	9
WBGene00015203	WBGene00033580	41.18	289	0.457	10.454
*	WBGene00026690	41.18	325	2	3
WBGene00013917	WBGene00032209	53.07	491	0.262	10.454
*	WBGene00026912	53.07	494	4	3
WBGene00001501	WBGene00026406	39.68	518	0.262	11.391
WBGene00001500	WBGene00041750	39.68	531	4	8
WBGene00004410	WBGene00041068	15.08	881	0.277	11.391
*	WBGene00037195	15.08	525	9	8
WBGene00016493	WBGene00029946	33.06	371	0.277	13.631
*	WBGene00028823	33.06	388	9	4
WBGene00000387	WBGene00030164	52.59	731	0.537	13.631
WBGene00000388	WBGene00035178	52.59	718	2	4

WBGene00018008	WBGene00034705	9.39	421	0.537	8.9133
WBGene00018354	WBGene00035101	9.39	362	2	8.9133
WBGene00004345	WBGene00031541	33.68	784	0.253	1.0433
WBGene00004344	WBGene00031539	33.68	910	7	1.0433
WBGene00004969	WBGene00037863	71.46	530	0.253	9.4085
WBGene00002041	WBGene00037848	71.46	529	7	9.4085
WBGene00008767	WBGene00025907	32.13	277	0.482	n.d.
WBGene00012786	WBGene00042179	32.13	319	3	n.d.
WBGene00013024	WBGene00038818	45.49	297	0.482	11.261
WBGene00009057	WBGene00025405	45.49	278	3	3
WBGene00003407	WBGene00025104	63.51	363	0.413	11.261
WBGene00003408	WBGene00025104	63.51	359	2	3
WBGene00020511	WBGene00033942	41.28	535	0.413	1.4609
WBGene00012315	WBGene00035164	41.28	703	2	1.4609
WBGene00016061				0.438	6.7028
WBGene00000139				1	6.7028
WBGene00010115				0.438	9.8317
WBGene00012928				1	9.8317
WBGene00015623				0.075	4.2682
WBGene00020402				7	4.2682
WBGene00001025				0.075	0.1931
WBGene00001046				7	0.1931
WBGene00013739				0.402	2.9597
WBGene00007549				9	2.9597
WBGene00020649				0.402	19.841
WBGene00011258				9	5
WBGene00016642				0.390	19.841
WBGene00019980				2	5
WBGene00018152				0.390	9.8457
*				2	9.8457
WBGene00016716				0.905	12.016
*				1	1
WBGene00018738				0.905	12.016
WBGene00015388				1	1
WBGene00014220				0.769	8.8637
WBGene00003504				4	8.8637
WBGene00018755				0.769	9.7753
WBGene00012914				4	9.7753
WBGene00009514				0.734	8.6519
WBGene00004135				7	8.6519
WBGene00021296				0.734	0.9746
WBGene00019022				7	0.9746
WBGene00003368				0.312	4.577
WBGene00012162				2	4.577
WBGene00004244				0.312	15.803
WBGene00004245				2	8
				0.477	15.803
				7	8
				0.477	8.9123
				7	8.9123
				0.311	1.4083
				4	1.4083
				0.311	3.7686
				4	3.7686
				0.181	4.1253
				1	4.1253
				0.181	13.371
				1	9
				0.688	13.371
				9	9
				0.688	17.120
				9	8
				0.232	17.120
				0.232	8
				0.789	0.831
				9	0.831
				0.789	1.6525
				9	1.6525
				0.591	10.796

Appendix Table 5.1. *S. cerevisiae* synthetic lethal interactions and their pairwise *C. elegans* orthologues

Gene 1			Gene 2			Refs
SC Name	CE Name	CE RNAi clone	SC Name	CE Name	CE RNAi clone	
ALG6	WBGene00007435	C08B11.8	OST3	WBGene00022793	ZK686.3	Tong
ALG8	WBGene00007464	C08H9.3	OST3	WBGene00022793	ZK686.3	Tong
ALG8	WBGene00007464	C08H9.3	PER1	WBGene00019806	R01B10.4	Tong
ARC40	WBGene00000201	Y79H2A.6	ARC18	WBGene00000203	Y37D8A.1	Tong
ARC40	WBGene00000201	Y79H2A.6	CHS5	WBGene00022615	ZC449.5	Tong
ARC40	WBGene00000201	Y79H2A.6	GIM3	WBGene00007107	B0035.4	Tong
ARC40	WBGene00000201	Y79H2A.6	GIM4	WBGene00019220	H20J04.d	Tong
ARC40	WBGene00000201	Y79H2A.6	GLO3	WBGene00017217	F07F6.4	Tong
ARC40	WBGene00000201	Y79H2A.6	SEC22	WBGene00018853	F55A4.1	Tong
ARC40	WBGene00000201	Y79H2A.6	SPF1	WBGene00007514	C10C6.6	Tong
ARC40	WBGene00000201	Y79H2A.6	STE24	WBGene00001405	C04F12.10	Tong
ARC40	WBGene00000201	Y79H2A.6	VRP1	WBGene00020094	R144.4 & R144.8	Tong
ARC40	WBGene00000201	Y79H2A.6	YKE2	WBGene00009004	F21C3.5	Tong
ARL1	WBGene00000187	F54C9.10	COG6	WBGene00019481	K07C11.9	Tong
ARL1	WBGene00000187	F54C9.10	COG8	WBGene00011736	T12D8.9	Tong
ARL1	WBGene00000187	F54C9.10	GLO3	WBGene00017217	F07F6.4	Tong
ARL1	WBGene00000187	F54C9.10	PER1	WBGene00019806	R01B10.4	Tong
ARL1	WBGene00000187	F54C9.10	TLG2	WBGene00022534	ZC155.7	Tong
ARL1	WBGene00000187	F54C9.10	VPS29	WBGene00014234	ZK1128.8	Tong
ARL1	WBGene00000187	F54C9.10	VPS35	WBGene00006933	F59G1.3	Tong
ARL1	WBGene00000187	F54C9.10	VPS5	WBGene00004927	C05D9.1	Tong
ARL1	WBGene00000187	F54C9.10	YPT6	WBGene00009880	F49C12.11	Tong
ARL3	WBGene00021841	Y54E10B_159.i	COG6	WBGene00019481	K07C11.9	Tong
ARL3	WBGene00021841	Y54E10B_159.i	COG8	WBGene00011736	T12D8.9	Tong
ARL3	WBGene00021841	Y54E10B_159.i	GDA1	WBGene00010697	K08H10.4	Tong
ARL3	WBGene00021841	Y54E10B_159.i	GLO3	WBGene00017217	F07F6.4	Tong
ARL3	WBGene00021841	Y54E10B_159.i	GYP1	WBGene00009322	F32B6.8	Tong
ARL3	WBGene00021841	Y54E10B_159.i	OST2	WBGene00000896	F57B10.10	Davierwala
ARL3	WBGene00021841	Y54E10B_159.i	TLG2	WBGene00022534	ZC155.7	Tong
ARL3	WBGene00021841	Y54E10B_159.i	TRS20	WBGene00021046	W05H7.3	Davierwala
ARL3	WBGene00021841	Y54E10B_159.i	VPS5	WBGene00004927	C05D9.1	Tong
ARL3	WBGene00021841	Y54E10B_159.i	YPT6	WBGene00009880	F49C12.11	Tong
ARP2	WBGene00000200	K07C5.1	ABD1	WBGene00006447	C25A1.3	Davierwala
ARP2	WBGene00000200	K07C5.1	CHS5	WBGene00022615	ZC449.5	Tong
ARP2	WBGene00000200	K07C5.1	CWC22	WBGene00002957	F33A8.1	Davierwala
ARP2	WBGene00000200	K07C5.1	GIM3	WBGene00007107	B0035.4	Tong
ARP2	WBGene00000200	K07C5.1	GIM4	WBGene00019220	H20J04.d	Tong
ARP2	WBGene00000200	K07C5.1	HRT1	WBGene00004320	ZK287.5	Davierwala
ARP2	WBGene00000200	K07C5.1	LAS17	WBGene00006565	Y63D3A.5	Davierwala
ARP2	WBGene00000200	K07C5.1	MAK5	WBGene00018890	F55F8.2	Davierwala
ARP2	WBGene00000200	K07C5.1	NOP14	WBGene00021660	Y48G1A_54.d	Davierwala
ARP2	WBGene00000200	K07C5.1	PAC10	WBGene00006889	T06G6.9	Tong
ARP2	WBGene00000200	K07C5.1	PFY1	WBGene00003991	K03E6.6	Davierwala

ARP2	WBGene00000200	K07C5.1	PRP9	WBGene00011758	T13H5.4	Davierwala
ARP2	WBGene00000200	K07C5.1	RGD1	WBGene00001559	F45H7.2 & F45H7.3	Tong
ARP2	WBGene00000200	K07C5.1	RVS161	WBGene00010272	F58G6.1	Tong
ARP2	WBGene00000200	K07C5.1	RVS167	WBGene00020209	T04C9.1 & ZK328.3	Tong
ARP2	WBGene00000200	K07C5.1	SPF1	WBGene00007514	C10C6.6	Tong
ARP2	WBGene00000200	K07C5.1	STE24	WBGene00001405	C04F12.10	Tong
ARP2	WBGene00000200	K07C5.1	VRP1	WBGene00020094	R144.4 & R144.8	Tong
ARP2	WBGene00000200	K07C5.1	YKE2	WBGene00009004	F21C3.5	Tong
ARP6	WBGene00007434	C08B11.6	BRE1	WBGene00007008	R05D3.4	Tong, Pan
ARP6	WBGene00007434	C08B11.6	BUD13	WBGene00011142	R08D7.1	Tong
ARP6	WBGene00007434	C08B11.6	COG6	WBGene00019481	K07C11.9	Tong
ARP6	WBGene00007434	C08B11.6	DEG1	WBGene00006473	E02H1.3	Tong
ARP6	WBGene00007434	C08B11.6	GIM3	WBGene00007107	B0035.4	Tong
ARP6	WBGene00007434	C08B11.6	GIM4	WBGene00019220	H20J04.d	Tong
ARP6	WBGene00007434	C08B11.6	GIM5	WBGene00020112	R151.9	Tong
ARP6	WBGene00007434	C08B11.6	GLO3	WBGene00017217	F07F6.4	Tong
ARP6	WBGene00007434	C08B11.6	HCM1	WBGene00001442	C25A1.2	Tong
ARP6	WBGene00007434	C08B11.6	LEO1	WBGene00007110	B0035.11	Tong
ARP6	WBGene00007434	C08B11.6	PAC10	WBGene00006889	T06G6.9	Tong
ARP6	WBGene00007434	C08B11.6	PAC2	WBGene00019503	K07H8.1	Tong
ARP6	WBGene00007434	C08B11.6	RTF1	WBGene00009103	F25B3.6	Tong
ARP6	WBGene00007434	C08B11.6	SEC22	WBGene00018853	F55A4.1	Tong
ARP6	WBGene00007434	C08B11.6	YDL033C	WBGene00007114	B0035.16	Tong
ARP6	WBGene00007434	C08B11.6	YPT6	WBGene00009880	F49C12.11	Tong
BRE1	WBGene00007008	R05D3.4	ARC18	WBGene00000203	Y37D8A.1	Pan
BRE1	WBGene00007008	R05D3.4	ASC1	WBGene00010556	K04D7.1	Pan
BRE1	WBGene00007008	R05D3.4	CCR4	WBGene00000376	ZC518.3	Pan
BRE1	WBGene00007008	R05D3.4	COG6	WBGene00019481	K07C11.9	Pan
BRE1	WBGene00007008	R05D3.4	COG8	WBGene00011736	T12D8.9	Pan
BRE1	WBGene00007008	R05D3.4	CTK1	WBGene00007135	B0285.1 & B0285.2	Pan
BRE1	WBGene00007008	R05D3.4	HTZ1	WBGene00019947	R08C7.3	Pan
BRE1	WBGene00007008	R05D3.4	LEA1	WBGene00019223	H20J04.c	Pan
BRE1	WBGene00007008	R05D3.4	LSM1	WBGene00003076	F40F8.9	Pan
BRE1	WBGene00007008	R05D3.4	MRE11	WBGene00003405	ZC302.1	Pan
BRE1	WBGene00007008	R05D3.4	NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	Pan
BRE1	WBGene00007008	R05D3.4	PEP3	WBGene00021058	W06B4.3	Pan
BRE1	WBGene00007008	R05D3.4	PEP5	WBGene00011067	R06F6.2	Pan
BRE1	WBGene00007008	R05D3.4	POL32	WBGene00011016	R04F11.3	Pan
BRE1	WBGene00007008	R05D3.4	POP2	WBGene00000369	Y56A3A.20	Pan
BRE1	WBGene00007008	R05D3.4	RAD27	WBGene00000794	Y47G6A_247.i	Pan
BRE1	WBGene00007008	R05D3.4	RAD51	WBGene00004297	Y43C5A.6	Pan
BRE1	WBGene00007008	R05D3.4	RAD54	WBGene00004298	W06D4.6	Pan
BRE1	WBGene00007008	R05D3.4	RPN10	WBGene00004466	B0205.3	Pan
BRE1	WBGene00007008	R05D3.4	SAC1	WBGene00009264	F30A10.6	Pan
BRE1	WBGene00007008	R05D3.4	SCS7	WBGene00007707	C25A1.5	Pan
BRE1	WBGene00007008	R05D3.4	SIN3	WBGene00004117	F02E9.4	Pan
BRE1	WBGene00007008	R05D3.4	SMP2	WBGene00010425	H37A05.1	Pan
BRE1	WBGene00007008	R05D3.4	SNF5	WBGene00011111	R07E5.3	Pan

BRE1	WBGene00007008	R05D3.4	TUF1	WBGene00007000	Y71H2_378.a	Pan
BRE1	WBGene00007008	R05D3.4	VIP1	WBGene00018508	F46F11.1	Pan
BRE1	WBGene00007008	R05D3.4	VMA7	WBGene00006918*	ZK970.4	Pan
BRE1	WBGene00007008	R05D3.4	VPS15	WBGene00014151	ZK930.1 & ZK930.7	Pan
BRE1	WBGene00007008	R05D3.4	VPS20	WBGene00022027	Y65B4A_182.b & Y65B4A_182.c	Pan
BRE1	WBGene00007008	R05D3.4	VPS34	WBGene00006932	B0025.1	Pan
BRE1	WBGene00007008	R05D3.4	VPS36	WBGene00008919	F17C11.8	Pan
BRE1	WBGene00007008	R05D3.4	VPS45	WBGene00016643	C44C1.1 & C44C1.4	Pan
BRE1	WBGene00007008	R05D3.4	VPS9	WBGene00012644	Y39A1A.5	Pan
BRE1	WBGene00007008	R05D3.4	VRP1	WBGene00020094	R144.4 & R144.8	Pan
BRE1	WBGene00007008	R05D3.4	YAF9	WBGene00001585	M04B2.3	Pan
BRE1	WBGene00007008	R05D3.4	YJL046W	WBGene00001590	C45G3.3	Pan
CAC2	WBGene00022141	Y71G12A_202.d	CTF18	WBGene00010676	K08F4.1	Pan
CAC2	WBGene00022141	Y71G12A_202.d	ISC1	WBGene00012105	T27F6.6	Pan
CAC2	WBGene00022141	Y71G12A_202.d	MRE11	WBGene00003405	ZC302.1	Pan
CAC2	WBGene00022141	Y71G12A_202.d	POL32	WBGene00011016	R04F11.3	Pan
CAC2	WBGene00022141	Y71G12A_202.d	RAD50	WBGene00004296	T04H1.4	Pan
CCR4	WBGene00000376	ZC518.3	ARP6	WBGene00007434	C08B11.6	Pan
CCR4	WBGene00000376	ZC518.3	ATP1	WBGene00010419*	H28O16.1	Pan
CCR4	WBGene00000376	ZC518.3	ATP5	WBGene00017856*	F27C1.7	Pan
CCR4	WBGene00000376	ZC518.3	CTF18	WBGene00010676	K08F4.1	Pan
CCR4	WBGene00000376	ZC518.3	CTK1	WBGene00007135	B0285.1 & B0285.2	Pan
CCR4	WBGene00000376	ZC518.3	DID4	WBGene00012903	Y46G5.m	Pan
CCR4	WBGene00000376	ZC518.3	GCS1	WBGene00010500	K02B12.7	Pan
CCR4	WBGene00000376	ZC518.3	KAR3	WBGene00002216	T09A5.2	Pan
CCR4	WBGene00000376	ZC518.3	LSM1	WBGene00003076	F40F8.9	Pan
CCR4	WBGene00000376	ZC518.3	LSM6	WBGene00003080	Y71G12A_187.b	Pan
CCR4	WBGene00000376	ZC518.3	LSM7	WBGene00003081	ZK593.7	Pan
CCR4	WBGene00000376	ZC518.3	MRE11	WBGene00003405	ZC302.1	Pan
CCR4	WBGene00000376	ZC518.3	MSY1	WBGene00006968	K08F11.4	Pan
CCR4	WBGene00000376	ZC518.3	MUS81	WBGene00016602	C43E11.2	Pan
CCR4	WBGene00000376	ZC518.3	NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	Pan
CCR4	WBGene00000376	ZC518.3	NHX1	WBGene00003733	F57C7.2	Pan
CCR4	WBGene00000376	ZC518.3	PIF1	WBGene00004028	Y18H1A_67.c & Y18H1A_67.d & Y18H1A_67.f	Pan
CCR4	WBGene00000376	ZC518.3	PIM1	WBGene00016391	C34B2.6	Pan
CCR4	WBGene00000376	ZC518.3	RAD27	WBGene00000794	Y47G6A_247.i	Pan
CCR4	WBGene00000376	ZC518.3	RAD50	WBGene00004296	T04H1.4	Pan
CCR4	WBGene00000376	ZC518.3	RAD51	WBGene00004297	Y43C5A.6	Pan
CCR4	WBGene00000376	ZC518.3	RAD54	WBGene00004298	W06D4.6	Pan
CCR4	WBGene00000376	ZC518.3	RAD6	WBGene00006701	C35B1.1	Pan
CCR4	WBGene00000376	ZC518.3	RVS161	WBGene00010272	F58G6.1	Pan
CCR4	WBGene00000376	ZC518.3	RVS167	WBGene00020209	T04C9.1 & ZK328.3	Pan
CCR4	WBGene00000376	ZC518.3	SAC1	WBGene00009264	F30A10.6	Pan
CCR4	WBGene00000376	ZC518.3	SGS1	WBGene00001865	T04A11.6	Pan
CCR4	WBGene00000376	ZC518.3	SIN3	WBGene00004117	F02E9.4	Pan
CCR4	WBGene00000376	ZC518.3	SNF8	WBGene00016167	C27F2.5	Pan
CCR4	WBGene00000376	ZC518.3	STP22	WBGene00015658	C09G12.9	Pan
CCR4	WBGene00000376	ZC518.3	TFP1	WBGene00013025*	Y49A3A.2	Pan

CCR4	WBGene00000376	ZC518.3	VAC14	WBGene00010565	K04G2.6	Pan
CCR4	WBGene00000376	ZC518.3	VPS20	WBGene00022027	Y65B4A_182.b & Y65B4A_182.c	Pan
CCR4	WBGene00000376	ZC518.3	VPS24	WBGene00020866	F59A6.7 & T27F7.1	Pan
CCR4	WBGene00000376	ZC518.3	VPS30	WBGene00000247	T19E7.3 & T19E7.4	Pan
CCR4	WBGene00000376	ZC518.3	VPS36	WBGene00008919	F17C11.8	Pan
CCR4	WBGene00000376	ZC518.3	VPS4	WBGene00021334	Y34D9A_152.a	Pan
CCR4	WBGene00000376	ZC518.3	VPS45	WBGene00016643	C44C1.1 & C44C1.4	Pan
CCR4	WBGene00000376	ZC518.3	YAF9	WBGene00001585	M04B2.3	Pan
CDC2	WBGene00008645	F10C2.4	CSM3	WBGene00017738	F23C8.9	Tong
CDC2	WBGene00008645	F10C2.4	POL32	WBGene00011016	R04F11.3	Tong
CDC2	WBGene00008645	F10C2.4	TRM10	WBGene00009131	F25H8.1	Tong
CDC40	WBGene00018625	F49D11.1	GPI10	WBGene00020868	T27F7.3	Davierwala
CDC40	WBGene00018625	F49D11.1	GWT1	WBGene00022447	Y110A2A_1898.d & Y110A2A_1898.e &	Davierwala
CDC40	WBGene00018625	F49D11.1	PRP16	WBGene00003389	Y110A2A_54.a	Davierwala
CDC40	WBGene00018625	F49D11.1	PSF2	WBGene00009287	K03H1.2	Davierwala
CDC40	WBGene00018625	F49D11.1	RTS2	WBGene00013128	F31C3.5	Davierwala
CDC40	WBGene00018625	F49D11.1	YGL047W	WBGene00011193	Y52B11A.9	Davierwala
CDC42	WBGene00000390	R07G3.1	CAP1	WBGene00000292	R10D12.12	Tong
CDC42	WBGene00000390	R07G3.1	CAP2	WBGene00000293	D2024.6	Tong
CDC42	WBGene00000390	R07G3.1	ELP3	WBGene00014123	M106.5	Tong
CDC42	WBGene00000390	R07G3.1	FAD1	WBGene00011271	ZK863.3	Davierwala
CDC42	WBGene00000390	R07G3.1	HRT1	WBGene00004320	R53.1	Davierwala
CDC42	WBGene00000390	R07G3.1	RPC40	WBGene00019275	ZK287.5	Davierwala
CDC42	WBGene00000390	R07G3.1	UBA4	WBGene00018357	H43I07.2	Tong
CDC42	WBGene00000390	R07G3.1	YGL211W	WBGene00017928	F42G8.6	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	BUB2	WBGene00016352	F29C4.6	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	CSM3	WBGene00017738	C33F10.2	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	CTF18	WBGene00010676	F23C8.9	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	DPB3	WBGene00013150	K08F4.1	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	FAB1	WBGene00004089	Y53F4B.d	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	GIM4	WBGene00019220	C05E7.5 & VF11C1L.1	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	GIM5	WBGene00020112	H20J04.d	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	HAT1	WBGene00010841	R151.9	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	HTZ1	WBGene00019947	M03C11.4	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	KAR3	WBGene00002216	R08C7.3	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	KEM1	WBGene00012730	T09A5.2	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	LEO1	WBGene00007110	Y39G8CY39G8C.1 & Y39G8C.b.b	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	LSM1	WBGene00003076	B0035.11	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	MAD2	WBGene00003161	F40F8.9	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	NPR2	WBGene00018635	Y69A2A_2326.a	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	POL32	WBGene00011016	F49E8.1	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	RAD54	WBGene00004298	R04F11.3	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	RTF1	WBGene00009103	W06D4.6	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	SCS7	WBGene00007707	F25B3.6	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	SEC22	WBGene00018853	C25A1.5	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	TOP1	WBGene00006595	F55A4.1	Tong
CDC45	WBGene00009372	F34D10.2 & F34D10.3	YJR070C	WBGene00007555	M01E5.5	Tong
CHL1	WBGene00010839	M03C11.2	GIM3	WBGene00007107	C14A4.1	Tong

CHL1	WBGene00010839	M03C11.2	GIM5	WBGene00020112	B0035.4	Tong
CHL1	WBGene00010839	M03C11.2	MAD2	WBGene00003161	R151.9	Tong
CHL1	WBGene00010839	M03C11.2	RAD27	WBGene00000794	Y69A2A_2326.a	Tong, Pan
CHL1	WBGene00010839	M03C11.2	YKE2	WBGene00009004	Y47G6A_247.i	Tong
CHS5	WBGene00022615	ZC449.5	ARC18	WBGene00000203	F21C3.5	Tong
CHS5	WBGene00022615	ZC449.5	ASC1	WBGene00010556	Y37D8A.1	Tong
CHS5	WBGene00022615	ZC449.5	BRE1	WBGene00007008	K04D7.1	Tong
CHS5	WBGene00022615	ZC449.5	COX11	WBGene00010437	R05D3.4	Tong
CHS5	WBGene00022615	ZC449.5	EMP24	WBGene00004766	JC8.5	Tong
CHS5	WBGene00022615	ZC449.5	FAB1	WBGene00004089	W02D7.7	Tong
CHS5	WBGene00022615	ZC449.5	HSE1	WBGene00004109	C05E7.5 & VF11C1L.1	Tong
CHS5	WBGene00022615	ZC449.5	LAT1	WBGene00009082	C34G6.7	Tong
CHS5	WBGene00022615	ZC449.5	LEA1	WBGene00019223	F23B12.5	Tong
CHS5	WBGene00022615	ZC449.5	LSM6	WBGene00003080	H20J04.c	Tong
CHS5	WBGene00022615	ZC449.5	MRE11	WBGene00003405	Y71G12A_187.b	Tong
CHS5	WBGene00022615	ZC449.5	PET8	WBGene00008364	ZC302.1	Tong
CHS5	WBGene00022615	ZC449.5	PRE9	WBGene00003924	D1046.3	Tong
CHS5	WBGene00022615	ZC449.5	RVS161	WBGene00010272	Y110A7A.f & Y110A7A.j	Tong
CHS5	WBGene00022615	ZC449.5	SEC22	WBGene00018853	F58G6.1	Tong
CHS5	WBGene00022615	ZC449.5	VPS24	WBGene00020866	F55A4.1	Tong
CHS5	WBGene00022615	ZC449.5	YDL033C	WBGene00007114	F59A6.7 & T27F7.1	Tong
CNE1	WBGene00000567	ZK632.6	PEX1	WBGene00004191	B0035.16	Tong
CNE1	WBGene00000567	ZK632.6	YNR036C	WBGene00011391	C11H1.4 & C11H1.6	Tong
CSM3	WBGene00017738	F23C8.9	BUB2	WBGene00016352	T03D8.2	Tong
CSM3	WBGene00017738	F23C8.9	CSN12	WBGene00016171	C33F10.2	Tong
CSM3	WBGene00017738	F23C8.9	DOC1	WBGene00000144	C27F2.7	Pan
CSM3	WBGene00017738	F23C8.9	GIM3	WBGene00007107	F15H10.3	Tong
CSM3	WBGene00017738	F23C8.9	GIM4	WBGene00019220	B0035.4	Tong
CSM3	WBGene00017738	F23C8.9	GIM5	WBGene00020112	H20J04.d	Tong, Pan
CSM3	WBGene00017738	F23C8.9	GUF1	WBGene00022862	R151.9	Pan
CSM3	WBGene00017738	F23C8.9	ISC1	WBGene00012105	ZK1236.1	Tong
CSM3	WBGene00017738	F23C8.9	LSM7	WBGene00003081	T27F6.6	Pan
CSM3	WBGene00017738	F23C8.9	MAK3	WBGene00015074	ZK593.7	Pan
CSM3	WBGene00017738	F23C8.9	MRE11	WBGene00003405	B0238.10	Pan
CSM3	WBGene00017738	F23C8.9	NAT1	WBGene00021754	ZC302.1	Pan
CSM3	WBGene00017738	F23C8.9	NPR2	WBGene00018635	Y50D7_162.b & Y50D7_164.a	Pan
CSM3	WBGene00017738	F23C8.9	PAC10	WBGene00006889	F49E8.1	Tong
CSM3	WBGene00017738	F23C8.9	POL32	WBGene00011016	T06G6.9	Tong, Pan
CSM3	WBGene00017738	F23C8.9	POP1	WBGene00015486	R04F11.3	Davierwala
CSM3	WBGene00017738	F23C8.9	RAD5	WBGene00010061	C05D11.9	Tong, Pan
CSM3	WBGene00017738	F23C8.9	RAD50	WBGene00004296	F54E12.2	Pan
CSM3	WBGene00017738	F23C8.9	RAD51	WBGene00004297	T04H1.4	Pan
CSM3	WBGene00017738	F23C8.9	RAD54	WBGene00004298	Y43C5A.6	Pan
CSM3	WBGene00017738	F23C8.9	RAD6	WBGene00006701	W06D4.6	Pan
CSM3	WBGene00017738	F23C8.9	RPN10	WBGene00004466	C35B1.1	Pan
CSM3	WBGene00017738	F23C8.9	VIP1	WBGene00018508	B0205.3	Pan
CSM3	WBGene00017738	F23C8.9	YKE2	WBGene00009004	F46F11.1	Tong
CTF18	WBGene00010676	K08F4.1	ARP6	WBGene00007434	F21C3.5	Tong

CTF18	WBGene00010676	K08F4.1	ASC1	WBGene00010556	C08B11.6	Pan
CTF18	WBGene00010676	K08F4.1	BUB2	WBGene00016352	K04D7.1	Pan
CTF18	WBGene00010676	K08F4.1	CHD1	WBGene00010369	C33F10.2	Pan
CTF18	WBGene00010676	K08F4.1	CHL1	WBGene00010839	H06O01.2	Tong, Pan
CTF18	WBGene00010676	K08F4.1	CSM3	WBGene00017738	M03C11.2	Tong, Pan
CTF18	WBGene00010676	K08F4.1	CTK1	WBGene00007135	F23C8.9	Pan
CTF18	WBGene00010676	K08F4.1	DPB3	WBGene00013150	B0285.1 & B0285.2	Pan
CTF18	WBGene00010676	K08F4.1	GIM3	WBGene00007107	Y53F4B.d	Tong, Pan
CTF18	WBGene00010676	K08F4.1	GIM4	WBGene00019220	B0035.4	Tong, Pan
CTF18	WBGene00010676	K08F4.1	GIM5	WBGene00020112	H20J04.d	Tong, Pan
CTF18	WBGene00010676	K08F4.1	HTZ1	WBGene00019947	R151.9	Tong, Pan
CTF18	WBGene00010676	K08F4.1	ISC1	WBGene00012105	R08C7.3	Pan
CTF18	WBGene00010676	K08F4.1	KAR3	WBGene00002216	T27F6.6	Pan
CTF18	WBGene00010676	K08F4.1	LSM1	WBGene00003076	T09A5.2	Pan
CTF18	WBGene00010676	K08F4.1	LSM7	WBGene00003081	F40F8.9	Pan
CTF18	WBGene00010676	K08F4.1	MAD2	WBGene00003161	ZK593.7	Tong, Pan
CTF18	WBGene00010676	K08F4.1	MRE11	WBGene00003405	Y69A2A_2326.a	Tong, Pan
CTF18	WBGene00010676	K08F4.1	NAT1	WBGene00021754	ZC302.1	Pan
CTF18	WBGene00010676	K08F4.1	PAC10	WBGene00006889	Y50D7_162.b & Y50D7_164.a	Tong, Pan
CTF18	WBGene00010676	K08F4.1	PEP5	WBGene00011067	T06G6.9	Pan
CTF18	WBGene00010676	K08F4.1	POL32	WBGene00011016	R06F6.2	Tong, Pan
CTF18	WBGene00010676	K08F4.1	POP2	WBGene00000369	R04F11.3	Pan
CTF18	WBGene00010676	K08F4.1	RAD23	WBGene00013924	Y56A3A.20	Tong
CTF18	WBGene00010676	K08F4.1	RAD5	WBGene00010061	ZK20.3	Tong, Pan
CTF18	WBGene00010676	K08F4.1	RAD50	WBGene00004296	F54E12.2	Tong, Pan
CTF18	WBGene00010676	K08F4.1	RAD51	WBGene00004297	T04H1.4	Tong, Pan
CTF18	WBGene00010676	K08F4.1	RAD54	WBGene00004298	Y43C5A.6	Tong, Pan
CTF18	WBGene00010676	K08F4.1	RAD6	WBGene00006701	W06D4.6	Pan
CTF18	WBGene00010676	K08F4.1	RPN10	WBGene00004466	C35B1.1	Pan
CTF18	WBGene00010676	K08F4.1	SNF8	WBGene00016167	B0205.3	Pan
CTF18	WBGene00010676	K08F4.1	STP22	WBGene00015658	C27F2.5	Pan
CTF18	WBGene00010676	K08F4.1	UBP14	WBGene00020839	C09G12.9	Pan
CTF18	WBGene00010676	K08F4.1	VIP1	WBGene00018508	T27A3.2	Pan
CTF18	WBGene00010676	K08F4.1	VPS16	WBGene00006516	F46F11.1	Pan
CTF18	WBGene00010676	K08F4.1	VPS20	WBGene00022027	C05D11.2	Pan
CTF18	WBGene00010676	K08F4.1	VPS25	WBGene00012193	Y65B4A_182.b & Y65B4A_182.c	Pan
CTF18	WBGene00010676	K08F4.1	VPS34	WBGene00006932	W02A11.2	Pan
CTF18	WBGene00010676	K08F4.1	VPS36	WBGene00008919	B0025.1	Pan
CTF18	WBGene00010676	K08F4.1	VPS45	WBGene00016643	F17C11.8	Pan
CTF18	WBGene00010676	K08F4.1	YAF9	WBGene00001585	C44C1.1 & C44C1.4	Pan
CWH41	WBGene00008775	F13H10.4	EMP24	WBGene00004766	M04B2.3	Tong
CWH41	WBGene00008775	F13H10.4	LEA1	WBGene00019223	W02D7.7	Tong
CWH41	WBGene00008775	F13H10.4	PER1	WBGene00019806	H20J04.c	Tong
CWH41	WBGene00008775	F13H10.4	SNF4	WBGene00013732	R01B10.4	Tong
CWH41	WBGene00008775	F13H10.4	YBR235W	WBGene00020207	Y111B2C.h	Tong
DIE2	WBGene00011987	T24D1.4	OST3	WBGene00022793	T04B8.5	Tong
DPB3	WBGene00013150	Y53F4B.d	HTZ1	WBGene00019947	ZK686.3	Pan
DYN1	WBGene00000962	T21E12.4	GIM3	WBGene00007107	R08C7.3	Tong

DYN1	WBGene00000962	T21E12.4	GIM4	WBGene00019220	B0035.4	Tong
DYN1	WBGene00000962	T21E12.4	GIM5	WBGene00020112	H20J04.d	Tong
DYN1	WBGene00000962	T21E12.4	HCM1	WBGene00001442	R151.9	Tong
DYN1	WBGene00000962	T21E12.4	KAR3	WBGene00002216	C25A1.2	Tong
DYN1	WBGene00000962	T21E12.4	PAC10	WBGene00006889	T09A5.2	Tong
DYN1	WBGene00000962	T21E12.4	YKE2	WBGene00009004	T06G6.9	Tong
DYN2	WBGene00001130	C02C6.1	GIM3	WBGene00007107	F21C3.5	Tong
DYN2	WBGene00001130	C02C6.1	GIM4	WBGene00019220	B0035.4	Tong
DYN2	WBGene00001130	C02C6.1	GIM5	WBGene00020112	H20J04.d	Tong
DYN2	WBGene00001130	C02C6.1	PAC10	WBGene00006889	R151.9	Tong
DYN2	WBGene00001130	C02C6.1	YKE2	WBGene00009004	T06G6.9	Tong
GIM3	WBGene00007107	B0035.4	BUB2	WBGene00016352	F21C3.5	Tong
GIM3	WBGene00007107	B0035.4	FAB1	WBGene00004089	C33F10.2	Tong
GIM3	WBGene00007107	B0035.4	HTZ1	WBGene00019947	C05E7.5 & VF11C1L.1	Tong
GIM3	WBGene00007107	B0035.4	NCL1	WBGene00021686	R08C7.3	Tong
GIM3	WBGene00007107	B0035.4	PAN3	WBGene00014015	Y48G8A_2614.a	Tong
GIM3	WBGene00007107	B0035.4	PER1	WBGene00019806	ZK632.7	Tong
GIM3	WBGene00007107	B0035.4	PLP1	WBGene00015482	R01B10.4	Tong
GIM3	WBGene00007107	B0035.4	STE24	WBGene00001405	C05D11.3	Tong
GIM3	WBGene00007107	B0035.4	UBA4	WBGene00018357	C04F12.10	Tong
GIM3	WBGene00007107	B0035.4	VAC14	WBGene00010565	F42G8.6	Tong
GIM3	WBGene00007107	B0035.4	VPS29	WBGene00014234	K04G2.6	Tong
GIM3	WBGene00007107	B0035.4	VRP1	WBGene00020094	ZK1128.8	Tong
GIM3	WBGene00007107	B0035.4	YBR108W	WBGene00004110	R144.4 & R144.8	Tong
GIM3	WBGene00007107	B0035.4	YGR054W	WBGene00008480	C37A2.2	Tong
GIM3	WBGene00007107	B0035.4	YTA7	WBGene00008682	E04D5.1	Tong
GIM4	WBGene00019220	H20J04.d	BUB2	WBGene00016352	F11A10.1	Tong
GIM4	WBGene00019220	H20J04.d	CAP2	WBGene00000293	C33F10.2	Tong
GIM4	WBGene00019220	H20J04.d	CHL1	WBGene00010839	M106.5	Tong
GIM4	WBGene00019220	H20J04.d	DNM1	WBGene00001093	M03C11.2	Tong
GIM4	WBGene00019220	H20J04.d	FAB1	WBGene00004089	T12E12.4	Tong
GIM4	WBGene00019220	H20J04.d	HSE1	WBGene00004109	C05E7.5 & VF11C1L.1	Tong
GIM4	WBGene00019220	H20J04.d	HTZ1	WBGene00019947	C34G6.7	Tong
GIM4	WBGene00019220	H20J04.d	ISC1	WBGene00012105	R08C7.3	Tong
GIM4	WBGene00019220	H20J04.d	MMS2	WBGene00006730	T27F6.6	Tong
GIM4	WBGene00019220	H20J04.d	NCL1	WBGene00021686	F39B2.2	Tong
GIM4	WBGene00019220	H20J04.d	PAC2	WBGene00019503	Y48G8A_2614.a	Tong
GIM4	WBGene00019220	H20J04.d	PAN3	WBGene00014015	K07H8.1	Tong
GIM4	WBGene00019220	H20J04.d	PER1	WBGene00019806	ZK632.7	Tong
GIM4	WBGene00019220	H20J04.d	STE24	WBGene00001405	R01B10.4	Tong
GIM4	WBGene00019220	H20J04.d	UBA4	WBGene00018357	C04F12.10	Tong
GIM4	WBGene00019220	H20J04.d	VAC14	WBGene00010565	F42G8.6	Tong
GIM4	WBGene00019220	H20J04.d	VPS29	WBGene00014234	K04G2.6	Tong
GIM4	WBGene00019220	H20J04.d	VRP1	WBGene00020094	ZK1128.8	Tong
GIM4	WBGene00019220	H20J04.d	YJR129C	WBGene00011148	R144.4 & R144.8	Tong
GIM4	WBGene00019220	H20J04.d	YTA7	WBGene00008682	R08D7.4	Tong
GIM5	WBGene00020112	R151.9	BUB2	WBGene00016352	F11A10.1	Tong
GIM5	WBGene00020112	R151.9	CAF40	WBGene00016139	C33F10.2	Tong

GIM5	WBGene00020112	R151.9	CAP2	WBGene00000293	C26E6.3	Tong
GIM5	WBGene00020112	R151.9	DNM1	WBGene00001093	M106.5	Tong
GIM5	WBGene00020112	R151.9	FAB1	WBGene00004089	T12E12.4	Tong
GIM5	WBGene00020112	R151.9	HTZ1	WBGene00019947	C05E7.5 & VF11C1L.1	Tong
GIM5	WBGene00020112	R151.9	KEM1	WBGene00012730	R08C7.3	Tong
GIM5	WBGene00020112	R151.9	MAK3	WBGene00015074	Y39G8C.Y39G8C.1 & Y39G8C.bb	Tong
GIM5	WBGene00020112	R151.9	MMS2	WBGene00006730	B0238.10	Tong
GIM5	WBGene00020112	R151.9	NCL1	WBGene00021686	F39B2.2	Tong
GIM5	WBGene00020112	R151.9	PAN3	WBGene00014015	Y48G8A_2614.a	Tong
GIM5	WBGene00020112	R151.9	PLP1	WBGene00015482	ZK632.7	Tong
GIM5	WBGene00020112	R151.9	SPF1	WBGene00007514	C05D11.3	Tong
GIM5	WBGene00020112	R151.9	STE24	WBGene00001405	C10C6.6	Tong
GIM5	WBGene00020112	R151.9	UBA4	WBGene00018357	C04F12.10	Tong
GIM5	WBGene00020112	R151.9	UGA1	WBGene00001794	F42G8.6	Tong
GIM5	WBGene00020112	R151.9	VAC14	WBGene00010565	K04D7.3	Tong
GIM5	WBGene00020112	R151.9	VPS29	WBGene00014234	K04G2.6	Tong
GIM5	WBGene00020112	R151.9	VPS35	WBGene00006933	ZK1128.8	Tong
GIM5	WBGene00020112	R151.9	VRP1	WBGene00020094	F59G1.3	Tong
GIM5	WBGene00020112	R151.9	YBR108W	WBGene00004110	R144.4 & R144.8	Tong
GIM5	WBGene00020112	R151.9	YGR054W	WBGene00008480	C37A2.2	Tong
GIM5	WBGene00020112	R151.9	YTA7	WBGene00008682	E04D5.1	Tong
GYP1	WBGene00009322	F32B6.8	ARL1	WBGene00000187	F11A10.1	Tong
GYP1	WBGene00009322	F32B6.8	COG6	WBGene00019481	F54C9.10	Tong
GYP1	WBGene00009322	F32B6.8	COG8	WBGene00011736	K07C11.9	Tong
GYP1	WBGene00009322	F32B6.8	SCS7	WBGene00007707	T12D8.9	Tong
GYP1	WBGene00009322	F32B6.8	SEC22	WBGene00018853	C25A1.5	Tong
GYP1	WBGene00009322	F32B6.8	YPT6	WBGene00009880	F55A4.1	Tong
KAR3	WBGene00002216	T09A5.2	ARP6	WBGene00007434	F49C12.11	Tong
KAR3	WBGene00002216	T09A5.2	BUB2	WBGene00016352	C08B11.6	Tong
KAR3	WBGene00002216	T09A5.2	CHL1	WBGene00010839	C33F10.2	Tong
KAR3	WBGene00002216	T09A5.2	CSM3	WBGene00017738	M03C11.2	Tong, Pan
KAR3	WBGene00002216	T09A5.2	GIM3	WBGene00007107	F23C8.9	Tong
KAR3	WBGene00002216	T09A5.2	GIM4	WBGene00019220	B0035.4	Tong
KAR3	WBGene00002216	T09A5.2	GIM5	WBGene00020112	H20J04.d	Tong
KAR3	WBGene00002216	T09A5.2	KEM1	WBGene00012730	R151.9	Tong
KAR3	WBGene00002216	T09A5.2	MAD2	WBGene00003161	Y39G8C.1 & Y39G8C.b	Tong
KAR3	WBGene00002216	T09A5.2	PAC10	WBGene00006889	Y69A2A_2326.a	Tong
KAR3	WBGene00002216	T09A5.2	PRE9	WBGene00003924	T06G6.9	Tong
KAR3	WBGene00002216	T09A5.2	RPN10	WBGene00004466	Y110A7A.f & Y110A7A.j	Tong, Pan
KAR3	WBGene00002216	T09A5.2	RRD2	WBGene00022185	B0205.3	Tong
KAR3	WBGene00002216	T09A5.2	YKE2	WBGene00009004	Y71H2_388.b & Y71H2_388.c & Y71H2_388.f	Tong
LAS21	WBGene00009204	F28C6.4	LEA1	WBGene00019223	F21C3.5	Tong
LAS21	WBGene00009204	F28C6.4	YPR045C	WBGene00017158	H20J04.c	Tong
LIA1	WBGene00007555	C14A4.1	AAH1	WBGene00015551	F01F1.1	Tong
LIA1	WBGene00007555	C14A4.1	RTF1	WBGene00009103	C06G3.5	Tong
MAD2	WBGene00003161	Y69A2A_2326.a	GIM3	WBGene00007107	F25B3.6	Tong
MAD2	WBGene00003161	Y69A2A_2326.a	GIM4	WBGene00019220	B0035.4	Tong
MAD2	WBGene00003161	Y69A2A_2326.a	GIM5	WBGene00020112	H20J04.d	Tong

MAD2	WBGene00003161	Y69A2A_2326.a	HCM1	WBGene00001442	R151.9	Tong
MAD2	WBGene00003161	Y69A2A_2326.a	HTZ1	WBGene00019947	C25A1.2	Tong
MAD2	WBGene00003161	Y69A2A_2326.a	PAC10	WBGene00006889	R08C7.3	Tong
MAD2	WBGene00003161	Y69A2A_2326.a	YKE2	WBGene00009004	T06G6.9	Tong
MRE11	WBGene00003405	ZC302.1	CTK1	WBGene00007135	F21C3.5	Pan
MRE11	WBGene00003405	ZC302.1	KEM1	WBGene00012730	B0285.1 & B0285.2	Pan
MRE11	WBGene00003405	ZC302.1	LSM1	WBGene00003076	Y39G8C.1 & Y39G8C.b	Pan
MRE11	WBGene00003405	ZC302.1	LSM6	WBGene00003080	F40F8.9	Pan
MRE11	WBGene00003405	ZC302.1	LSM7	WBGene00003081	Y71G12A_187.b	Pan
MRE11	WBGene00003405	ZC302.1	MUS81	WBGene00016602	ZK593.7	Pan
MRE11	WBGene00003405	ZC302.1	NAT1	WBGene00021754	C43E11.2	Pan
MRE11	WBGene00003405	ZC302.1	POL32	WBGene00011016	Y50D7_162.b & Y50D7_164.a	Pan
MRE11	WBGene00003405	ZC302.1	POP2	WBGene00000369	R04F11.3	Pan
MRE11	WBGene00003405	ZC302.1	RAD5	WBGene00010061	Y56A3A.20	Pan
MRE11	WBGene00003405	ZC302.1	RAD6	WBGene00006701	F54E12.2	Pan
MRE11	WBGene00003405	ZC302.1	RPN10	WBGene00004466	C35B1.1	Pan
MRE11	WBGene00003405	ZC302.1	SGS1	WBGene00001865	B0205.3	Pan
MRE11	WBGene00003405	ZC302.1	STP22	WBGene00015658	T04A11.6	Pan
MRE11	WBGene00003405	ZC302.1	VPS15	WBGene00014151	C09G12.9	Pan
MRE11	WBGene00003405	ZC302.1	VPS34	WBGene00006932	ZK930.1 & ZK930.7	Pan
MRE11	WBGene00003405	ZC302.1	YDR140W	WBGene00016341	B0025.1	Pan
MRE11	WBGene00003405	ZC302.1	YER087W	WBGene00004190	C33C12.9	Pan
MUS81	WBGene00016602	C43E11.2	POL32	WBGene00011016	T27F6.5	Pan
MUS81	WBGene00016602	C43E11.2	POP2	WBGene00000369	R04F11.3	Pan
MUS81	WBGene00016602	C43E11.2	RAD54	WBGene00004298	Y56A3A.20	Pan
MUS81	WBGene00016602	C43E11.2	RAD6	WBGene00006701	W06D4.6	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	ARC18	WBGene00000203	C35B1.1	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	ARP6	WBGene00007434	Y37D8A.1	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	BUD13	WBGene00011142	C08B11.6	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	CBC2	WBGene00009141	R08D7.1	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	COX6	WBGene00012553	F26A3.2	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	CRD1	WBGene00017763	Y37D8A.14	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	DOA1	WBGene00007333	F23H11.9	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	DPB3	WBGene00013150	C05C10.6	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	FAB1	WBGene00004089	Y53F4B.d	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	GIM3	WBGene00007107	C05E7.5 & VF11C1L.1	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	GLO3	WBGene00017217	B0035.4	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	HTZ1	WBGene00019947	F07F6.4	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	IFM1	WBGene00009771	R08C7.3	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	IST3	WBGene00016245	F46B6.6	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	LEA1	WBGene00019223	C30B5.4	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	LSM1	WBGene00003076	H20J04.c	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	LSM6	WBGene00003080	F40F8.9	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	LSM7	WBGene00003081	Y71G12A_187.b	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	MIP1	WBGene00013258	ZK593.7	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	MRF1	WBGene00020993	Y57A10A.m	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	PAC10	WBGene00006889	W03F8.3	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	PEP3	WBGene00021058	T06G6.9	Pan

NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	PEP5	WBGene00011067	W06B4.3	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	PEX1	WBGene00004191	R06F6.2	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	PEX12	WBGene00004197	C11H1.4 & C11H1.6	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	PEX13	WBGene00004198	F08B12.2	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	PEX5	WBGene00004194	F32A5.6	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	PEX6	WBGene00004195	C34C6.6	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	PHB2	WBGene00004015	F39G3.7	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	PIM1	WBGene00016391	T24H7.1	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	POL32	WBGene00011016	C34B2.6	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	POP2	WBGene00000369	R04F11.3	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	PPA1	WBGene00011347*	Y56A3A.20	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	RAD27	WBGene00000794	T01H3.1	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	RAD5	WBGene00010061	Y47G6A_247.i	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	RAD50	WBGene00004296	F54E12.2	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	RAD51	WBGene00004297	T04H1.4	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	RAD54	WBGene00004298	Y43C5A.6	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	RVS161	WBGene00010272	W06D4.6	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	RVS167	WBGene00020209	F58G6.1	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	SAC1	WBGene00009264	T04C9.1 & ZK328.3	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	SCS7	WBGene00007707	F30A10.6	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	SER2	WBGene00013379	C25A1.5	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	SET2	WBGene00021515	Y62E10A.m	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	SIN3	WBGene00004117	Y41D4A_2615.a & Y41D4A_3457.b	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	SMP2	WBGene00010425	F02E9.4	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	SNF8	WBGene00016167	H37A05.1	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	STP22	WBGene00015658	C27F2.5	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	SWD1	WBGene00017683	C09G12.9	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	VMA4	WBGene00006917*	F21H12.1	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	VMA8	WBGene00010130	C17H12.14	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	VPS20	WBGene00022027	F55H2.2	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	VPS25	WBGene00012193	Y65B4A_182.b & Y65B4A_182.c	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	VPS27	WBGene00004101	W02A11.2	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	VPS36	WBGene00008919	C07G1.5	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	VPS45	WBGene00016643	F17C11.8	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	VPS9	WBGene00012644	C44C1.1 & C44C1.4	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	VRP1	WBGene00020094	Y39A1A.5	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	YAF9	WBGene00001585	R144.4 & R144.8	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	YER087W	WBGene00004190	M04B2.3	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	YGR046W	WBGene00022126	T27F6.5	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	YKE2	WBGene00009004	Y71F9B_275.b & Y71F9B_297.d	Pan
NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	YMR293C	WBGene00021508	F21C3.5	Pan
NIP7	WBGene00016607	C43E11.9	ABD1	WBGene00006447	Y41D4A_3192.a	Davierwala
NIP7	WBGene00016607	C43E11.9	BET3	WBGene00014222	C25A1.3	Davierwala
NIP7	WBGene00016607	C43E11.9	CDC16	WBGene00001281	ZK1098.5	Davierwala
NIP7	WBGene00016607	C43E11.9	CFT2	WBGene00017313	F10B5.6	Davierwala
NIP7	WBGene00016607	C43E11.9	CWC22	WBGene00002957	F09G2.4	Davierwala
NIP7	WBGene00016607	C43E11.9	MCD4	WBGene00021840	F33A8.1	Davierwala
NIP7	WBGene00016607	C43E11.9	MVD1	WBGene00012984	M01B12.2 & Y54E10B_159.a	Davierwala

NIP7	WBGene00016607	C43E11.9	PDS5	WBGene00001352	Y48B6A.13a	Davierwala
NIP7	WBGene00016607	C43E11.9	POL12	WBGene00001002	H38K22.1	Davierwala
NIP7	WBGene00016607	C43E11.9	PRO3	WBGene00010924	R01H10.1	Davierwala
NIP7	WBGene00016607	C43E11.9	PRP16	WBGene00003389	M153.1	Davierwala
NIP7	WBGene00016607	C43E11.9	RIM2	WBGene00011662	K03H1.2	Davierwala
NIP7	WBGene00016607	C43E11.9	RIX7	WBGene00003119	T09F3.2	Davierwala
NIP7	WBGene00016607	C43E11.9	RNA15	WBGene00000774	Y48C3A.i	Davierwala
NOP1	WBGene00001423	T01C3.7	BET3	WBGene00014222	F56A8.6	Davierwala
NOP1	WBGene00001423	T01C3.7	CWC22	WBGene00002957	ZK1098.5	Davierwala
NOP1	WBGene00001423	T01C3.7	LCP5	WBGene00003059	F33A8.1	Davierwala
NOP1	WBGene00001423	T01C3.7	MAS1	WBGene00013880	C48E7.3	Davierwala
NOP1	WBGene00001423	T01C3.7	MSS4	WBGene00004087	ZC410.2	Davierwala
NOP1	WBGene00001423	T01C3.7	PRP16	WBGene00003389	F55A12.3	Davierwala
NOP1	WBGene00001423	T01C3.7	PRP28	WBGene00017162	K03H1.2	Davierwala
NOP1	WBGene00001423	T01C3.7	RKI1	WBGene00015101	F01F1.7	Davierwala
NOP1	WBGene00001423	T01C3.7	SEC17	WBGene00017016	B0280.3	Davierwala
NOP1	WBGene00001423	T01C3.7	TAF1	WBGene00006382	D1014.3	Davierwala
NOP1	WBGene00001423	T01C3.7	UGP1	WBGene00010665	W04A8.7 & Y71A12B.a & Y71A12B.b &	Davierwala
NOP1	WBGene00001423	T01C3.7	UTP11	WBGene00007623	Y71A12B.c	Davierwala
NOP1	WBGene00001423	T01C3.7	YNR054C	WBGene00019005	K08E3.5	Davierwala
NOP1	WBGene00001423	T01C3.7	YOR287C	WBGene00020705	C16C10.2	Davierwala
PAC1	WBGene00003047	T03F6.5	CAP1	WBGene00000292	F57B10.8	Tong
PAC1	WBGene00003047	T03F6.5	FAB1	WBGene00004089	T22H9.1	Tong
PAC1	WBGene00003047	T03F6.5	GIM3	WBGene00007107	D2024.6	Tong
PAC1	WBGene00003047	T03F6.5	GIM4	WBGene00019220	C05E7.5 & VF11C1L.1	Tong
PAC1	WBGene00003047	T03F6.5	GIM5	WBGene00020112	B0035.4	Tong
PAC1	WBGene00003047	T03F6.5	KAR3	WBGene00002216	H20J04.d	Tong
PAC1	WBGene00003047	T03F6.5	PAC10	WBGene00006889	R151.9	Tong
PAC1	WBGene00003047	T03F6.5	YHR168W	WBGene00010805	T09A5.2	Tong
PAC1	WBGene00003047	T03F6.5	YKE2	WBGene00009004	T06G6.9	Tong
PAC10	WBGene00006889	T06G6.9	AFG1	WBGene00016261	M01E5.2	Tong
PAC10	WBGene00006889	T06G6.9	BUB2	WBGene00016352	F21C3.5	Tong
PAC10	WBGene00006889	T06G6.9	CAF40	WBGene00016139	C30F12.2	Tong
PAC10	WBGene00006889	T06G6.9	CAP2	WBGene00000293	C33F10.2	Tong
PAC10	WBGene00006889	T06G6.9	CHL1	WBGene00010839	C26E6.3	Tong
PAC10	WBGene00006889	T06G6.9	DNM1	WBGene00001093	M106.5	Tong
PAC10	WBGene00006889	T06G6.9	FAB1	WBGene00004089	M03C11.2	Tong
PAC10	WBGene00006889	T06G6.9	HSE1	WBGene00004109	T12E12.4	Tong
PAC10	WBGene00006889	T06G6.9	HTZ1	WBGene00019947	C05E7.5 & VF11C1L.1	Tong
PAC10	WBGene00006889	T06G6.9	KEM1	WBGene00012730	C34G6.7	Tong
PAC10	WBGene00006889	T06G6.9	MAK3	WBGene00015074	R08C7.3	Tong
PAC10	WBGene00006889	T06G6.9	MMS2	WBGene00006730	Y39G8C.Y39G8C.1 & Y39G8C.bb	Tong
PAC10	WBGene00006889	T06G6.9	NCL1	WBGene00021686	B0238.10	Tong
PAC10	WBGene00006889	T06G6.9	PER1	WBGene00019806	F39B2.2	Tong
PAC10	WBGene00006889	T06G6.9	PLP1	WBGene00015482	Y48G8A_2614.a	Tong
PAC10	WBGene00006889	T06G6.9	SPF1	WBGene00007514	R01B10.4	Tong
PAC10	WBGene00006889	T06G6.9	STE24	WBGene00001405	C05D11.3	Tong
PAC10	WBGene00006889	T06G6.9	UBA4	WBGene00018357	C10C6.6	Tong

PAC10	WBGene00006889	T06G6.9	UTR4	WBGene00010286	C04F12.10	Tong
PAC10	WBGene00006889	T06G6.9	VPS29	WBGene00014234	F42G8.6	Tong
PAC10	WBGene00006889	T06G6.9	VRP1	WBGene00020094	F58H1.3	Tong
PAC10	WBGene00006889	T06G6.9	YBR108W	WBGene00004110	ZK1128.8	Tong
PAC10	WBGene00006889	T06G6.9	YGR054W	WBGene00008480	R144.4 & R144.8	Tong
PAC10	WBGene00006889	T06G6.9	YJR129C	WBGene00011148	C37A2.2	Tong
PAC2	WBGene00019503	K07H8.1	CTF18	WBGene00010676	E04D5.1	Tong
PAC2	WBGene00019503	K07H8.1	GIM3	WBGene00007107	R08D7.4	Tong
PAC2	WBGene00019503	K07H8.1	GIM5	WBGene00020112	K08F4.1	Tong
PAC2	WBGene00019503	K07H8.1	MAD2	WBGene00003161	B0035.4	Tong
PAC2	WBGene00019503	K07H8.1	PAC10	WBGene00006889	R151.9	Tong
PAC2	WBGene00019503	K07H8.1	YKE2	WBGene00009004	Y69A2A_2326.a	Tong
POL32	WBGene00011016	R04F11.3	ARC18	WBGene00000203	T06G6.9	Tong
POL32	WBGene00011016	R04F11.3	ARP6	WBGene00007434	F21C3.5	Pan
POL32	WBGene00011016	R04F11.3	CKB2	WBGene00002196	Y37D8A.1	Pan
POL32	WBGene00011016	R04F11.3	FKH2	WBGene00003976	C08B11.6	Pan
POL32	WBGene00011016	R04F11.3	HTZ1	WBGene00019947	T01G9.6	Pan
POL32	WBGene00011016	R04F11.3	ISC1	WBGene00012105	T28H11.4	Pan
POL32	WBGene00011016	R04F11.3	LSM1	WBGene00003076	R08C7.3	Pan
POL32	WBGene00011016	R04F11.3	MSH2	WBGene00003418	T27F6.6	Pan
POL32	WBGene00011016	R04F11.3	PEP3	WBGene00021058	F40F8.9	Pan
POL32	WBGene00011016	R04F11.3	RAD27	WBGene00000794	H26D21.2	Tong, Pan
POL32	WBGene00011016	R04F11.3	RAD5	WBGene00010061	W06B4.3	Pan
POL32	WBGene00011016	R04F11.3	RAD50	WBGene00004296	Y47G6A_247.i	Tong, Pan
POL32	WBGene00011016	R04F11.3	RAD51	WBGene00004297	F54E12.2	Tong, Pan
POL32	WBGene00011016	R04F11.3	RAD54	WBGene00004298	T04H1.4	Tong, Pan
POL32	WBGene00011016	R04F11.3	RAD6	WBGene00006701	Y43C5A.6	Pan
POL32	WBGene00011016	R04F11.3	RPN10	WBGene00004466	W06D4.6	Pan
POL32	WBGene00011016	R04F11.3	RVS161	WBGene00010272	C35B1.1	Pan
POL32	WBGene00011016	R04F11.3	RVS167	WBGene00020209	B0205.3	Pan
POL32	WBGene00011016	R04F11.3	STP22	WBGene00015658	F58G6.1	Pan
POL32	WBGene00011016	R04F11.3	VIP1	WBGene00018508	T04C9.1 & ZK328.3	Pan
POL32	WBGene00011016	R04F11.3	VPS34	WBGene00006932	C09G12.9	Pan
POL32	WBGene00011016	R04F11.3	YAF9	WBGene00001585	F46F11.1	Pan
POP2	WBGene00000369	Y56A3A.20	ARP6	WBGene00007434	B0025.1	Pan
POP2	WBGene00000369	Y56A3A.20	ATP1	WBGene00010419*	M04B2.3	Pan
POP2	WBGene00000369	Y56A3A.20	ATP5	WBGene00017856*	C08B11.6	Pan
POP2	WBGene00000369	Y56A3A.20	CTK1	WBGene00007135	H28O16.1	Pan
POP2	WBGene00000369	Y56A3A.20	DID4	WBGene00012903	F27C1.7	Pan
POP2	WBGene00000369	Y56A3A.20	GCS1	WBGene00010500	B0285.1 & B0285.2	Pan
POP2	WBGene00000369	Y56A3A.20	KAR3	WBGene00002216	Y46G5.m	Pan
POP2	WBGene00000369	Y56A3A.20	LSM1	WBGene00003076	K02B12.7	Pan
POP2	WBGene00000369	Y56A3A.20	LSM6	WBGene00003080	T09A5.2	Pan
POP2	WBGene00000369	Y56A3A.20	LSM7	WBGene00003081	F40F8.9	Pan
POP2	WBGene00000369	Y56A3A.20	MSY1	WBGene00006968	Y71G12A_187.b	Pan
POP2	WBGene00000369	Y56A3A.20	NHX1	WBGene00003733	ZK593.7	Pan
POP2	WBGene00000369	Y56A3A.20	PIF1	WBGene00004028	K08F11.4	Pan
POP2	WBGene00000369	Y56A3A.20	PIM1	WBGene00016391	F57C7.2	Pan

POP2	WBGene00000369	Y56A3A.20	RAD50	WBGene00004296	Y18H1A_67.c & Y18H1A_67.d & Y18H1A_67.f	Pan
POP2	WBGene00000369	Y56A3A.20	RAD51	WBGene00004297	C34B2.6	Pan
POP2	WBGene00000369	Y56A3A.20	RAD54	WBGene00004298	T04H1.4	Pan
POP2	WBGene00000369	Y56A3A.20	RAD6	WBGene00006701	Y43C5A.6	Pan
POP2	WBGene00000369	Y56A3A.20	RVS161	WBGene00010272	W06D4.6	Pan
POP2	WBGene00000369	Y56A3A.20	RVS167	WBGene00020209	C35B1.1	Pan
POP2	WBGene00000369	Y56A3A.20	SAC1	WBGene00009264	F58G6.1	Pan
POP2	WBGene00000369	Y56A3A.20	SGS1	WBGene00001865	T04C9.1 & ZK328.3	Pan
POP2	WBGene00000369	Y56A3A.20	SIN3	WBGene00004117	F30A10.6	Pan
POP2	WBGene00000369	Y56A3A.20	SNF5	WBGene00011111	T04A11.6	Pan
POP2	WBGene00000369	Y56A3A.20	SNF8	WBGene00016167	F02E9.4	Pan
POP2	WBGene00000369	Y56A3A.20	STP22	WBGene00015658	R07E5.3	Pan
POP2	WBGene00000369	Y56A3A.20	TFP1	WBGene00013025*	C27F2.5	Pan
POP2	WBGene00000369	Y56A3A.20	VAC14	WBGene00010565	C09G12.9	Pan
POP2	WBGene00000369	Y56A3A.20	VPS20	WBGene00022027	Y49A3A.2	Pan
POP2	WBGene00000369	Y56A3A.20	VPS24	WBGene00020866	K04G2.6	Pan
POP2	WBGene00000369	Y56A3A.20	VPS30	WBGene00000247	Y65B4A_182.b & Y65B4A_182.c	Pan
POP2	WBGene00000369	Y56A3A.20	VPS36	WBGene00008919	F59A6.7 & T27F7.1	Pan
POP2	WBGene00000369	Y56A3A.20	VPS4	WBGene00021334	T19E7.3 & T19E7.4	Pan
POP2	WBGene00000369	Y56A3A.20	VPS45	WBGene00016643	F17C11.8	Pan
POP2	WBGene00000369	Y56A3A.20	YAF9	WBGene00001585	Y34D9A_152.a	Pan
PRT1	WBGene00001225	Y54E2A.11	PRO3	WBGene00010924	C44C1.1 & C44C1.4	Davierwala
RAD27	WBGene00000794	Y47G6A_247.i	ARP6	WBGene00007434	M04B2.3	Pan
RAD27	WBGene00000794	Y47G6A_247.i	CAC2	WBGene00022141	M153.1	Tong, Pan
RAD27	WBGene00000794	Y47G6A_247.i	CKB2	WBGene00002196	C08B11.6	Pan
RAD27	WBGene00000794	Y47G6A_247.i	CSM3	WBGene00017738	Y71G12A_202.d	Tong, Pan
RAD27	WBGene00000794	Y47G6A_247.i	CTF18	WBGene00010676	T01G9.6	Tong, Pan
RAD27	WBGene00000794	Y47G6A_247.i	CTK1	WBGene00007135	F23C8.9	Pan
RAD27	WBGene00000794	Y47G6A_247.i	DOA1	WBGene00007333	K08F4.1	Pan
RAD27	WBGene00000794	Y47G6A_247.i	DOC1	WBGene00000144	B0285.1 & B0285.2	Tong
RAD27	WBGene00000794	Y47G6A_247.i	GUF1	WBGene00022862	C05C10.6	Pan
RAD27	WBGene00000794	Y47G6A_247.i	HTZ1	WBGene00019947	F15H10.3	Pan
RAD27	WBGene00000794	Y47G6A_247.i	ISC1	WBGene00012105	ZK1236.1	Pan
RAD27	WBGene00000794	Y47G6A_247.i	LSM1	WBGene00003076	R08C7.3	Pan
RAD27	WBGene00000794	Y47G6A_247.i	LSM6	WBGene00003080	T27F6.6	Pan
RAD27	WBGene00000794	Y47G6A_247.i	LSM7	WBGene00003081	F40F8.9	Pan
RAD27	WBGene00000794	Y47G6A_247.i	MRE11	WBGene00003405	Y71G12A_187.b	Tong, Pan
RAD27	WBGene00000794	Y47G6A_247.i	MUS81	WBGene00016602	ZK593.7	Tong, Pan
RAD27	WBGene00000794	Y47G6A_247.i	NHX1	WBGene00003733	ZC302.1	Pan
RAD27	WBGene00000794	Y47G6A_247.i	PEP3	WBGene00021058	C43E11.2	Pan
RAD27	WBGene00000794	Y47G6A_247.i	PEP5	WBGene00011067	F57C7.2	Pan
RAD27	WBGene00000794	Y47G6A_247.i	PIF1	WBGene00004028	W06B4.3	Pan
RAD27	WBGene00000794	Y47G6A_247.i	POP2	WBGene00000369	R06F6.2	Pan
RAD27	WBGene00000794	Y47G6A_247.i	RAD23	WBGene00013924	Y18H1A_67.c & Y18H1A_67.d & Y18H1A_67.f	Pan
RAD27	WBGene00000794	Y47G6A_247.i	RAD5	WBGene00010061	Y56A3A.20	Pan
RAD27	WBGene00000794	Y47G6A_247.i	RAD50	WBGene00004296	ZK20.3	Tong, Pan
RAD27	WBGene00000794	Y47G6A_247.i	RAD51	WBGene00004297	F54E12.2	Tong, Pan
RAD27	WBGene00000794	Y47G6A_247.i	RAD54	WBGene00004298	T04H1.4	Tong, Pan

RAD27	WBGene00000794	Y47G6A_247.i	RAD6	WBGene00006701	Y43C5A.6	Pan
RAD27	WBGene00000794	Y47G6A_247.i	RPN10	WBGene00004466	W06D4.6	Pan
RAD27	WBGene00000794	Y47G6A_247.i	RTF1	WBGene00009103	C35B1.1	Pan
RAD27	WBGene00000794	Y47G6A_247.i	RVS167	WBGene00020209	B0205.3	Pan
RAD27	WBGene00000794	Y47G6A_247.i	SAC1	WBGene00009264	F25B3.6	Pan
RAD27	WBGene00000794	Y47G6A_247.i	SNF8	WBGene00016167	T04C9.1 & ZK328.3	Pan
RAD27	WBGene00000794	Y47G6A_247.i	SSN8	WBGene00000506	F30A10.6	Pan
RAD27	WBGene00000794	Y47G6A_247.i	STP22	WBGene00015658	C27F2.5	Pan
RAD27	WBGene00000794	Y47G6A_247.i	UBP14	WBGene00020839	H14E04.5	Pan
RAD27	WBGene00000794	Y47G6A_247.i	VPS34	WBGene00006932	C09G12.9	Pan
RAD27	WBGene00000794	Y47G6A_247.i	VPS5	WBGene00004927	T27A3.2	Pan
RAD27	WBGene00000794	Y47G6A_247.i	YAF9	WBGene00001585	B0025.1	Pan
RAD27	WBGene00000794	Y47G6A_247.i	YTA7	WBGene00008682	C05D9.1	Pan
RAD5	WBGene00010061	F54E12.2	BRE1	WBGene00007008	M04B2.3	Pan
RAD5	WBGene00010061	F54E12.2	MUS81	WBGene00016602	F11A10.1	Pan
RAD5	WBGene00010061	F54E12.2	RAD51	WBGene00004297	R05D3.4	Pan
RAD5	WBGene00010061	F54E12.2	RAD54	WBGene00004298	C43E11.2	Pan
RAD5	WBGene00010061	F54E12.2	SGS1	WBGene00001865	Y43C5A.6	Pan
RAD50	WBGene00004296	T04H1.4	BRE1	WBGene00007008	W06D4.6	Tong, Pan
RAD50	WBGene00004296	T04H1.4	CDC45	WBGene00009372	T04A11.6	Davierwala
RAD50	WBGene00004296	T04H1.4	CDC9	WBGene00002985	R05D3.4	Davierwala
RAD50	WBGene00004296	T04H1.4	CTK1	WBGene00007135	F34D10.2 & F34D10.3	Pan
RAD50	WBGene00004296	T04H1.4	KEM1	WBGene00012730	C29A12.3	Pan
RAD50	WBGene00004296	T04H1.4	LSM1	WBGene00003076	B0285.1 & B0285.2	Pan
RAD50	WBGene00004296	T04H1.4	LSM6	WBGene00003080	Y39G8C.1 & Y39G8C.b	Pan
RAD50	WBGene00004296	T04H1.4	LSM7	WBGene00003081	F40F8.9	Pan
RAD50	WBGene00004296	T04H1.4	MUS81	WBGene00016602	Y71G12A_187.b	Pan
RAD50	WBGene00004296	T04H1.4	NPR2	WBGene00018635	ZK593.7	Tong
RAD50	WBGene00004296	T04H1.4	RAD5	WBGene00010061	C43E11.2	Tong, Pan
RAD50	WBGene00004296	T04H1.4	RAD6	WBGene00006701	F49E8.1	Pan
RAD50	WBGene00004296	T04H1.4	REV1	WBGene00014066	F54E12.2	Pan
RAD50	WBGene00004296	T04H1.4	RFC2	WBGene00004340	C35B1.1	Davierwala
RAD50	WBGene00004296	T04H1.4	RPN10	WBGene00004466	ZK675.2	Pan
RAD50	WBGene00004296	T04H1.4	STP22	WBGene00015658	F31E3.3	Pan
RAD50	WBGene00004296	T04H1.4	SWD1	WBGene00017683	B0205.3	Tong
RAD50	WBGene00004296	T04H1.4	VPS15	WBGene00014151	C09G12.9	Pan
RAD50	WBGene00004296	T04H1.4	VPS34	WBGene00006932	F21H12.1	Pan
RAD50	WBGene00004296	T04H1.4	YDR140W	WBGene00016341	ZK930.1 & ZK930.7	Pan
RAD50	WBGene00004296	T04H1.4	YER087W	WBGene00004190	B0025.1	Pan
RAD51	WBGene00004297	Y43C5A.6	CTK1	WBGene00007135	C33C12.9	Pan
RAD51	WBGene00004297	Y43C5A.6	DIA4	WBGene00005662	T27F6.5	Pan
RAD51	WBGene00004297	Y43C5A.6	LSM1	WBGene00003076	B0285.1 & B0285.2	Pan
RAD51	WBGene00004297	Y43C5A.6	LSM6	WBGene00003080	W03B1.4	Pan
RAD51	WBGene00004297	Y43C5A.6	LSM7	WBGene00003081	F40F8.9	Pan
RAD51	WBGene00004297	Y43C5A.6	RAD6	WBGene00006701	Y71G12A_187.b	Pan
RAD51	WBGene00004297	Y43C5A.6	REV1	WBGene00014066	ZK593.7	Pan
RAD51	WBGene00004297	Y43C5A.6	RPN10	WBGene00004466	C35B1.1	Pan
RAD51	WBGene00004297	Y43C5A.6	SGS1	WBGene00001865	ZK675.2	Pan

RAD51	WBGene00004297	Y43C5A.6	STP22	WBGene00015658	B0205.3	Pan
RAD51	WBGene00004297	Y43C5A.6	VPS15	WBGene00014151	T04A11.6	Pan
RAD51	WBGene00004297	Y43C5A.6	VPS34	WBGene00006932	C09G12.9	Pan
RAD51	WBGene00004297	Y43C5A.6	YER087W	WBGene00004190	ZK930.1 & ZK930.7	Pan
RAD54	WBGene00004298	W06D4.6	CTK1	WBGene00007135	B0025.1	Pan
RAD54	WBGene00004298	W06D4.6	KEM1	WBGene00012730	T27F6.5	Pan
RAD54	WBGene00004298	W06D4.6	LSM1	WBGene00003076	B0285.1 & B0285.2	Pan
RAD54	WBGene00004298	W06D4.6	LSM6	WBGene00003080	Y39G8C.1 & Y39G8C.b	Pan
RAD54	WBGene00004298	W06D4.6	LSM7	WBGene00003081	F40F8.9	Pan
RAD54	WBGene00004298	W06D4.6	RAD6	WBGene00006701	Y71G12A_187.b	Pan
RAD54	WBGene00004298	W06D4.6	RPN10	WBGene00004466	ZK593.7	Pan
RAD54	WBGene00004298	W06D4.6	SGS1	WBGene00001865	C35B1.1	Pan
RAD54	WBGene00004298	W06D4.6	STP22	WBGene00015658	B0205.3	Pan
RAD54	WBGene00004298	W06D4.6	VPS34	WBGene00006932	T04A11.6	Pan
RAD54	WBGene00004298	W06D4.6	YDR140W	WBGene00016341	C09G12.9	Pan
RAD54	WBGene00004298	W06D4.6	YER087W	WBGene00004190	B0025.1	Pan
RAD6	WBGene00006701	C35B1.1	ARC18	WBGene00000203	C33C12.9	Pan
RAD6	WBGene00006701	C35B1.1	ARP6	WBGene00007434	T27F6.5	Pan
RAD6	WBGene00006701	C35B1.1	BUB2	WBGene00016352	Y37D8A.1	Pan
RAD6	WBGene00006701	C35B1.1	CEM1	WBGene00008667	C08B11.6	Pan
RAD6	WBGene00006701	C35B1.1	COQ6	WBGene00000766	C33F10.2	Pan
RAD6	WBGene00006701	C35B1.1	COX6	WBGene00012553	F10G8.9	Pan
RAD6	WBGene00006701	C35B1.1	CTK1	WBGene00007135	K07B1.2	Pan
RAD6	WBGene00006701	C35B1.1	DIA4	WBGene00005662	Y37D8A.14	Pan
RAD6	WBGene00006701	C35B1.1	FAB1	WBGene00004089	B0285.1 & B0285.2	Pan
RAD6	WBGene00006701	C35B1.1	FKH2	WBGene00003976	W03B1.4	Pan
RAD6	WBGene00006701	C35B1.1	GUA1	WBGene00010912	C05E7.5 & VF11C1L.1	Pan
RAD6	WBGene00006701	C35B1.1	HTZ1	WBGene00019947	T28H11.4	Pan
RAD6	WBGene00006701	C35B1.1	ISC1	WBGene00012105	M106.4	Pan
RAD6	WBGene00006701	C35B1.1	KAR3	WBGene00002216	R08C7.3	Pan
RAD6	WBGene00006701	C35B1.1	KEM1	WBGene00012730	T27F6.6	Pan
RAD6	WBGene00006701	C35B1.1	MRPL9	WBGene00016142	T09A5.2	Pan
RAD6	WBGene00006701	C35B1.1	PEP3	WBGene00021058	Y39G8C.1 & Y39G8C.b	Pan
RAD6	WBGene00006701	C35B1.1	PPA1	WBGene00011347*	C26E6.6	Pan
RAD6	WBGene00006701	C35B1.1	RAD14	WBGene00006963	W06B4.3	Pan
RAD6	WBGene00006701	C35B1.1	RAD23	WBGene00013924	T01H3.1	Pan
RAD6	WBGene00006701	C35B1.1	RVS161	WBGene00010272	K07G5.2	Pan
RAD6	WBGene00006701	C35B1.1	RVS167	WBGene00020209	ZK20.3	Pan
RAD6	WBGene00006701	C35B1.1	SAC1	WBGene00009264	F58G6.1	Pan
RAD6	WBGene00006701	C35B1.1	SIN3	WBGene00004117	T04C9.1 & ZK328.3	Pan
RAD6	WBGene00006701	C35B1.1	SMP2	WBGene00010425	F30A10.6	Pan
RAD6	WBGene00006701	C35B1.1	SPF1	WBGene00007514	F02E9.4	Pan
RAD6	WBGene00006701	C35B1.1	UBP14	WBGene00020839	H37A05.1	Pan
RAD6	WBGene00006701	C35B1.1	VMA5	WBGene00006920*	C10C6.6	Pan
RAD6	WBGene00006701	C35B1.1	VMA7	WBGene00006918*	T27A3.2	Pan
RAD6	WBGene00006701	C35B1.1	VMA8	WBGene00010130	Y38F2A_5743.f	Pan
RAD6	WBGene00006701	C35B1.1	VPS16	WBGene00006516	ZK970.4	Pan
RAD6	WBGene00006701	C35B1.1	VPS25	WBGene00012193	F55H2.2	Pan

RAD6	WBGene00006701	C35B1.1	VPS36	WBGene00008919	C05D11.2	Pan
RAD6	WBGene00006701	C35B1.1	VRP1	WBGene00020094	W02A11.2	Pan
RAD6	WBGene00006701	C35B1.1	YAF9	WBGene00001585	F17C11.8	Pan
RAD6	WBGene00006701	C35B1.1	YER087W	WBGene00004190	R144.4 & R144.8	Pan
RAD6	WBGene00006701	C35B1.1	YGR257C	WBGene00007622	M04B2.3	Pan
RAD6	WBGene00006701	C35B1.1	ZUO1	WBGene00001029	T27F6.5	Pan
RFC5	WBGene00004339	C39E9.13	ALG2	WBGene00017282	C16C10.1	Davierwala
RFC5	WBGene00004339	C39E9.13	CDC27	WBGene00003132	F38A5.13	Davierwala
RFC5	WBGene00004339	C39E9.13	CDC45	WBGene00009372	F09E5.2	Davierwala
RFC5	WBGene00004339	C39E9.13	CDC9	WBGene00002985	Y110A7A.d	Davierwala
RFC5	WBGene00004339	C39E9.13	DPS1	WBGene00001094*	F34D10.2 & F34D10.3	Davierwala
RFC5	WBGene00004339	C39E9.13	MOT1	WBGene00000274	C29A12.3	Davierwala
RFC5	WBGene00004339	C39E9.13	NOP14	WBGene00021660	B0464.1	Davierwala
RFC5	WBGene00004339	C39E9.13	POL1	WBGene00012936	F15D4.1	Davierwala
RFC5	WBGene00004339	C39E9.13	RFC2	WBGene00004340	Y48G1A_54.d	Davierwala
RPN10	WBGene00004466	B0205.3	CBC2	WBGene00009141	Y47D3A.c & Y47D3A.d	Pan
RPN10	WBGene00004466	B0205.3	NHX1	WBGene00003733	F31E3.3	Pan
RPN10	WBGene00004466	B0205.3	PEP3	WBGene00021058	F26A3.2	Pan
RPN10	WBGene00004466	B0205.3	PEP5	WBGene00011067	F57C7.2	Pan
RPN10	WBGene00004466	B0205.3	RAD23	WBGene00013924	W06B4.3	Pan
RPN10	WBGene00004466	B0205.3	RAD6	WBGene00006701	R06F6.2	Pan
RPN10	WBGene00004466	B0205.3	RVS167	WBGene00020209	ZK20.3	Pan
RPN10	WBGene00004466	B0205.3	SIN3	WBGene00004117	C35B1.1	Pan
RPN10	WBGene00004466	B0205.3	SNF8	WBGene00016167	T04C9.1 & ZK328.3	Pan
RPN10	WBGene00004466	B0205.3	STP22	WBGene00015658	F02E9.4	Pan
RPN10	WBGene00004466	B0205.3	SWD1	WBGene00017683	C27F2.5	Pan
RPN10	WBGene00004466	B0205.3	VPS20	WBGene00022027	C09G12.9	Pan
RPN10	WBGene00004466	B0205.3	VPS25	WBGene00012193	F21H12.1	Pan
RPN10	WBGene00004466	B0205.3	VPS36	WBGene00008919	Y65B4A_182.b & Y65B4A_182.c	Pan
RPN10	WBGene00004466	B0205.3	VPS45	WBGene00016643	W02A11.2	Pan
RPN10	WBGene00004466	B0205.3	YDR117C	WBGene00016113	F17C11.8	Pan
RVS161	WBGene00010272	F58G6.1	CAP1	WBGene00000292	C44C1.1 & C44C1.4	Tong
RVS161	WBGene00010272	F58G6.1	CAP2	WBGene00000293	C25H3.4	Tong
RVS161	WBGene00010272	F58G6.1	DOA1	WBGene00007333	D2024.6	Tong
RVS161	WBGene00010272	F58G6.1	GIM3	WBGene00007107	M106.5	Tong
RVS161	WBGene00010272	F58G6.1	GIM4	WBGene00019220	C05C10.6	Tong
RVS161	WBGene00010272	F58G6.1	GIM5	WBGene00020112	B0035.4	Tong
RVS161	WBGene00010272	F58G6.1	PAC10	WBGene00006889	H20J04.d	Tong
RVS161	WBGene00010272	F58G6.1	SEC22	WBGene00018853	R151.9	Tong
RVS161	WBGene00010272	F58G6.1	SIN3	WBGene00004117	T06G6.9	Tong
RVS161	WBGene00010272	F58G6.1	SPF1	WBGene00007514	F55A4.1	Tong
RVS161	WBGene00010272	F58G6.1	YKE2	WBGene00009004	F02E9.4	Tong
RVS167	WBGene00020209	T04C9.1 & ZK328.3	CAP1	WBGene00000292	C10C6.6	Tong
RVS167	WBGene00020209	T04C9.1 & ZK328.3	CAP2	WBGene00000293	F21C3.5	Tong
RVS167	WBGene00020209	T04C9.1 & ZK328.3	CHS5	WBGene00022615	D2024.6	Tong
RVS167	WBGene00020209	T04C9.1 & ZK328.3	DOA1	WBGene00007333	M106.5	Tong
RVS167	WBGene00020209	T04C9.1 & ZK328.3	GIM3	WBGene00007107	ZC449.5	Tong
RVS167	WBGene00020209	T04C9.1 & ZK328.3	GIM4	WBGene00019220	C05C10.6	Tong

RVS167	WBGene00020209	T04C9.1 & ZK328.3	GIM5	WBGene00020112	B0035.4	Tong
RVS167	WBGene00020209	T04C9.1 & ZK328.3	PAC10	WBGene00006889	H20J04.d	Tong
RVS167	WBGene00020209	T04C9.1 & ZK328.3	SEC22	WBGene00018853	R151.9	Tong
RVS167	WBGene00020209	T04C9.1 & ZK328.3	SIN3	WBGene00004117	T06G6.9	Tong
RVS167	WBGene00020209	T04C9.1 & ZK328.3	SPF1	WBGene00007514	F55A4.1	Tong
RVS167	WBGene00020209	T04C9.1 & ZK328.3	YKE2	WBGene00009004	F02E9.4	Tong
SEC15	WBGene00016188	C28G1.3	ALG14	WBGene00019725	C10C6.6	Davierwala
SEC15	WBGene00016188	C28G1.3	BET3	WBGene00014222	F21C3.5	Davierwala
SEC15	WBGene00016188	C28G1.3	CDS1	WBGene00016384	M02B7.4	Davierwala
SEC15	WBGene00016188	C28G1.3	ECM16	WBGene00015525	ZK1098.5	Davierwala
SEC15	WBGene00016188	C28G1.3	HRT1	WBGene00004320	C33H5.18	Davierwala
SEC15	WBGene00016188	C28G1.3	MPE1	WBGene00009477	C06E1.10	Davierwala
SEC15	WBGene00016188	C28G1.3	MRT4	WBGene00017347	ZK287.5	Davierwala
SEC15	WBGene00016188	C28G1.3	NOC2	WBGene00007413	F36F2.3	Davierwala
SEC15	WBGene00016188	C28G1.3	NOF15	WBGene00011408	F10E7.5	Davierwala
SEC15	WBGene00016188	C28G1.3	PDS5	WBGene00001352	C07E3.2	Davierwala
SEC15	WBGene00016188	C28G1.3	PFY1	WBGene00003991	T04A8.6	Davierwala
SEC15	WBGene00016188	C28G1.3	PRP16	WBGene00003389	H38K22.1	Davierwala
SEC15	WBGene00016188	C28G1.3	RPC11	WBGene00022309	K03E6.6	Davierwala
SEC15	WBGene00016188	C28G1.3	RPC40	WBGene00019275	K03H1.2	Davierwala
SEC15	WBGene00016188	C28G1.3	RPF1	WBGene00009711	Y77E11A_3443.g	Davierwala
SEC15	WBGene00016188	C28G1.3	YGL047W	WBGene00011193	H43I07.2	Davierwala
SEC15	WBGene00016188	C28G1.3	YNL313C	WBGene00020600	F44G4.1	Davierwala
SEC15	WBGene00016188	C28G1.3	ZPR1	WBGene00020999	R10D12.12	Davierwala
SEC18	WBGene00003818	H15N14.1 & ZK1014.1	HRT1	WBGene00004320	T20B12.1	Davierwala
SEC18	WBGene00003818	H15N14.1 & ZK1014.1	MRT4	WBGene00017347	W03F9.1	Davierwala
SEC18	WBGene00003818	H15N14.1 & ZK1014.1	PFY1	WBGene00003991	ZK287.5	Davierwala
SEC18	WBGene00003818	H15N14.1 & ZK1014.1	RPC40	WBGene00019275	F10E7.5	Davierwala
SEC18	WBGene00003818	H15N14.1 & ZK1014.1	RPF1	WBGene00009711	K03E6.6	Davierwala
SEC18	WBGene00003818	H15N14.1 & ZK1014.1	TFG2	WBGene00012694	H43I07.2	Davierwala
SEC7	WBGene00012386	Y6B3A.1 & Y87G2A.y	CDC45	WBGene00009372	F44G4.1	Davierwala
SEC7	WBGene00012386	Y6B3A.1 & Y87G2A.y	DRS1	WBGene00022148	Y39B6A.f	Davierwala
SEC7	WBGene00012386	Y6B3A.1 & Y87G2A.y	LAS17	WBGene00006565	F34D10.2 & F34D10.3	Davierwala
SEC7	WBGene00012386	Y6B3A.1 & Y87G2A.y	NOC2	WBGene00007413	Y71G12A_201.a & Y71G12A_203.c	Davierwala
SEC7	WBGene00012386	Y6B3A.1 & Y87G2A.y	NOG2	WBGene00003596	Y63D3A.5	Davierwala
SEC7	WBGene00012386	Y6B3A.1 & Y87G2A.y	NOF15	WBGene00011408	C07E3.2	Davierwala
SEC7	WBGene00012386	Y6B3A.1 & Y87G2A.y	NUG1	WBGene00003821	T19A6.2	Davierwala
SEC7	WBGene00012386	Y6B3A.1 & Y87G2A.y	PFY1	WBGene00003991	T04A8.6	Davierwala
SEC7	WBGene00012386	Y6B3A.1 & Y87G2A.y	RFT1	WBGene00022677	K01C8.9	Davierwala
SEC7	WBGene00012386	Y6B3A.1 & Y87G2A.y	RPF1	WBGene00009711	K03E6.6	Davierwala
SEC7	WBGene00012386	Y6B3A.1 & Y87G2A.y	THS1	WBGene00006617	ZK180.3	Davierwala
SEC7	WBGene00012386	Y6B3A.1 & Y87G2A.y	TRM5	WBGene00008263	F44G4.1	Davierwala
SET2	WBGene00021515	Y41D4A_2615.a &	ARP6	WBGene00007434	C47D12.6	Tong
SET2	WBGene00021515	Y41D4A_3457.b	BET3	WBGene00014222	C53A5.2	Davierwala
SET2	WBGene00021515	Y41D4A_2615.a &	BRE1	WBGene00007008	C08B11.6	Tong
SET2	WBGene00021515	Y41D4A_3457.b	GIM3	WBGene00007107	ZK1098.5	Tong
SET2	WBGene00021515	Y41D4A_2615.a &	GIM5	WBGene00020112	R05D3.4	Tong
SET2	WBGene00021515	Y41D4A_3457.b	HTZ1	WBGene00019947	B0035.4	Tong

SET2	WBGene00021515	Y41D4A_2615.a	&	LEO1	WBGene00007110	R151.9	Tong
SET2	WBGene00021515	Y41D4A_3457.b		RTF1	WBGene00009103	R08C7.3	Tong
SET2	WBGene00021515	Y41D4A_2615.a	&	SEC22	WBGene00018853	B0035.11	Tong
SET2	WBGene00021515	Y41D4A_3457.b		SED5	WBGene00006373	F25B3.6	Davierwala
SET2	WBGene00021515	Y41D4A_2615.a	&	SLU7	WBGene00010629	F55A4.1	Davierwala
SET2	WBGene00021515	Y41D4A_3457.b		TFG1	WBGene00015296	F55A11.2	Davierwala
SET2	WBGene00021515	Y41D4A_2615.a	&	VAC14	WBGene00010565	K07C5.6	Tong
SET2	WBGene00021515	Y41D4A_3457.b		YDL033C	WBGene00007114	C01F1.1	Tong
SGS1	WBGene00001865	Y41D4A_2615.a	&	CSM3	WBGene00017738	K04G2.6	Tong, Pan
SGS1	WBGene00001865	Y41D4A_3457.b		CTF18	WBGene00010676	B0035.16	Tong, Pan
SGS1	WBGene00001865	Y41D4A_2615.a	&	LSM1	WBGene00003076	F23C8.9	Pan
SGS1	WBGene00001865	Y41D4A_3457.b		MUS81	WBGene00016602	K08F4.1	Tong, Pan
SGS1	WBGene00001865	Y41D4A_2615.a	&	POL32	WBGene00011016	F40F8.9	Tong, Pan
SGS1	WBGene00001865	Y41D4A_3457.b		RAD27	WBGene00000794	C43E11.2	Tong, Pan
SGS1	WBGene00001865	Y41D4A_2615.a	&	RAD50	WBGene00004296	R04F11.3	Tong, Pan
SGS1	WBGene00001865	Y41D4A_3457.b		SLX1	WBGene00018909	Y47G6A_247.i	Tong, Pan
SGS1	WBGene00001865	Y41D4A_2615.a	&	TOP1	WBGene00006595	T04H1.4	Tong
TOP1	WBGene00006595	Y41D4A_3457.b		MRE11	WBGene00003405	F56A3.2	Tong
TOP1	WBGene00006595	Y41D4A_2615.a	&	RAD50	WBGene00004296	M01E5.5	Tong
YKE2	WBGene00009004	Y41D4A_3457.b		ARP6	WBGene00007434	ZC302.1	Tong
YKE2	WBGene00009004	Y41D4A_2615.a	&	BUB2	WBGene00016352	T04H1.4	Tong
YKE2	WBGene00009004	Y41D4A_3457.b		CAF40	WBGene00016139	C08B11.6	Tong
YKE2	WBGene00009004	T04A11.6		CAP2	WBGene00000293	C33F10.2	Tong
YKE2	WBGene00009004	T04A11.6		CBP3	WBGene00016442	C26E6.3	Tong
YKE2	WBGene00009004	T04A11.6		CTF18	WBGene00010676	M106.5	Tong, Pan
YKE2	WBGene00009004	T04A11.6		FAB1	WBGene00004089	C35D10.5	Tong
YKE2	WBGene00009004	T04A11.6		HAP2	WBGene00013178	K08F4.1	Tong
YKE2	WBGene00009004	T04A11.6		HTZ1	WBGene00019947	C05E7.5 & VF11C1L.1	Tong
YKE2	WBGene00009004	T04A11.6		ISC1	WBGene00012105	Y53H1A.d	Tong
YKE2	WBGene00009004	T04A11.6		KEM1	WBGene00012730	R08C7.3	Tong
YKE2	WBGene00009004	T04A11.6		MMS2	WBGene00006730	T27F6.6	Tong
YKE2	WBGene00009004	M01E5.5		NCL1	WBGene00021686	Y39G8C.1 & Y39G8C.b	Tong
YKE2	WBGene00009004	M01E5.5		PAN3	WBGene00014015	F39B2.2	Tong
YKE2	WBGene00009004	F21C3.5		PCH2	WBGene00008641	Y48G8A_2614.a	Tong
YKE2	WBGene00009004	F21C3.5		PET8	WBGene00008364	ZK632.7	Tong
YKE2	WBGene00009004	F21C3.5		PLP1	WBGene00015482	F10B5.5	Tong
YKE2	WBGene00009004	F21C3.5		SPF1	WBGene00007514	D1046.3	Tong
YKE2	WBGene00009004	F21C3.5		STE24	WBGene00001405	C05D11.3	Tong
YKE2	WBGene00009004	F21C3.5		UBA4	WBGene00018357	C10C6.6	Tong
YKE2	WBGene00009004	F21C3.5		UGA1	WBGene00001794	C04F12.10	Tong
YKE2	WBGene00009004	F21C3.5		VAC14	WBGene00010565	F42G8.6	Tong
YKE2	WBGene00009004	F21C3.5		VPS29	WBGene00014234	K04D7.3	Tong
YKE2	WBGene00009004	F21C3.5		VRP1	WBGene00020094	K04G2.6	Tong
YKE2	WBGene00009004	F21C3.5		YDL033C	WBGene00007114	ZK1128.8	Tong
YKE2	WBGene00009004	F21C3.5		YTA7	WBGene00008682	R144.4 & R144.8	Tong
		F21C3.5				B0035.16	
		F21C3.5				F11A10.1	

		F21C3.5				
		F21C3.5				
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		F21C3.5				

Appendix Table 5.1. *S. cerevisiae* synthetic lethal interactions and their pairwise *C. elegans* orthologues

For each *S. cerevisiae* synthetic lethal gene pair ('Gene1', 'Gene 2') with both single orthologues in *C. elegans*, *S. cerevisiae* standard names ('SC Name'), their orthologous *C. elegans* WormBase gene names ('CE Name') & Ahringer library RNA interference (RNAi) clone gene pairs names ('CE RNAi clone') together with references for yeast synthetic lethal screens are shown. * designates genes that resulted in first-generation larval growth arrest after RNAi & were excluded from the study for genetic interactions. Tong, Davierwala, and Pan denote yeast datasets from Tong *et al.*, 2003, Davierwala *et al.*, 2005, and Pan *et al.*, 2006, respectively.

Appendix Table 5.2. *C. elegans* orthologues of *S. cerevisiae* synthetic lethal interactions with homozygous viable loss-of-function alleles

Gene 1 (homozygous viable loss-of-function allele)				Gene 2 (RNAi)			References
SC Name	CE Name	CE RNAi clone	CE Strain	SC Name	CE Name	CE RNAi clone	
ARC40	WBGene00000201	Y79H2A.6	tm1681	ARC18	WBGene00000203	Y37D8A.1	Tong
ARC40	WBGene00000201	Y79H2A.6	tm1681	CHS5	WBGene00022615	ZC449.5	Tong
ARC40	WBGene00000201	Y79H2A.6	tm1681	GIM3	WBGene00007107	B0035.4	Tong
ARC40	WBGene00000201	Y79H2A.6	tm1681	GIM4	WBGene00019220	H20J04.d	Tong
ARC40	WBGene00000201	Y79H2A.6	tm1681	GLO3	WBGene00017217	F07F6.4	Tong
ARC40	WBGene00000201	Y79H2A.6	tm1681	SEC22	WBGene00018853	F55A4.1	Tong
ARC40	WBGene00000201	Y79H2A.6	tm1681	SPF1	WBGene00007514	C10C6.6	Tong
ARC40	WBGene00000201	Y79H2A.6	tm1681	STE24	WBGene00001405	C04F12.10	Tong
ARC40	WBGene00000201	Y79H2A.6	tm1681	VRP1	WBGene00020094	R144.4 & R144.8	Tong
ARC40	WBGene00000201	Y79H2A.6	tm1681	YKE2	WBGene00009004	F21C3.5	Tong
CAF40	WBGene00016139	C26E6.3	RB1477	GIM5	WBGene00020112	R151.9	Tong
CAF40	WBGene00016139	C26E6.3	RB1477	PAC10	WBGene00006889	T06G6.9	Tong
CAF40	WBGene00016139	C26E6.3	RB1477	YKE2	WBGene00009004	F21C3.5	Tong
CDC16	WBGene00001281	F10B5.6	DS88	NIP7	WBGene00016607	C43E11.9	Davierwal
CDC16	WBGene00001281	F10B5.6	GG48	NIP7	WBGene00016607	C43E11.9	a
CDC16	WBGene00001281	F10B5.6	HY621	NIP7	WBGene00016607	C43E11.9	Davierwal
CDC16	WBGene00001281	F10B5.6	TJ1047	NIP7	WBGene00016607	C43E11.9	a
CDC16	WBGene00001281	F10B5.6	TJ1049	NIP7	WBGene00016607	C43E11.9	Davierwal
CDC16	WBGene00001281	F10B5.6	TJ1061	NIP7	WBGene00016607	C43E11.9	a
CDC27	WBGene00003132	Y110A7A.d	DS77	RFC5	WBGene00004339	C39E9.13	Davierwal
CDC27	WBGene00003132	Y110A7A.d	DS80	RFC5	WBGene00004339	C39E9.13	a
CDC27	WBGene00003132	Y110A7A.d	HY604	RFC5	WBGene00004339	C39E9.13	Davierwal
CDC42	WBGene00000390	R07G3.1	RB942	CAP1	WBGene00000292	D2024.6	a
CDC42	WBGene00000390	R07G3.1	RB942	CAP2	WBGene00000293	M106.5	Davierwal
CDC42	WBGene00000390	R07G3.1	RB942	ELP3	WBGene00014123	ZK863.3	a
CDC42	WBGene00000390	R07G3.1	RB942	FAD1	WBGene00011271	R53.1	Davierwal
CDC42	WBGene00000390	R07G3.1	RB942	HRT1	WBGene00004320	ZK287.5	a
CDC42	WBGene00000390	R07G3.1	RB942	RPC40	WBGene00019275	H43I07.2	Davierwal
CDC42	WBGene00000390	R07G3.1	RB942	UBA4	WBGene00018357	F42G8.6	a
CDC42	WBGene00000390	R07G3.1	RB942	YGL211W	WBGene00017928	F29C4.6	Davierwal
DYN1	WBGene00000962	T21E12.4	EU828	GIM3	WBGene00007107	B0035.4	a
DYN1	WBGene00000962	T21E12.4	EU828	GIM4	WBGene00019220	H20J04.d	Tong
DYN1	WBGene00000962	T21E12.4	EU828	GIM5	WBGene00020112	R151.9	Tong
DYN1	WBGene00000962	T21E12.4	EU828	HCM1	WBGene00001442	C25A1.2	Tong
DYN1	WBGene00000962	T21E12.4	EU828	KAR3	WBGene00002216	T09A5.2	Davierwal
DYN1	WBGene00000962	T21E12.4	EU828	PAC10	WBGene00006889	T06G6.9	a
DYN1	WBGene00000962	T21E12.4	EU828	YKE2	WBGene00009004	F21C3.5	Davierwal
DYN2	WBGene00001130	C02C6.1	CX51	GIM3	WBGene00007107	B0035.4	a
DYN2	WBGene00001130	C02C6.1	CX51	GIM4	WBGene00019220	H20J04.d	Davierwal
DYN2	WBGene00001130	C02C6.1	CX51	GIM5	WBGene00020112	R151.9	a
DYN2	WBGene00001130	C02C6.1	CX51	PAC10	WBGene00006889	T06G6.9	Tong

DYN2	WBGene00001130	C02C6.1	CX51	YKE2	WBGene00009004	F21C3.5	Tong
EMP24	WBGene00004766	W02D7.7	GS107	CHS5	WBGene00022615	ZC449.5	Tong
EMP24	WBGene00004766	W02D7.7	GS107	CWH41	WBGene00008775	F13H10.4	Tong
FKH2	WBGene00003976	T28H11.4	UL768	POL32	WBGene00011016	R04F11.3	Tong
FKH2	WBGene00003976	T28H11.4	UL768	RAD6	WBGene00006701	C35B1.1	Tong
GIM3	WBGene00007107	B0035.4	VC1032	ARC40	WBGene00000201	Y79H2A.6	Tong
GIM3	WBGene00007107	B0035.4	VC1032	ARP2	WBGene00000200	K07C5.1	Tong
GIM3	WBGene00007107	B0035.4	VC1032	ARP6	WBGene00007434	C08B11.6	Tong
GIM3	WBGene00007107	B0035.4	VC1032	BUB2	WBGene00016352	C33F10.2	Tong
GIM3	WBGene00007107	B0035.4	VC1032	CHL1	WBGene00010839	M03C11.2	Tong
GIM3	WBGene00007107	B0035.4	VC1032	CSM3	WBGene00017738	F23C8.9	Tong
GIM3	WBGene00007107	B0035.4	VC1032	CTF18	WBGene00010676	K08F4.1	Tong
GIM3	WBGene00007107	B0035.4	VC1032	DYN1	WBGene00000962	T21E12.4	Tong
GIM3	WBGene00007107	B0035.4	VC1032	DYN2	WBGene00001130	C02C6.1	Tong
GIM3	WBGene00007107	B0035.4	VC1032	FAB1	WBGene00004089	C05E7.5 & VF11C1L.1	Tong
GIM3	WBGene00007107	B0035.4	VC1032	HTZ1	WBGene00019947	R08C7.3	Pan
GIM3	WBGene00007107	B0035.4	VC1032	KAR3	WBGene00002216	T09A5.2	Pan
GIM3	WBGene00007107	B0035.4	VC1032	MAD2	WBGene00003161	Y69A2A_2326.a	Tong
GIM3	WBGene00007107	B0035.4	VC1032	NAT1	WBGene00021754	Y50D7_162.b & Y50D7_164.a	Tong
GIM3	WBGene00007107	B0035.4	VC1032	NCL1	WBGene00021686	Y48G8A_2614.a	Tong
GIM3	WBGene00007107	B0035.4	VC1032	PAC1	WBGene00003047	T03F6.5	Tong
GIM3	WBGene00007107	B0035.4	VC1032	PAC2	WBGene00019503	K07H8.1	Tong
GIM3	WBGene00007107	B0035.4	VC1032	PAN3	WBGene00014015	ZK632.7	Tong
GIM3	WBGene00007107	B0035.4	VC1032	PER1	WBGene00019806	R01B10.4	Tong, Pan
GIM3	WBGene00007107	B0035.4	VC1032	PLP1	WBGene00015482	C05D11.3	Tong
GIM3	WBGene00007107	B0035.4	VC1032	RVS161	WBGene00010272	F58G6.1	Tong
GIM3	WBGene00007107	B0035.4	VC1032	RVS167	WBGene00020209	T04C9.1 & ZK328.3	Tong
GIM3	WBGene00007107	B0035.4	VC1032	SET2	WBGene00021515	Y41D4A_2615.a &	Tong
GIM3	WBGene00007107	B0035.4	VC1032	STE24	WBGene00001405	Y41D4A_3457.b	Tong
GIM3	WBGene00007107	B0035.4	VC1032	UBA4	WBGene00018357	C04F12.10	Tong
GIM3	WBGene00007107	B0035.4	VC1032	VAC14	WBGene00010565	F42G8.6	Pan
GIM3	WBGene00007107	B0035.4	VC1032	VPS29	WBGene00014234	K04G2.6	Tong
GIM3	WBGene00007107	B0035.4	VC1032	VRP1	WBGene00020094	ZK1128.8	Tong
GIM3	WBGene00007107	B0035.4	VC1032	YBR108W	WBGene00004110	R144.4 & R144.8	Tong
GIM3	WBGene00007107	B0035.4	VC1032	YGR054W	WBGene00008480	C37A2.2	Tong
GIM3	WBGene00007107	B0035.4	VC1032	YTA7	WBGene00008682	E04D5.1	Tong
HCM1	WBGene00001442	C25A1.2	RB884	ARP6	WBGene00007434	F11A10.1	Tong
HCM1	WBGene00001442	C25A1.2	RB884	DYN1	WBGene00000962	C08B11.6	Tong
HCM1	WBGene00001442	C25A1.2	RB884	MAD2	WBGene00003161	T21E12.4	Tong
HSE1	WBGene00004109	C34G6.7	RB674	CHS5	WBGene00022615	Y69A2A_2326.a	Tong
HSE1	WBGene00004109	C34G6.7	RB674	GIM4	WBGene00019220	ZC449.5	Tong
HSE1	WBGene00004109	C34G6.7	RB674	PAC10	WBGene00006889	H20J04.d	Tong
MUS81	WBGene00016602	C43E11.2	tm1937	CCR4	WBGene00000376	T06G6.9	Tong
MUS81	WBGene00016602	C43E11.2	tm1937	MRE11	WBGene00003405	ZC518.3	Tong
MUS81	WBGene00016602	C43E11.2	tm1937	POL32	WBGene00011016	ZC302.1	Tong
MUS81	WBGene00016602	C43E11.2	tm1937	POP2	WBGene00000369	R04F11.3	Tong
MUS81	WBGene00016602	C43E11.2	tm1937	RAD27	WBGene00000794	Y56A3A.20	Tong
MUS81	WBGene00016602	C43E11.2	tm1937	RAD5	WBGene00010061	Y47G6A_247.i	Tong

MUS81	WBGene00016602	C43E11.2	tm1937	RAD50	WBGene00004296	F54E12.2	Tong
MUS81	WBGene00016602	C43E11.2	tm1937	RAD54	WBGene00004298	T04H1.4	Tong
MUS81	WBGene00016602	C43E11.2	tm1937	RAD6	WBGene00006701	W06D4.6	Tong
MUS81	WBGene00016602	C43E11.2	tm1937	SGS1	WBGene00001865	C35B1.1	Tong
NHX1	WBGene00003733	F57C7.2	RB836	CCR4	WBGene00000376	T04A11.6	Tong
NHX1	WBGene00003733	F57C7.2	RB836	POP2	WBGene00000369	ZC518.3	Tong
NHX1	WBGene00003733	F57C7.2	RB836	RAD27	WBGene00000794	Y56A3A.20	Pan
NHX1	WBGene00003733	F57C7.2	RB836	RPN10	WBGene00004466	Y47G6A_247.i	Pan
PCH2	WBGene00008641	F10B5.5	CA388	YKE2	WBGene00009004	B0205.3	Pan
PEP5	WBGene00011067	R06F6.2	RB1457	BRE1	WBGene00007008	F21C3.5	Pan
PEP5	WBGene00011067	R06F6.2	RB1457	CTF18	WBGene00010676	R05D3.4	Tong, Pan
PEP5	WBGene00011067	R06F6.2	RB1457	NAT1	WBGene00021754	K08F4.1	Pan
PEP5	WBGene00011067	R06F6.2	RB1457	RAD27	WBGene00000794	Y50D7_162.b & Y50D7_164.a	Pan
PEP5	WBGene00011067	R06F6.2	RB1457	RPN10	WBGene00004466	Y47G6A_247.i	Pan
POL12	WBGene00001002	R01H10.1	EU548	NIP7	WBGene00016607	B0205.3	Pan
POL12	WBGene00001002	R01H10.1	EU550	NIP7	WBGene00016607	C43E11.9	Tong, Pan
POL12	WBGene00001002	R01H10.1	EU879	NIP7	WBGene00016607	C43E11.9	Pan
POL12	WBGene00001002	R01H10.1	EU880	NIP7	WBGene00016607	C43E11.9	Pan
RAD14	WBGene00006963	K07G5.2	RB864	RAD6	WBGene00006701	C43E11.9	Pan
RAD6	WBGene00006701	C35B1.1	VC18	ARC18	WBGene00000203	C35B1.1	Pan
RAD6	WBGene00006701	C35B1.1	VC18	ARP6	WBGene00007434	Y37D8A.1	Tong
RAD6	WBGene00006701	C35B1.1	VC18	BUB2	WBGene00016352	C08B11.6	Pan
RAD6	WBGene00006701	C35B1.1	VC18	CCR4	WBGene00000376	C33F10.2	Pan
RAD6	WBGene00006701	C35B1.1	VC18	CEM1	WBGene00008667	ZC518.3	Pan
RAD6	WBGene00006701	C35B1.1	VC18	COQ6	WBGene00000766	F10G8.9	Pan
RAD6	WBGene00006701	C35B1.1	VC18	COX6	WBGene00012553	K07B1.2	Pan
RAD6	WBGene00006701	C35B1.1	VC18	CSM3	WBGene00017738	Y37D8A.14	Davierwal
RAD6	WBGene00006701	C35B1.1	VC18	CTF18	WBGene00010676	F23C8.9	a
RAD6	WBGene00006701	C35B1.1	VC18	CTK1	WBGene00007135	K08F4.1	Davierwal
RAD6	WBGene00006701	C35B1.1	VC18	DIA4	WBGene00005662	B0285.1 & B0285.2	a
RAD6	WBGene00006701	C35B1.1	VC18	FAB1	WBGene00004089	W03B1.4	Davierwal
RAD6	WBGene00006701	C35B1.1	VC18	FKH2	WBGene00003976	C05E7.5 & VF11C1L.1	a
RAD6	WBGene00006701	C35B1.1	VC18	GUA1	WBGene00010912	T28H11.4	Davierwal
RAD6	WBGene00006701	C35B1.1	VC18	HTZ1	WBGene00019947	M106.4	a
RAD6	WBGene00006701	C35B1.1	VC18	ISC1	WBGene00012105	R08C7.3	Pan
RAD6	WBGene00006701	C35B1.1	VC18	KAR3	WBGene00002216	T27F6.6	Pan
RAD6	WBGene00006701	C35B1.1	VC18	KEM1	WBGene00012730	T09A5.2	Pan
RAD6	WBGene00006701	C35B1.1	VC18	MRE11	WBGene00003405	Y39G8C.1 & Y39G8C.b	Pan
RAD6	WBGene00006701	C35B1.1	VC18	MRPL9	WBGene00016142	ZC302.1	Pan
RAD6	WBGene00006701	C35B1.1	VC18	MUS81	WBGene00016602	C26E6.6	Pan
RAD6	WBGene00006701	C35B1.1	VC18	PEP3	WBGene00021058	C43E11.2	Pan
RAD6	WBGene00006701	C35B1.1	VC18	POL32	WBGene00011016	W06B4.3	Pan
RAD6	WBGene00006701	C35B1.1	VC18	POP2	WBGene00000369	R04F11.3	Pan
RAD6	WBGene00006701	C35B1.1	VC18	PPA1	WBGene00011347	Y56A3A.20	Pan
RAD6	WBGene00006701	C35B1.1	VC18	RAD14	*	T01H3.1	Pan
RAD6	WBGene00006701	C35B1.1	VC18	RAD23	WBGene00006963	K07G5.2	Pan
RAD6	WBGene00006701	C35B1.1	VC18	RAD27	WBGene00013924	ZK20.3	Pan
RAD6	WBGene00006701	C35B1.1	VC18	RAD50	WBGene00000794	Y47G6A_247.i	Pan

RAD6	WBGene00006701	C35B1.1	VC18	RAD51	WBGene00004296	T04H1.4	Pan
RAD6	WBGene00006701	C35B1.1	VC18	RAD54	WBGene00004297	Y43C5A.6	Pan
RAD6	WBGene00006701	C35B1.1	VC18	RPN10	WBGene00004298	W06D4.6	Pan
RAD6	WBGene00006701	C35B1.1	VC18	RVS161	WBGene00004466	B0205.3	Pan
RAD6	WBGene00006701	C35B1.1	VC18	RVS167	WBGene00010272	F58G6.1	Pan
RAD6	WBGene00006701	C35B1.1	VC18	SAC1	WBGene00020209	T04C9.1 & ZK328.3	Pan
RAD6	WBGene00006701	C35B1.1	VC18	SIN3	WBGene00009264	F30A10.6	Pan
RAD6	WBGene00006701	C35B1.1	VC18	SMP2	WBGene00004117	F02E9.4	Pan
RAD6	WBGene00006701	C35B1.1	VC18	SPF1	WBGene00010425	H37A05.1	Pan
RAD6	WBGene00006701	C35B1.1	VC18	UBP14	WBGene00007514	C10C6.6	Pan
RAD6	WBGene00006701	C35B1.1	VC18	VMA5	WBGene00020839	T27A3.2	Pan
RAD6	WBGene00006701	C35B1.1	VC18	VMA7	WBGene00006920	Y38F2A_5743.f	Pan
RAD6	WBGene00006701	C35B1.1	VC18	VMA8	*	ZK970.4	Pan
RAD6	WBGene00006701	C35B1.1	VC18	VPS16	WBGene00006918	F55H2.2	Pan
RAD6	WBGene00006701	C35B1.1	VC18	VPS25	*	C05D11.2	Pan
RAD6	WBGene00006701	C35B1.1	VC18	VPS36	WBGene00010130	W02A11.2	Pan
RAD6	WBGene00006701	C35B1.1	VC18	VRP1	WBGene00006516	F17C11.8	Pan
RAD6	WBGene00006701	C35B1.1	VC18	YAF9	WBGene00012193	R144.4 & R144.8	Pan
RAD6	WBGene00006701	C35B1.1	VC18	YER087W	WBGene00008919	M04B2.3	Pan
RAD6	WBGene00006701	C35B1.1	VC18	YGR257C	WBGene00020094	T27F6.5	Pan
RAD6	WBGene00006701	C35B1.1	VC18	ZUO1	WBGene00001585	C16C10.1	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	ARP2	WBGene00004190	F38A5.13	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	CAP1	WBGene00007622	K07C5.1	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	CAP2	WBGene00001029	D2024.6	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	CCR4	WBGene00000200	M106.5	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	CHS5	WBGene00000292	ZC518.3	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	DOA1	WBGene00000293	ZC449.5	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	GIM3	WBGene00000376	C05C10.6	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	GIM4	WBGene00022615	B0035.4	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	GIM5	WBGene00007333	H20J04.d	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	NAT1	WBGene00007107	R151.9	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	PAC10	WBGene00019220	Y50D7_162.b & Y50D7_164.a	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	POL32	WBGene00020112	T06G6.9	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	POP2	WBGene00021754	R04F11.3	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	RAD6	WBGene00006889	Y56A3A.20	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	SEC22	WBGene00011016	C35B1.1	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	SIN3	WBGene00000369	F55A4.1	Pan
RVS161	WBGene00010272	F58G6.1	tm1060	SPF1	WBGene00006701	F02E9.4	Tong
RVS161	WBGene00010272	F58G6.1	tm1060	YKE2	WBGene00018853	C10C6.6	Tong
SGS1	WBGene00001865	T04A11.6	VC193	CCR4	WBGene00004117	F21C3.5	Tong
SGS1	WBGene00001865	T04A11.6	VC193	CSM3	WBGene00007514	ZC518.3	Pan
SGS1	WBGene00001865	T04A11.6	VC193	CTF18	WBGene00009004	F23C8.9	Tong
SGS1	WBGene00001865	T04A11.6	VC193	LSM1	WBGene00000376	K08F4.1	Tong
SGS1	WBGene00001865	T04A11.6	VC193	MRE11	WBGene00017738	F40F8.9	Tong
SGS1	WBGene00001865	T04A11.6	VC193	MUS81	WBGene00010676	ZC302.1	Tong
SGS1	WBGene00001865	T04A11.6	VC193	POL32	WBGene00003076	C43E11.2	Tong
SGS1	WBGene00001865	T04A11.6	VC193	POP2	WBGene00003405	R04F11.3	Pan
SGS1	WBGene00001865	T04A11.6	VC193	RAD27	WBGene00016602	Y56A3A.20	Tong

SGS1	WBGene00001865	T04A11.6	VC193	RAD5	WBGene00011016	Y47G6A_247.i	Pan
SGS1	WBGene00001865	T04A11.6	VC193	RAD50	WBGene00000369	F54E12.2	Pan
SGS1	WBGene00001865	T04A11.6	VC193	RAD51	WBGene00000794	T04H1.4	Pan
SGS1	WBGene00001865	T04A11.6	VC193	RAD54	WBGene00010061	Y43C5A.6	Tong
SGS1	WBGene00001865	T04A11.6	VC193	SLX1	WBGene00004296	W06D4.6	Tong
SGS1	WBGene00001865	T04A11.6	VC193	TOP1	WBGene00004297	F56A3.2	Tong
SNF5	WBGene00011111	R07E5.3	RB810	BRE1	WBGene00004298	M01E5.5	Tong
SNF5	WBGene00011111	R07E5.3	RB810	POP2	WBGene00018909	R05D3.4	Pan
UGA1	WBGene00001794	K04D7.3	RB748	GIM5	WBGene00006595	Y56A3A.20	Tong, Pan
UGA1	WBGene00001794	K04D7.3	RB748	YKE2	WBGene00007008	R151.9	Tong, Pan
UGP1	WBGene00010665	K08E3.5	MG278	NOP1	WBGene00000369	F21C3.5	Pan
VMA4	WBGene00006917	C17H12.14	RB769	NAT1	WBGene00020112	T01C3.7	Pan
					WBGene00009004	Y50D7_162.b & Y50D7_164.a	Tong, Pan
					WBGene00001423		Tong, Pan
					WBGene00021754		Pan
							Tong, Pan
							Pan
							Tong, Pan
							Pan
							Pan
							Tong, Pan
							Tong
							Pan
							Tong
							Davierwala
							Pan

Appendix Table 5.2. *C. elegans* orthologues of *S. cerevisiae* synthetic lethal interactions with homozygous viable loss-of-function alleles

C. elegans orthologues of *S. cerevisiae* synthetic lethal interactions that were used for the study of synthetic lethal interactions by RNAi in a mutant carrying a defined genetic lesion ('CE_Strain') are shown. For each gene pair ('Gene 1', 'Gene 2'), *S. cerevisiae* standard names ('SC Name'), *C. elegans* WormBase names ('CE Name') & Ahringer library RNA interference (RNAi) clone gene pairs names ('CE RNAi clone') together with references for yeast synthetic lethal data are listed. * designates genes that resulted in first-generation larval growth arrest after RNAi & were not included in the screen for synthetic lethal interactions. Tong, Davierwala, and Pan denote yeast datasets from Tong *et al.*, 2003, Davierwala *et al.*, 2005, and Pan *et al.*, 2006, respectively.

Appendix Table 5.3. Overlap of literature-curated genetic interactions between *S. cerevisiae*, *D. melanogaster*, and *C. elegans***Overlap *S. cerevisiae* and *D. melanogaster***

SC Name Gene 1	SC Name Gene 2	DM Name Gene 1	DM Name Gene 2
S000002575	S000000364	FBgn0011573	FBgn0004106
S000006323	S000002314	FBgn0000405	FBgn0015625
S000000364	S000006323	FBgn0004106	FBgn0000405

Overlap *C. elegans* and *D. melanogaster*

CE Name Gene 1	CE Name Gene 2	DM Name Gene 1	DM Name Gene 2
WBGene00000090	WBGene00003965	FBgn0015279	FBgn0020386
WBGene00004297	WBGene00004985	FBgn0003479	FBgn0002716
WBGene00002335	WBGene00004214	FBgn0003205	FBgn0000382
WBGene00000453	WBGene00006870	FBgn0025360	FBgn0005558
WBGene00002299	WBGene00002335	FBgn0003731	FBgn0003205
WBGene00001163	WBGene00006868	FBgn0040324	FBgn0025936
WBGene00000554	WBGene00006527	FBgn0015614	FBgn0011826
WBGene00002299	WBGene00004947	FBgn0003731	FBgn0001965
WBGene00002299	WBGene00003043	FBgn0003731	FBgn0036844
WBGene00002694	WBGene00003196	FBgn0026181	FBgn0005536
WBGene00001648	WBGene00001678	FBgn0001122	FBgn0001104
WBGene00000478	WBGene00000857	FBgn0016797	FBgn0004009
WBGene00006957	WBGene00006958	FBgn0024273	FBgn0041781
WBGene00003024	WBGene00006796	FBgn0003339	FBgn0001235
WBGene00000443	WBGene00006796	FBgn0000611	FBgn0001235
WBGene00000406	WBGene00000870	FBgn0016131	FBgn0010315
WBGene00000870	WBGene00001061	FBgn0010315	FBgn0011763
WBGene00006745	WBGene00006746	FBgn0034013	FBgn0015774
WBGene00002694	WBGene00003372	FBgn0026181	FBgn0003514
WBGene00000870	WBGene00000871	FBgn0010315	FBgn0010382
WBGene00002335	WBGene00002363	FBgn0003205	FBgn0004177
WBGene00003196	WBGene00003776	FBgn0005536	FBgn0005634
WBGene00000962	WBGene00003047	FBgn0010349	FBgn0015754

Appendix Table 5.3. Overlap of literature-curated genetic interactions between *S. cerevisiae*, *D. melanogaster*, and *C. elegans*

Pair-wise ('Gene 1, Gene 2') orthologues of *S. cerevisiae*, *D. melanogaster*, and *C. elegans* genes with reported genetic interactions are shown. *S. cerevisiae*, *D. melanogaster*, and *C. elegans* genes are listed as *Saccharomyces* Genome Database identities ('SC Name'), FlyBase gene names ('DM Name'), and WormBase gene names ('CE Name'), respectively.