

// Rules preventing multiple instances of the same gene

Rule r1(**NOT** HMGS_SC_CO **MORETHAN** 1);

Rule r2(**NOT** HMGR_SC_CO **MORETHAN** 1);

Rule r3(**NOT** HMGS_SA **MORETHAN** 1);

Rule r4(**NOT** HMGR_SA **MORETHAN** 1);

Rule r5(**NOT** MK_SC_CO **MORETHAN** 1);

Rule r6(**NOT** PMK_SC_CO_f **MORETHAN** 1);

Rule r7(**NOT** ispA-O **MORETHAN** 1);

Rule r8(**NOT** idi-O **MORETHAN** 1);

Rule r9(**NOT** atoB **MORETHAN** 1);

// Rules preventing multiple instances of gene orthologs

Rule r10(**NOT** HMGS_SC_CO **WITH** HMGS_SA);

Rule r11(**NOT** HMGR_SC_CO **WITH** HMGR_SA);

// Rules forcing use of one gene with another

Rule r12(HMGS_SC_CO **THEN** HMGR_SC_CO);

Rule r13(HMGS_SA **THEN** HMGR_SA);

Rule r14(HMGR_SC_CO **THEN** HMGS_SC_CO);

Rule r15(HMGR_SA **THEN** HMGS_SA);