



| UOK262 | UOK262pFH | delta |                    |
|--------|-----------|-------|--------------------|
|        |           |       | R_EX_o2_e          |
|        |           |       | R_EX_glc_e         |
|        |           |       | R_EX_arg_L_e       |
|        |           |       | R_EX_pyr_e         |
|        |           |       | R_EX_gln_L_e       |
|        |           |       | R_EX_pi_e          |
|        |           |       | R_EX_leu_L_e       |
|        |           |       | R_EX_tyr_L_e       |
|        |           |       | R_EX_Lcystin_e     |
|        |           |       | R_EX_val_L_e       |
|        |           |       | R_EX_lys_L_e       |
|        |           |       | R_EX_ile_L_e       |
|        |           |       | R_EX_phe_L_e       |
|        |           |       | R_EX_thr_L_e       |
|        |           |       | R_EX_his_L_e       |
|        |           |       | R_EX_inost_e       |
|        |           |       | R_EX_met_L_e       |
|        |           |       | R_EX_ser_L_e       |
|        |           |       | R_EX_trp_L_e       |
|        |           |       | R_EX_chol_e        |
|        |           |       | R_EX_asp_L_e       |
|        |           |       | R_EX_prgstn_e      |
|        |           |       | R_EX_mal_L_e       |
|        |           |       | R_EX_tststerone_e  |
|        |           |       | R_EX_asn_L_e       |
|        |           |       | R_EX_succ_e        |
|        |           |       | R_EX_akg_e         |
|        |           |       | R_EX_pro_L_e       |
|        |           |       | R_biomass_reaction |
|        |           |       | R_EX_gly_e         |
|        |           |       | R_EX_fum_e         |
|        |           |       | R_EX_glu_L_e       |
|        |           |       | R_EX_so4_e         |
|        |           |       | R_EX_hco3_e        |
|        |           |       | R_EX_urea_e        |
|        |           |       | R_EX_h2o_e         |
|        |           |       | R_EX_h_e           |
|        |           |       | R_EX_nh4_e         |
|        |           |       | R_EX_lac_L_e       |
|        |           |       | R_EX_co2_e         |