MEIOSIS - YEAST HCO3 Meiotic DNA damage checkpoint Glucose ဏ္ေ Nonfermentable carbon source Pachytene checkpoint Spindle checkpoint Nutrient starvation K12781 K12762 K02544 Gpa2 Ras2 Glucose Ubiquitin mediated Tor2 K02543 K12782 proteolysis Cell cycle G1 arrest Respiration < K02216 Ó cAMP K12783 K12778 K12777 K06646 K06683 Securin K12779 K12763 Separin Arm cohesin K12764 K11582 K09235 K12780 +p K09243 K12766 Pericentromeric cohesin K12774 K12576 FEAR K12575 pathway K12780 K12775 Prospore membrane Early genes Middle genes closure Clb1 Monopolin K12770 pre-RC K12771 K12768 K12772 K12773 O DNA K02309 Homologous chromosome pairing and recombination Homologous chromosome segregation Spindle dissassembly Sister chromatid Spore formation resolution Pre-meiotic DNA replication ORC (Origin Recognition Complex) MCM (Mini-Chromosome Maintenance) complex Mitosis I progression Mitosis II progression S phase progression K02605

 $\mathbf{M1}$

M2

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G1

S

G2