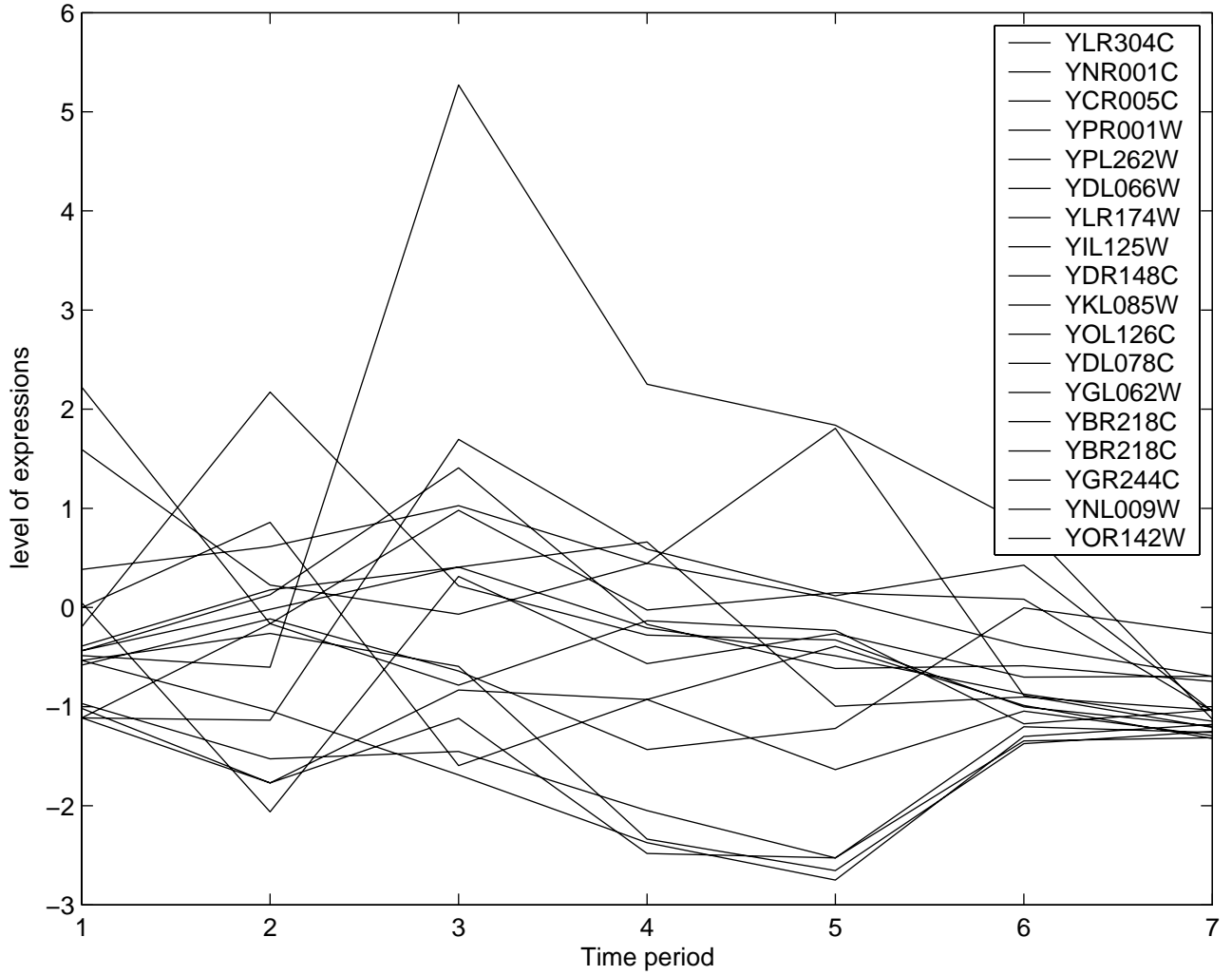
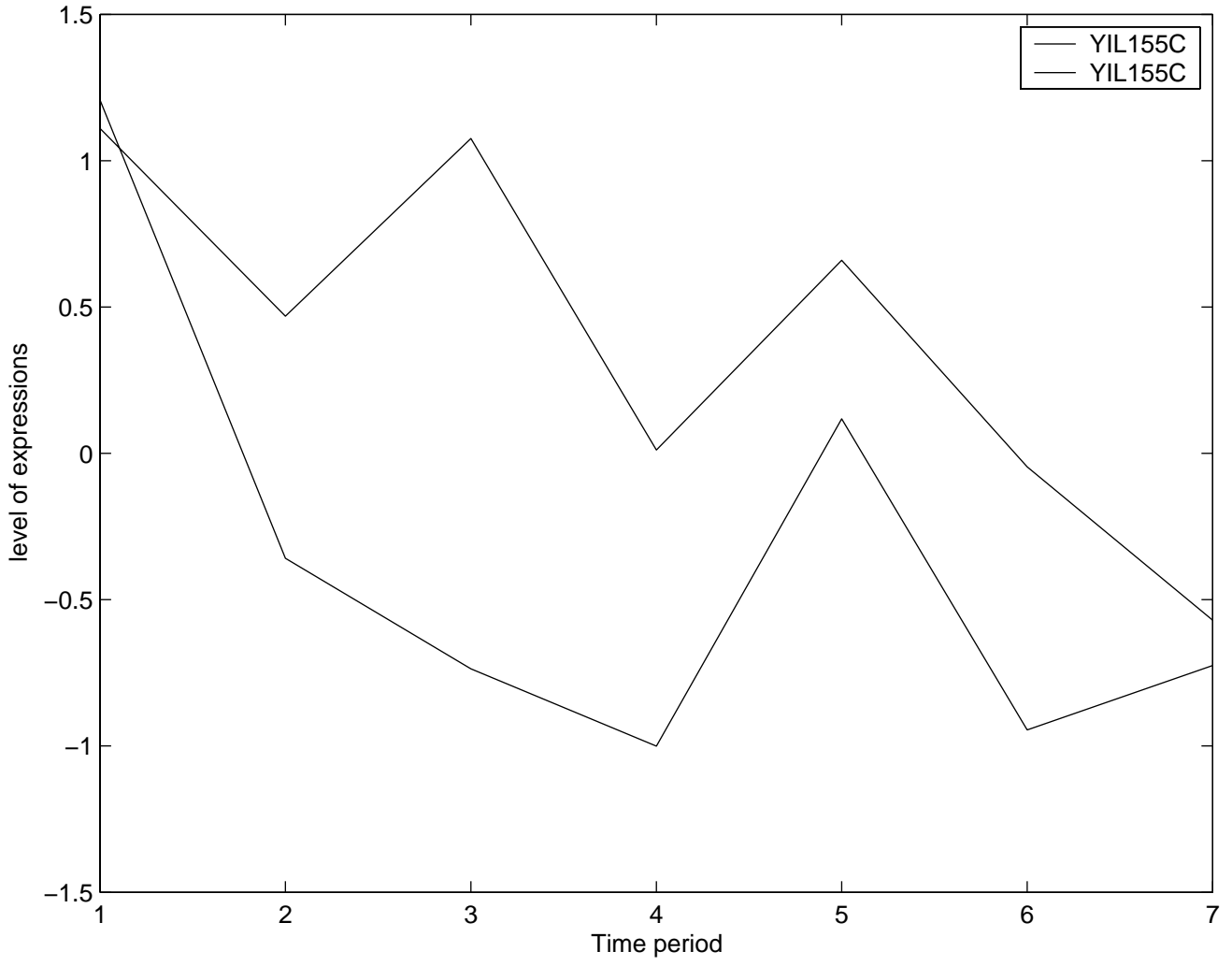


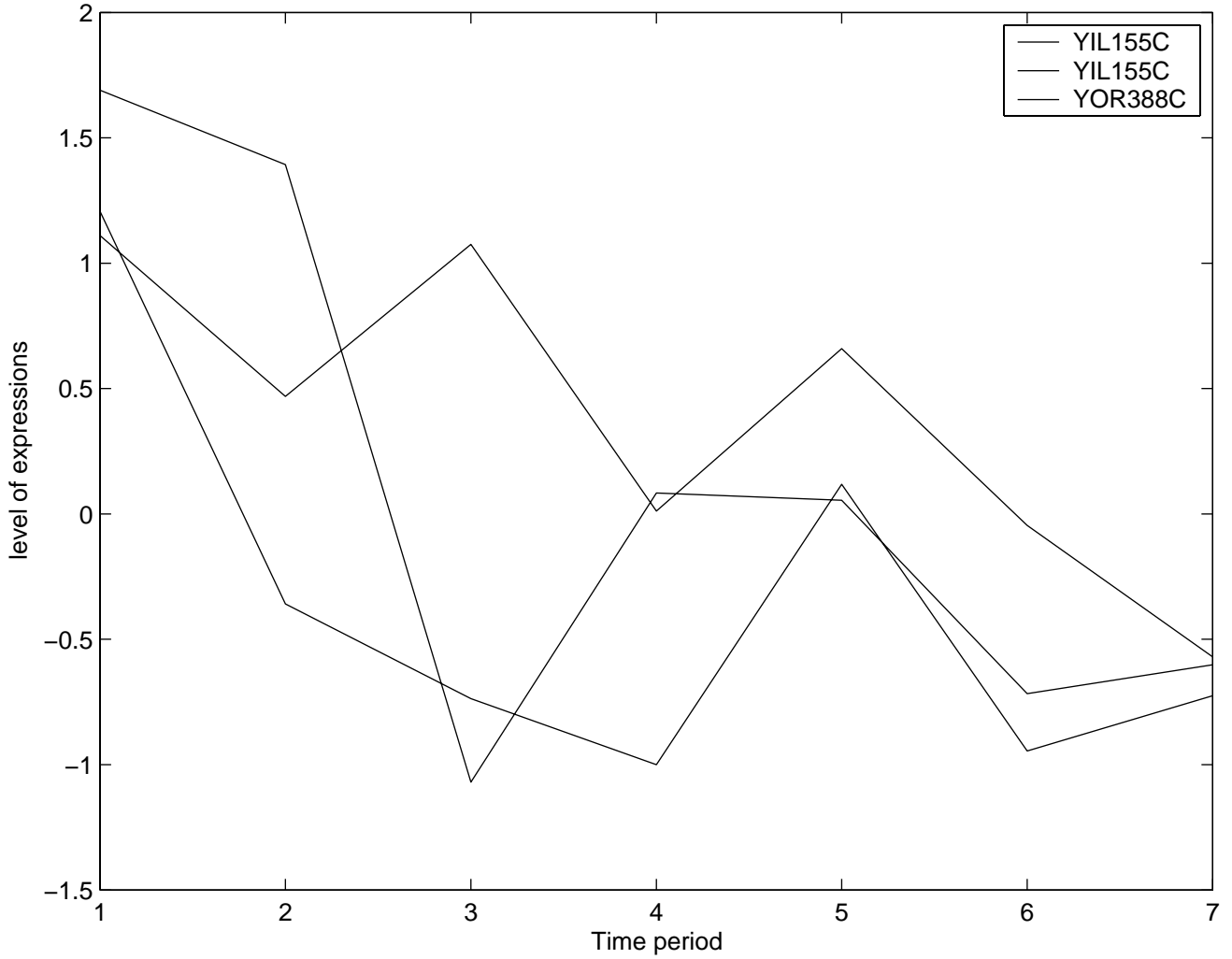
Expression of Genes involved in "TCA cycle, aerobic respiration" pathway



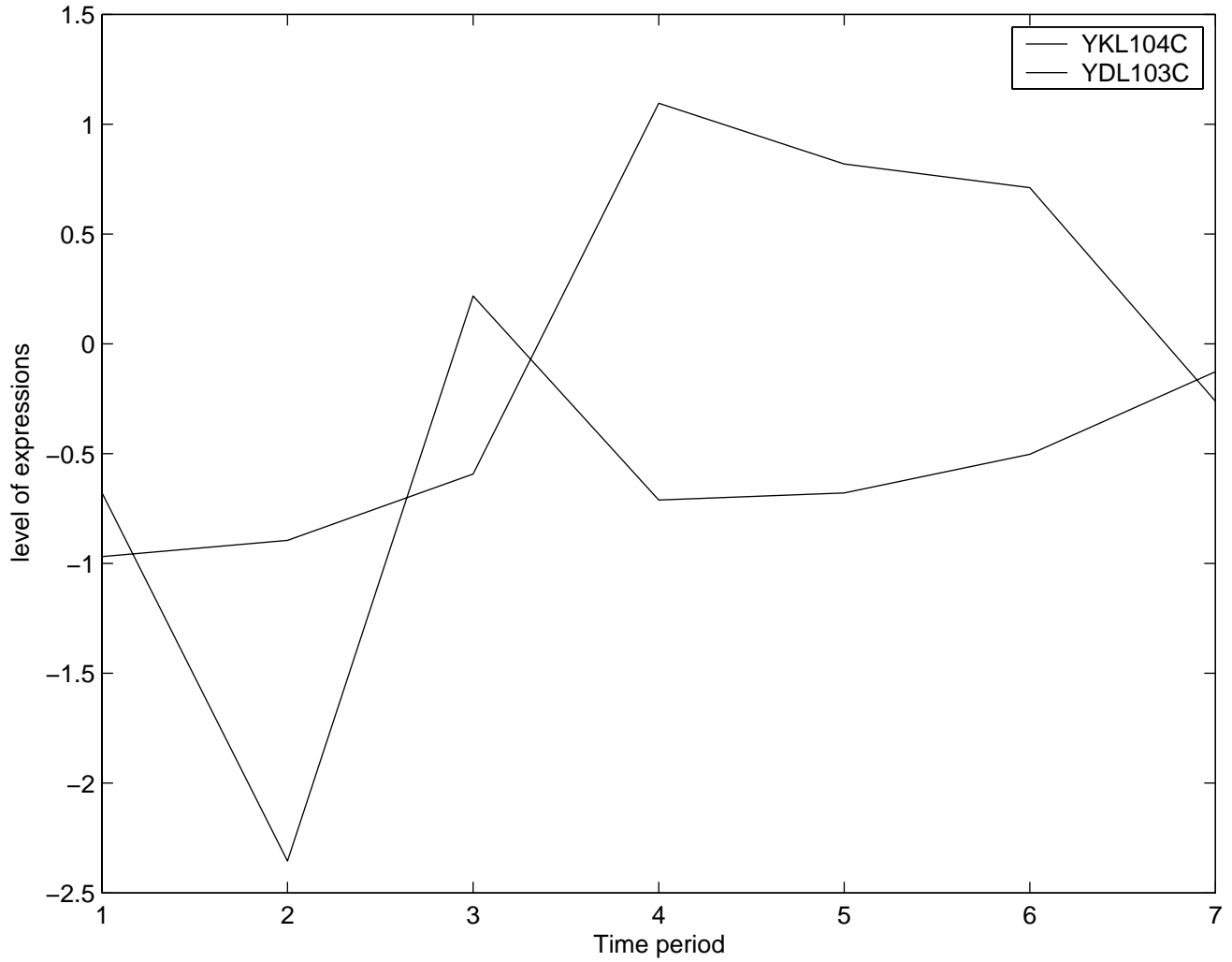
Expression of Genes involved in "aerobic respiration, electron donors reaction list" pathway



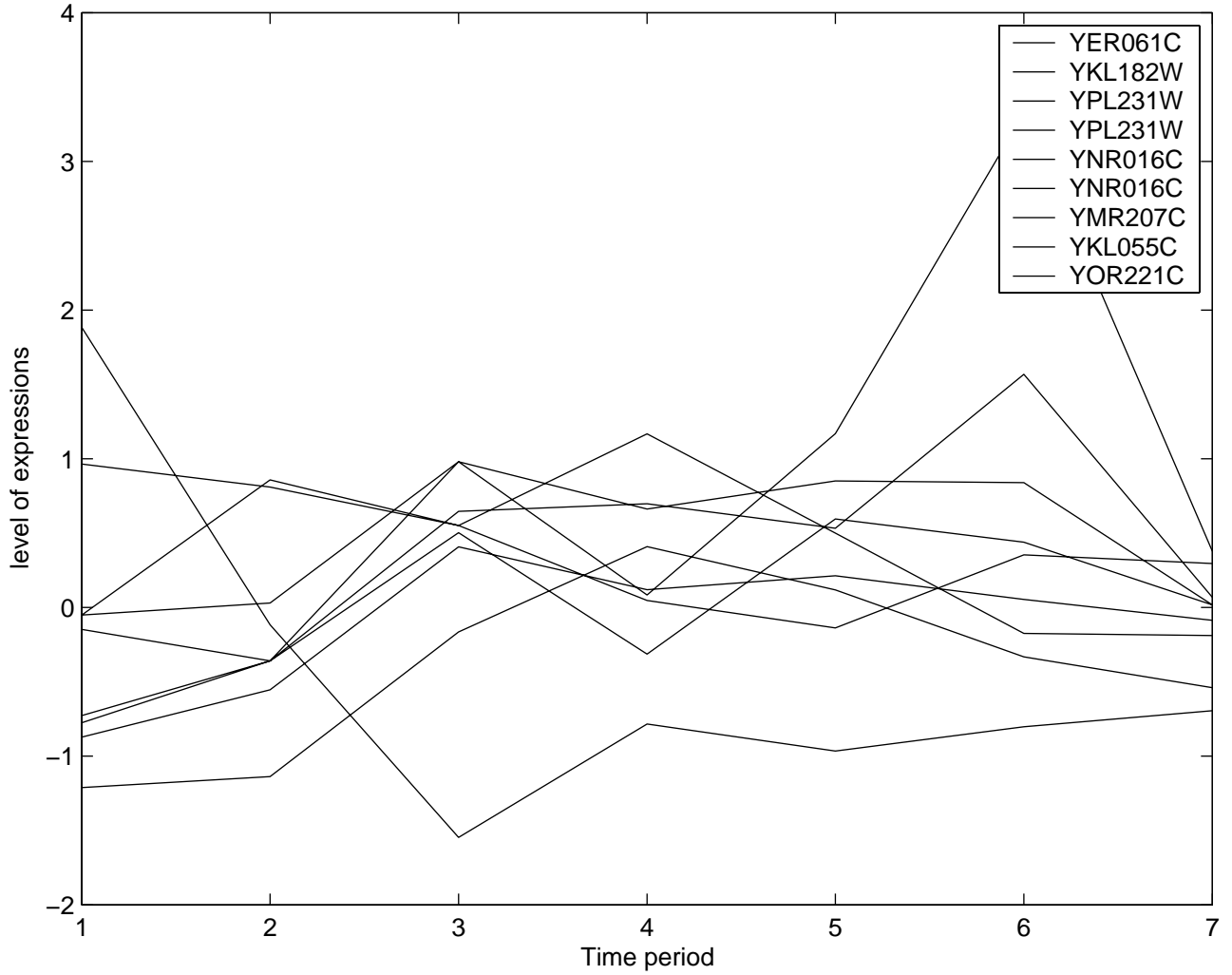
Expression of Genes involved in "anaerobic respiration, electron donors reaction list" pathway



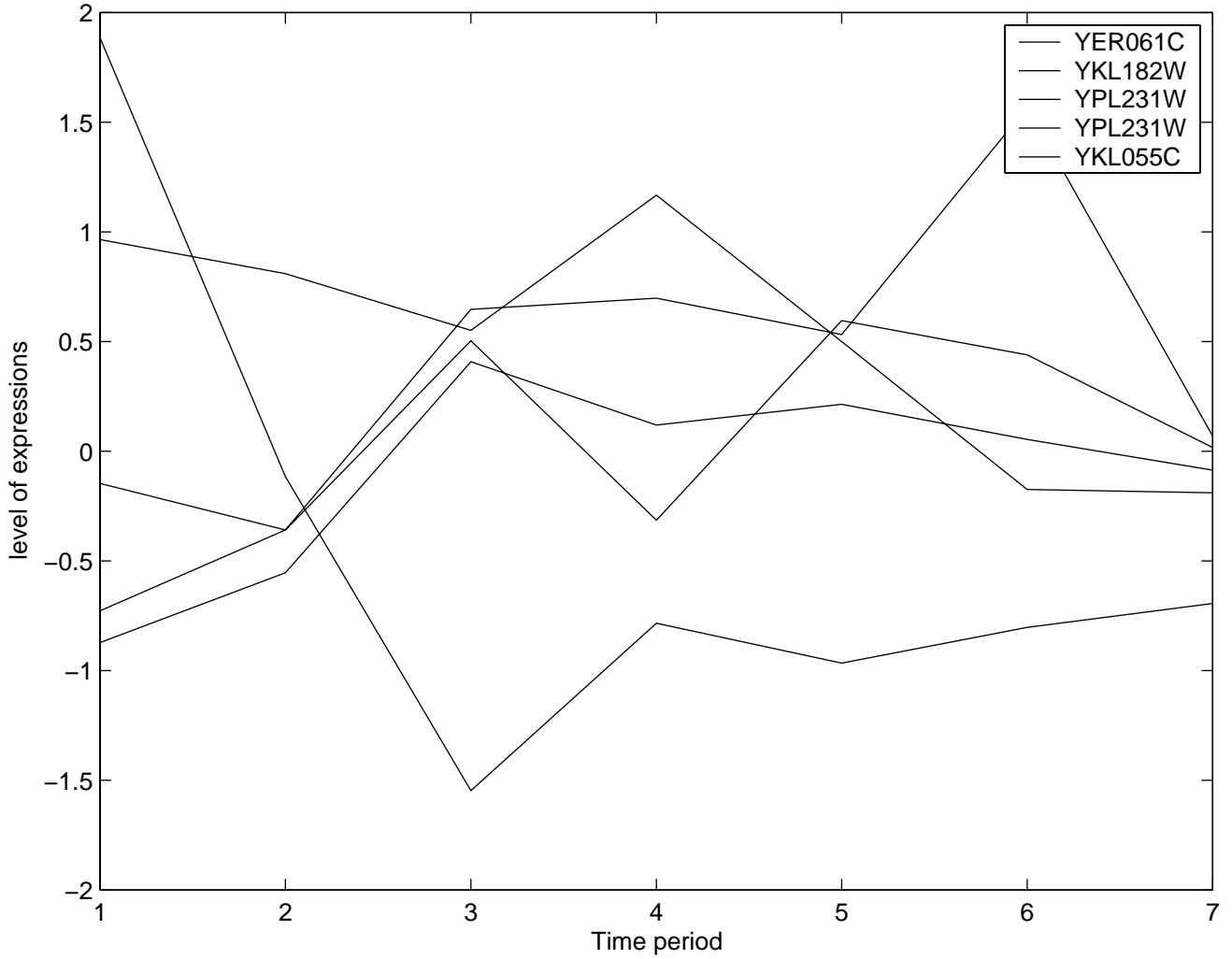
Expression of Genes involved in "dissimilation of N-acetylglucosamine, N-acetylmannosamine and N-acetylneuraminic acid" path



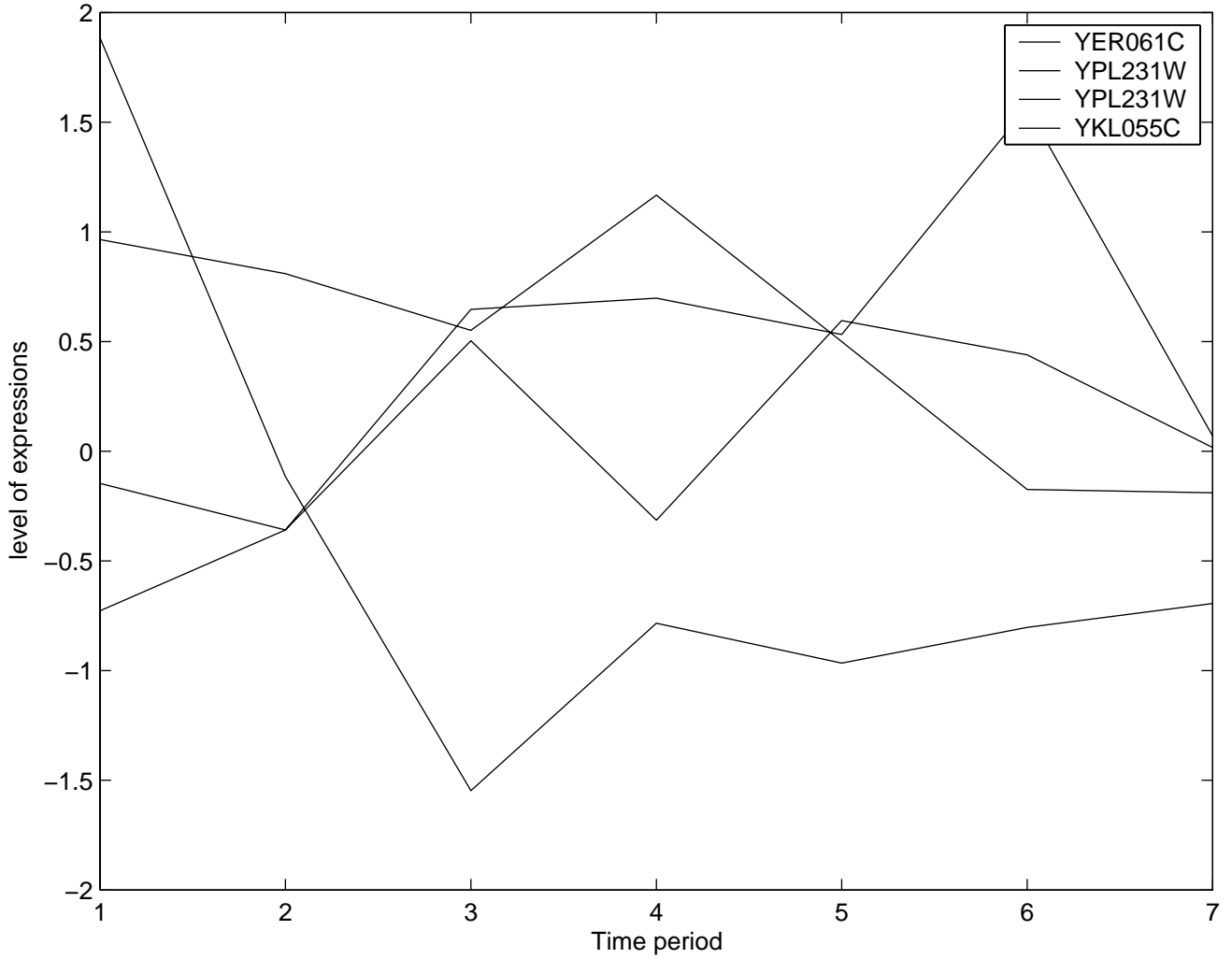
Expression of Genes involved in "fatty acid biosynthesis, initial steps" pathway



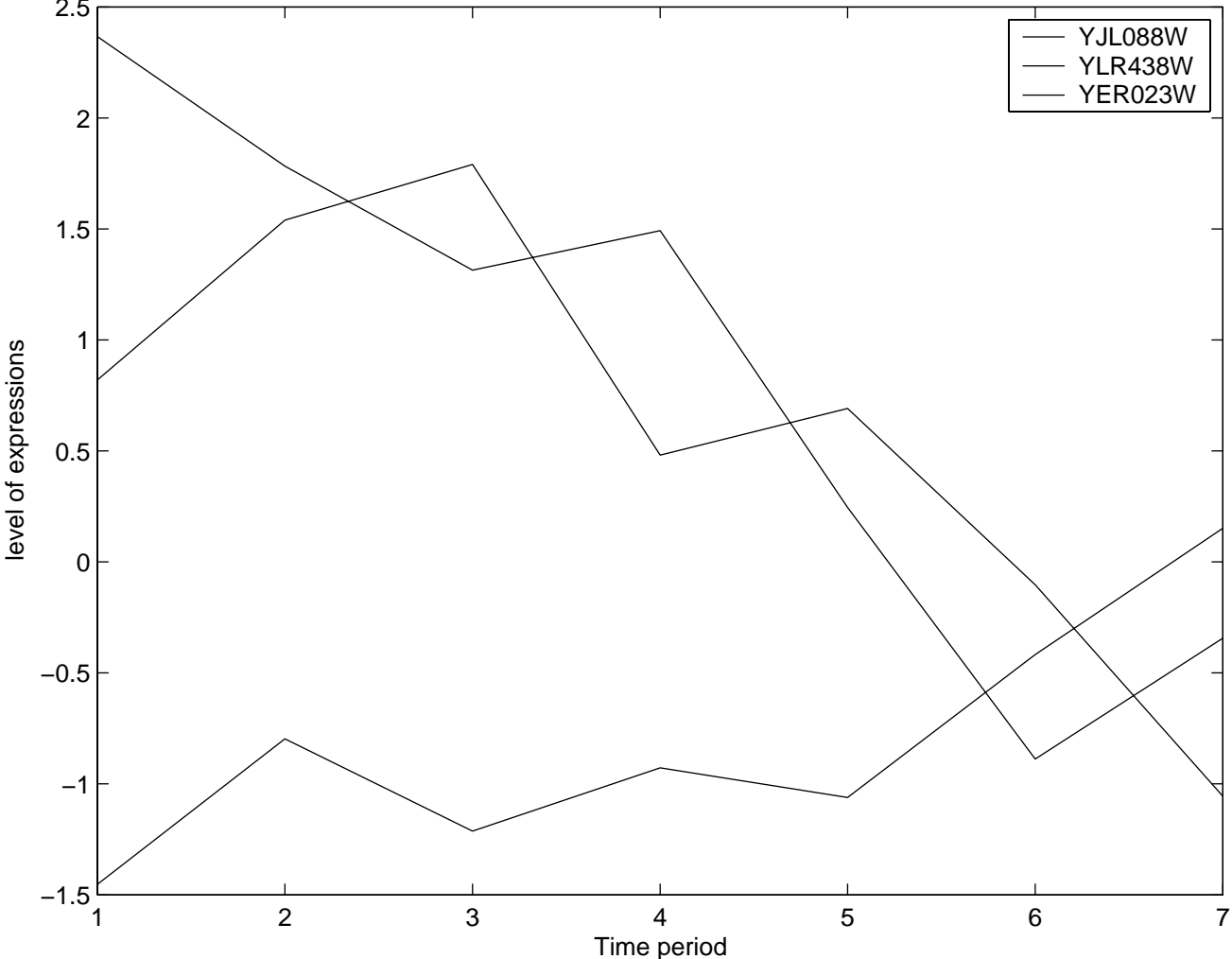
Expression of Genes involved in "fatty acid elongation, saturated" pathway



Expression of Genes involved in "fatty acid elongation, unsaturated" pathway

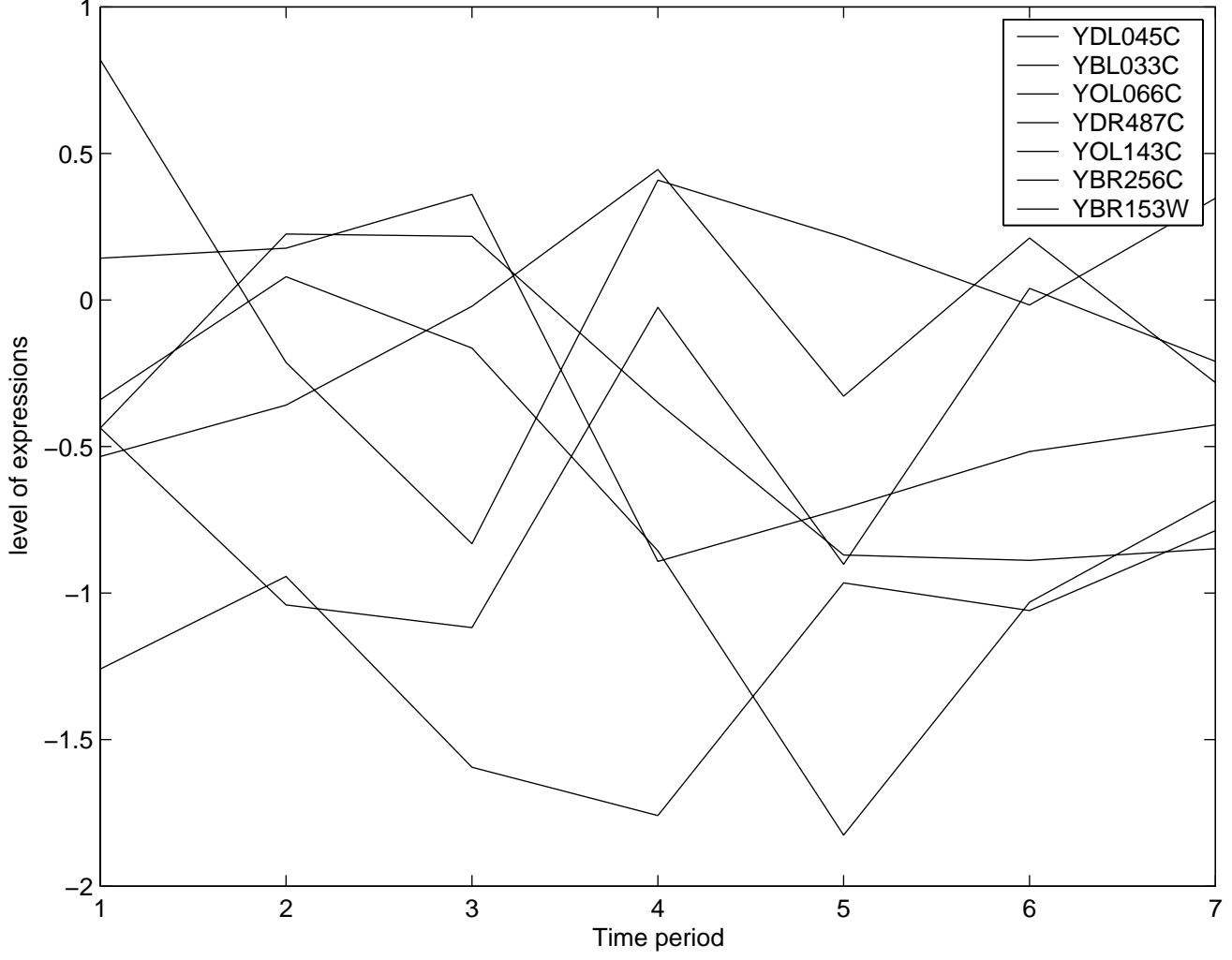


Expression of Genes involved in "interconversion of arginine, ornithine and proline" pathway

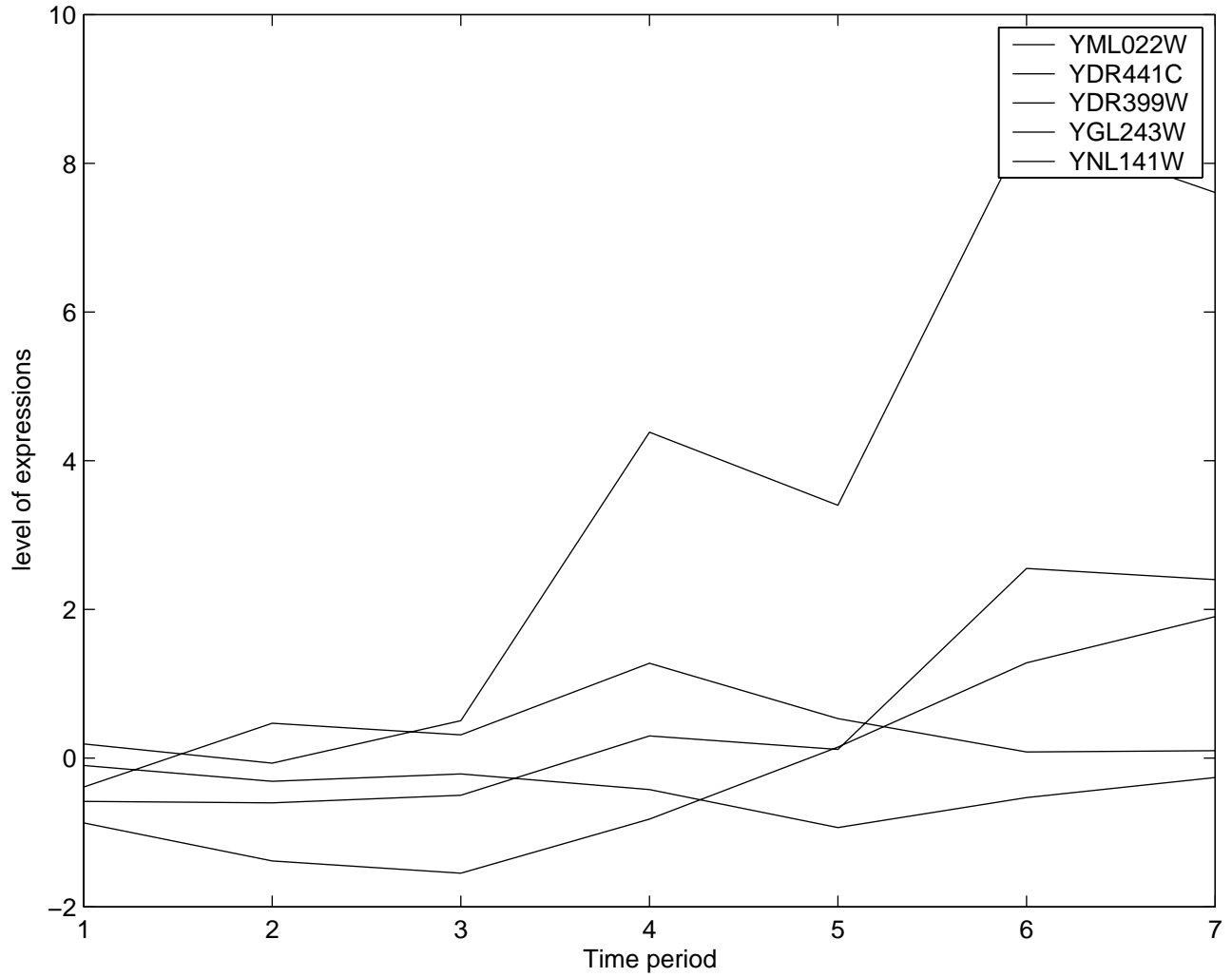




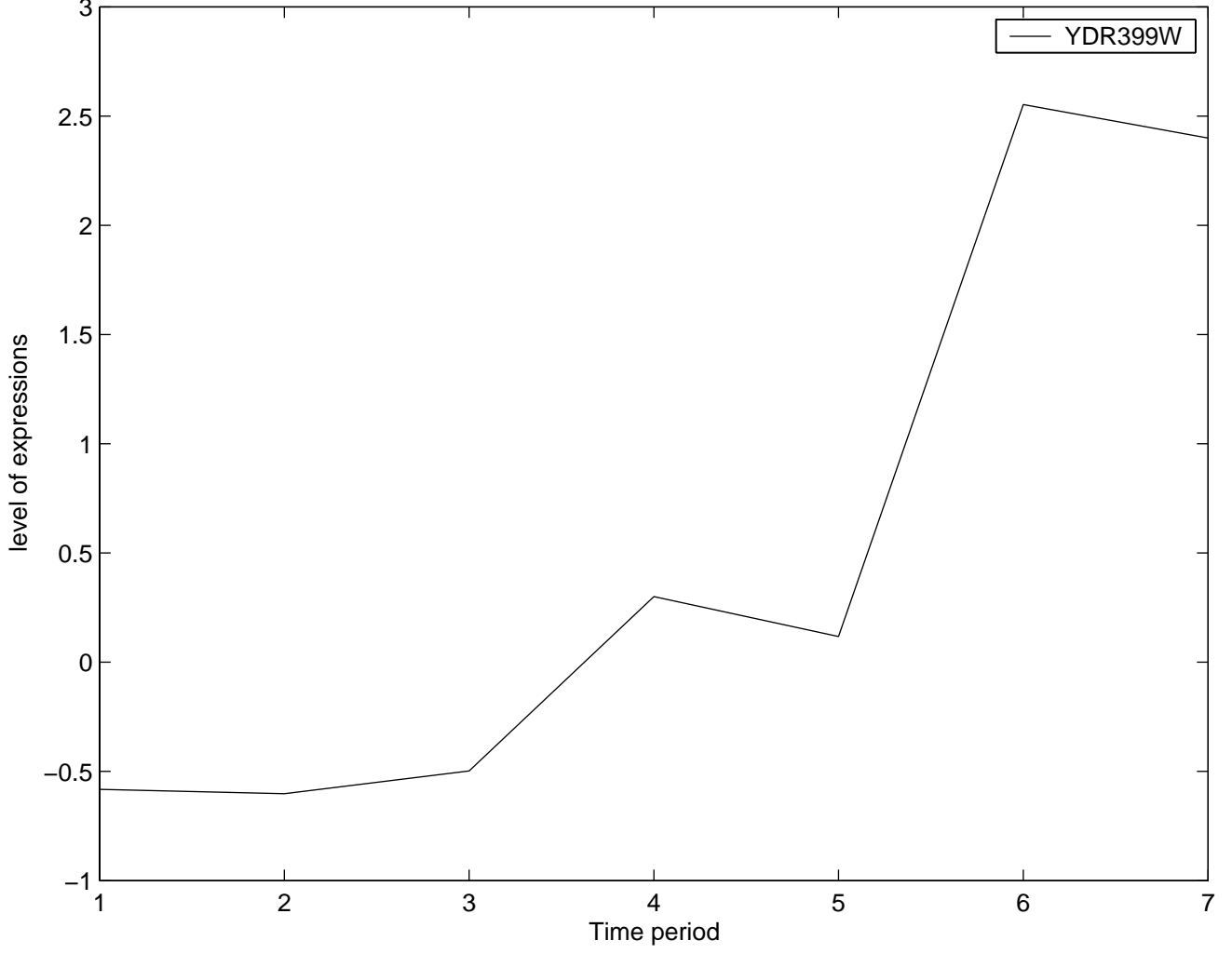
Expression of Genes involved in "riboflavin, FMN and FAD biosynthesis" pathway



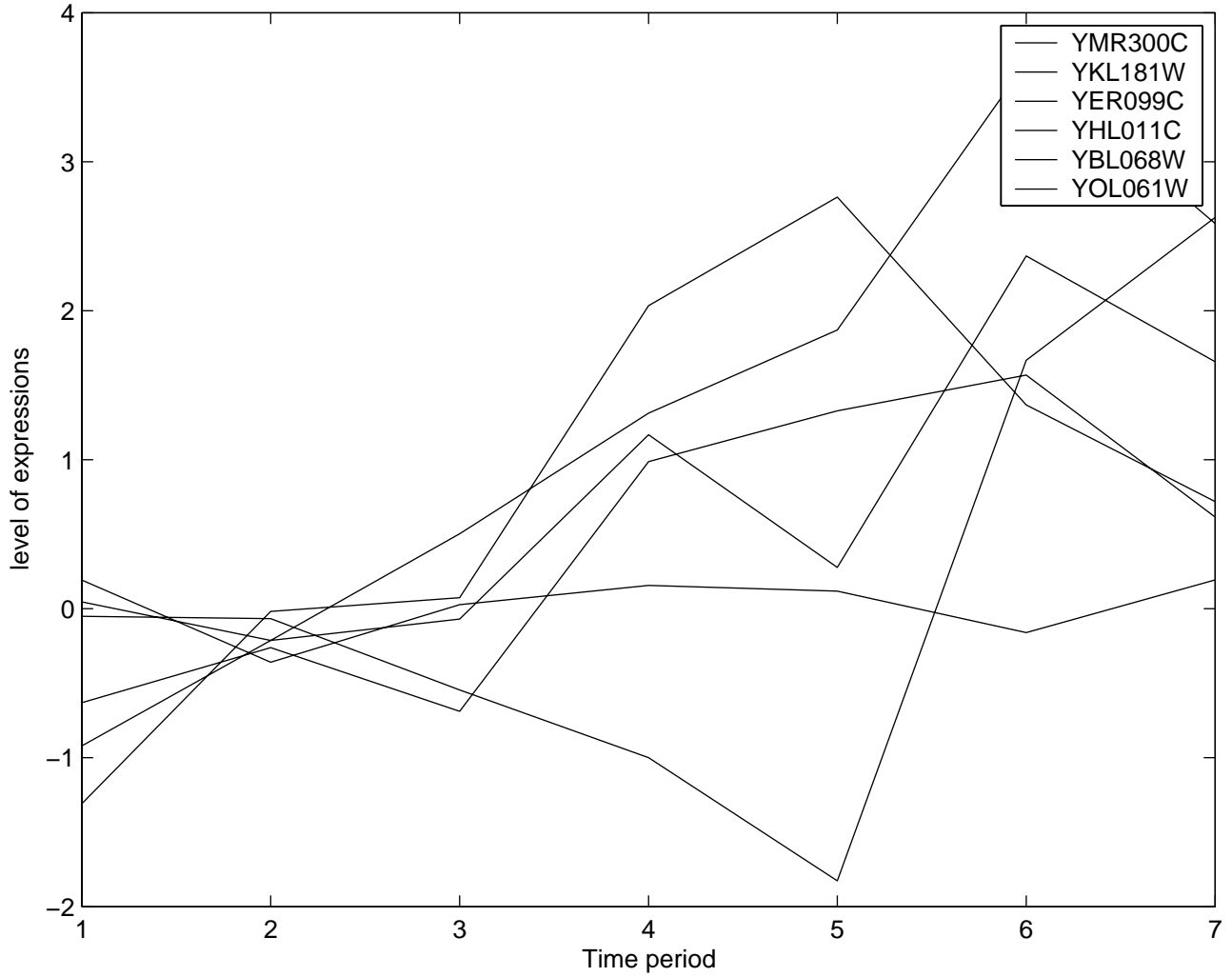
Expression of Genes involved in "salvage pathways of adenine, hypoxanthine, and their nucleosides" pathway



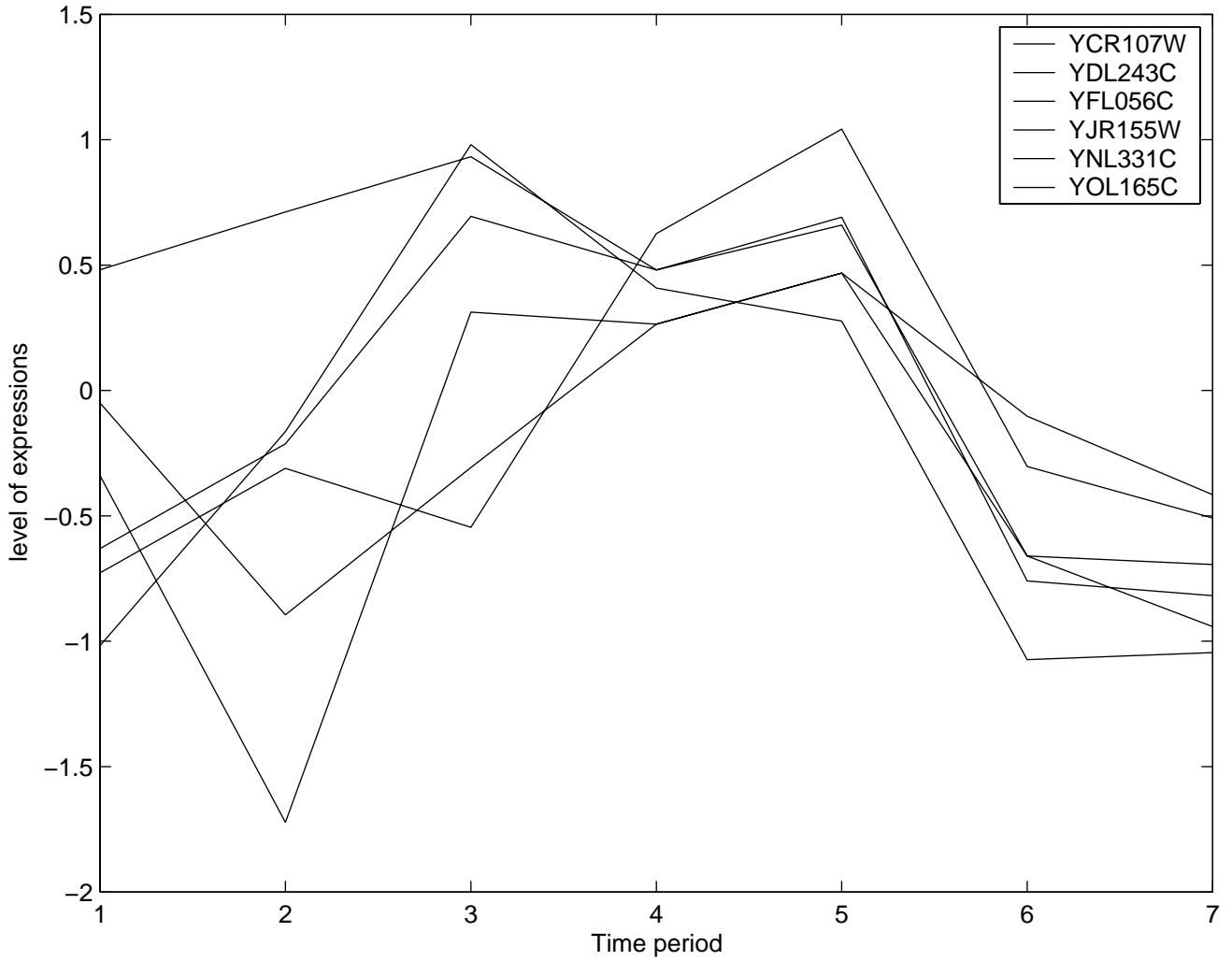
Expression of Genes involved in "salvage pathways of guanine, xanthine, and their nucleosides" pathway



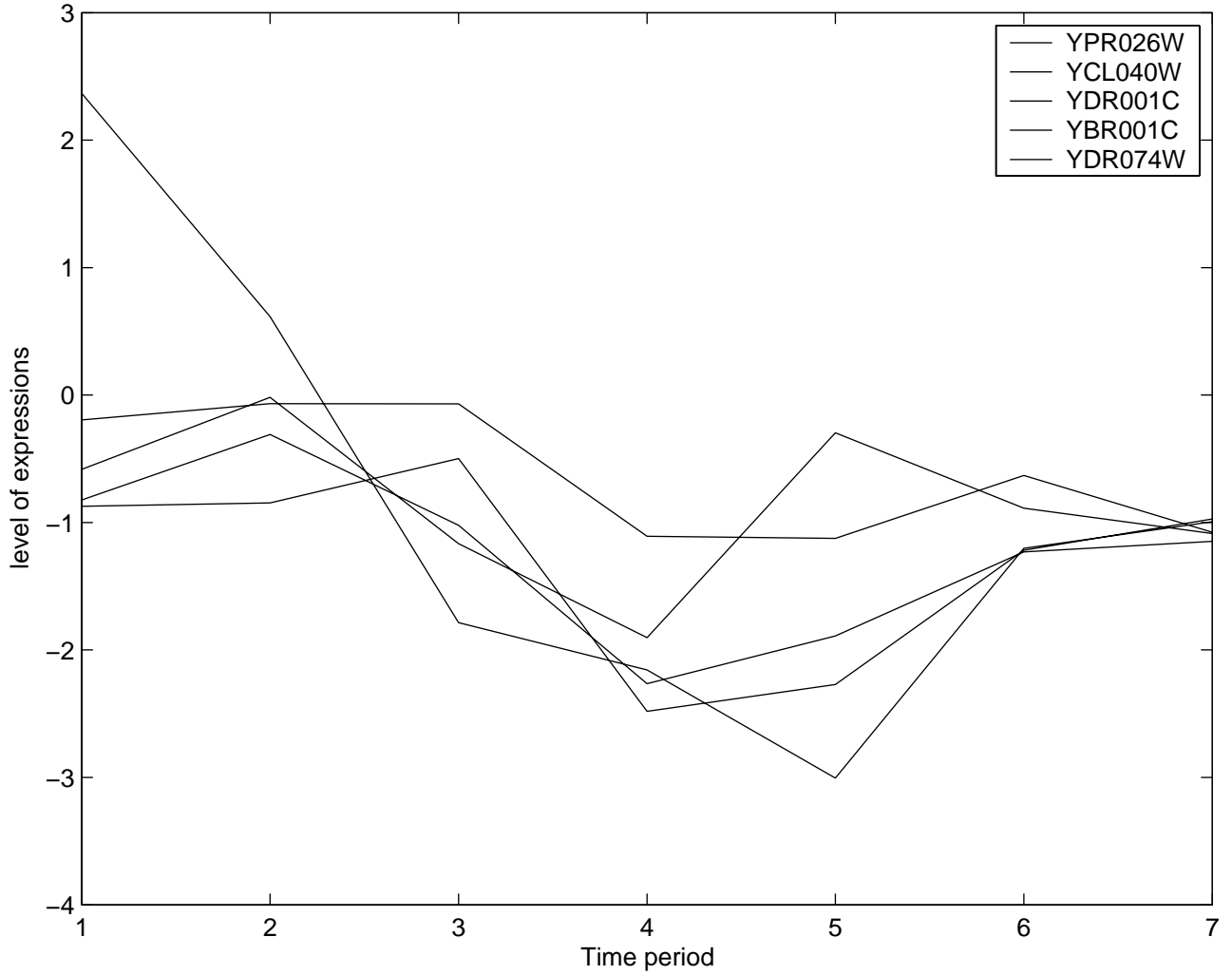
Expression of Genes involved in "superpathway of histidine, purine, and pyrimidine biosynthesis" pathway



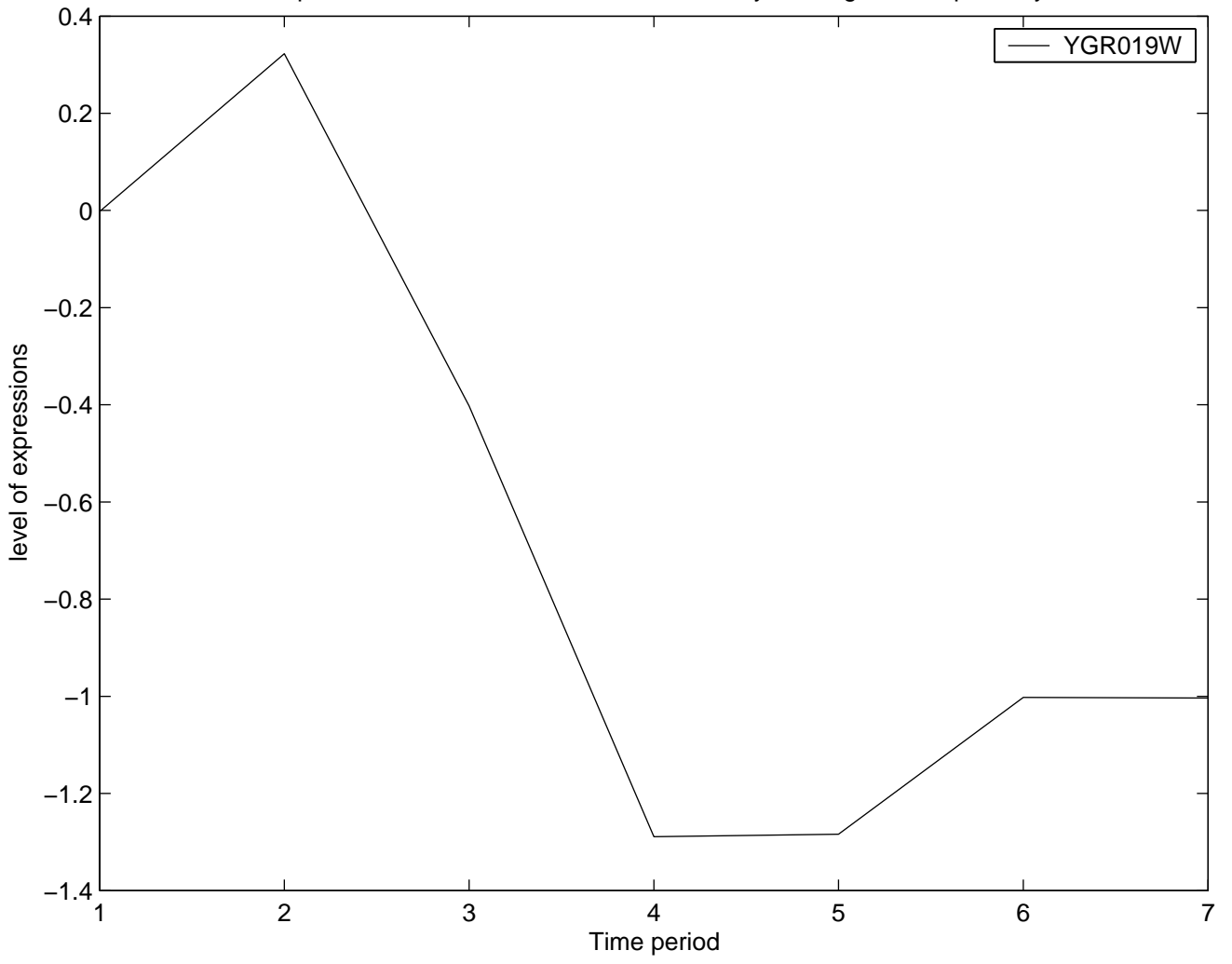
Expression of Genes involved in "toluene degradation, via catechol" pathway



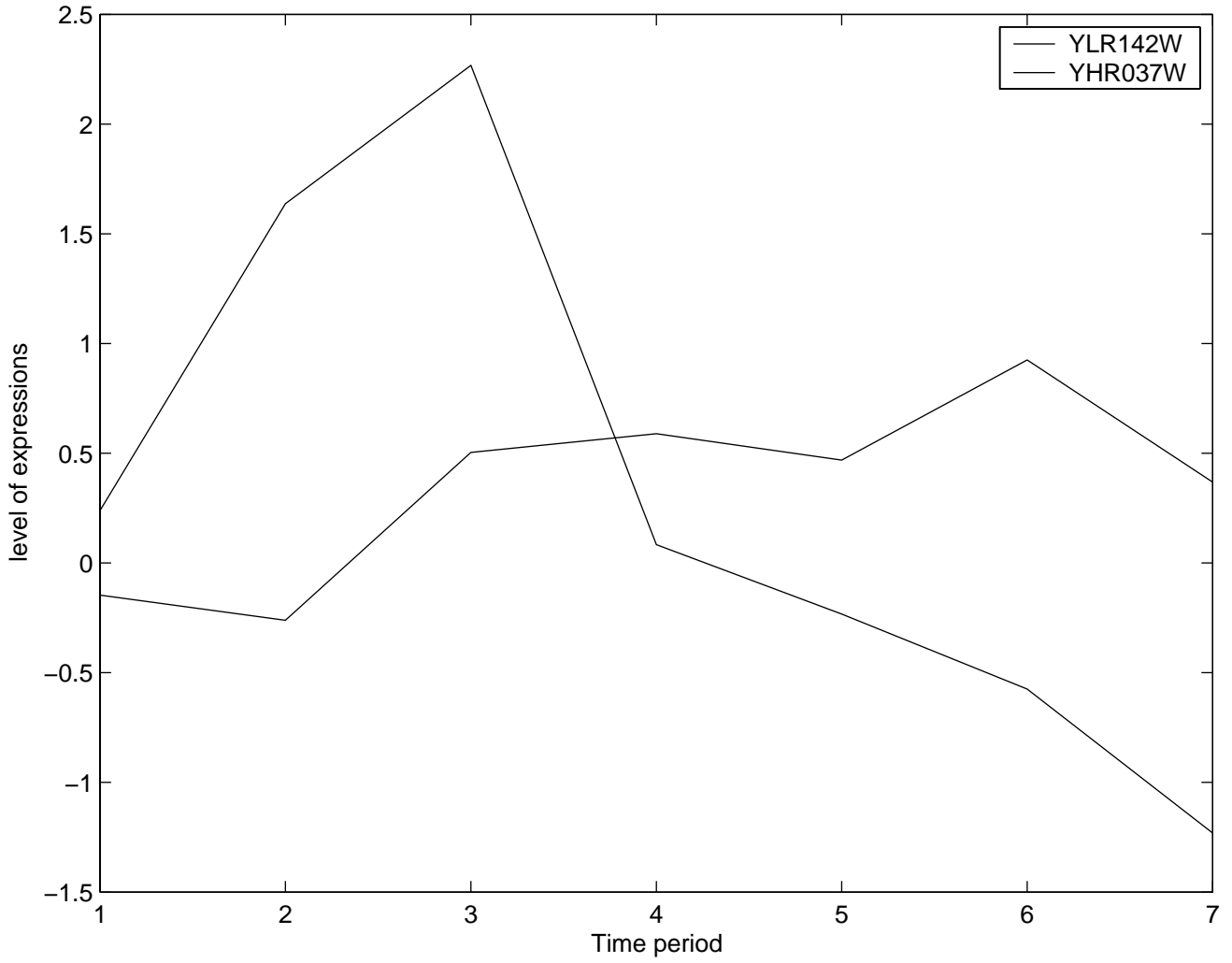
Expression of Genes involved in "trehalose degradation, low osmolarity" pathway



Expression of Genes involved in 4-aminobutyrate degradation pathway

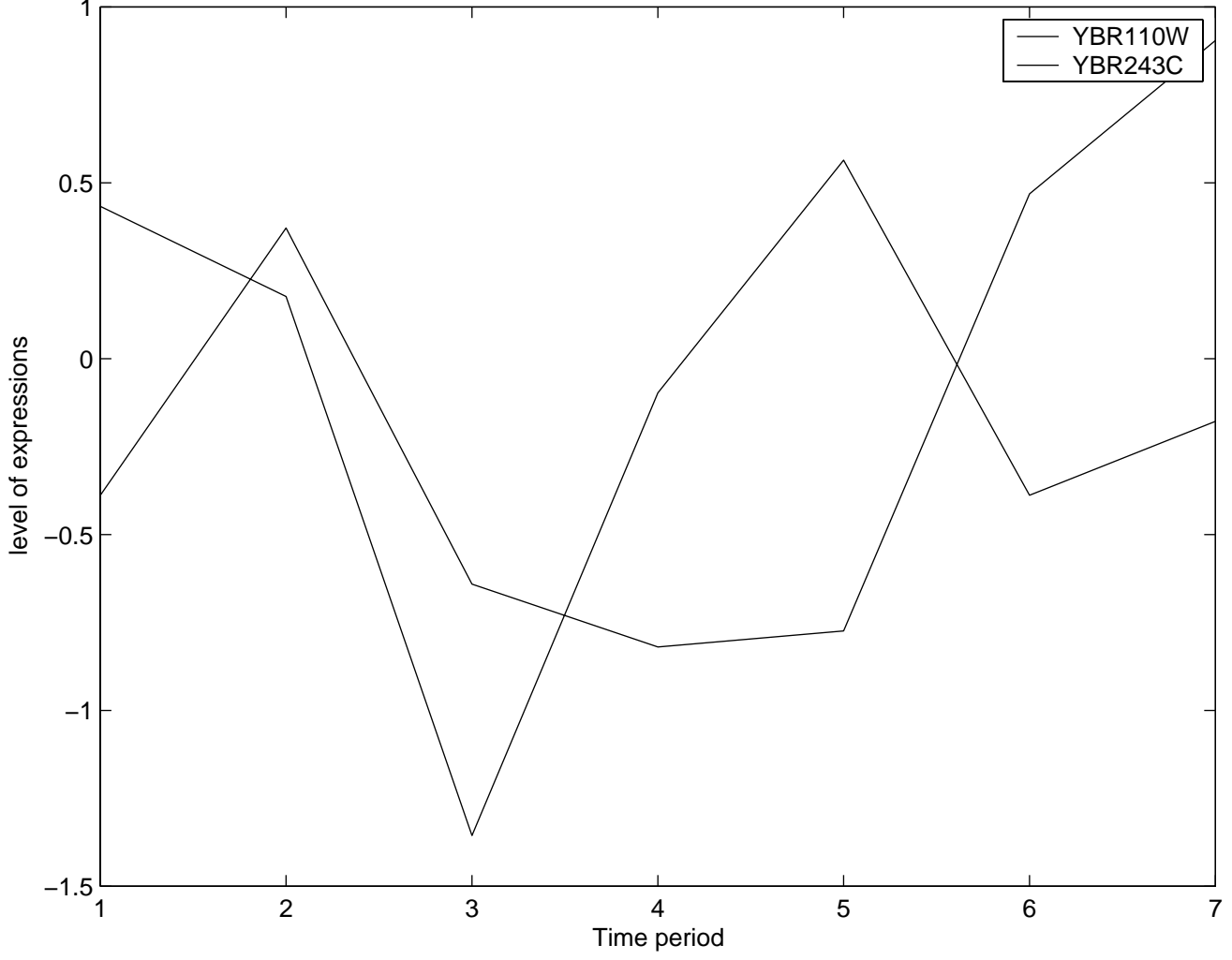


Expression of Genes involved in 4-hydroxyproline degradation pathway

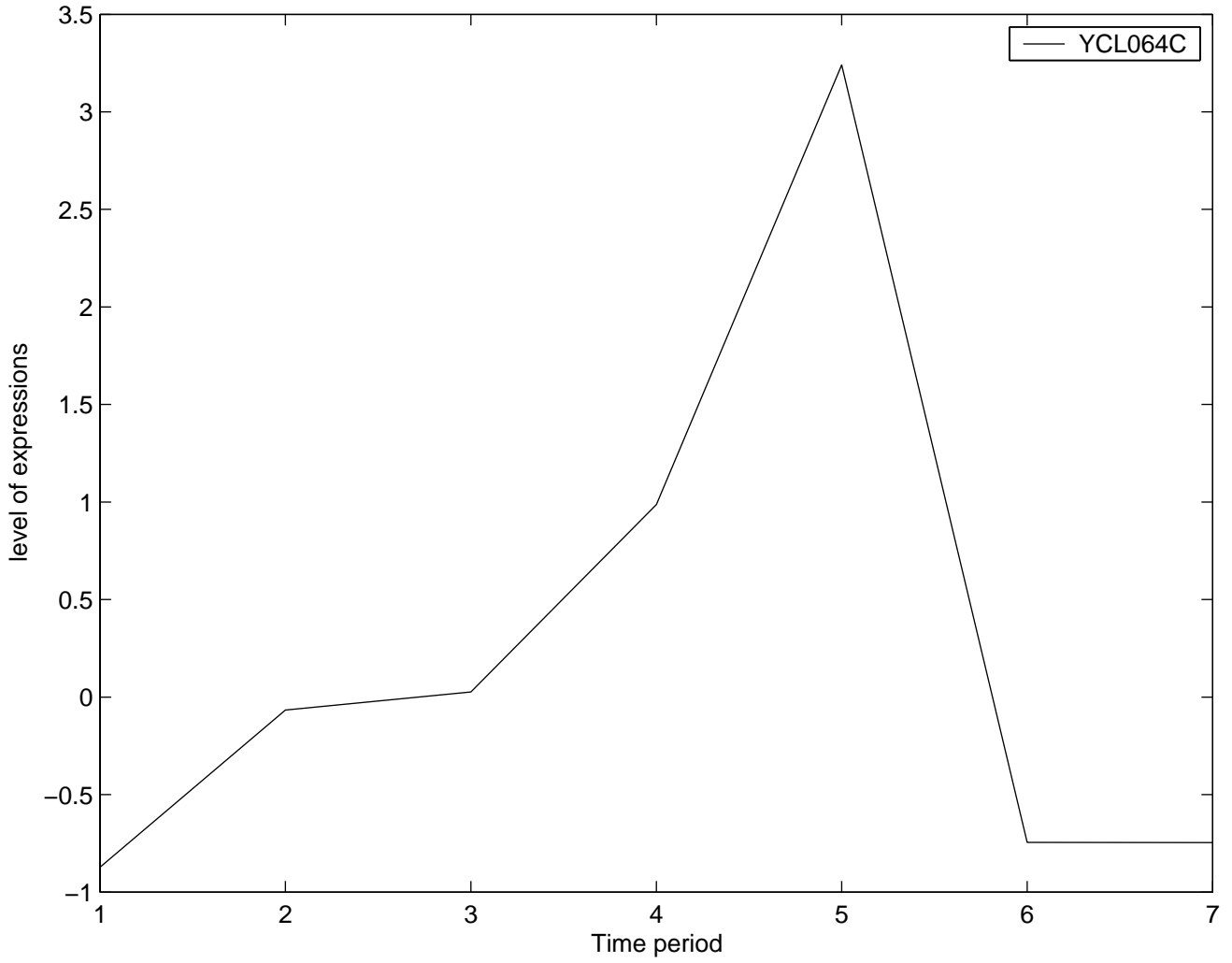




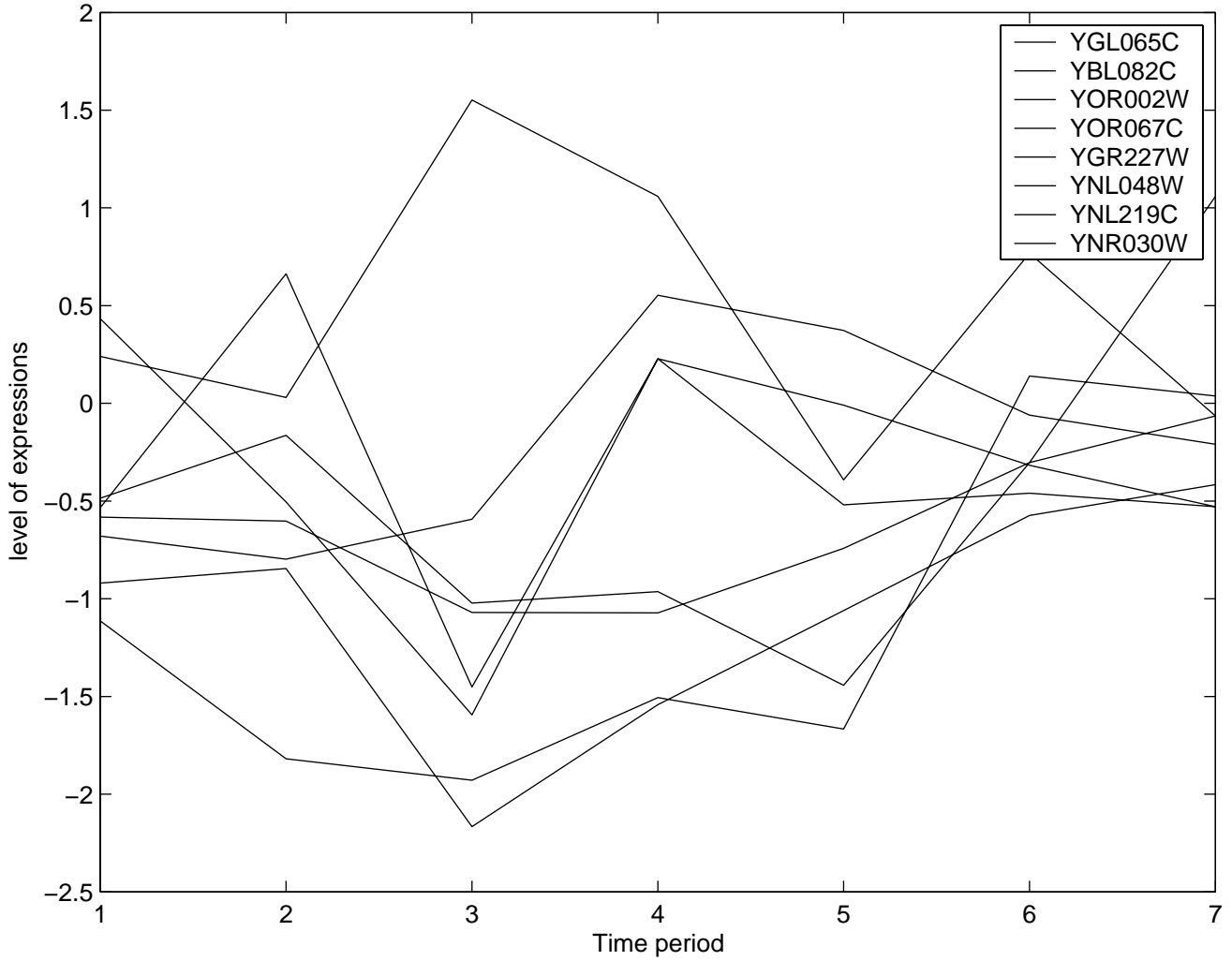
Expression of Genes involved inCore lipid-linked oligosaccharide biosynthesis pathway



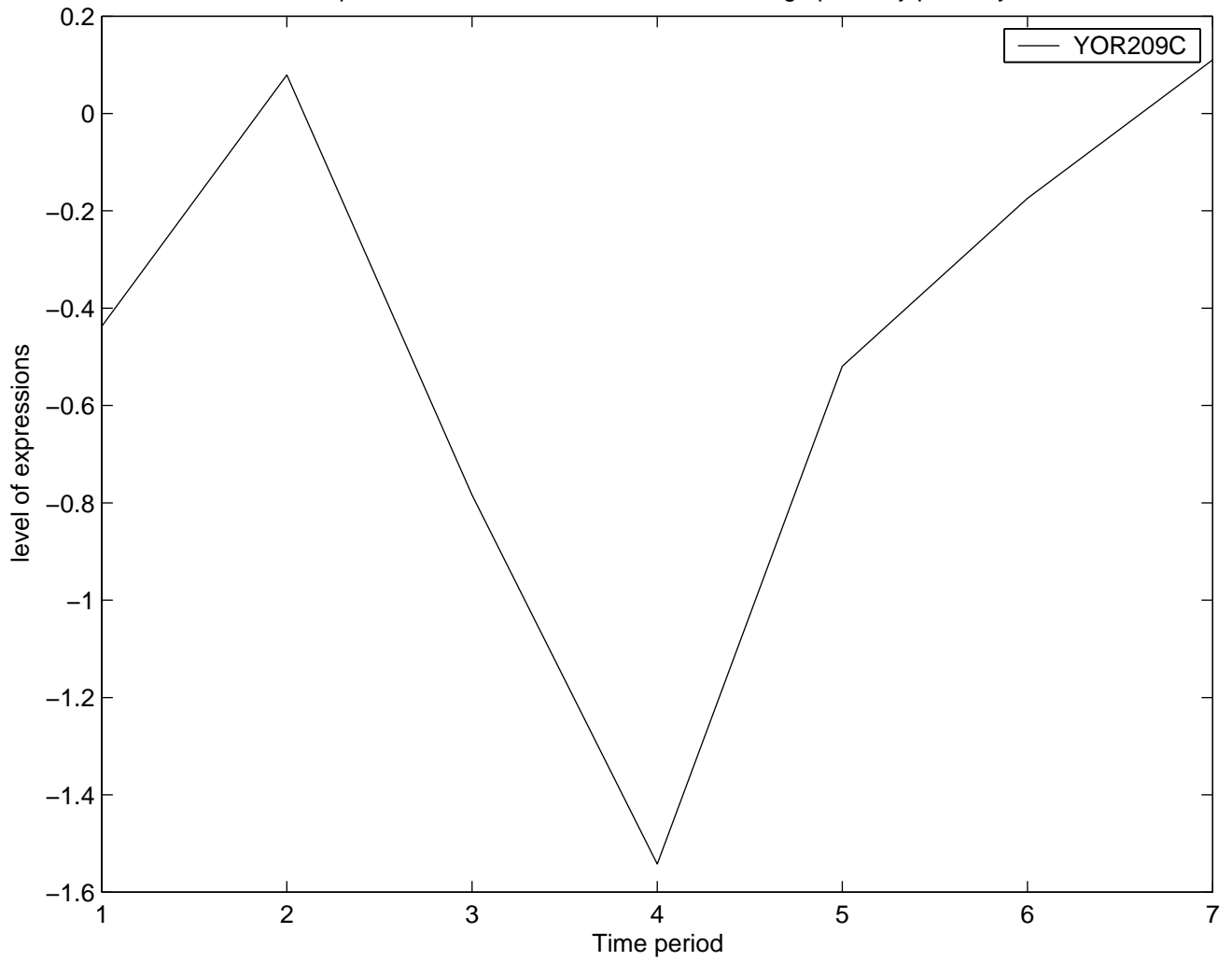
Expression of Genes involved in L-serine degradation pathway



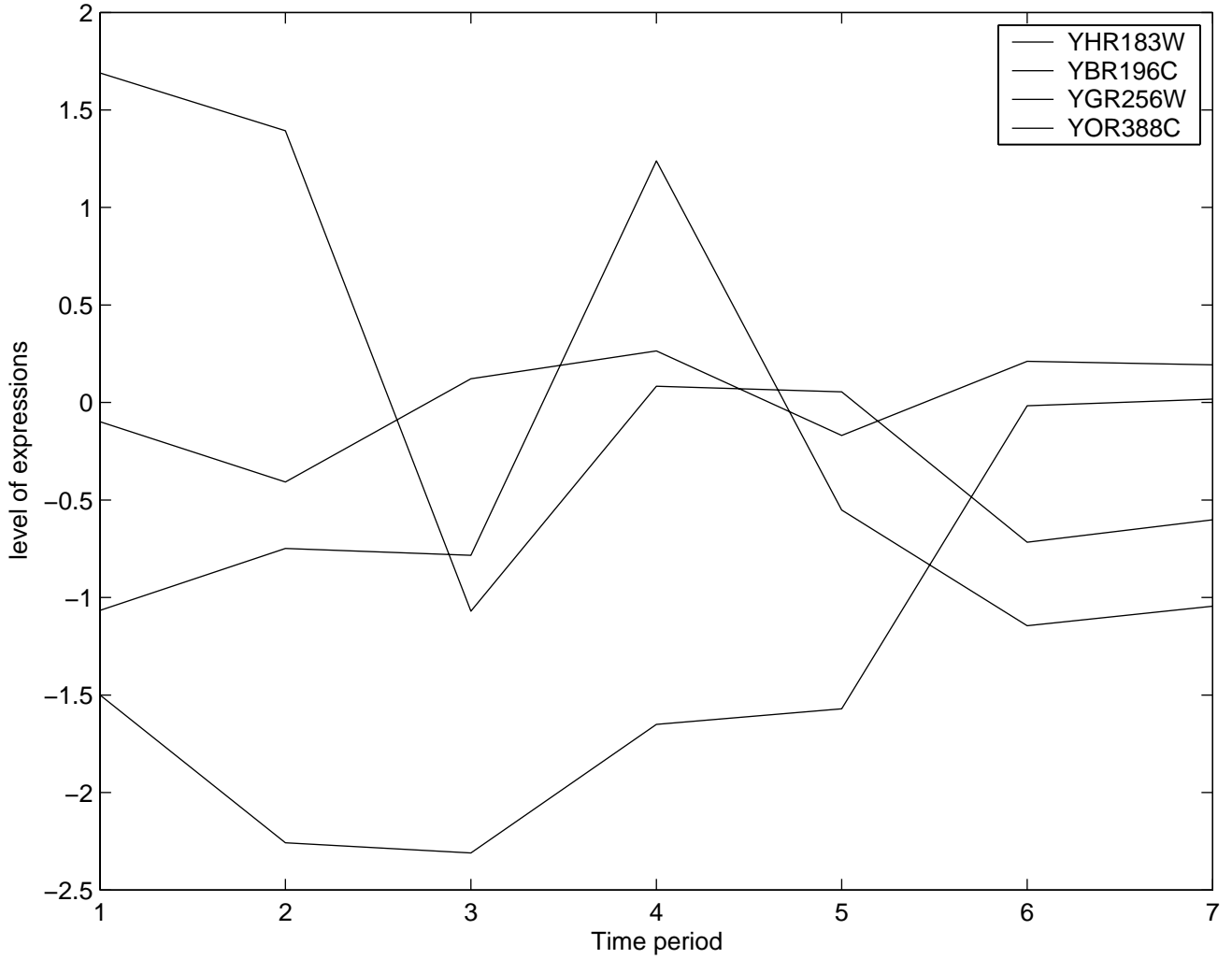
Expression of Genes involved inLipid-linked oligosaccharide biosynthesis pathway



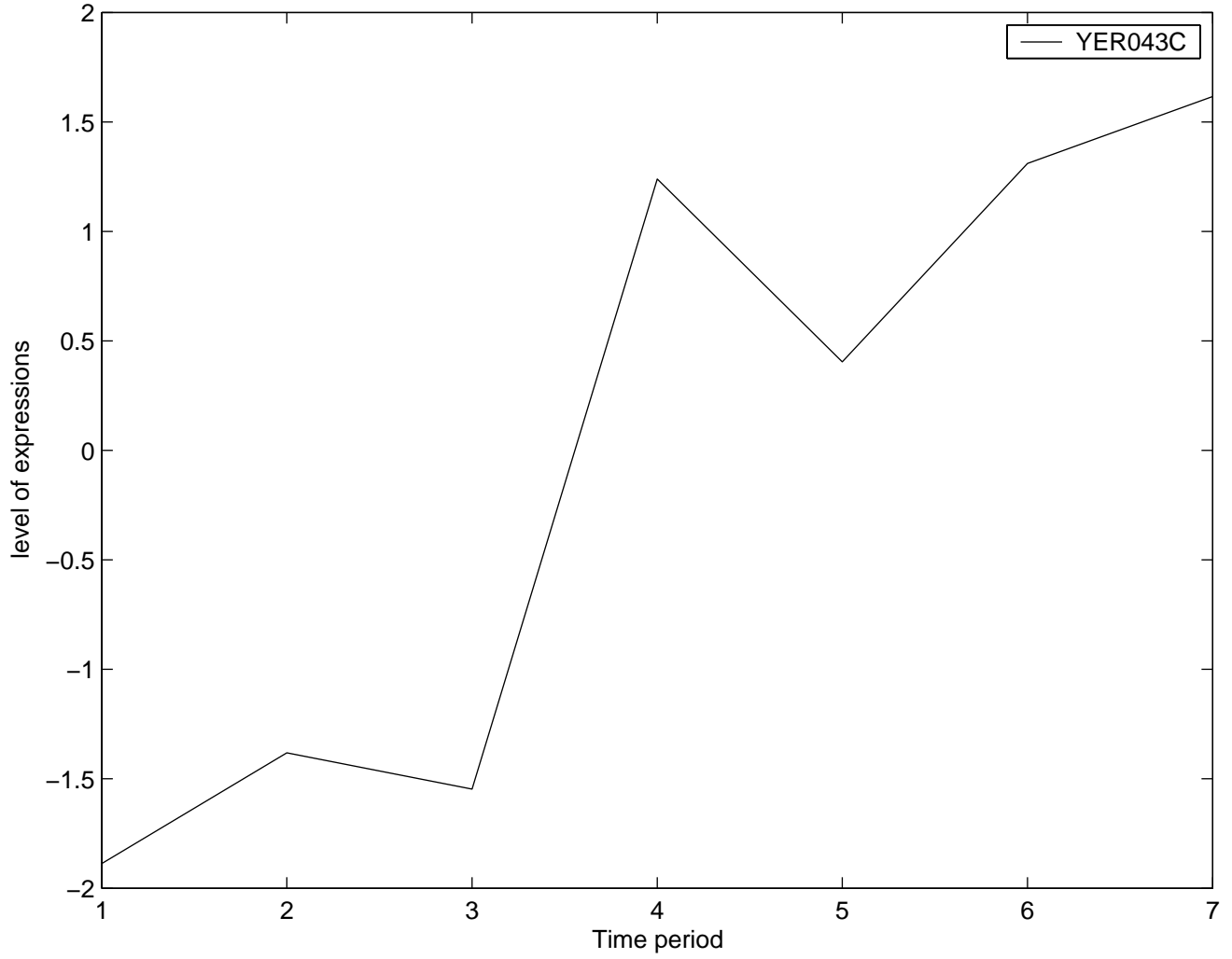
Expression of Genes involved in NAD salvage pathway pathway



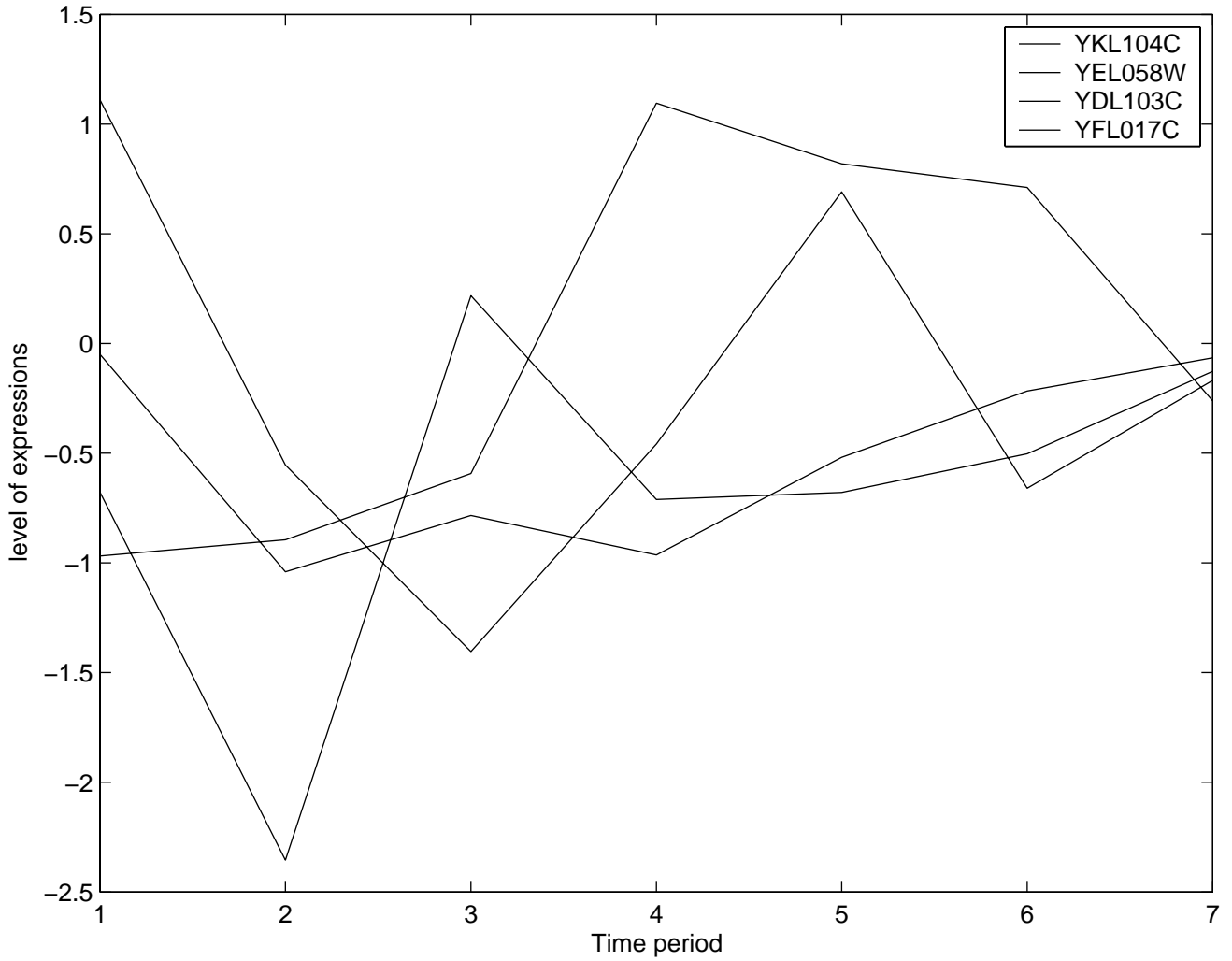
Expression of Genes involved in RuMP cycle and formaldehyde assimilation pathway



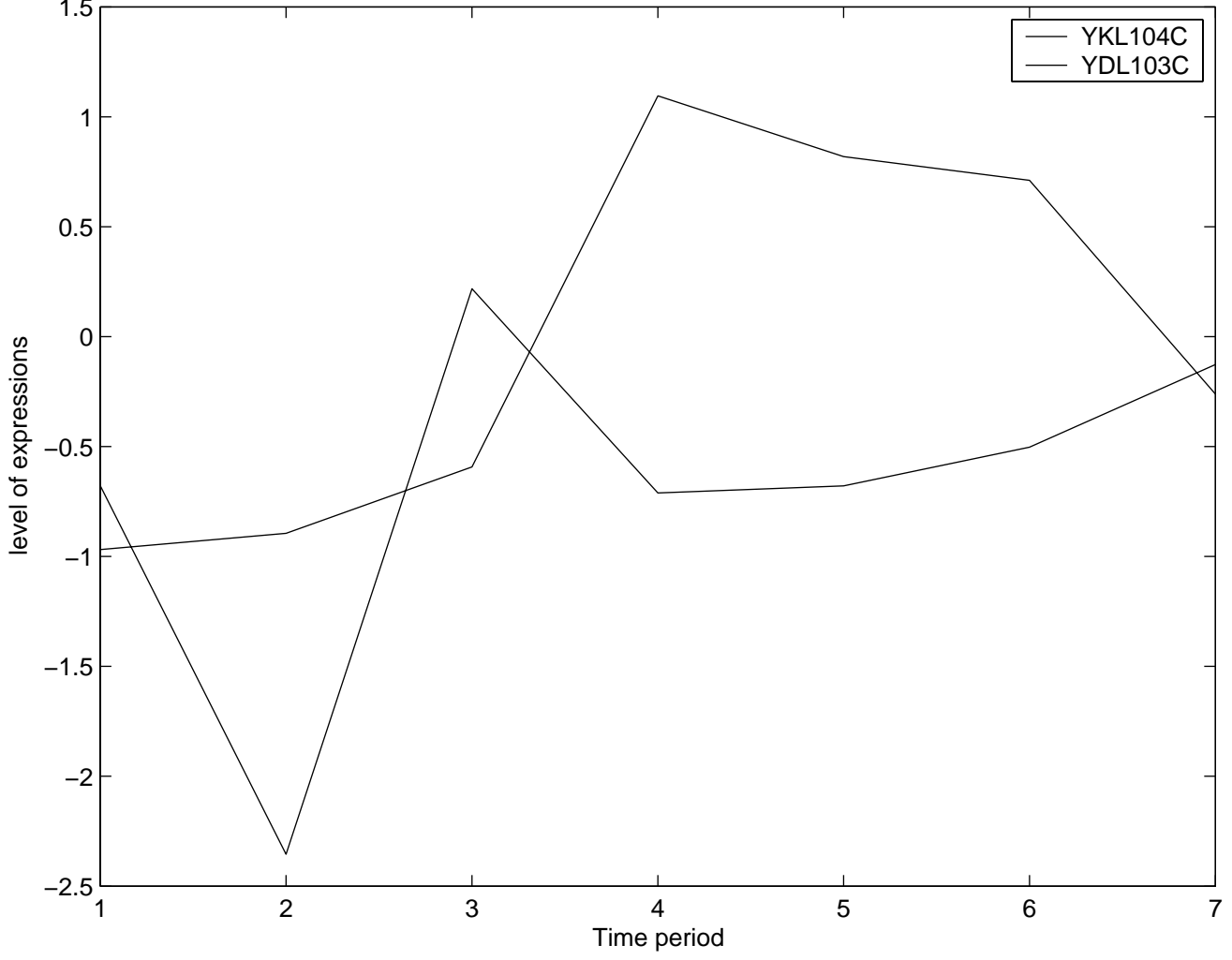
Expression of Genes involved in S-adenosylhomocysteine catabolism pathway



Expression of Genes involved inUDP-N-acetylgalactosamine biosynthesis pathway

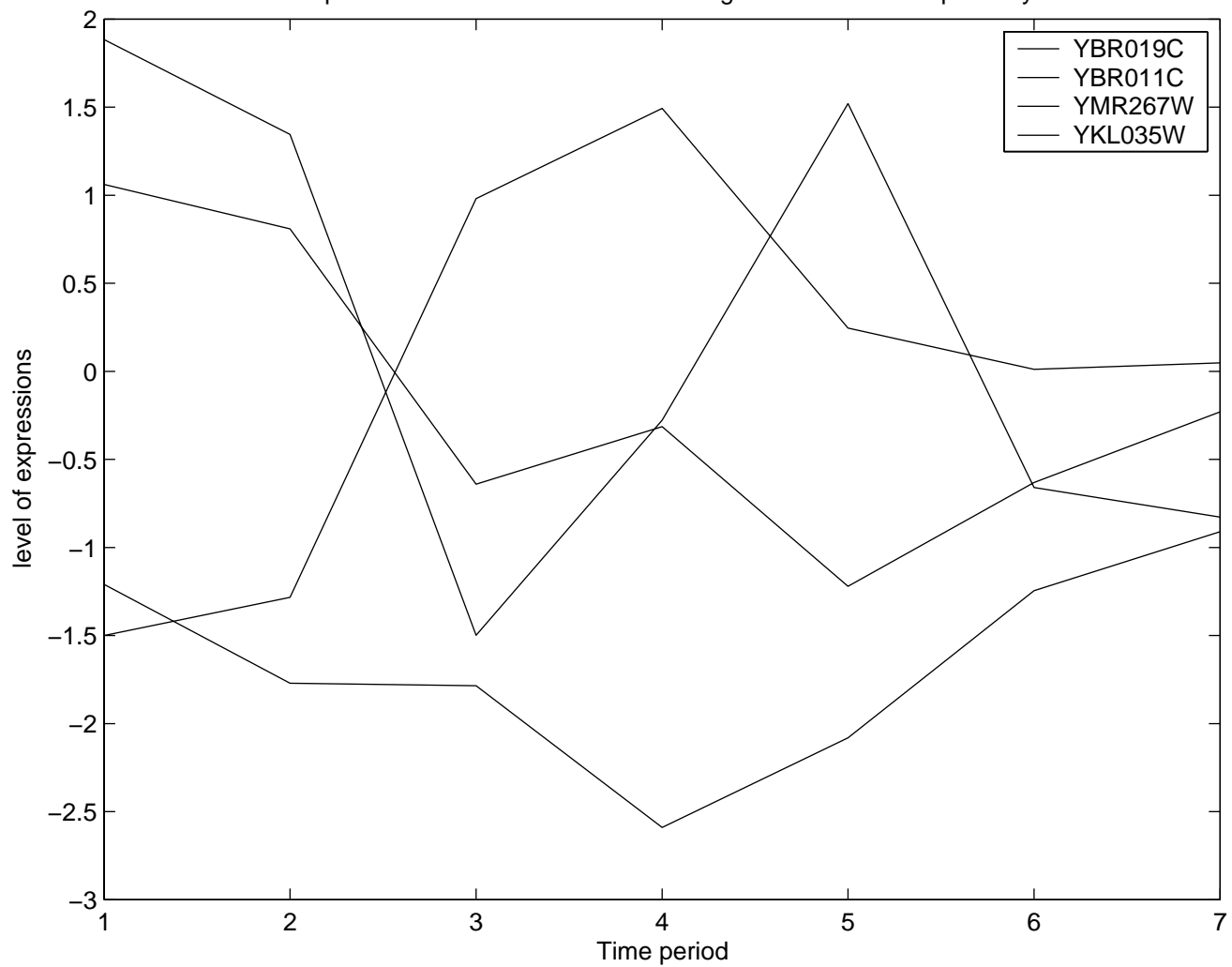


Expression of Genes involved inUDP-N-acetylglucosamine biosynthesis pathway

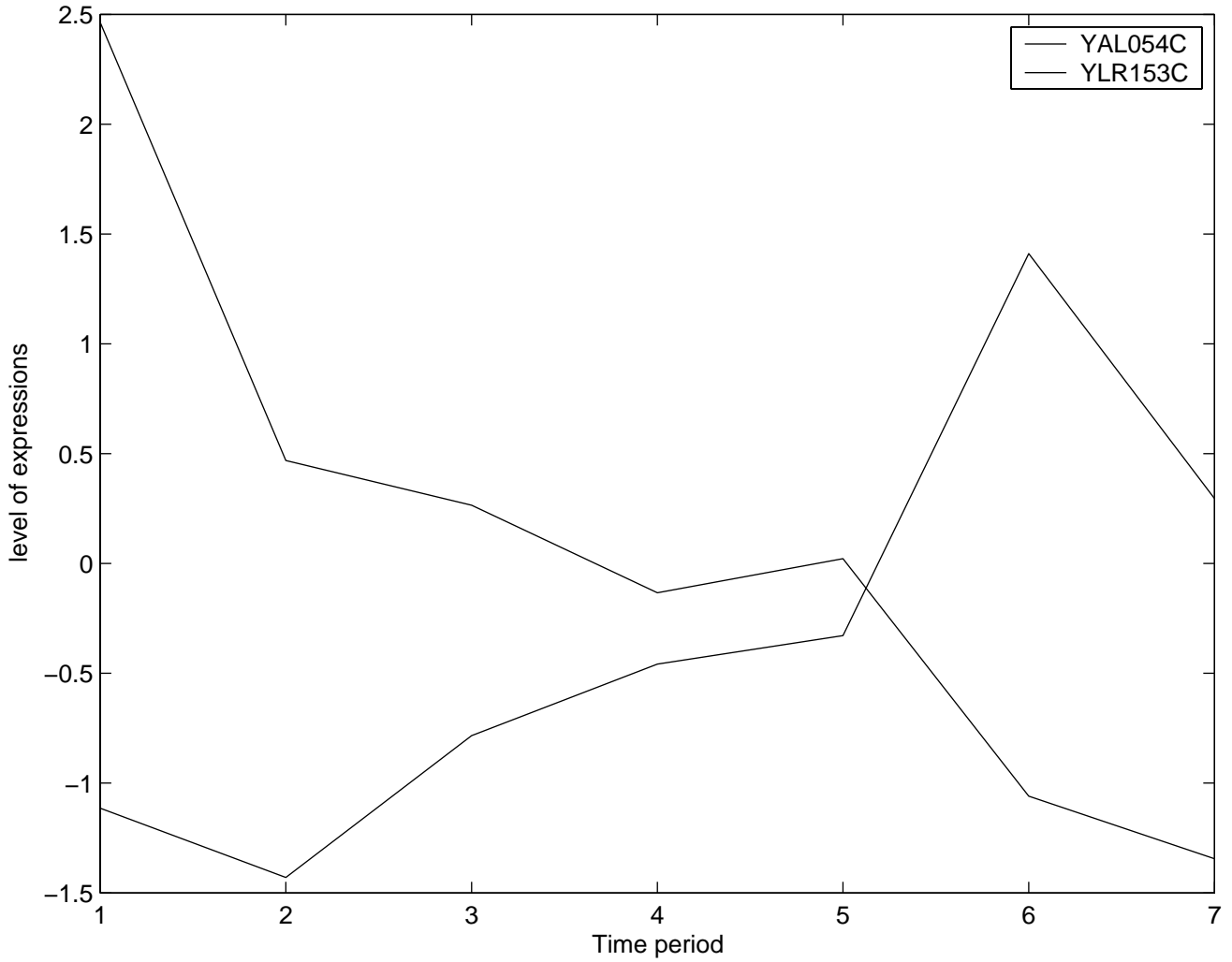




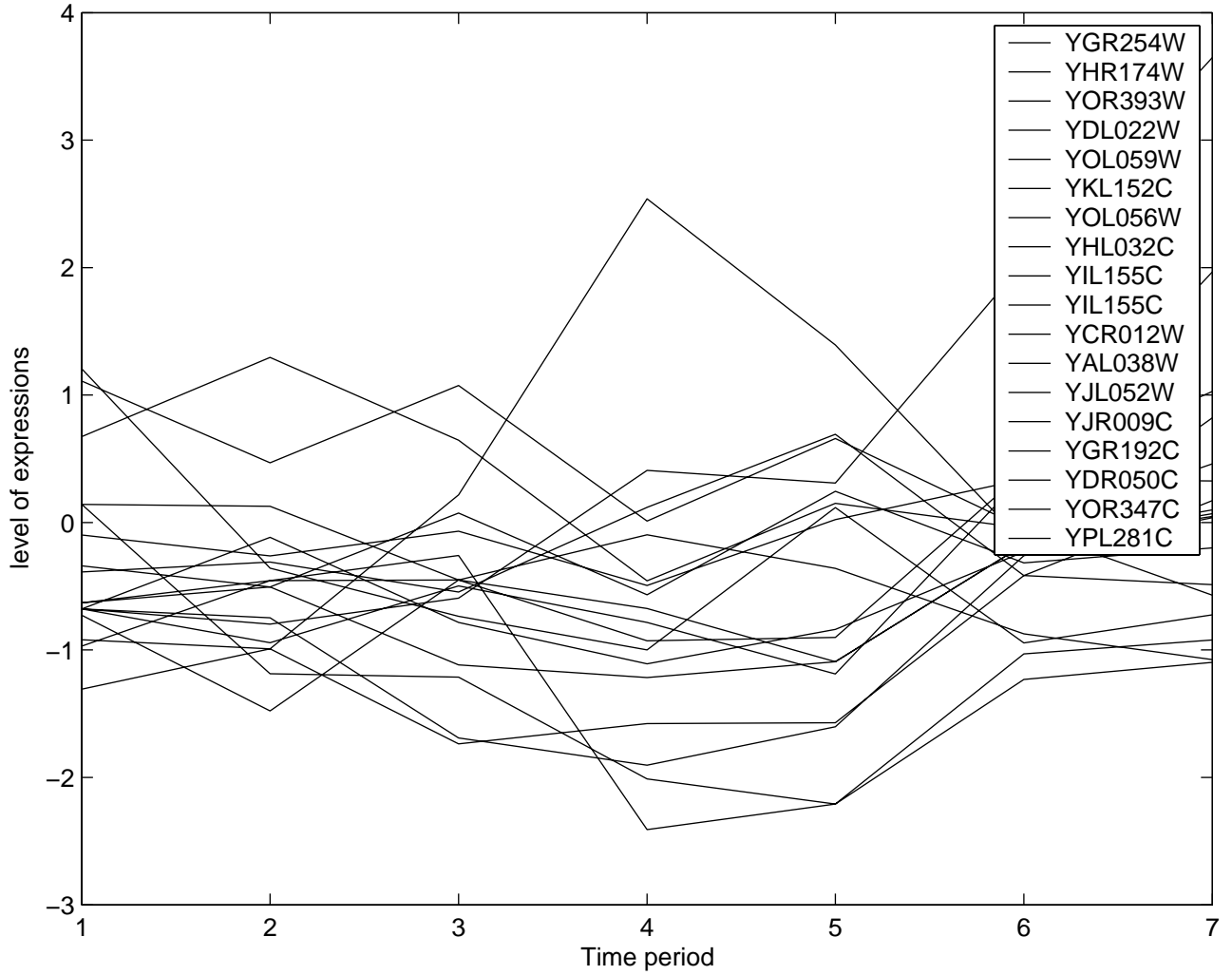
Expression of Genes involved inUDP-glucose conversion pathway



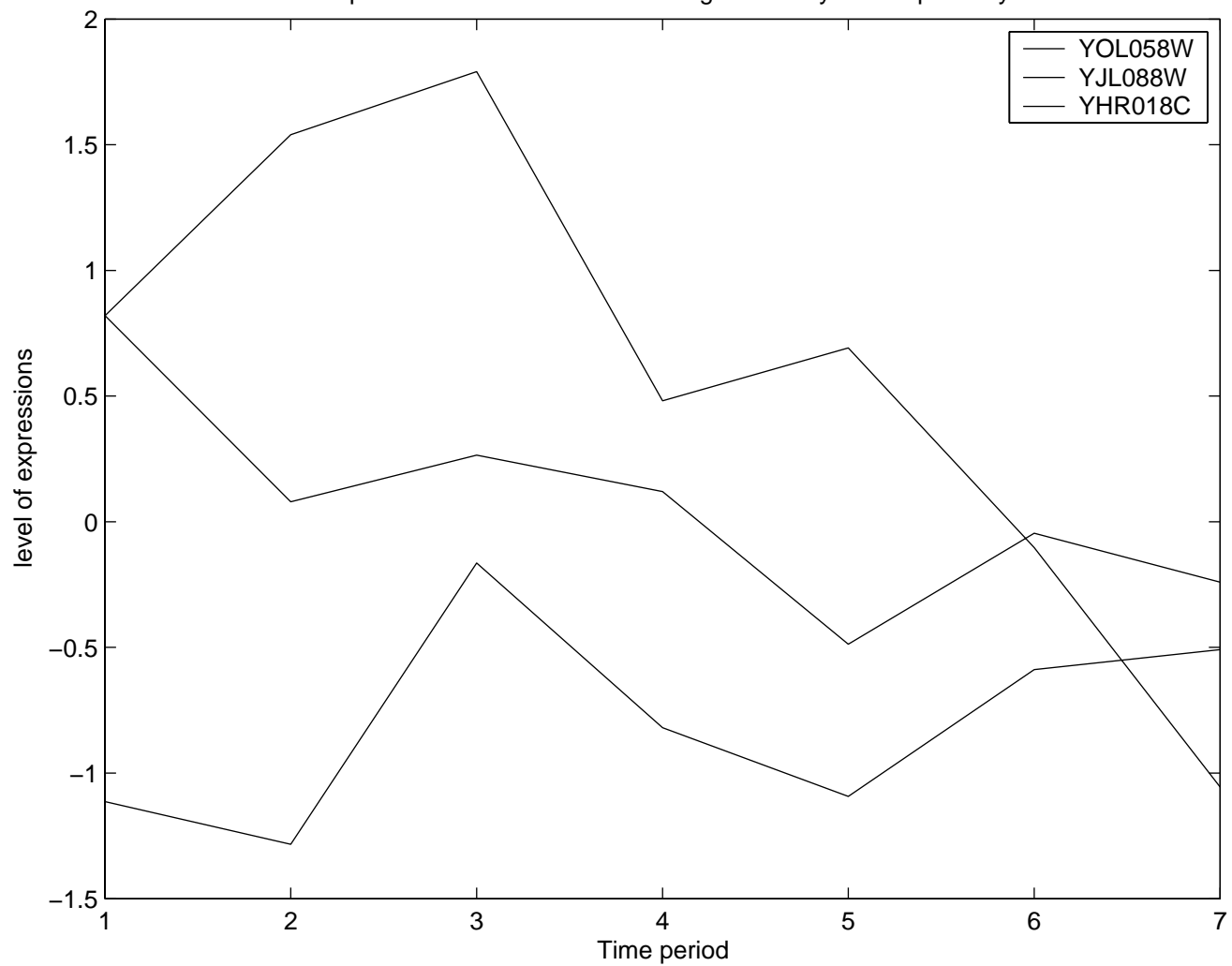
Expression of Genes involved in acetate utilization pathway



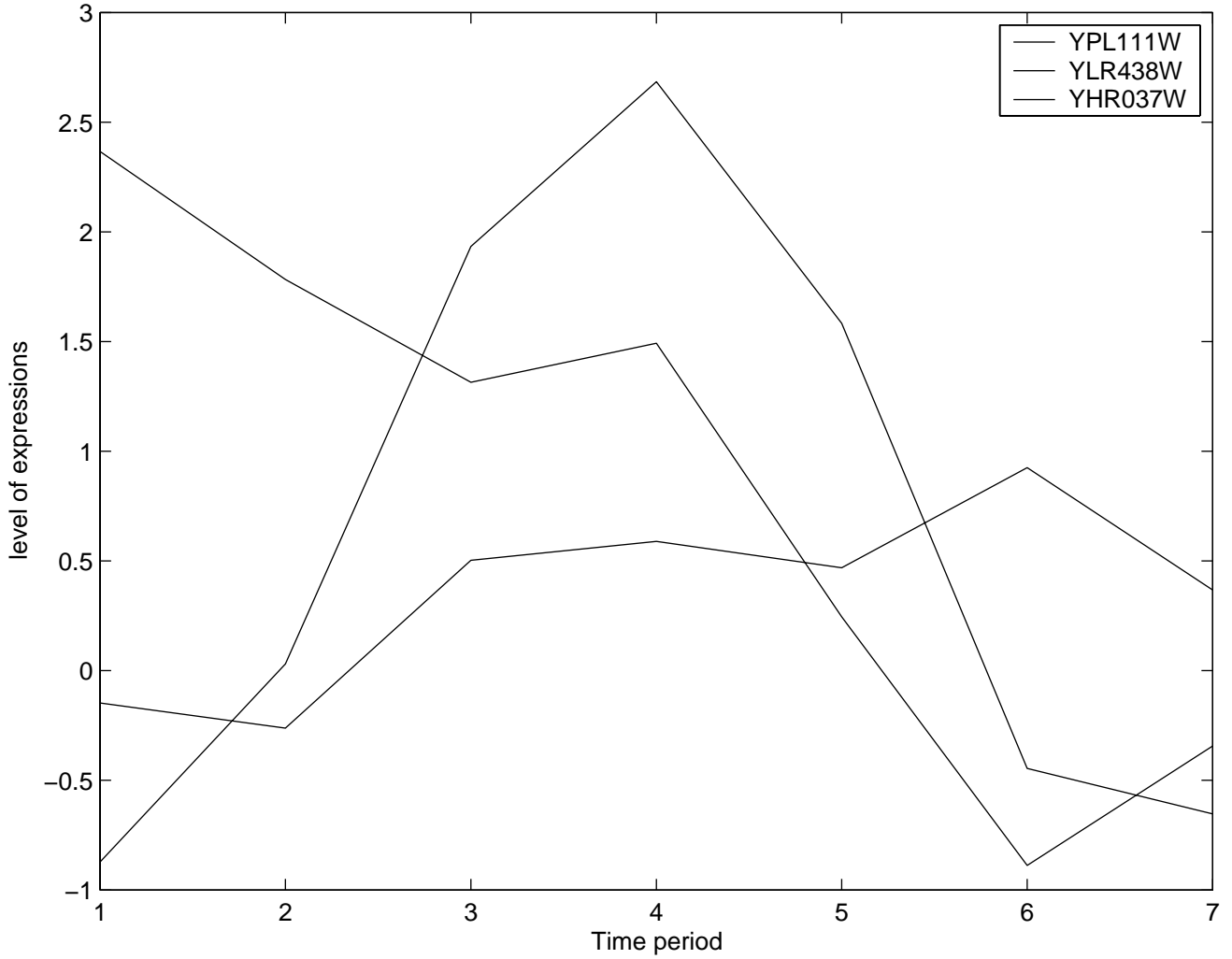
Expression of Genes involved in anaerobic glycerol catabolism pathway



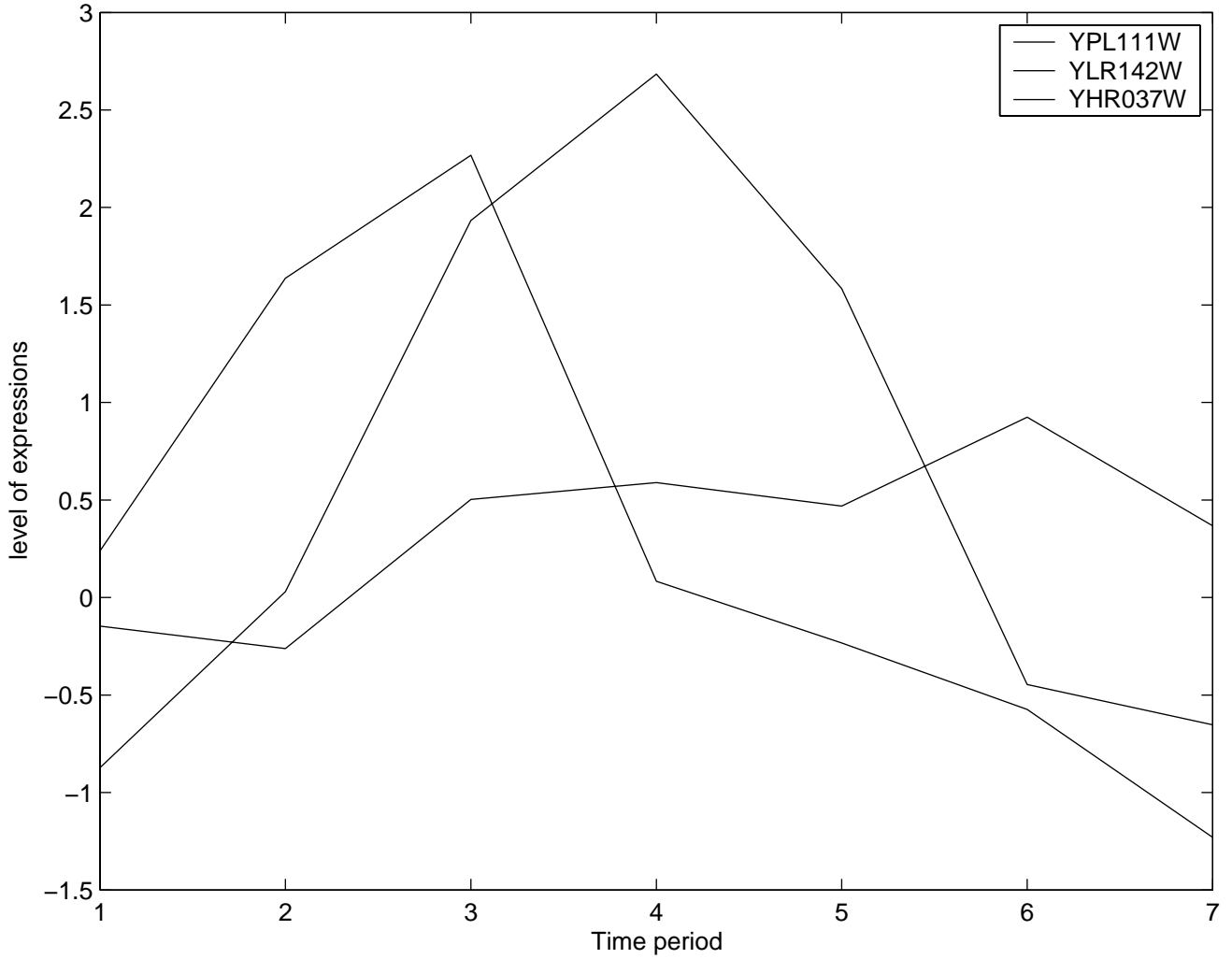
Expression of Genes involved in arginine biosynthesis pathway



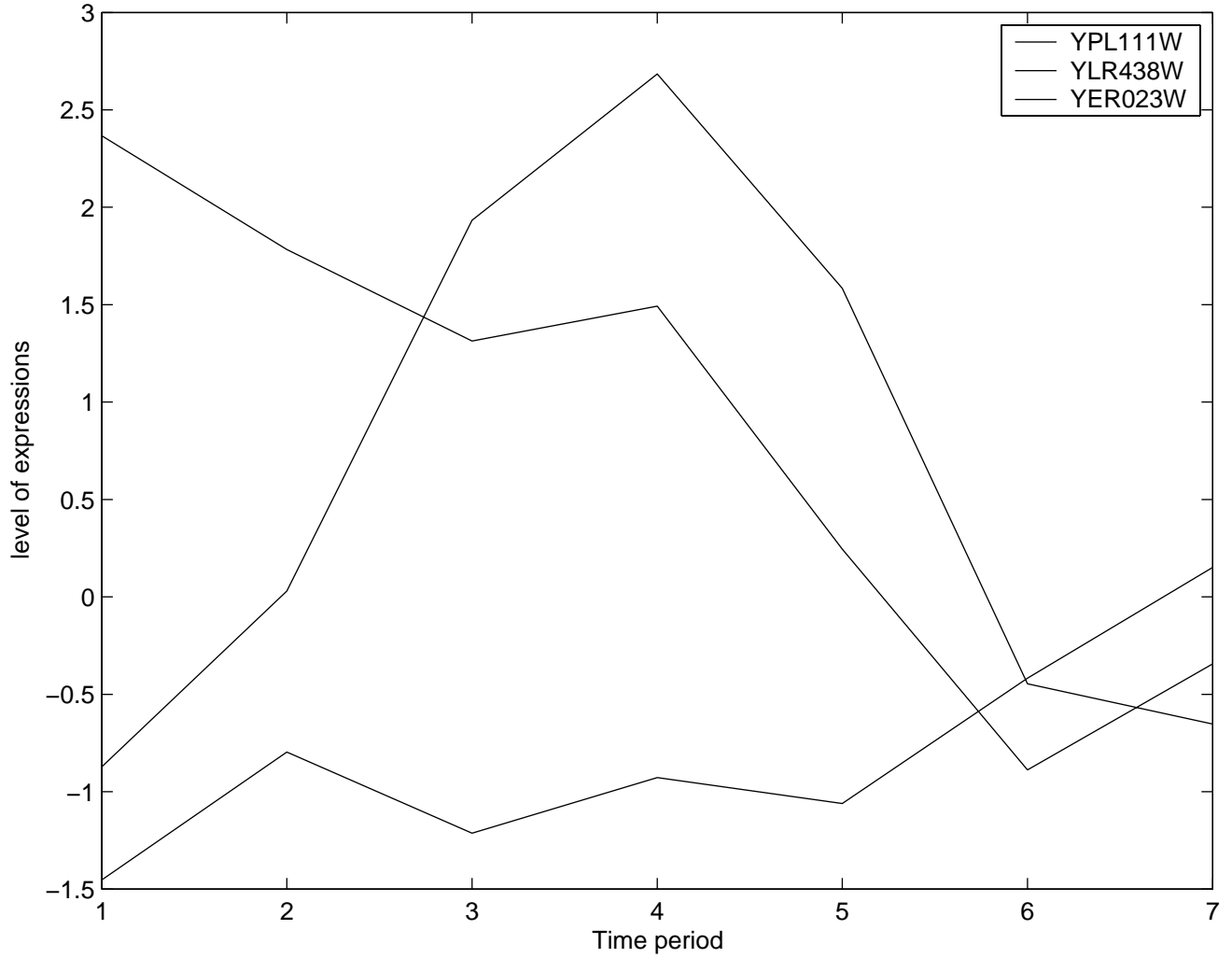
Expression of Genes involved in arginine degradation pathway



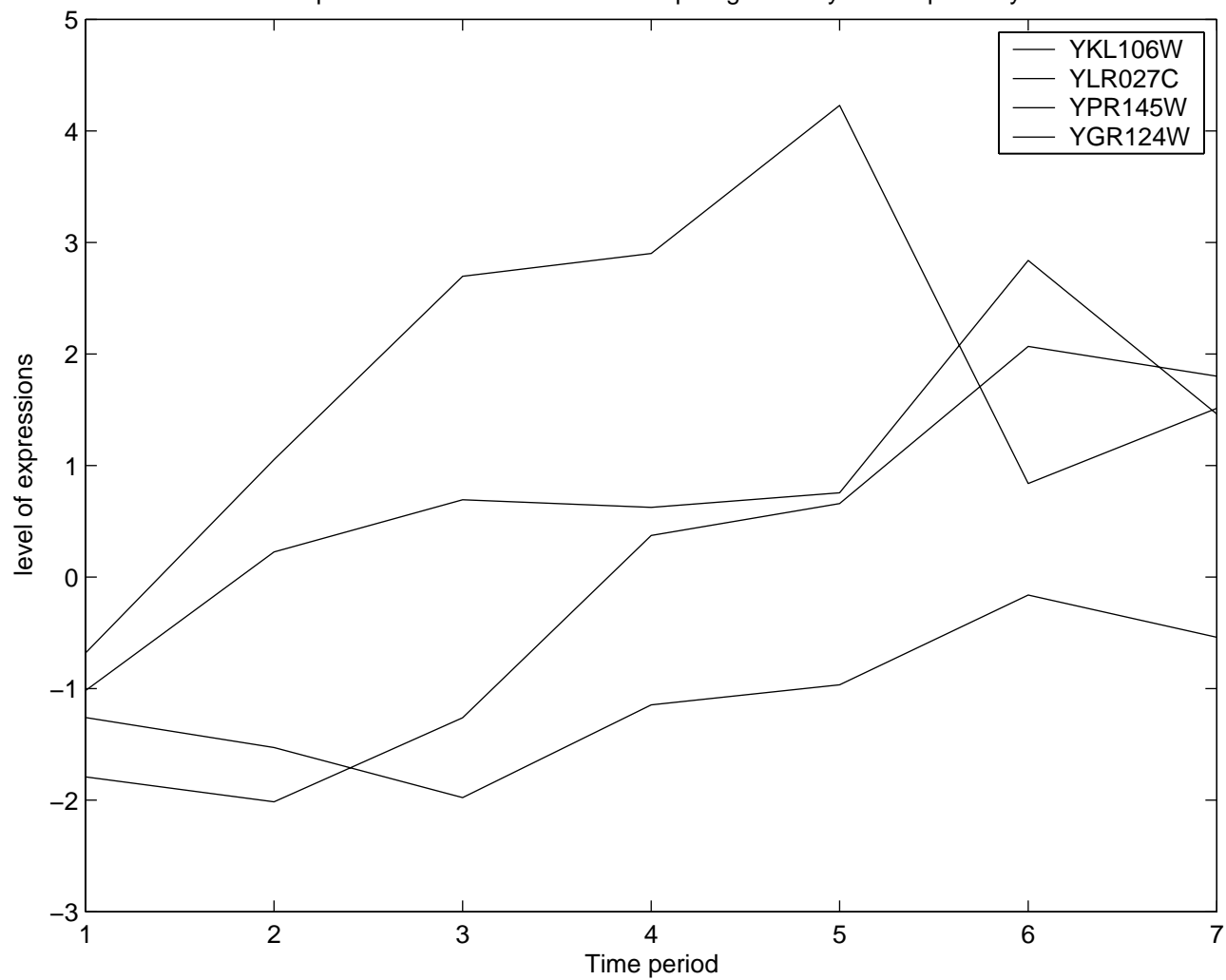
Expression of Genes involved in arginine glutamate degradation pathway



Expression of Genes involved in arginine proline degradation pathway

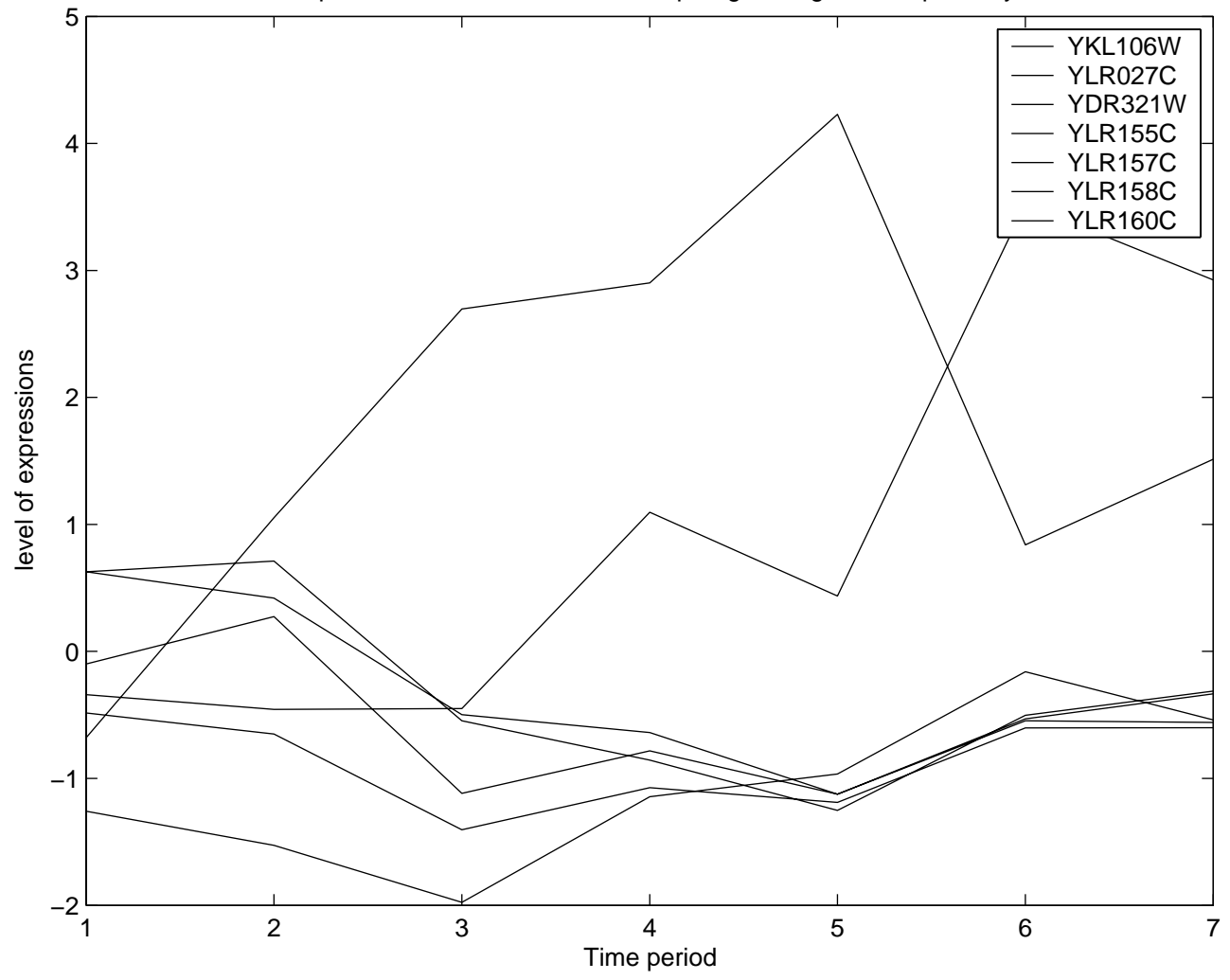


Expression of Genes involved in asparagine biosynthesis pathway

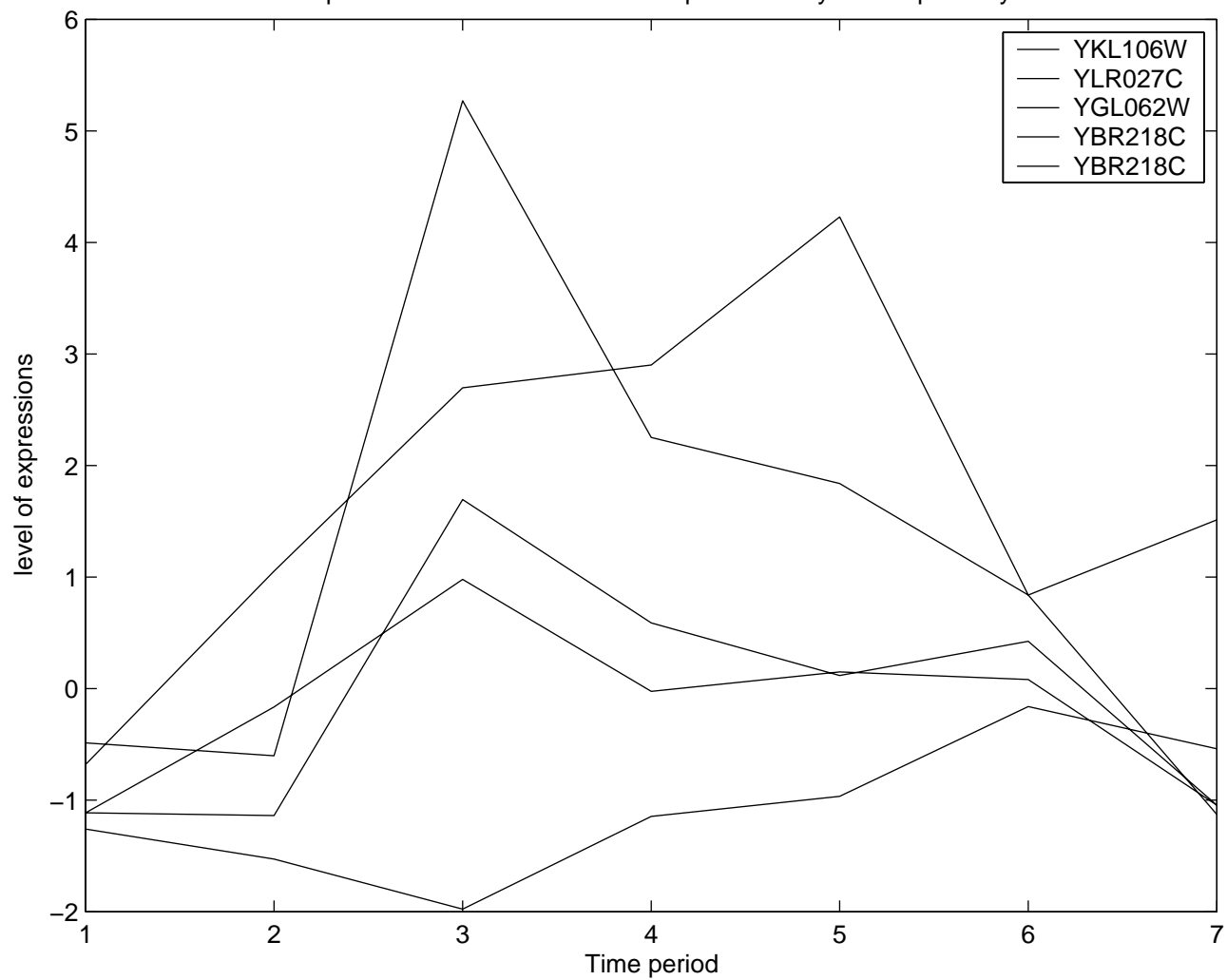




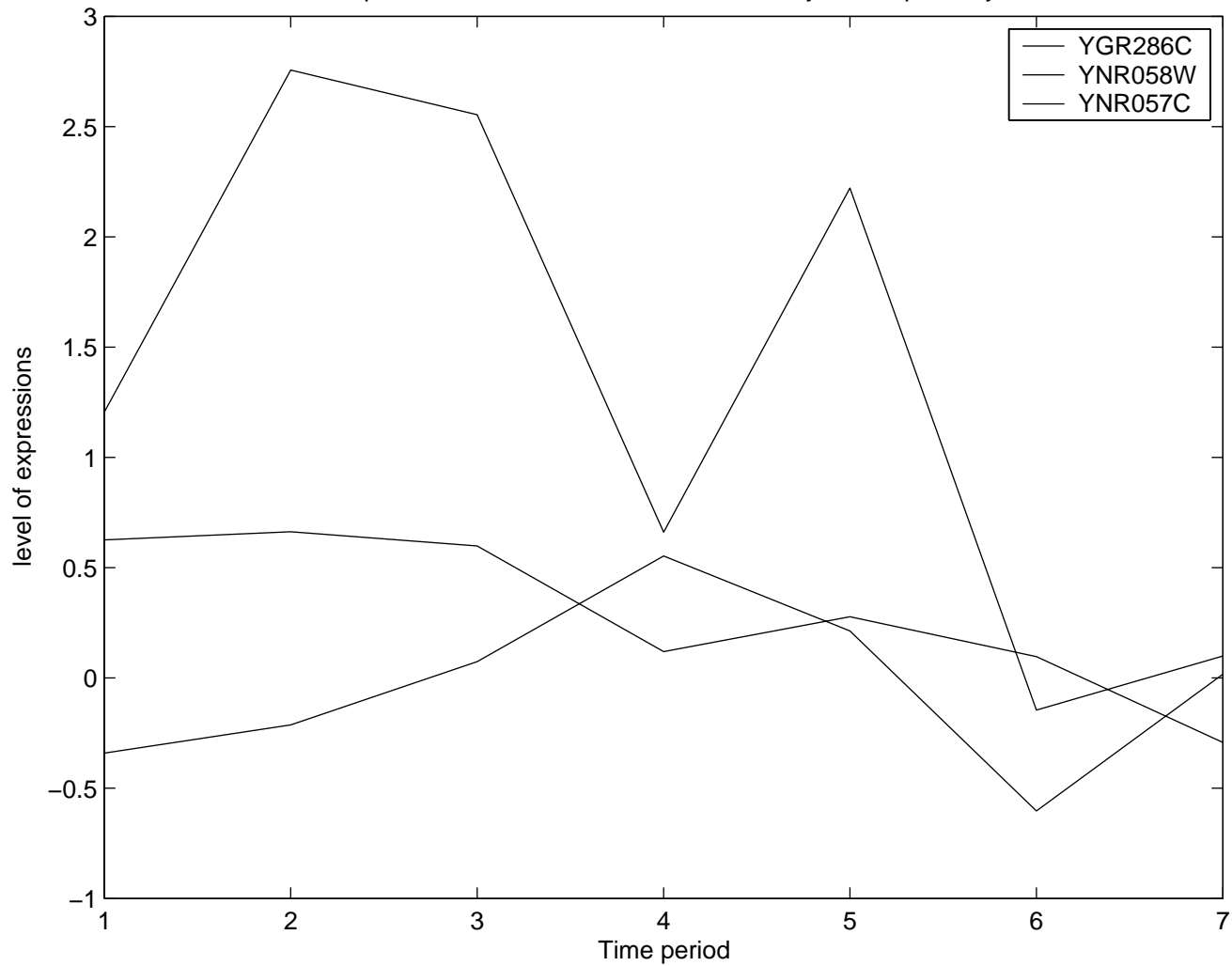
Expression of Genes involved in asparagine degradation pathway



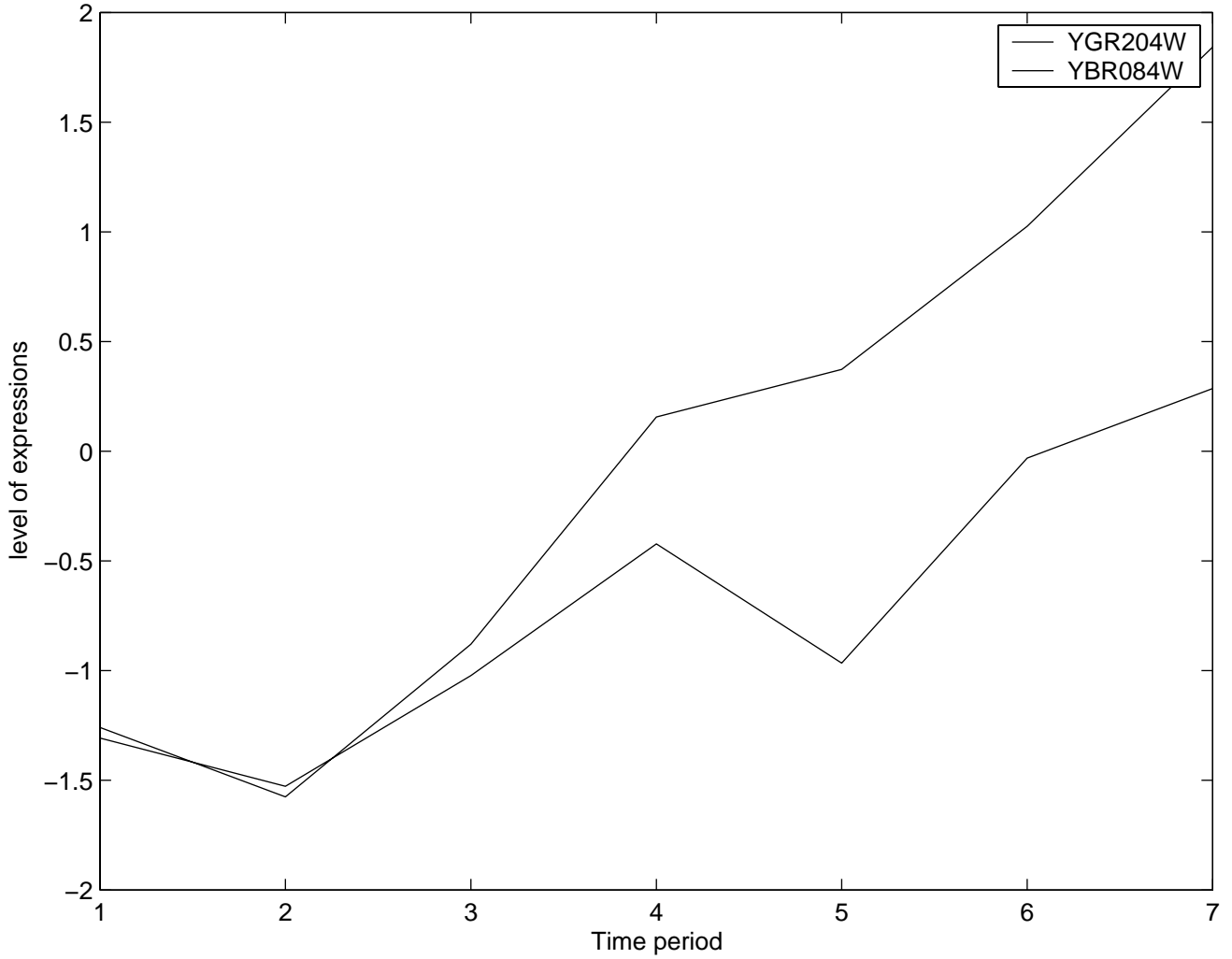
Expression of Genes involved in aspartate biosynthesis pathway



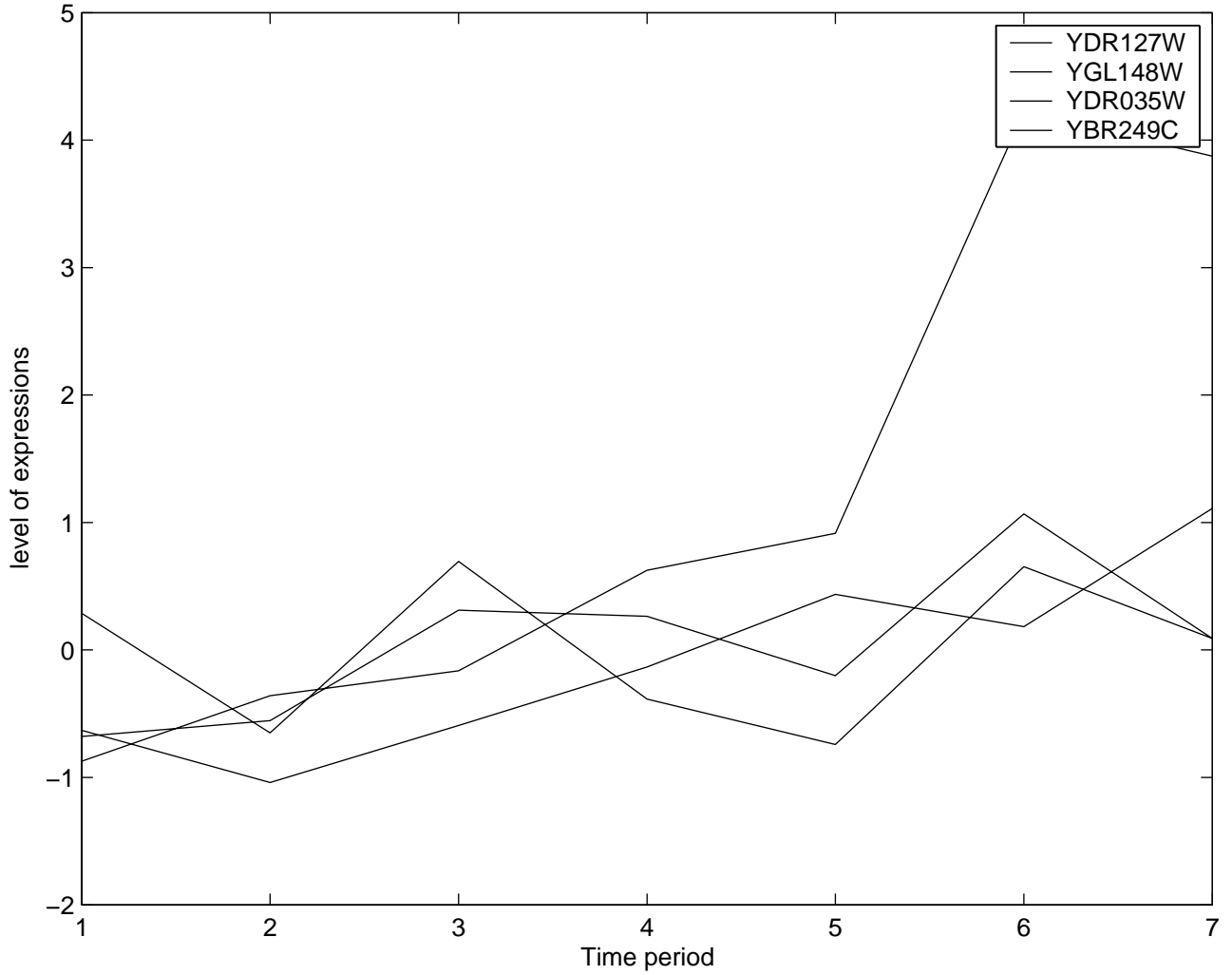
Expression of Genes involved in biotin biosynthesis pathway



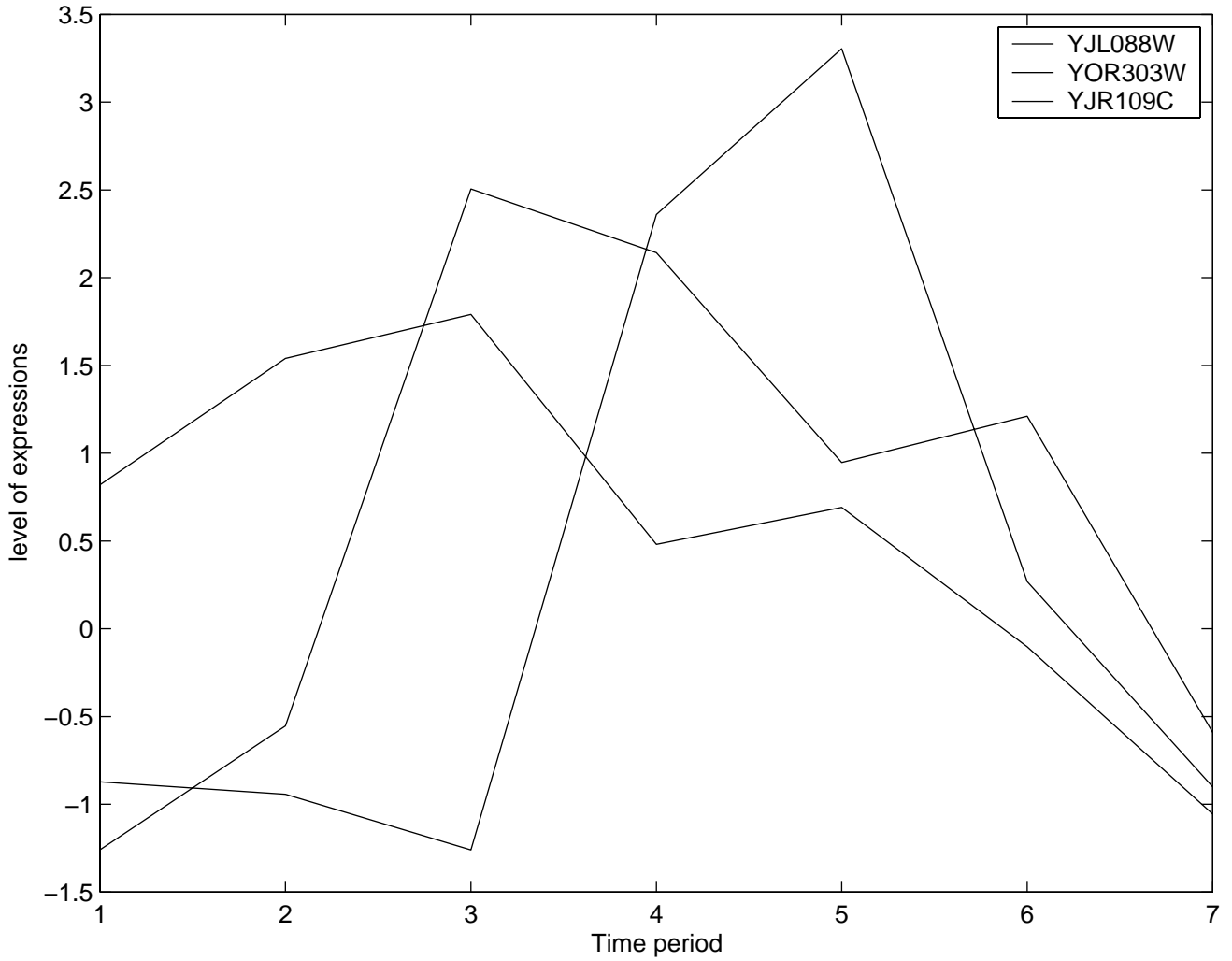
Expression of Genes involved in carbon monoxide dehydrogenase pathway



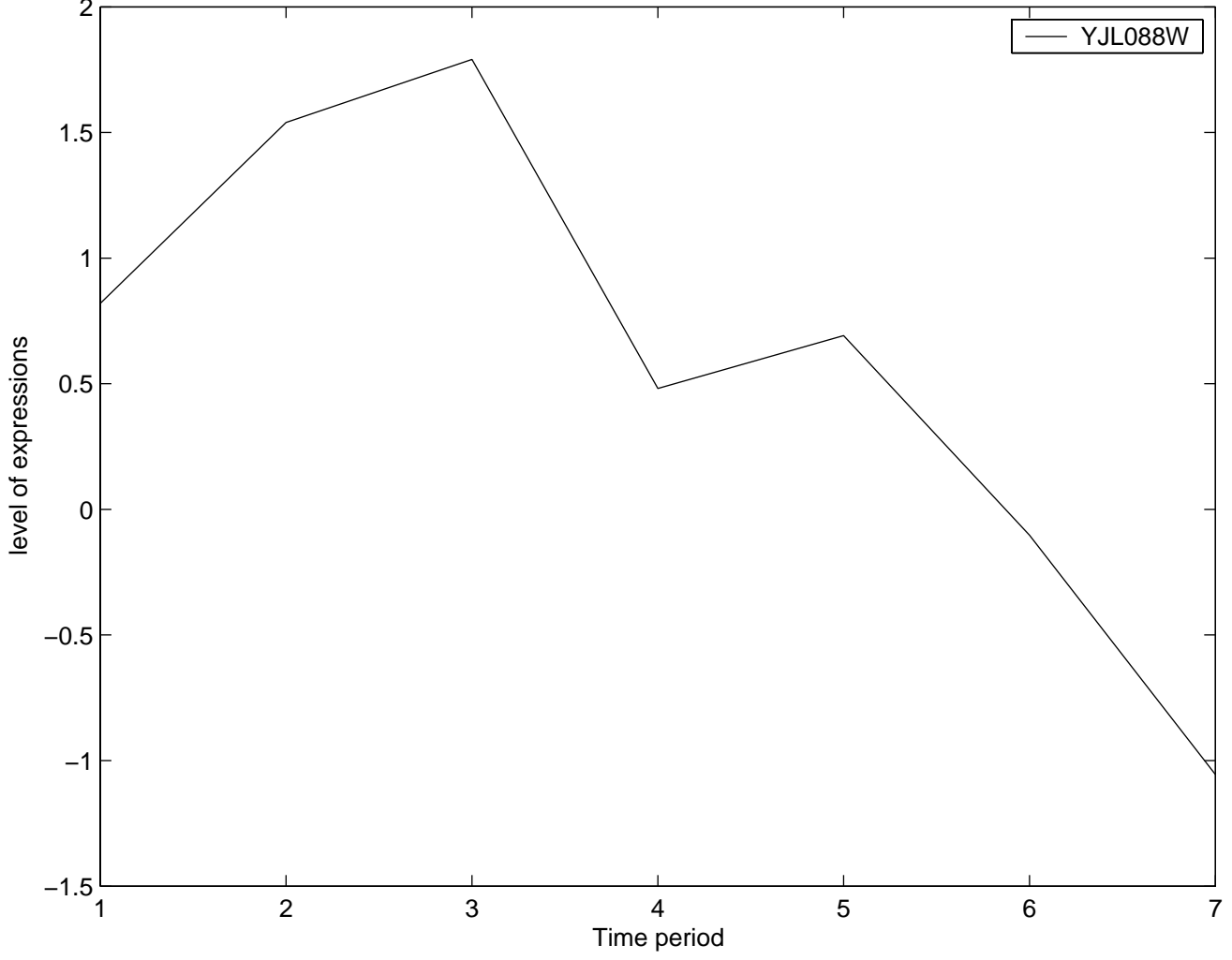
Expression of Genes involved in chorismate biosynthesis pathway



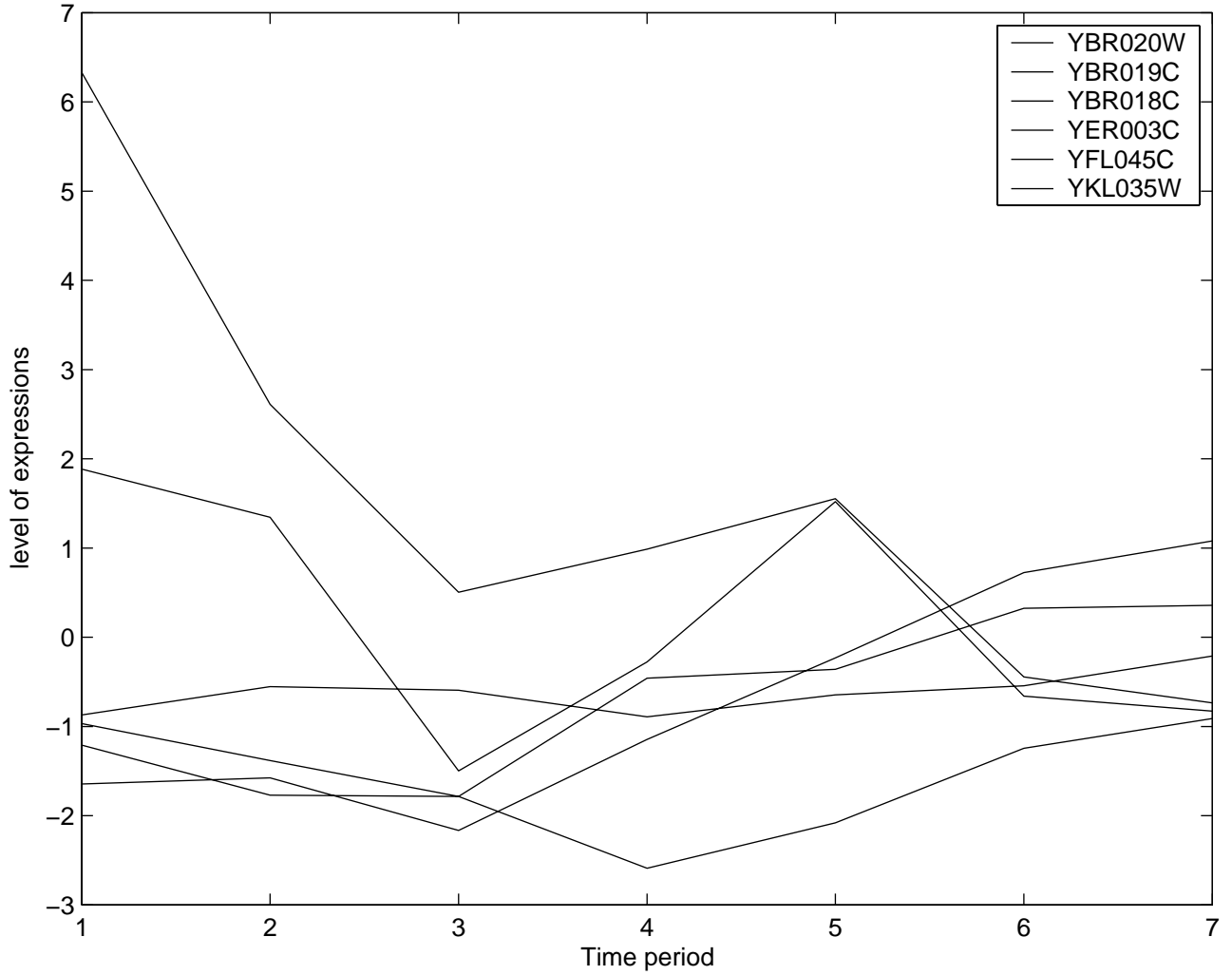
Expression of Genes involved incitrulline biosynthesis pathway



Expression of Genes involved incitrulline degradation pathway

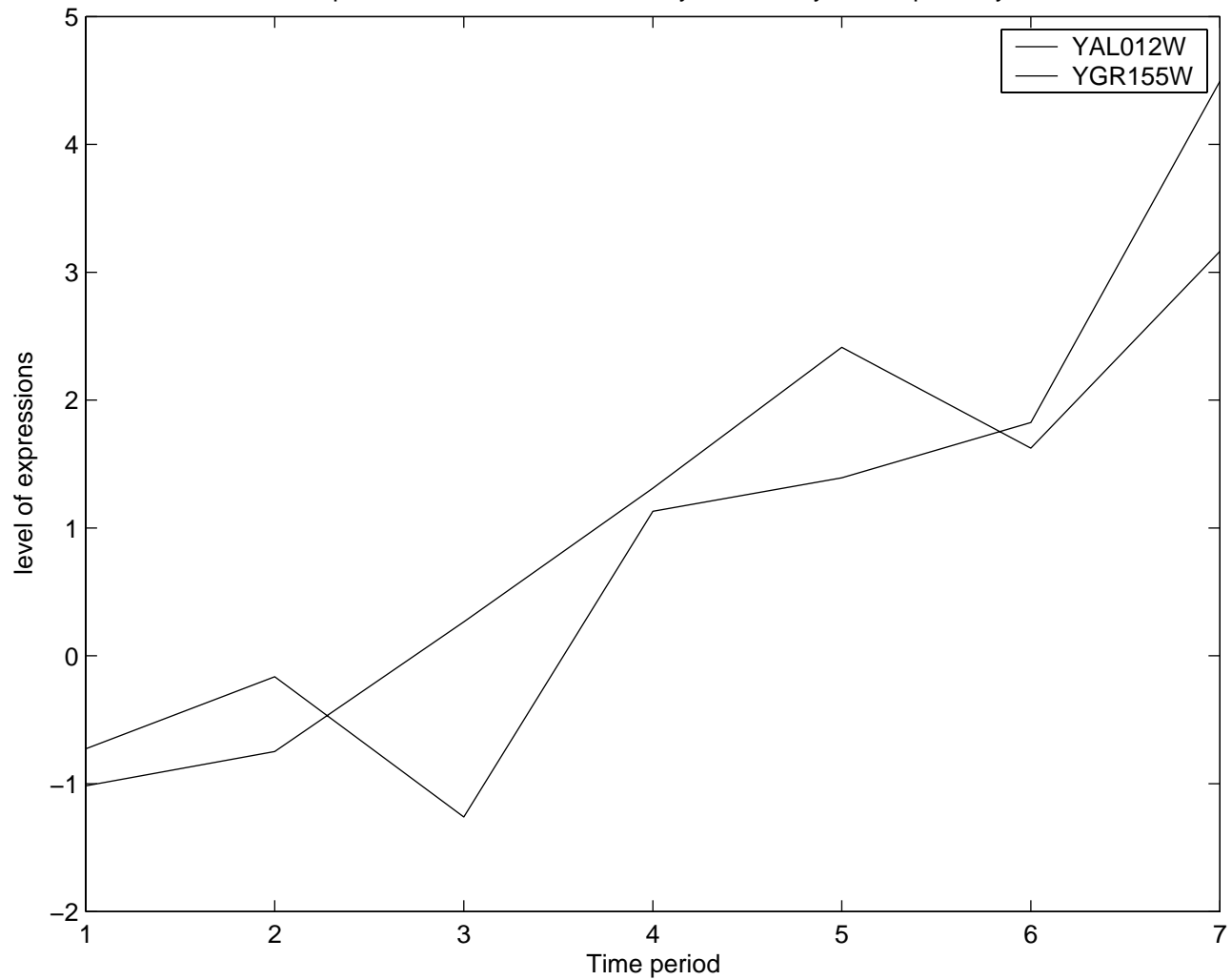


Expression of Genes involved in lactic acid building blocks biosynthesis pathway

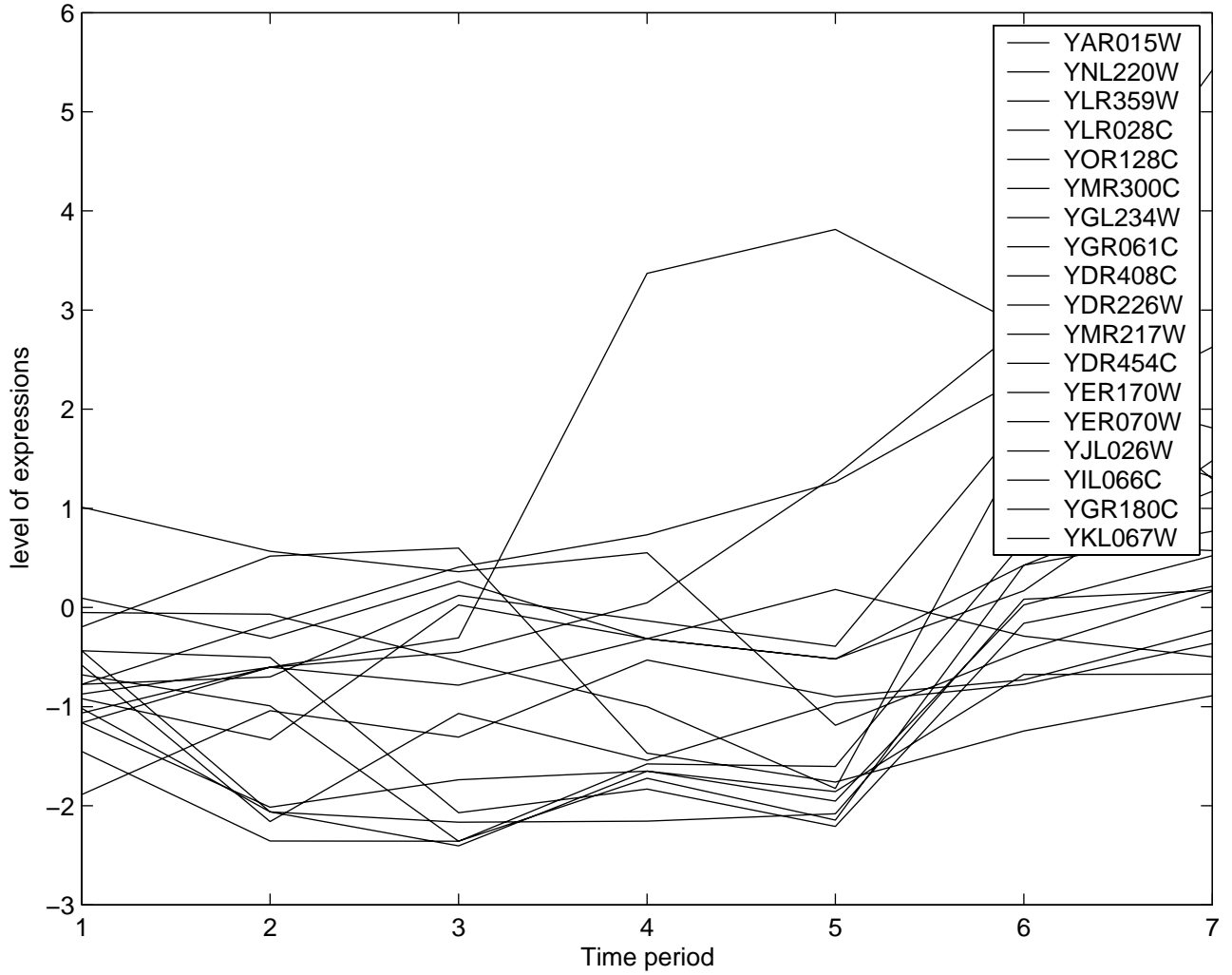




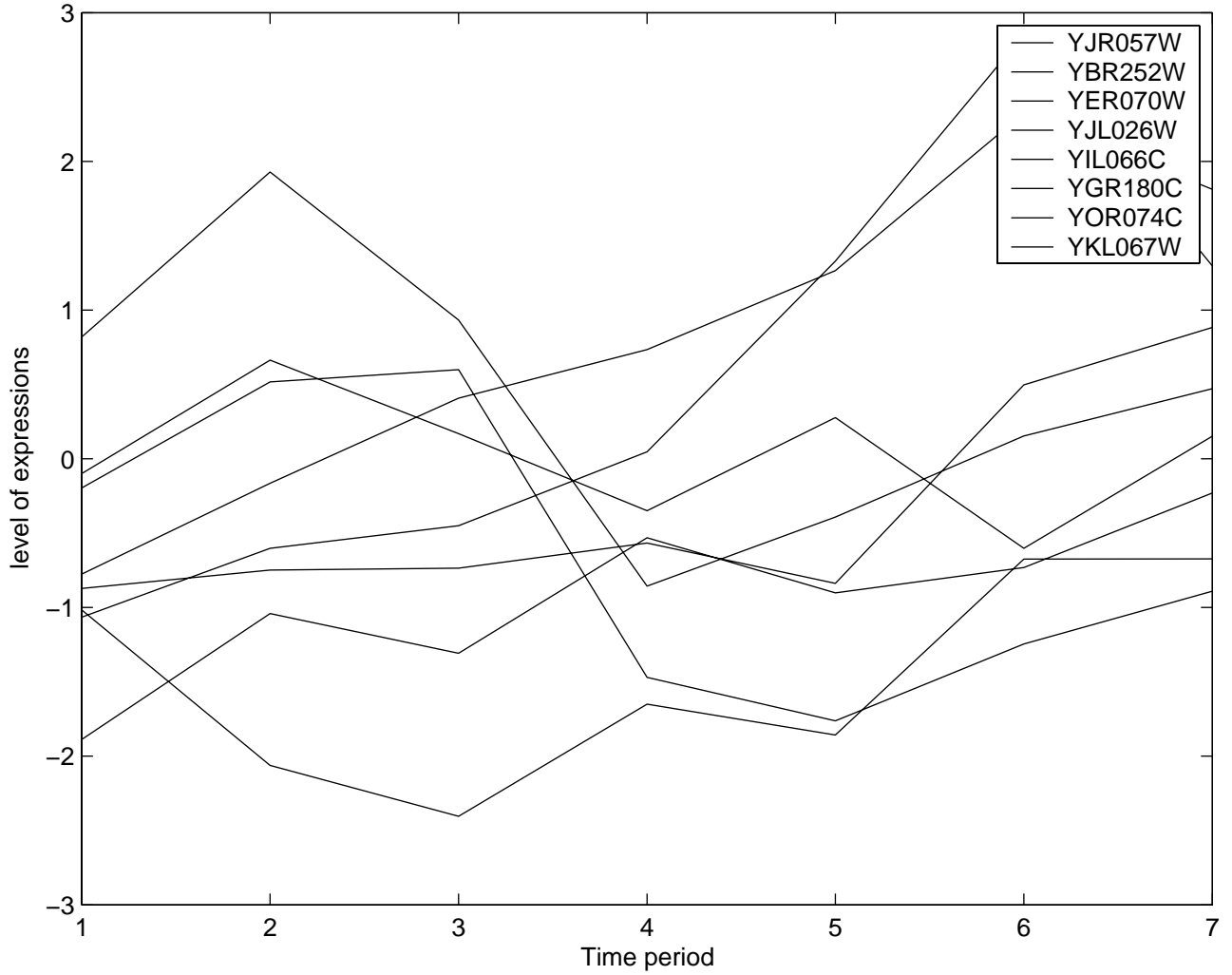
Expression of Genes involved incysteine biosynthesis pathway



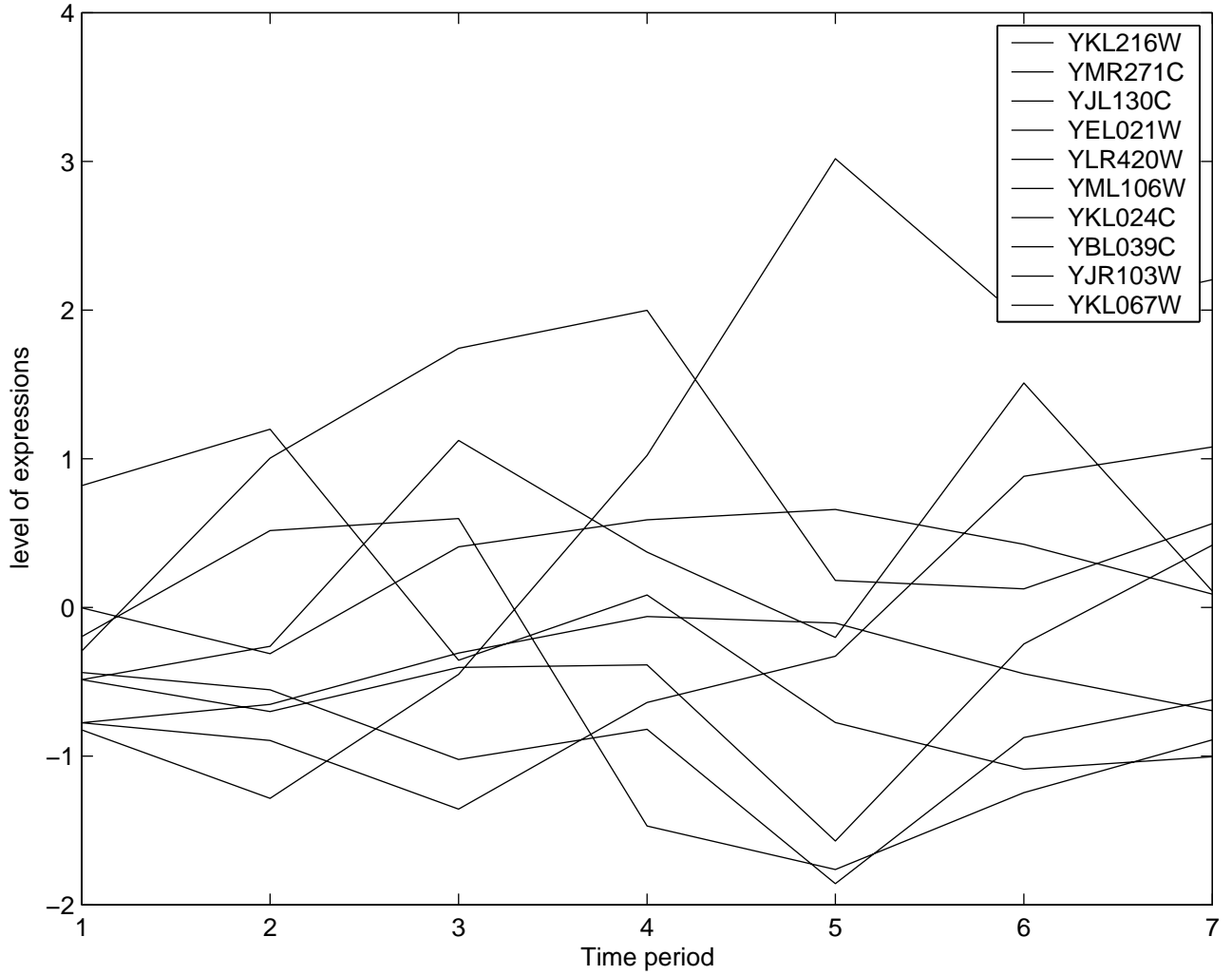
Expression of Genes involved inde novo biosynthesis of purine nucleotides pathway



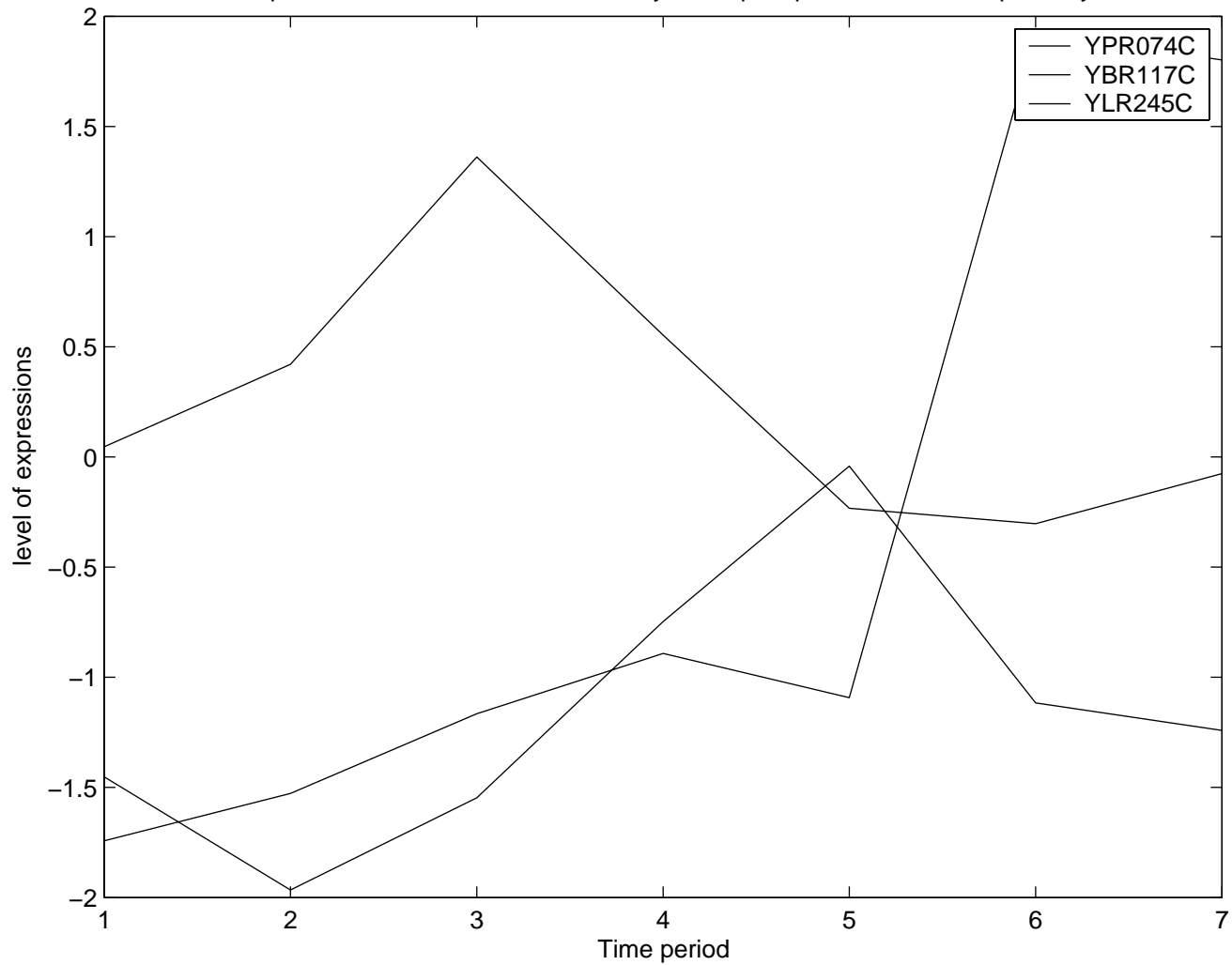
Expression of Genes involved inde novo biosynthesis of pyrimidine deoxyribonucleotides pathway



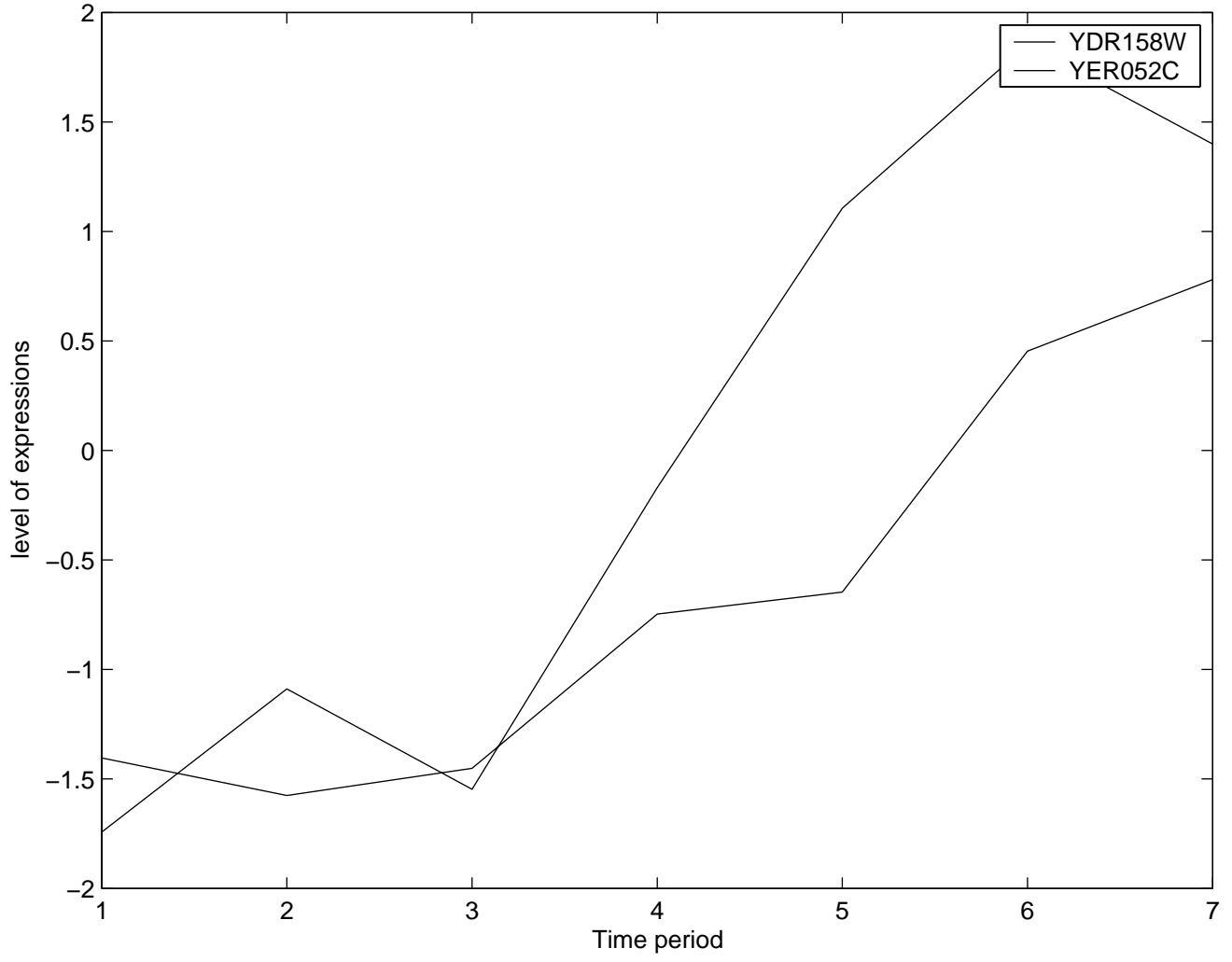
Expression of Genes involved inde novo biosynthesis of pyrimidine ribonucleotides pathway



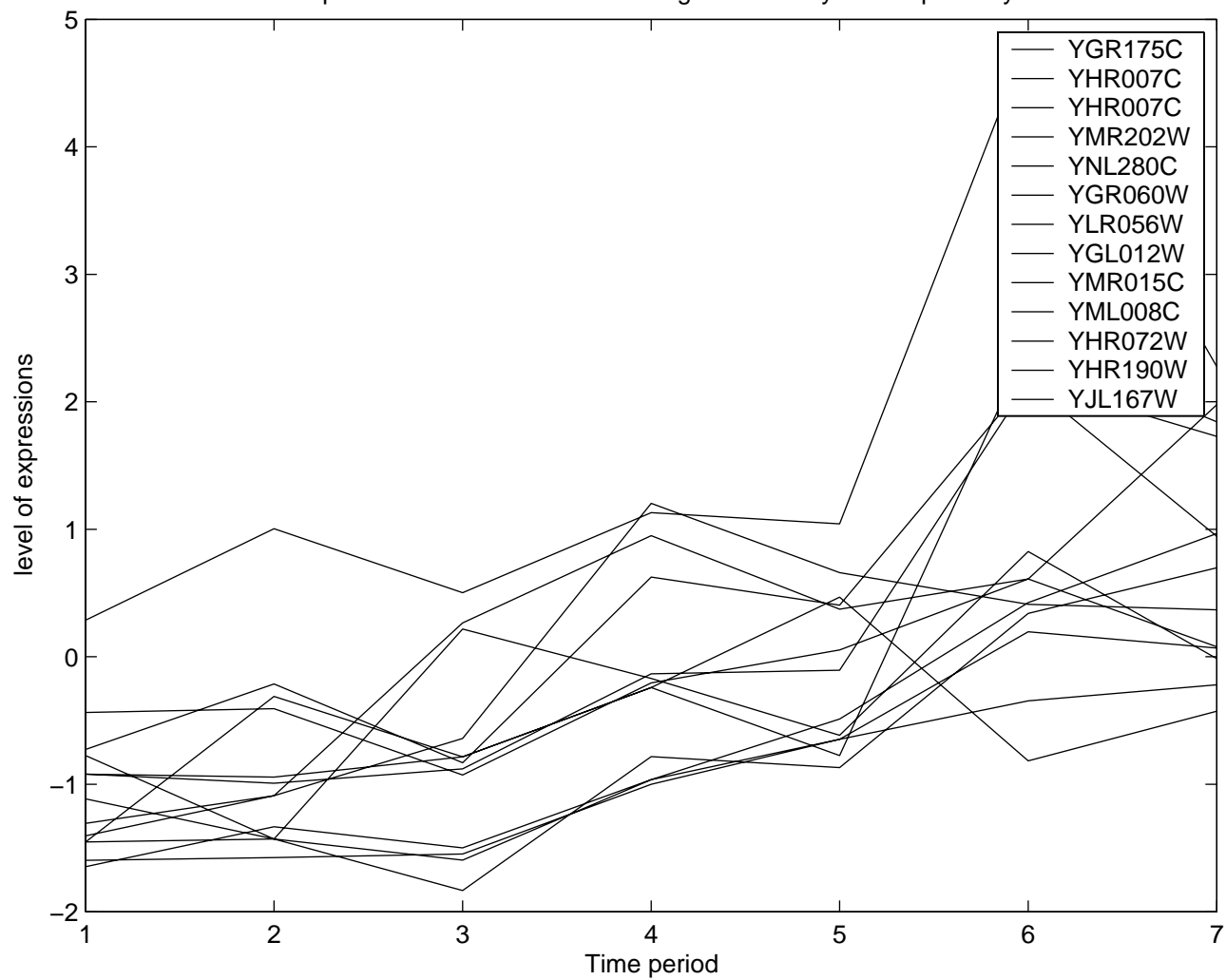
Expression of Genes involved indeoxyribose phosphate metabolism pathway



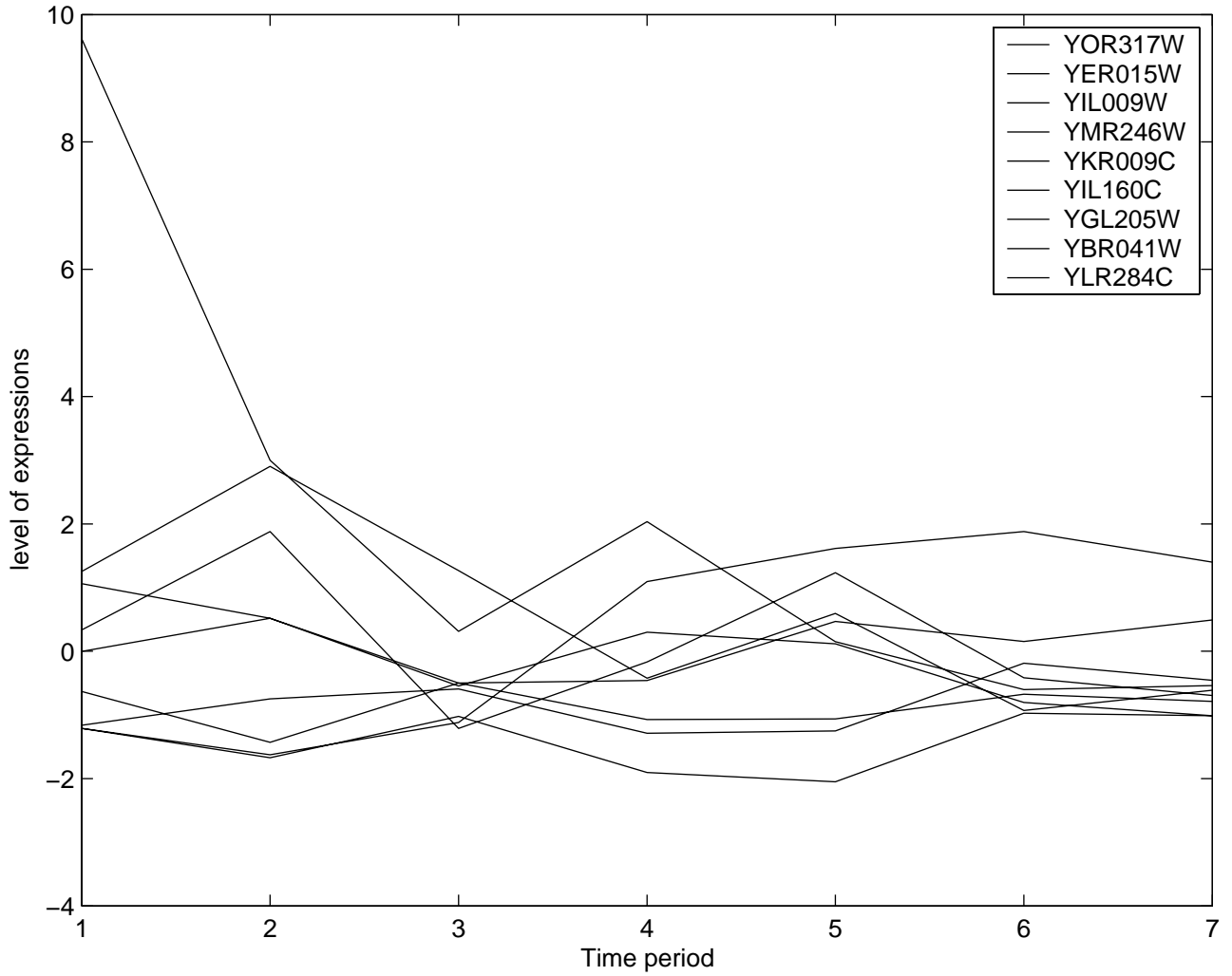
Expression of Genes involved incoctoine synthesis pathway



Expression of Genes involved in ergosterol biosynthesis pathway

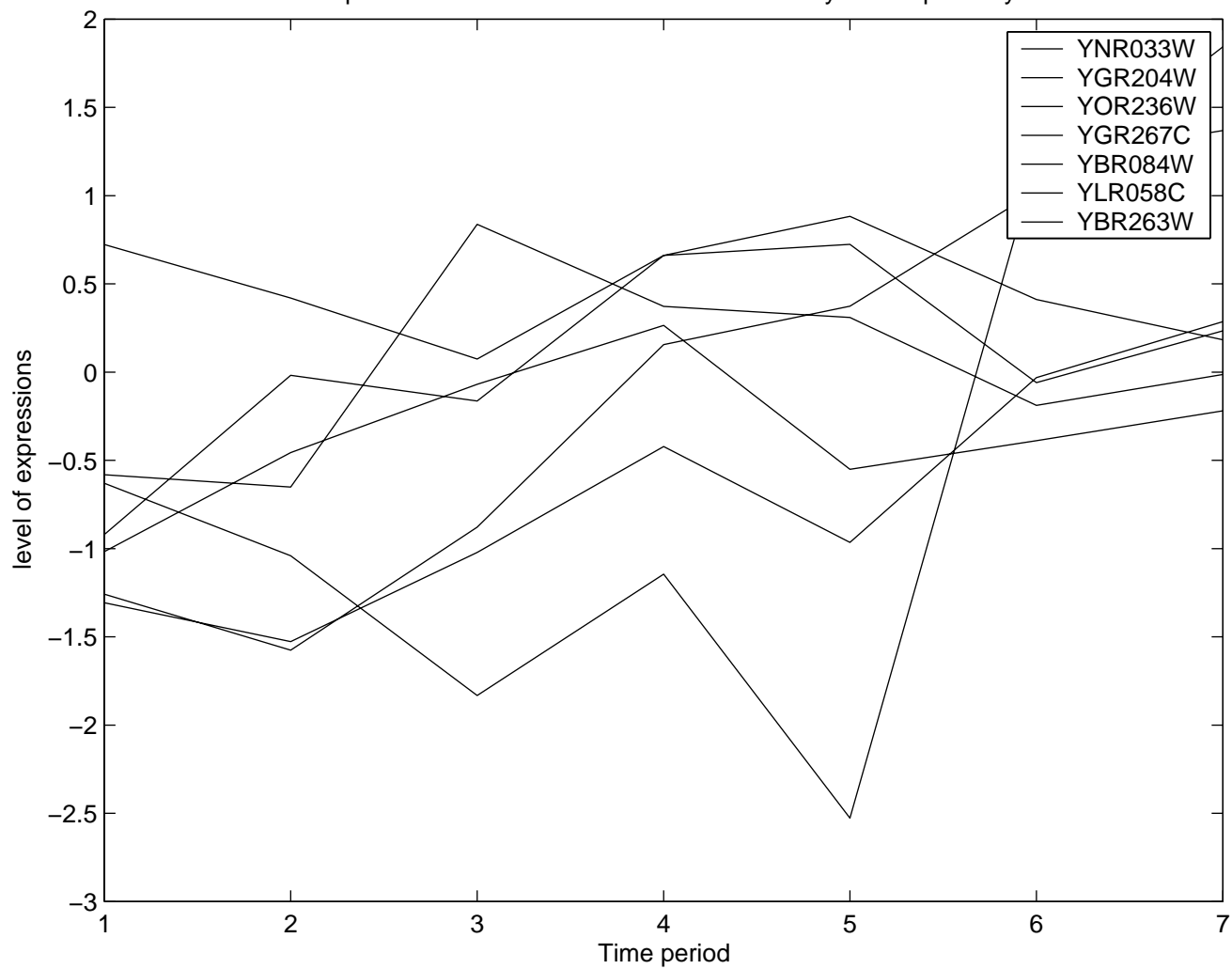


Expression of Genes involved infatty acid oxidation pathway pathway

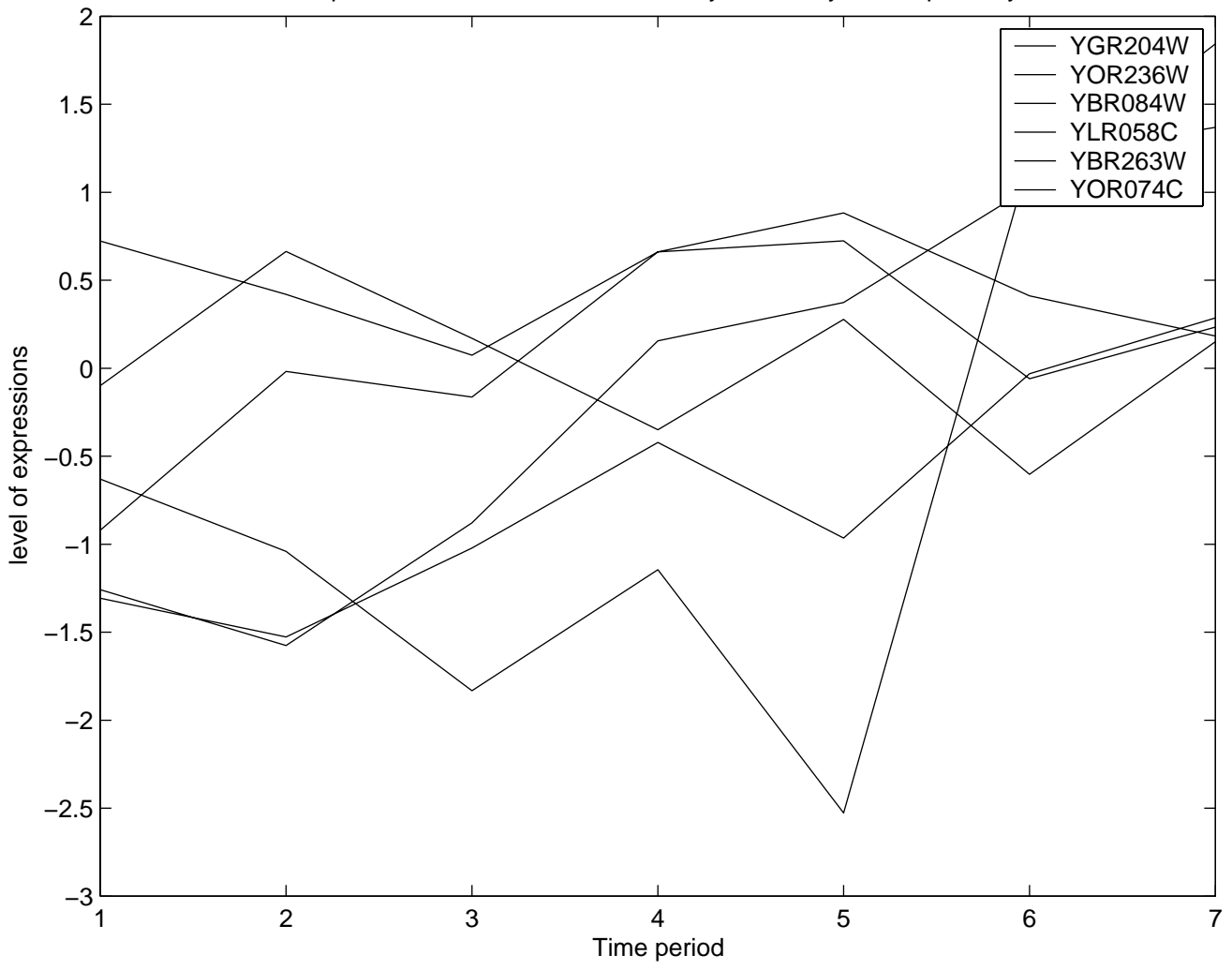




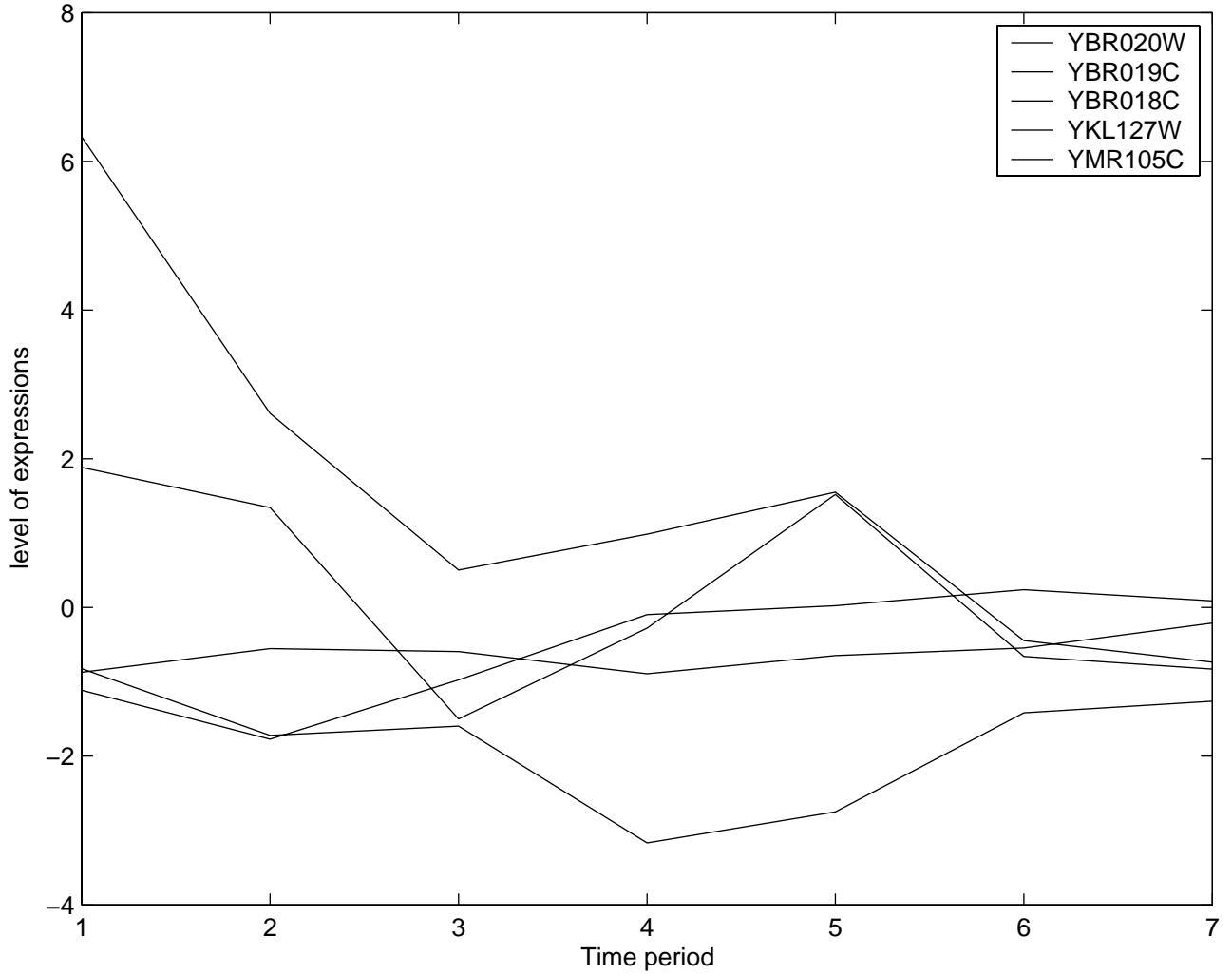
Expression of Genes involved infolic acid biosynthesis pathway



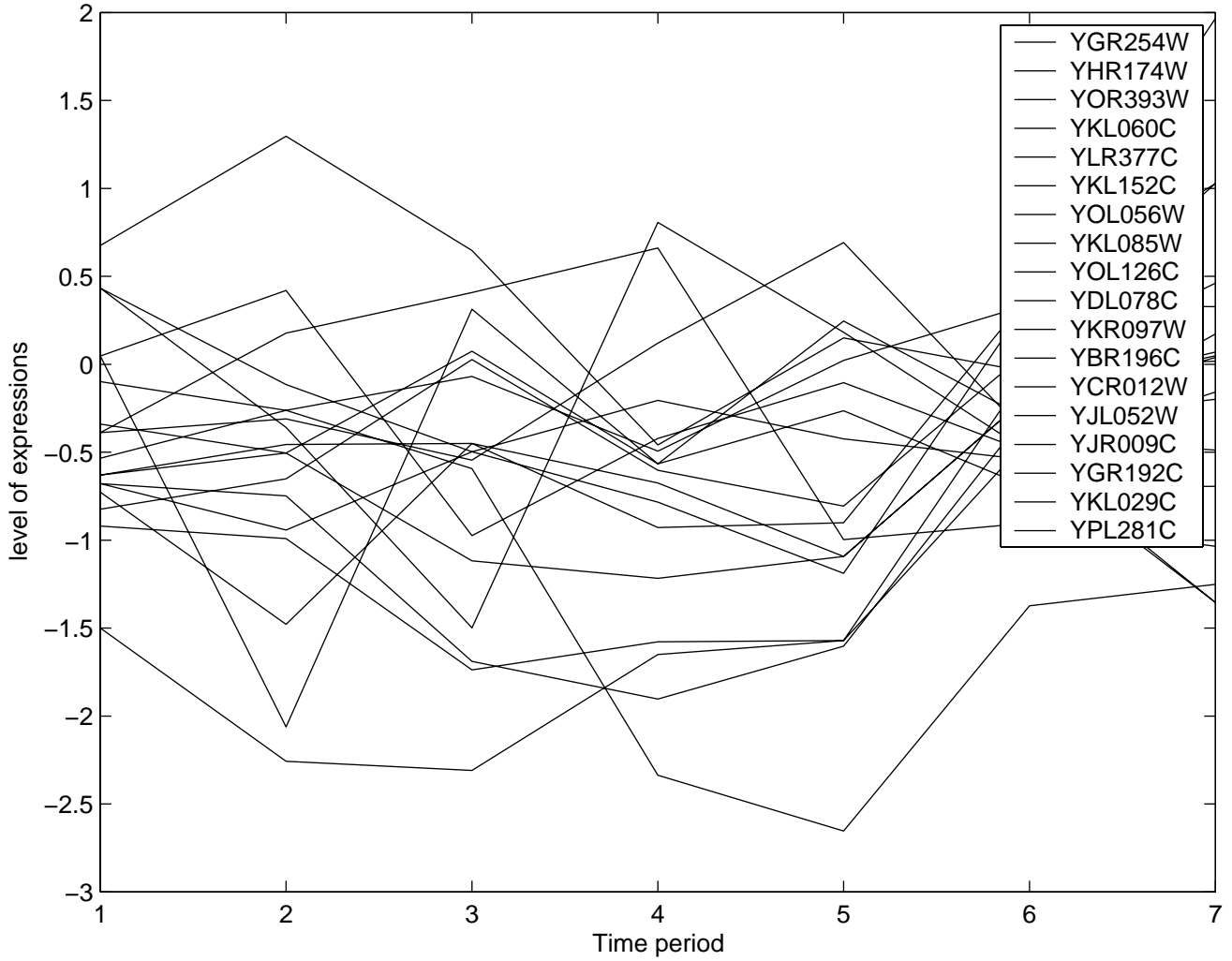
Expression of Genes involved in formylTHF biosynthesis pathway



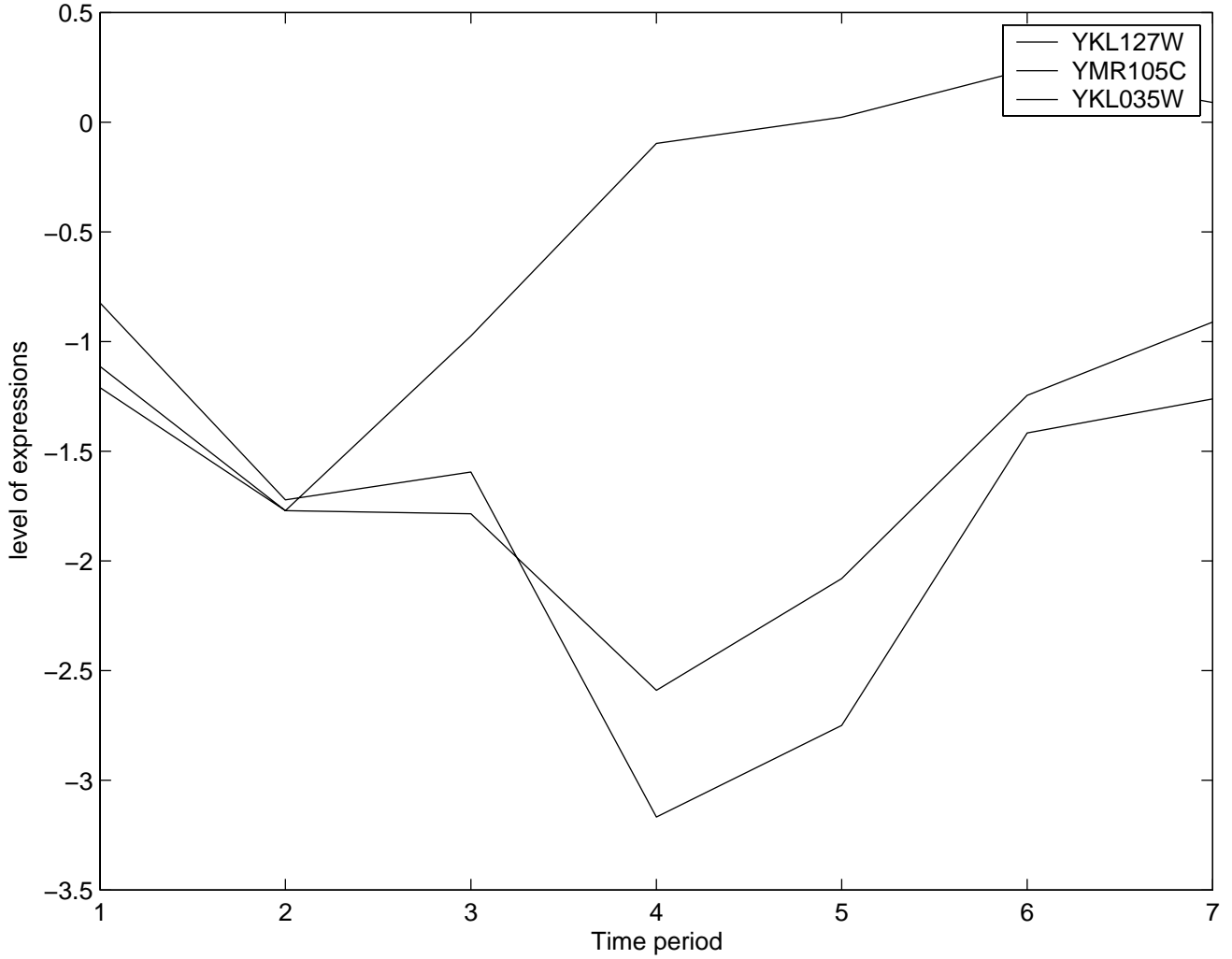
Expression of Genes involved in galactose metabolism pathway



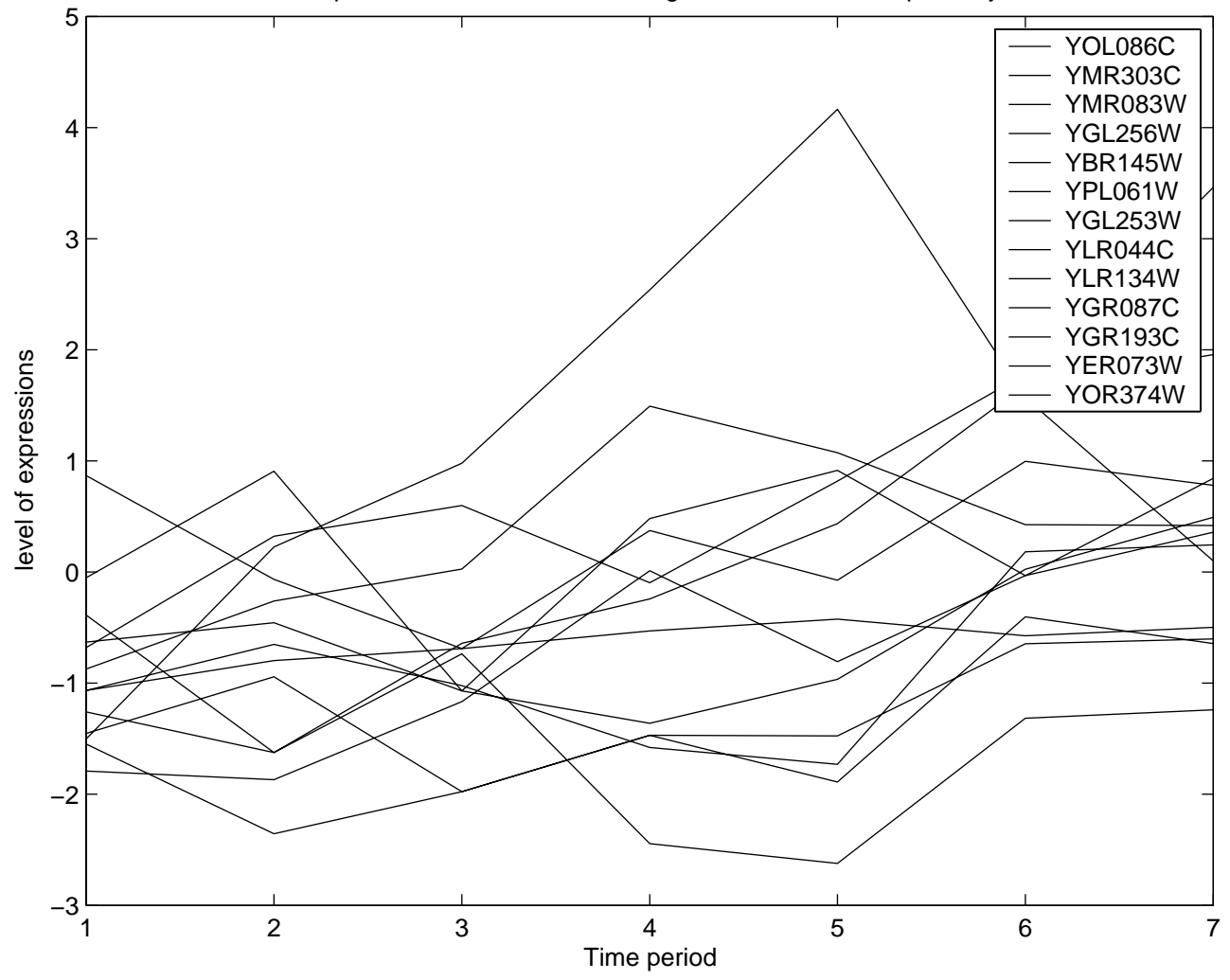
Expression of Genes involved ingluconeogenesis pathway



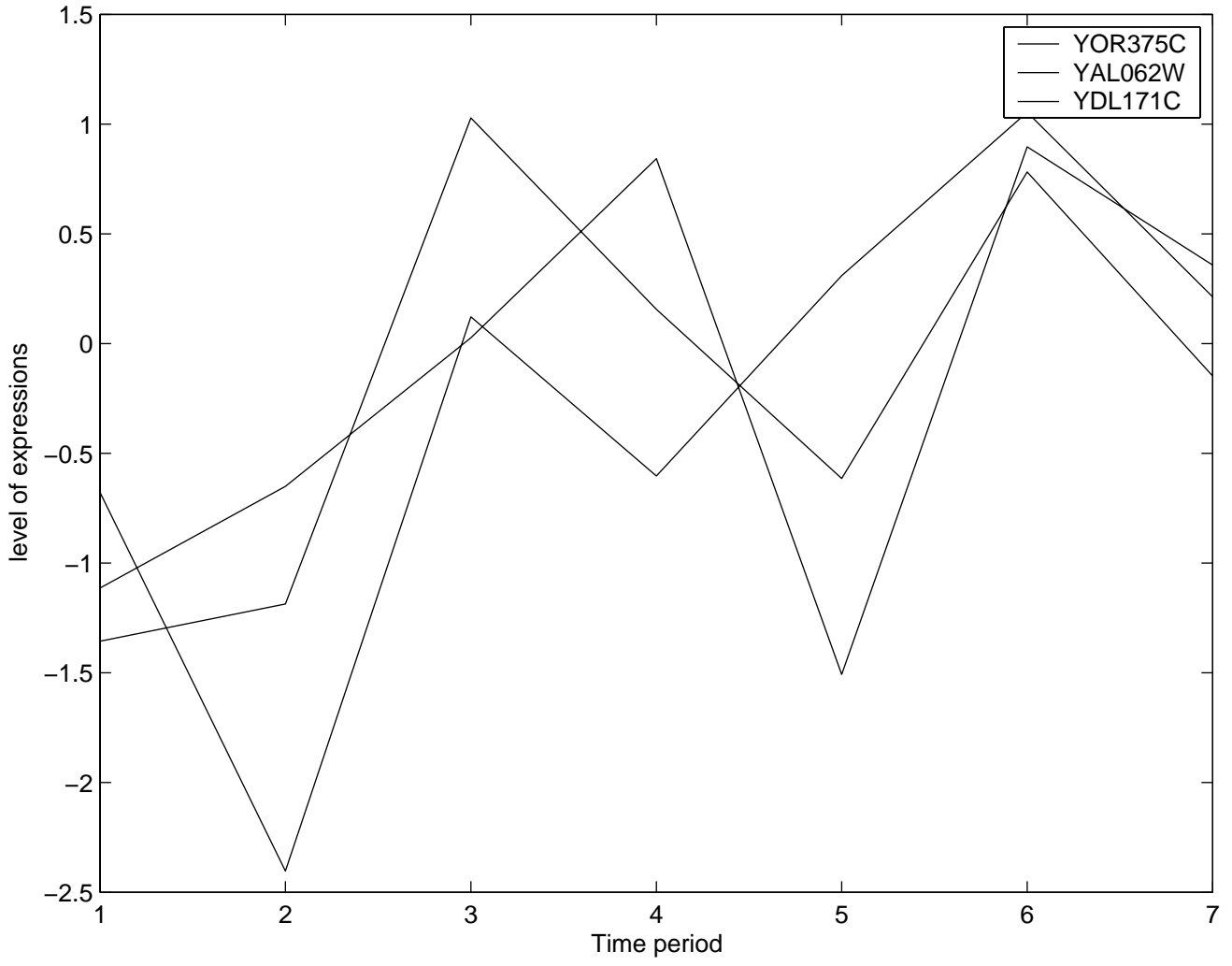
Expression of Genes involved in glucose 1-phosphate metabolism pathway



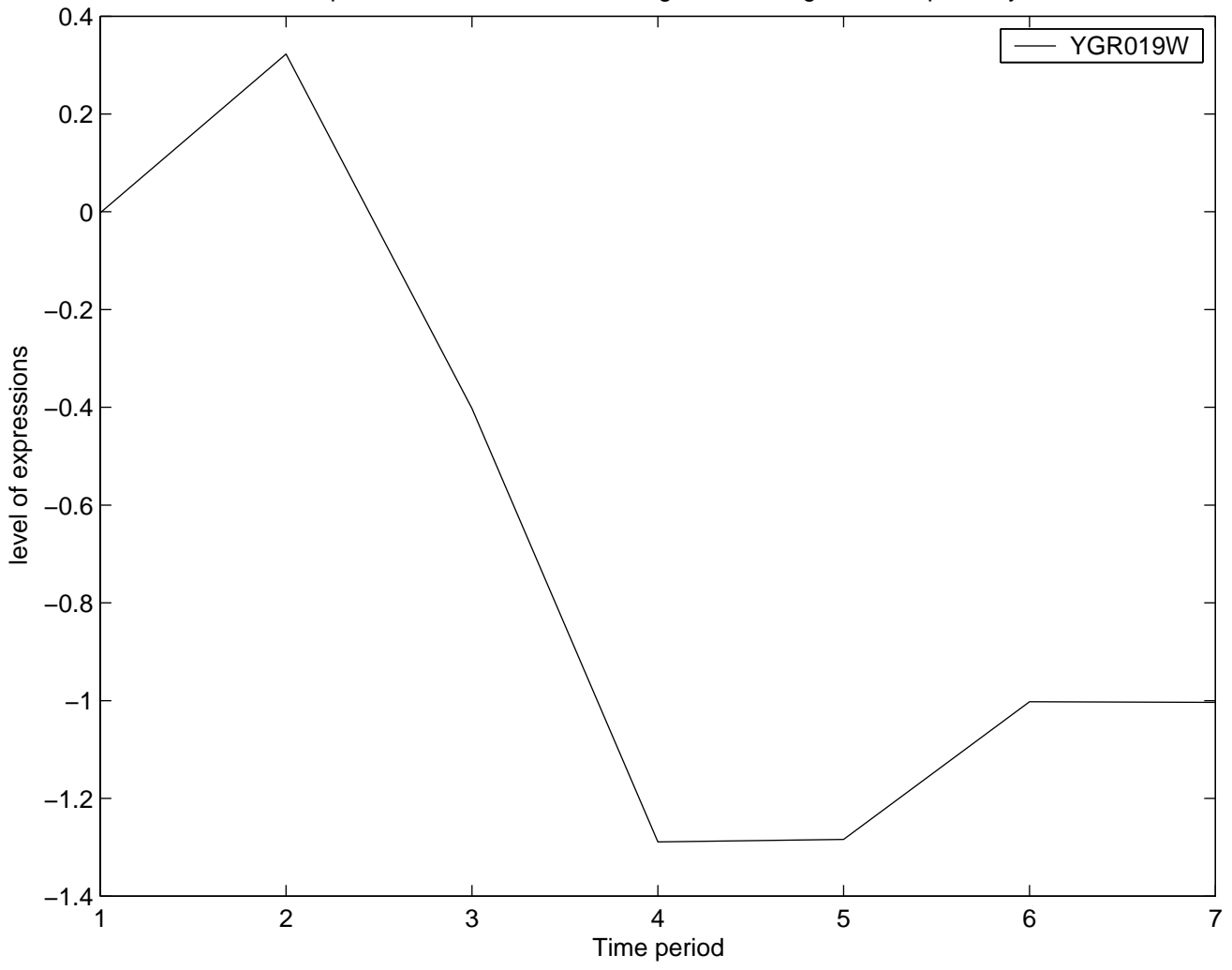
Expression of Genes involved in glucose fermentation pathway



Expression of Genes involved in glutamate biosynthesis pathway

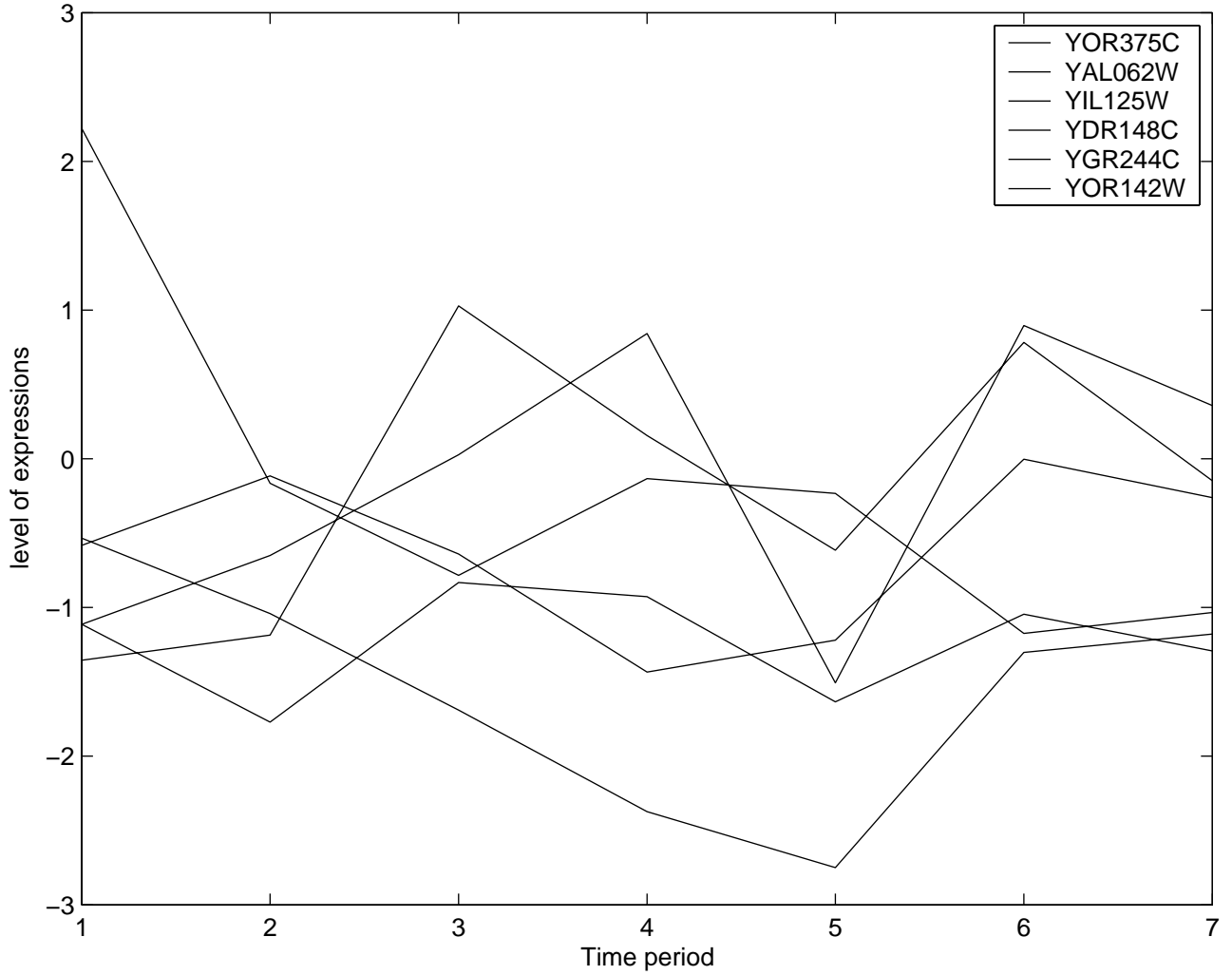


Expression of Genes involved in glutamate degradation I pathway

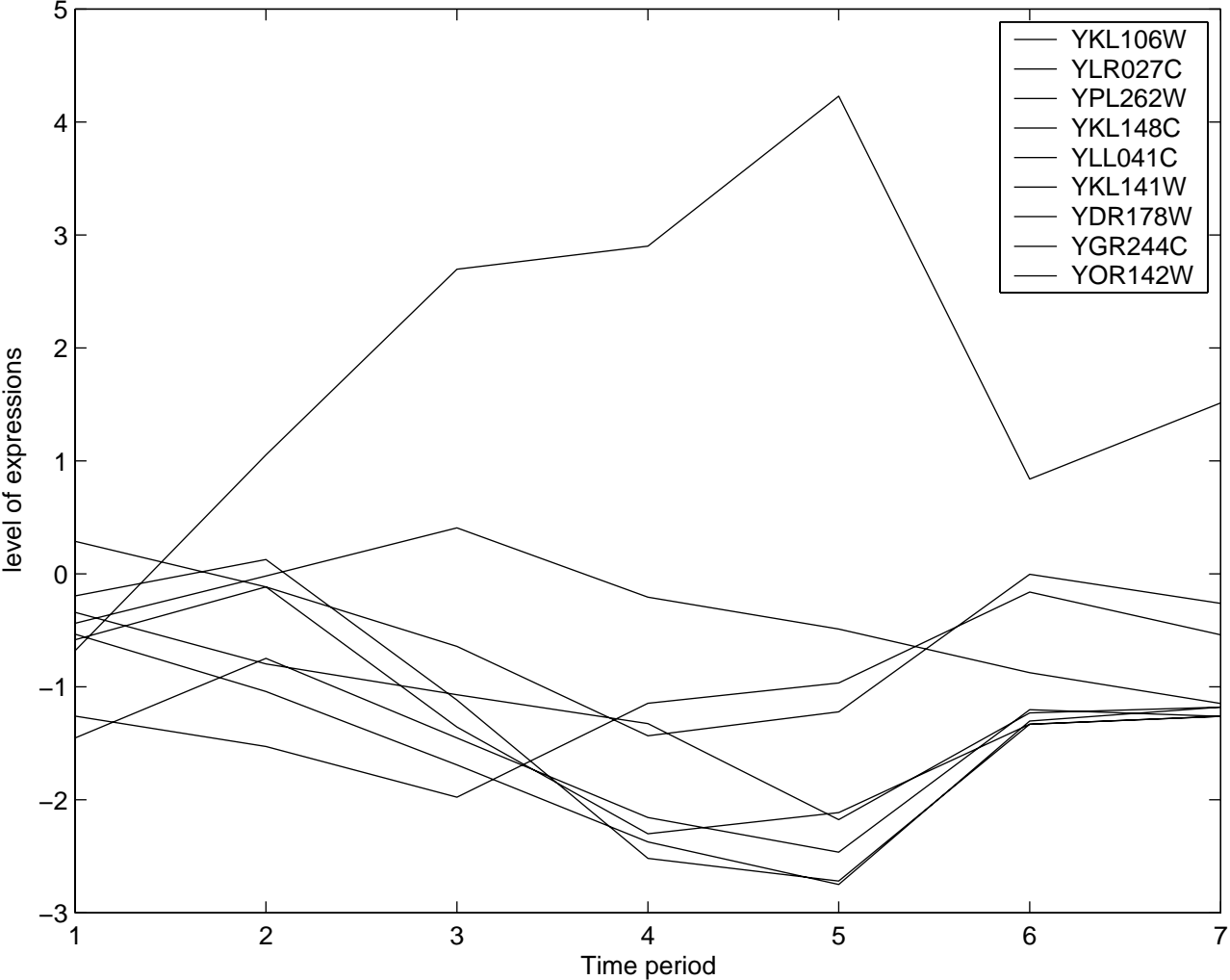




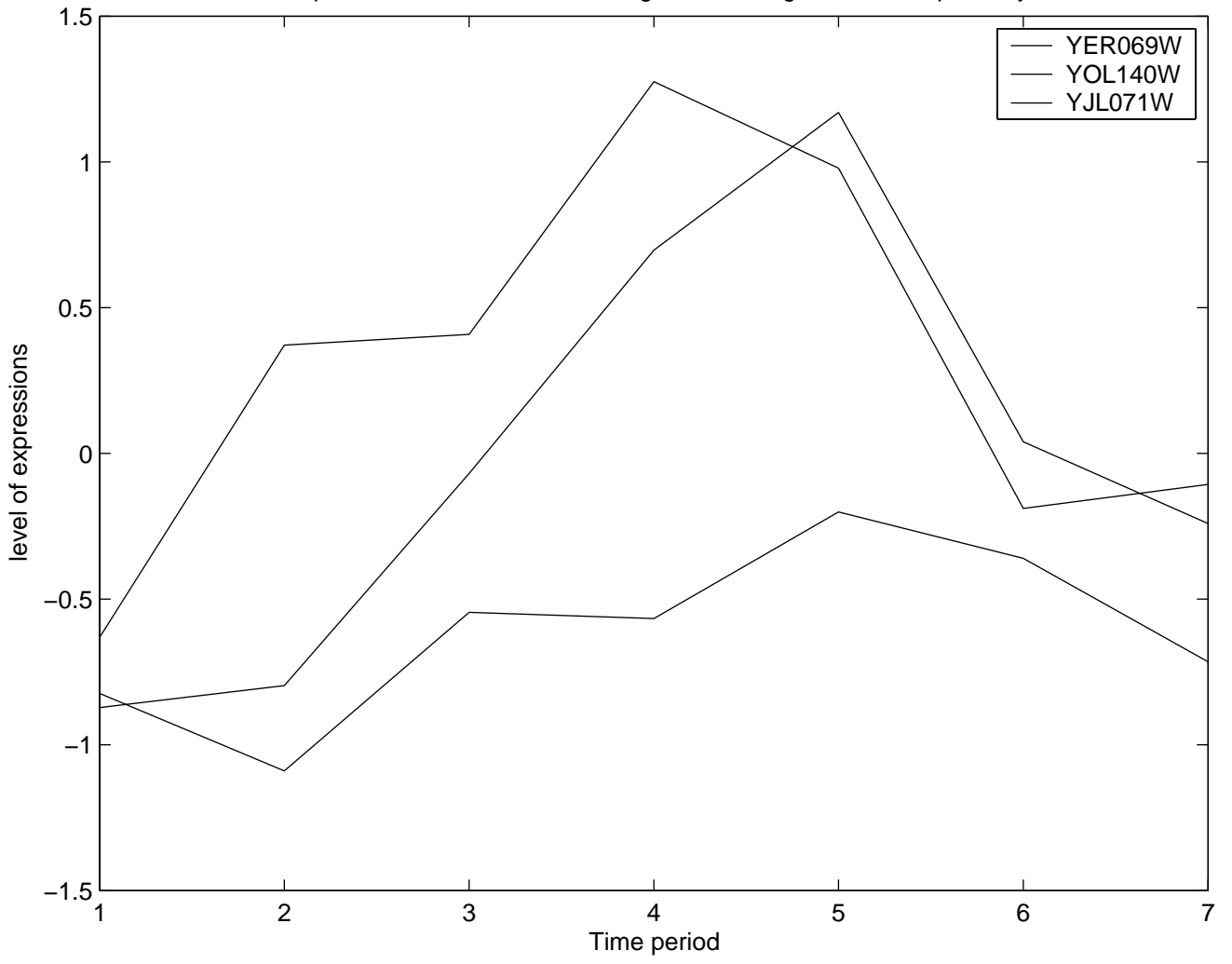
Expression of Genes involved in glutamate degradation III pathway



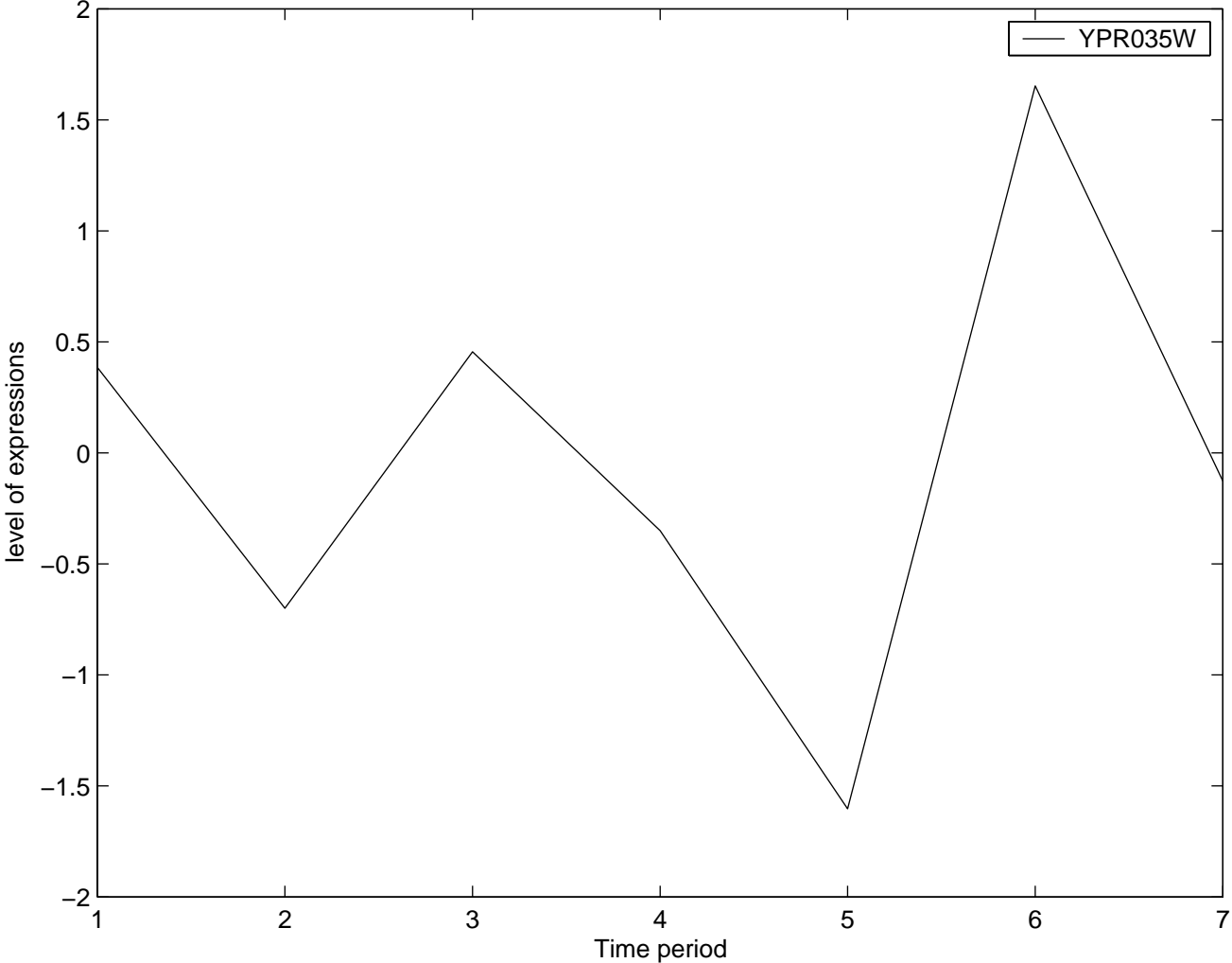
Expression of Genes involved in glutamate degradation VII pathway



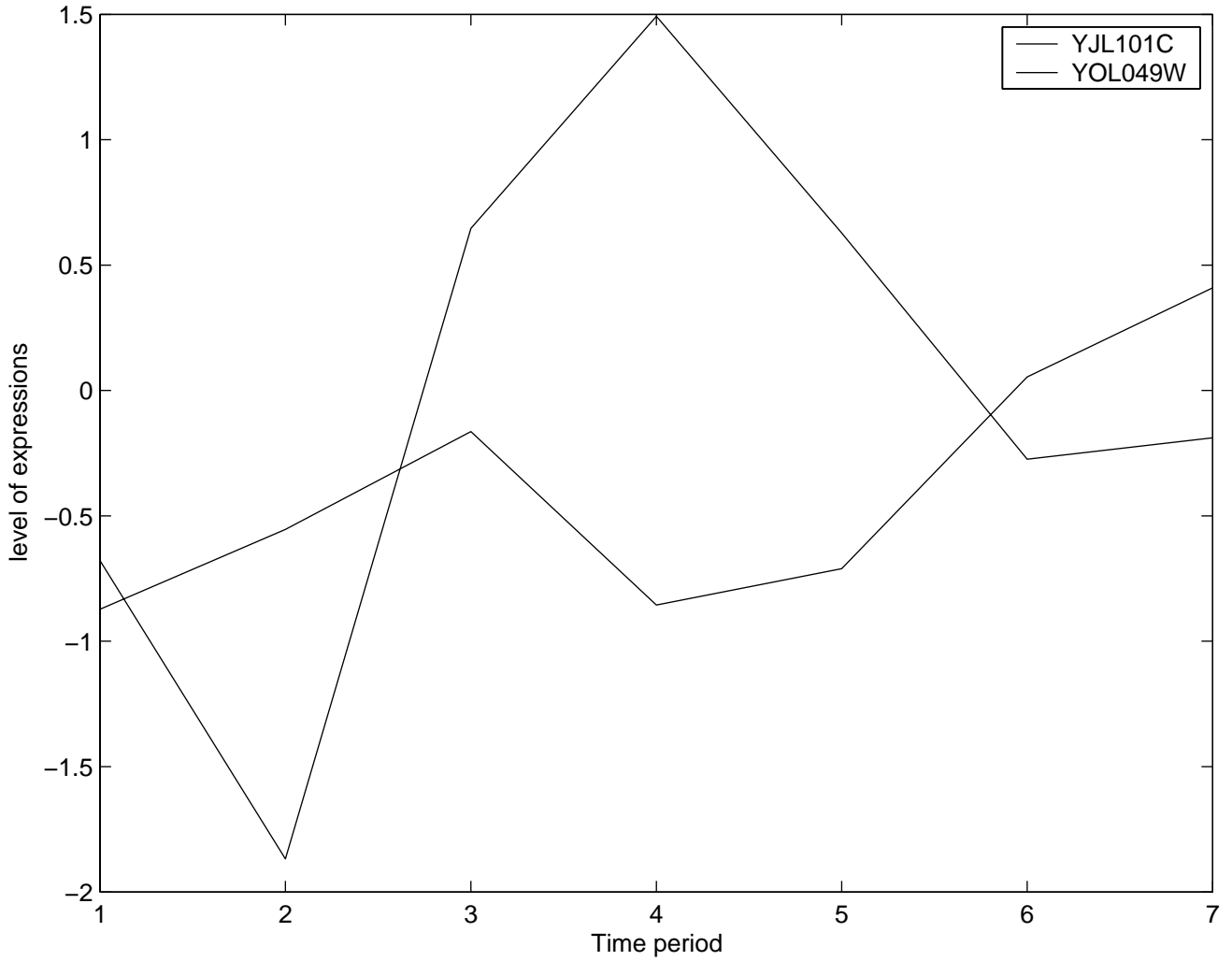
Expression of Genes involved in glutamate degradation VIII pathway



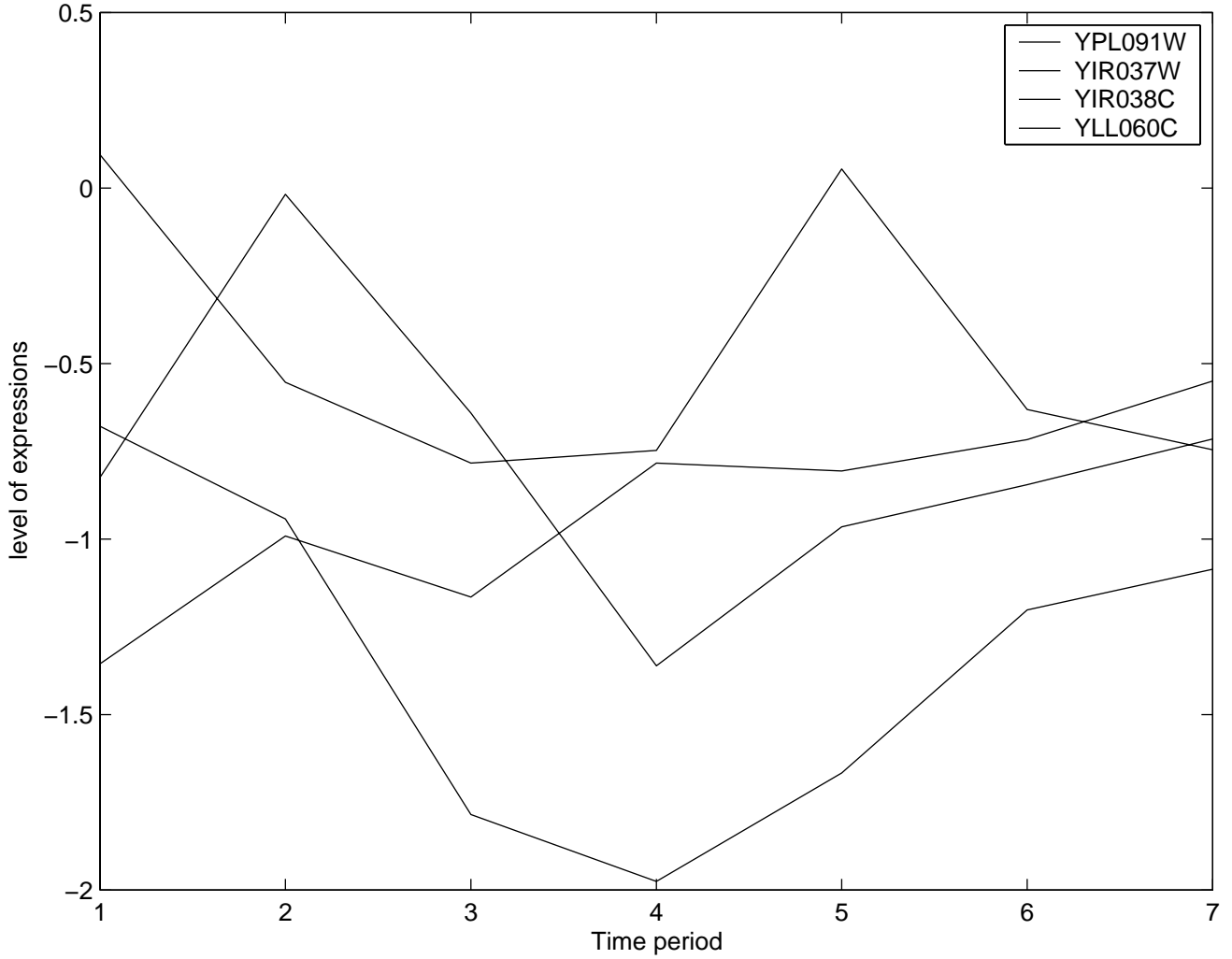
Expression of Genes involved in glutamine biosynthesis pathway



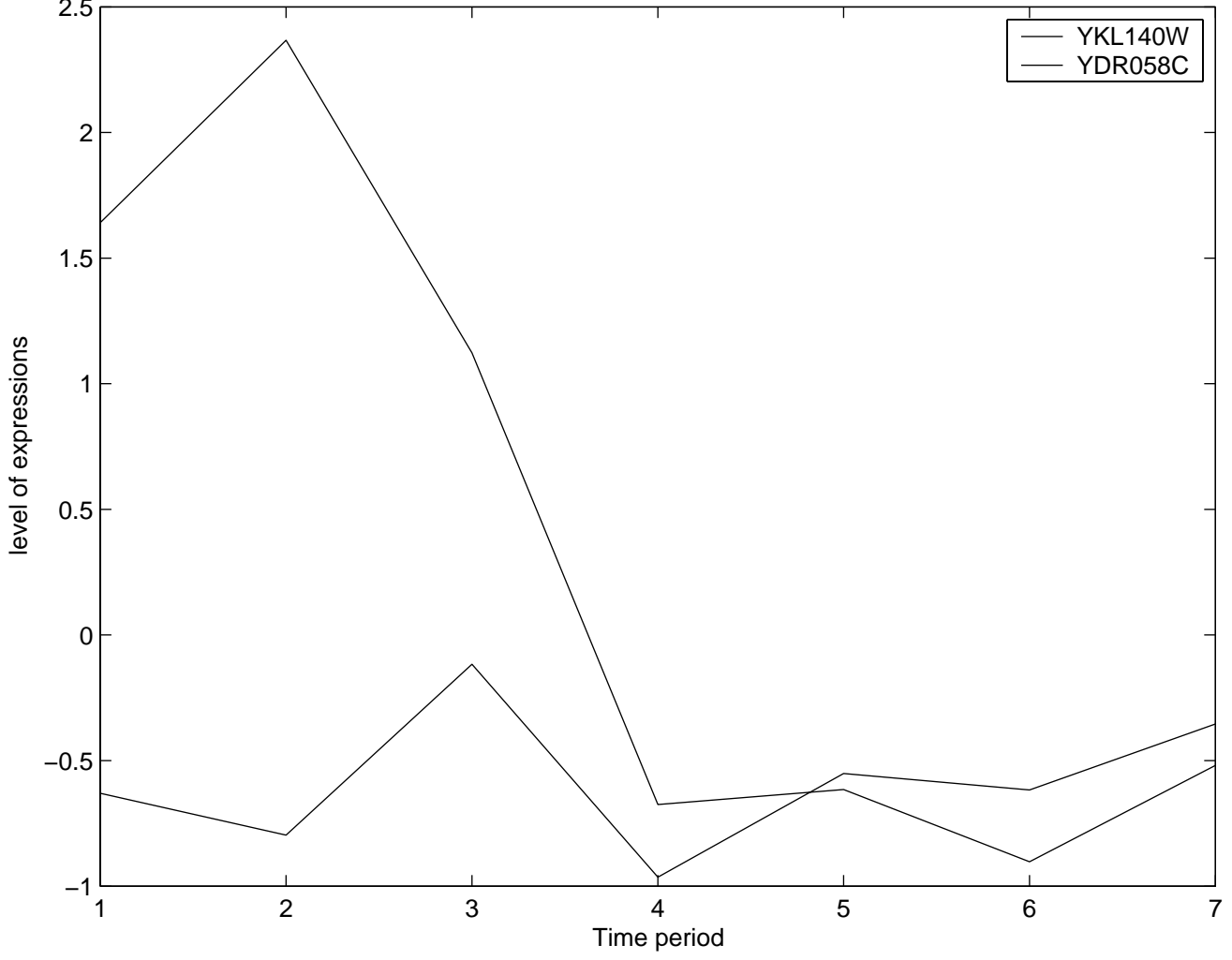
Expression of Genes involved in glutathione biosynthesis pathway



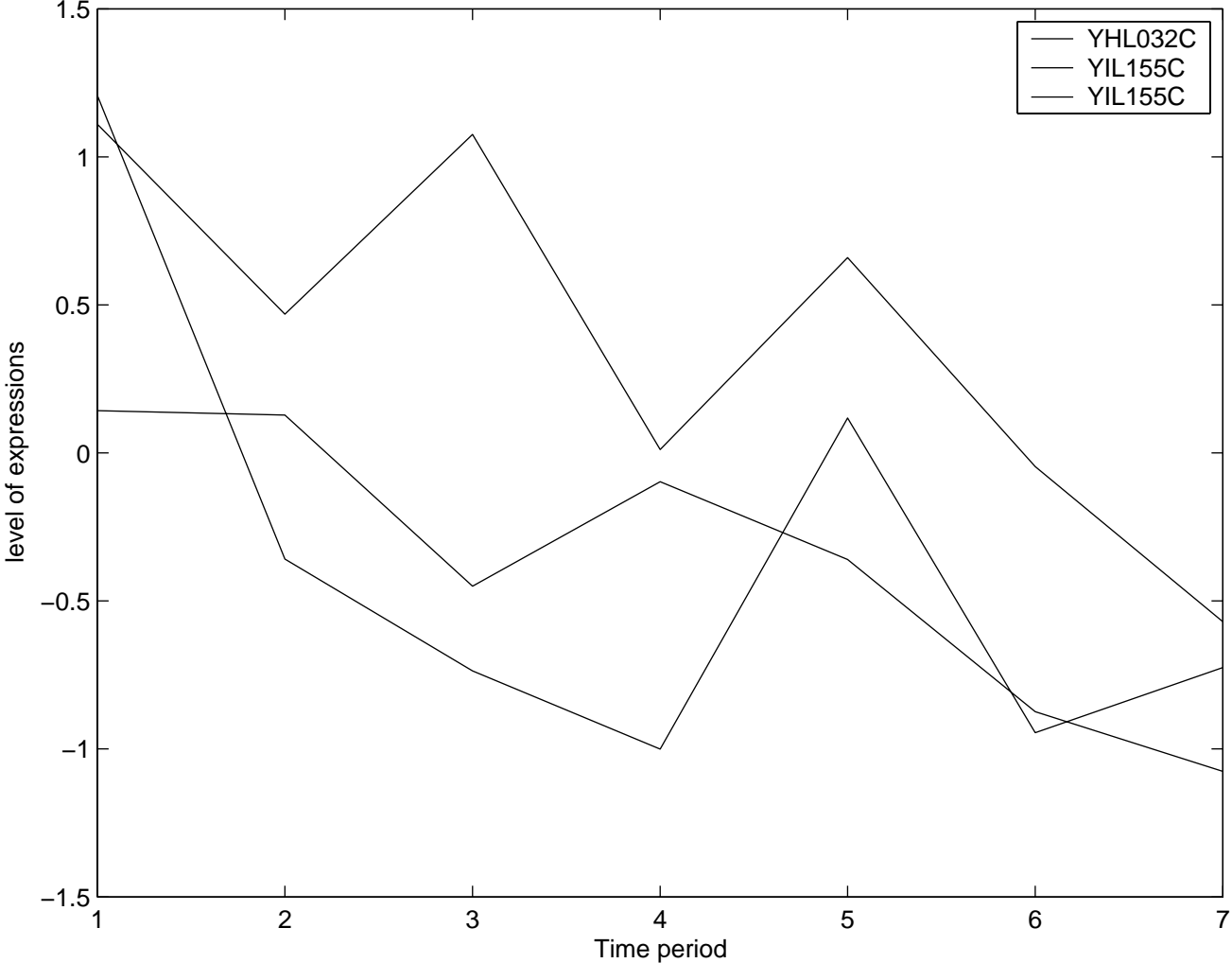
Expression of Genes involved in glutathione-glutaredoxin redox reactions pathway



Expression of Genes involved in glycerol biosynthesis pathway

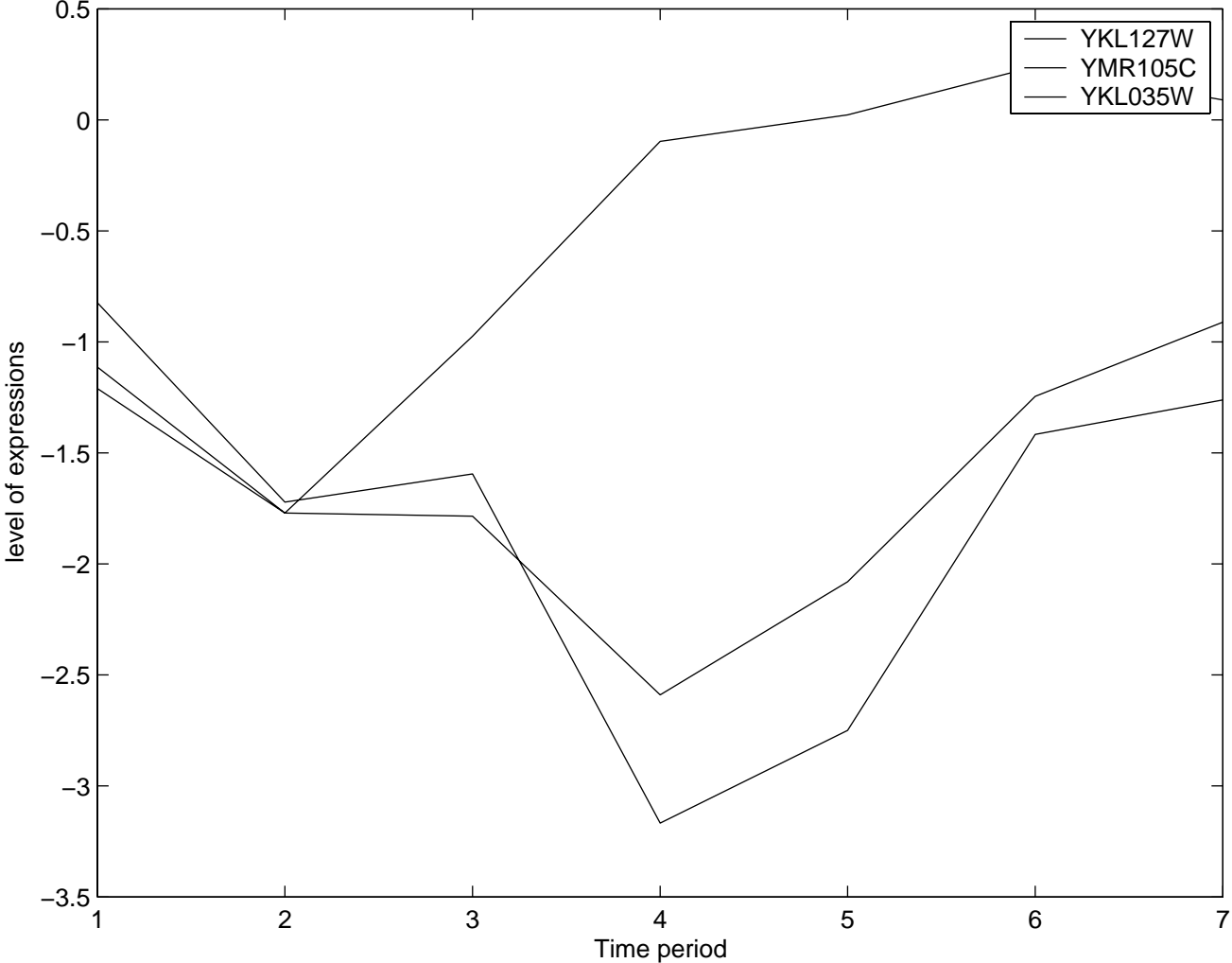


Expression of Genes involved in glycerol metabolism pathway

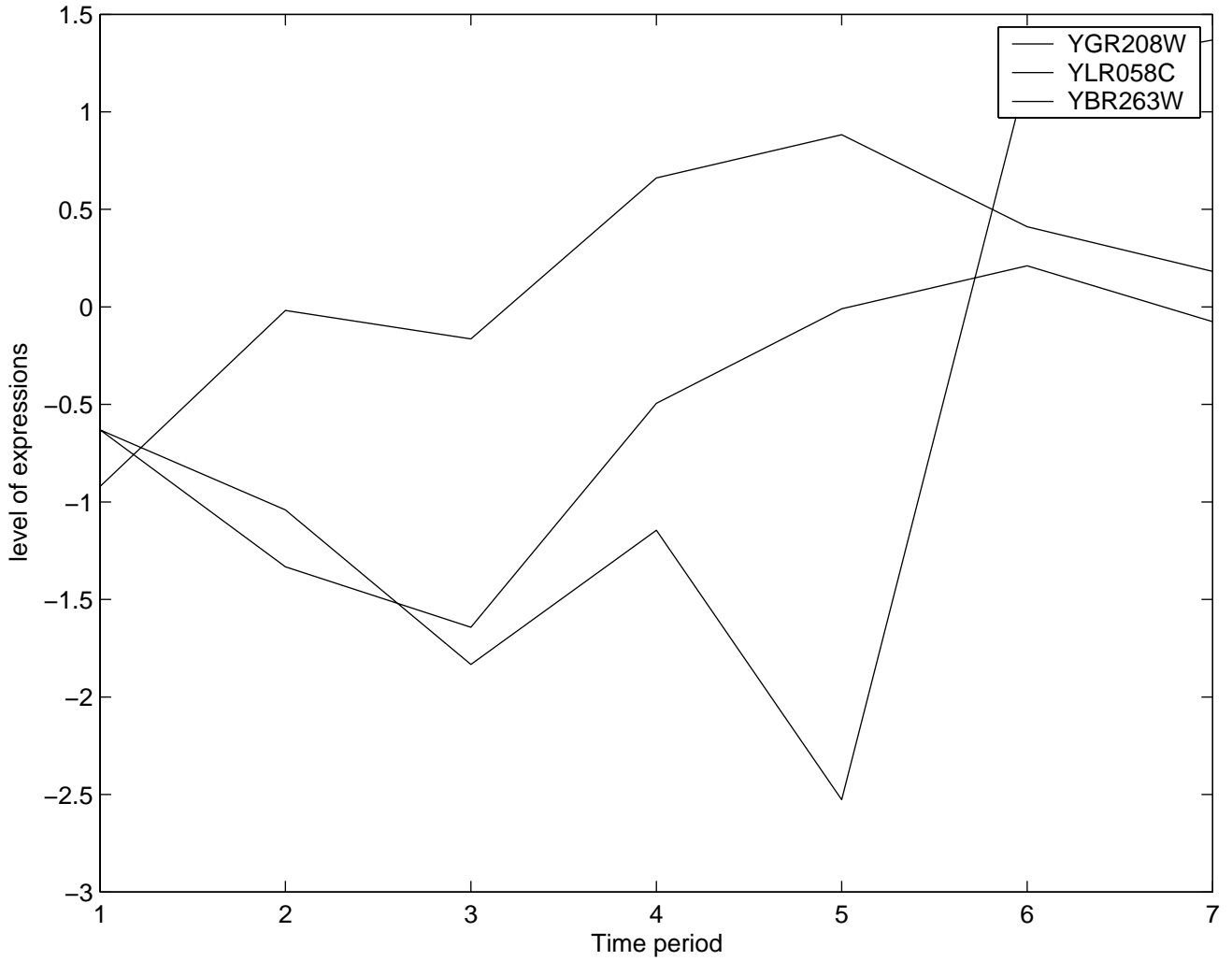




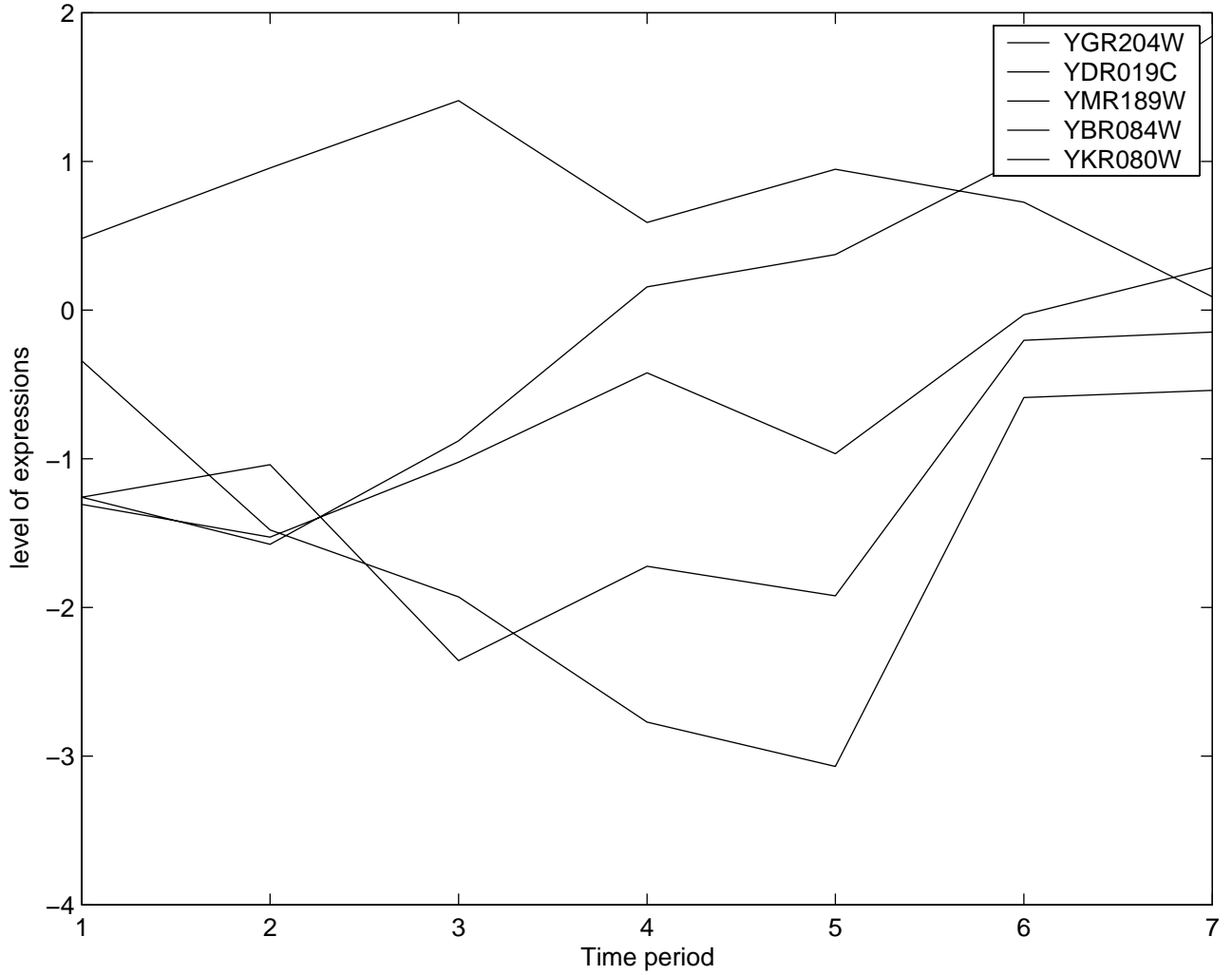
Expression of Genes involved in glycerol teichoic acid biosynthesis pathway



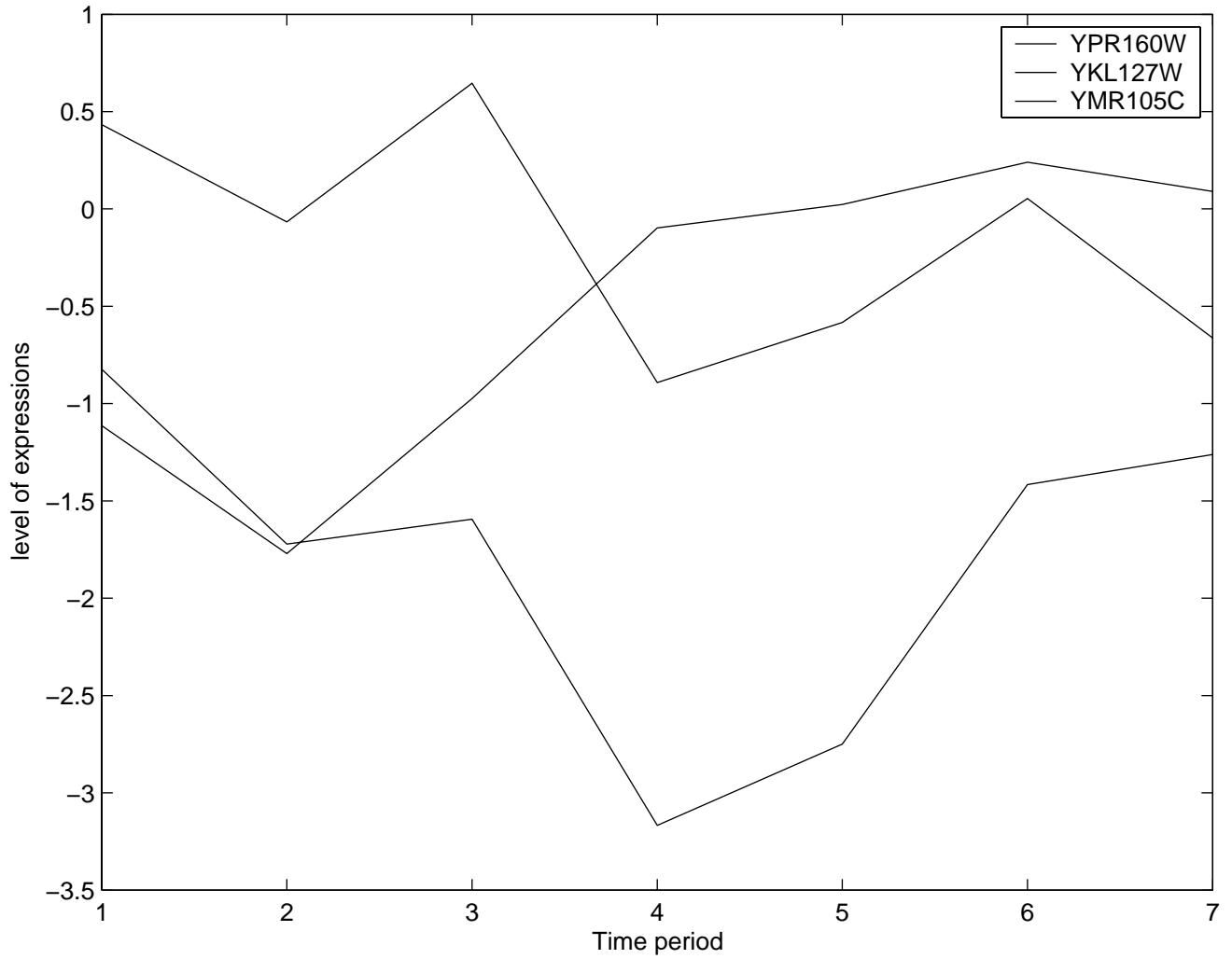
Expression of Genes involved in glycine biosynthesis pathway



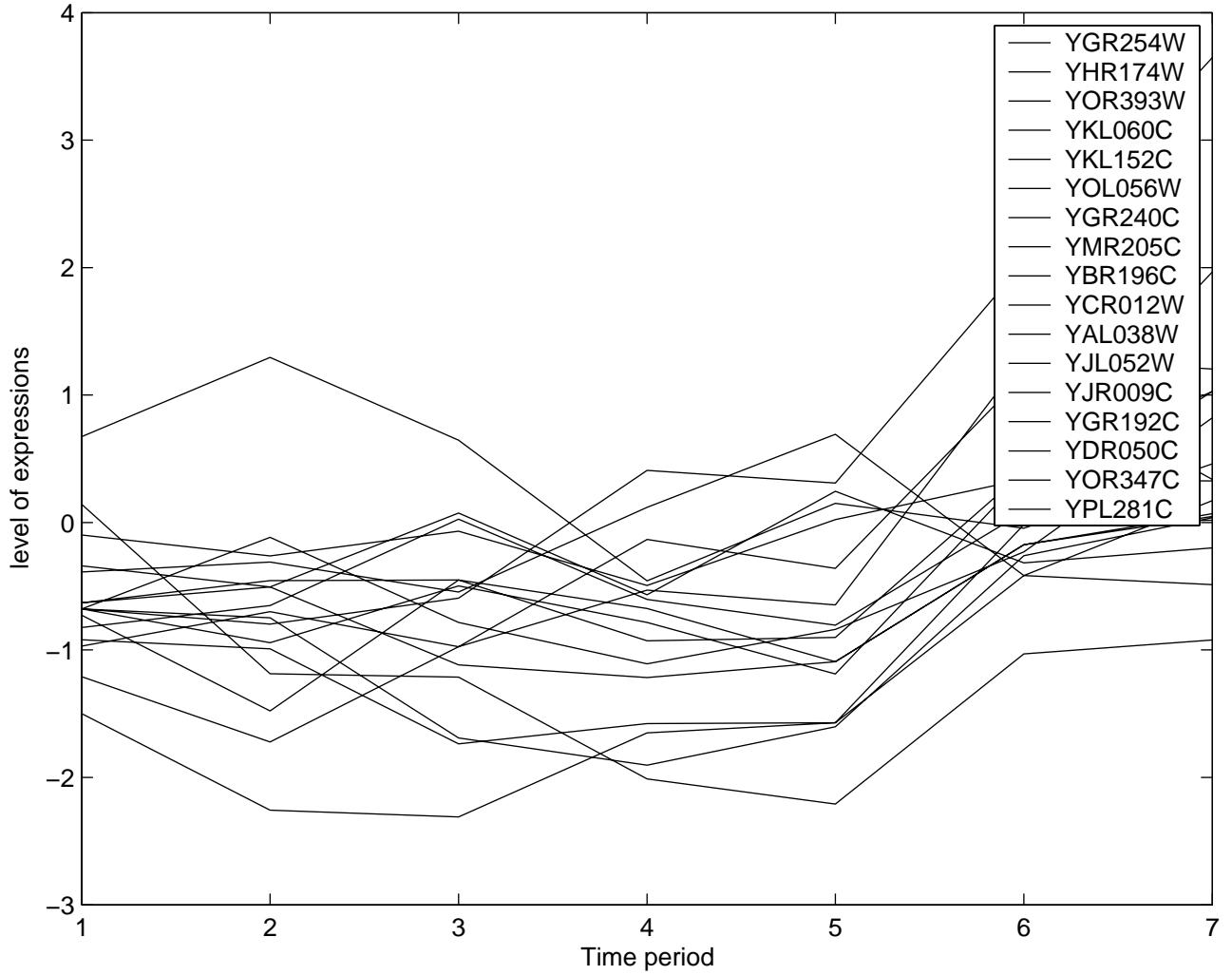
Expression of Genes involved in glycine degradation pathway



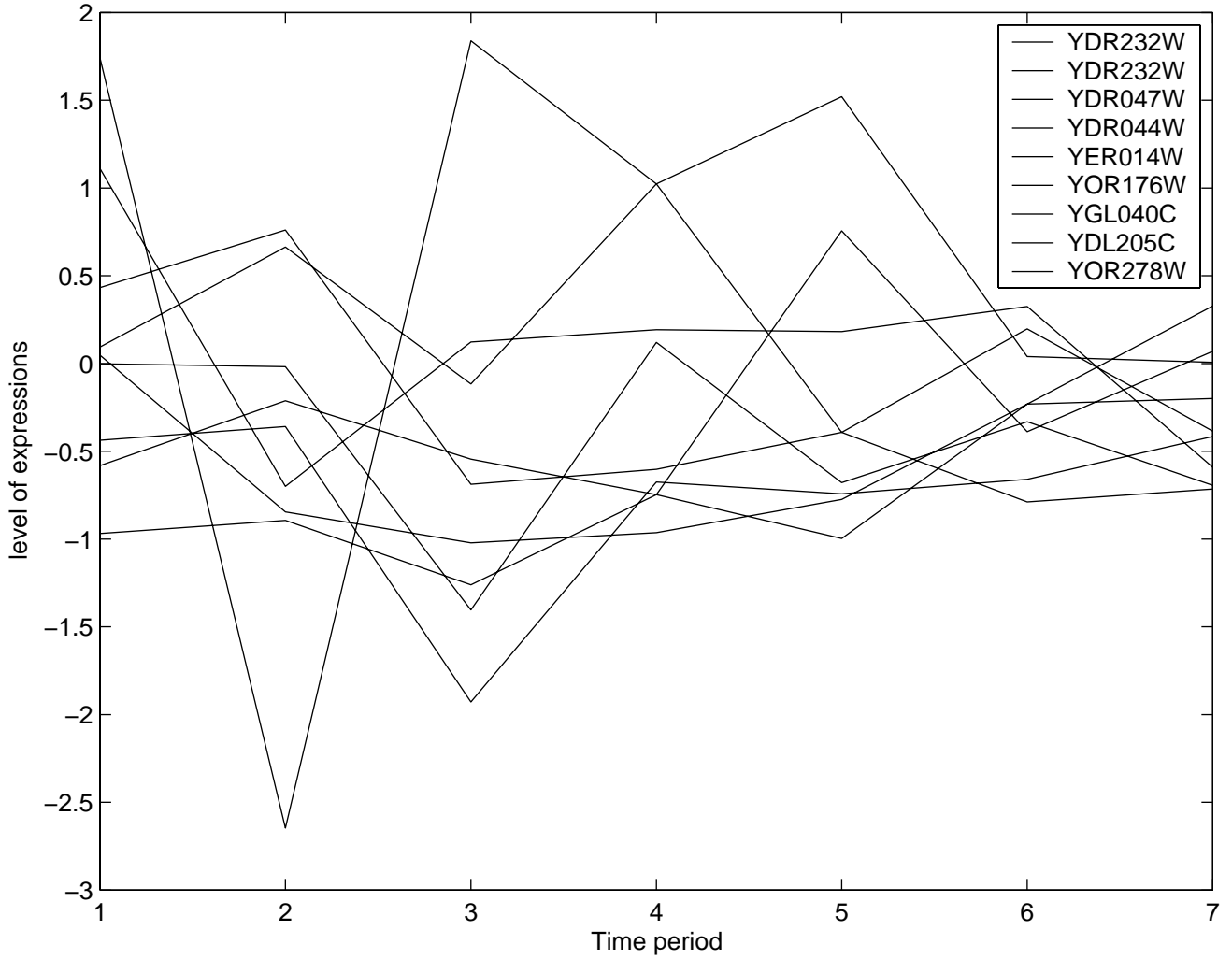
Expression of Genes involved in glycogen catabolism pathway



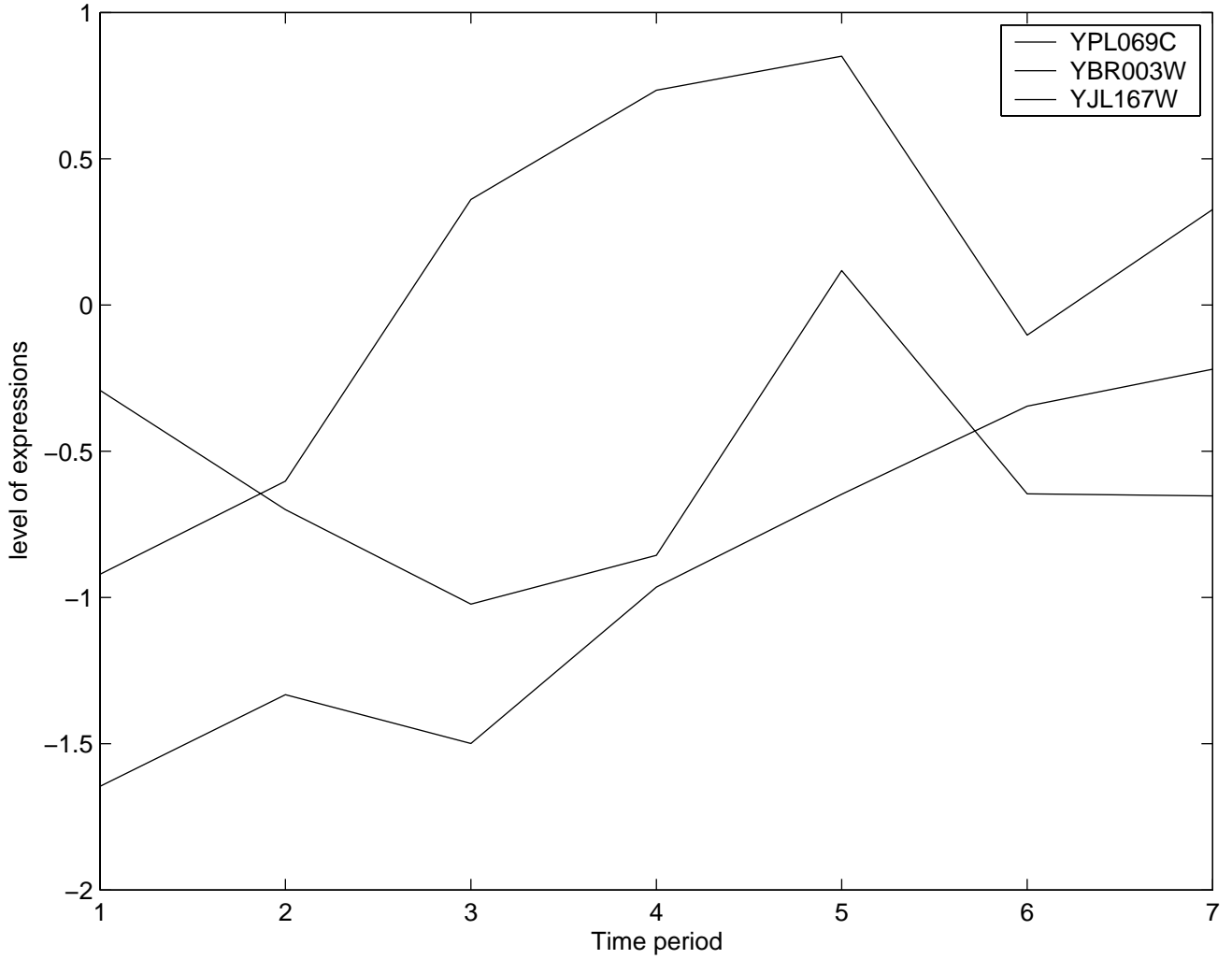
Expression of Genes involved in glycolysis pathway



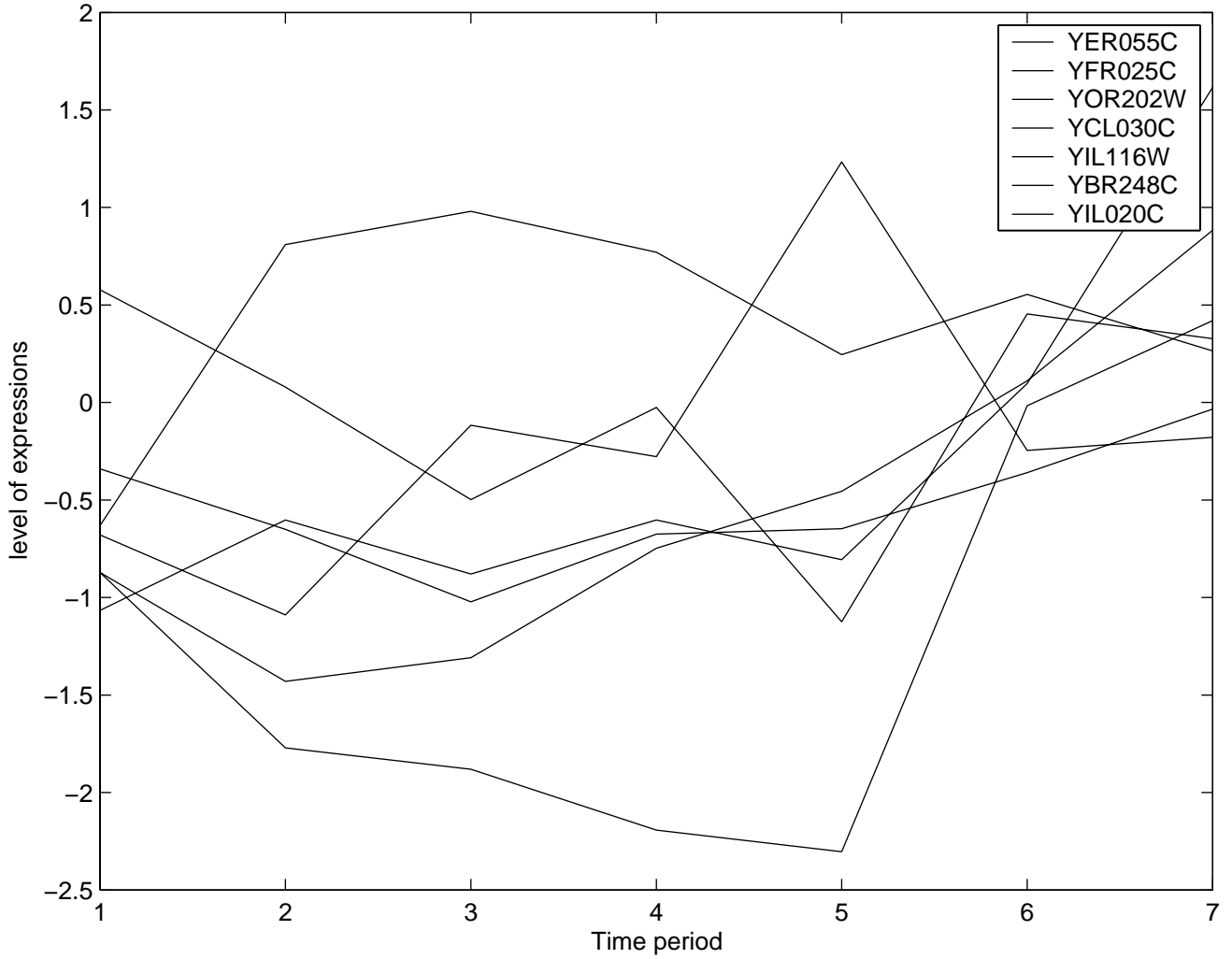
Expression of Genes involved in heme biosynthesis pathway



Expression of Genes involved in hexaprenyl diphosphate biosynthesis pathway

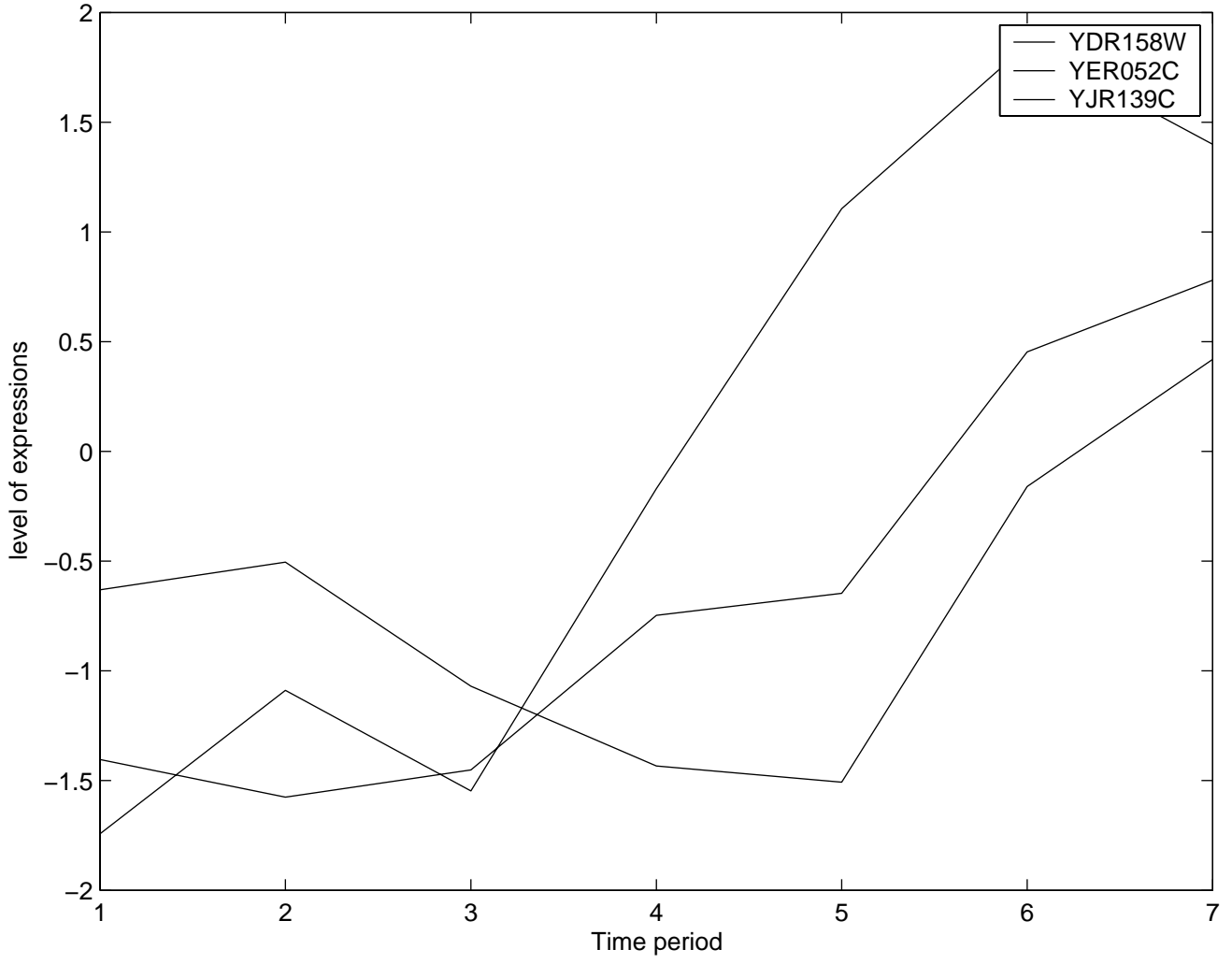


Expression of Genes involved in histidine biosynthesis pathway

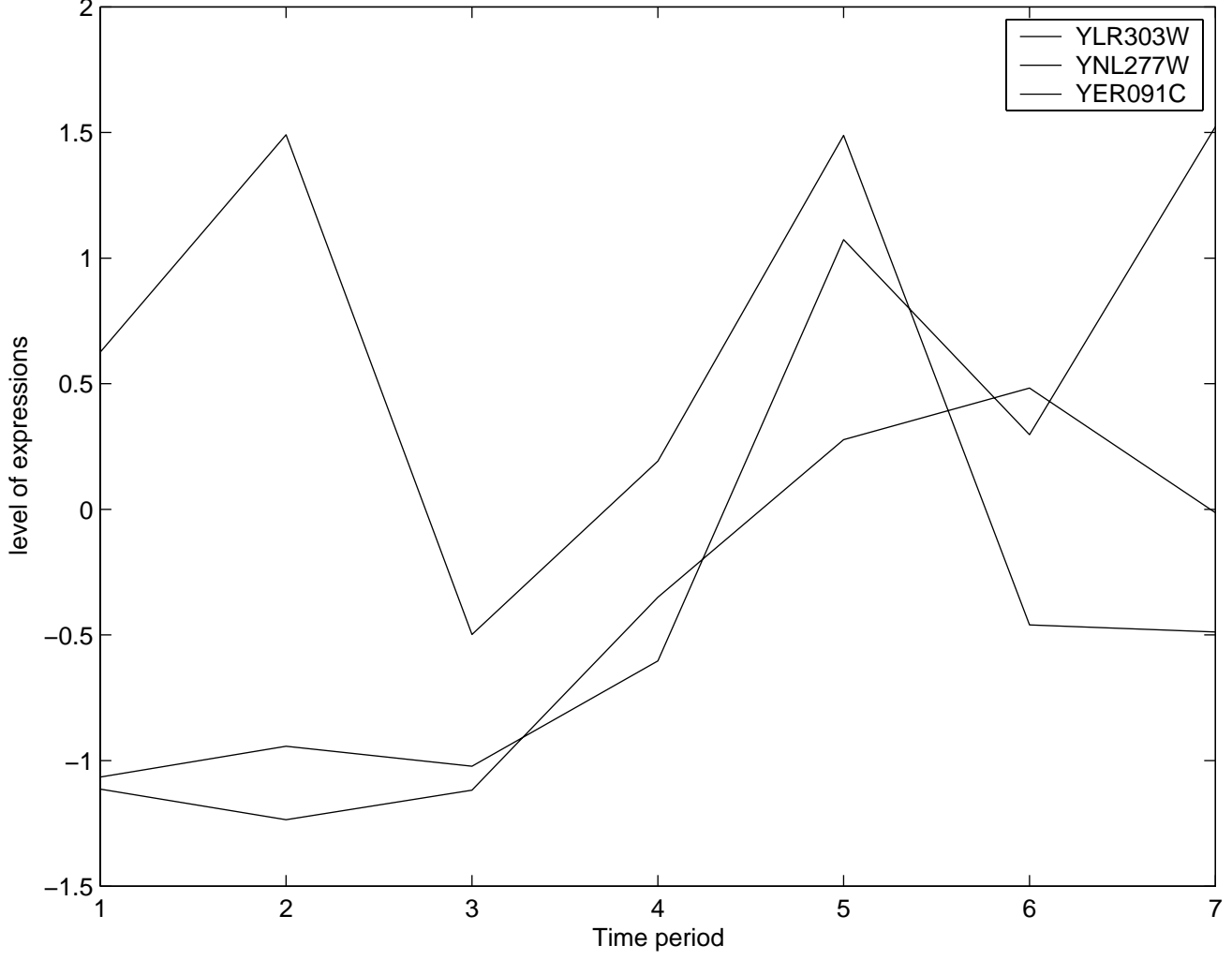




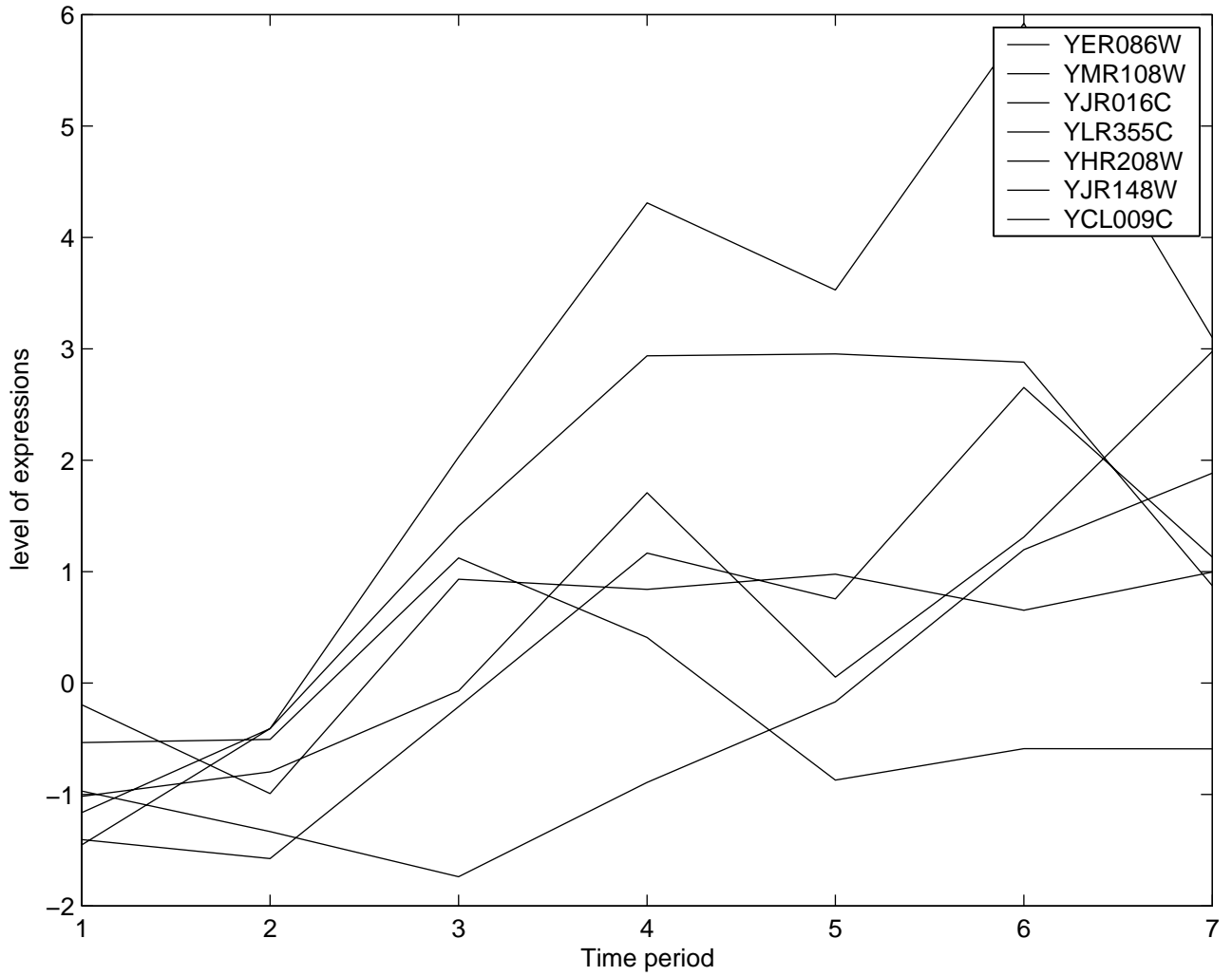
Expression of Genes involved inhomoserine biosynthesis pathway



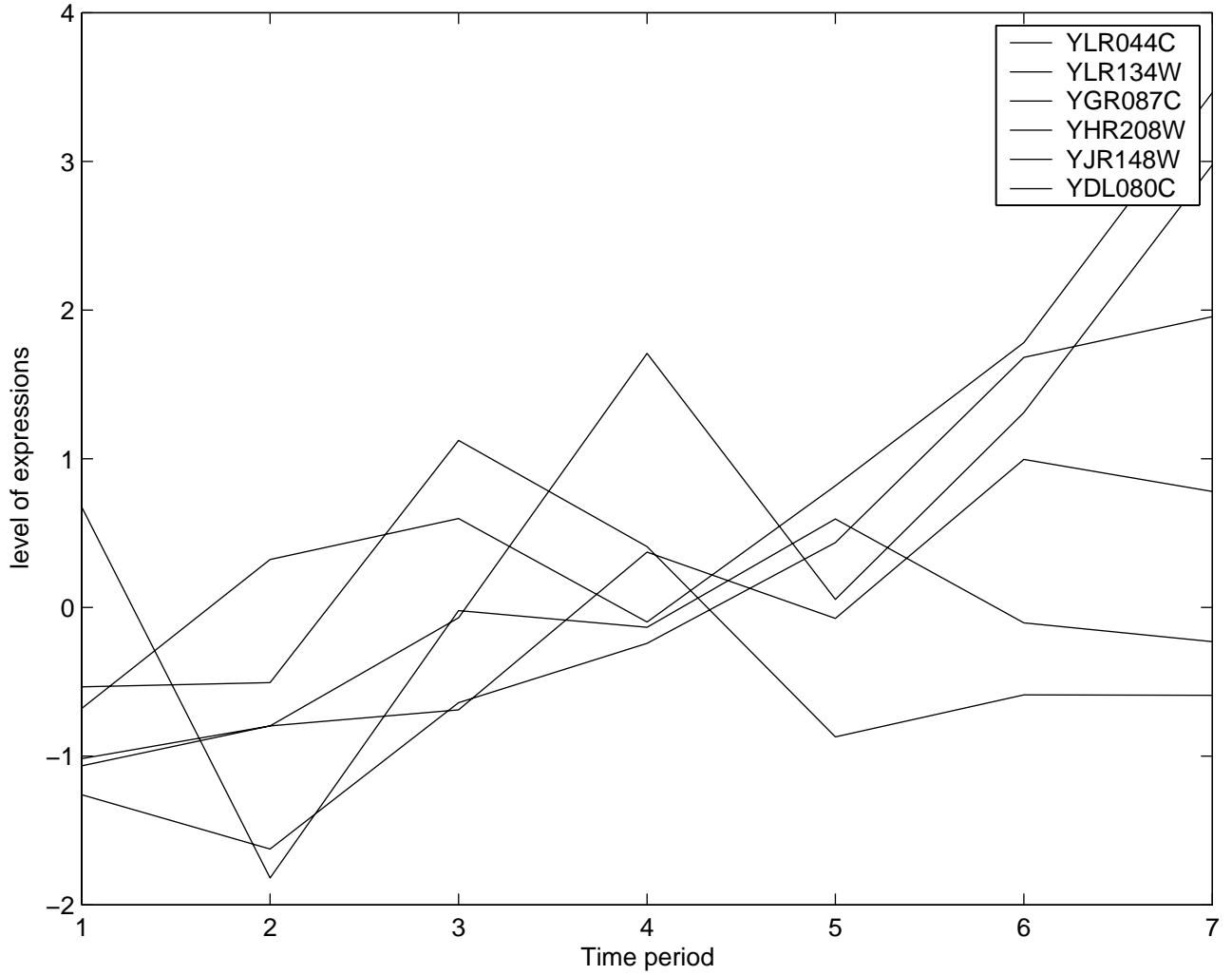
Expression of Genes involved inhomoserine methionine biosynthesis pathway



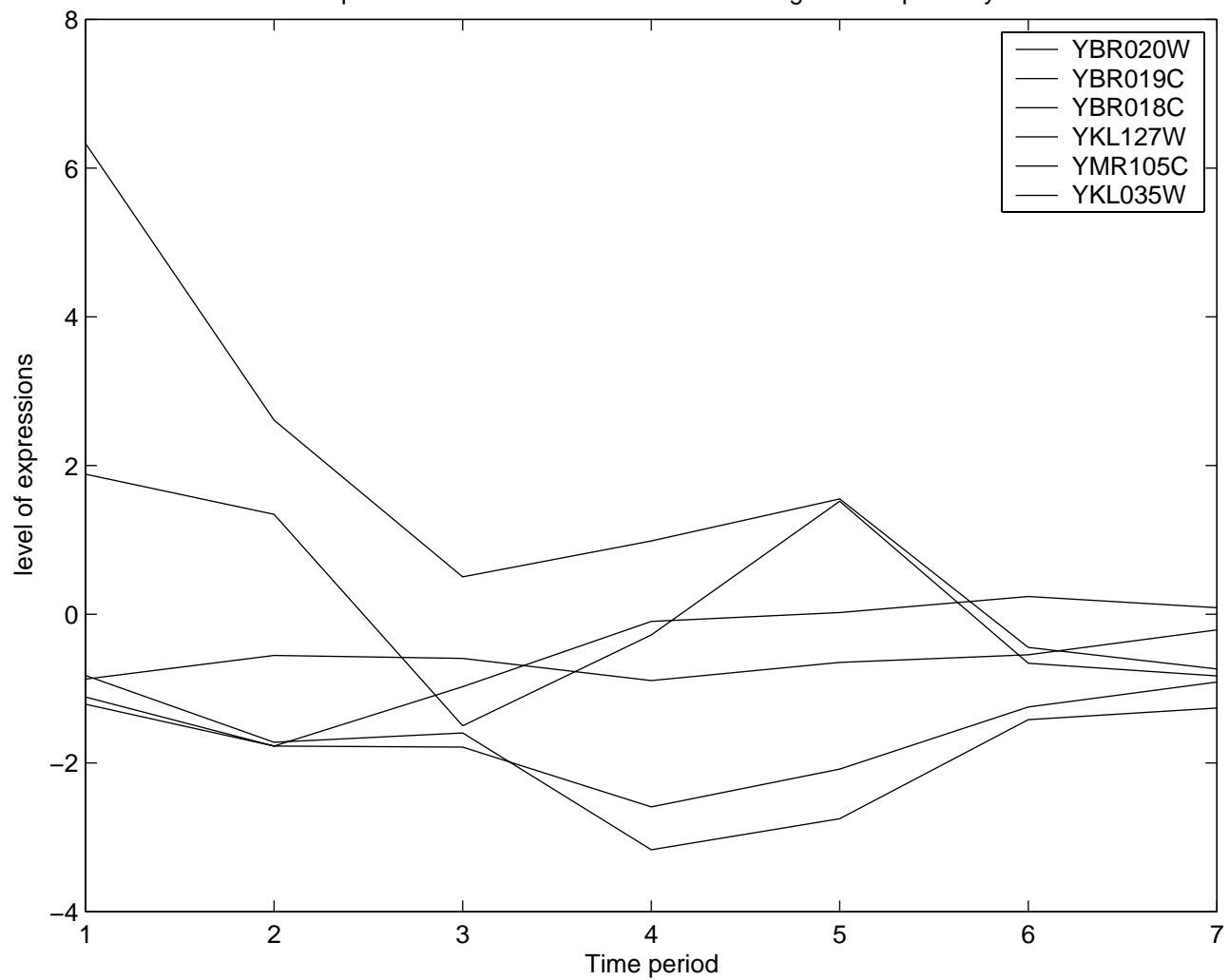
Expression of Genes involved in isoleucine biosynthesis pathway



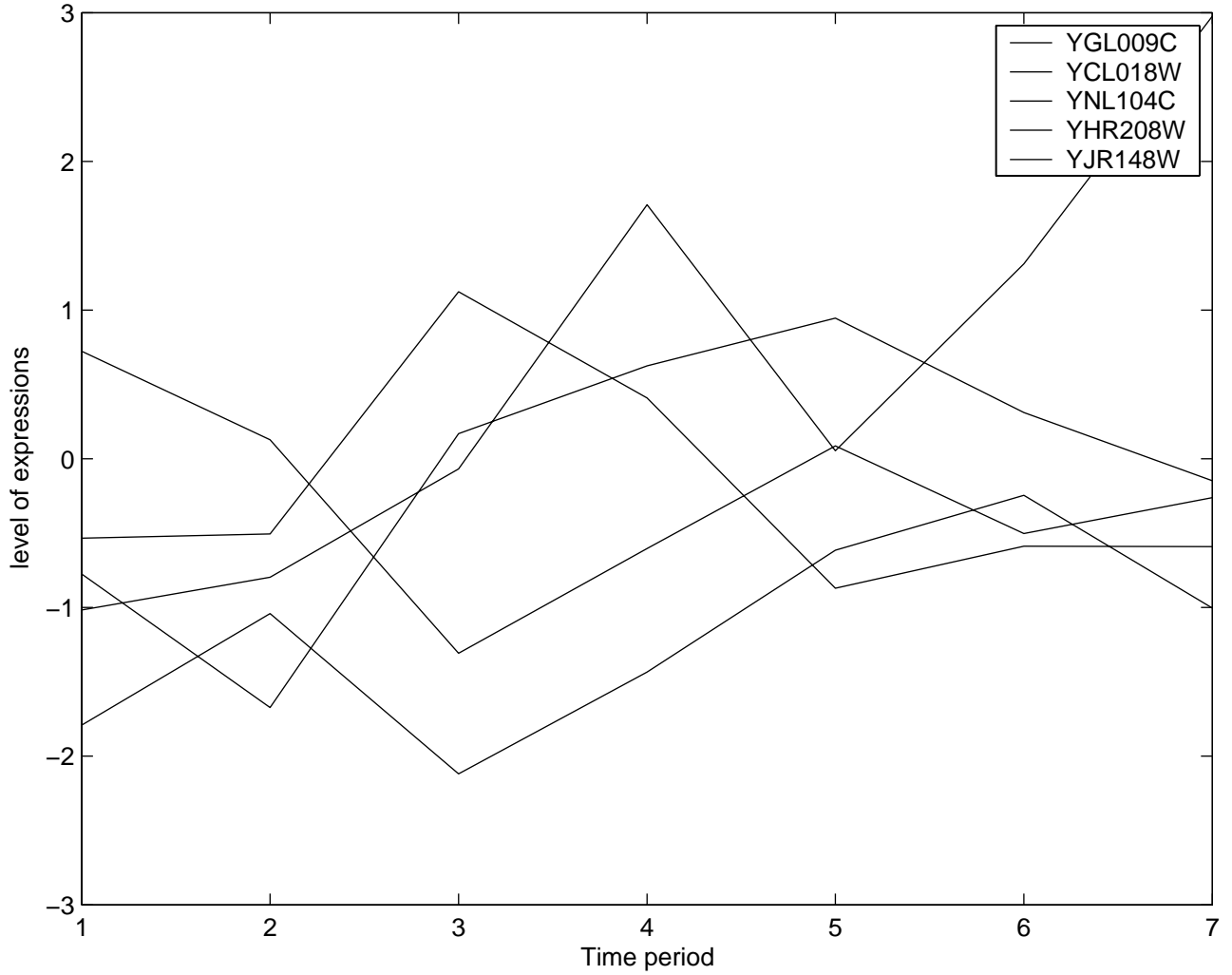
Expression of Genes involved in isoleucine degradation pathway



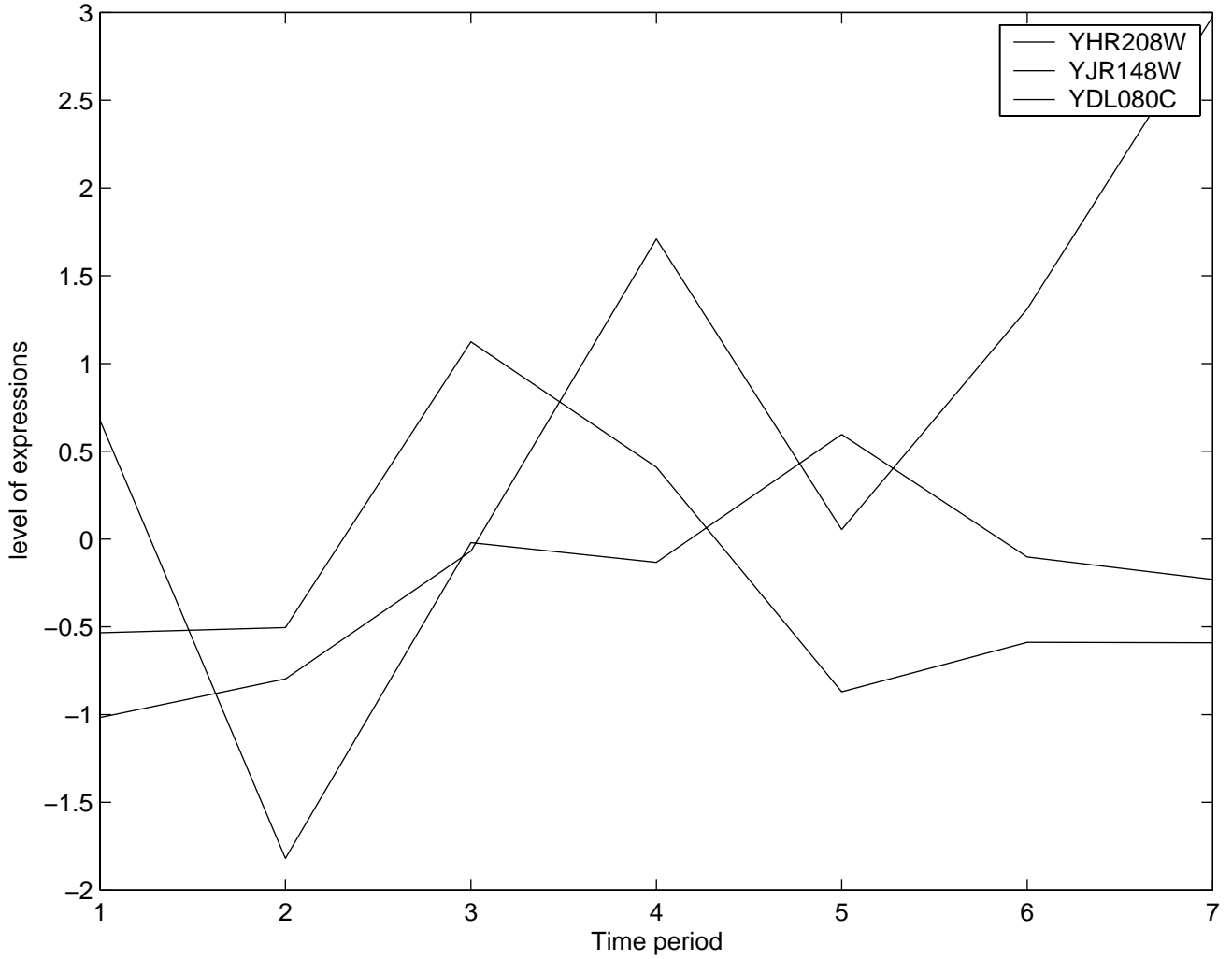
Expression of Genes involved in lactose degradation pathway



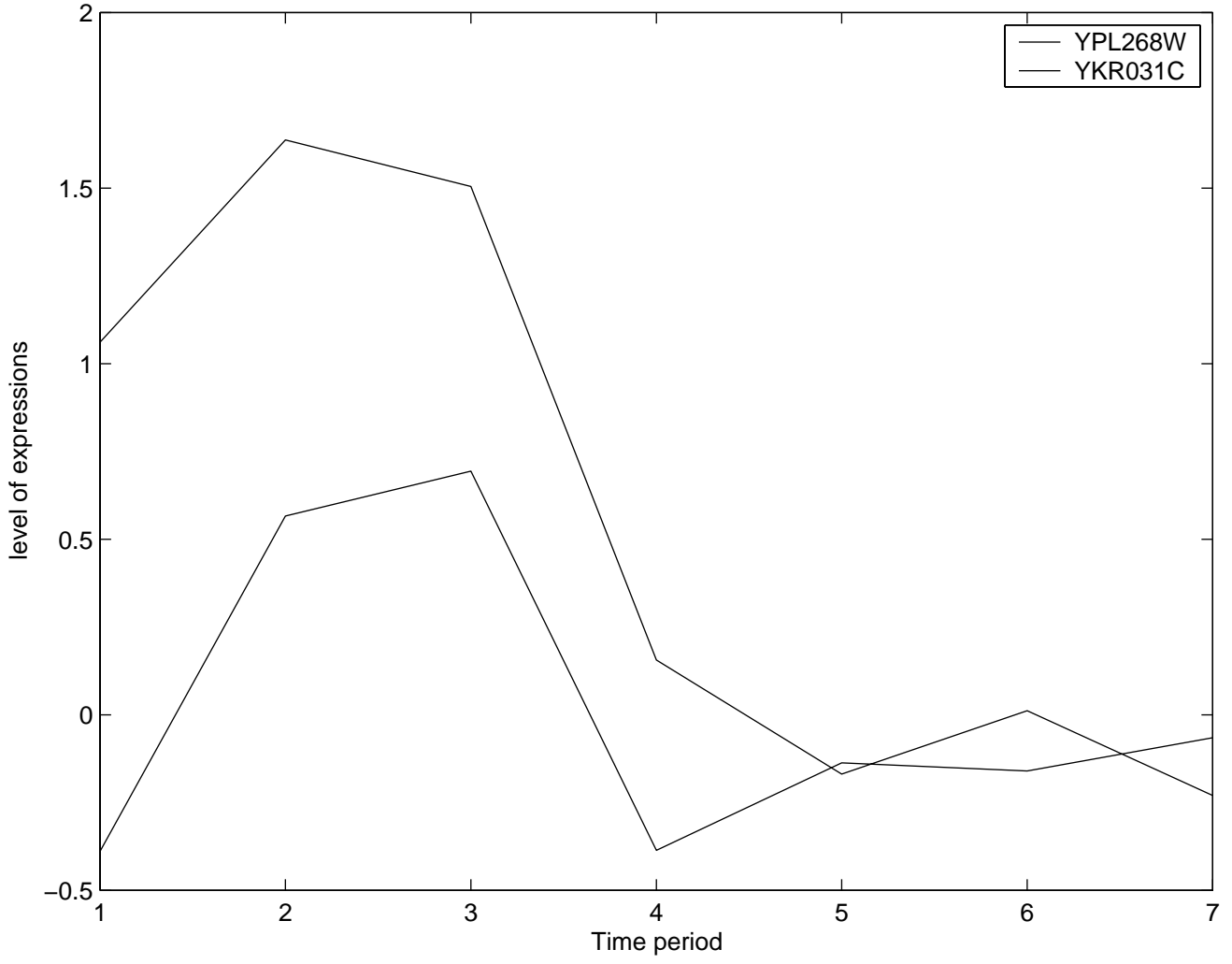
Expression of Genes involved in leucine biosynthesis pathway



Expression of Genes involved in leucine degradation pathway

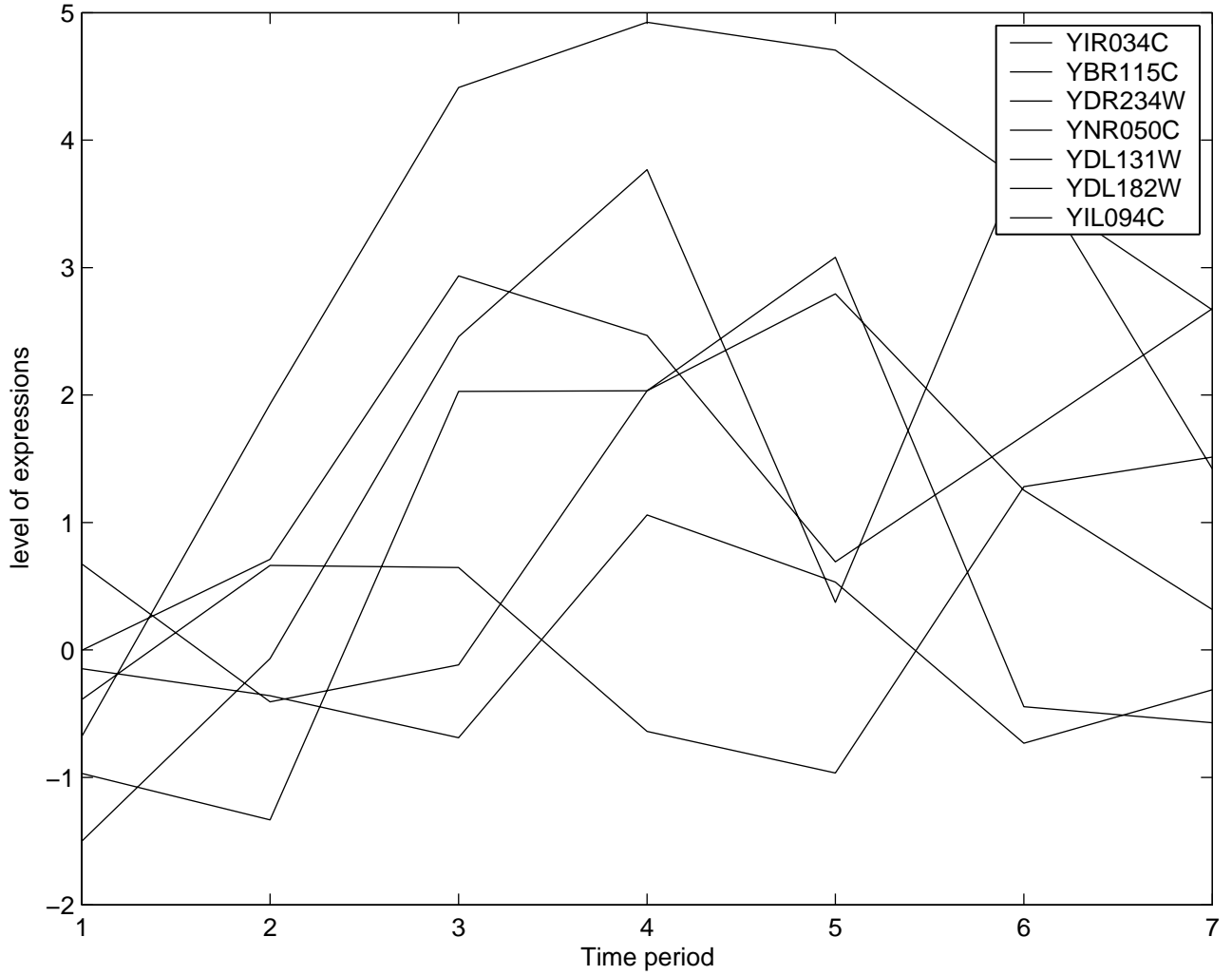


Expression of Genes involved in lipases biosynthesis pathway

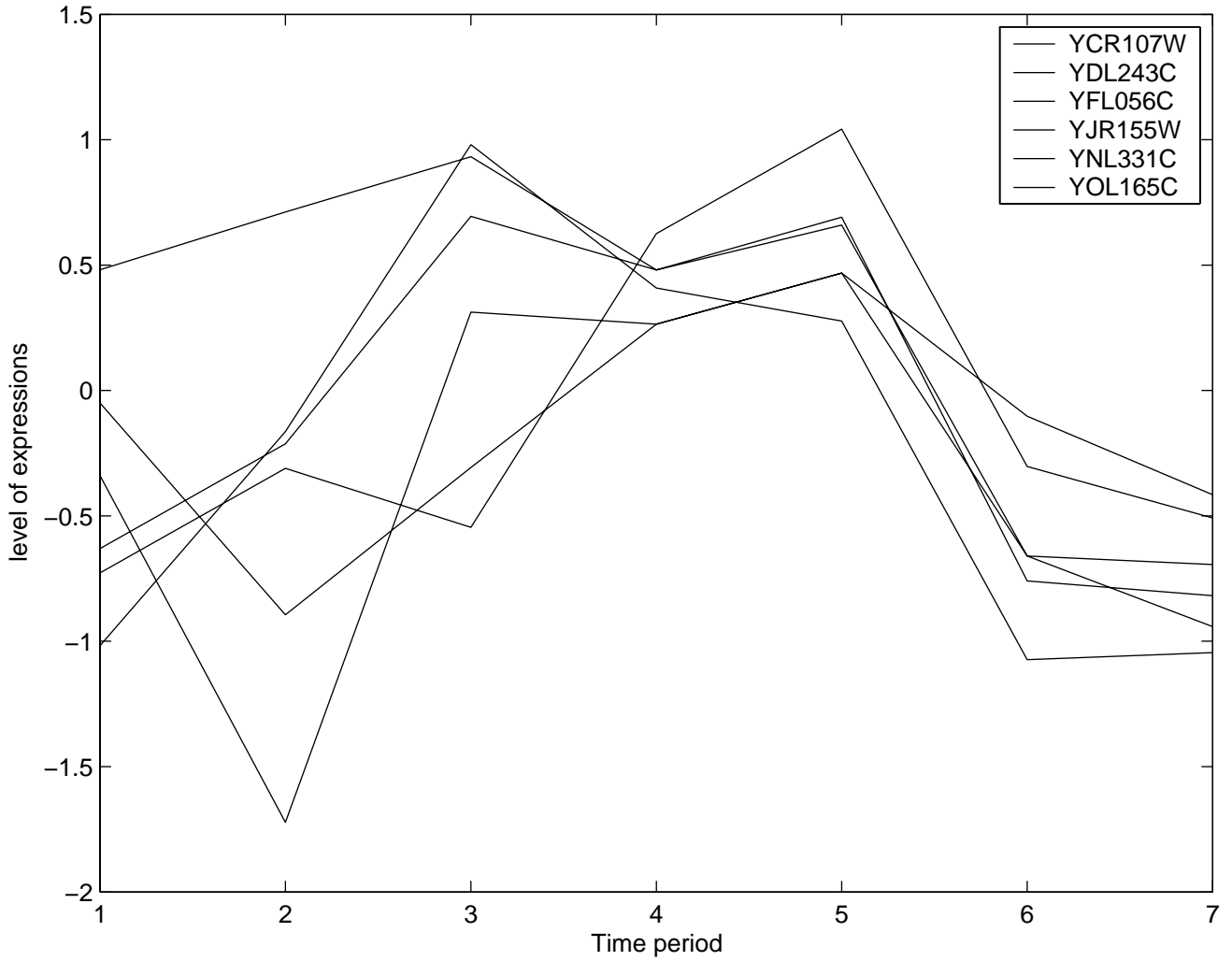




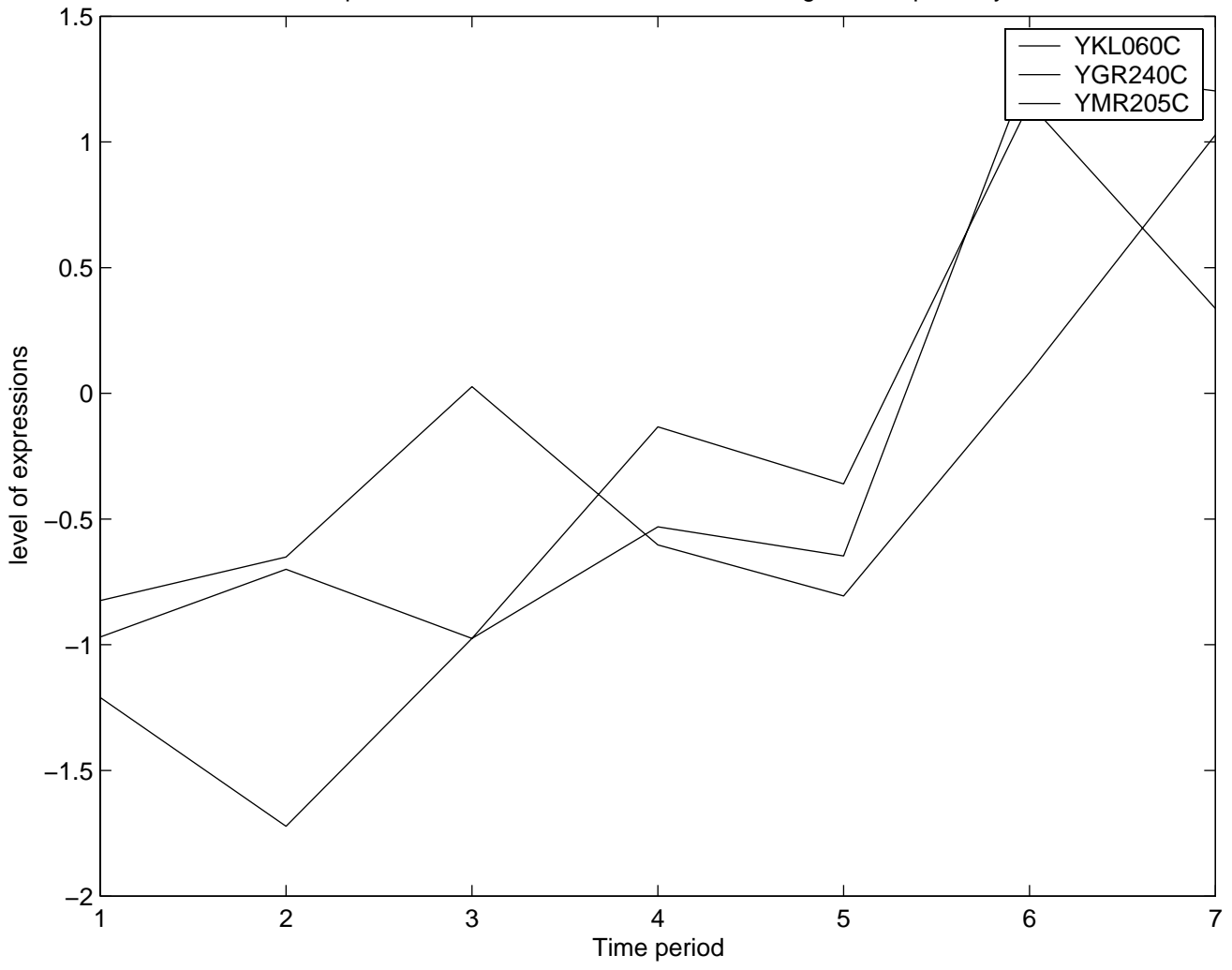
Expression of Genes involved in lysine biosynthesis pathway



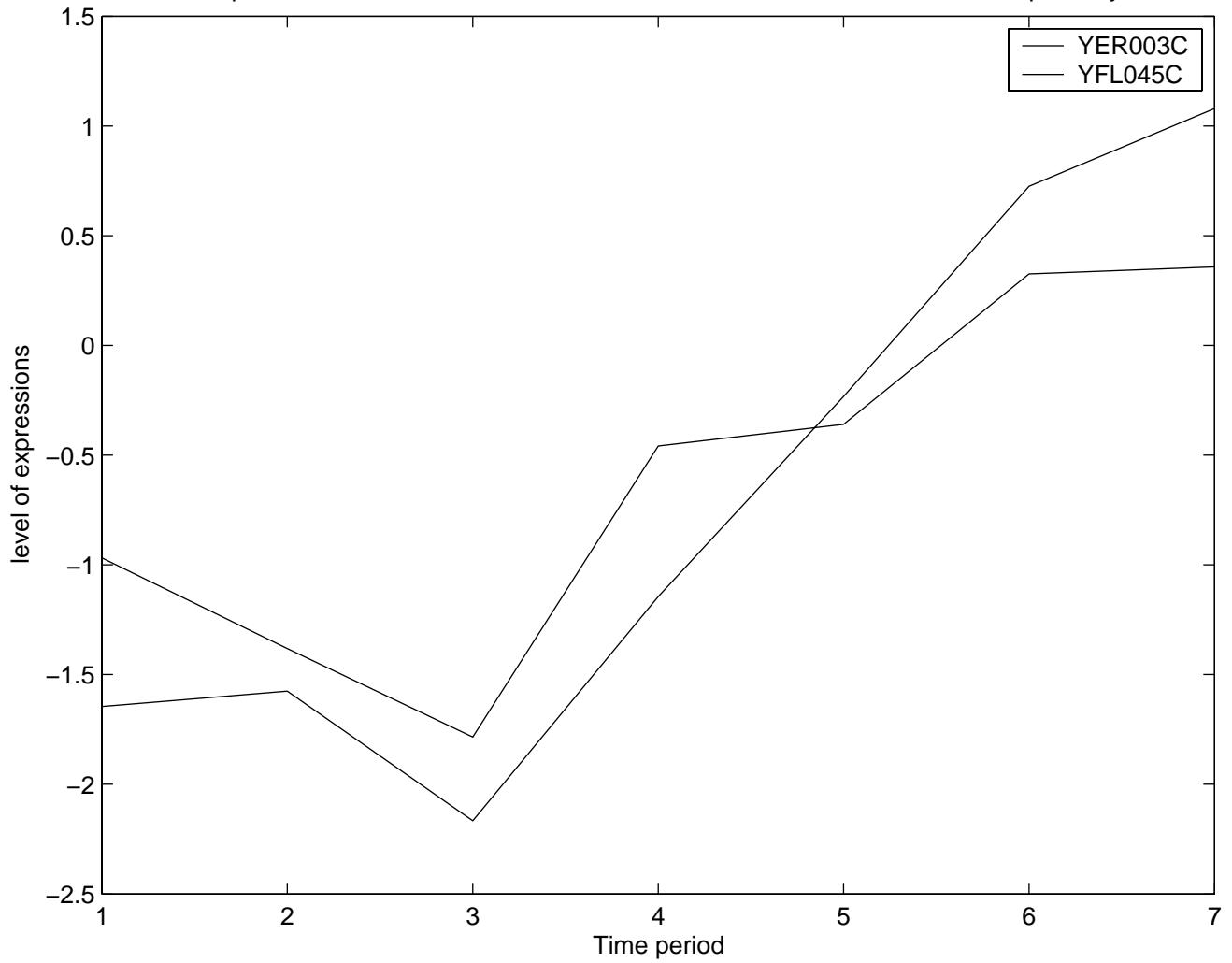
Expression of Genes involved in m-cresol degradation pathway



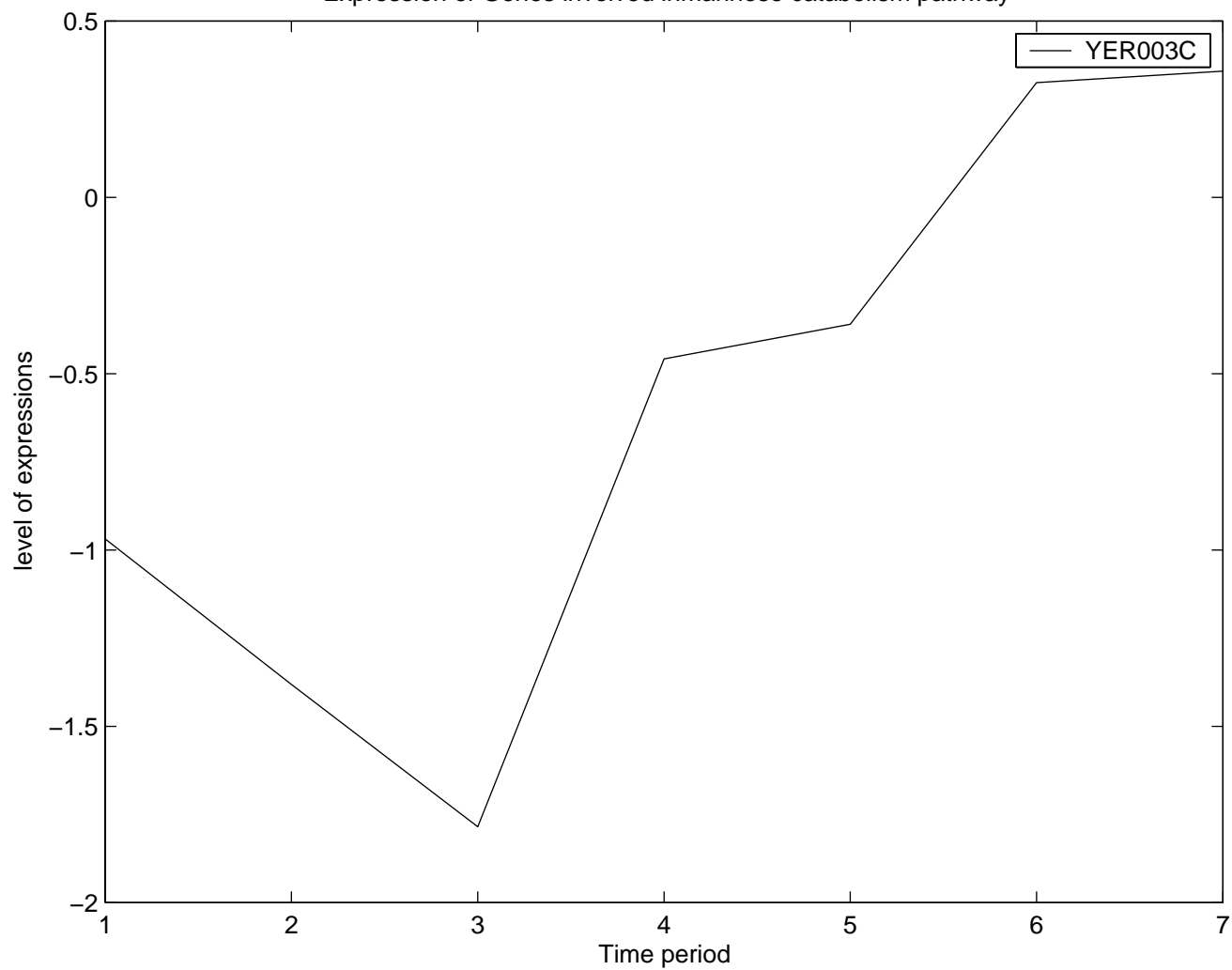
Expression of Genes involved in mannitol degradation pathway



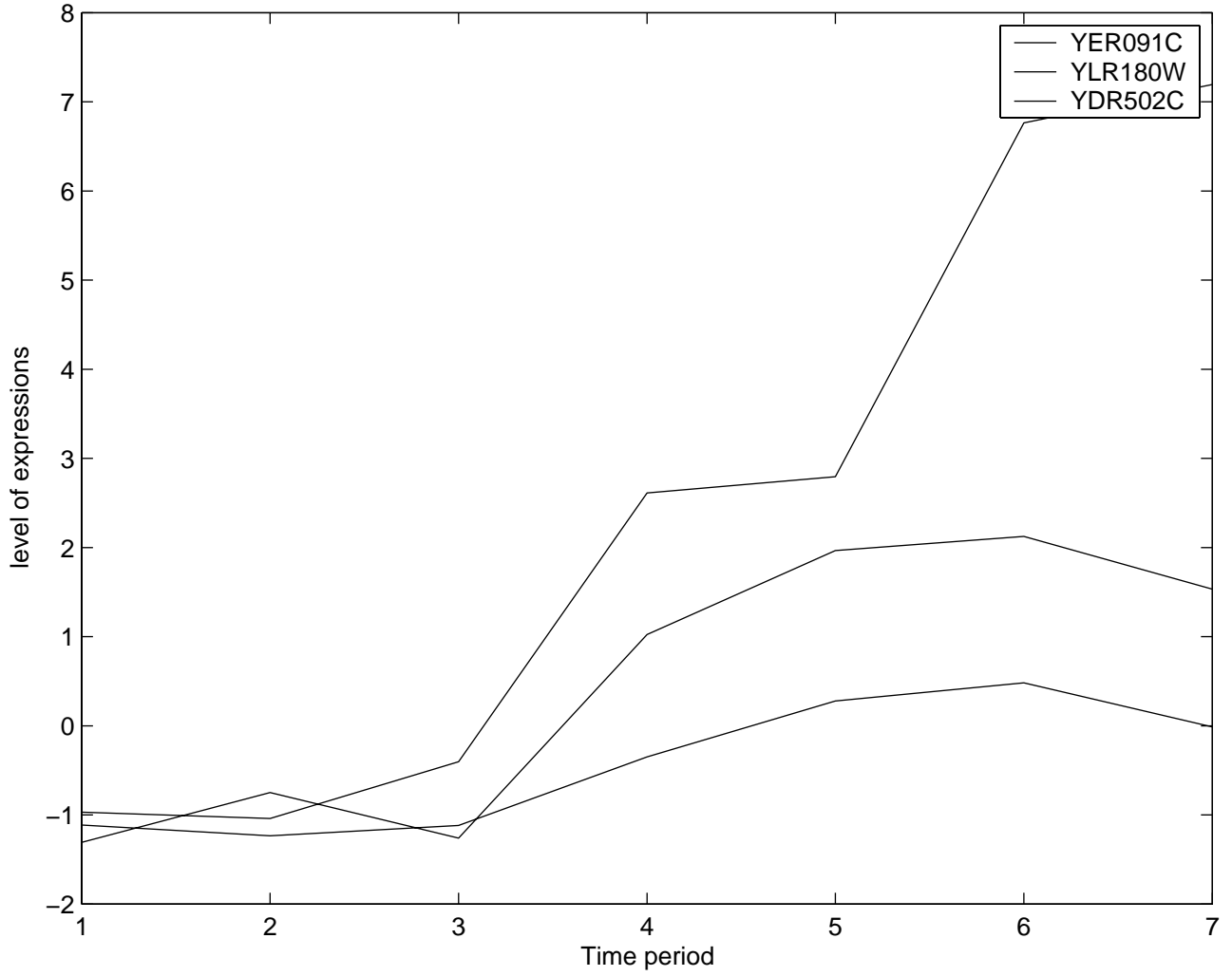
Expression of Genes involved in mannose and GDP-mannose metabolism pathway



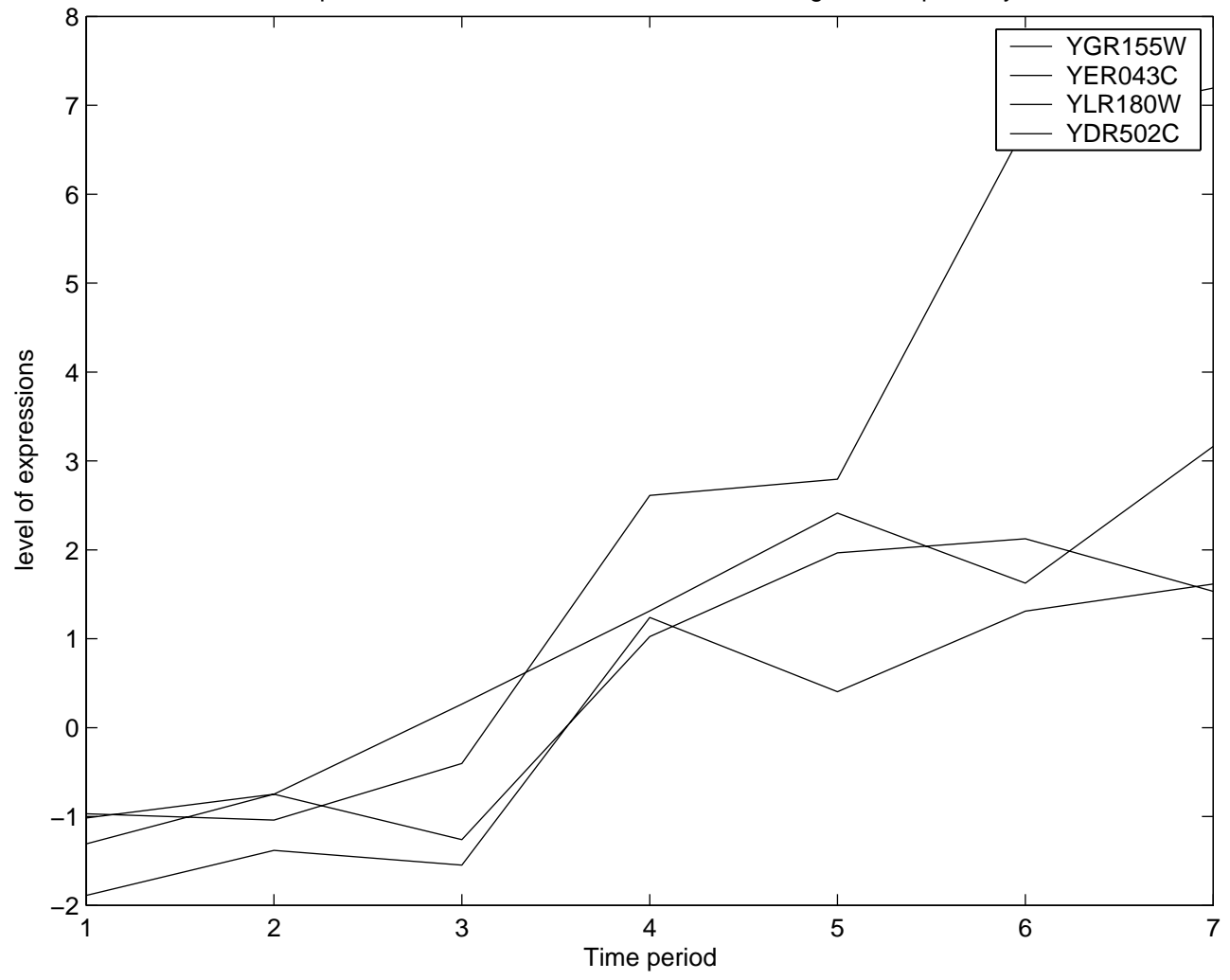
Expression of Genes involved inmannose catabolism pathway



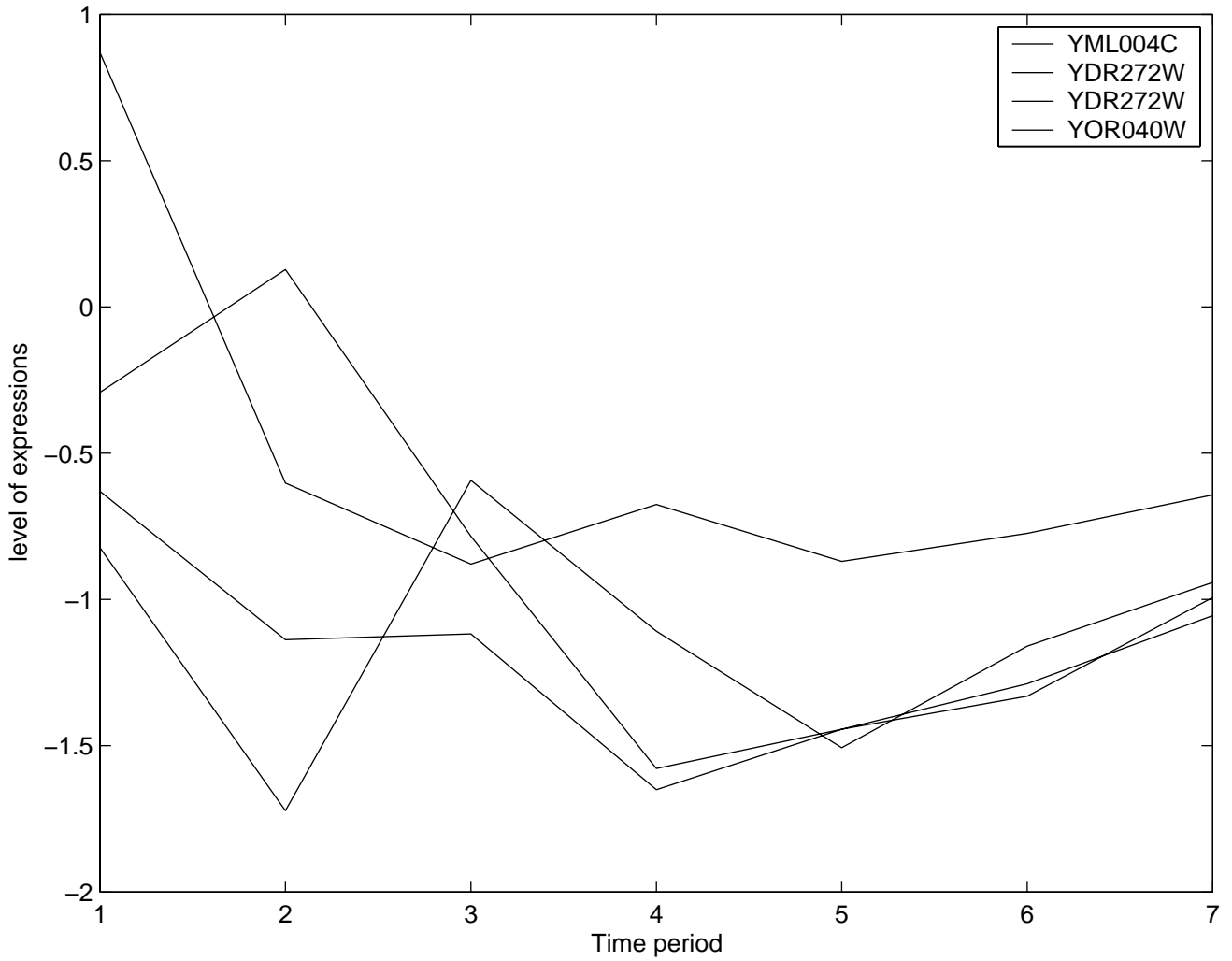
Expression of Genes involved in methionine and S-adenosylmethionine synthesis pathway



Expression of Genes involved in methionine degradation pathway

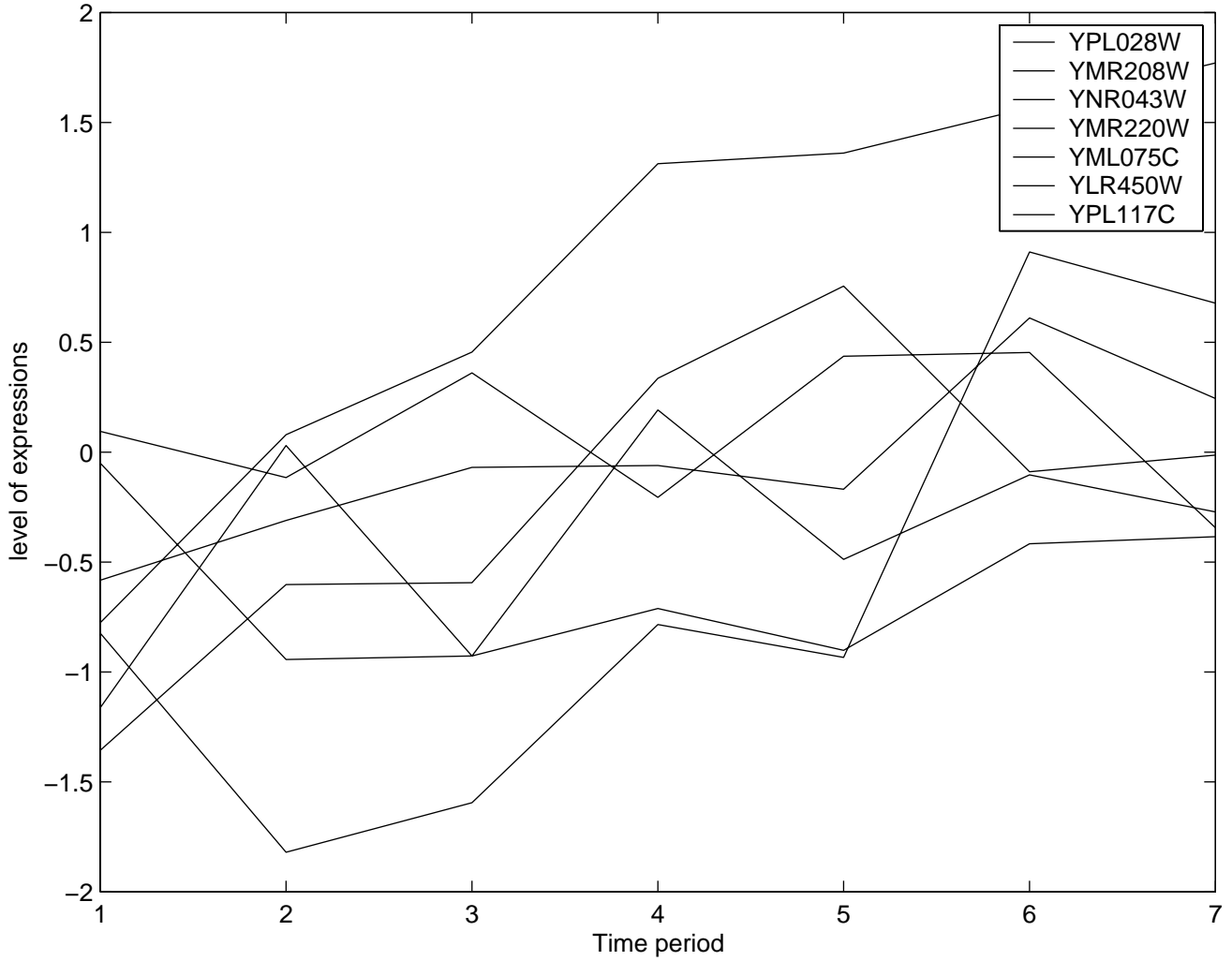


Expression of Genes involved in methylglyoxal catabolism pathway

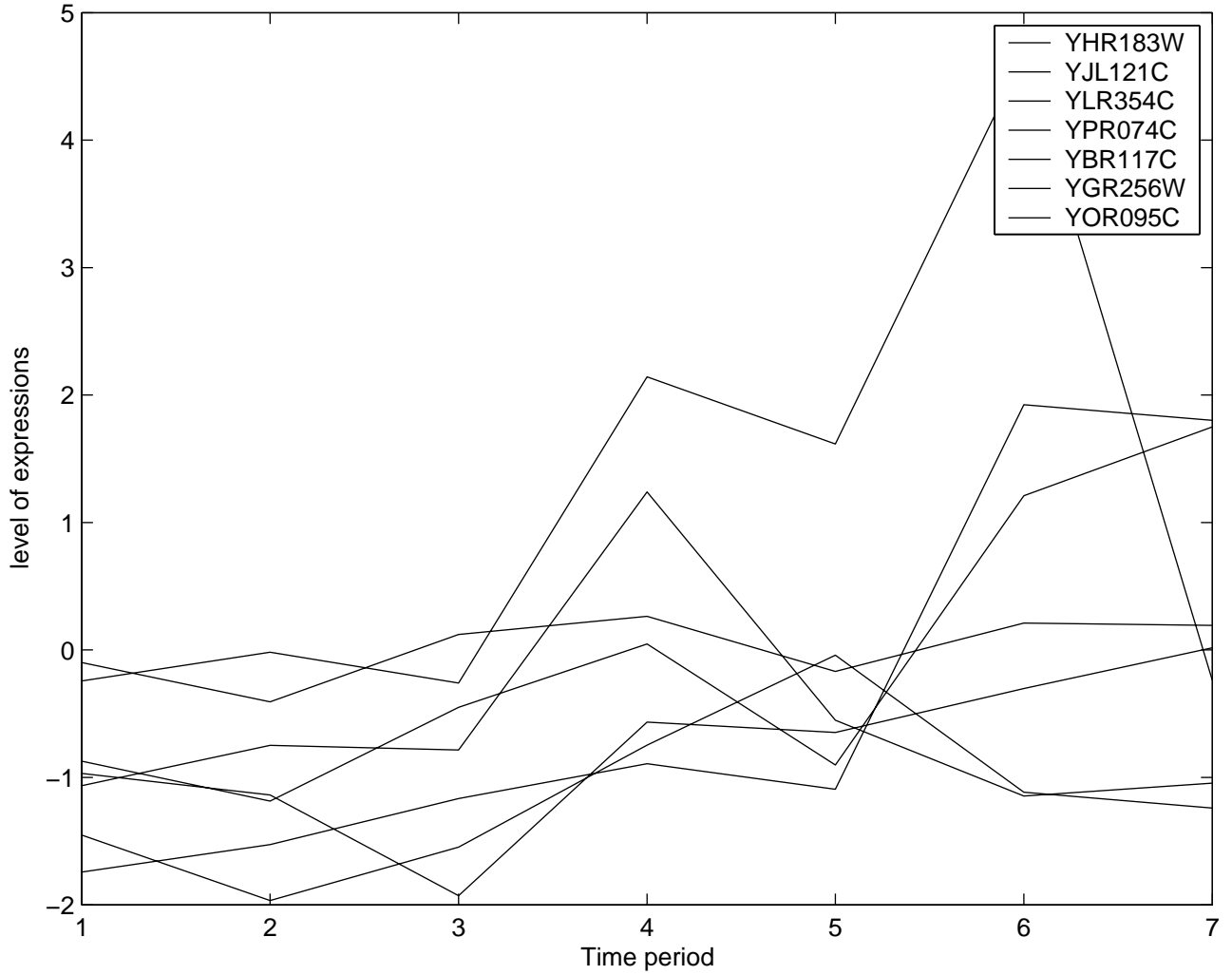




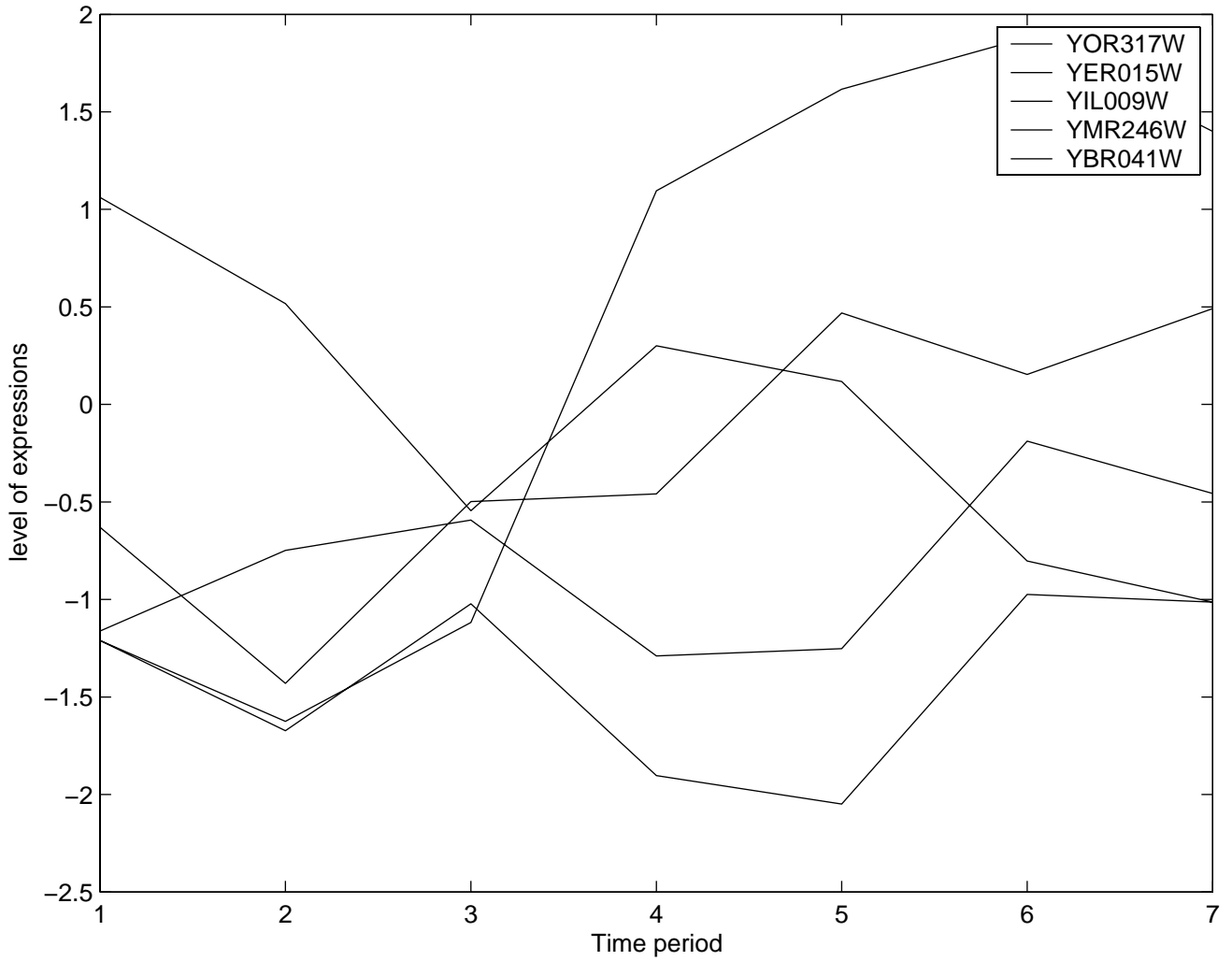
Expression of Genes involved in mevalonate pathway



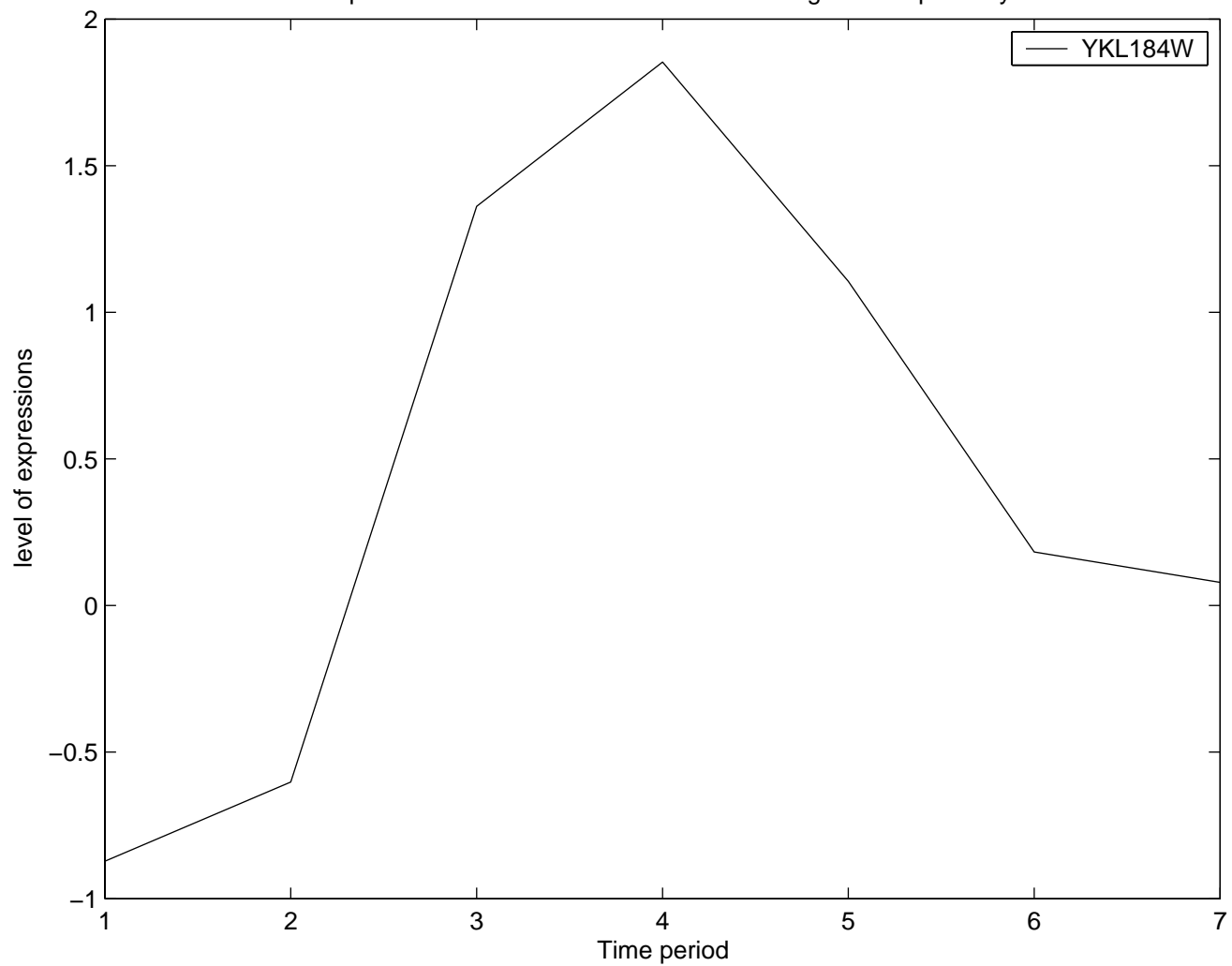
Expression of Genes involved in non-oxidative branch of the pentose phosphate pathway



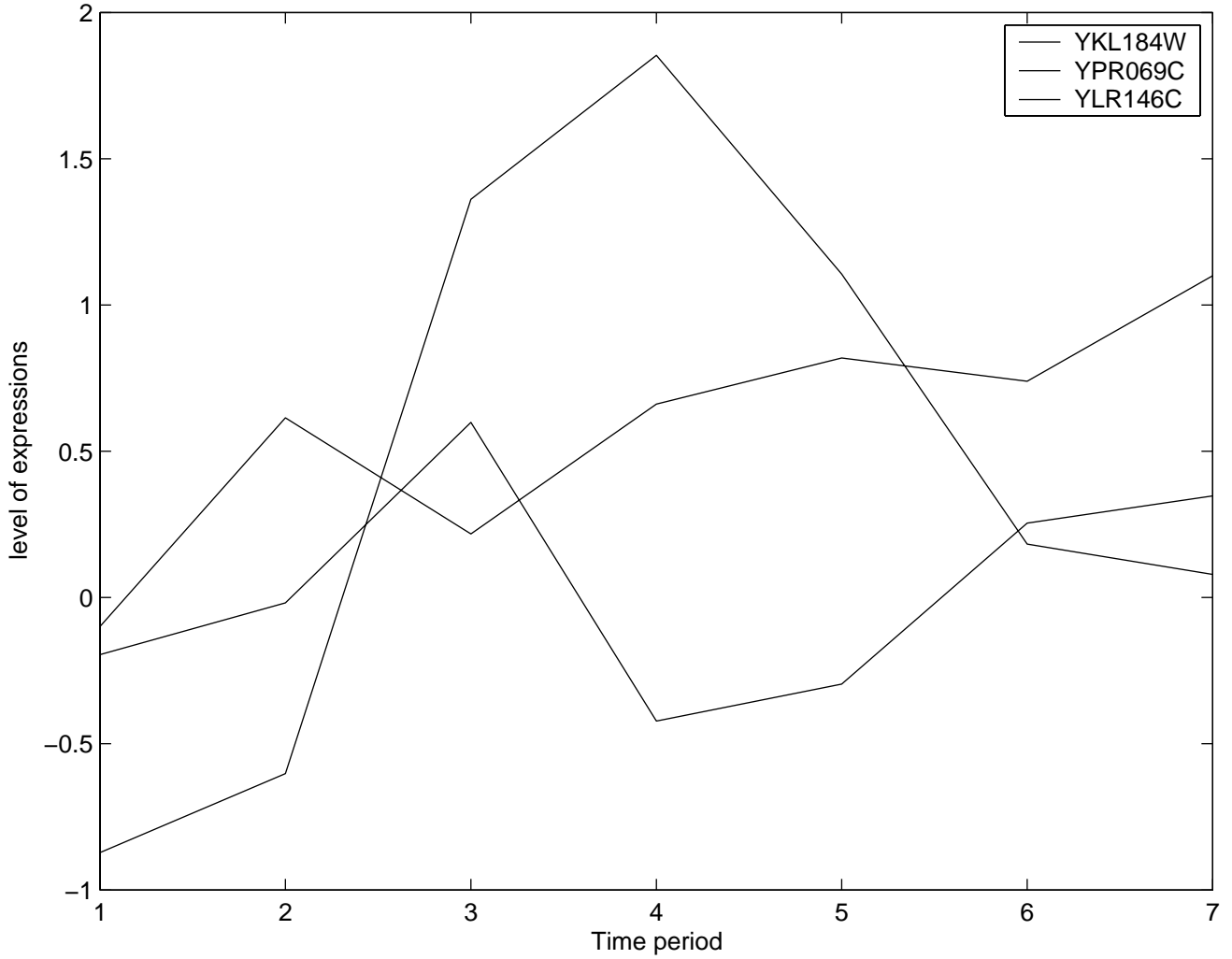
Expression of Genes involved in octane oxidation pathway



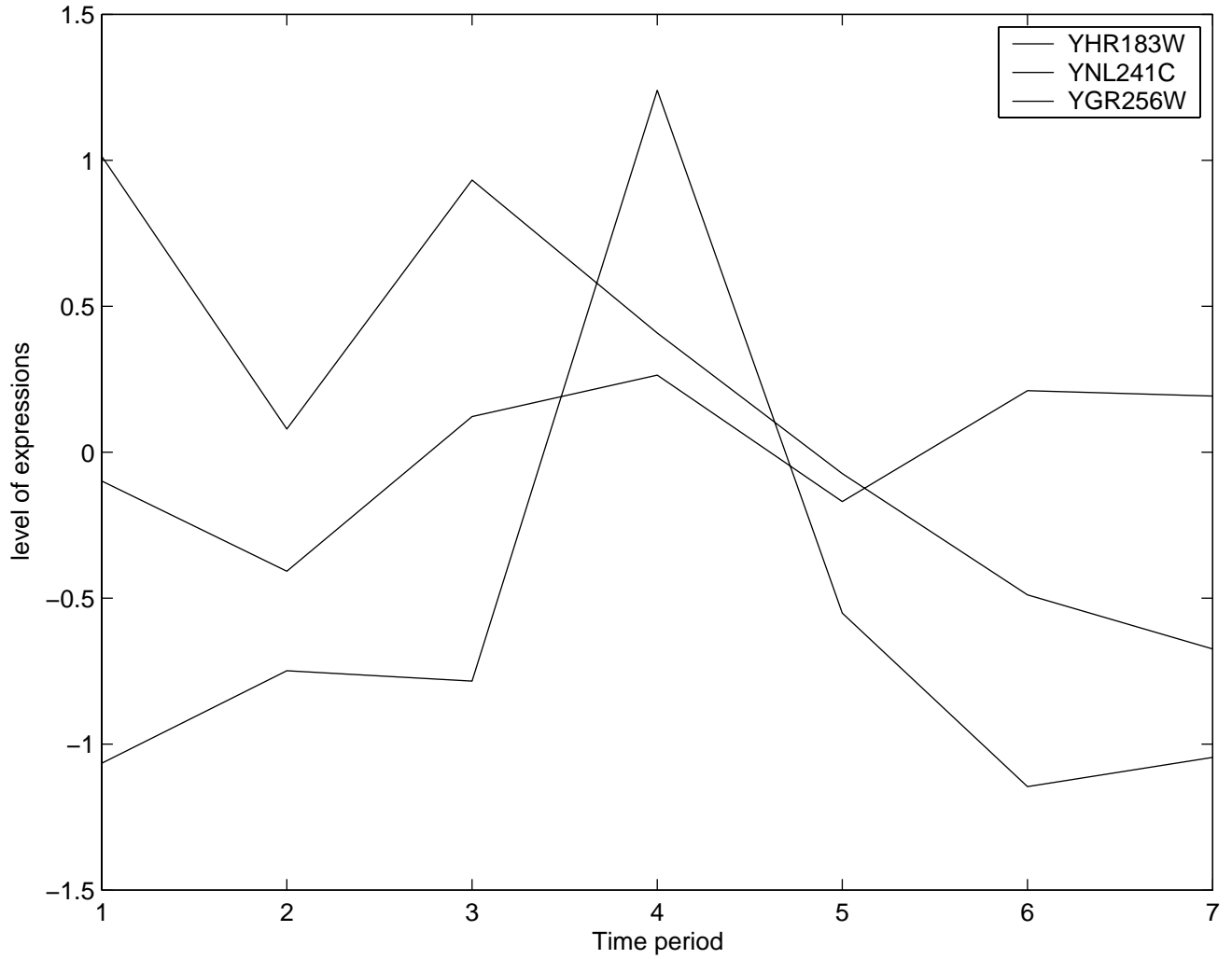
Expression of Genes involved in ornithine degradation pathway



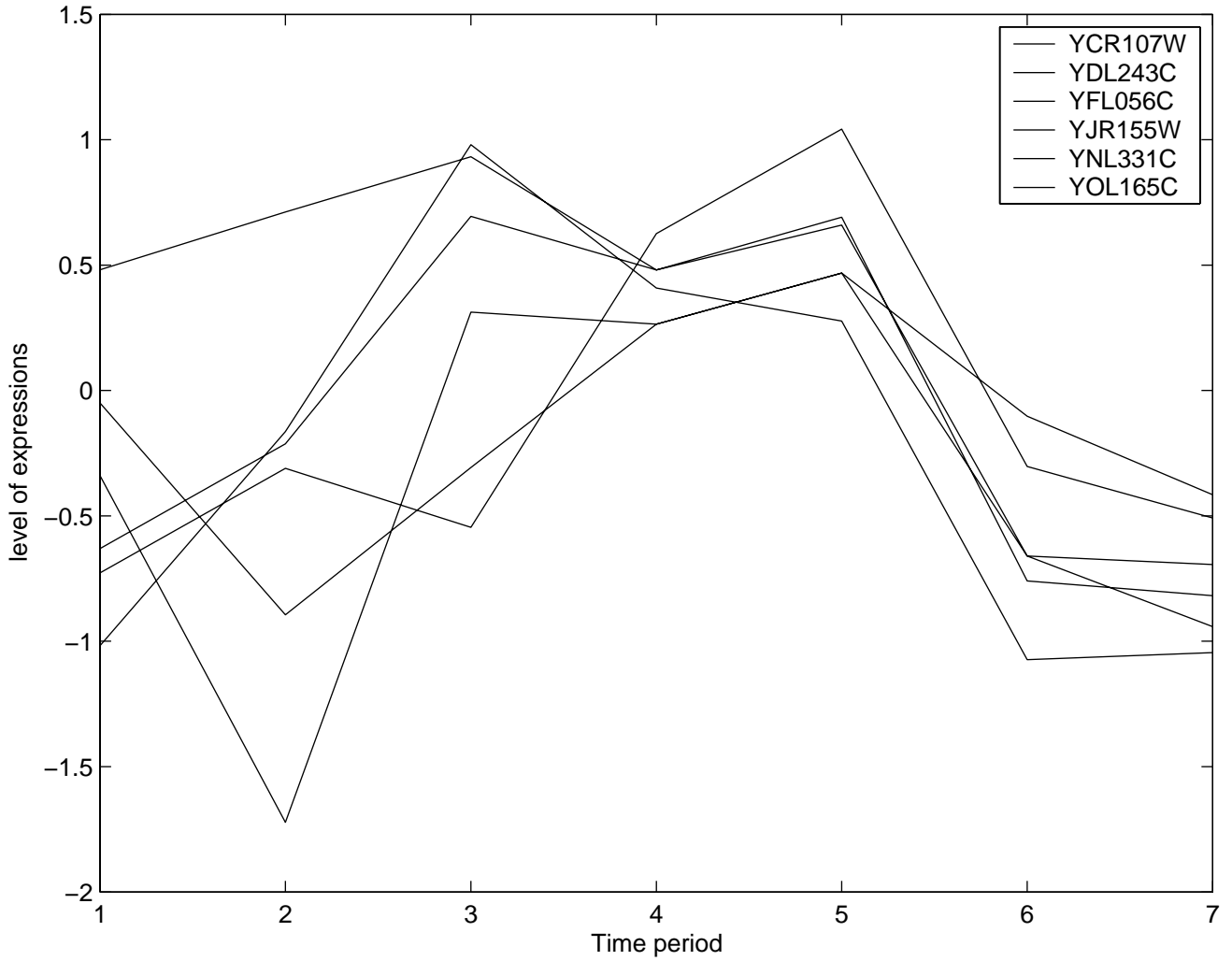
Expression of Genes involved in ornithine spermine biosynthesis pathway



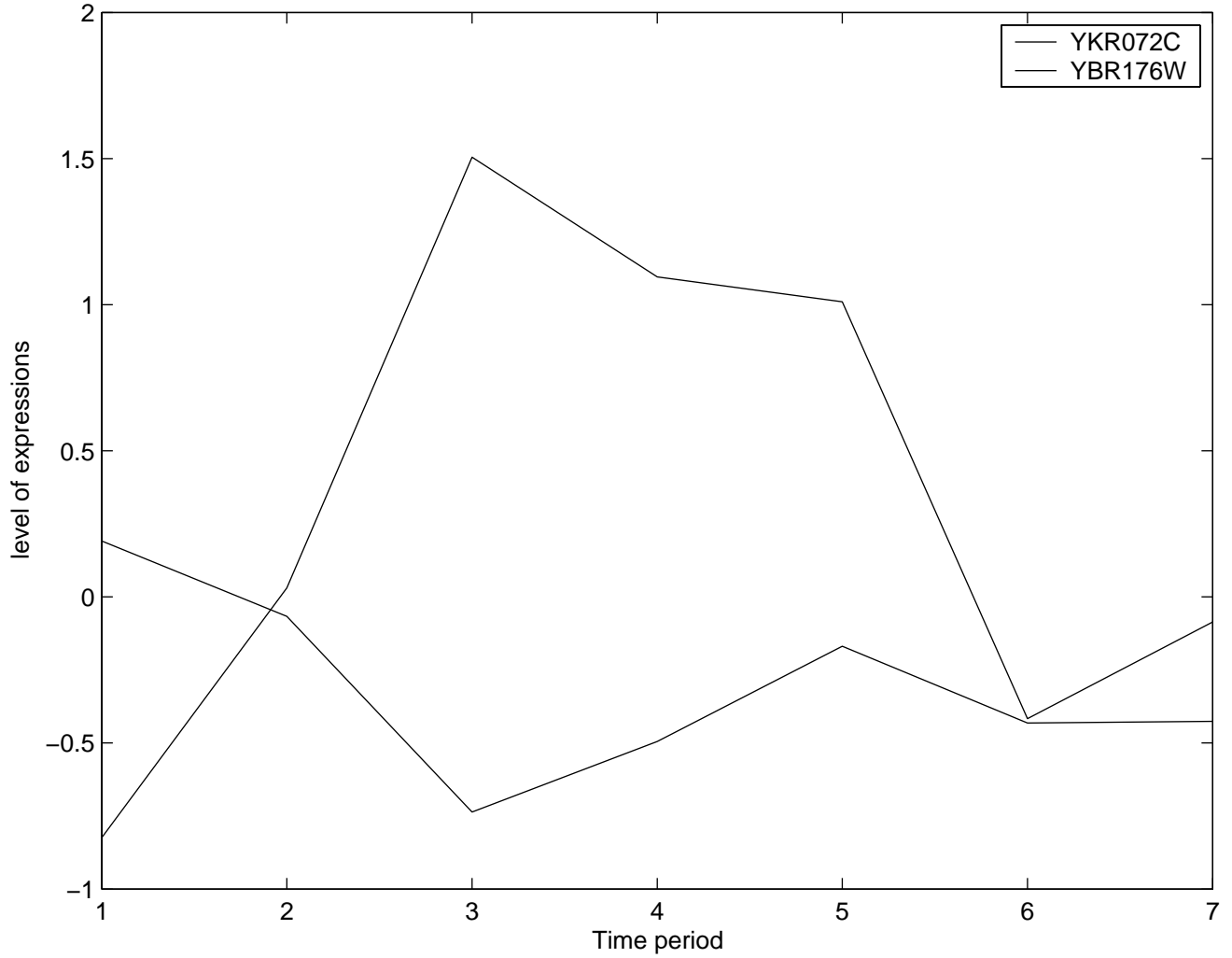
Expression of Genes involved inoxidative branch of the pentose phosphate pathway pathway



Expression of Genes involved in p-cymene degradation pathway

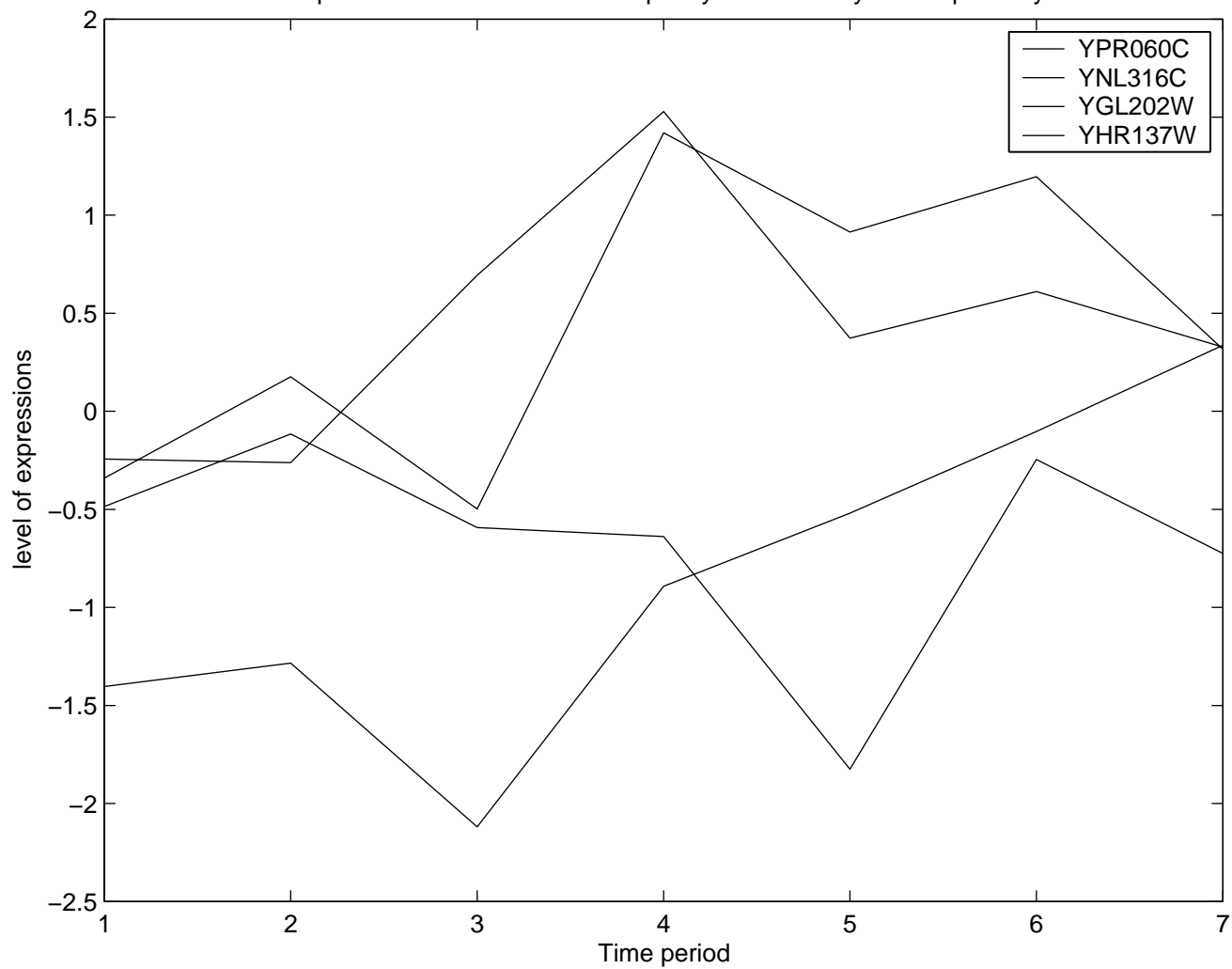


Expression of Genes involved in pantothenate and coenzyme A biosynthesis pathway

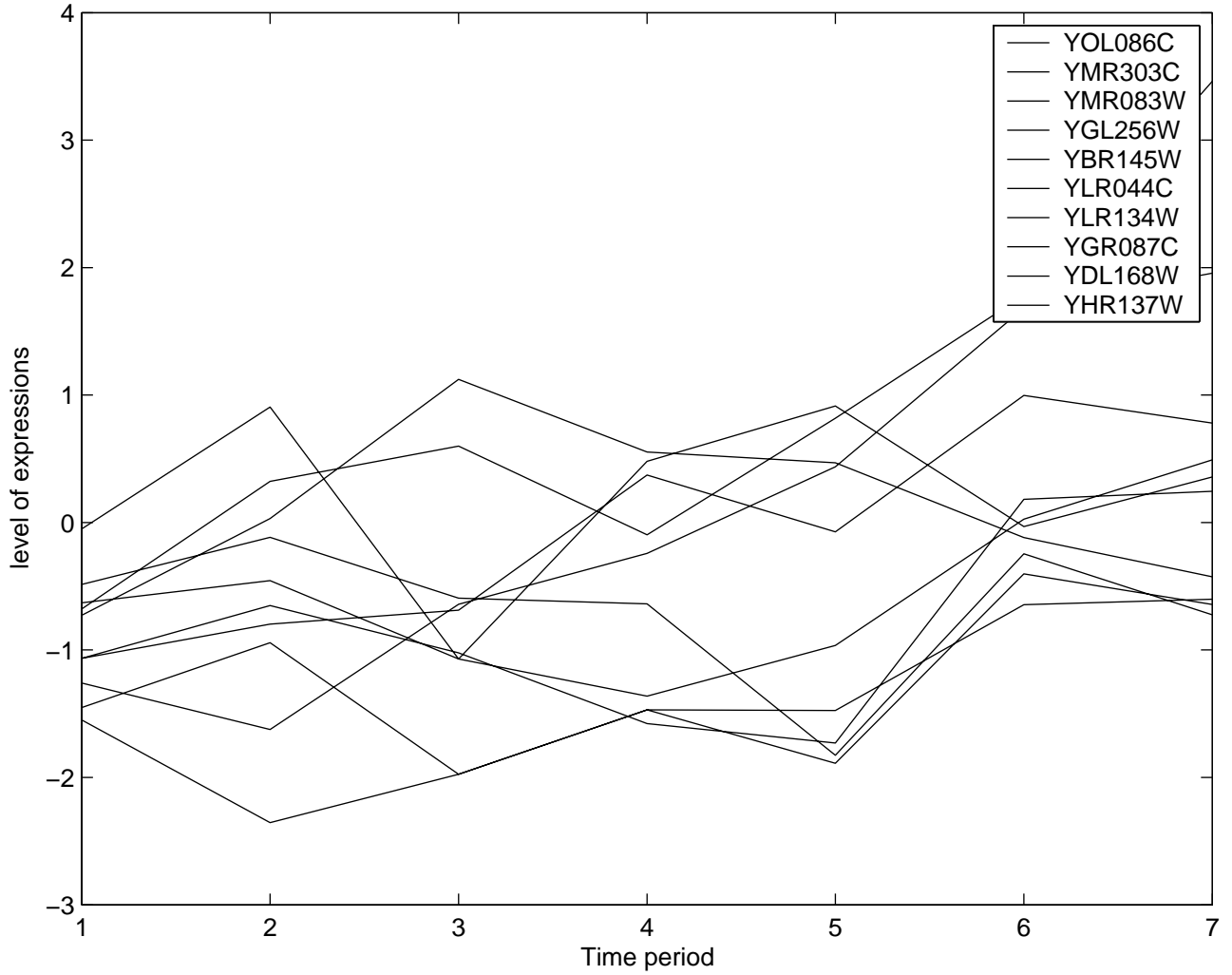




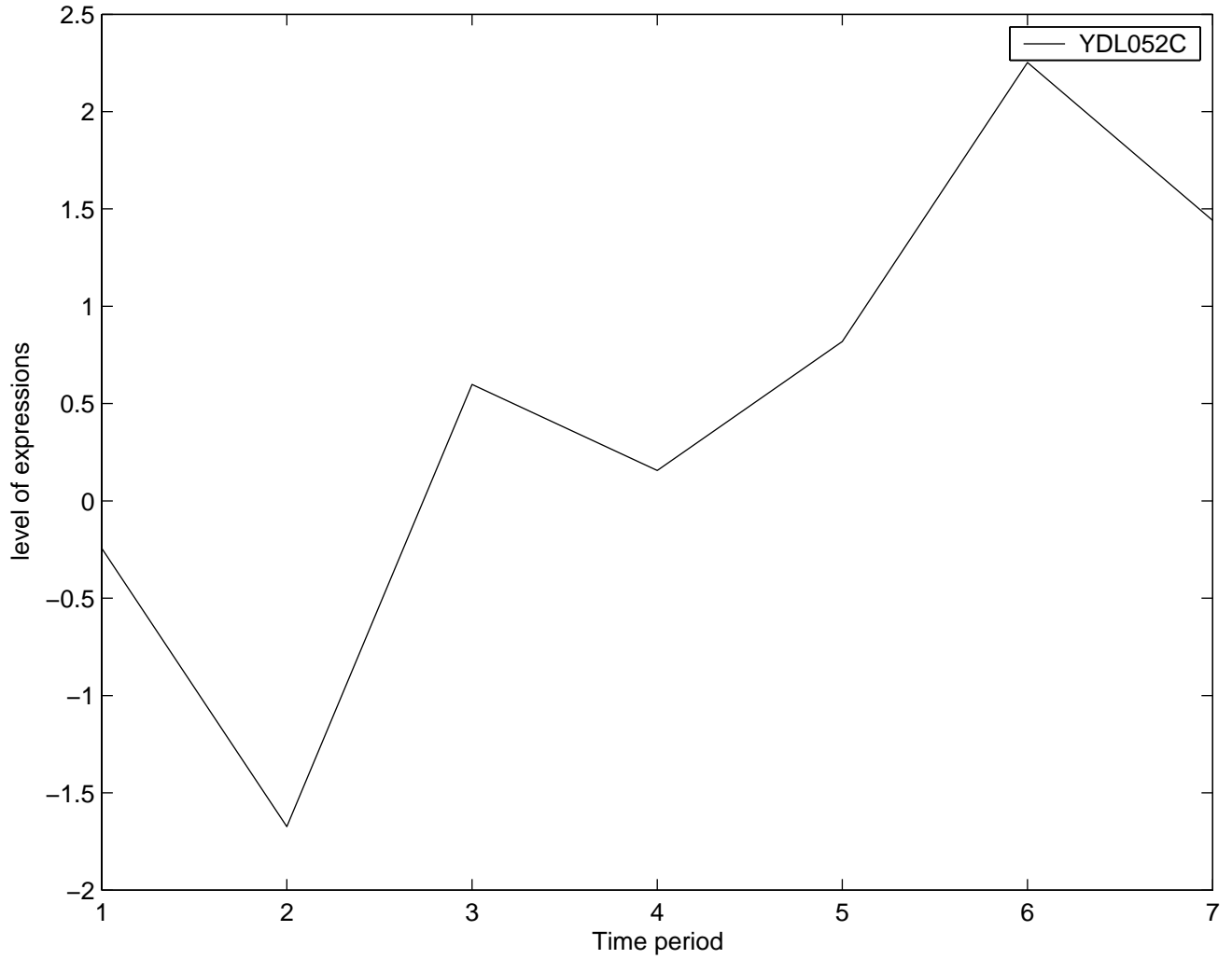
Expression of Genes involved in phenylalanine biosynthesis pathway



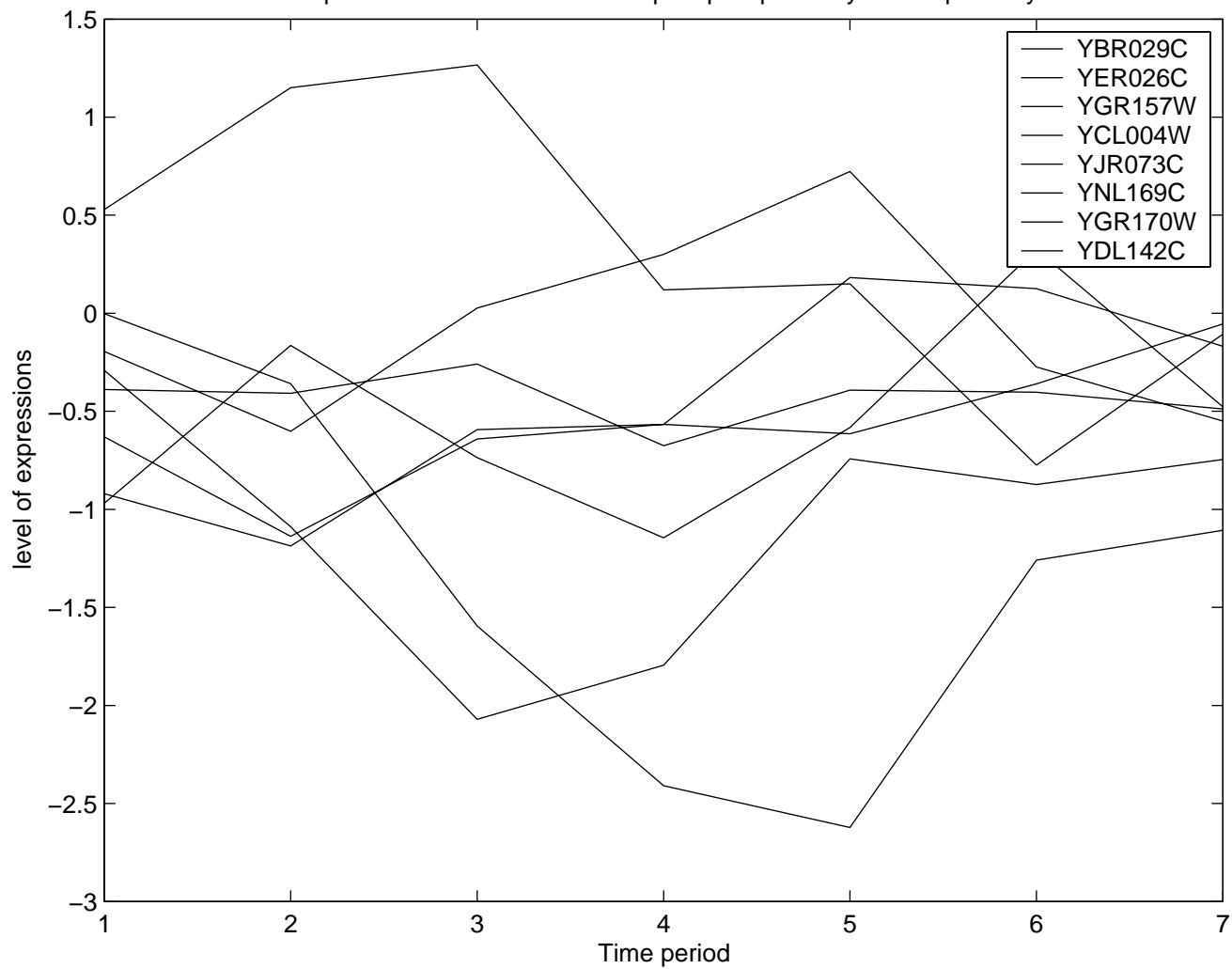
Expression of Genes involved in phenylalanine degradation pathway



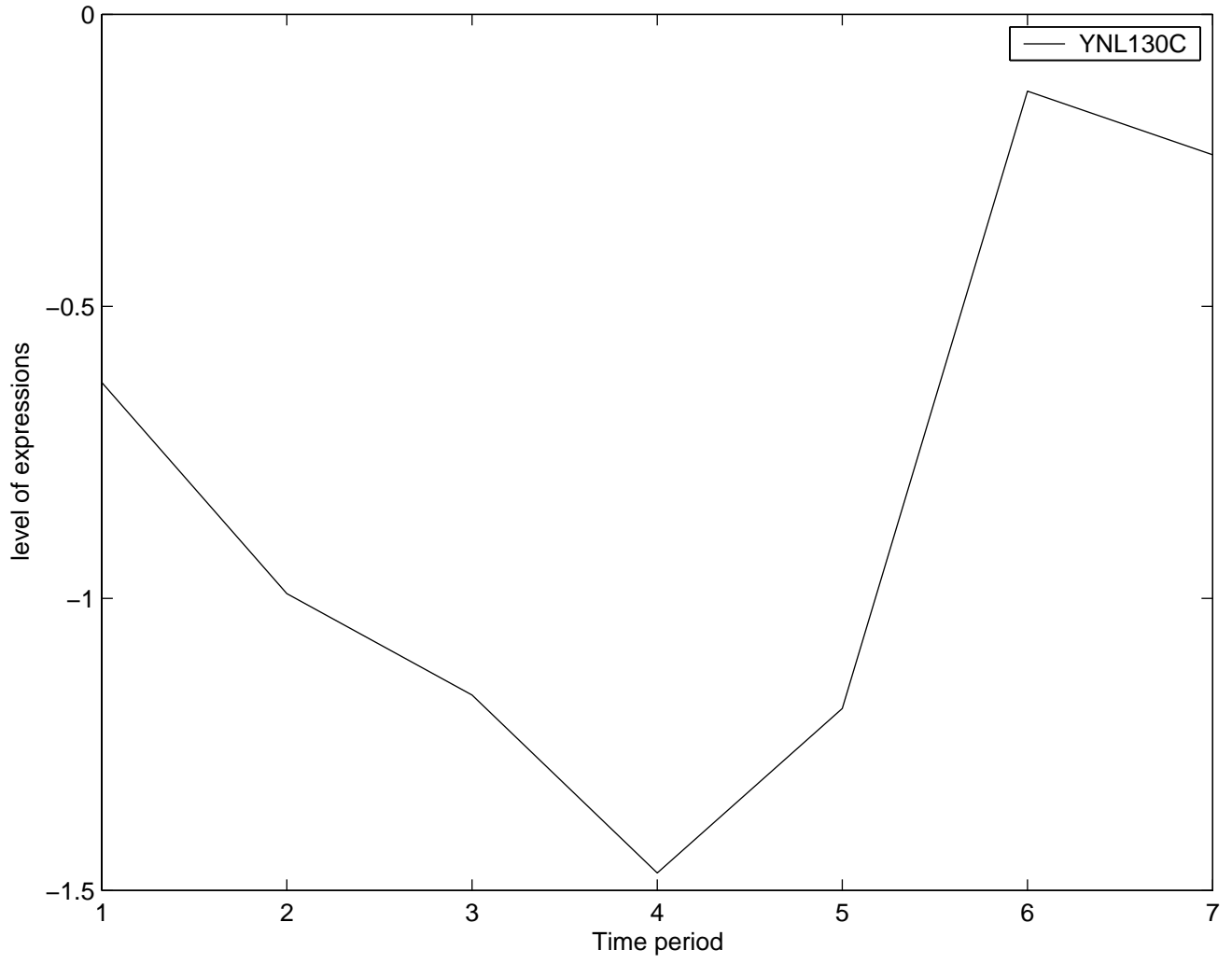
Expression of Genes involved in phosphatidic acid synthesis pathway



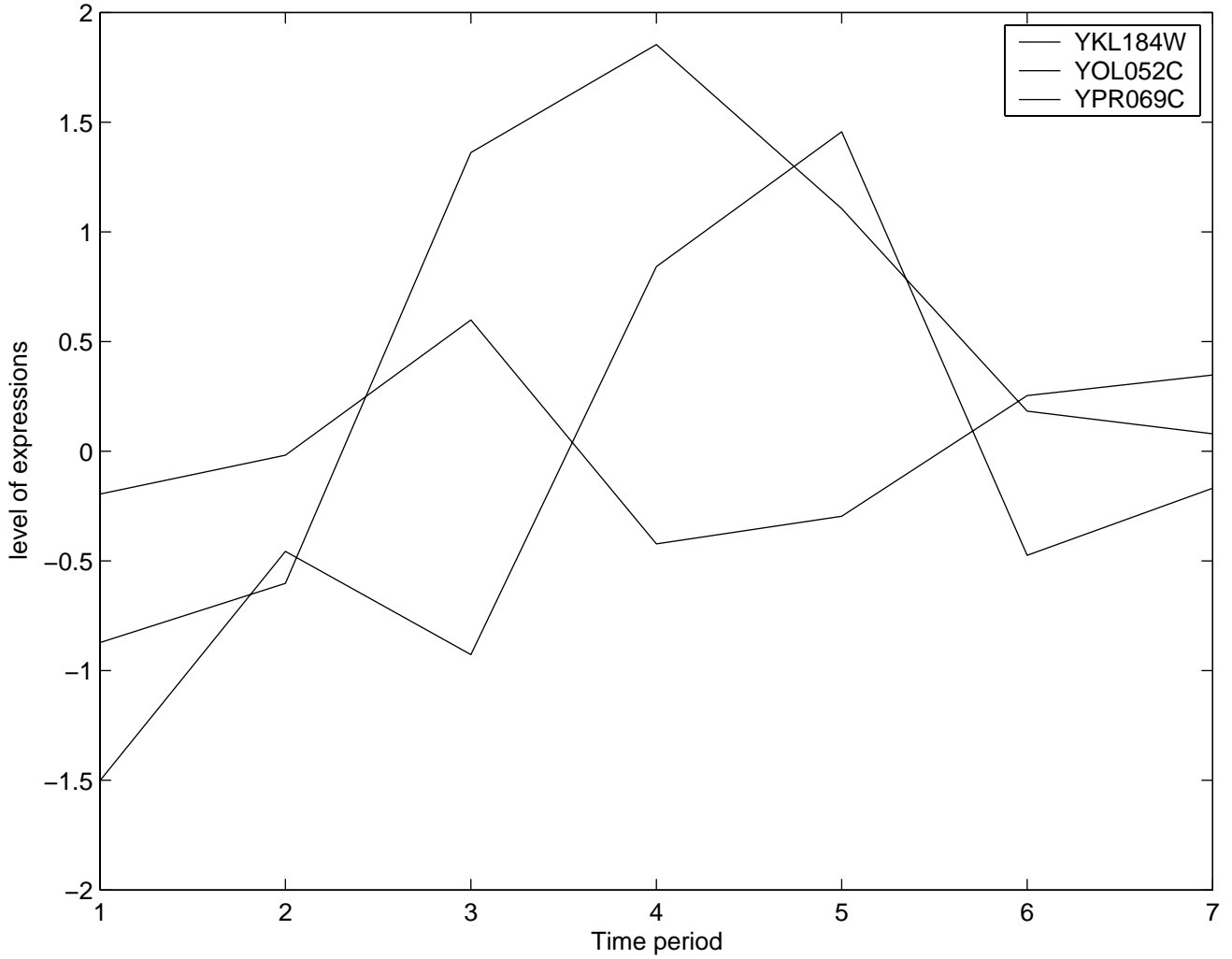
Expression of Genes involved in phospholipid biosynthesis pathway



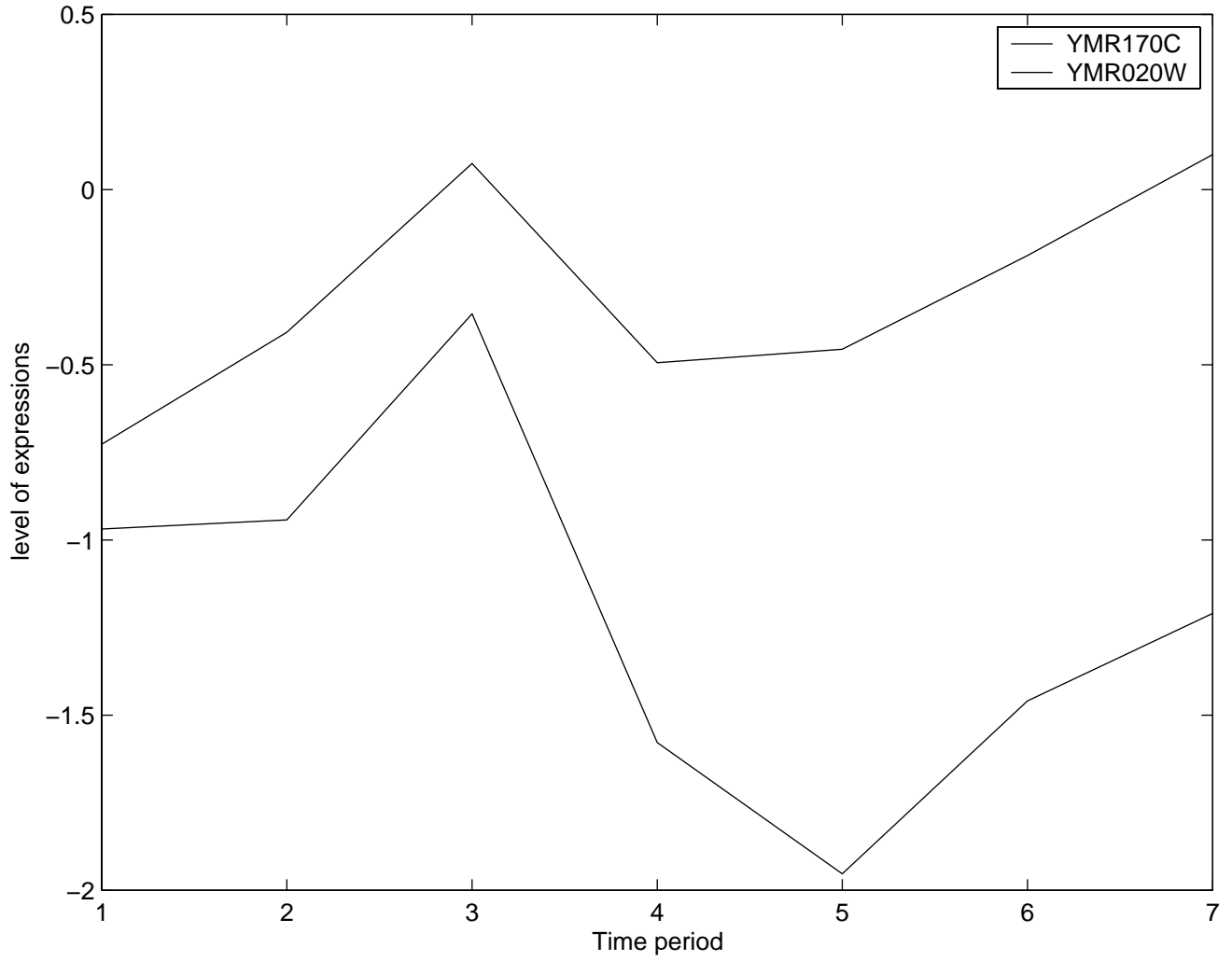
Expression of Genes involved in phospholipid biosynthesis (Kennedy pathway) pathway



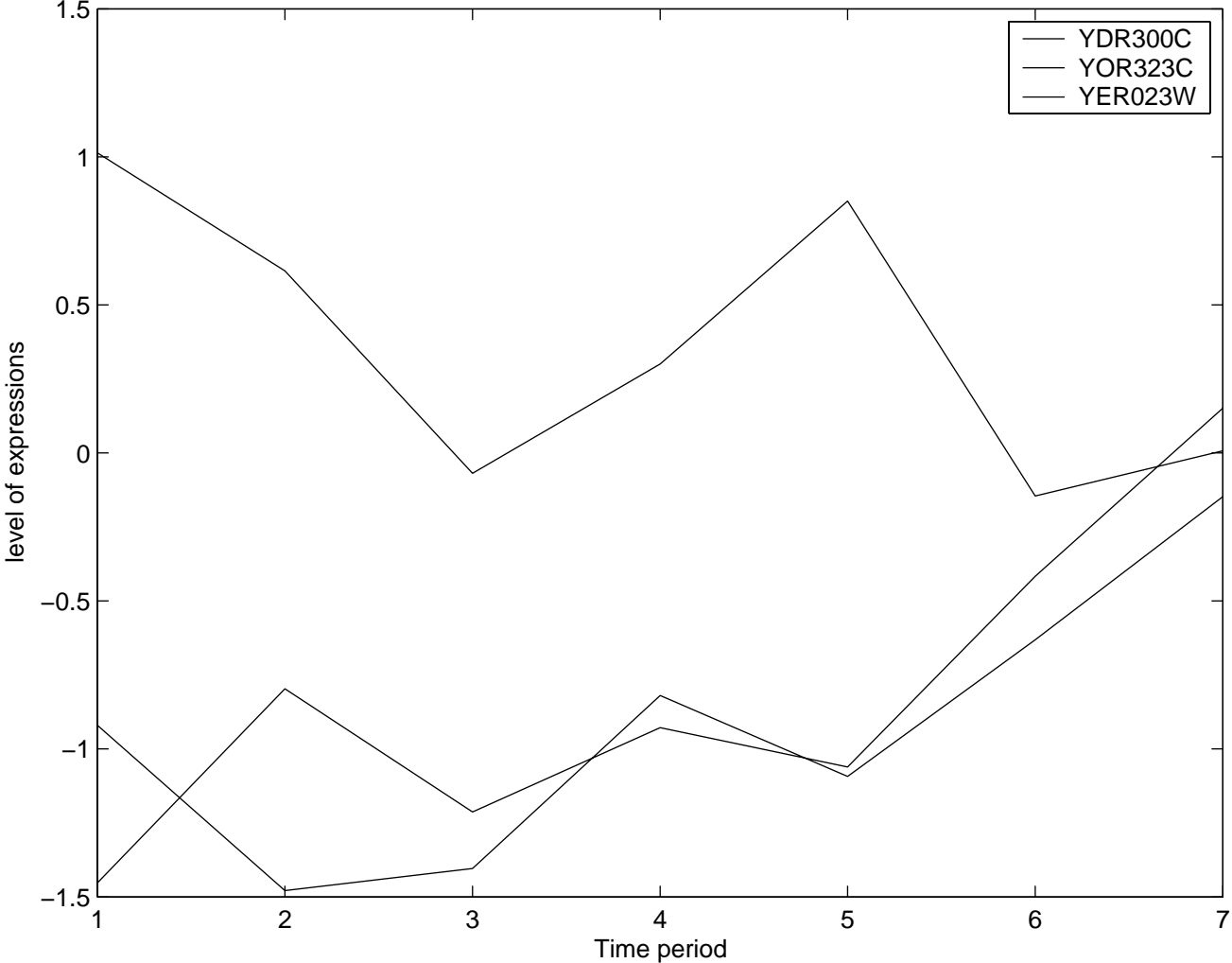
Expression of Genes involved in polyamine biosynthesis pathway



Expression of Genes involved in polyamine degradation pathway

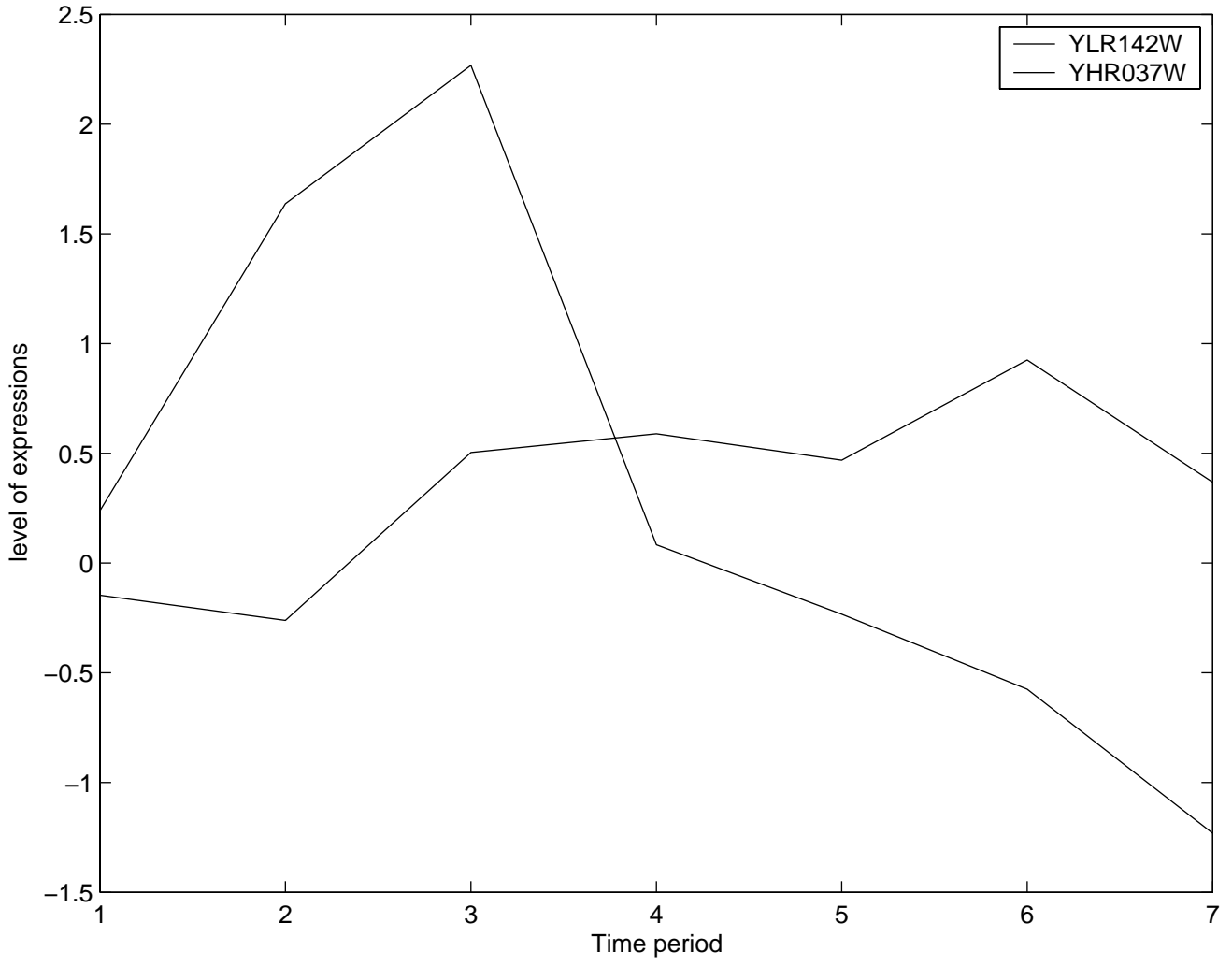


Expression of Genes involved inproline biosynthesis pathway

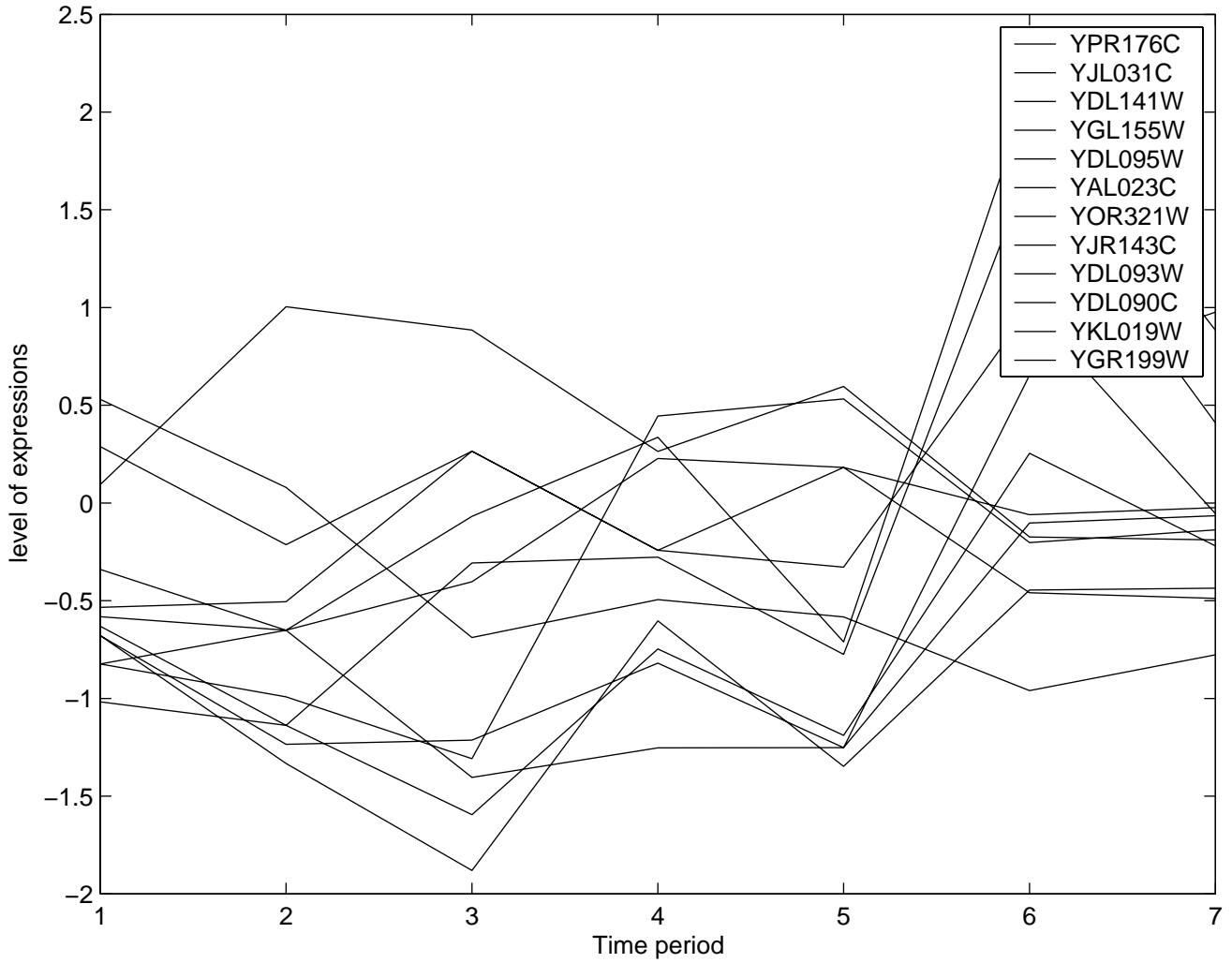




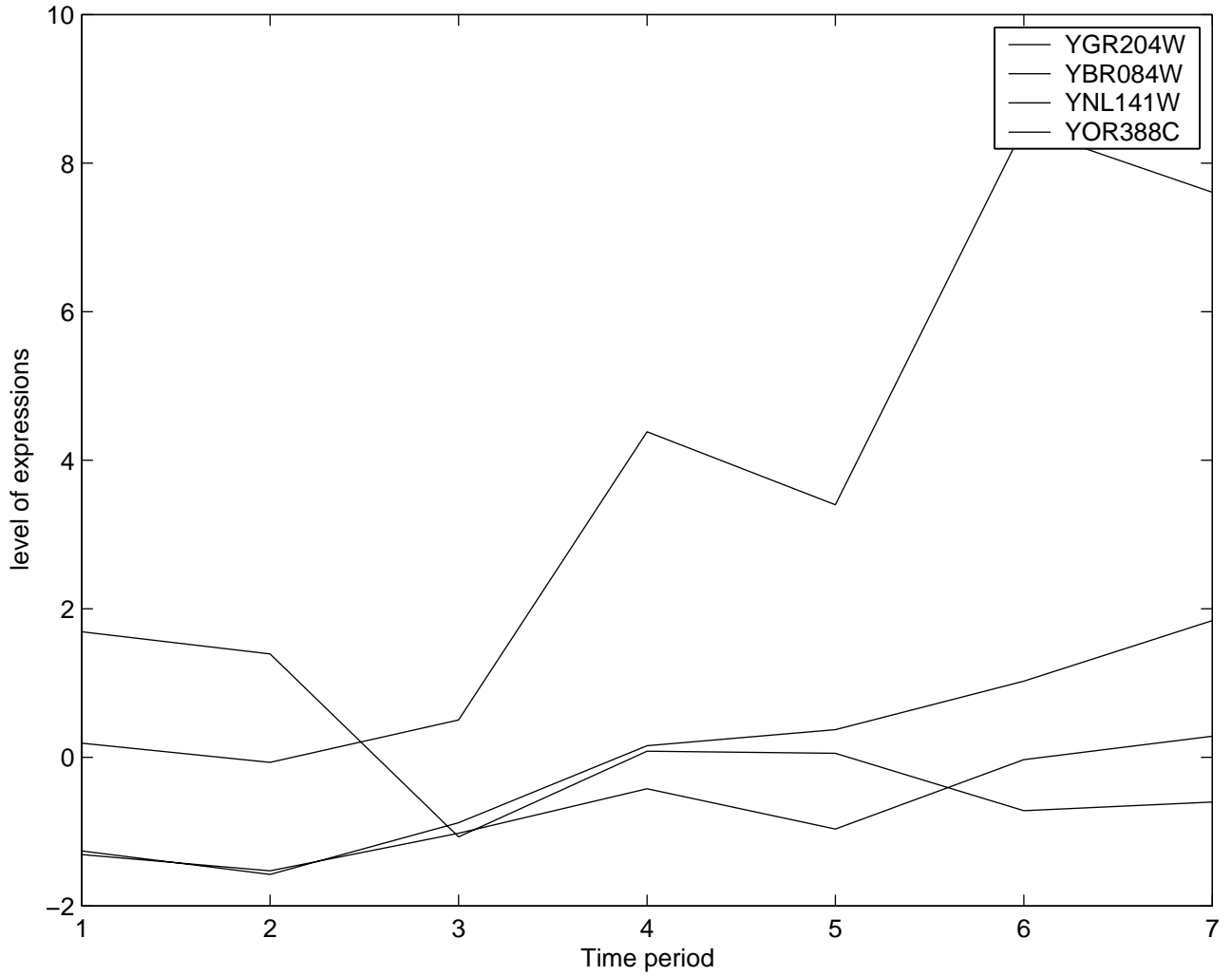
Expression of Genes involved in proline utilization pathway



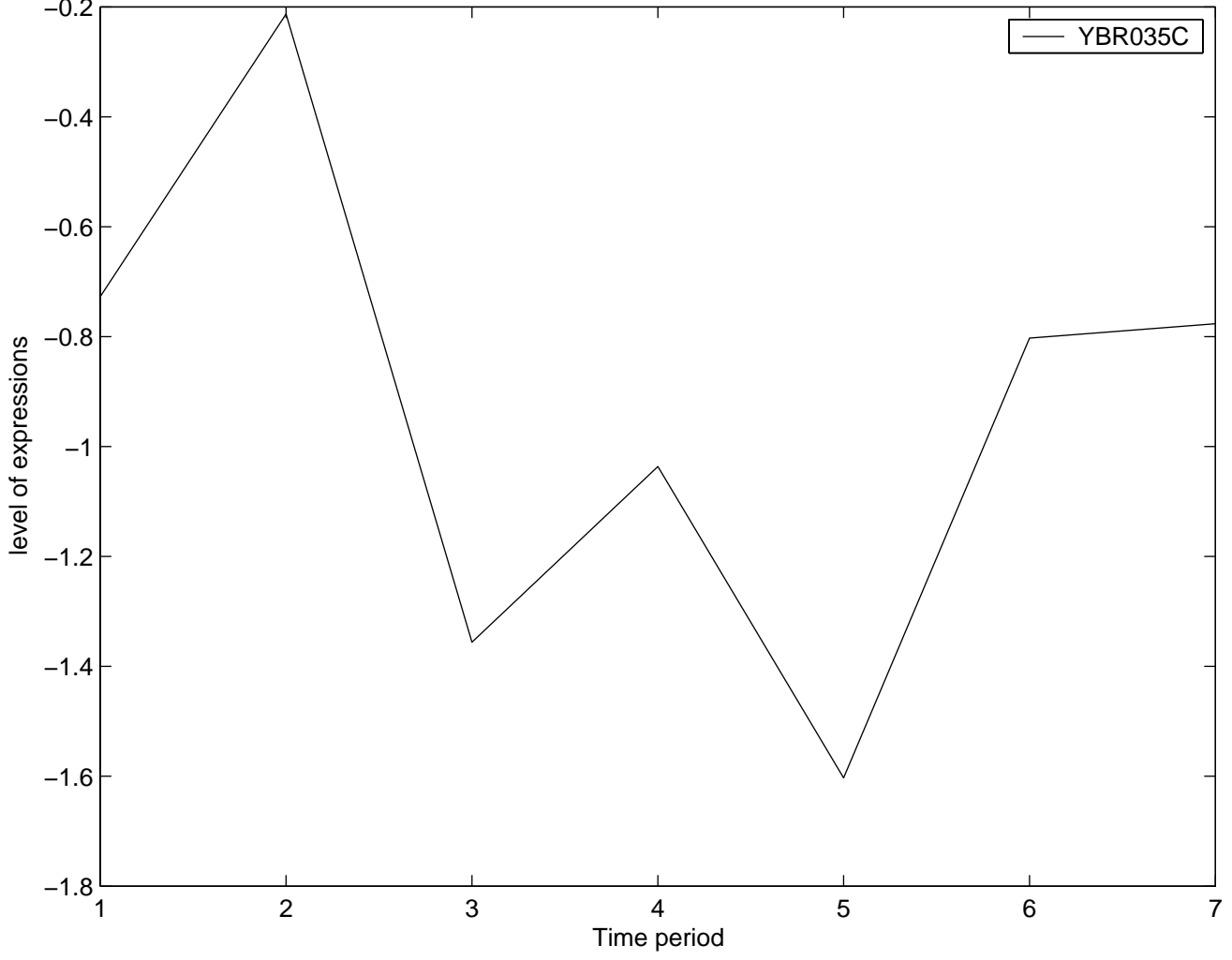
Expression of Genes involved in protein modifications pathway



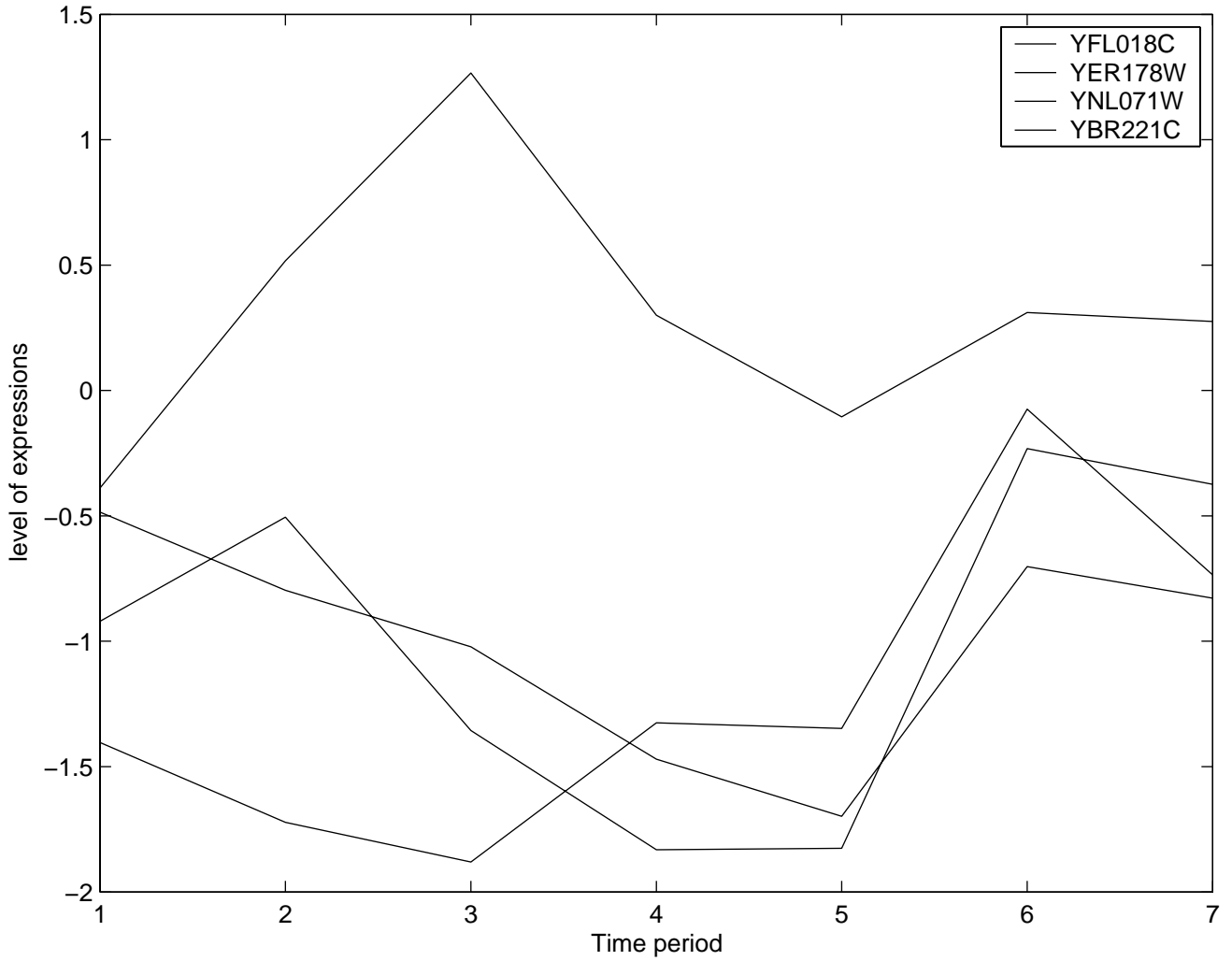
Expression of Genes involved in purine fermentation pathway



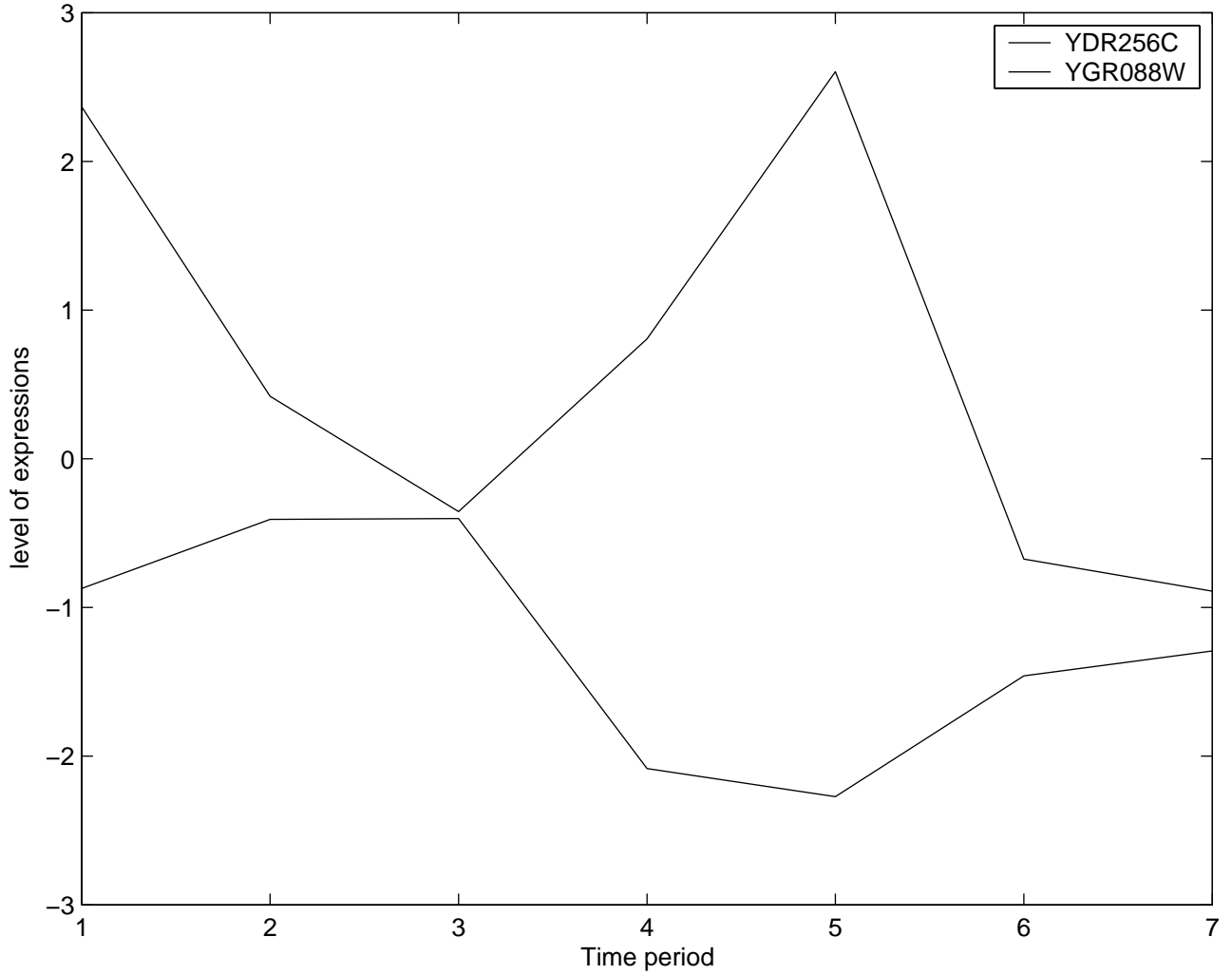
Expression of Genes involved in pyridoxal 5'-phosphate salvage pathway



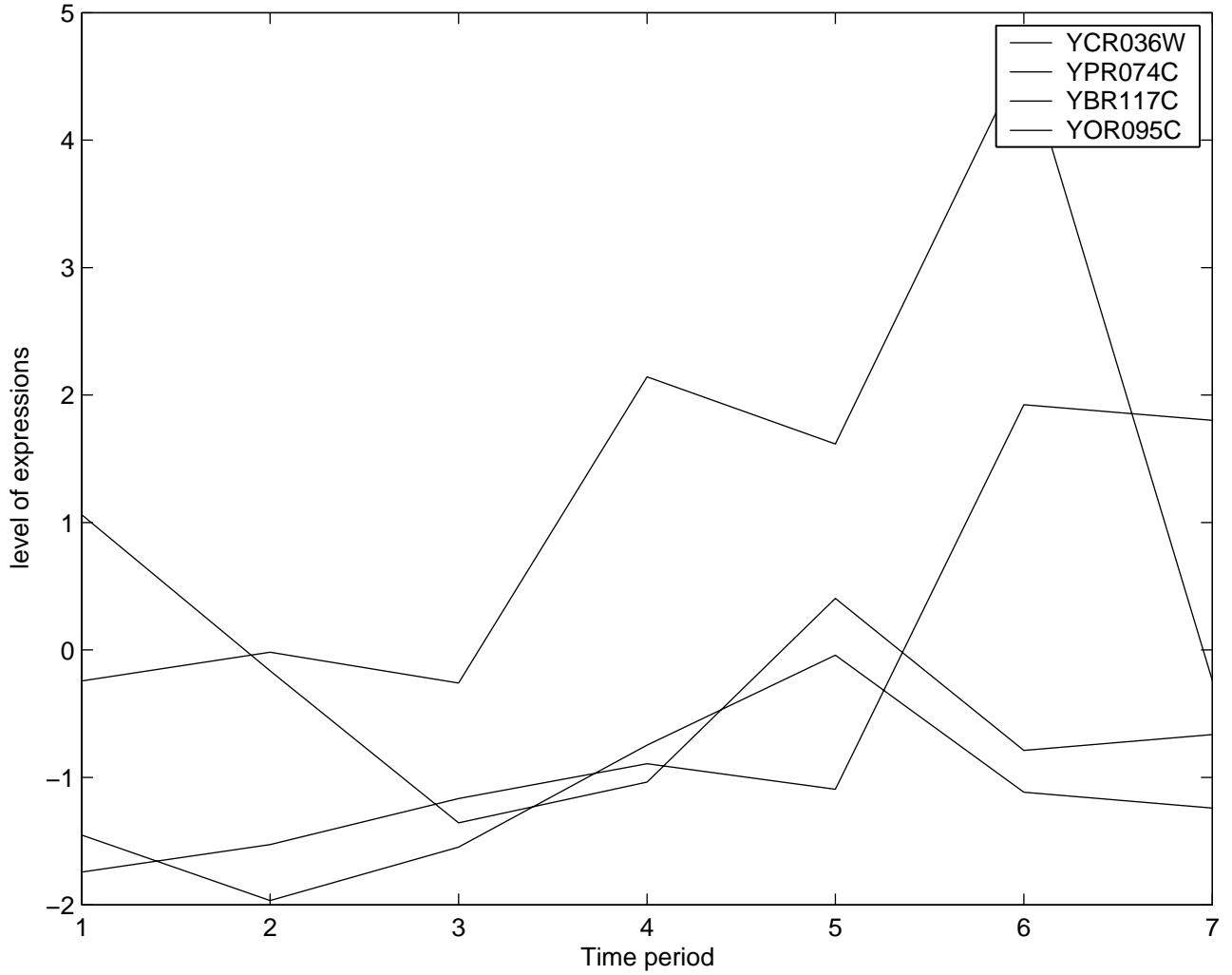
Expression of Genes involved in pyruvate dehydrogenase pathway



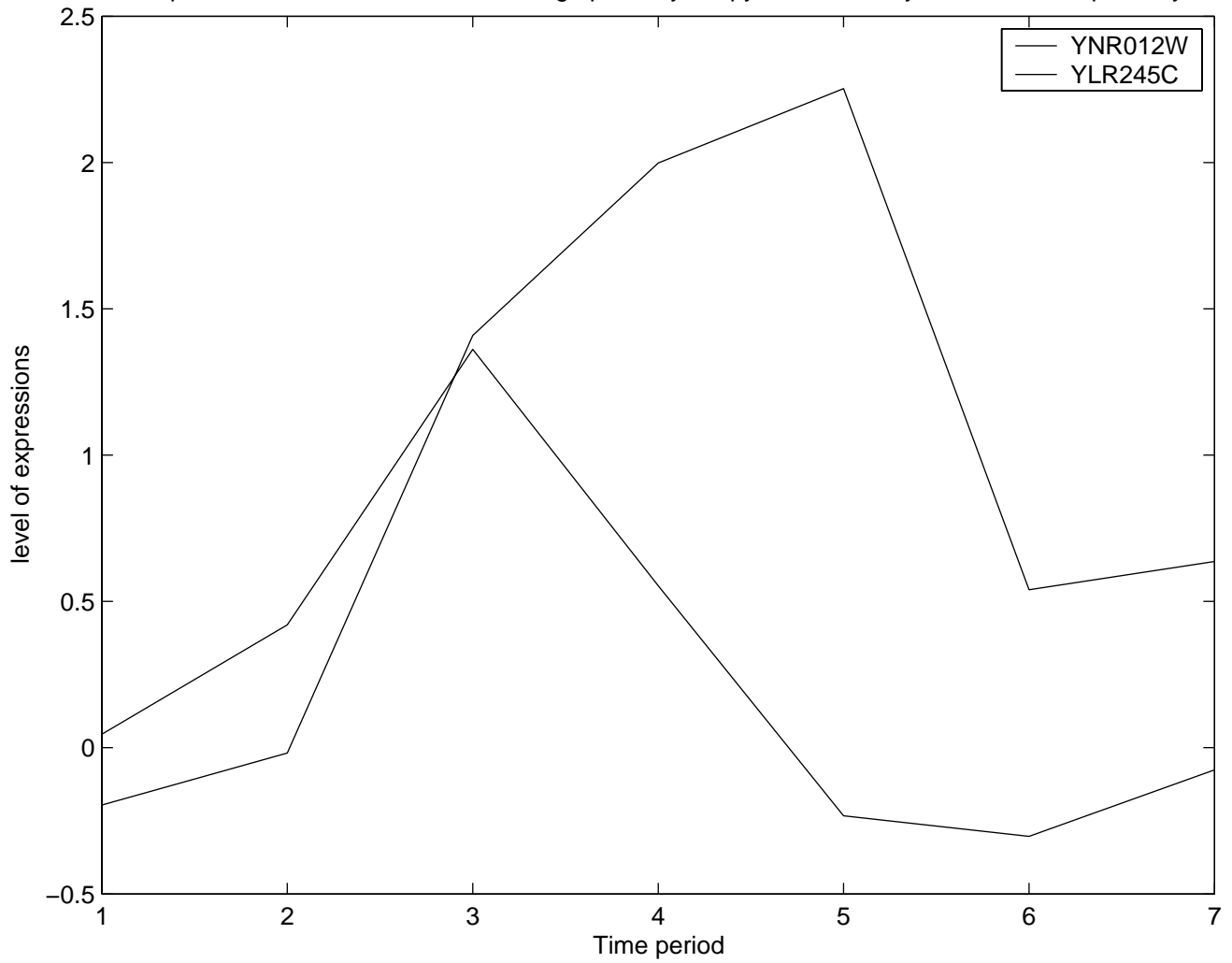
Expression of Genes involved in removal of superoxide radicals pathway



Expression of Genes involved inribose catabolism pathway

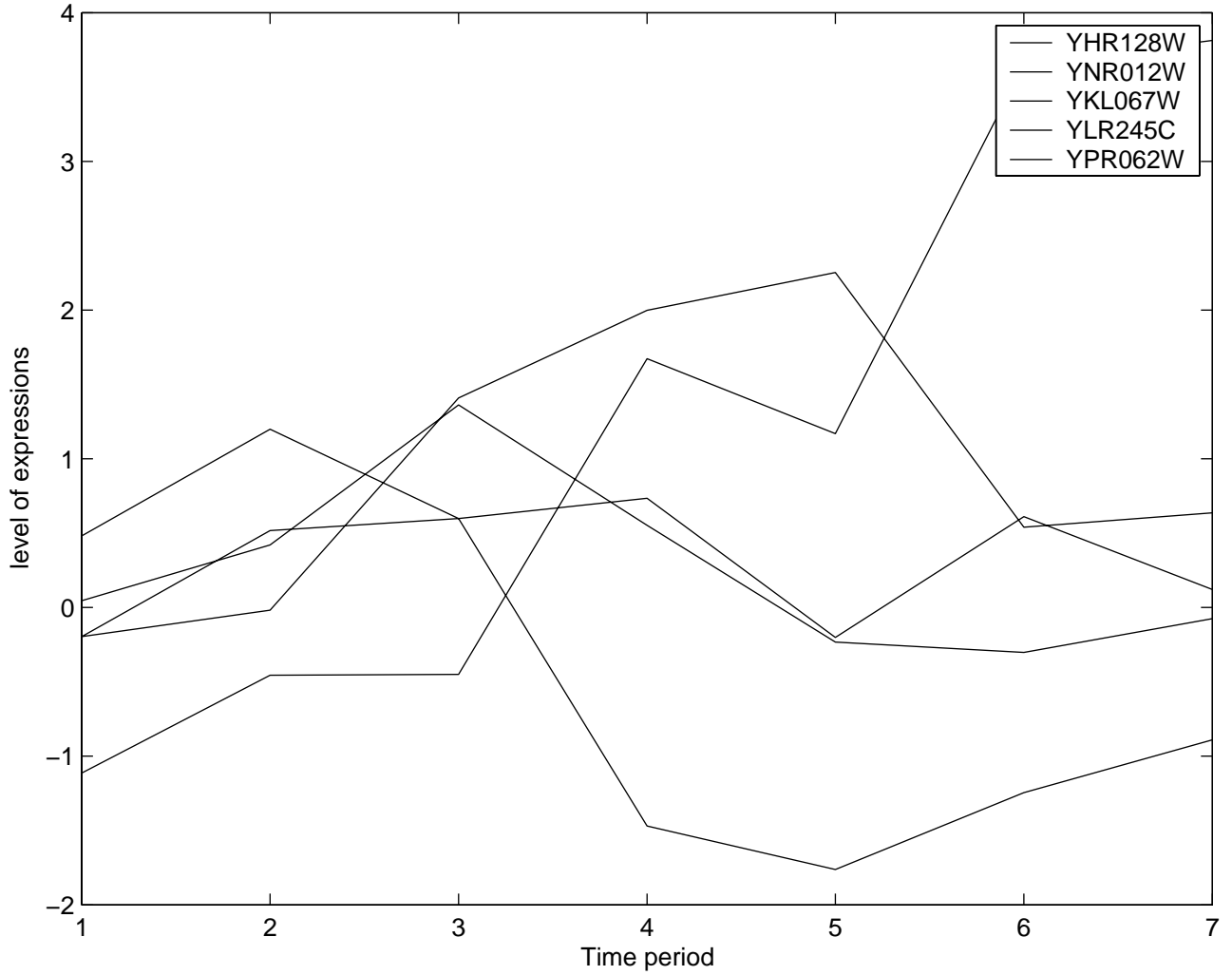


Expression of Genes involved insalvage pathways of pyrimidine deoxyribonucleotides pathway

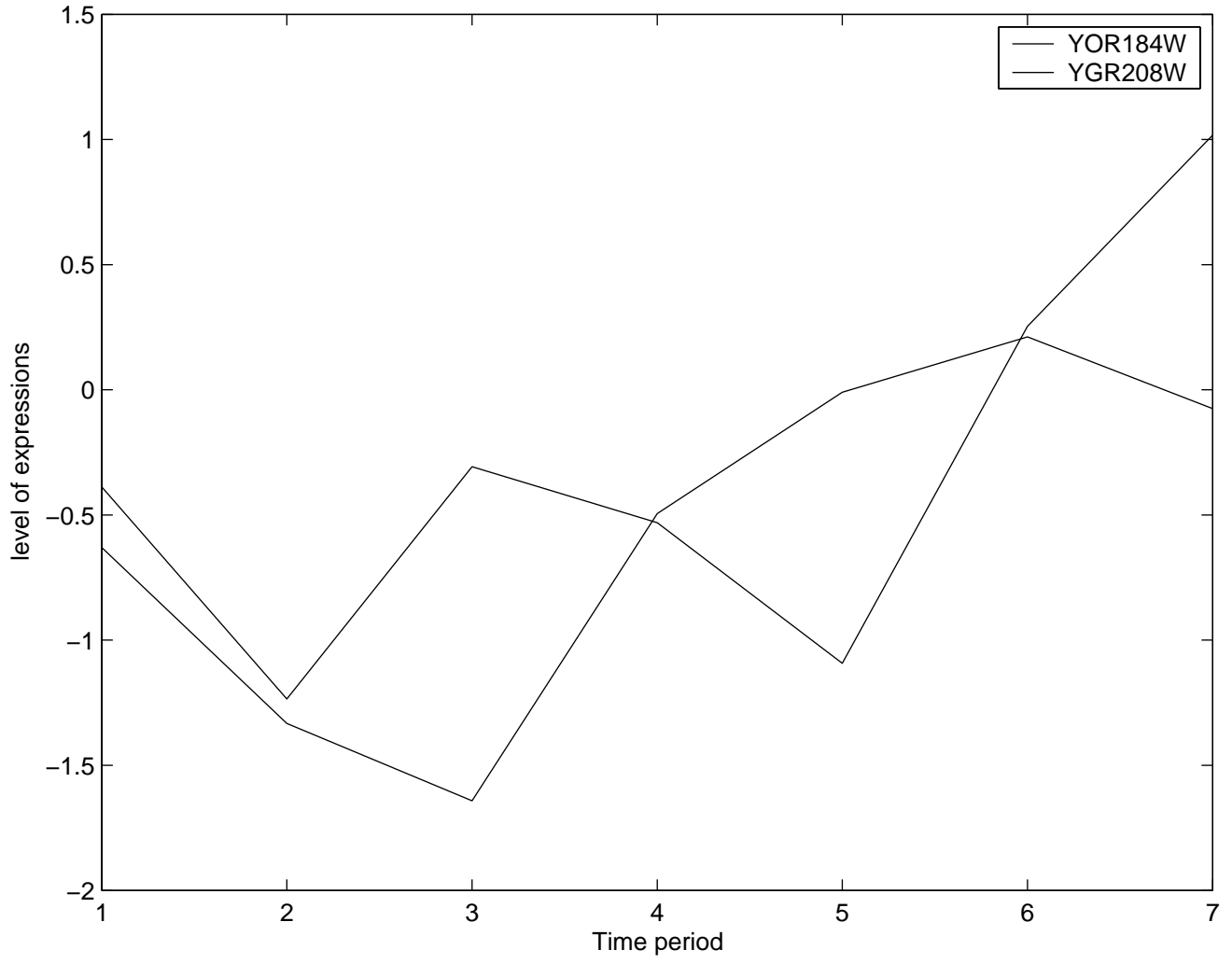




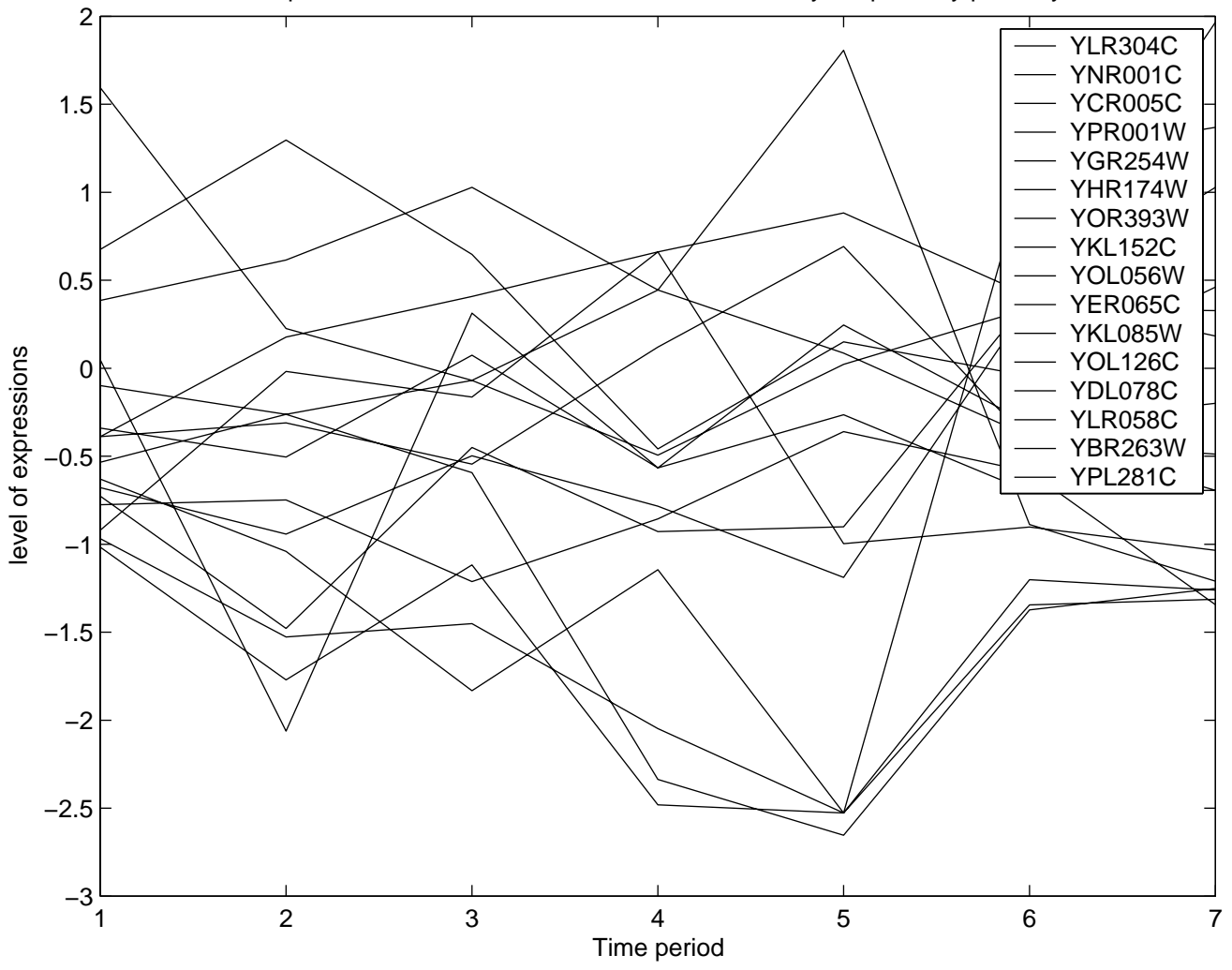
Expression of Genes involved insalvage pathways of pyrimidine ribonucleotides pathway



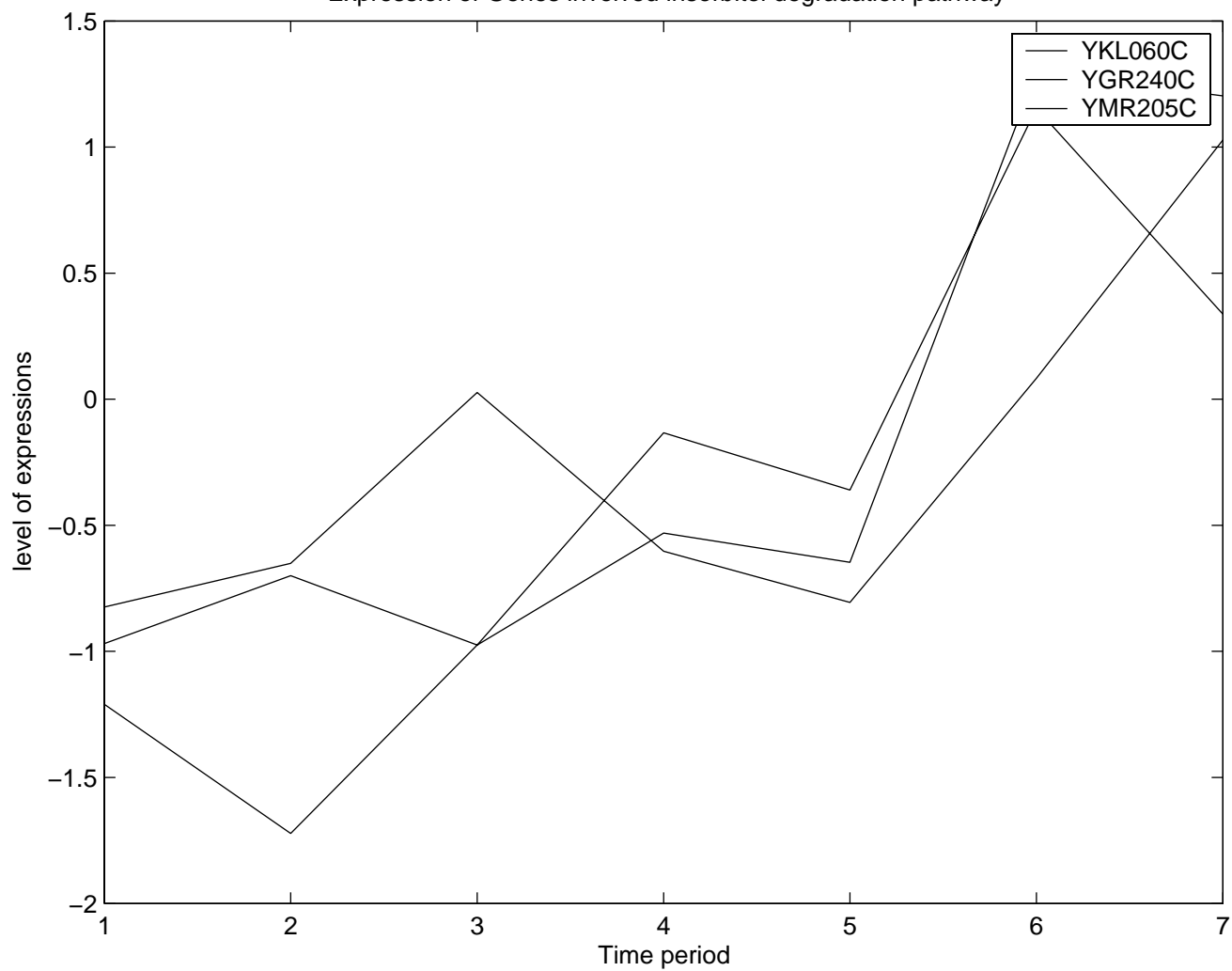
Expression of Genes involved inserine biosynthesis pathway



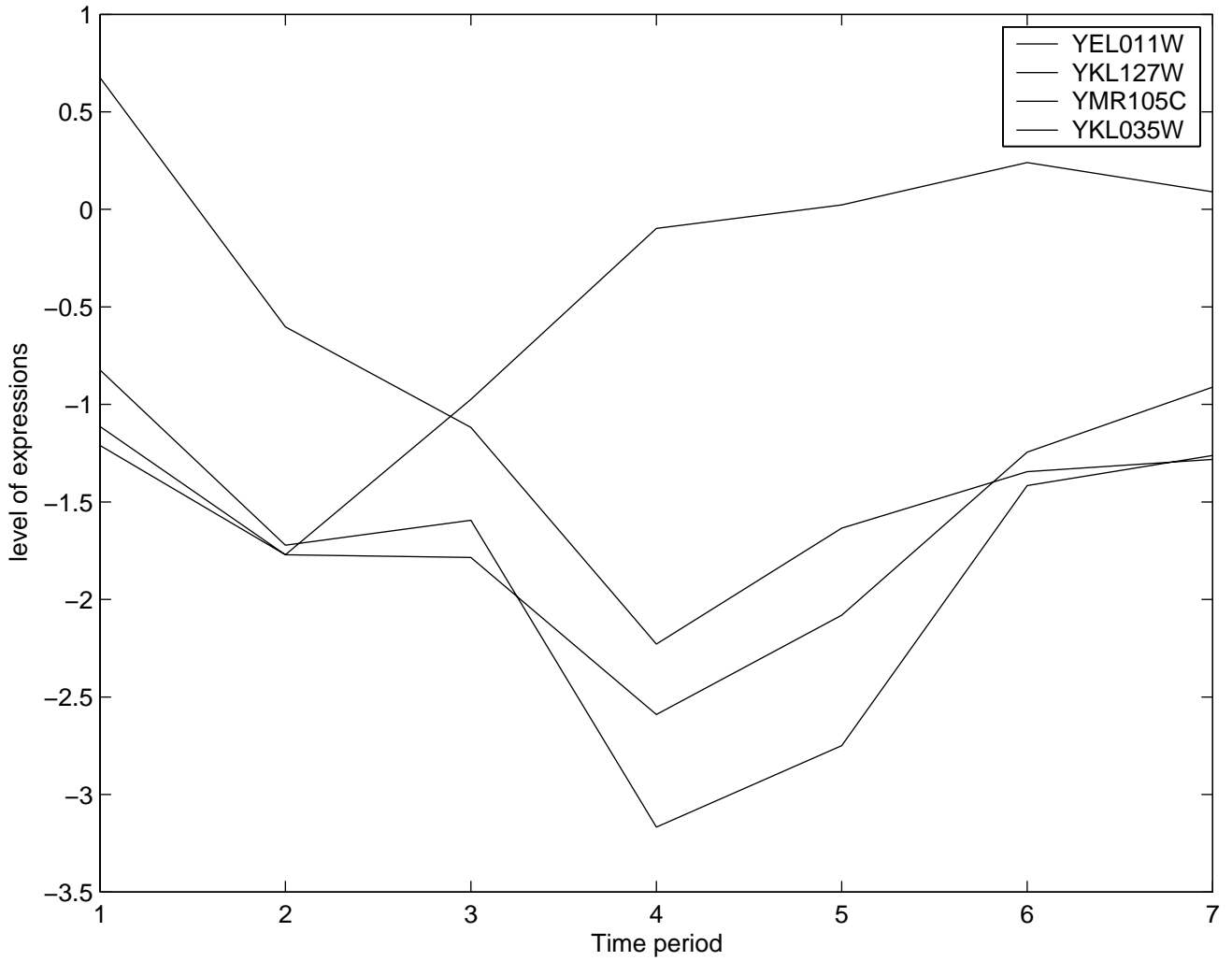
Expression of Genes involved inserine-isocitrate lyase pathway pathway



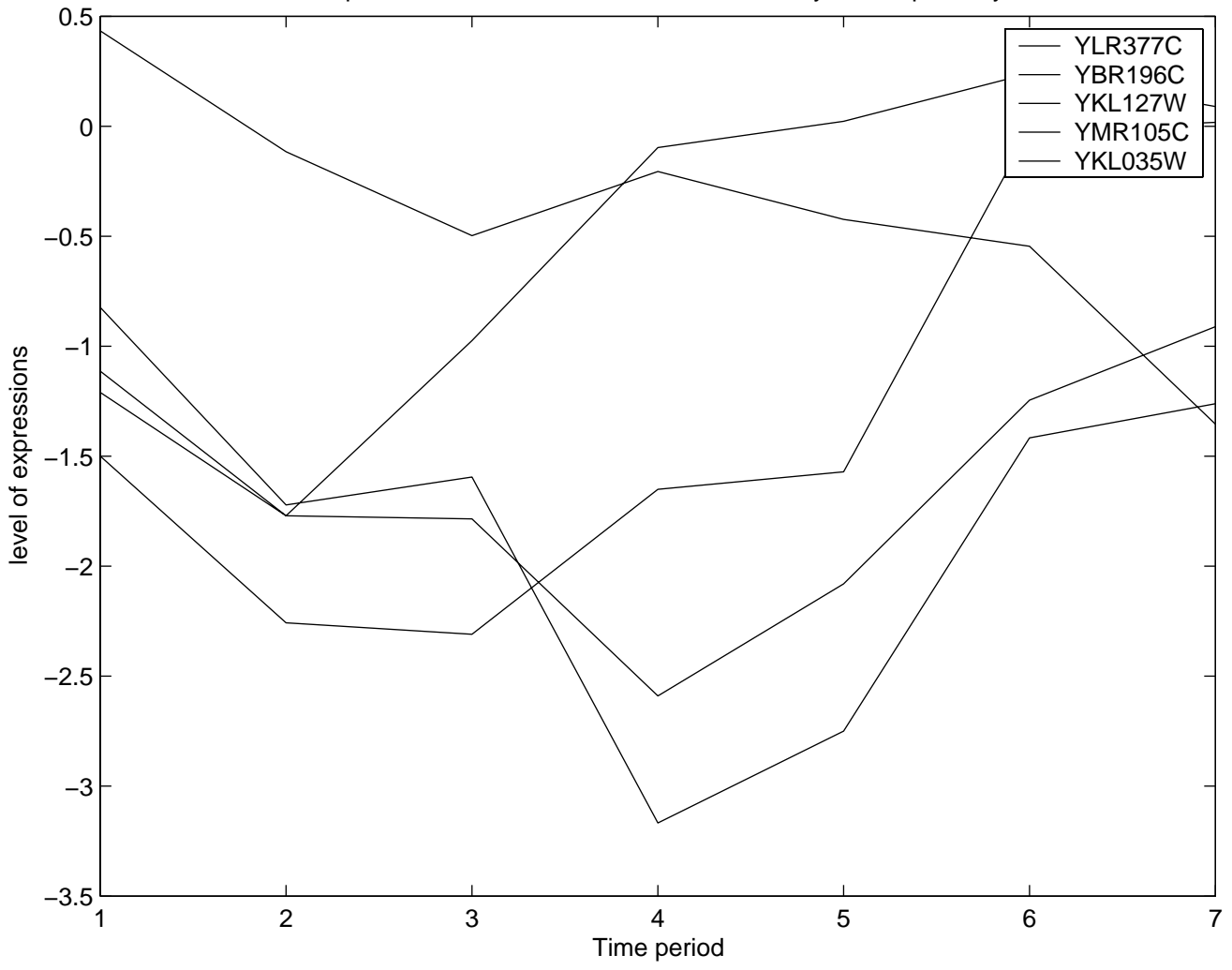
Expression of Genes involved insorbitol degradation pathway



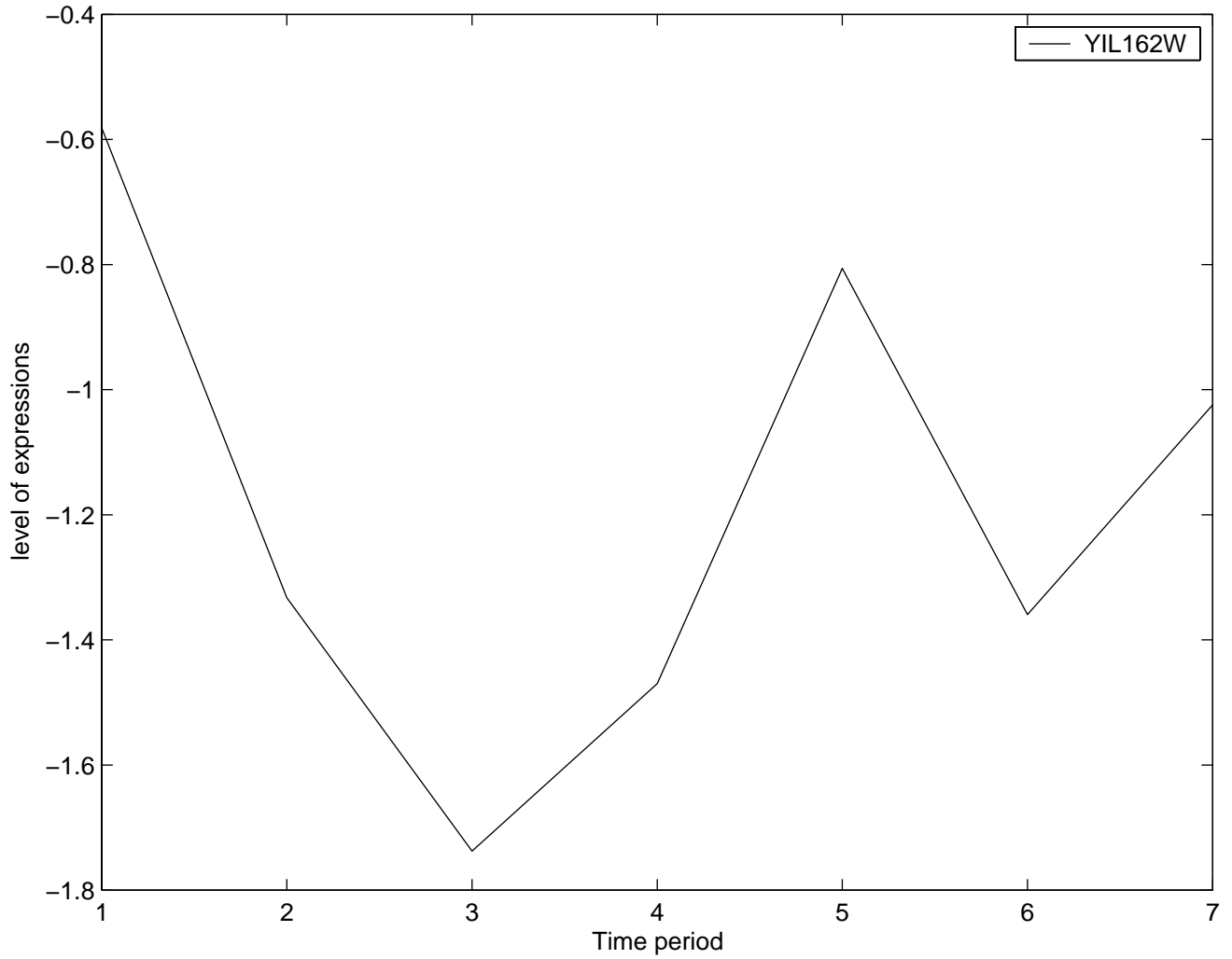
Expression of Genes involved instarch and cellulose biosynthesis pathway



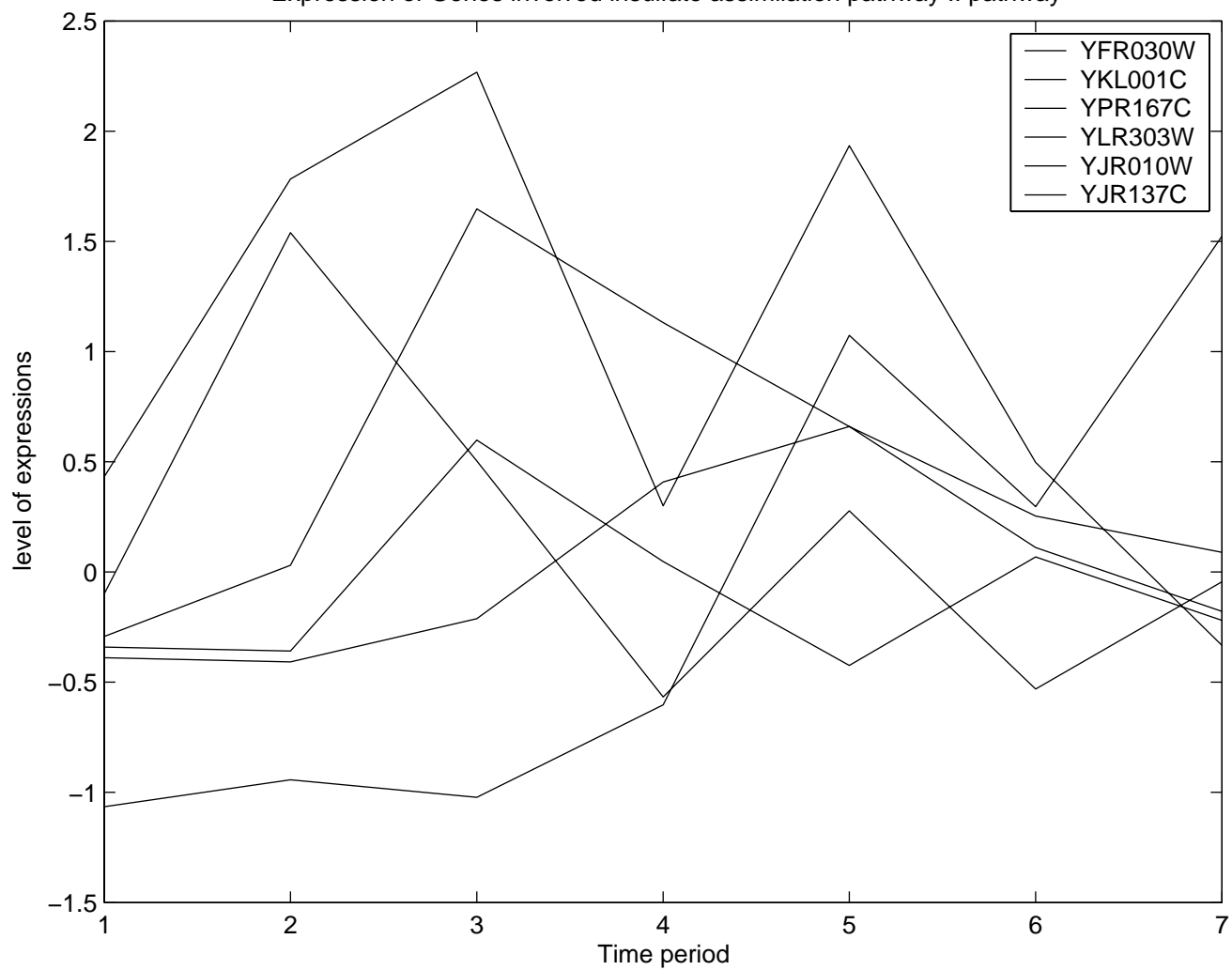
Expression of Genes involved insucrose biosynthesis pathway



Expression of Genes involved insucrose degradation pathway

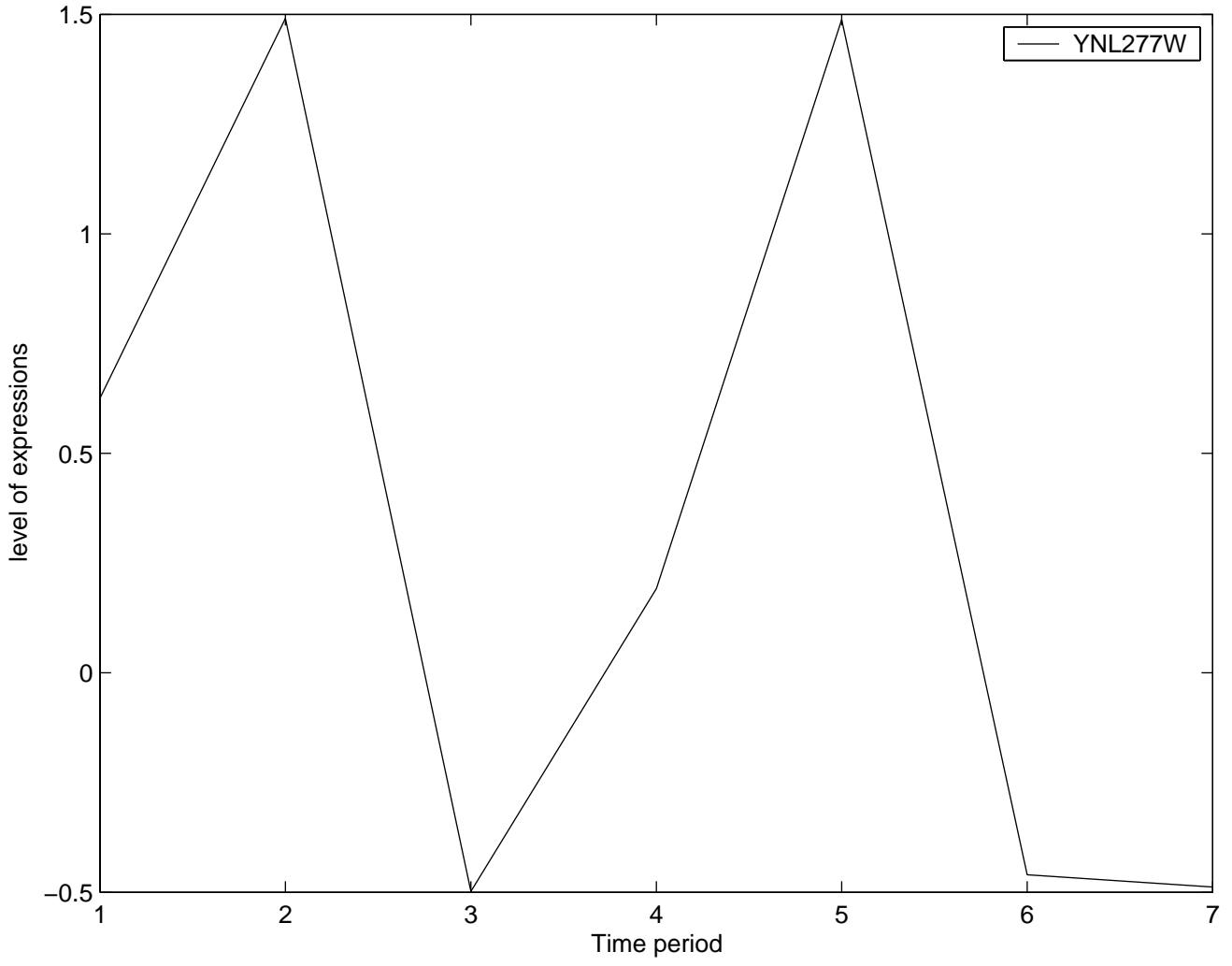


Expression of Genes involved insulfate assimilation pathway II pathway

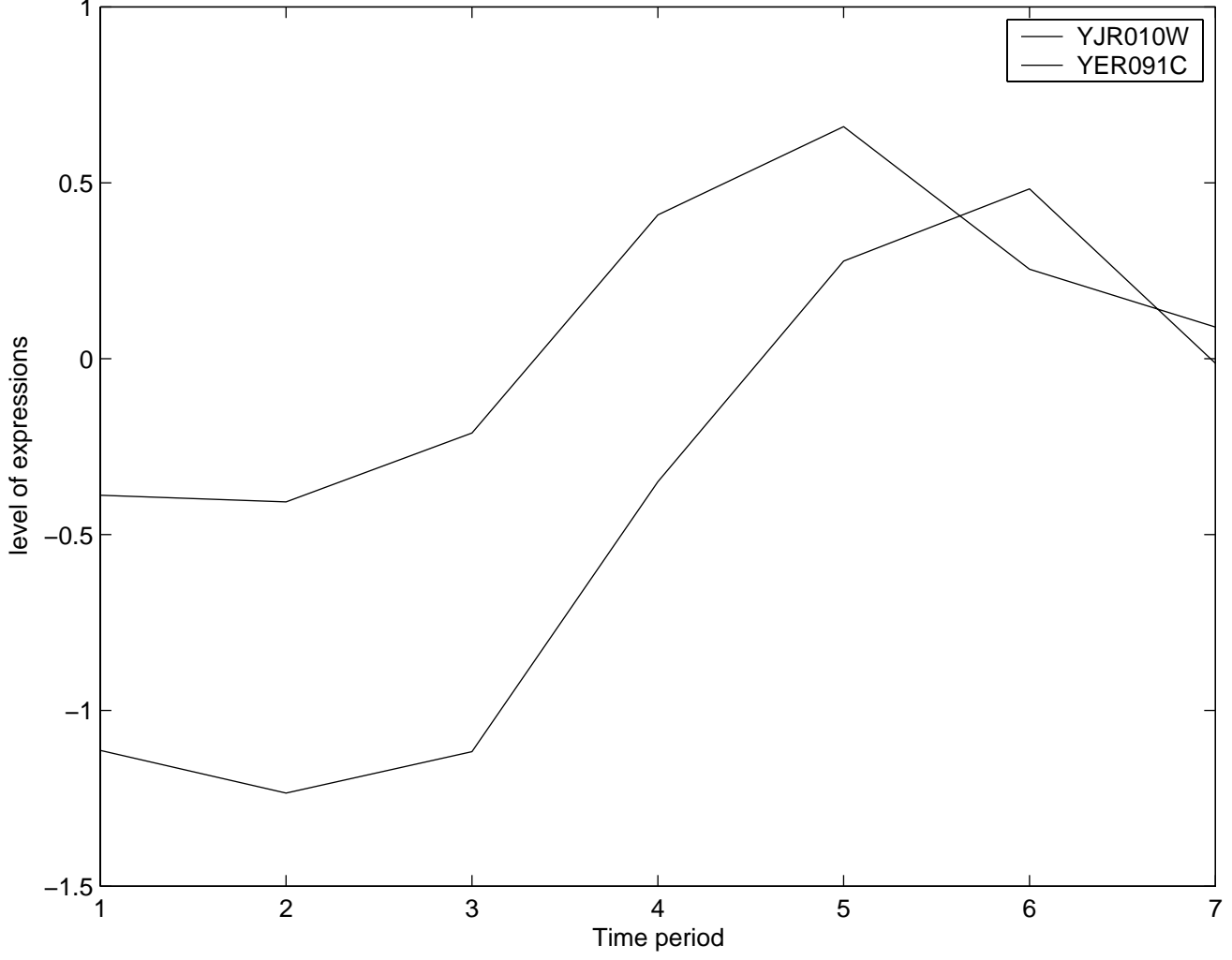




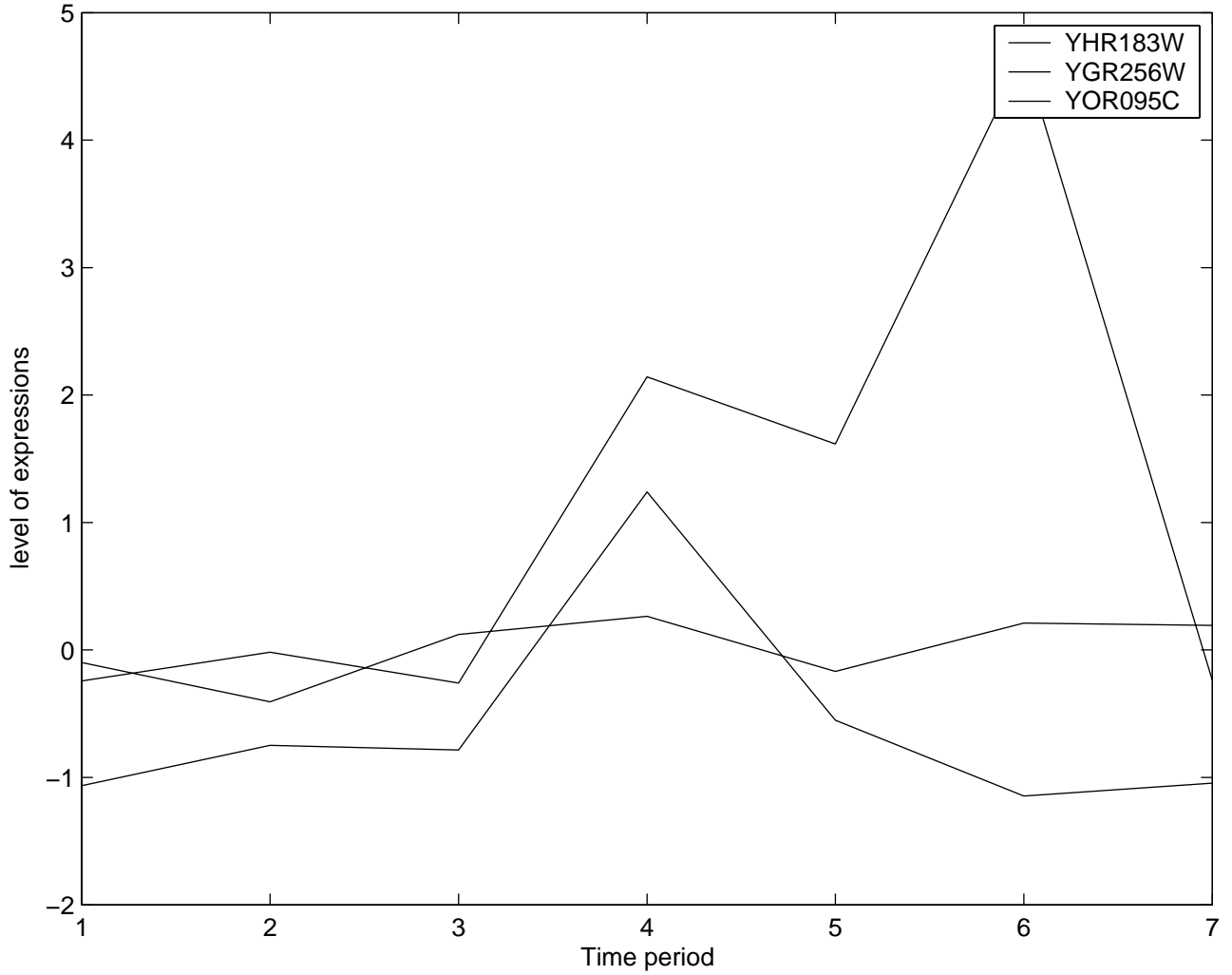
Expression of Genes involved insulfur amino acid biosynthesis pathway



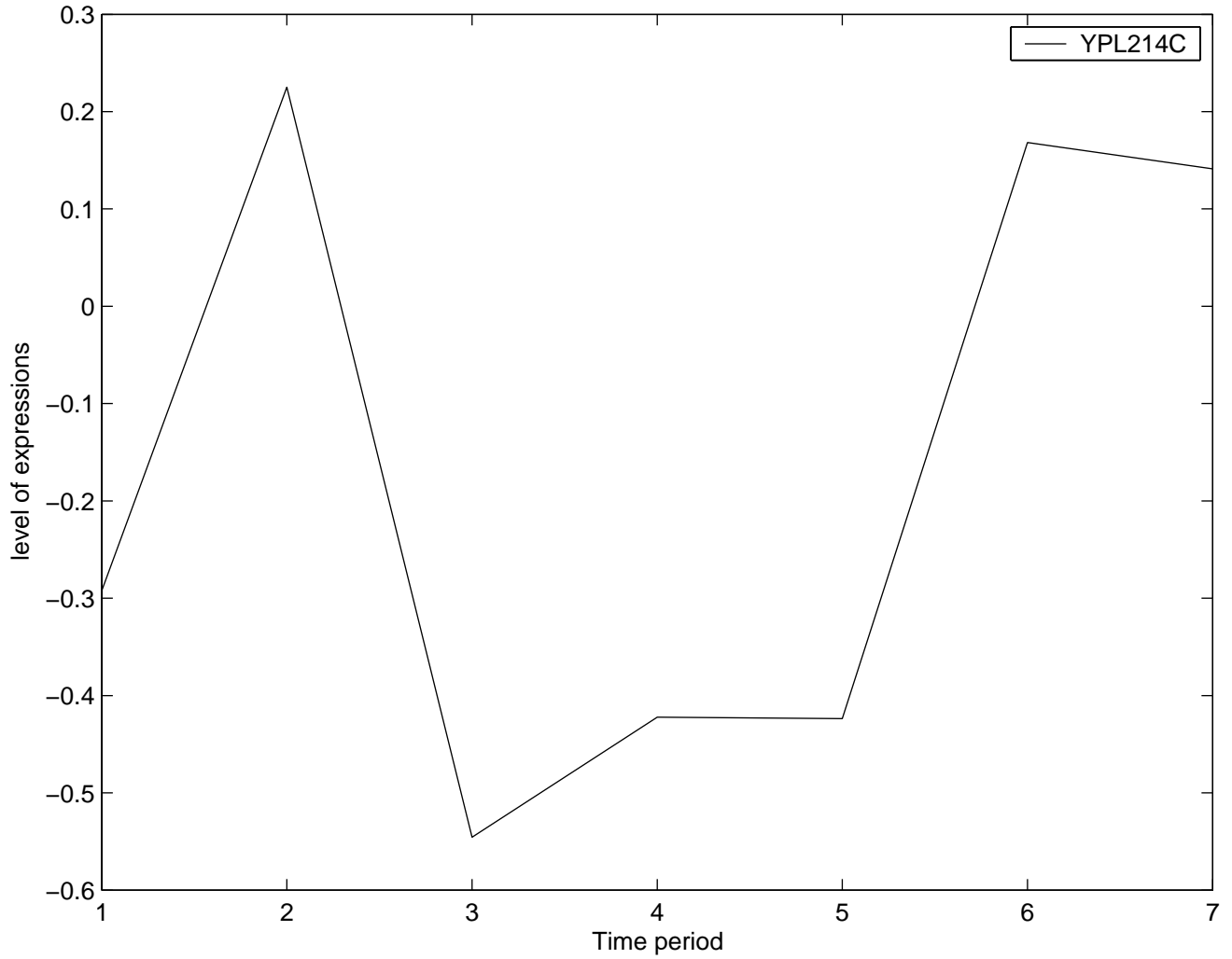
Expression of Genes involved insulfur degradation pathway



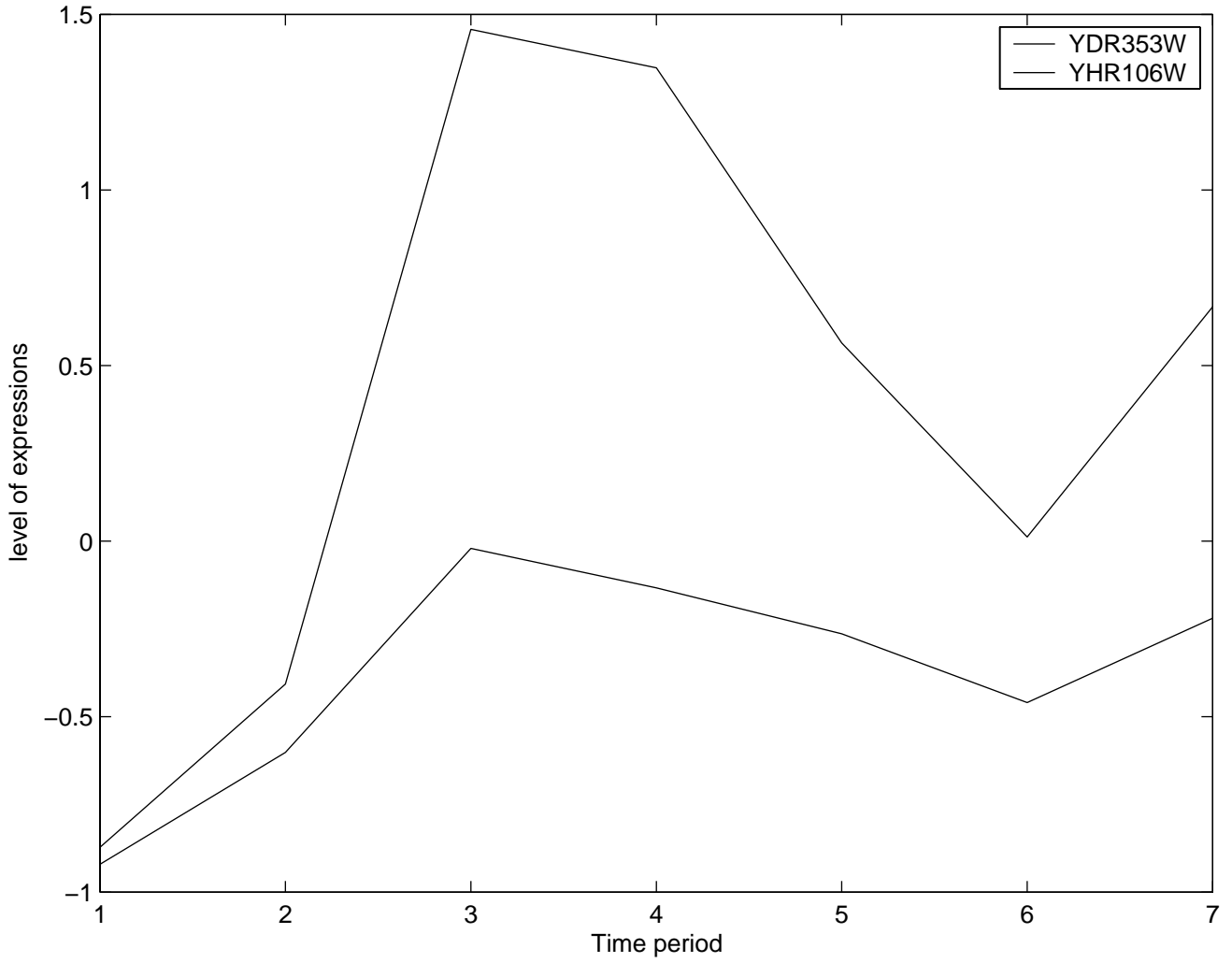
Expression of Genes involved insuperpathway for gluconate utilization pathway



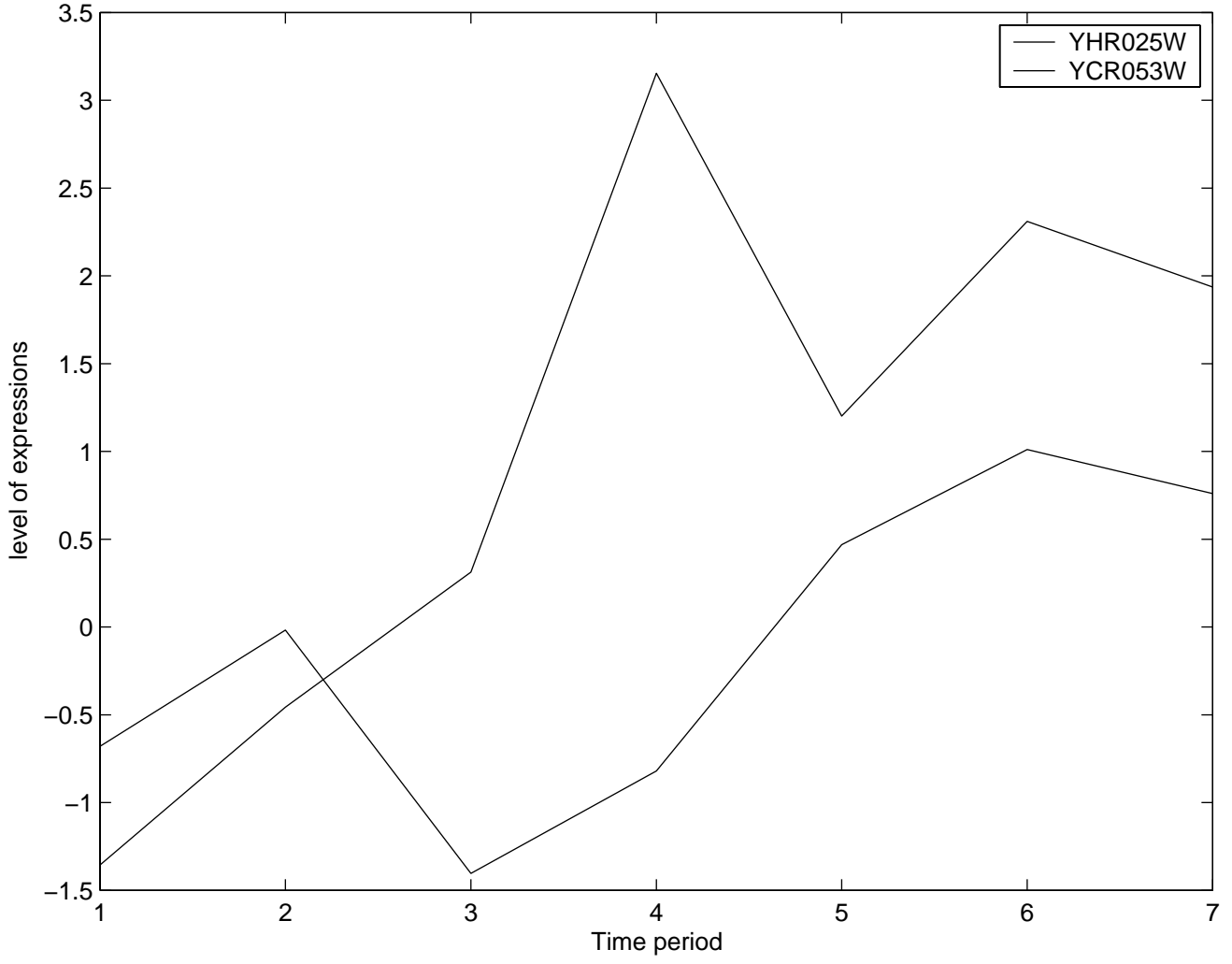
Expression of Genes involved in thiamine biosynthesis pathway



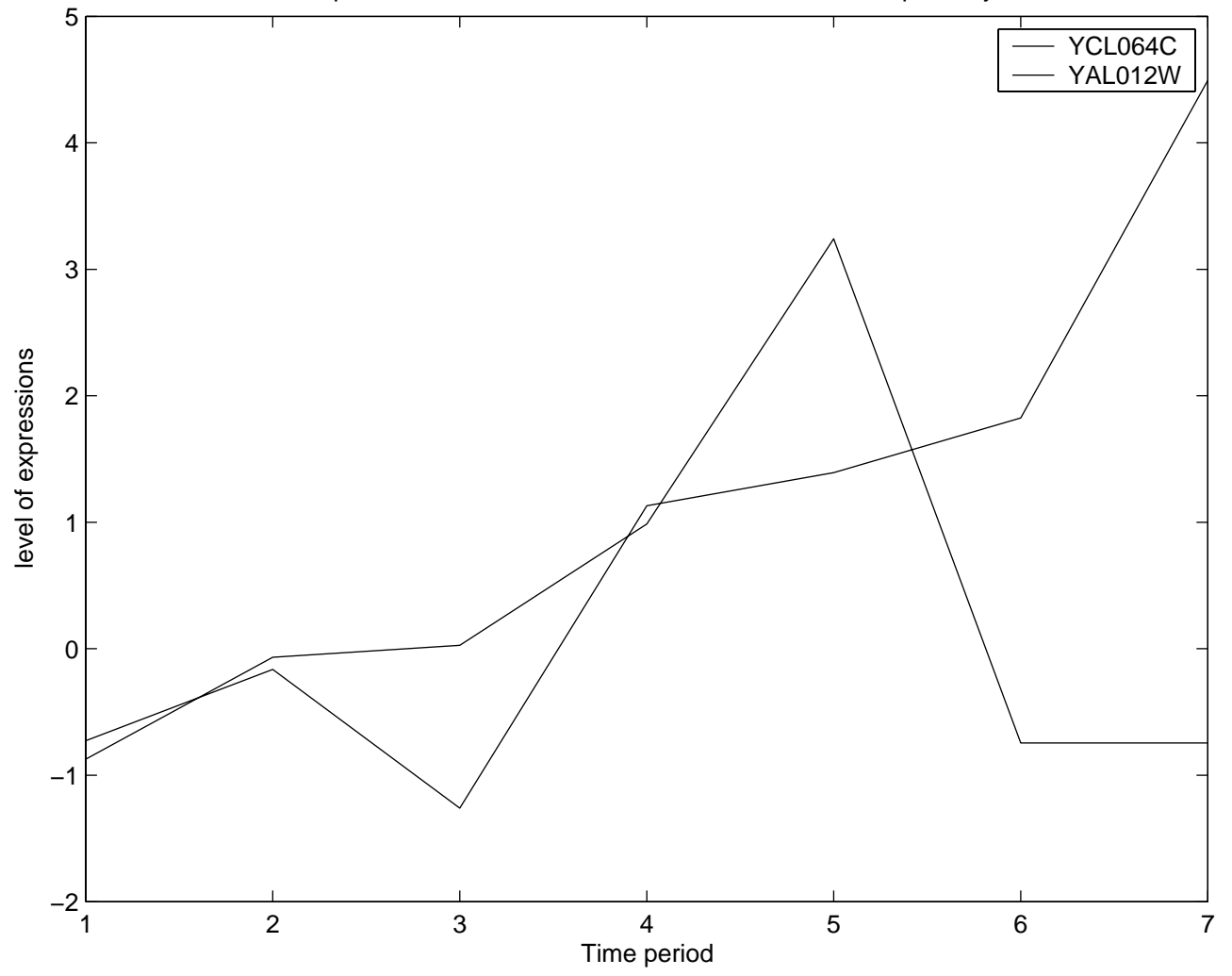
Expression of Genes involved in thioredoxin pathway



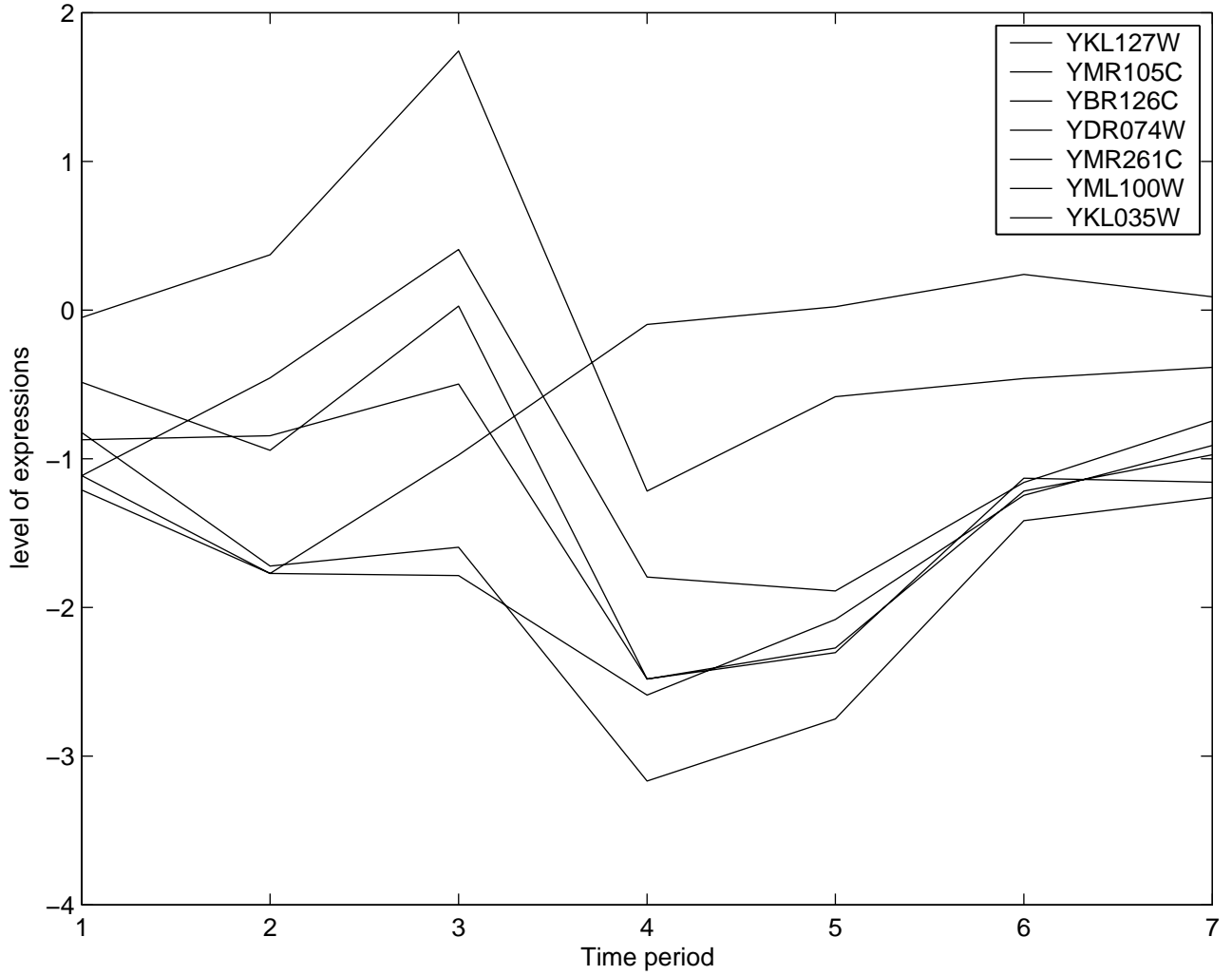
Expression of Genes involved in threonine biosynthesis from homoserine pathway



Expression of Genes involved in threonine catabolism pathway

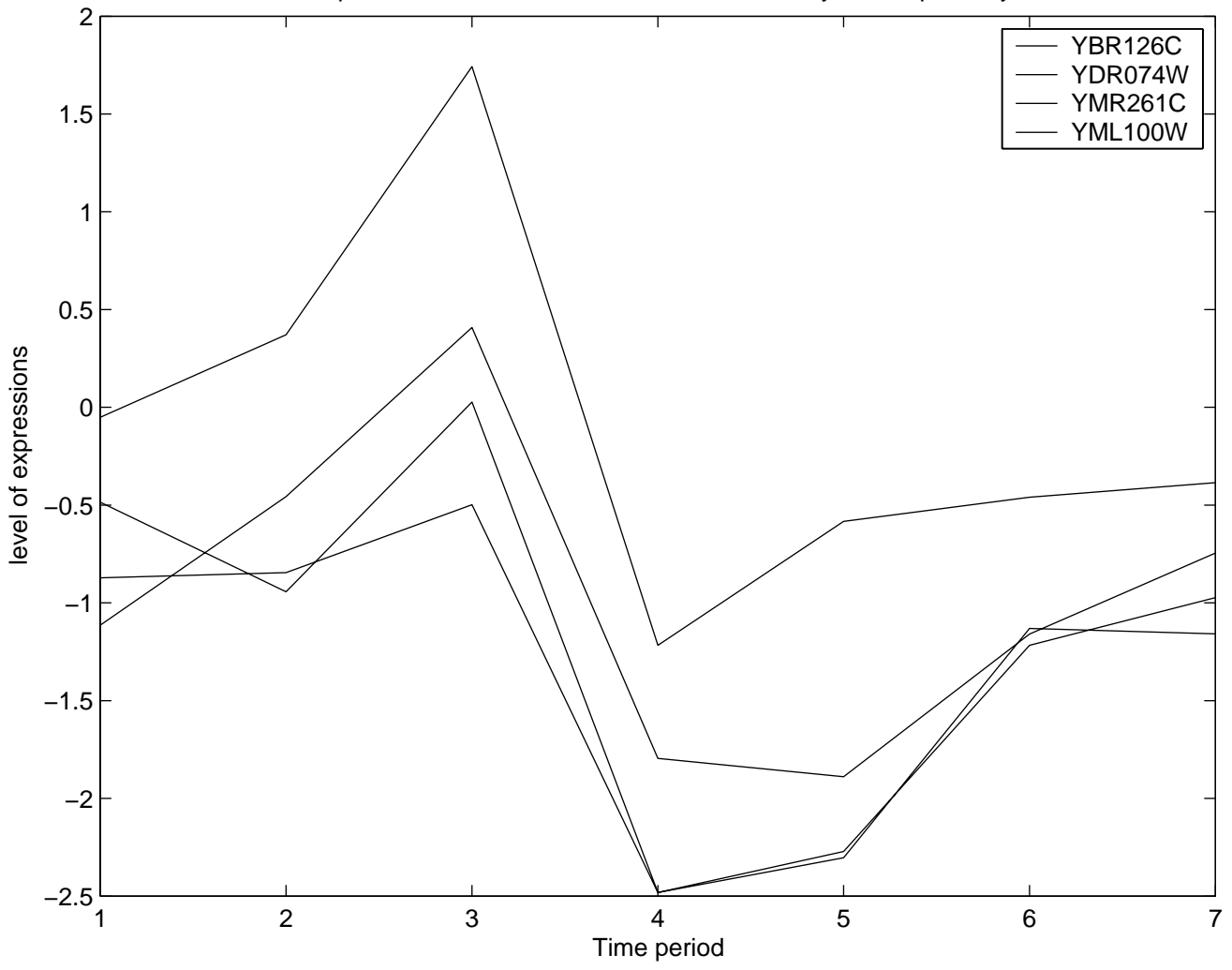


Expression of Genes involved intrehalose anabolism pathway

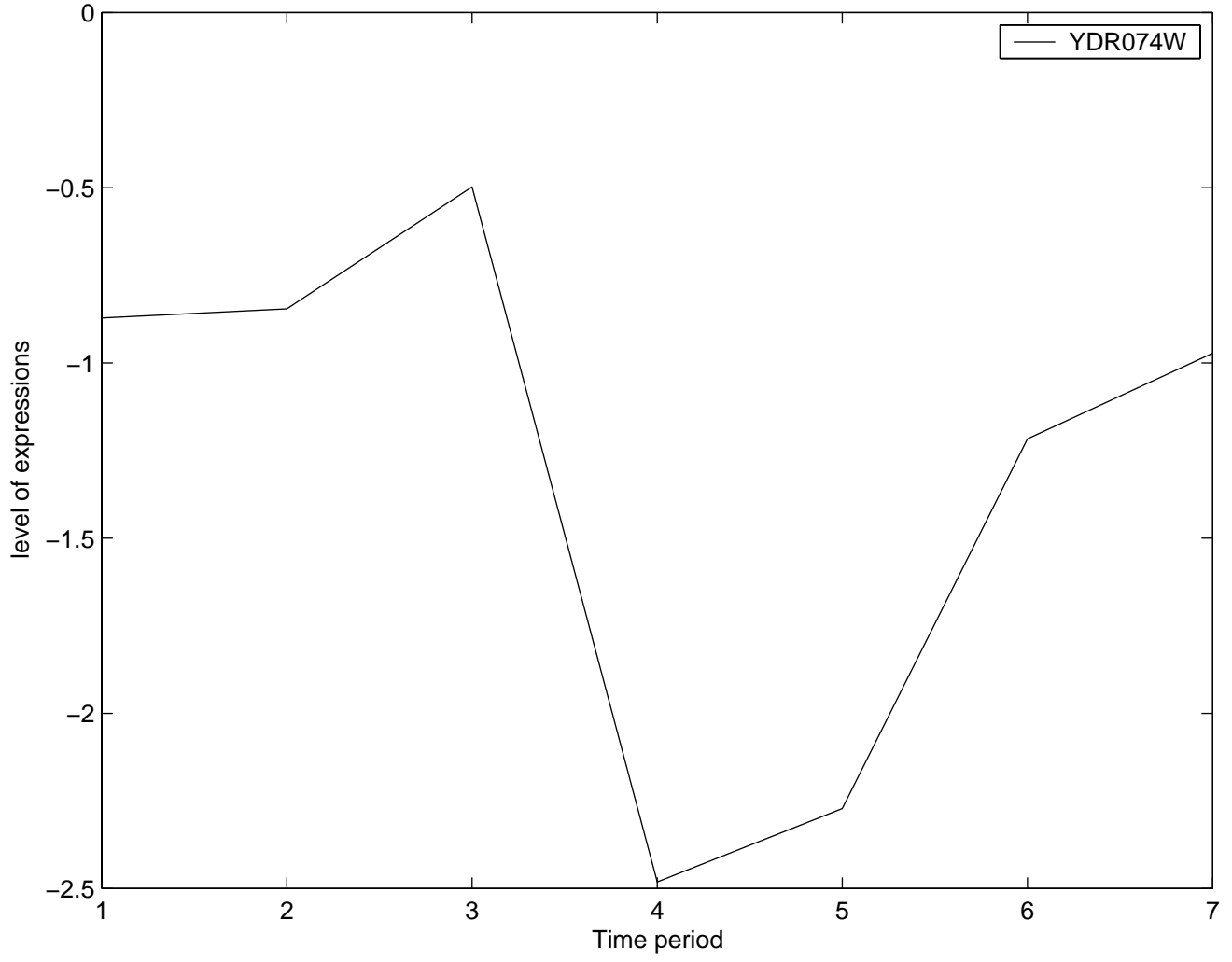




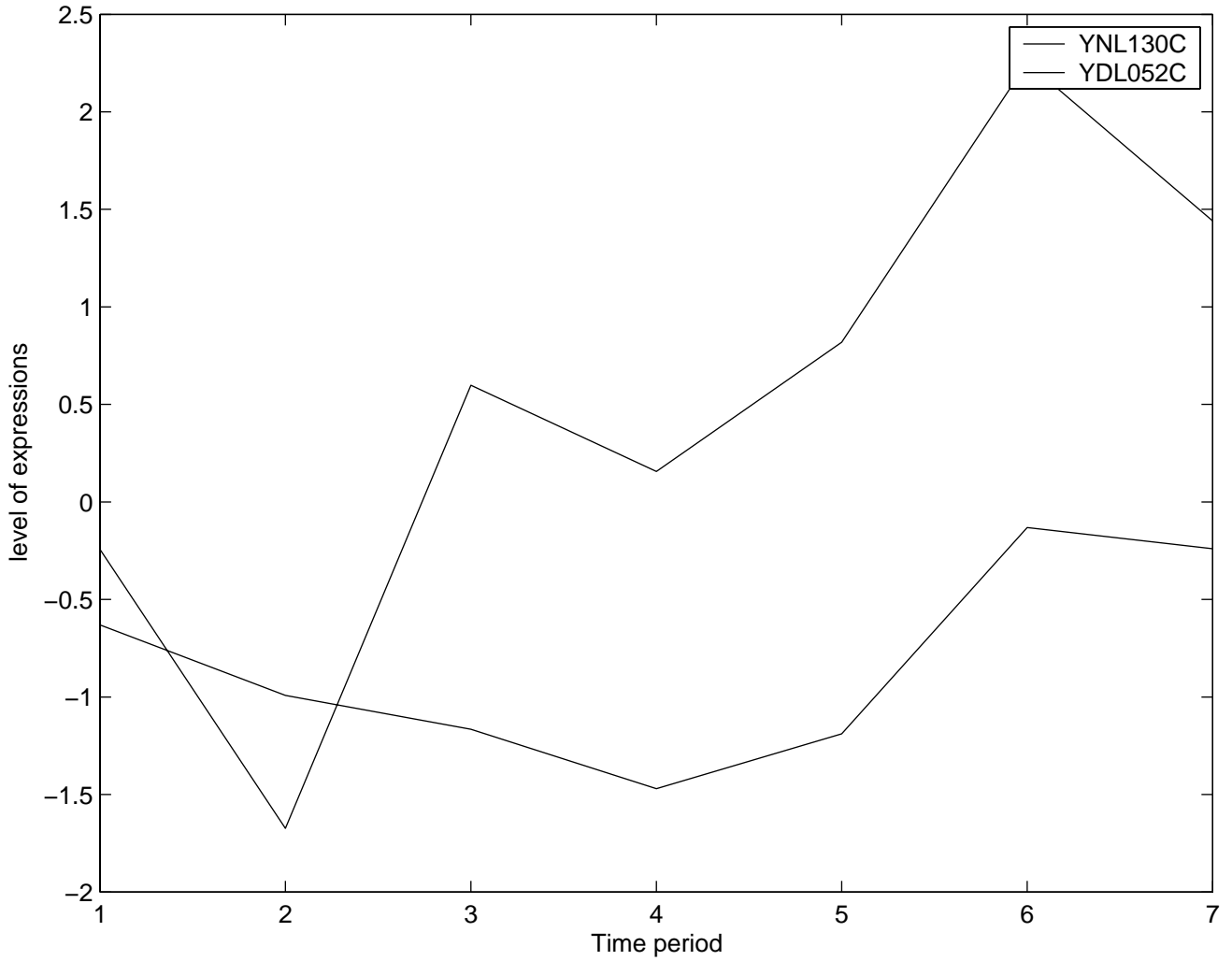
Expression of Genes involved in trehalose biosynthesis pathway



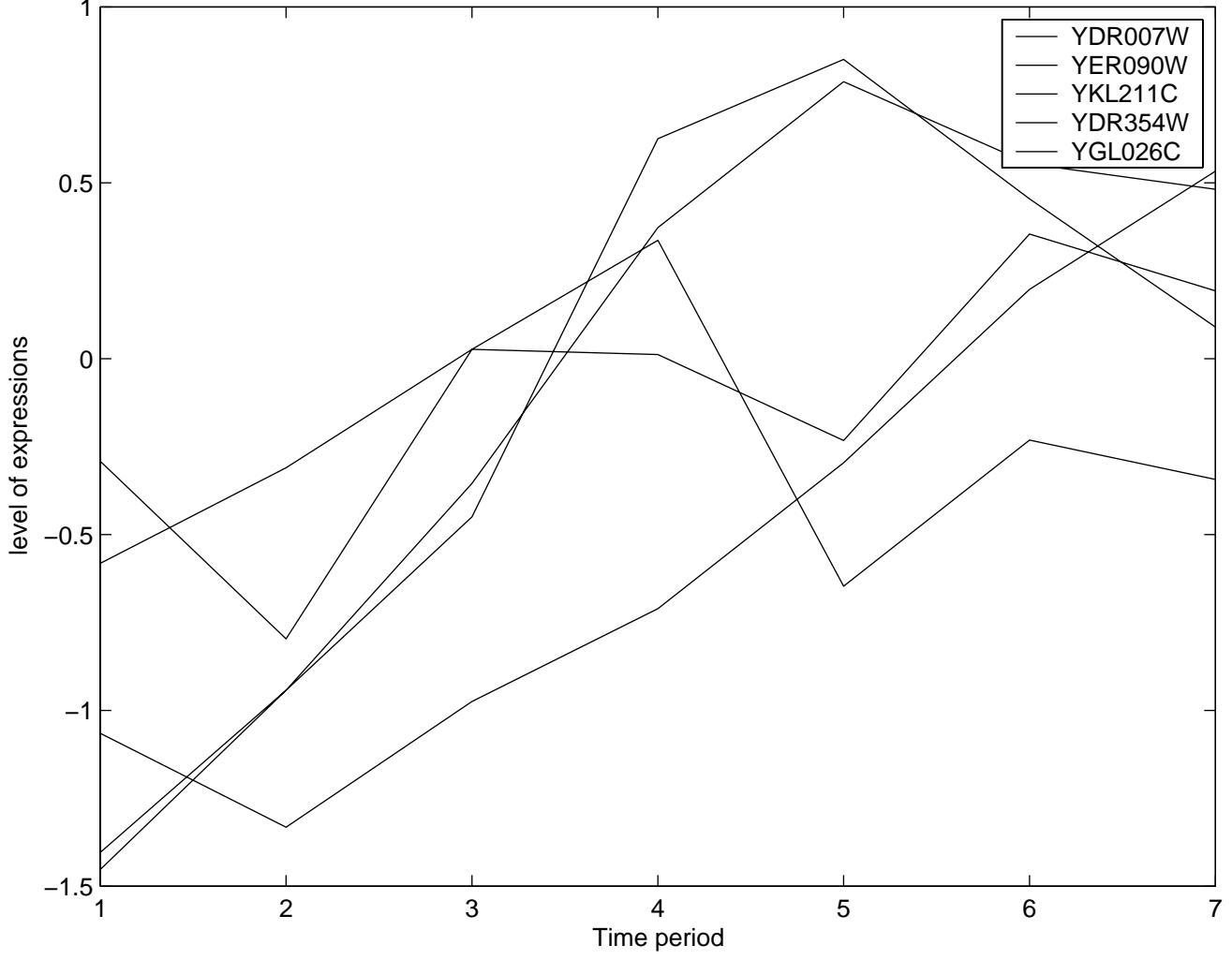
Expression of Genes involved intrehalose biosynthesis 2 pathway



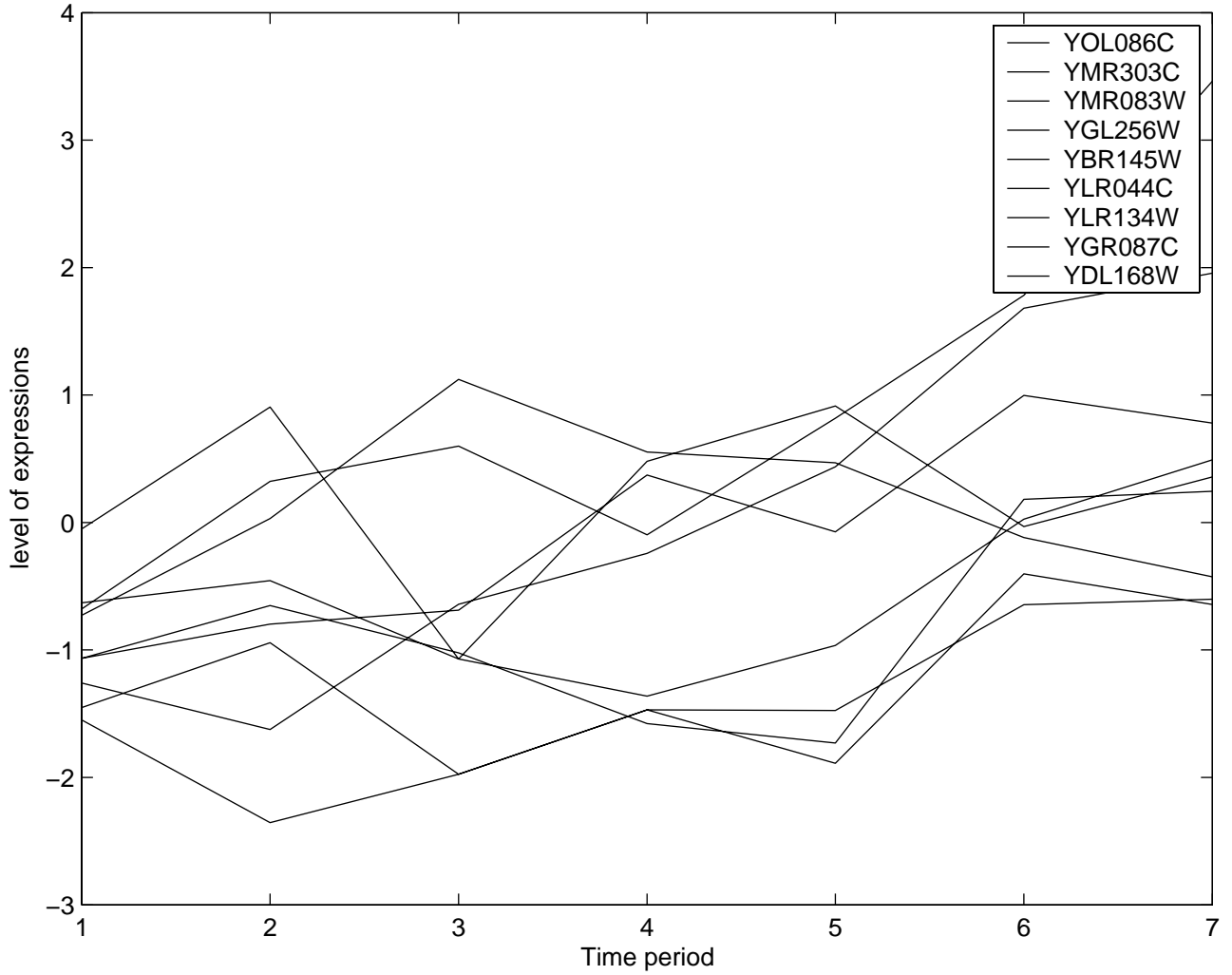
Expression of Genes involved in triglyceride biosynthesis pathway



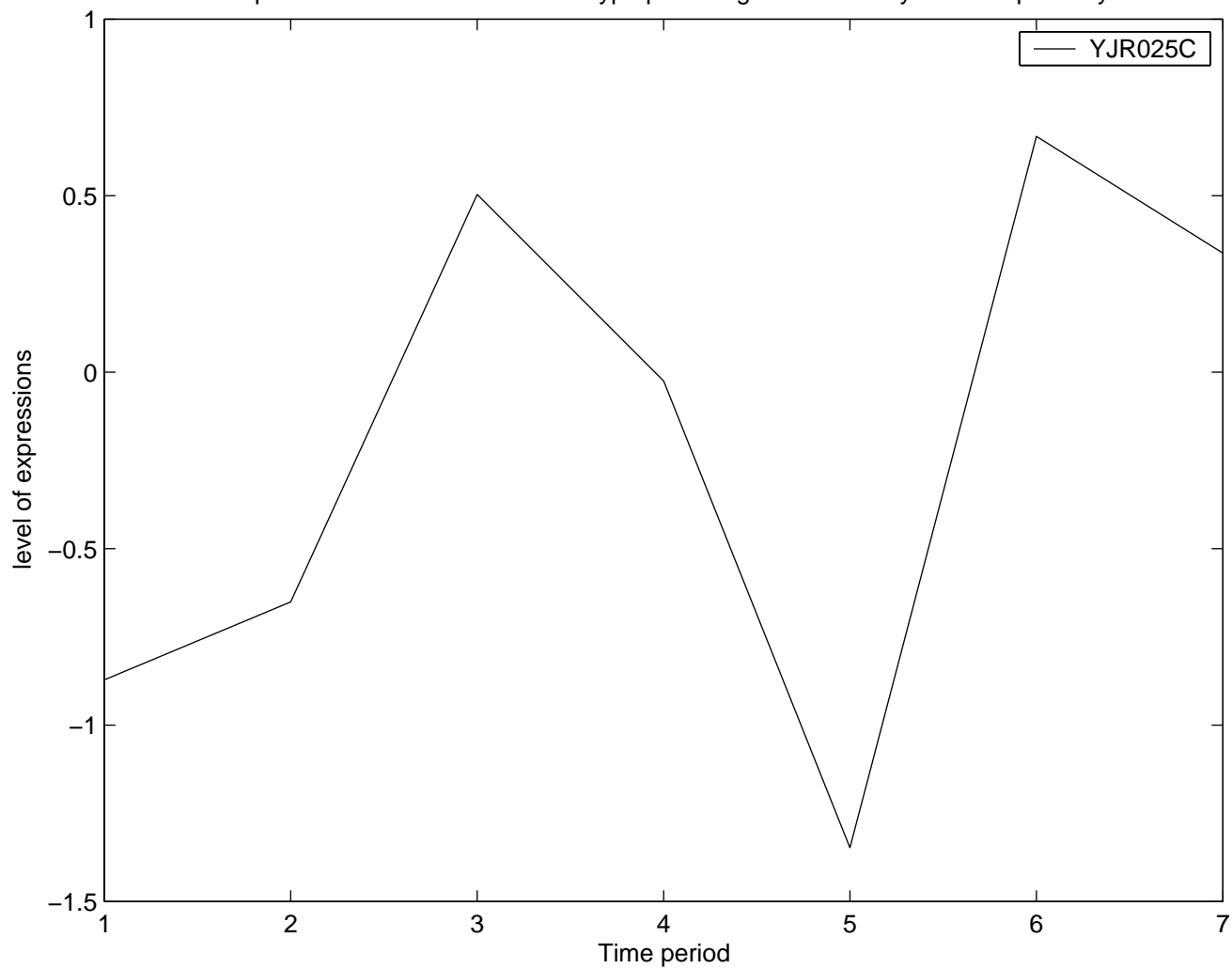
Expression of Genes involved in tryptophan biosynthesis pathway



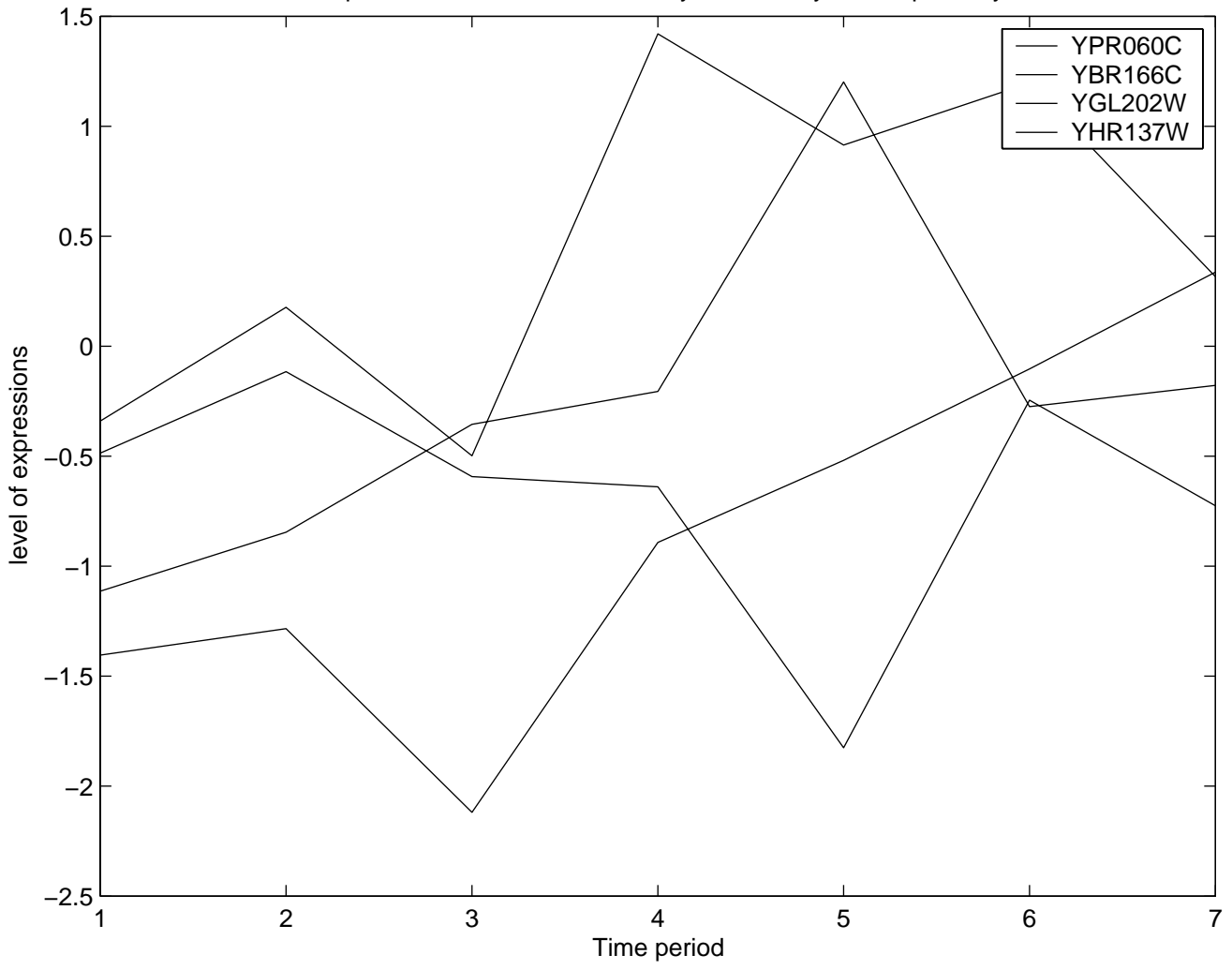
Expression of Genes involved in tryptophan degradation pathway



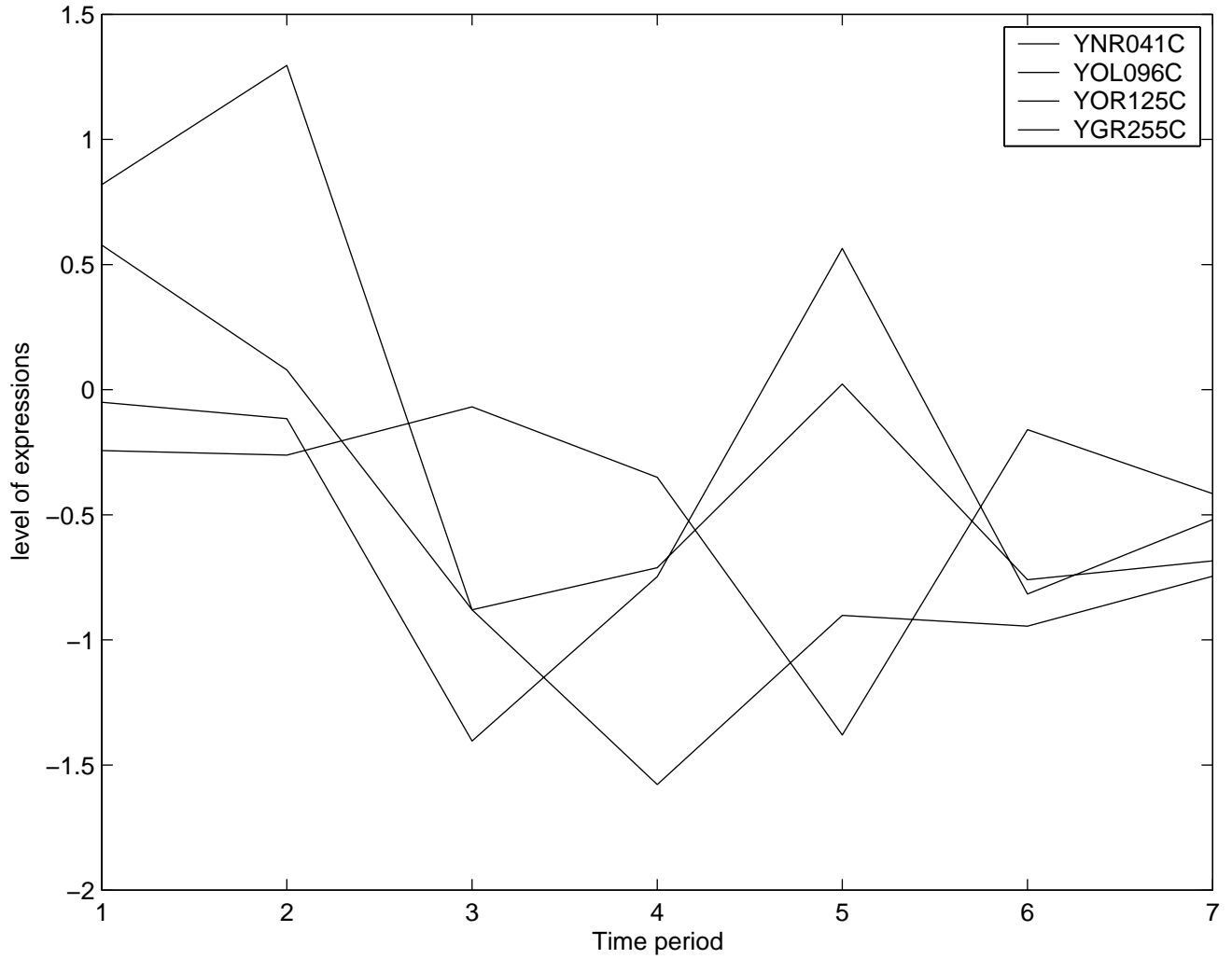
Expression of Genes involved in tryptophan degradation via kynurenine pathway



Expression of Genes involved intyrosine biosynthesis pathway

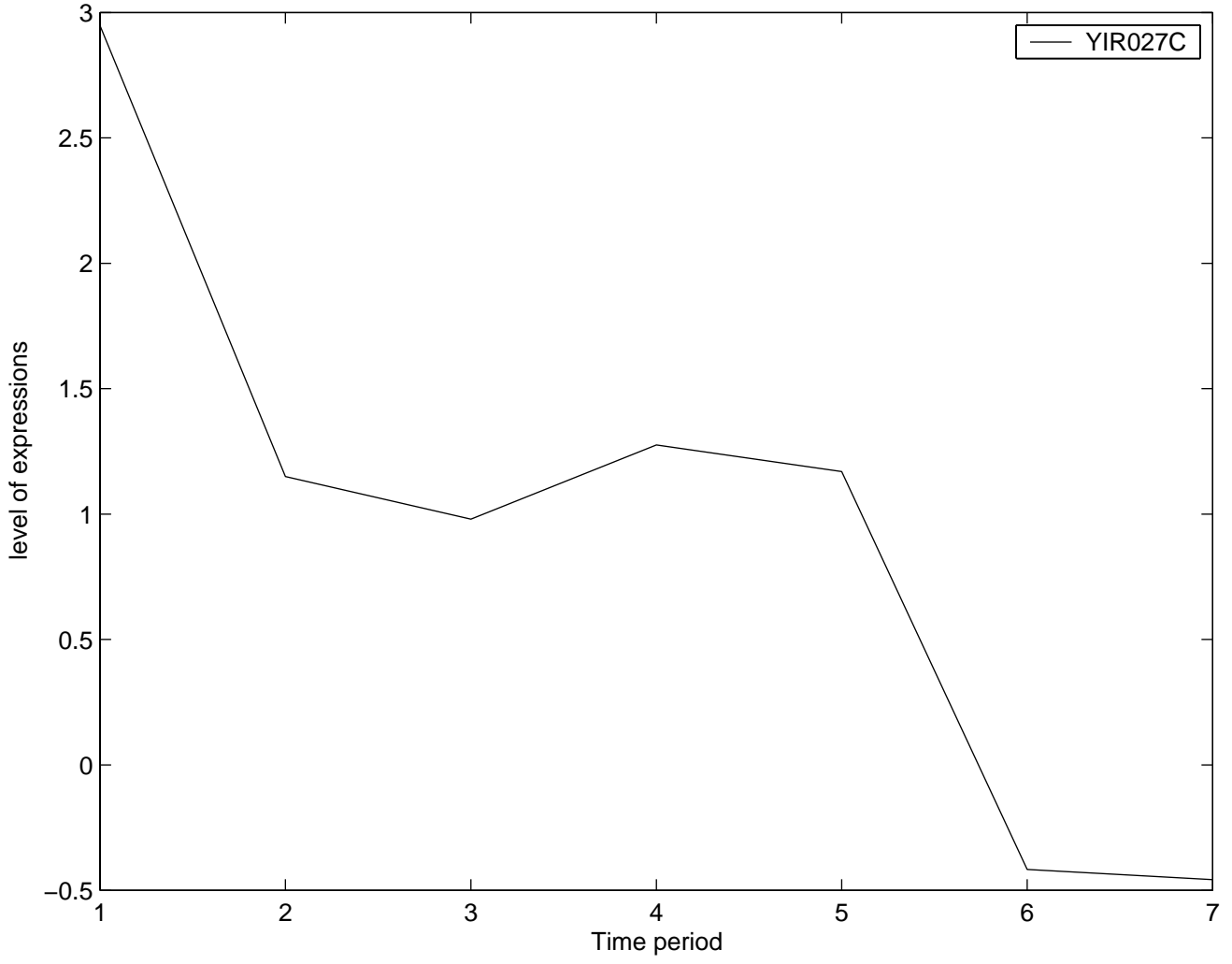


Expression of Genes involved in ubiquinone Q prenylation pathway

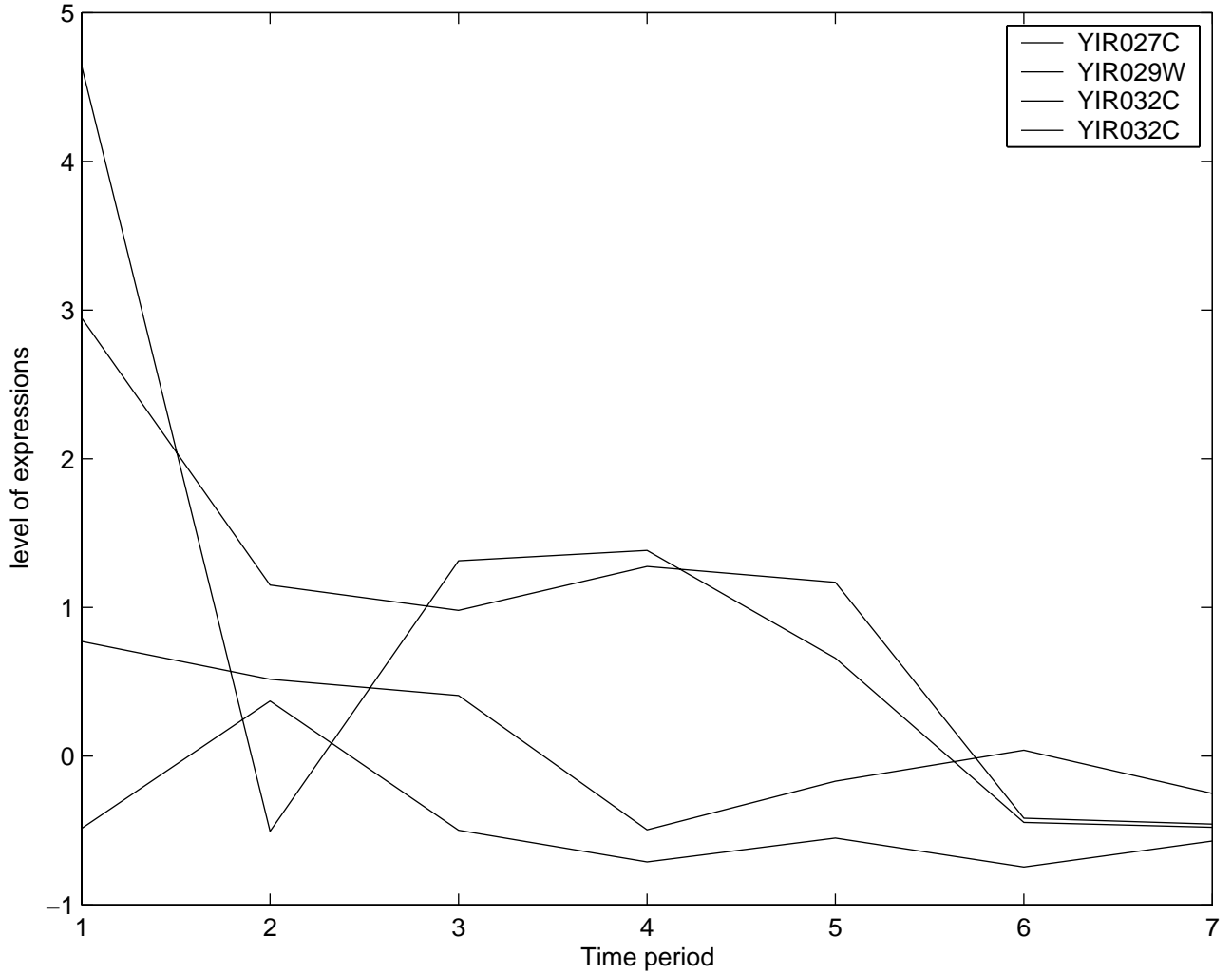




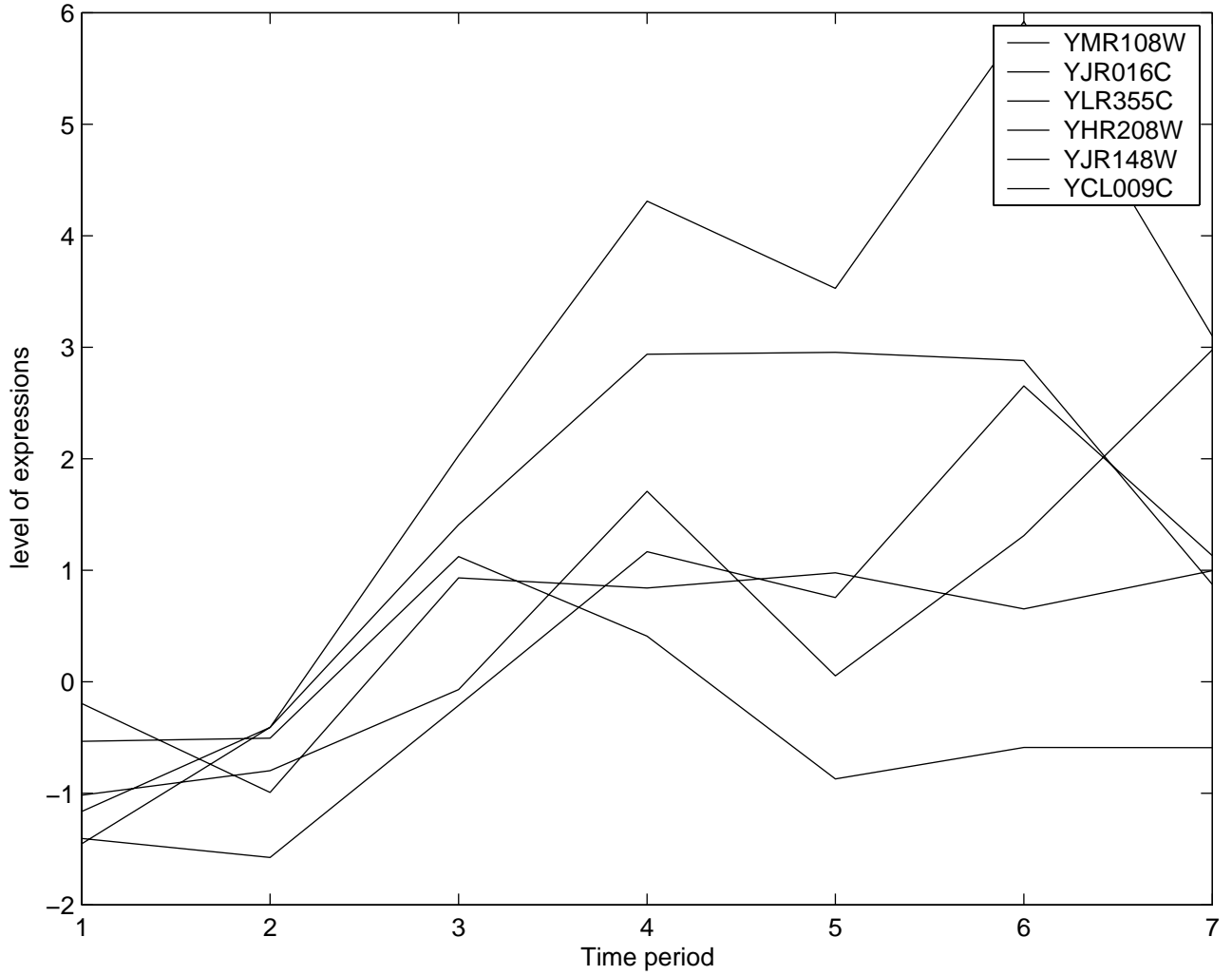
Expression of Genes involved in ureide biosynthesis pathway



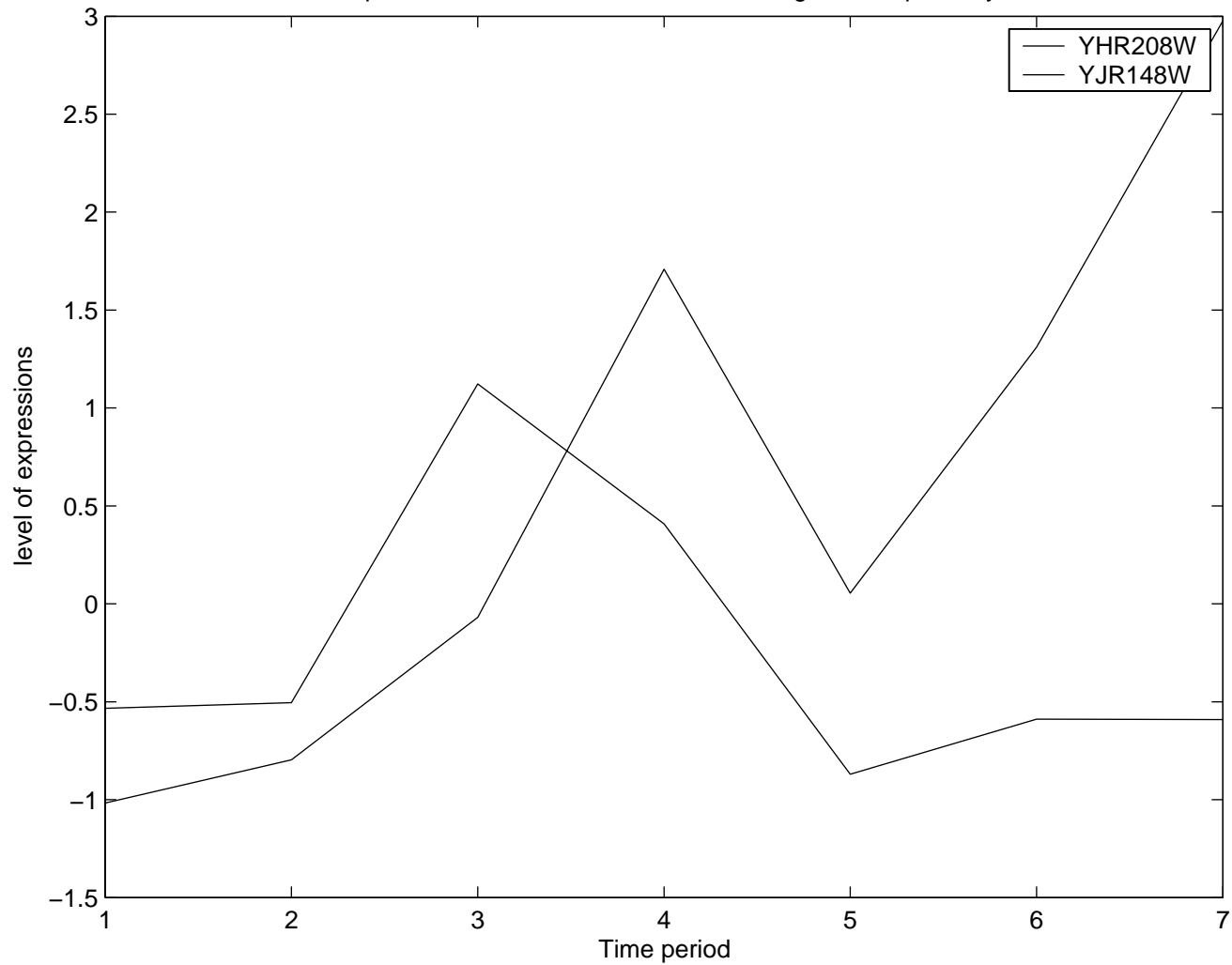
Expression of Genes involved in ureide degradation pathway



Expression of Genes involved in valine biosynthesis pathway



Expression of Genes involved in valine degradation pathway



Expression of Genes involved in xylulose-monophosphate cycle pathway

