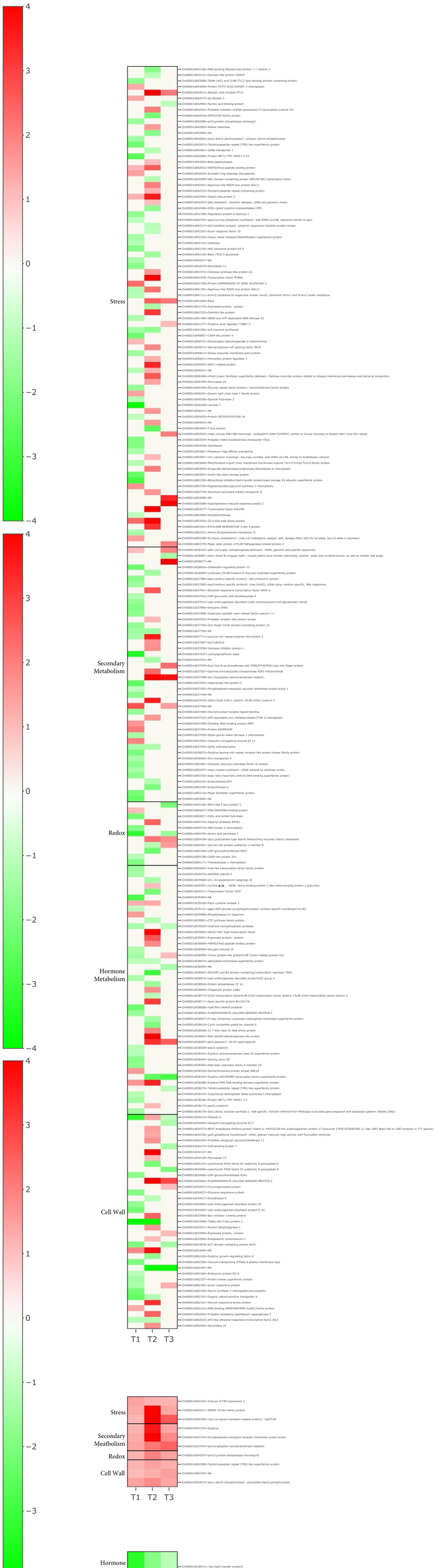
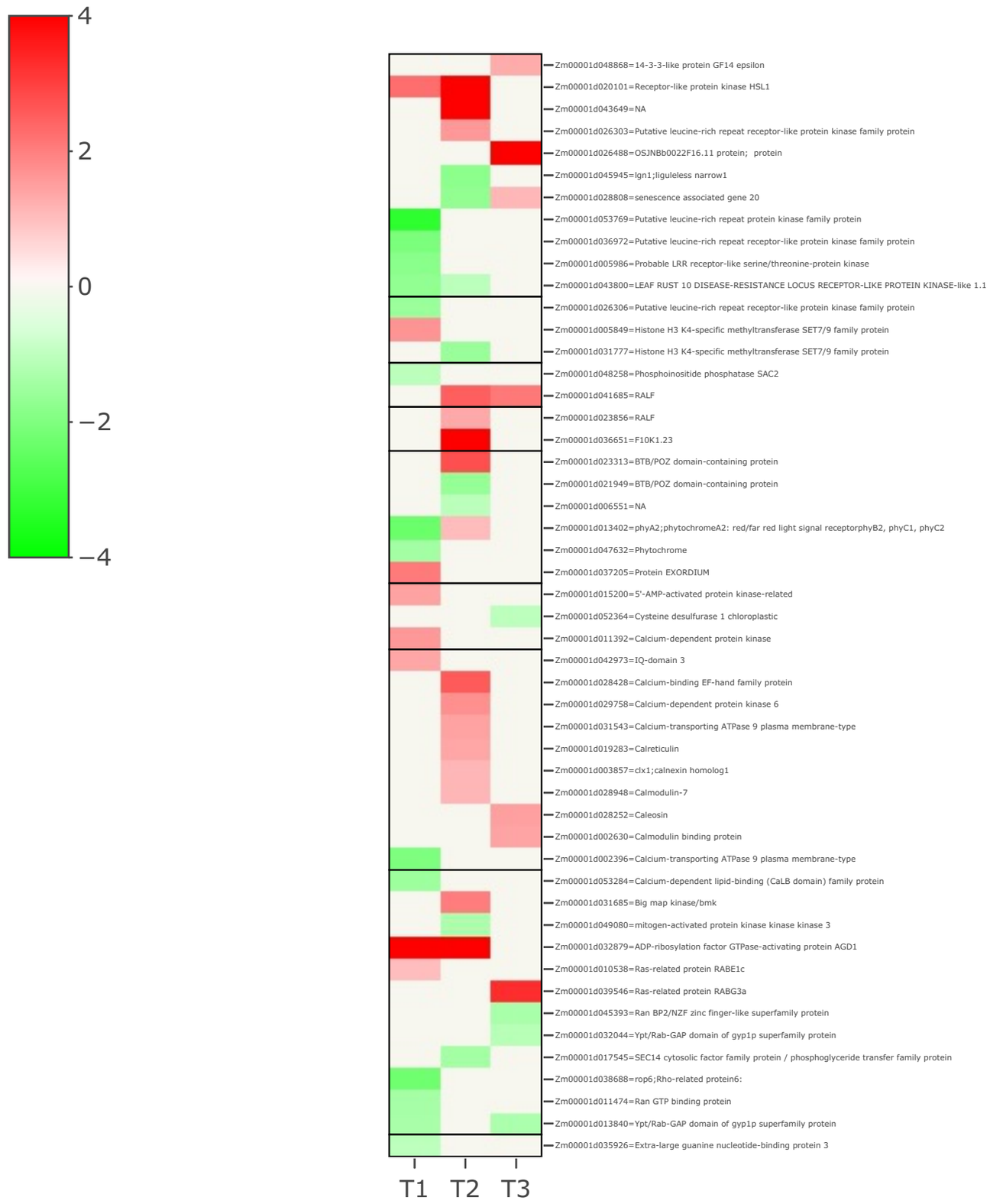
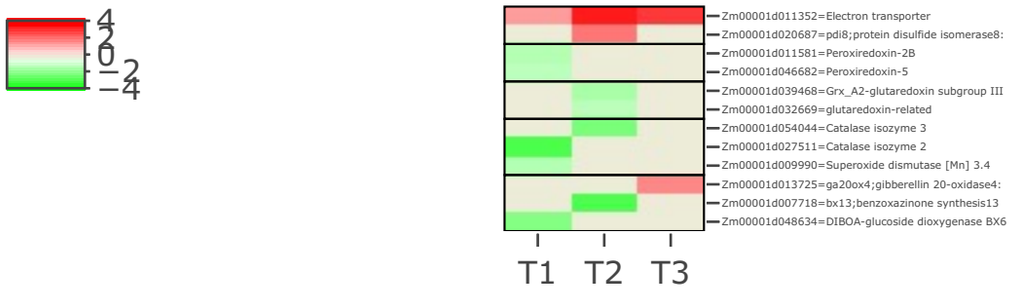
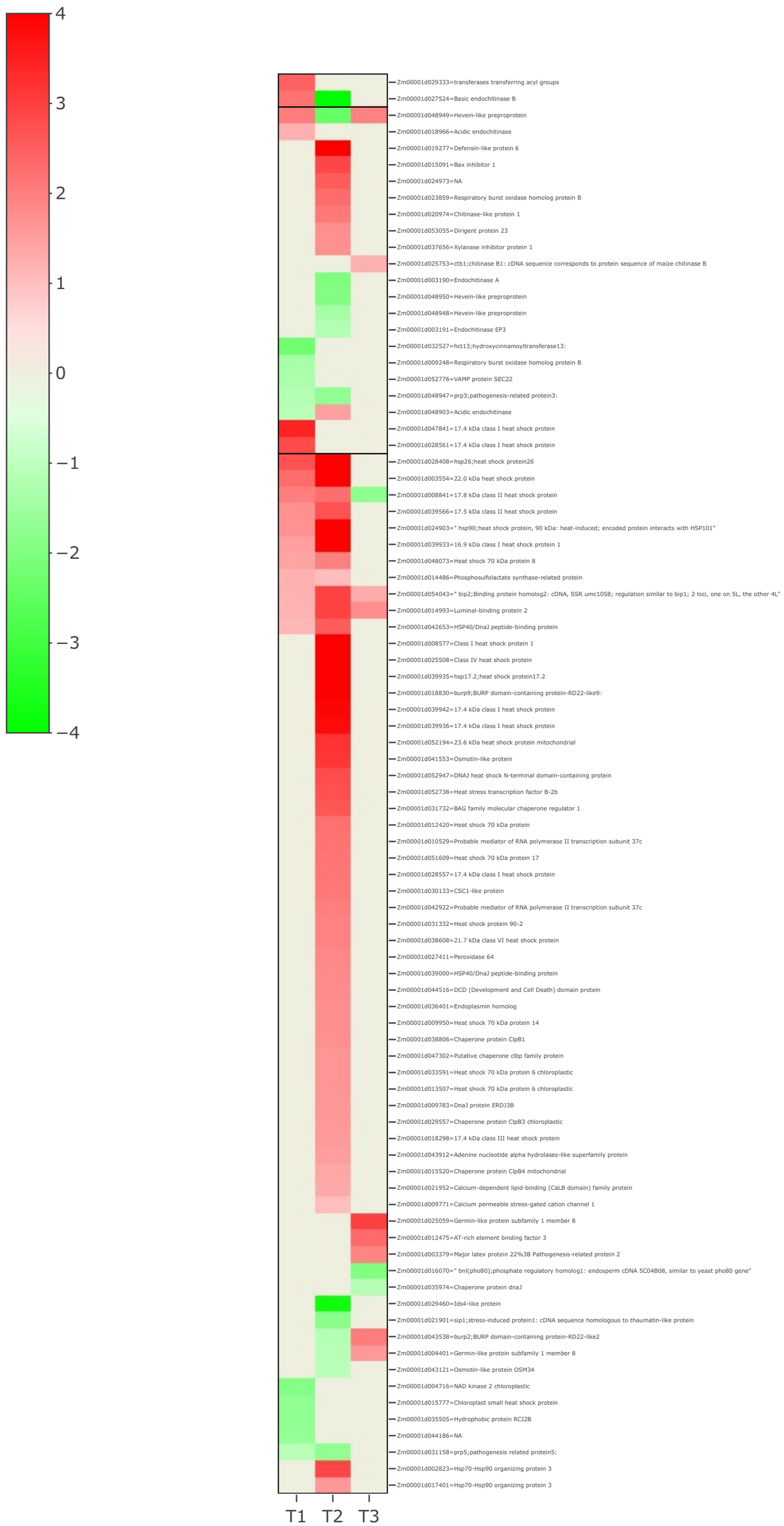
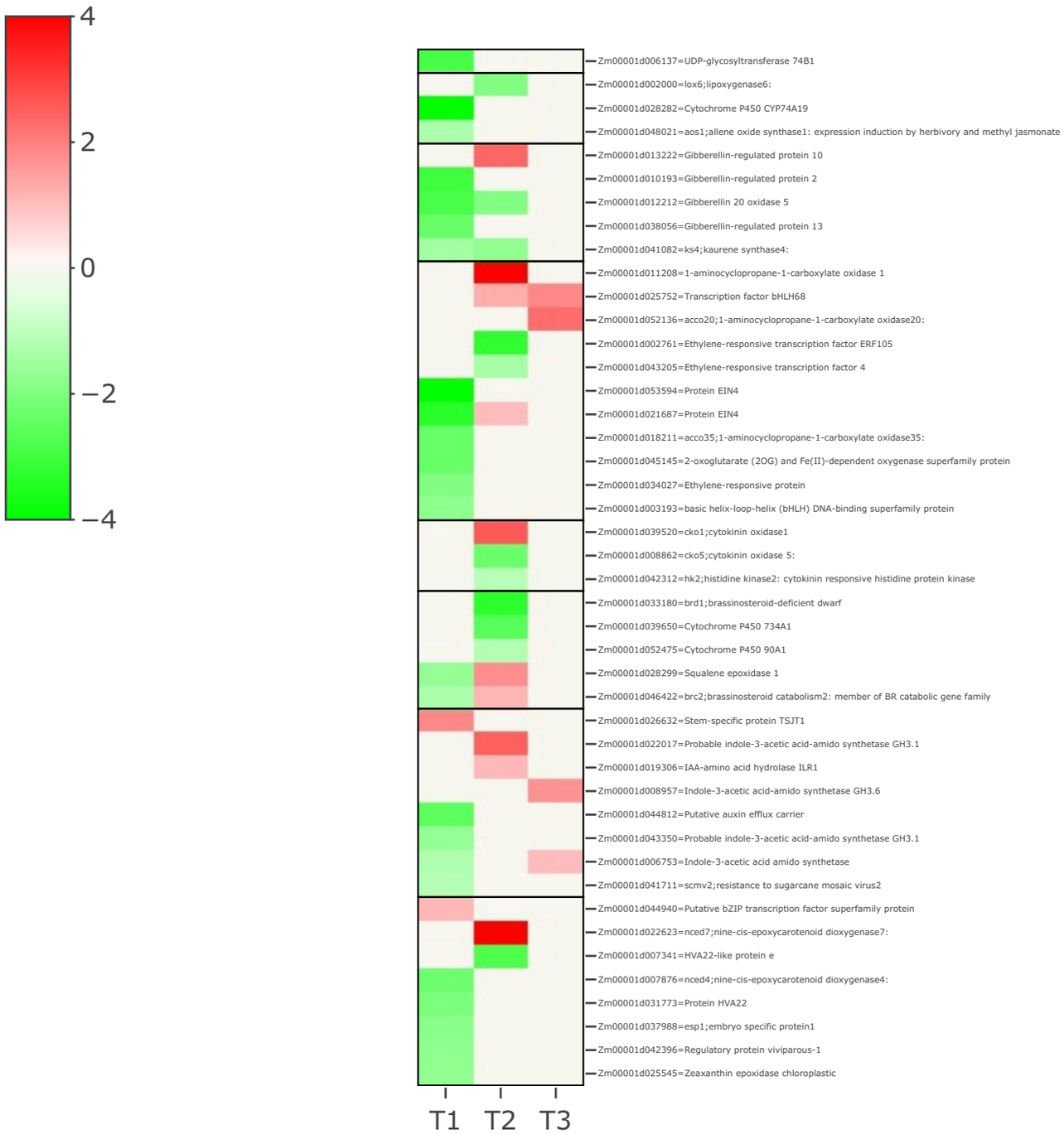
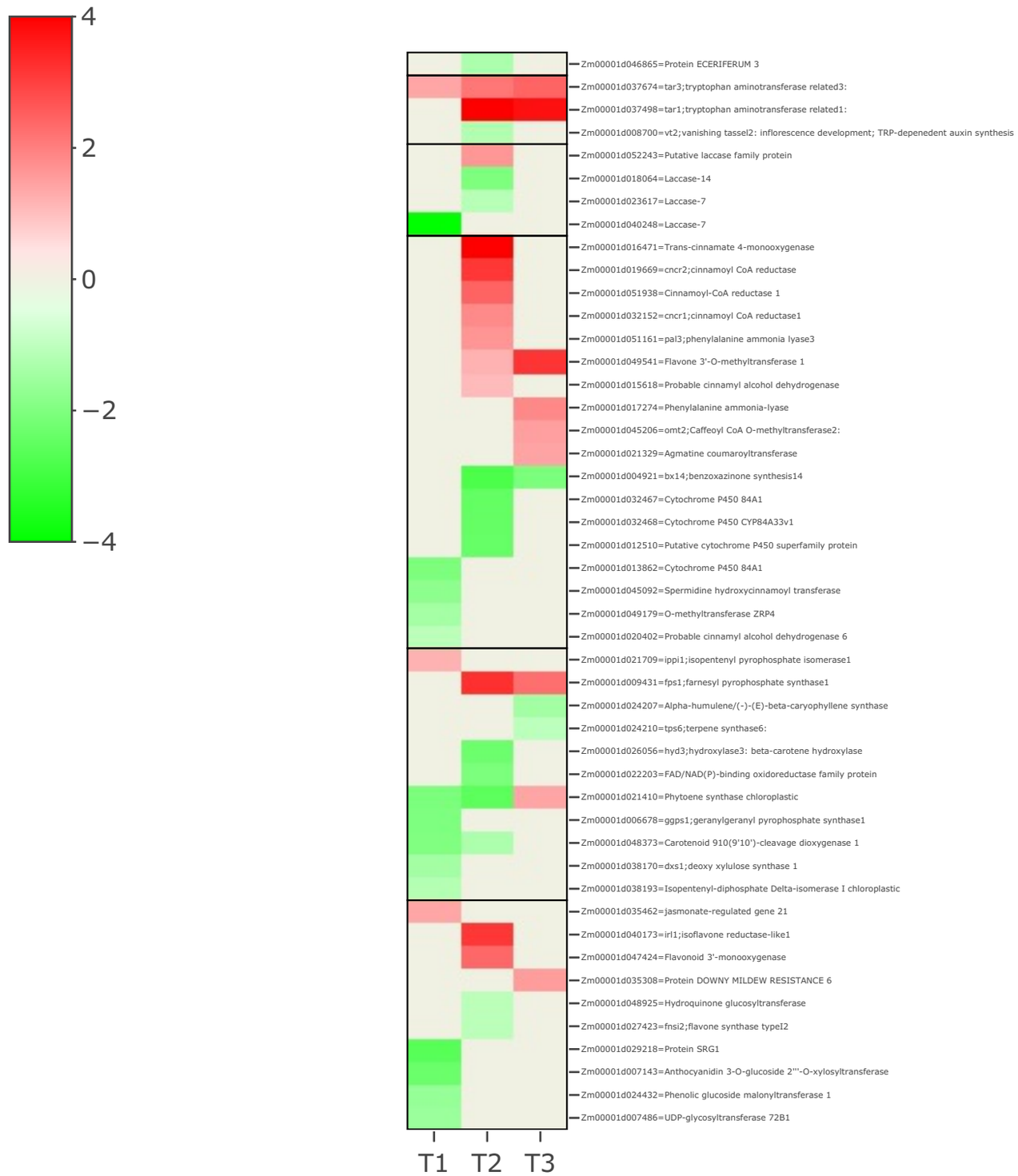

4
3
2
1
0
−1
−2
−3
−4
Stress
Secondary Metabolism
Redox
Hormone Metabolism
Cell Wall
T1
T2
T3
Zm00001d043168=MAR-binding filament-like protein 1-1 isoform 2
Zm00001d043121=Osmotin-like protein OSM34
Zm00001d043088=TRAM LAG1 and CLN8 (TLC) lipid-sensing domain containing protein
Zm00001d043059=Protein FATTY ACID EXPORT 3 chloroplastic
Zm00001d043014=Abscisic acid receptor PYL5
Zm00001d042973=Q-domain 3
Zm00001d042965=Nucleic acid binding protein
Zm00001d042923=Probable mediator of RNA polymerase II transcription subunit 37c
Zm00001d042918=ENTH/VHS family protein
Zm00001d042886=pth3,protein phosphatase homolog3;
Zm00001d042869=Aldose reductase
Zm00001d042863=NA
Zm00001d042842=pho2,starch phosphorylase2: cytosolic starch phosphorylase
Zm00001d042812=Tetratricopeptide repeat (TPR)-like superfamily protein
Zm00001d042801=GABA transporter 1
Zm00001d042684=Protein NRT1/ PTR FAMILY 5.10
Zm00001d042654=Beta-galactosidase
Zm00001d042653=HSP40/DnaJ peptide-binding protein
Zm00001d042634=Extracellul ring-cleavage dioxygenase
Zm00001d042609=NAC domain-containing protein 49%3B NAC transcription factor
Zm00001d042591=Agamous-like MADS-box protein AGL11
Zm00001d042519=Pentatricopeptide repeat-containing protein
Zm00001d042504=Patatin-like protein 2
Zm00001d042453=atl1,atblast1: cytosolic aldolase; cDNA and genomic clones
Zm00001d042444=EDS1-lahel cysteine endopeptidase CEP1
Zm00001d042396=Regulatory protein viviparous-1
Zm00001d042353=sps2,sucrose phosphate synthase2: leaf cDNA css328, sequence similar to sps1
Zm00001d042312=hk2,histidine kinase2: cytokinin responsive histidine protein kinase
Zm00001d042267=Auxin response factor 10
Zm00001d042225=Heavy metal transport/detoxification superfamily protein
Zm00001d042191=catalytic
Zm00001d042154=40S ribosomal protein S4-3
Zm00001d042140=Beta-1%2C3-glucanase
Zm00001d042027=NA
Zm00001d042019=Peroxidase 12
Zm00001d041972=Cellulose synthase-like protein G3
Zm00001d041930=Transcription factor MYB44
Zm00001d041788=Protein SUPPRESSOR OF GENE SILENCING 3
Zm00001d041781=Agamous-like MADS-box protein AGL11
Zm00001d041711=scmv2,resistance to sugarcane mosaic virus2: dominant Scmv1 and Scmv2 confer resistance
Zm00001d041685=RALF
Zm00001d041570=Expressed protein; protein
Zm00001d041553=Osmotin-like protein
Zm00001d041480=DEAD-box ATP-dependent RNA helicase 53
Zm00001d041277=Putative axial regulator YABBY 2
Zm00001d041082=ksk4,kaurene synthase4:
Zm00001d040807=CASP-like protein 4
Zm00001d040721=Dihydrolipoyl dehydrogenase 2 mitochondrial
Zm00001d040672=Serine/arginine-rich splicing factor SR34
Zm00001d040611=Stress-inducible membrane pore protein
Zm00001d040611=Homeobox protein liguleless 3
Zm00001d040593=WRT1-related protein
Zm00001d040561=NA
Zm00001d040468=mfsd1,major facilitator superfamily defense1: Defense-inducible protein related to integral membrane permeases and bacterial antiporters
Zm00001d040399=Peroxidase 24
Zm00001d040345=PQ-loop repeat family protein / transmembrane family protein
Zm00001d040291=Dynein light chain type 1 family protein
Zm00001d040290=Epoxide hydrolase 2
Zm00001d040248=Laccase-7
Zm00001d040212=NA
Zm00001d040055=Protein DETOXIFICATION 16
Zm00001d040053=NA
Zm00001d039993=F-box protein
Zm00001d039945=mdc1,mouse DNA EBV homolog1: endosperm cDNA SCED007, similar to mouse homolog to Epstein-Barr virus DK3 repeat
Zm00001d039939=Probable metal-nicotianamine transporter YSL6
Zm00001d039938=Stomatosin
Zm00001d039861=Potassium high-affinity transporter
Zm00001d039857=cs1,cameon homolog1: low copy number, leaf cDNA csu148, similar to Arabidopsis calnexin
Zm00001d039846=Mitochondrial import inner membrane translocase subunit Tim17/Tim22/Tim23 family protein
Zm00001d039839=Aconitate dehydratase/prephenate dehydratase 6 chloroplastic
Zm00001d039814=Vicilin-like seed storage protein
Zm00001d039760=Bifunctional inhibitor/lipid-transfer protein/seed storage 2S albumin superfamily protein
Zm00001d039750=Digalactosyldiacylglycerol synthase 1 chloroplastic
Zm00001d039749=Aluminum-activated malate transporter 8
Zm00001d039690=NA
Zm00001d039689=Hypersensitive-induced response protein 2
Zm00001d039677=Transcription factor bHLH95
Zm00001d039660=Acetyltransferase
Zm00001d039559=22.0 kDa heat shock protein
Zm00001d039455=ETHYLENE INSENSITIVE 3-like 5 protein
Zm00001d039422=Amino acid/polyamine transporter II
Zm00001d039389=fl,floury endosperm1: (was ef) endosperm opaque, soft; dosage effect with fl1-ref allele, but o4 allele is recessive
Zm00001d039379=Major latex protein 22%3B Pathogenesis-related protein 2
Zm00001d038163=pdc1,pyruvate, orthophosphate dikinase1: cDNA, genomic and peptide sequences
Zm00001d038087=dwf1,dwarf & irregular leaf1: mutant plants have shorter internodes, shorter, wider and wrinkled leaves, as well as smaller leaf angle
Zm00001d038077=NA
Zm00001d038059=Gibberellin-regulated protein 13
Zm00001d038049=Luteinase-2%3B Putative O-Glycosyl hydrolase superfamily protein
Zm00001d037988=eap1,embryo specific protein1: late embryonic protein
Zm00001d037985=eap5,embryo specific protein5: (was EmbS); cDNA clone, embryos specific, ABA responsive
Zm00001d037941=Ethylene-responsive transcription factor RAP2-3
Zm00001d037934=UDP-glucuronic acid decarboxylase 4
Zm00001d037915=Late embryogenesis abundant (LEA) hydroxyproline-rich glycoprotein family
Zm00001d037894=Dehydrin DHN1
Zm00001d037868=Eukaryotic peptide chain release factor subunit 1-1
Zm00001d037829=Probable receptor-like protein kinase
Zm00001d037769=Zinc finger CCCH domain-containing protein 23
Zm00001d037766=NA
Zm00001d037711=Leucine-rich repeat extension-like protein 3
Zm00001d037687=der3,deficit3:
Zm00001d037656=Pylarase inhibitor protein 1
Zm00001d037627=Lactoylglutathione lyase
Zm00001d037632=NA
Zm00001d037529=Acyl-CoA N-acyltransferase with RING/FYVE/PHD-type zinc finger protein
Zm00001d037507=Gamma-aminobutyrate transaminase POP2 mitochondrial
Zm00001d037498=lar1,tryptophan aminotransferase related1:
Zm00001d037493=Hoparasse-like protein 3
Zm00001d037492=Pyrophosphate-energized vacuolar membrane proton pump 1
Zm00001d037488=NA
Zm00001d037439=ZCN1%3B ZCN11 isoform 1%3B ZCN11 isoform 2
Zm00001d037436=NA
Zm00001d037404=Steroid nuclear receptor ligand-binding
Zm00001d037222=ATP-dependent zinc metalloprotease FTSH 6 chloroplastic
Zm00001d037209=Probable RNA-binding protein ARP1
Zm00001d037205=Protein EXORDIUM
Zm00001d037059=Alpha-glucan water dikinase 1 chloroplastic
Zm00001d037052=Ubiquitin-conjugating enzyme E2 11
Zm00001d037025=GDSL esterase/lipase
Zm00001d036973=Putative leucine-rich repeat receptor-like protein kinase family protein
Zm00001d036965=Zinc transporter 4
Zm00001d036281=Cellulase (glycosyl hydrolase family 5) protein
Zm00001d036247=mae1,malate synthase1: cDNA isolated by antibody screen
Zm00001d036193=basic helix-loop-helix (bHLH) DNA-binding superfamily protein
Zm00001d036162=Endochitinase BF3
Zm00001d036190=Endochitinase A
Zm00001d036116=Major facilitator superfamily protein
Zm00001d035962=NA
Zm00001d041380=EID1-like F-box protein 3
Zm00001d035437=Alba DNA/RNA binding protein
Zm00001d035481=Fatty acid amide hydrolase
Zm00001d035734=Aspartyl protease APCB1
Zm00001d035716=NAD kinase 2 chloroplastic
Zm00001d035705=Amino acid permease 2
Zm00001d035439=zpu1,pullulanase-type starch debranching enzyme1 starch catabolism.
Zm00001d035401=Gamma-tbx protein subfamily 1 member B
Zm00001d035248=UDP-glycosyltransferase 85A7
Zm00001d035196=CASP-like protein 2A1
Zm00001d035417=Transketolase 1 chloroplastic
Zm00001d039492=myb-like transcription factor family protein
Zm00001d039474=AUGRIN subunit 4
Zm00001d039468=Grx, A2 glutaredoxin subgroup III
Zm00001d039387=cis2b,&7&, , NCBI: heme-binding protein 2 alex heme-binding protein 2 precursor
Zm00001d039371=Transcription factor TCP4
Zm00001d039364=NA
Zm00001d039166=Plant cysteine oxidase 2
Zm00001d039133=agp2,ADP glucose pyrophosphorylase2: embryo specific counterpart to sh2
Zm00001d039088=Phosphotyrase A1 Glycamine
Zm00001d039081=CTP synthase family protein
Zm00001d039029=thiamine monophosphate synthase
Zm00001d039004=NAC87 NAC type transcription factor
Zm00001d039001=Expressed protein; protein
Zm00001d038999=HSP40/DnaJ peptide-binding protein
Zm00001d038999=drought-induced 19
Zm00001d038990=Tumor protein-like protein%3B Tumor-related protein-like
Zm00001d038974=alpha/beta-Hydrolases superfamily protein
Zm00001d038925=NA
Zm00001d038907=AP2/EREF and B3 domain-containing transcription repressor TEM1
Zm00001d038879=Late embryogenesis abundant protein%2C group 3
Zm00001d038844=Protein phosphatase 2C 16
Zm00001d038806=Chaperone protein ClpB1
Zm00001d038772=CCCH transcription factor%3B CCCH transcription factor isoform 1%3B CCCH transcription factor isoform 2
Zm00001d038717=Seed specific protein Bnc1G017A
Zm00001d038688=nsp6,Rho-related protein6:
Zm00001d038682=PLASMODESMATA CALLOSE-BINDING PROTEIN 2
Zm00001d038657=P-loop containing nucleoside triphosphate hydrolases superfamily protein
Zm00001d038618=Cyclic nucleotide gated ion channel 4
Zm00001d038609=21.7 kDa class VI heat shock protein
Zm00001d038607=Alkyl alcohol dehydrogenase-like protein
Zm00001d038597=gb13,globulin3: 18 kD alpha globulin
Zm00001d038558=pac3,cystatin3:
Zm00001d038433=Putative aminotransferase class III superfamily protein
Zm00001d038449=Sorting nexin 2B
Zm00001d038365=Aldo-keto reductase family 4 member C9
Zm00001d038326=Serine/threonine-protein kinase SRK2A
Zm00001d038320=Putative AP2/EREBP transcription factor superfamily protein
Zm00001d038288=Putative MYB DNA-binding domain superfamily protein
Zm00001d038274=Tetratricopeptide repeat (TPR)-like superfamily protein
Zm00001d038193=Isopentenyl diphosphate Delta-isomerase I chloroplastic
Zm00001d038186=Protein NRT1/ PTR FAMILY 3.1
Zm00001d038173=pac5,cystatin5:
Zm00001d038179=dxs1,deoxy xylulose synthase 1: leaf specific; function inferred from Medicago trunculata gene sequence and expression pattern (Walter 2002)
Zm00001d034413=Glutelin-2
Zm00001d034349=Ubiquitin-conjugating enzyme E2 2
Zm00001d034373=BEST Arabidopsis thaliana protein match is: FASCICLIN-like arabinogalactan protein 17 precursor (TAIR:AT5G06290.1); Has 1807 Blast hits to 1807 proteins in 277 species: Archae
Zm00001d034356=gst5,glutathione transferase5: cDNA, safener-induced; high activity with fluorodifen herbicide
Zm00001d034205=Probable xyloglucan glycosyltransferase 12
Zm00001d034175=CCG-binding protein 1
Zm00001d034157=NA
Zm00001d034128=Peroxidase 73
Zm00001d034107=cytochrome P450 family B1 subfamily D polypeptide 8
Zm00001d034096=cytochrome P450 family B1 subfamily D polypeptide 8
Zm00001d034066=UDP-glycosyltransferase 83A1
Zm00001d034062=PLASMODESMATA CALLOSE-BINDING PROTEIN 2
Zm00001d034037=Cincumporoside protein
Zm00001d034027=Ethylene-responsive protein
Zm00001d034017=Enhydrolase II
Zm00001d034003=Late embryogenesis abundant protein 31
Zm00001d034002=Late embryogenesis abundant protein D-34
Zm00001d033990=Bax inhibitor-1 family protein
Zm00001d033949=Tubby-like F-box protein 2
Zm00001d033931=Alcohol dehydrogenase 1
Zm00001d033909=Expressed protein; protein
Zm00001d033906=Endoplasmic oxidoreductin-1
Zm00001d033878=ACT domain-containing protein ACR1
Zm00001d033846=NA
Zm00001d040429=Putative growth-regulating factor 6
Zm00001d002396=Calcium-transporting ATPase 9 plasma membrane-type
Zm00001d002387=NA
Zm00001d002360=Embryonic protein DC-8
Zm00001d002357=Protein kinase superfamily protein
Zm00001d002302=Auxin responsive protein
Zm00001d002256=Starch synthase 3 chloroplastic/amyloplastic
Zm00001d002191=Organic cation/carnitine transporter 4
Zm00001d002121=Wound-responsive family protein
Zm00001d002122=RNA-binding (RRM/RBD/RNP motifs) family protein
Zm00001d002052=Probable isoaspartyl peptidase/L-asparaginase 2
Zm00001d002025=WD1-like ethylene-responsive transcription factor AIL5
Zm00001d002004=Peroxidase 16
Zm00001d042262=Inducer of CBF expression 2
Zm00001d042011=AWPM-19-like family protein
Zm00001d040189=nrp1,no-apical-meristem-related protein1: nacdf128
Zm00001d037334=Sugary2
Zm00001d037576=Pyrophosphate-energized vacuolar membrane proton pump
Zm00001d037674=lar3,tryptophan aminotransferase-related3:
Zm00001d004357=pt102,protein phosphatase homolog10:
Zm00001d002089=Tetratricopeptide repeat (TPR)-like superfamily protein
Zm00001d002325=NA
Zm00001d034074=pho1,starch phosphorylase1: amyloplast starch phosphorylase
Zm00001d038913=bp1,lipid transfer protein1

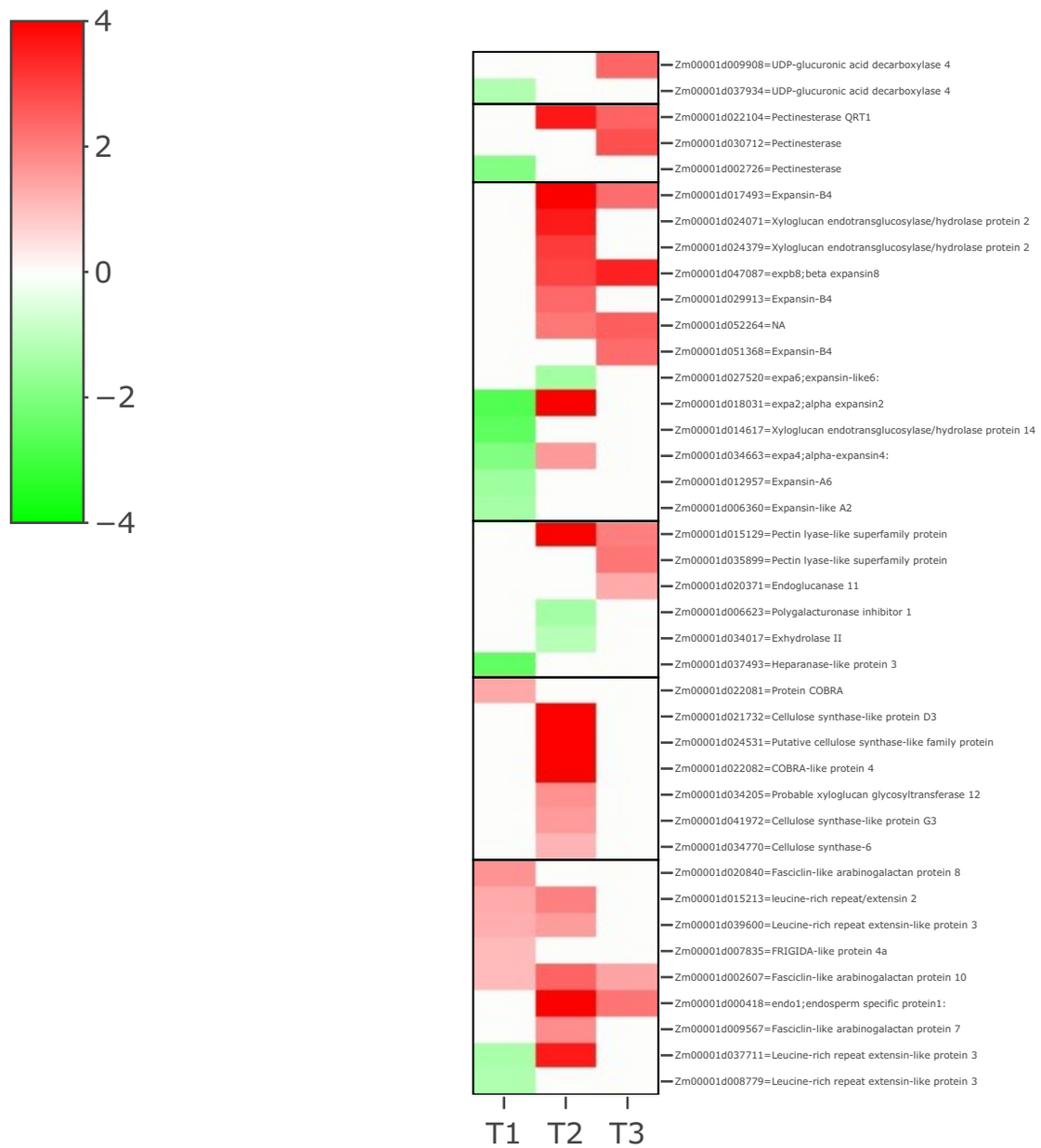

4
2
0
−2
−4
Zm00001d048868=14-3-3-like protein GF14 epsilon
Zm00001d020101=Receptor-like protein kinase HSL1
Zm00001d043649=NA
Zm00001d026303=Putative leucine-rich repeat receptor-like protein kinase family protein
Zm00001d026488=OSJNBb0022F16.11 protein; protein
Zm00001d045945=lgn1;liguleless narrow1
Zm00001d028808=senescence associated gene 20
Zm00001d053769=Putative leucine-rich repeat protein kinase family protein
Zm00001d036972=Putative leucine-rich repeat receptor-like protein kinase family protein
Zm00001d005986=Probable LRR receptor-like serine/threonine-protein kinase
Zm00001d043800=LEAF RUST 10 DISEASE-RESISTANCE LOCUS RECEPTOR-LIKE PROTEIN KINASE-like 1.1
Zm00001d026306=Putative leucine-rich repeat receptor-like protein kinase family protein
Zm00001d005849=Histone H3 K4-specific methyltransferase SET7/9 family protein
Zm00001d031777=Histone H3 K4-specific methyltransferase SET7/9 family protein
Zm00001d048258=Phosphoinositide phosphatase SAC2
Zm00001d041685=RALF
Zm00001d023856=RALF
Zm00001d036651=F10K1.23
Zm00001d023313=BTB/POZ domain-containing protein
Zm00001d021949=BTB/POZ domain-containing protein
Zm00001d006551=NA
Zm00001d013402=phyA2;phytochromeA2: red/far red light signal receptorphyB2, phyC1, phyC2
Zm00001d047632=Phytochrome
Zm00001d037205=Protein EXORDIUM
Zm00001d015200=5'-AMP-activated protein kinase-related
Zm00001d052364=Cysteine desulfurase 1 chloroplastic
Zm00001d011392=Calcium-dependent protein kinase
Zm00001d042973=IQ-domain 3
Zm00001d028428=Calcium-binding EF-hand family protein
Zm00001d029758=Calcium-dependent protein kinase 6
Zm00001d031543=Calcium-transporting ATPase 9 plasma membrane-type
Zm00001d019283=Calreticulin
Zm00001d003857=clx1;calnexin homolog1
Zm00001d028948=Calmodulin-7
Zm00001d028252=Caleosin
Zm00001d002630=Calmodulin binding protein
Zm00001d002396=Calcium-transporting ATPase 9 plasma membrane-type
Zm00001d053284=Calcium-dependent lipid-binding (CaLB domain) family protein
Zm00001d031685=Big map kinase/bmk
Zm00001d049080=mitogen-activated protein kinase kinase kinase 3
Zm00001d032879=ADP-ribosylation factor GTPase-activating protein AGD1
Zm00001d010538=Ras-related protein RABE1c
Zm00001d039546=Ras-related protein RABG3a
Zm00001d045393=Ran BP2/NZF zinc finger-like superfamily protein
Zm00001d032044=Ypt/Rab-GAP domain of gyp1p superfamily protein
Zm00001d017545=SEC14 cytosolic factor family protein / phosphoglyceride transfer family protein
Zm00001d038688=rop6;Rho-related protein6:
Zm00001d011474=Ran GTP binding protein
Zm00001d013840=Ypt/Rab-GAP domain of gyp1p superfamily protein
Zm00001d035926=Extra-large guanine nucleotide-binding protein 3
T1
T2
T3


4
2
0
−2
−4
Zm00001d011352=Electron transporter
Zm00001d020687=pdi8;protein disulfide isomerase8:
Zm00001d011581=Peroxiredoxin-2B
Zm00001d046682=Peroxiredoxin-5
Zm00001d039468=Grx_A2-glutaredoxin subgroup III
Zm00001d032669=glutaredoxin-related
Zm00001d054044=Catalase isozyme 3
Zm00001d027511=Catalase isozyme 2
Zm00001d009990=Superoxide dismutase [Mn] 3.4
Zm00001d013725=ga20ox4;gibberellin 20-oxidase4:
Zm00001d007718=bx13;benzoxazinone synthesis13
Zm00001d048634=DIBOA-glucoside dioxygenase BX6
T1
T2
T3


4
3
2
1
0
−1
−2
−3
−4
Zm00001d029333=transferases transferring acyl groups
Zm00001d027524=Basic endochitinase B
Zm00001d048949=Hevein-like preproprotein
Zm00001d018966=Acidic endochitinase
Zm00001d019277=Defensin-like protein 6
Zm00001d015091=Bax inhibitor 1
Zm00001d024973=NA
Zm00001d023859=Respiratory burst oxidase homolog protein B
Zm00001d020974=Chitinase-like protein 1
Zm00001d053055=Dirigent protein 23
Zm00001d037656=Xylanase inhibitor protein 1
Zm00001d025753=ctb1;chitinase B1: cDNA sequence corresponds to protein sequence of maize chitinase B
Zm00001d003190=Endochitinase A
Zm00001d048950=Hevein-like preproprotein
Zm00001d048948=Hevein-like preproprotein
Zm00001d003191=Endochitinase EP3
Zm00001d032527=hct13;hydroxycinnamoyltransferase13:
Zm00001d009248=Respiratory burst oxidase homolog protein B
Zm00001d052776=VAMP protein SEC22
Zm00001d048947=prp3;pathogenesis-related protein3:
Zm00001d048903=Acidic endochitinase
Zm00001d047841=17.4 kDa class I heat shock protein
Zm00001d028561=17.4 kDa class I heat shock protein
Zm00001d028408=hsp26;heat shock protein26
Zm00001d003554=22.0 kDa heat shock protein
Zm00001d008841=17.8 kDa class II heat shock protein
Zm00001d039566=17.5 kDa class II heat shock protein
Zm00001d024903=" hsp90;heat shock protein, 90 kDa: heat-induced; encoded protein interacts with HSP101"
Zm00001d039933=16.9 kDa class I heat shock protein 1
Zm00001d048073=Heat shock 70 kDa protein 8
Zm00001d014486=Phosphosulfolactate synthase-related protein
Zm00001d054043=" bip2;Binding protein homolog2: cDNA, SSR umc1058; regulation similar to bip1; 2 loci, one on 5L, the other 4L"
Zm00001d014993=Luminal-binding protein 2
Zm00001d042653=HSP40/DnaJ peptide-binding protein
Zm00001d008577=Class I heat shock protein 1
Zm00001d025508=Class IV heat shock protein
Zm00001d039935=hsp17.2;heat shock protein17.2
Zm00001d018830=burp9;BURP domain-containing protein-RD22-like9:
Zm00001d039942=17.4 kDa class I heat shock protein
Zm00001d039936=17.4 kDa class I heat shock protein
Zm00001d052194=23.6 kDa heat shock protein mitochondrial
Zm00001d041553=Osmotin-like protein
Zm00001d052947=DNAJ heat shock N-terminal domain-containing protein
Zm00001d052738=Heat stress transcription factor B-2b
Zm00001d031732=BAG family molecular chaperone regulator 1
Zm00001d012420=Heat shock 70 kDa protein
Zm00001d010529=Probable mediator of RNA polymerase II transcription subunit 37c
Zm00001d051609=Heat shock 70 kDa protein 17
Zm00001d028557=17.4 kDa class I heat shock protein
Zm00001d030133=CSC1-like protein
Zm00001d042922=Probable mediator of RNA polymerase II transcription subunit 37c
Zm00001d031332=Heat shock protein 90-2
Zm00001d038608=21.7 kDa class VI heat shock protein
Zm00001d027411=Peroxidase 64
Zm00001d039000=HSP40/DnaJ peptide-binding protein
Zm00001d044516=DCD (Development and Cell Death) domain protein
Zm00001d036401=Endoplasmin homolog
Zm00001d009950=Heat shock 70 kDa protein 14
Zm00001d038806=Chaperone protein ClpB1
Zm00001d047302=Putative chaperone clbp family protein
Zm00001d033591=Heat shock 70 kDa protein 6 chloroplastic
Zm00001d013507=Heat shock 70 kDa protein 6 chloroplastic
Zm00001d009783=DnaJ protein ERDJ3B
Zm00001d029557=Chaperone protein ClpB3 chloroplastic
Zm00001d018298=17.4 kDa class III heat shock protein
Zm00001d043912=Adenine nucleotide alpha hydrolases-like superfamily protein
Zm00001d015520=Chaperone protein ClpB4 mitochondrial
Zm00001d021952=Calcium-dependent lipid-binding (CaLB domain) family protein
Zm00001d009771=Calcium permeable stress-gated cation channel 1
Zm00001d025059=Germin-like protein subfamily 1 member 8
Zm00001d012475=AT-rich element binding factor 3
Zm00001d003379=Major latex protein 22%3B Pathogenesis-related protein 2
Zm00001d016070=" bnl(pho80);phosphate regulatory homolog1: endosperm cDNA 5C04B08, similar to yeast pho80 gene"
Zm00001d035974=Chaperone protein dnaJ
Zm00001d029460=Ids4-like protein
Zm00001d021901=sip1;stress-induced protein1: cDNA sequence homologous to thaumatin-like protein
Zm00001d043538=burp2;BURP domain-containing protein-RD22-like2
Zm00001d004401=Germin-like protein subfamily 1 member 8
Zm00001d043121=Osmotin-like protein OSM34
Zm00001d004716=NAD kinase 2 chloroplastic
Zm00001d015777=Chloroplast small heat shock protein
Zm00001d035505=Hydrophobic protein RCI2B
Zm00001d044186=NA
Zm00001d031158=prp5;pathogenesis related protein5:
Zm00001d002823=Hsp70-Hsp90 organizing protein 3
Zm00001d017401=Hsp70-Hsp90 organizing protein 3
T1
T2
T3


4
2
0
−2
−4
Zm00001d006137=UDP-glycosyltransferase 74B1
Zm00001d002000=lox6;lipoxygenase6:
Zm00001d028282=Cytochrome P450 CYP74A19
Zm00001d048021=aos1;allene oxide synthase1: expression induction by herbivory and methyl jasmonate
Zm00001d013222=Gibberellin-regulated protein 10
Zm00001d010193=Gibberellin-regulated protein 2
Zm00001d012212=Gibberellin 20 oxidase 5
Zm00001d038056=Gibberellin-regulated protein 13
Zm00001d041082=ks4;kaurene synthase4:
Zm00001d011208=1-aminocyclopropane-1-carboxylate oxidase 1
Zm00001d025752=Transcription factor bHLH68
Zm00001d052136=acco20;1-aminocyclopropane-1-carboxylate oxidase20:
Zm00001d002761=Ethylene-responsive transcription factor ERF105
Zm00001d043205=Ethylene-responsive transcription factor 4
Zm00001d053594=Protein EIN4
Zm00001d021687=Protein EIN4
Zm00001d018211=acco35;1-aminocyclopropane-1-carboxylate oxidase35:
Zm00001d045145=2-oxoglutarate (2OG) and Fe(II)-dependent oxygenase superfamily protein
Zm00001d034027=Ethylene-responsive protein
Zm00001d003193=basic helix-loop-helix (bHLH) DNA-binding superfamily protein
Zm00001d039520=cko1;cytokinin oxidase1
Zm00001d008862=cko5;cytokinin oxidase 5:
Zm00001d042312=hk2;histidine kinase2: cytokinin responsive histidine protein kinase
Zm00001d033180=brd1;brassinosteroid-deficient dwarf
Zm00001d039650=Cytochrome P450 734A1
Zm00001d052475=Cytochrome P450 90A1
Zm00001d028299=Squalene epoxidase 1
Zm00001d046422=brc2;brassinosteroid catabolism2: member of BR catabolic gene family
Zm00001d026632=Stem-specific protein TSJT1
Zm00001d022017=Probable indole-3-acetic acid-amido synthetase GH3.1
Zm00001d019306=IAA-amino acid hydrolase ILR1
Zm00001d008957=Indole-3-acetic acid-amido synthetase GH3.6
Zm00001d044812=Putative auxin efflux carrier
Zm00001d043350=Probable indole-3-acetic acid-amido synthetase GH3.1
Zm00001d006753=Indole-3-acetic acid amido synthetase
Zm00001d041711=scmv2;resistance to sugarcane mosaic virus2
Zm00001d044940=Putative bZIP transcription factor superfamily protein
Zm00001d022623=nced7;nine-cis-epoxycarotenoid dioxygenase7:
Zm00001d007341=HVA22-like protein e
Zm00001d007876=nced4;nine-cis-epoxycarotenoid dioxygenase4:
Zm00001d031773=Protein HVA22
Zm00001d037988=esp1;embryo specific protein1
Zm00001d042396=Regulatory protein viviparous-1
Zm00001d025545=Zeaxanthin epoxidase chloroplastic
T1
T2
T3


4
2
0
−2
−4
Zm00001d046865=Protein ECERIFERUM 3
Zm00001d037674=tar3;tryptophan aminotransferase related3:
Zm00001d037498=tar1;tryptophan aminotransferase related1:
Zm00001d008700=vt2;vanishing tassel2: inflorescence development; TRP-depenedent auxin synthesis
Zm00001d052243=Putative laccase family protein
Zm00001d018064=Laccase-14
Zm00001d023617=Laccase-7
Zm00001d040248=Laccase-7
Zm00001d016471=Trans-cinnamate 4-monooxygenase
Zm00001d019669=cncr2;cinnamoyl CoA reductase
Zm00001d051938=Cinnamoyl-CoA reductase 1
Zm00001d032152=cncr1;cinnamoyl CoA reductase1
Zm00001d051161=pal3;phenylalanine ammonia lyase3
Zm00001d049541=Flavone 3'-O-methyltransferase 1
Zm00001d015618=Probable cinnamyl alcohol dehydrogenase
Zm00001d017274=Phenylalanine ammonia-lyase
Zm00001d045206=omt2;Caffeoyl CoA O-methyltransferase2:
Zm00001d021329=Agmatine coumaroyltransferase
Zm00001d004921=bx14;benzoxazinone synthesis14
Zm00001d032467=Cytochrome P450 84A1
Zm00001d032468=Cytochrome P450 CYP84A33v1
Zm00001d012510=Putative cytochrome P450 superfamily protein
Zm00001d013862=Cytochrome P450 84A1
Zm00001d045092=Spermidine hydroxycinnamoyl transferase
Zm00001d049179=O-methyltransferase ZRP4
Zm00001d020402=Probable cinnamyl alcohol dehydrogenase 6
Zm00001d021709=ippi1;isopentenyl pyrophosphate isomerase1
Zm00001d009431=fps1;farnesyl pyrophosphate synthase1
Zm00001d024207=Alpha-humulene/(-)-(E)-beta-caryophyllene synthase
Zm00001d024210=tps6;terpene synthase6:
Zm00001d026056=hyd3;hydroxylase3: beta-carotene hydroxylase
Zm00001d022203=FAD/NAD(P)-binding oxidoreductase family protein
Zm00001d021410=Phytoene synthase chloroplastic
Zm00001d006678=ggps1;geranylgeranyl pyrophosphate synthase1
Zm00001d048373=Carotenoid 910(9'10')-cleavage dioxygenase 1
Zm00001d038170=dxs1;deoxy xylulose synthase 1
Zm00001d038193=Isopentenyl-diphosphate Delta-isomerase I chloroplastic
Zm00001d035462=jasmonate-regulated gene 21
Zm00001d040173=irl1;isoflavone reductase-like1
Zm00001d047424=Flavonoid 3'-monooxygenase
Zm00001d035308=Protein DOWNY MILDEW RESISTANCE 6
Zm00001d048925=Hydroquinone glucosyltransferase
Zm00001d027423=fnsi2;flavone synthase typeI2
Zm00001d029218=Protein SRG1
Zm00001d007143=Anthocyanidin 3-O-glucoside 2'''-O-xylosyltransferase
Zm00001d024432=Phenolic glucoside malonyltransferase 1
Zm00001d007486=UDP-glycosyltransferase 72B1
T1
T2
T3


4
2
0
−2
−4
Zm00001d009908=UDP-glucuronic acid decarboxylase 4
Zm00001d037934=UDP-glucuronic acid decarboxylase 4
Zm00001d022104=Pectinesterase QRT1
Zm00001d030712=Pectinesterase
Zm00001d002726=Pectinesterase
Zm00001d017493=Expansin-B4
Zm00001d024071=Xyloglucan endotransglucosylase/hydrolase protein 2
Zm00001d024379=Xyloglucan endotransglucosylase/hydrolase protein 2
Zm00001d047087=expb8;beta expansin8
Zm00001d029913=Expansin-B4
Zm00001d052264=NA
Zm00001d051368=Expansin-B4
Zm00001d027520=expa6;expansin-like6:
Zm00001d018031=expa2;alpha expansin2
Zm00001d014617=Xyloglucan endotransglucosylase/hydrolase protein 14
Zm00001d034663=expa4;alpha-expansin4:
Zm00001d012957=Expansin-A6
Zm00001d006360=Expansin-like A2
Zm00001d015129=Pectin lyase-like superfamily protein
Zm00001d035899=Pectin lyase-like superfamily protein
Zm00001d020371=Endoglucanase 11
Zm00001d006623=Polygalacturonase inhibitor 1
Zm00001d034017=Exhydrolase II
Zm00001d037493=Heparanase-like protein 3
Zm00001d022081=Protein COBRA
Zm00001d021732=Cellulose synthase-like protein D3
Zm00001d024531=Putative cellulose synthase-like family protein
Zm00001d022082=COBRA-like protein 4
Zm00001d034205=Probable xyloglucan glycosyltransferase 12
Zm00001d041972=Cellulose synthase-like protein G3
Zm00001d034770=Cellulose synthase-6
Zm00001d020840=Fasciclin-like arabinogalactan protein 8
Zm00001d015213=leucine-rich repeat/extensin 2
Zm00001d039600=Leucine-rich repeat extensin-like protein 3
Zm00001d007835=FRIGIDA-like protein 4a
Zm00001d002607=Fasciclin-like arabinogalactan protein 10
Zm00001d000418=endo1;endosperm specific protein1:
Zm00001d009567=Fasciclin-like arabinogalactan protein 7
Zm00001d037711=Leucine-rich repeat extensin-like protein 3
Zm00001d008779=Leucine-rich repeat extensin-like protein 3
T1
T2
T3