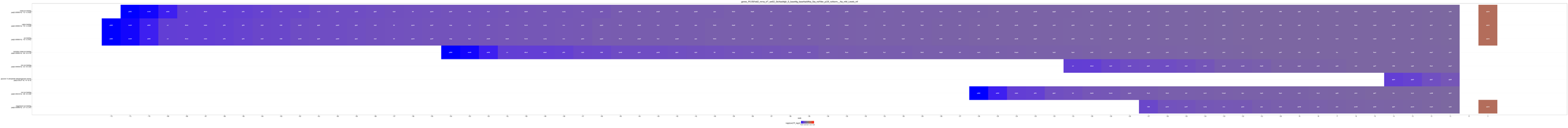

ribB pykA pykF cysQ eno galU ppa ubiA gshB ppx ptsI poxB glcB glpF ppsA copA xylA aphA

glpA glpD glpC glpB

ydbK adhE sdaA pflA glpC bfr dadA fumA ygaG fhuA fdoG def narH hmpA dps ispG fepA entC fecA ygiD yleA galT fes iscA cydB glcF

crr dksA slyD rpmE glpK yqhD clpX yhdH pepD pepN dapE ybiI yggG yeiH ygiD cdd galT hflB ygiE fbaA pepT

ydbK mntH adhE crr dksA sdaA pflA gltS slyD ribB rpmE glpK yqhD glpC clpX bfr pykA pykF map hycI yhdH dadA fumA cysQ eno galU ygaG fhuA pepD fucI pepN ppa fdoG dapE def ubiA otsA narH gshB hmpA ppx dps ispG fepA entC ptsI ybiI yiiM poxB yggG yeiH glcB fecA glgX glpF ygiD ppsA yleA ade glpQ cdd galT hflB ygiE fes iscA fbaA copA cydB pepT glcF xylA aphA

ydbK mntH adhE crr dksA sdaA pflA gltS slyD ribB rpmE glpK yqhD glpC clpX bfr pykA pykF map hycI yhdH dadA fumA cysQ eno galU ygaG fhuA pepD fucI pepN ppa fdoG dapE def ubiA otsA narH gshB hmpA ppx dps ispG fepA entC ptsI ybiI yiiM poxB yggG yeiH glcB fecA glgX glpF ygiD ppsA yleA ade glpQ cdd galT hflB ygiE fes iscA fbaA copA cydB pepT glcF xylA aphA

ydbK mntH adhE crr dksA sdaA pflA gltS slyD ribB rpmE glpK yqhD glpC clpX bfr pykA pykF map hycI yhdH dadA fumA cysQ eno galU ygaG fhuA pepD fucI pepN ppa fdoG dapE def ubiA otsA narH gshB hmpA ppx dps ispG fepA entC ptsI ybiI yiiM poxB yggG yeiH glcB fecA glpF ygiD ppsA yleA ade glpQ cdd galT hflB ygiE fes iscA fbaA copA cydB pepT glcF xylA aphA

ydbK mntH adhE crr dksA sdaA pflA slyD ribB rpmE glpK yqhD glpC clpX bfr map hycI yhdH dadA fumA ygaG fhuA pepD fucI pepN fdoG dapE def narH gshB hmpA dps ispG fepA entC ybiI yiiM yggG yeiH fecA ygiD yleA ade cdd galT hflB ygiE fes iscA fbaA copA cydB pepT glcF

magnesium ion binding
padj:0.00958 N(−17/ +1/ 147)

iron ion binding
padj:0.00219 N(−26/ +0/ 226)

glycerol−3−phosphate dehydrogenase activity
padj:0.00147 N(−4/ +0/ 4)

zinc ion binding
padj:0.00036 N(−21/ +0/ 152)

transition metal ion binding
padj:0.00000 N(−54/ +0/ 473)

ion binding
padj:0.00000 N(−72/ +1/ 641)

cation binding
padj:0.00000 N(−72/ +1/ 639)

metal ion binding
padj:0.00000 N(−71/ +1/ 625)

− 72 −71 −70 −69 −68 −67 −66 −65 −64 −63 −62 −61 −60 −59 −58 −57 −56 −55 −54 −53 −52 −51 −50 −49 −48 −47 −46 −45 −44 −43 −42 −41 −40 −39 −38 −37 −36 −35 −34 −33 −32 −31 −30 −29 −28 −27 −26 −25 −24 −23 −22 −21 −20 −19 −18 −17 −16 −15 −14 −13 −12 −11 −10 −9 −8 −7 −6 −5 −4 −3 −2 −1

0

1

rank

−5.0−2.5 0.0 2.5 5.0

−sign(cor)*P_log10

genes_P0.05Fold2_mrna_trT_set02_StcNasMgh_S_baseMg_baseNaAllNa_Sta_noFilter_p1Sf_noNorm__Na_mM_Levels_mf