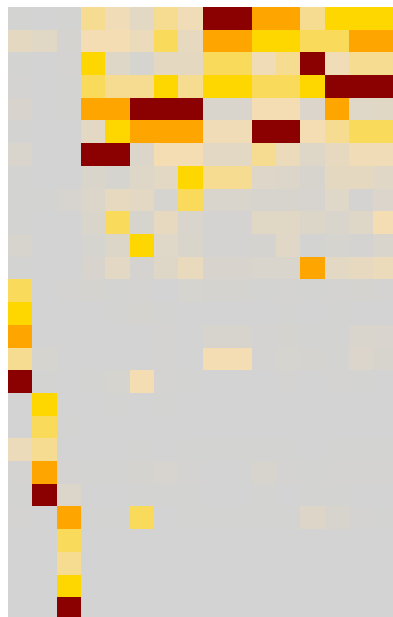
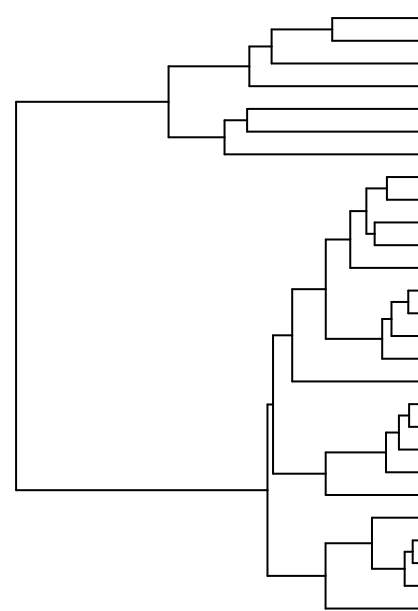
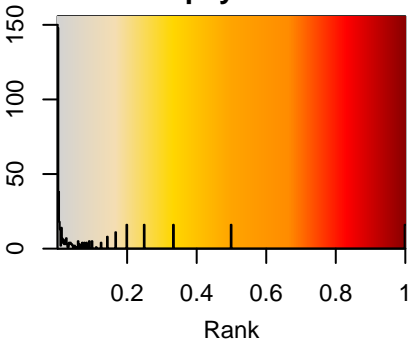


WT  
sunn1  
dnf4  
dnf5  
dnf2  
hcl  
dnf3  
sunn4  
dnf6  
latd  
nad1  
rdn1  
dnf1  
ipd3  
dnf7  
dnf2  
dnf1  
dnf2

CD030\_RS16270:ABC transporter ATP-binding protein/permease; protein\_id=WP\_010968430.1  
CD030\_RS07580:purU, formyltetrahydrofolate deformylase; protein\_id=WP\_010968430.1  
CD030\_RS03630:GGDEF domain-containing phosphodiesterase; protein\_id=WP\_010968430.1  
CD030\_RS05195:mscL, large conductance mechanosensitive channel protein; protein\_id=WP\_010968430.1  
CD030\_RS04135:MBL fold metallo-hydrolase; protein\_id=WP\_015445556  
CD030\_RS15555:cobN, cobaltochelate subunit CobN; protein\_id=WP\_010968430.1  
CD030\_RS06970:TonB-dependent receptor; protein\_id=WP\_010968430.1  
CD030\_RS06960:MFS transporter; protein\_id=WP\_010968432.1  
CD030\_RS04545:flhA, flagellar biosynthesis protein FlhA; protein\_id=WP\_010968432.1  
CD030\_RS05080:SDR family NAD(P)-dependent oxidoreductase (pseudogen); protein\_id=WP\_010968432.1  
CD030\_RS00270:AzC family ABC transporter permease; protein\_id=WP\_010968432.1  
CD030\_RS02435:rkpK, UDP-glucose 6-dehydrogenase; protein\_id=WP\_010968432.1  
CD030\_RS08485:autoinducer binding domain-containing protein (pseudogen); protein\_id=WP\_010968432.1  
CD030\_RS04400:XRE family transcriptional regulator; protein\_id=WP\_010968432.1  
CD030\_RS01280:dprA, DNA-processing protein DprA; protein\_id=WP\_010968432.1  
CD030\_RS03085:EAL domain-containing protein; protein\_id=WP\_010968432.1  
CD030\_RS06075:sppA, signal peptide peptidase SppA; protein\_id=WP\_010968432.1  
CD030\_RS04360:PAS domain S-box protein; protein\_id=WP\_010968771.1  
CD030\_RS17535:winged helix-turn-helix domain-containing tetratricopeptide repeat domain; protein\_id=WP\_010968771.1  
CD030\_RS00140:exbD, TonB system transport protein ExbD; protein\_id=WP\_010968771.1  
CD030\_RS02865:HAMP domain-containing histidine kinase; protein\_id=WP\_010968771.1  
CD030\_RS16895:BCCT family protein transporter; protein\_id=WP\_010968771.1  
CD030\_RS05255:Rrf2 family transcriptional regulator; protein\_id=WP\_010968771.1  
CD028\_RS01640:hypothetical protein; protein\_id=WP\_088195496.1  
CD030\_RS16855:hypothetical protein; protein\_id=WP\_015445609.1  
CD030\_RS16125:LTA synthase family protein; protein\_id=WP\_003534093  
CD030\_RS01435:NADH ubiquinone oxidoreductase; protein\_id=WP\_010968771.1  
CD030\_RS07610:hypothetical protein; protein\_id=WP\_013844967.1  
CD030\_RS07580:purU, formyltetrahydrofolate deformylase; protein\_id=WP\_010968771.1  
CD030\_RS07660:sarcosine oxidase subunit gamma; protein\_id=WP\_010968771.1  
CD030\_RS07655:sarcosine oxidase subunit alpha; protein\_id=WP\_010968771.1  
CD030\_RS04655:flagellar basal body P-ring protein FlgI; protein\_id=WP\_010968771.1  
CD030\_RS10040:translocation/assembly module TamB; protein\_id=WP\_010968771.1  
CD030\_RS16285:cytochrome c1; protein\_id=WP\_010969491.1  
CD030\_RS11905:electron transfer flavoprotein subunit beta/FixA family protein; protein\_id=WP\_010969491.1  
CD030\_RS16025:OmpA family protein; protein\_id=WP\_041170153.1  
CD030\_RS06705:GIY-YIG nuclease family protein; protein\_id=WP\_010969491.1  
CD030\_RS17140:molybdopterine molybdoxotransferase MoeA; protein\_id=WP\_010969491.1  
CD030\_RS02085:pdxA, 4-hydroxythreonine-4-phosphate dehydrogenase; protein\_id=WP\_010969491.1  
CD030\_RS05200:hybrid sensor histidine kinase/response regulator; protein\_id=WP\_010969491.1  
CD030\_RS16380:recA, recombinase RecA; protein\_id=WP\_010969478.1  
CD030\_RS02735:PAS-domain containing protein; protein\_id=WP\_013844967.1  
CD030\_RS12270:glutamine synthetase family protein; protein\_id=WP\_013844967.1

psyma



latd  
dnf3  
hcl  
sunn4  
WT  
dnf6  
dnf1  
nad1  
dnf1  
dnf2  
dnf5  
rdh1  
sunn1  
dnf4  
dnf2  
dnf7  
ipd3

CDO30\_RS23155:MFS transporter; protein\_id=WP\_010968029.1

CDO30\_RS23125:SDR family oxidoreductase (pseudogene)

CDO30\_RS23065:SGNH/GDSL hydrolase family protein; protein\_id=WP\_010968029.1

CDO30\_RS22325:hypothetical protein; protein\_id=WP\_041170015.1

CDO30\_RS21460:malonyl-CoA synthase; protein\_id=WP\_010967081.1

CDO30\_RS18080:fixL, oxygen sensor histidine kinase FixL; protein\_id=WP\_010967081.1

CDO30\_RS22055:class I SAM-dependent methyltransferase; protein\_id=WP\_010967081.1

CDO30\_RS22005:amidase; protein\_id=WP\_010968222.1

CDO30\_RS21460:malonyl-CoA synthase; protein\_id=WP\_010967081.1

CDO30\_RS19190:nodQ, bifunctional sulfate adenylyltransferase/adenylyl-sulfate lyase; protein\_id=WP\_010967081.1

CDO30\_RS19605:stc4, stachydrine N-demethylase reductase subunit Stc4; protein\_id=WP\_010967081.1

CDO30\_RS22335:site-specific integrase; protein\_id=WP\_010968163.1

CDO30\_RS20200:type II toxin-antitoxin system RelE/ParE family toxin; protein\_id=WP\_010967081.1

CDO30\_RS21100:DUF2200 domain-containing protein; protein\_id=WP\_010967081.1

CDO30\_RS21085:class I SAM-dependent methyltransferase; protein\_id=WP\_010967081.1

CDO30\_RS20205:type II toxin-antitoxin system ParD family antitoxin; protein\_id=WP\_010967081.1

CDO30\_RS21175:TRAP transporter small permease; protein\_id=WP\_010967081.1

CDO30\_RS18965:traA, Ti-type conjugative transfer relaxase TraA; protein\_id=WP\_010967081.1

CDO30\_RS21490:S8 family serine peptidase; protein\_id=WP\_010967075.1

CDO30\_RS21375:PhzF family phenazine biosynthesis protein; protein\_id=WP\_010967081.1

CDO30\_RS21370:cold-shock protein; protein\_id=WP\_010967097.1

CDO30\_RS19120:glmS, glutamine-fructose-6-phosphate transaminase (glucosyltransferase); protein\_id=WP\_010967081.1

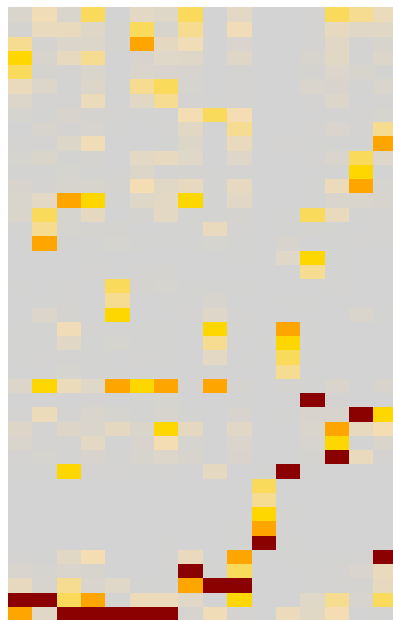
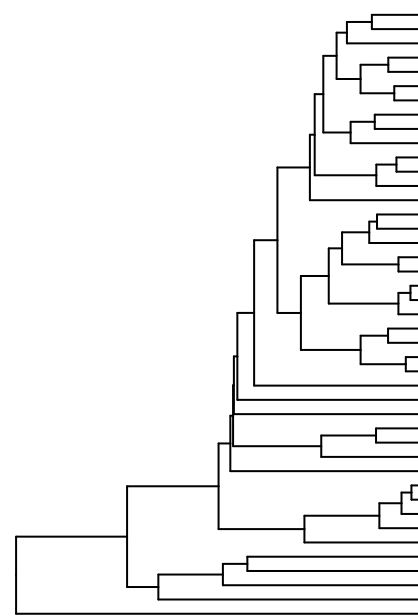
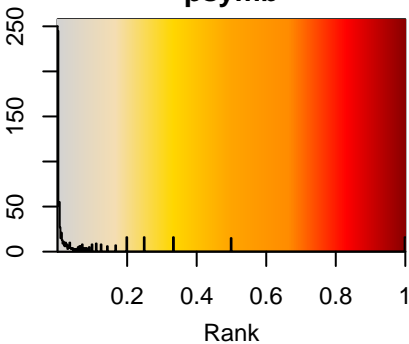
CDO30\_RS24215:CopG family transcriptional regulator (pseudogene)

CDO30\_RS19555:ccoN, cytochrome-c oxidase%2C cbb3-type subunit I; protein\_id=WP\_010967081.1

CDO30\_RS24970:type II toxin-antitoxin system RelE/ParE family toxin; protein\_id=WP\_010968188.1

CDO30\_RS22190:aldo/keto reductase; protein\_id=WP\_010968188.1

psymb



sunn1  
 nad1  
 dnf2  
 dnf1  
 dnf6  
 WT  
 dnf1  
 ipd3  
 latd  
 dnf7  
 hcl  
 dnf3  
 sunn4  
 rdn1  
 dnf4  
 dnf5  
 dnf2

CDO30\_RS32685:four-carbon acid sugar kinase family protein; protein\_id=WP\_010975138.1  
 CDO30\_RS27930:LysR family transcriptional regulator; protein\_id=WP\_010975138.1  
 CDO30\_RS28005:araG, L-arabinose ABC transporter ATP-binding protein; protein\_id=WP\_010975138.1  
 CDO30\_RS28530:ABC transporter ATP-binding protein; protein\_id=WP\_010975138.1  
 CDO30\_RS27355:aspartate aminotransferase family protein; protein\_id=WP\_010975138.1  
 CDO30\_RS31870:hypothetical protein (pseudogene)  
 CDO30\_RS32205:sugar ABC transporter permease; protein\_id=WP\_010975138.1  
 CDO30\_RS28760:ligD, DNA ligase D; protein\_id=WP\_041170090.1  
 CDO30\_RS26680:zinc-binding dehydrogenase; protein\_id=WP\_010975138.1  
 CDO30\_RS32445:hypothetical protein; protein\_id=WP\_088239368.1  
 CDO30\_RS31870:hypothetical protein (pseudogene)  
 CDO30\_RS25985:NAD(P)/FAD-dependent oxidoreductase; protein\_id=WP\_010975138.1  
 CDO30\_RS32015:sugar ABC transporter substrate-binding protein; protein\_id=WP\_010975138.1  
 CDO30\_RS28760:ligD, DNA ligase D; protein\_id=WP\_041170090.1  
 CDO30\_RS28675:hypothetical protein; protein\_id=WP\_010975138.1  
 CDO30\_RS31425:xdhA, xanthine dehydrogenase small subunit; protein\_id=WP\_010975138.1  
 CDO30\_RS26675:NAD-dependent epimerase/dehydratase family protein; protein\_id=WP\_010975138.1  
 CDO30\_RS29535:ABC transporter substrate-binding protein; protein\_id=WP\_010975138.1  
 CDO30\_RS31845:glycoside hydrolase family 19 protein (pseudogene)  
 CDO30\_RS28095:flavodoxin family protein; protein\_id=WP\_010975138.1  
 CDO30\_RS27870:Lacl family DNA-binding transcriptional regulator; protein\_id=WP\_010975138.1  
 CDO30\_RS27095:sulfatase (pseudogene)  
 CDO30\_RS34595:helix-turn-helix transcriptional regulator (pseudogene)  
 CDO30\_RS27435:four-carbon acid sugar kinase family protein; protein\_id=WP\_010975138.1  
 CDO30\_RS27440:xanthine dehydrogenase family protein molybdopterin-binding protein; protein\_id=WP\_010975138.1  
 CDO30\_RS27435:four-carbon acid sugar kinase family protein; protein\_id=WP\_010975138.1  
 CDO30\_RS27440:xanthine dehydrogenase family protein molybdopterin-binding protein; protein\_id=WP\_010975138.1  
 CDO30\_RS26745:dihydropicolinate synthase family protein; protein\_id=WP\_010975138.1  
 CDO30\_RS28095:flavodoxin family protein; protein\_id=WP\_010975138.1  
 CDO30\_RS30150:glycosyltransferase; protein\_id=WP\_010975138.1  
 CDO30\_RS25485:pyridoxamine 5'-phosphate oxidase family protein; protein\_id=WP\_010975138.1  
 CDO30\_RS31555:MASE1 domain-containing protein; protein\_id=WP\_010975138.1  
 CDO30\_RS32910:LysR family transcriptional regulator; protein\_id=WP\_010975138.1  
 CDO30\_RS27440:xanthine dehydrogenase family protein molybdopterin-binding protein; protein\_id=WP\_010975138.1  
 CDO30\_RS27015:ABC transporter permease; protein\_id=WP\_010975138.1  
 CDO30\_RS29305:amino acid ABC transporter ATP-binding protein; protein\_id=WP\_010975138.1  
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 CDO30\_RS29490:mechanosensitive ion channel family protein; protein\_id=WP\_010975138.1  
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 CDO30\_RS27310:ABC transporter ATP-binding protein; protein\_id=WP\_010975138.1  
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 CDO30\_RS28530:ABC transporter ATP-binding protein; protein\_id=WP\_010975138.1  
 CDO30\_RS27255:hypothetical protein; protein\_id=WP\_010975138.1