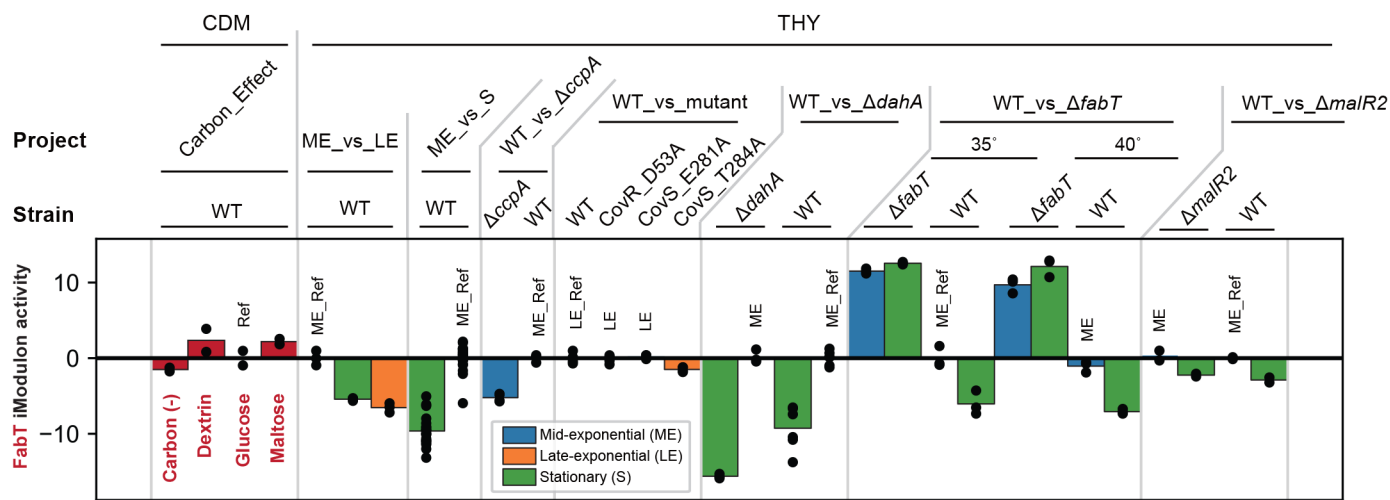
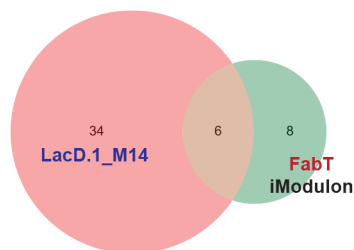
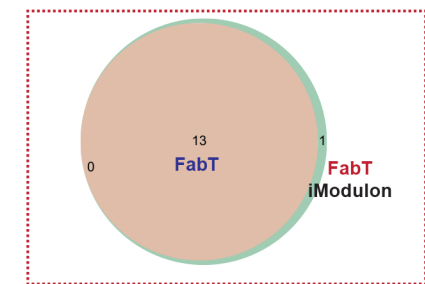
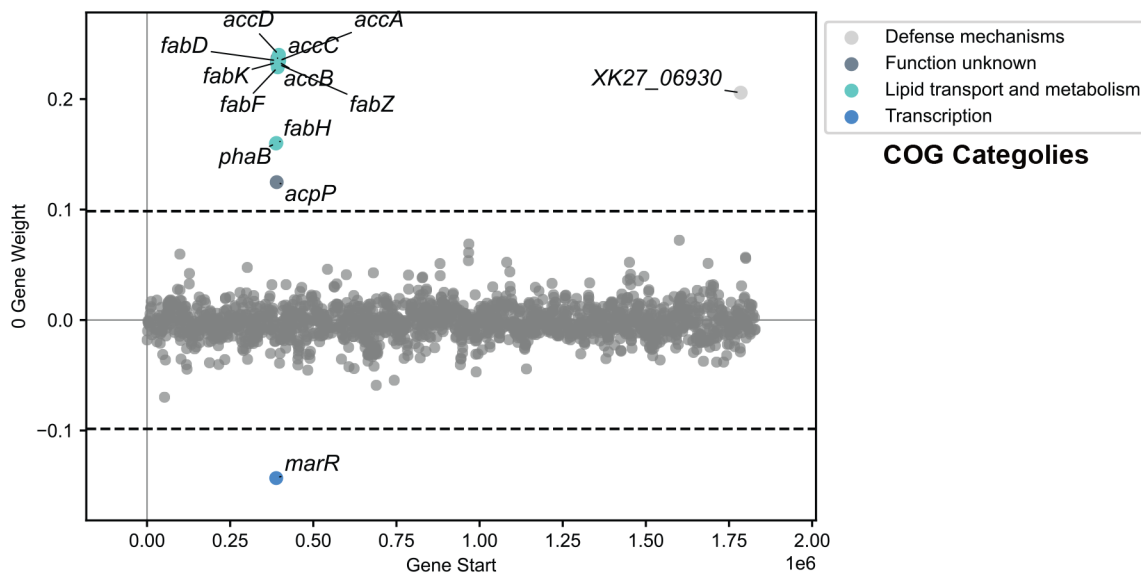


FabT iModulon

Significantly overlapped TRN: FabT > LacD.1_M14

Biological function: Fatty acid biosynthesis

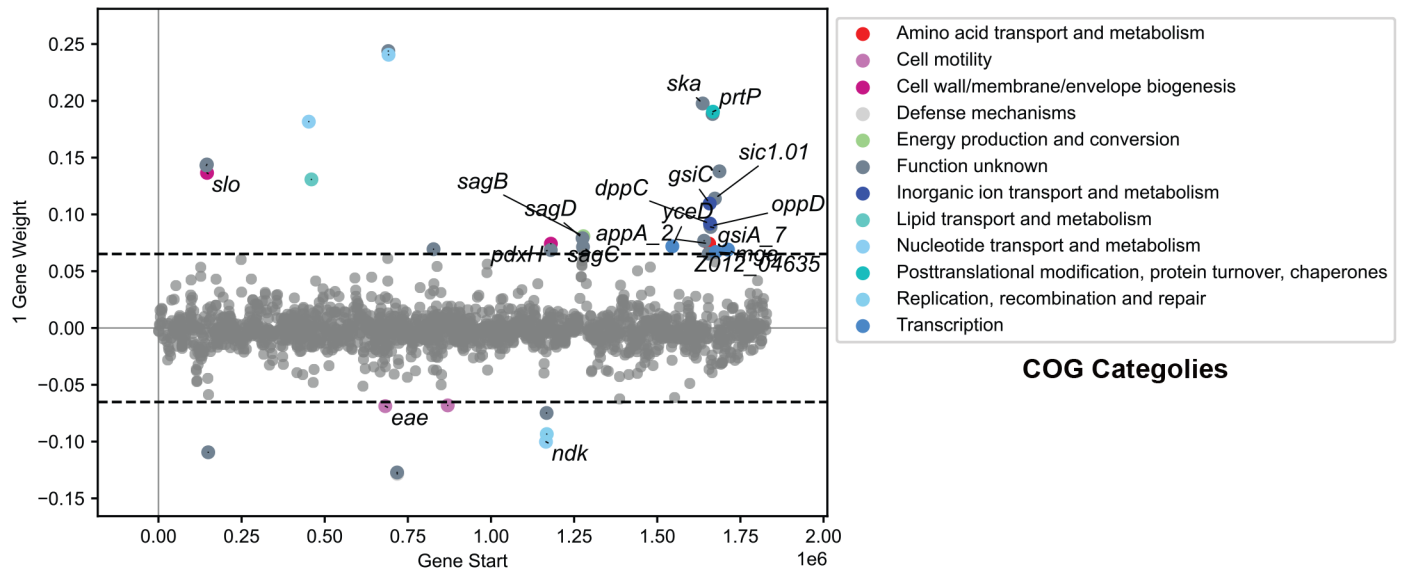


CovR-1 iModulon

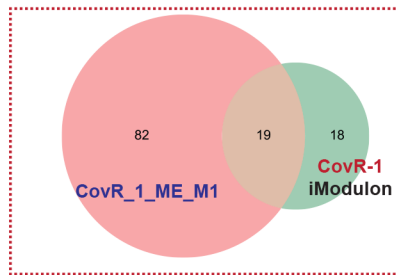
Significantly overlapped TRN:

CovR_1_ME_M1 > Mga_low_Glucose_M1 > CovR_CcpA_M1 > Rgg_exponential_M49 > CodY_M49

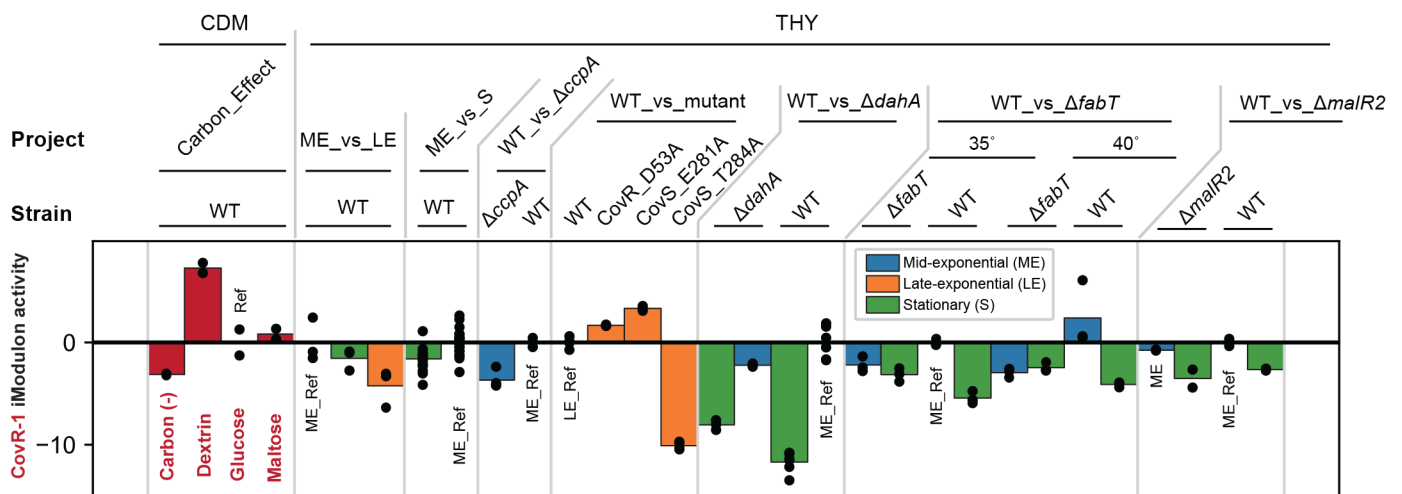
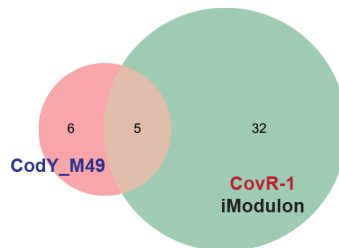
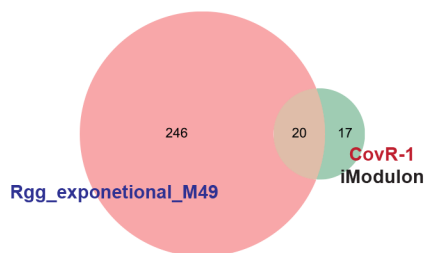
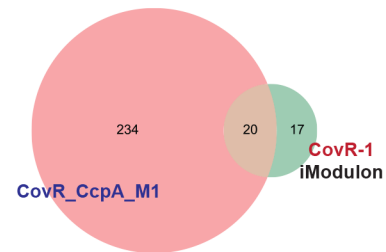
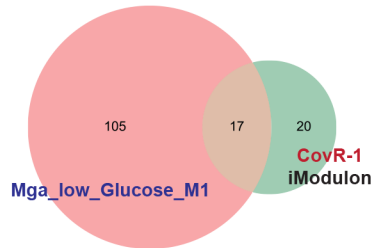
Biological function: Pathogenesis and the peptide transport



COG Categories



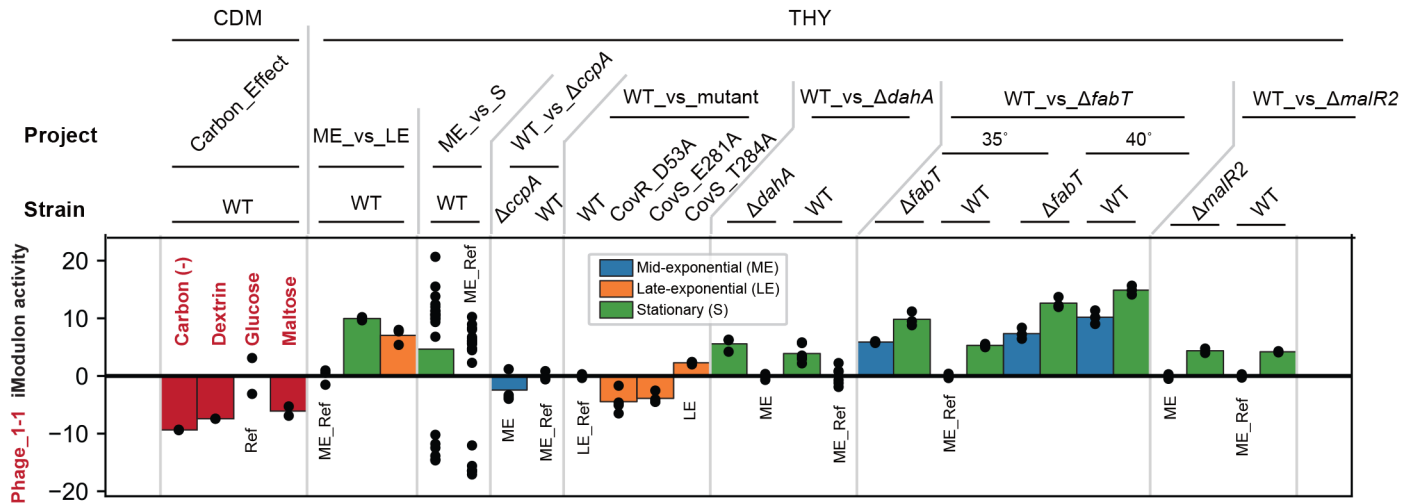
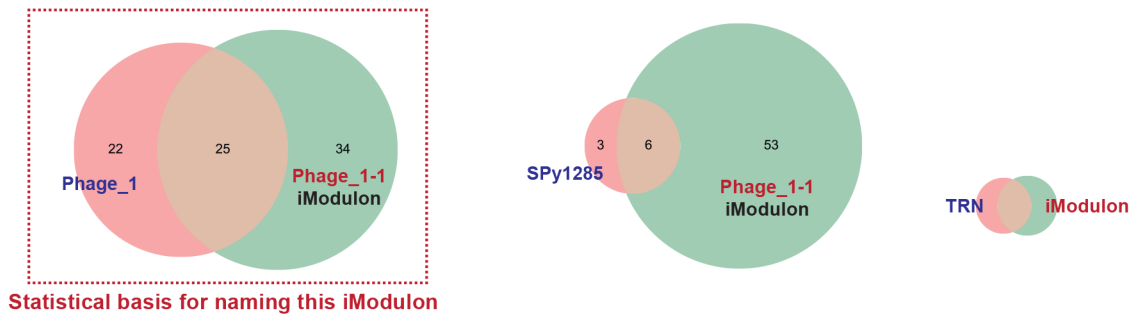
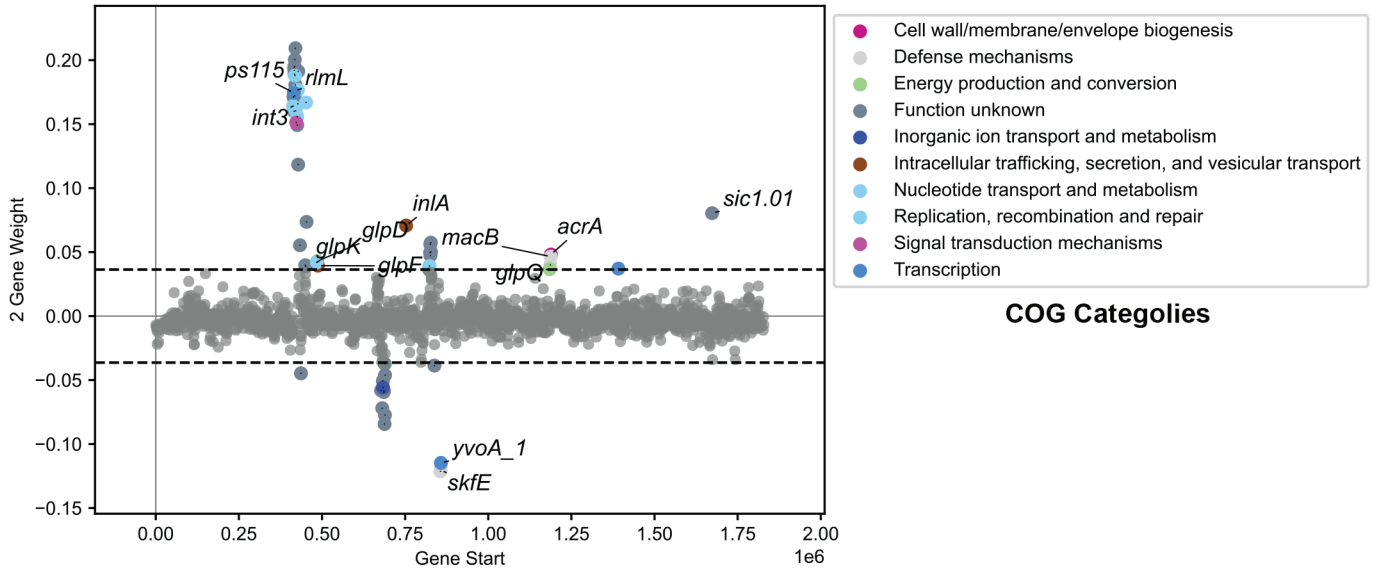
Statistical basis for naming this iModulon



Phage_1-1 iModulon

Significantly overlapped TRN: Phage_1 > SPy1285

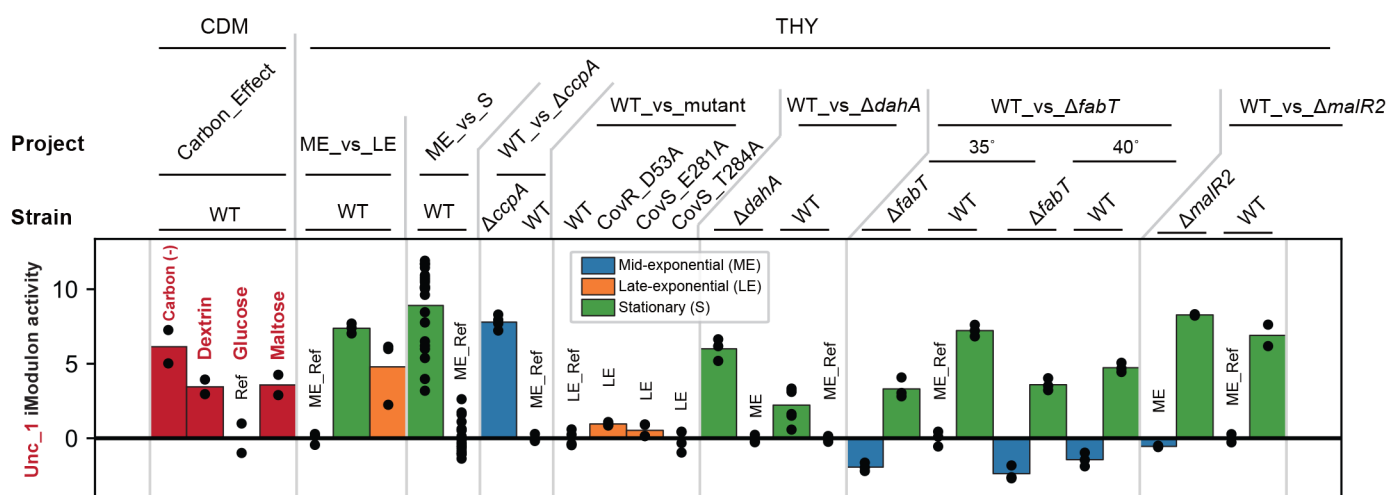
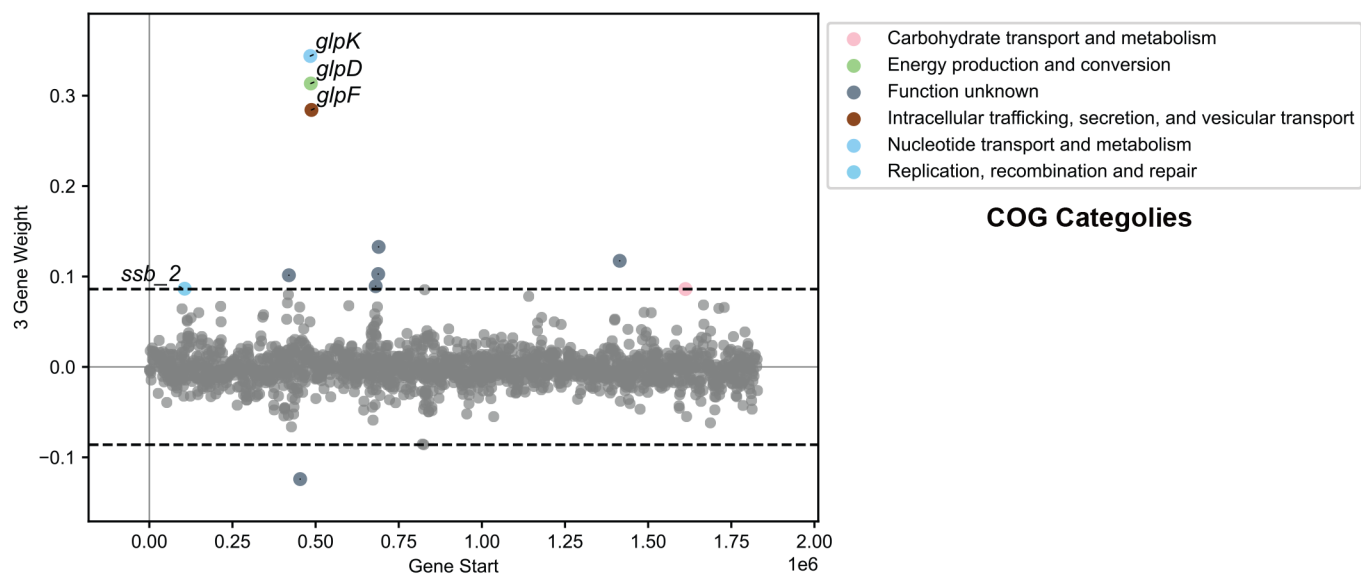
Biological function: Prophages



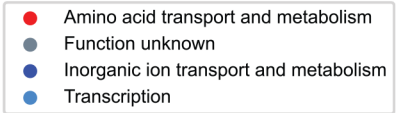
Unc_1 iModulon

Significantly overlapped TRN: ---

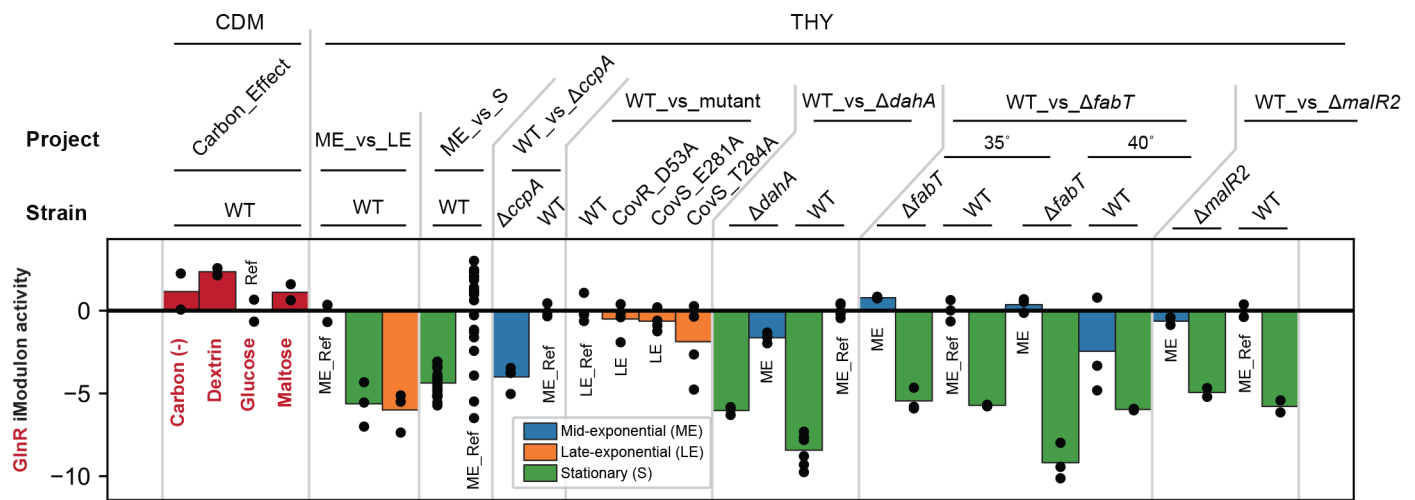
Biological function: Carbon use



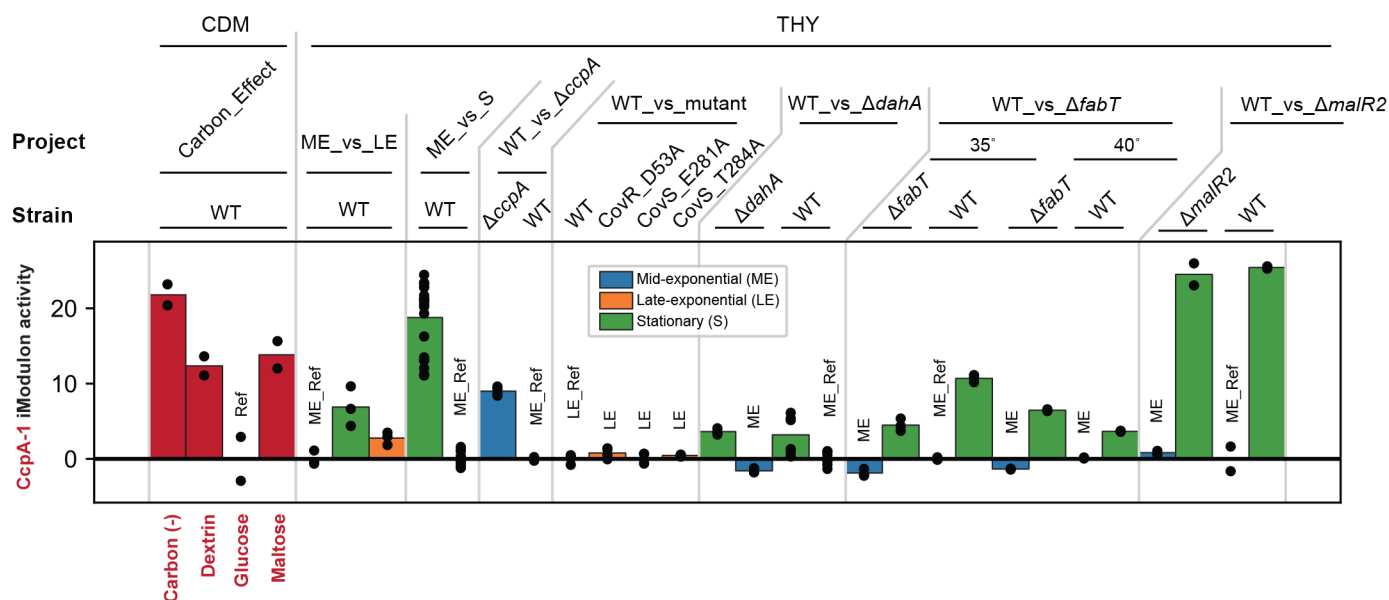
Biological function: Amino acid use



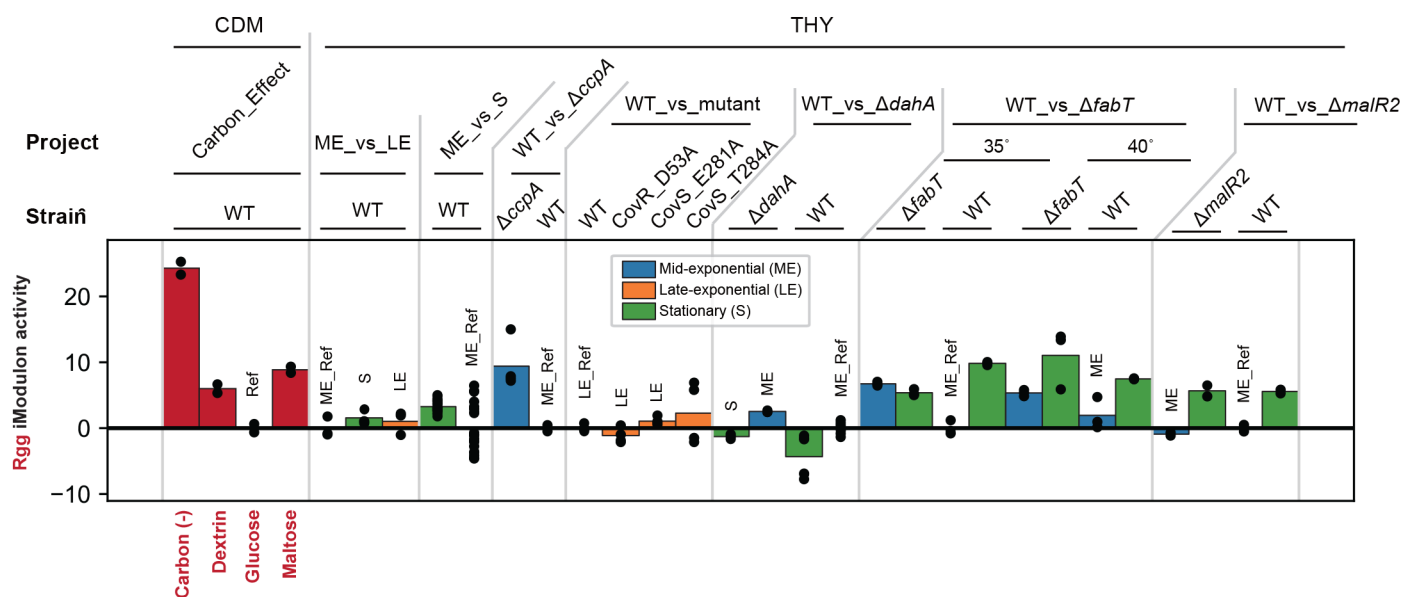
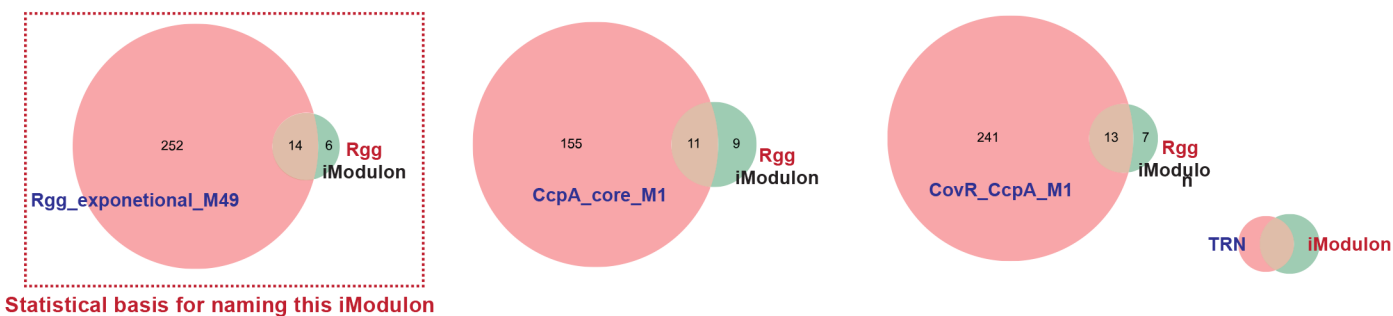
Statistical basis for naming this iModulon



Biological function: Amino acid use



Significantly overlapped TRN: Rgg_exponential_M49 > CcpA_core_M1 > CovR_CcpA_M1
Biological function: Multi-purpose metabolism



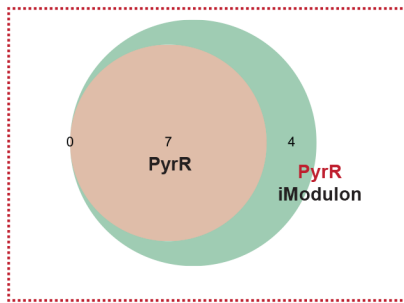
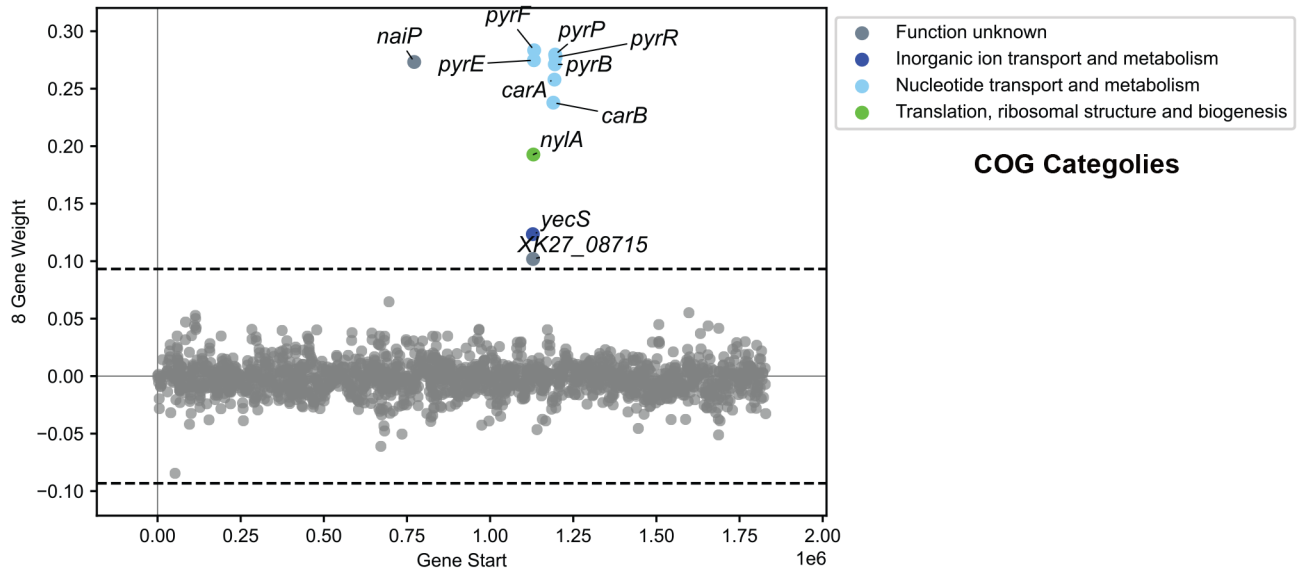
Biological function: Prophages



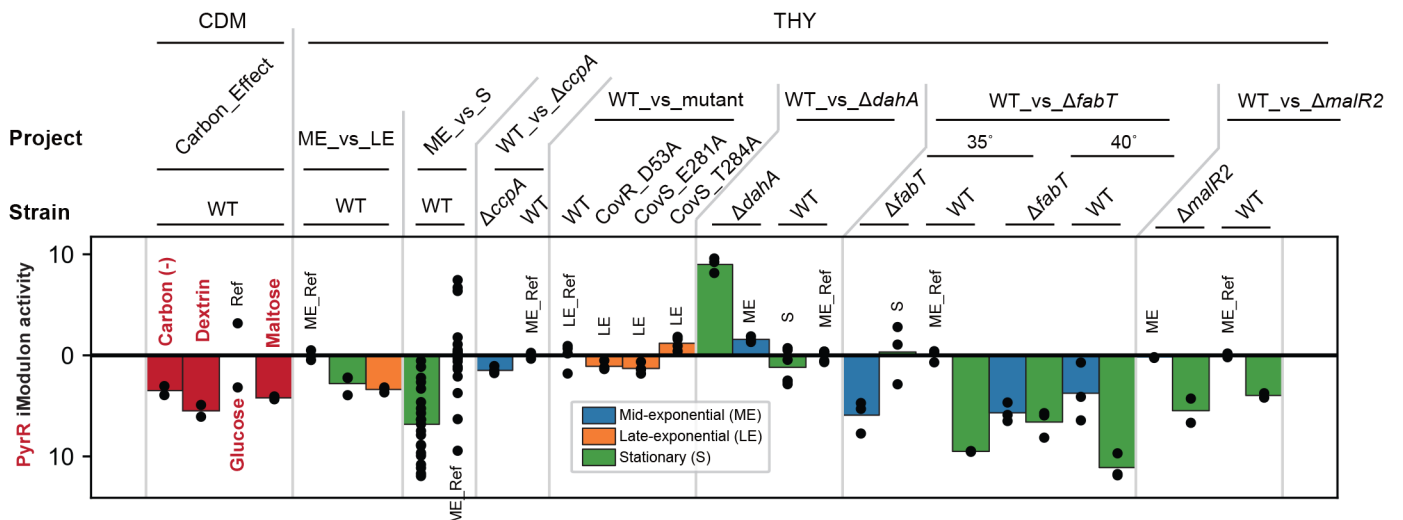
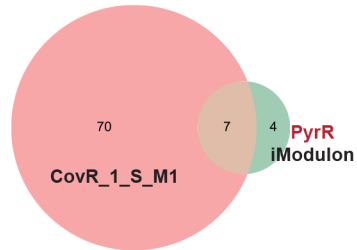
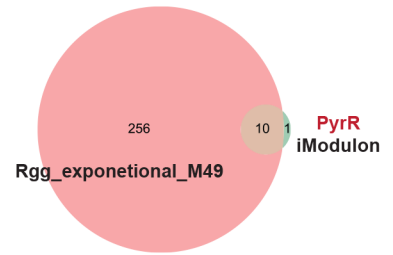
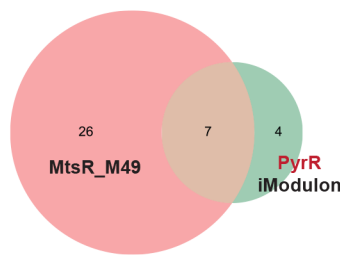
PyrR iModulon

Significantly overlapped TRN: PyrR > MtsR_M49 > Rgg_exponential_M49 > CovR_1_S_M1

Biological function: Nucleotide use



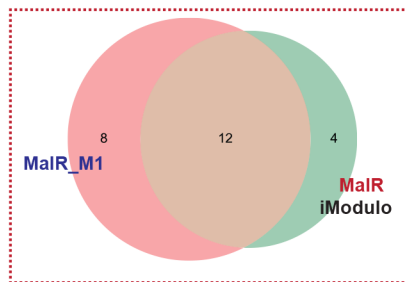
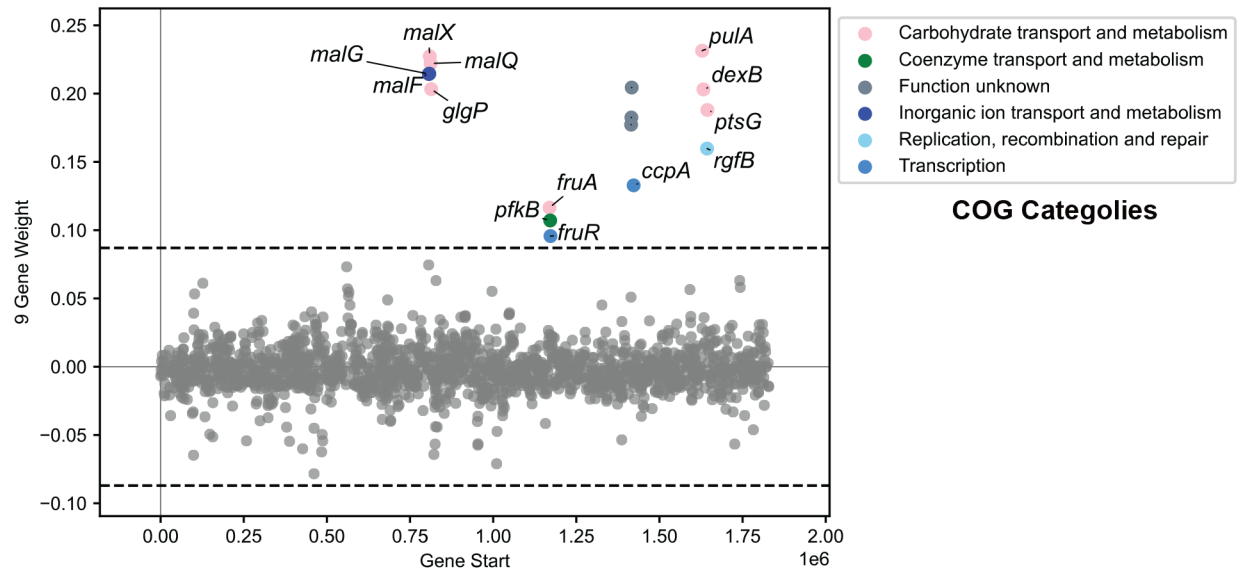
Statistical basis for naming this iModulon



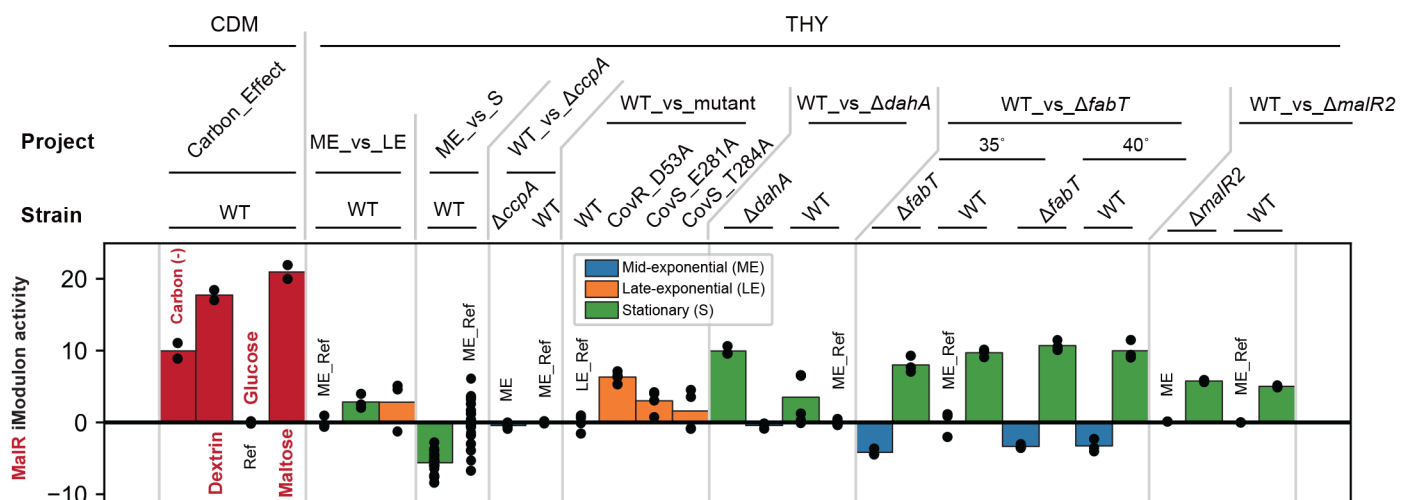
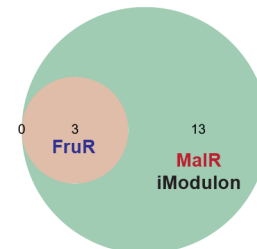
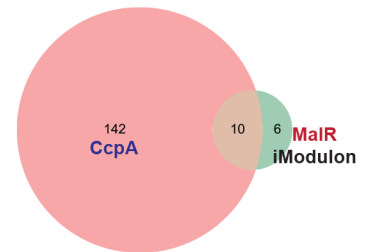
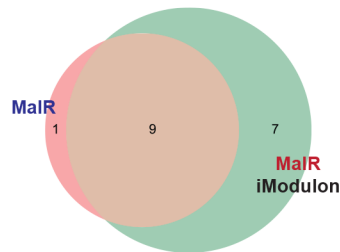
MaIR iModulon

Significantly overlapped TRN: MaIR_M1 > MaIR > CcpA > FruR

Biological function: Carbon use



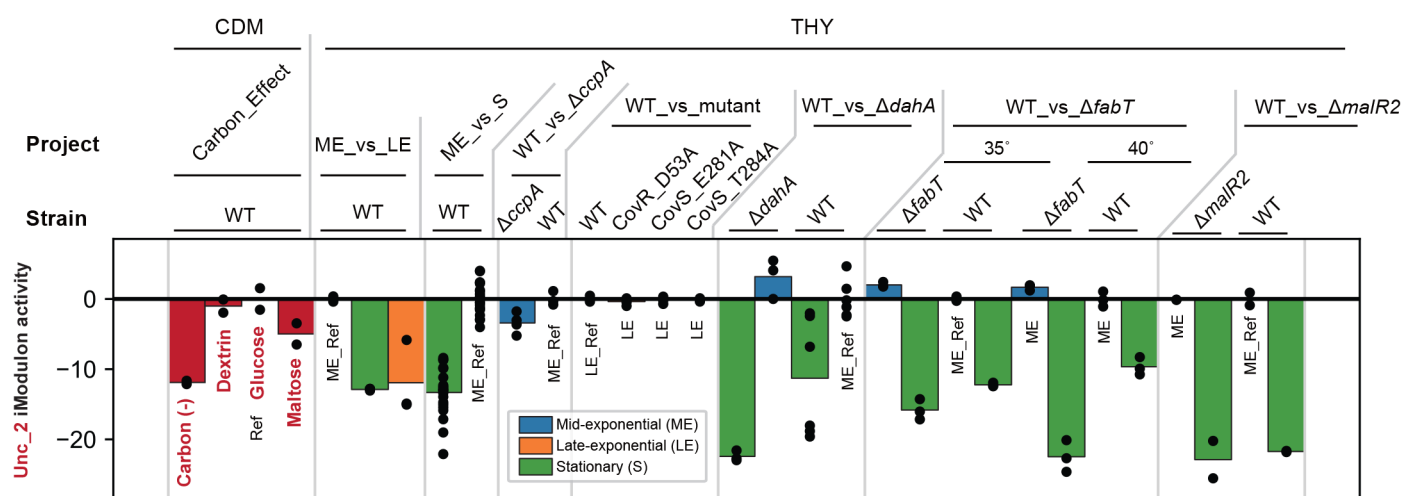
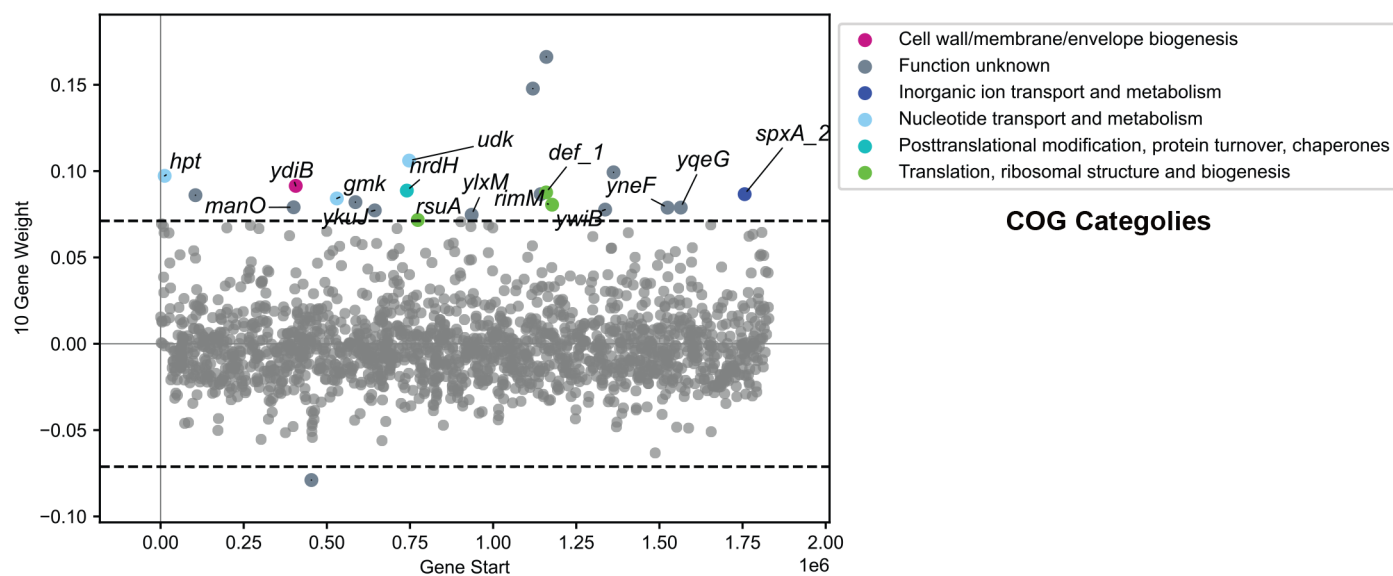
Statistical basis for naming this iModulon



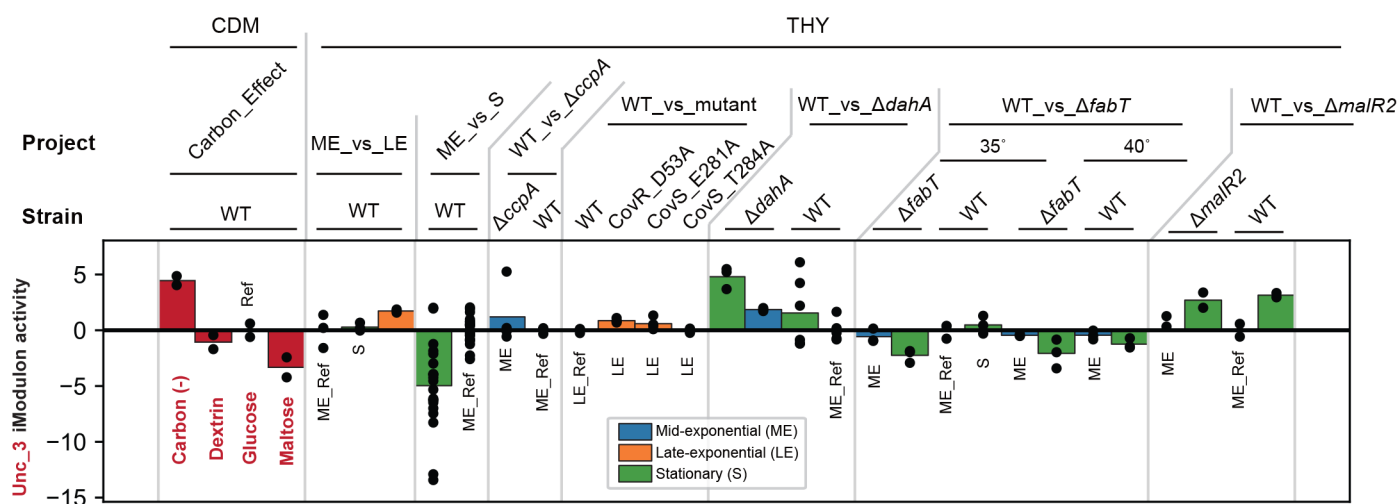
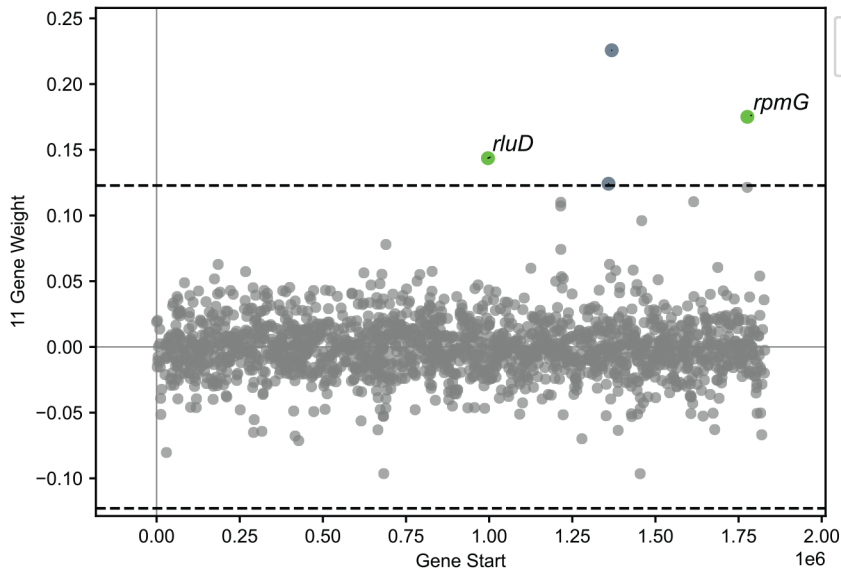
Unc_2 iModulon

Significantly overlapped TRN: ---

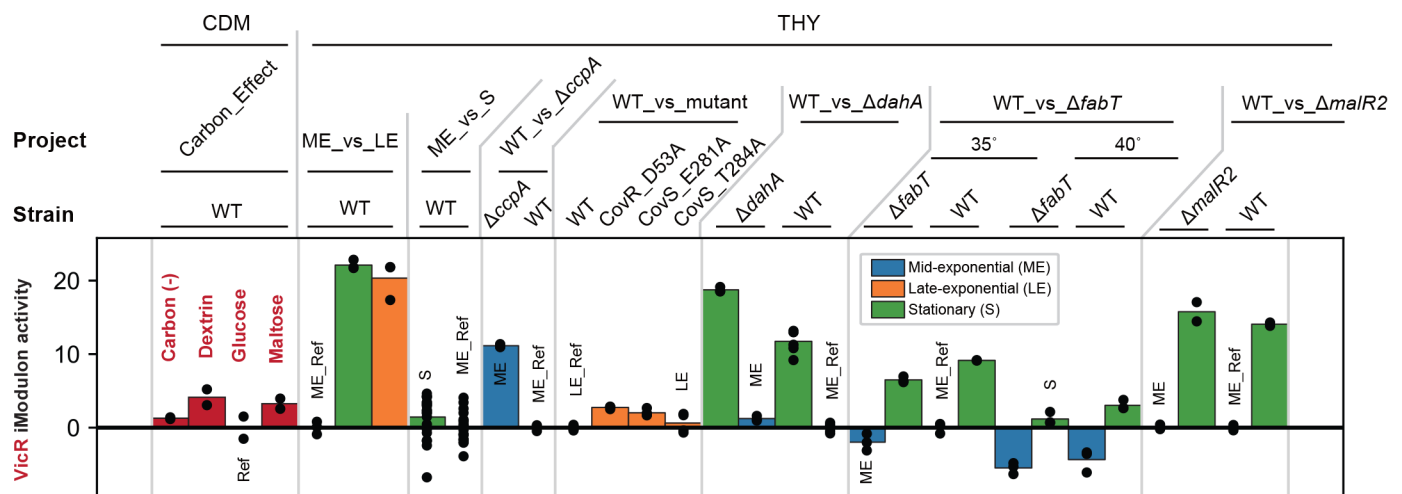
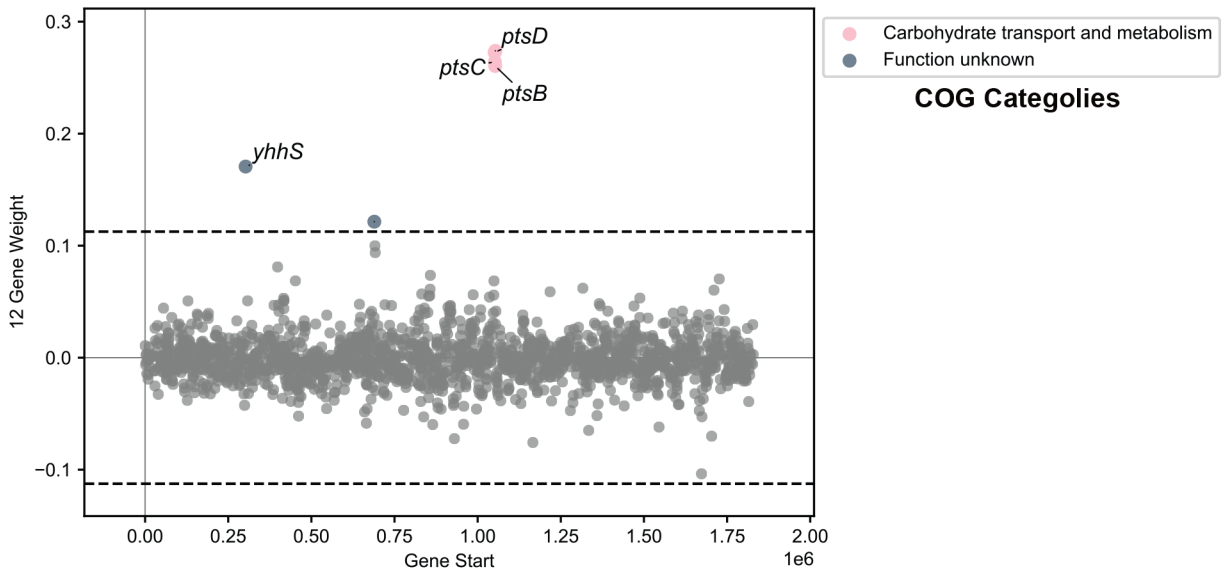
Biological function: ---



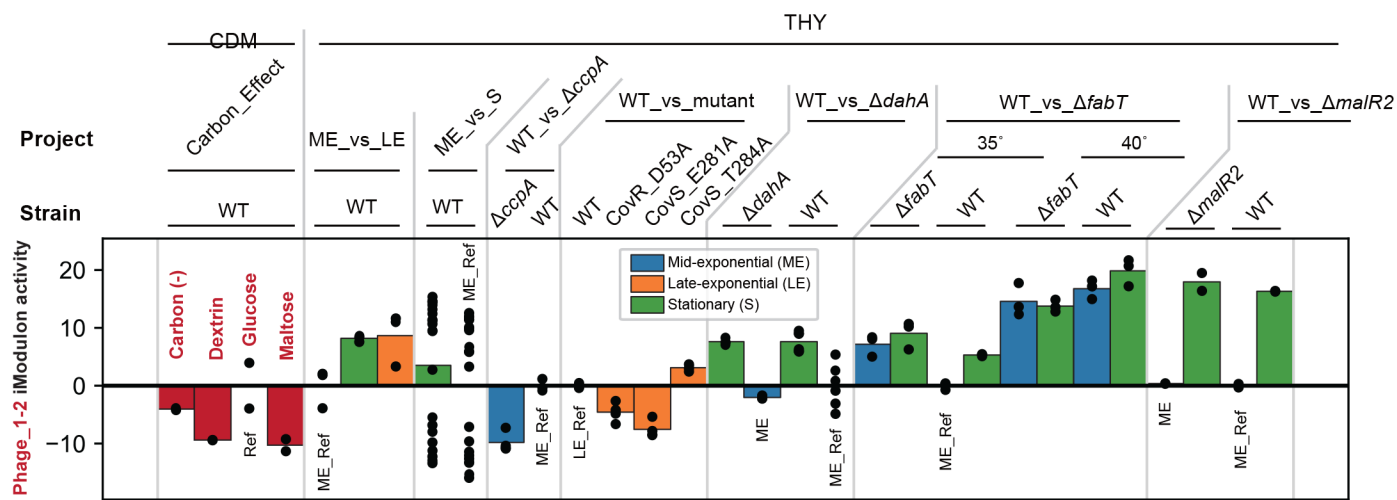
Biological function: Translation



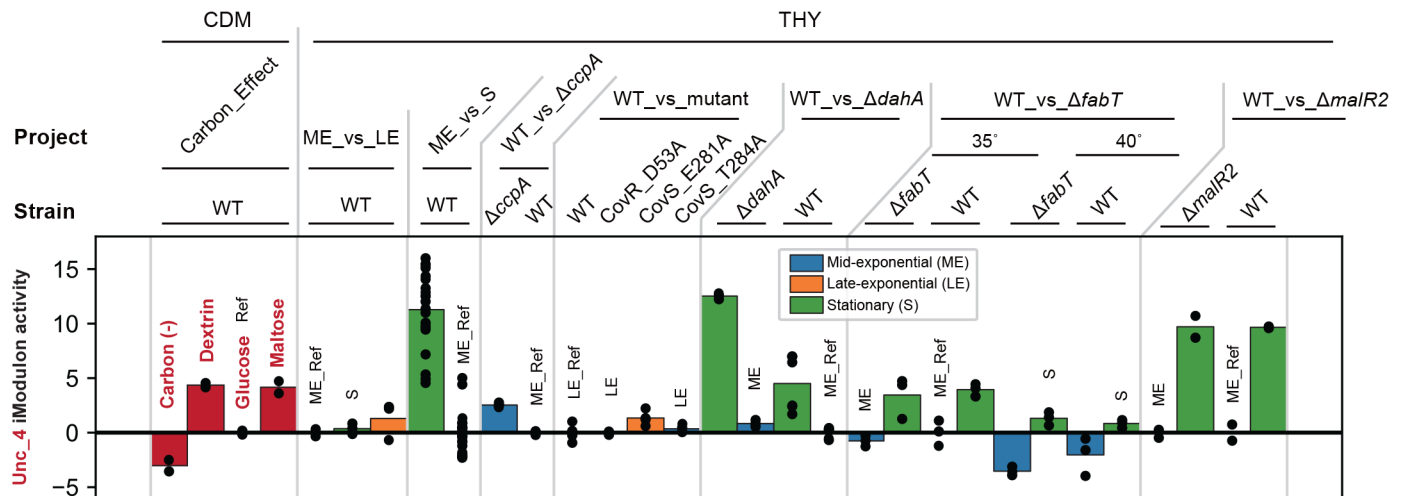
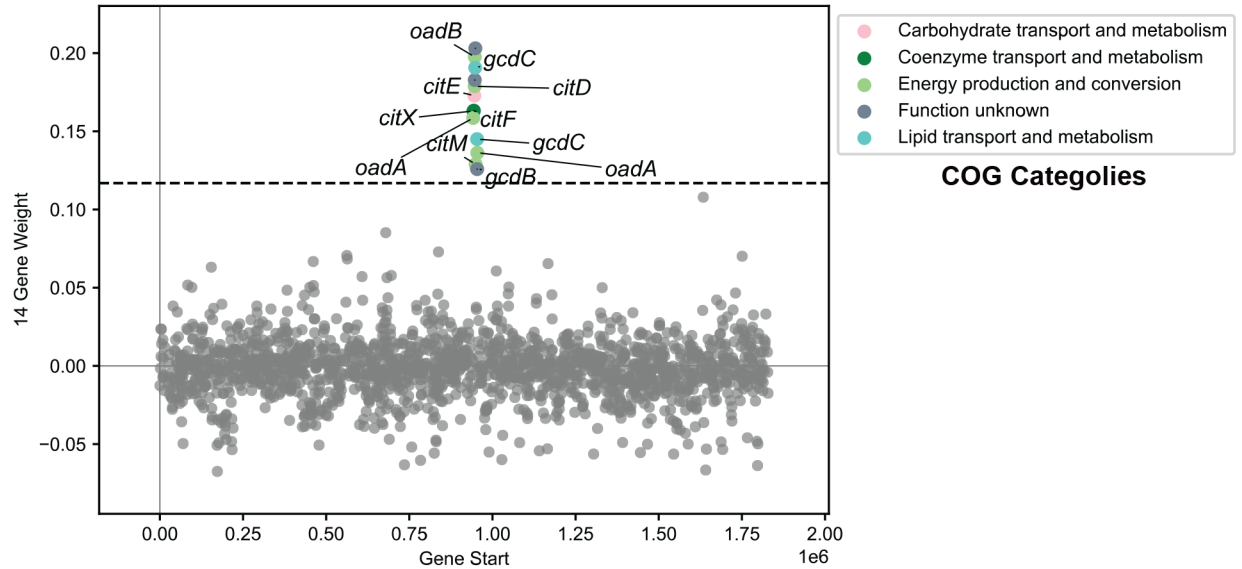
Biological function: Carbon use



Biological function: Prophages



Unc_4 iModulon
Significantly overlapped TRN: ---
Biological function: Multi-purpose metabolism



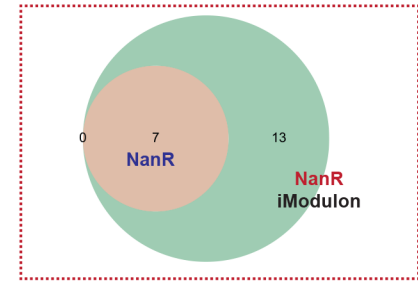
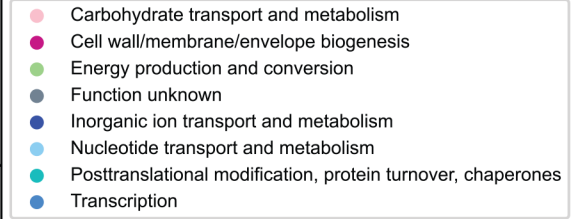
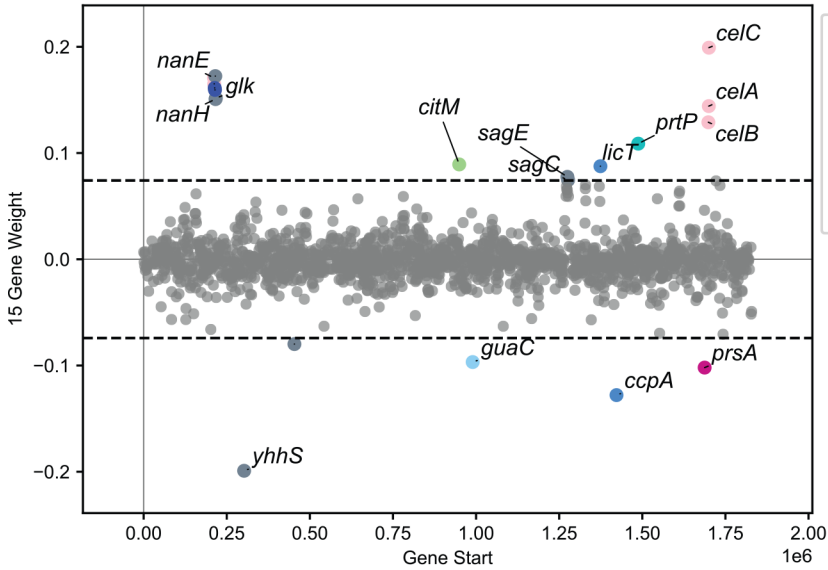
NanR iModulon

Significantly overlapped TRN:

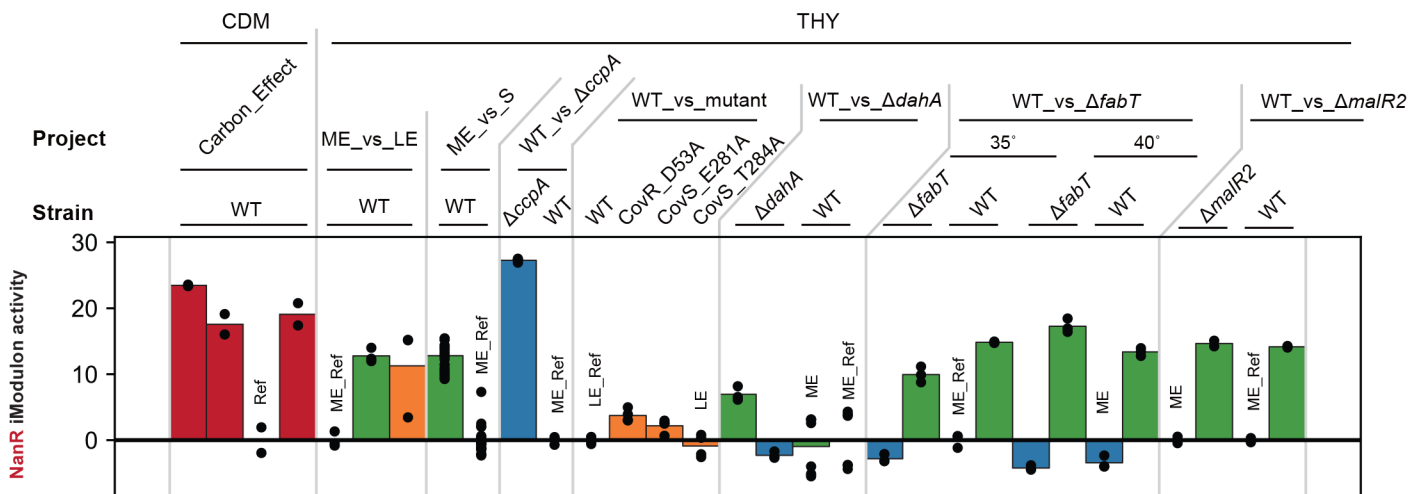
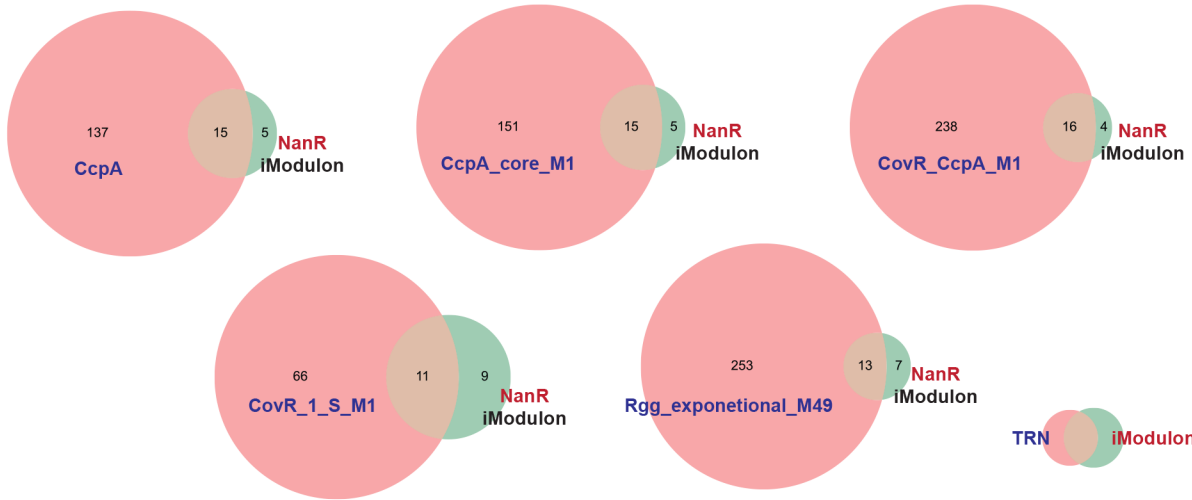
NanR > CcpA > CcpA_core_M1 > CovR_CcpA_M1 > CovR_1_S_M1 > Rgg_exponential_M49

Biological function: Carbon use

COG Categories



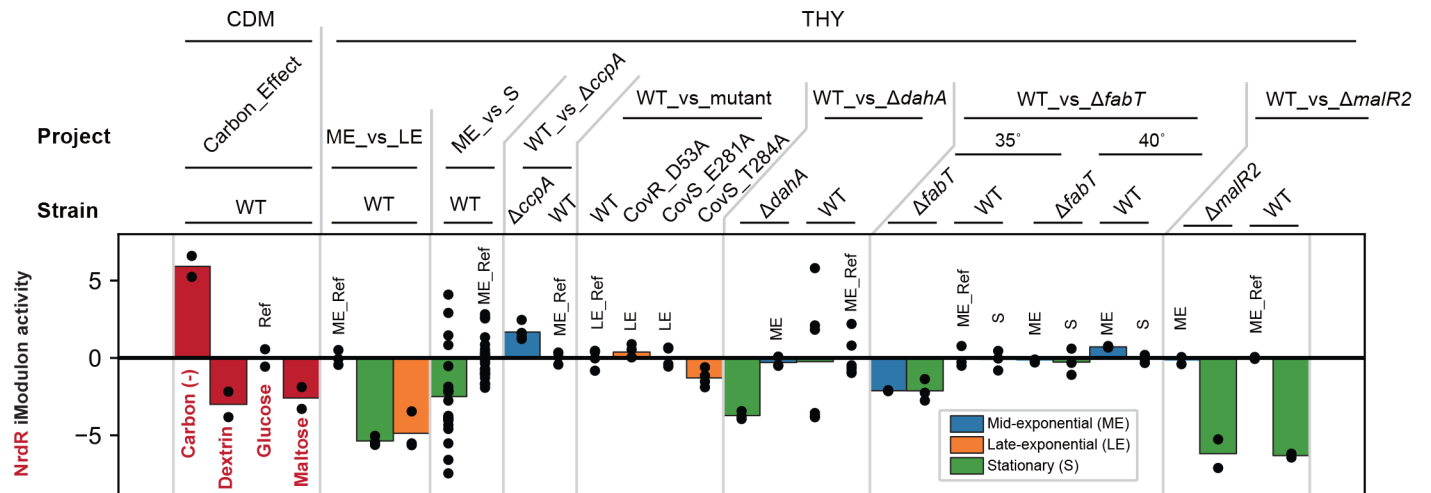
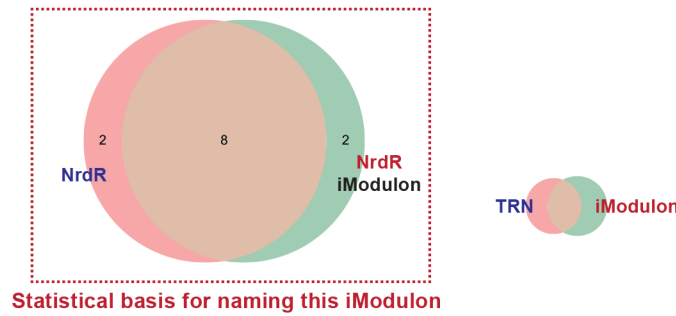
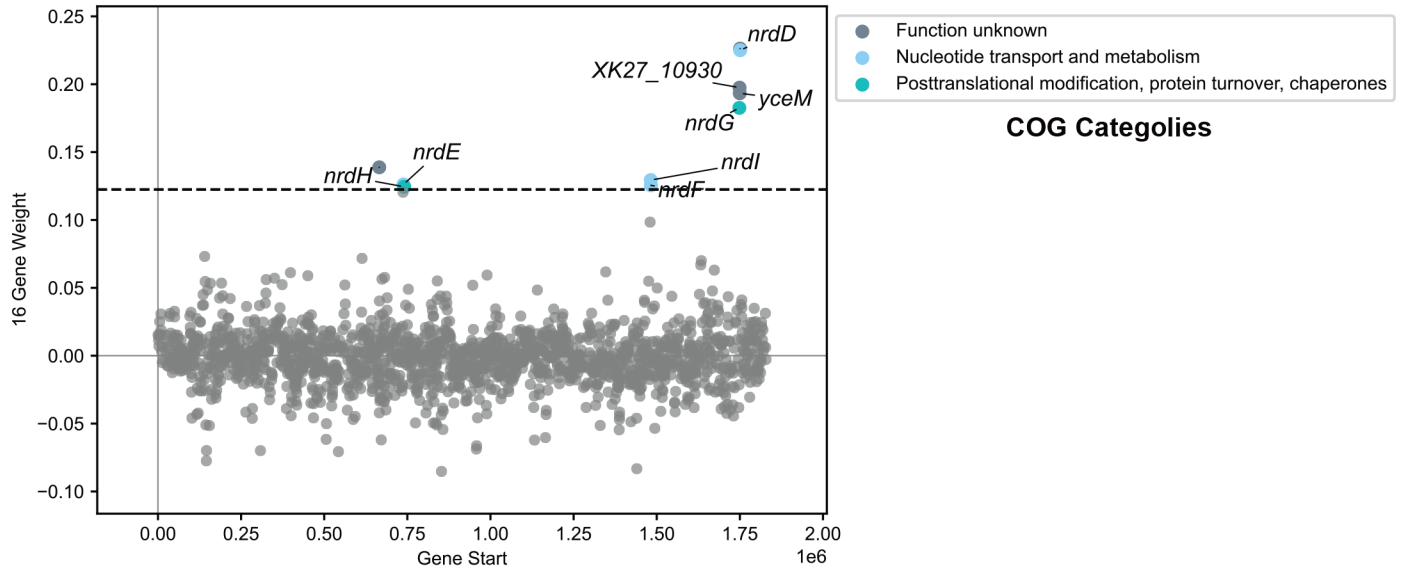
Statistical basis for naming this iModulon



NrdR iModulon

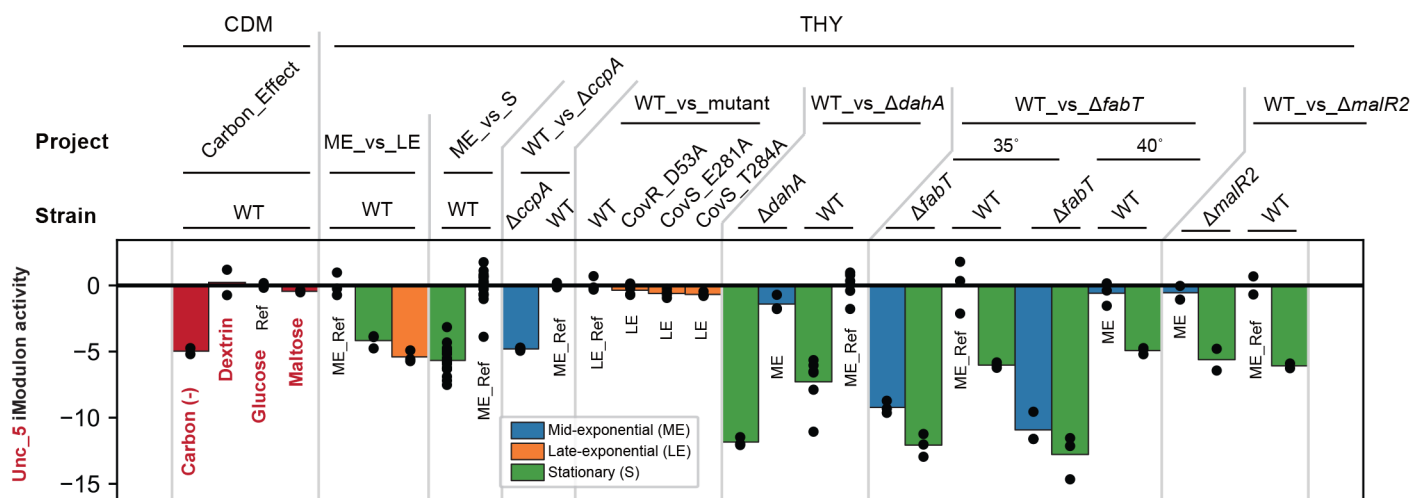
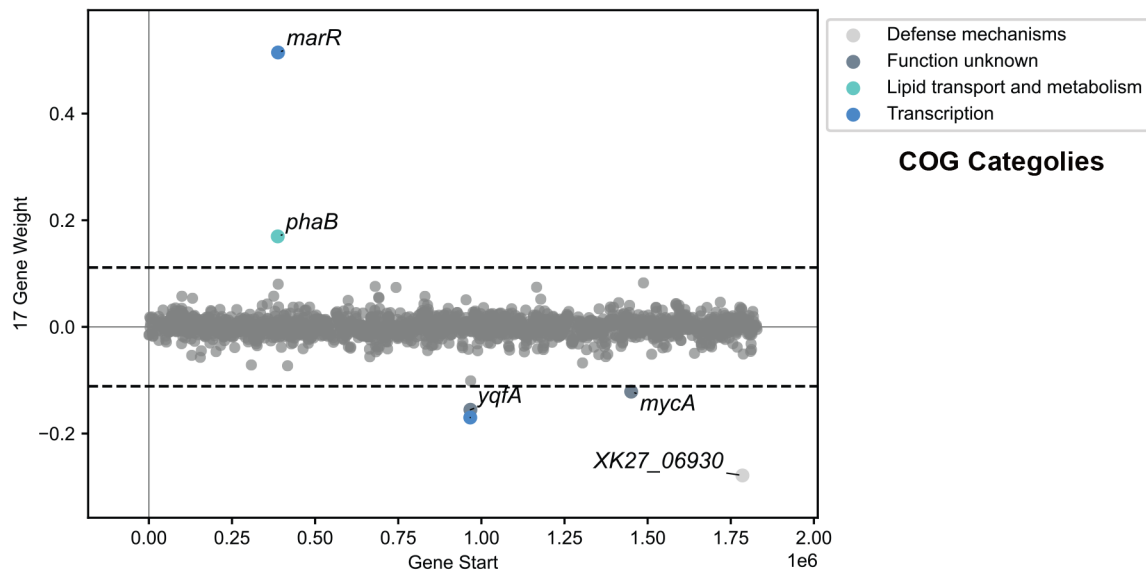
Significantly overlapped TRN: NrdR

Biological function: Carbon use



Unc_5 iModulon

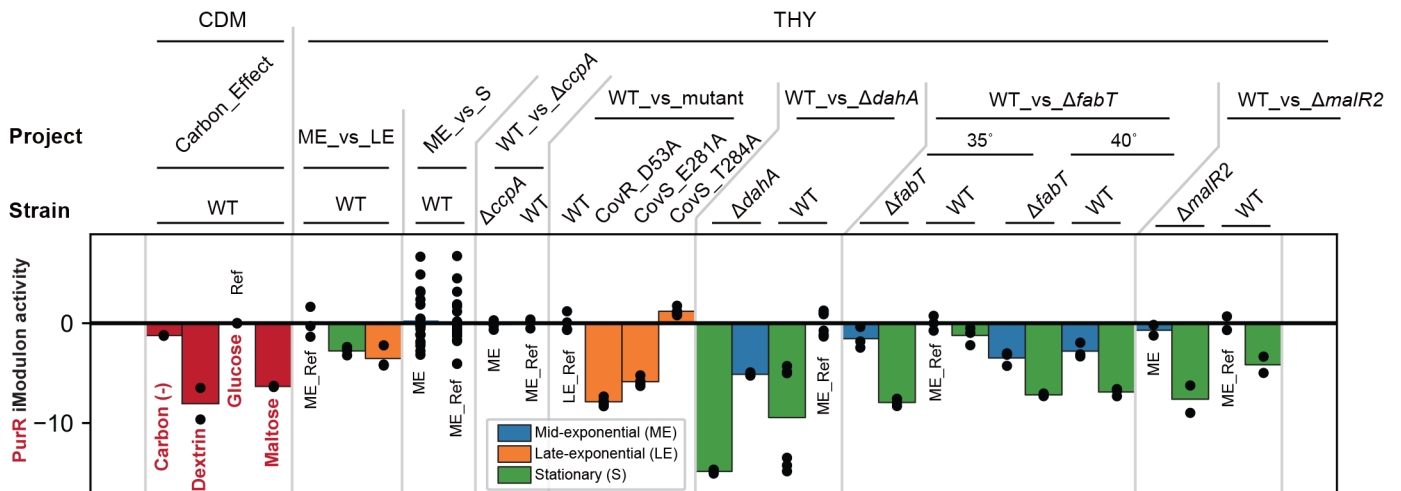
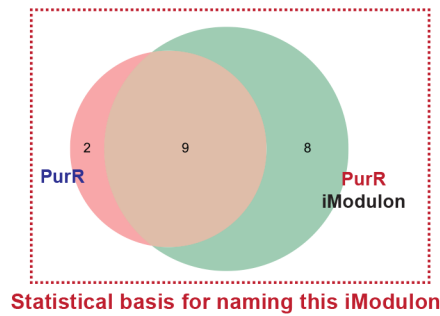
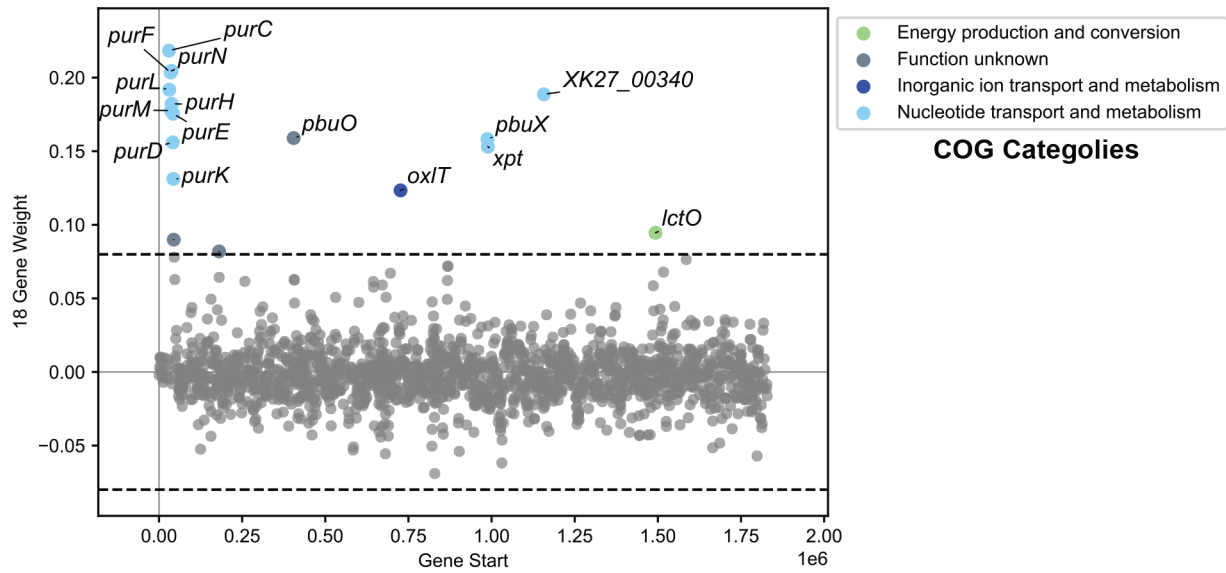
Significantly overlapped TRN: ---
Biological function: ---



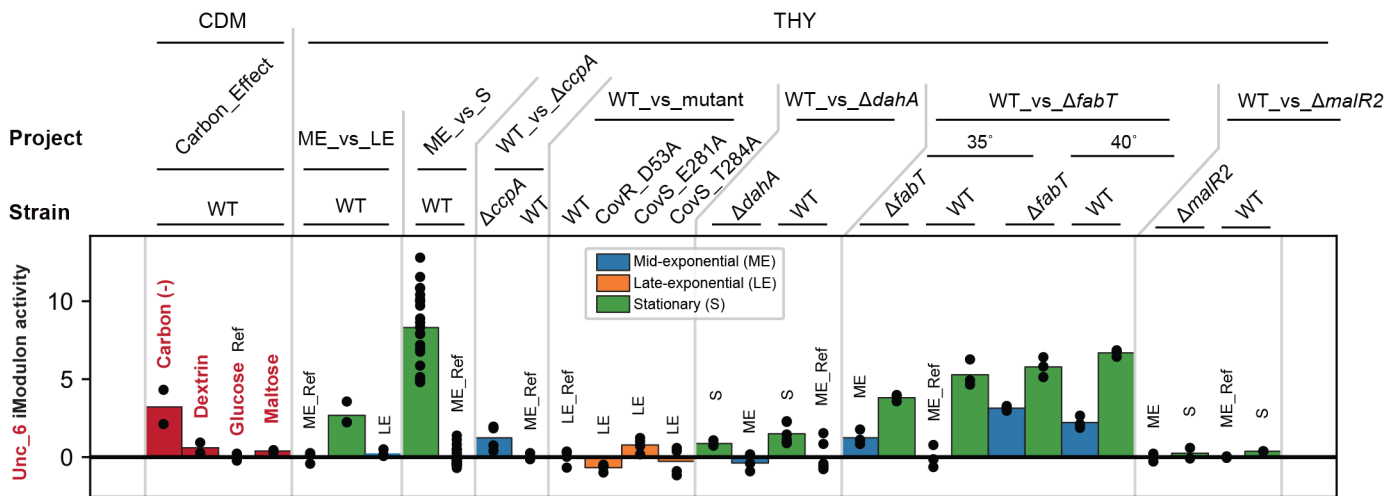
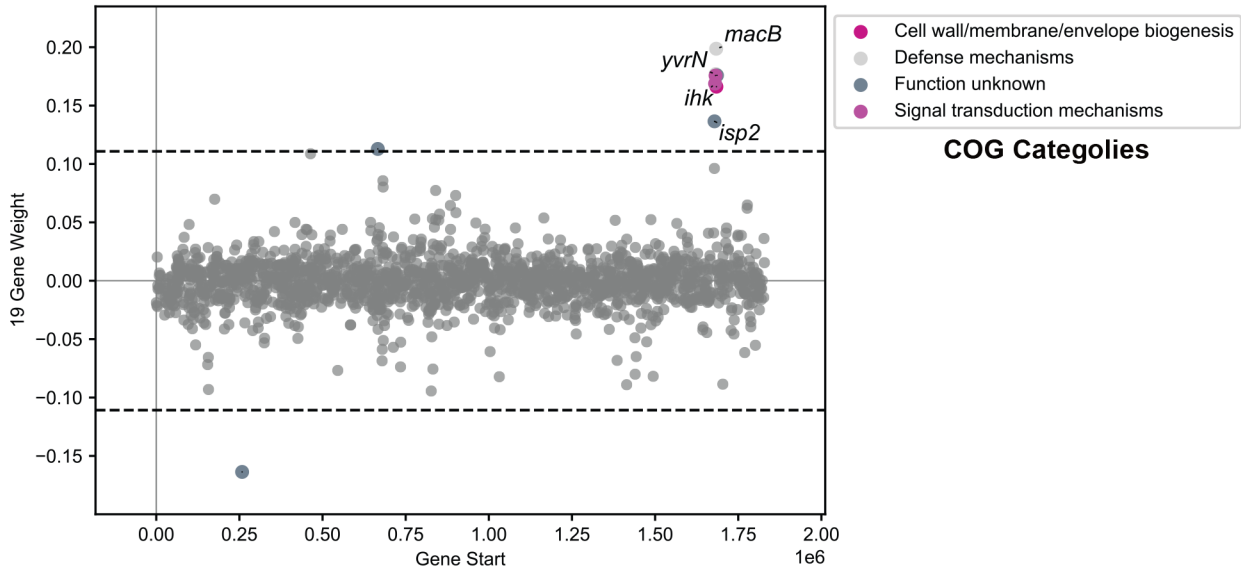
PurR iModulon

Significantly overlapped TRN: PurR

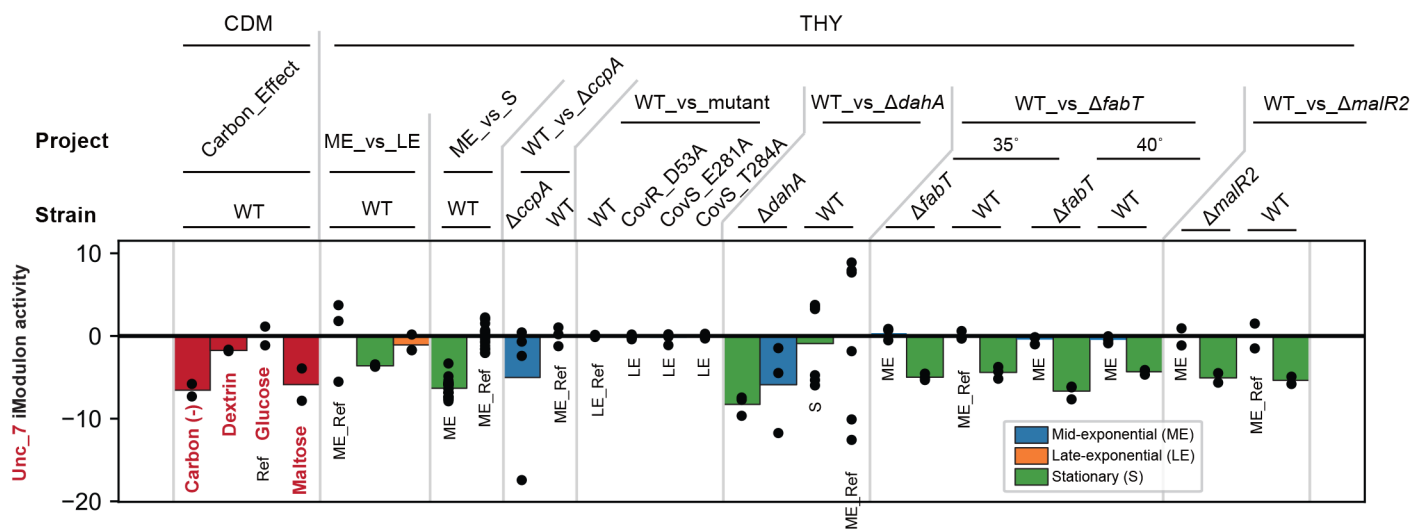
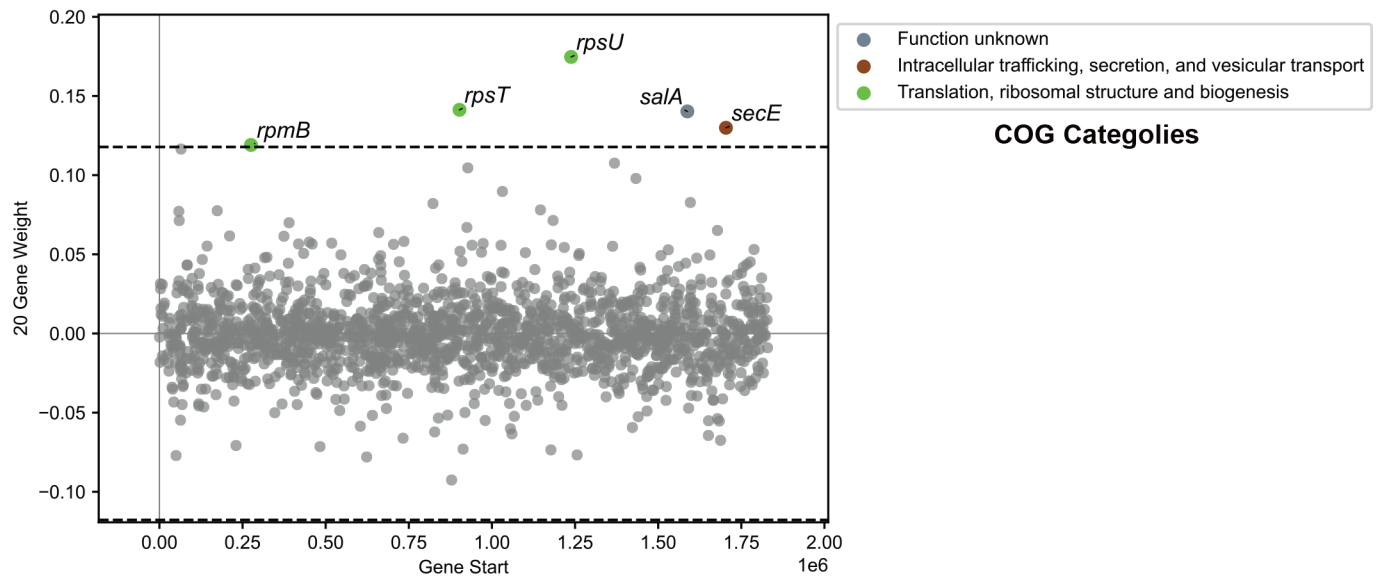
Biological function: Nucleotides



Unc_6 iModulon
Significantly overlapped TRN: ---
Biological function: General stress



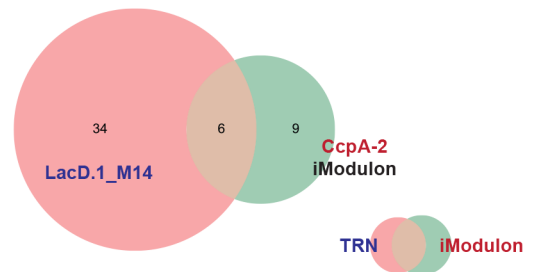
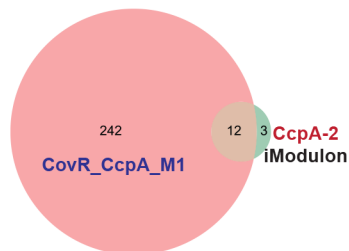
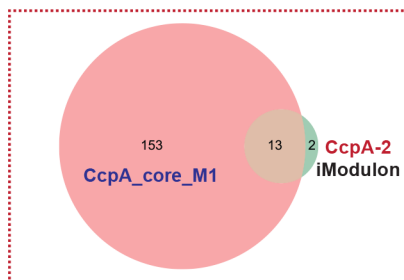
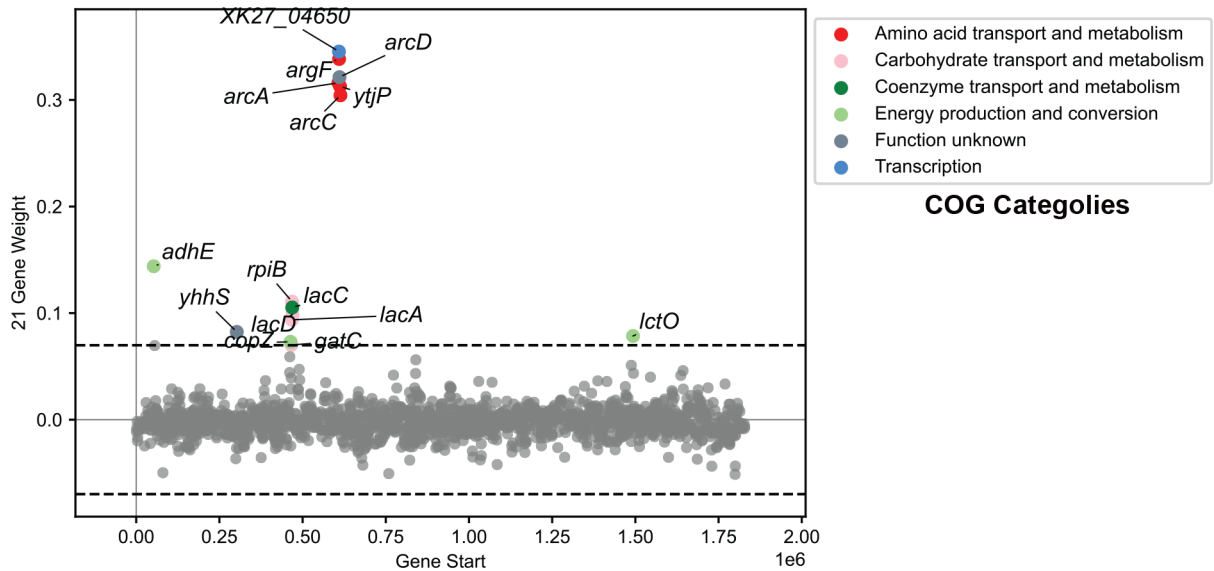
Unc_7 iModulon
Significantly overlapped TRN: ---
Biological function: Translation



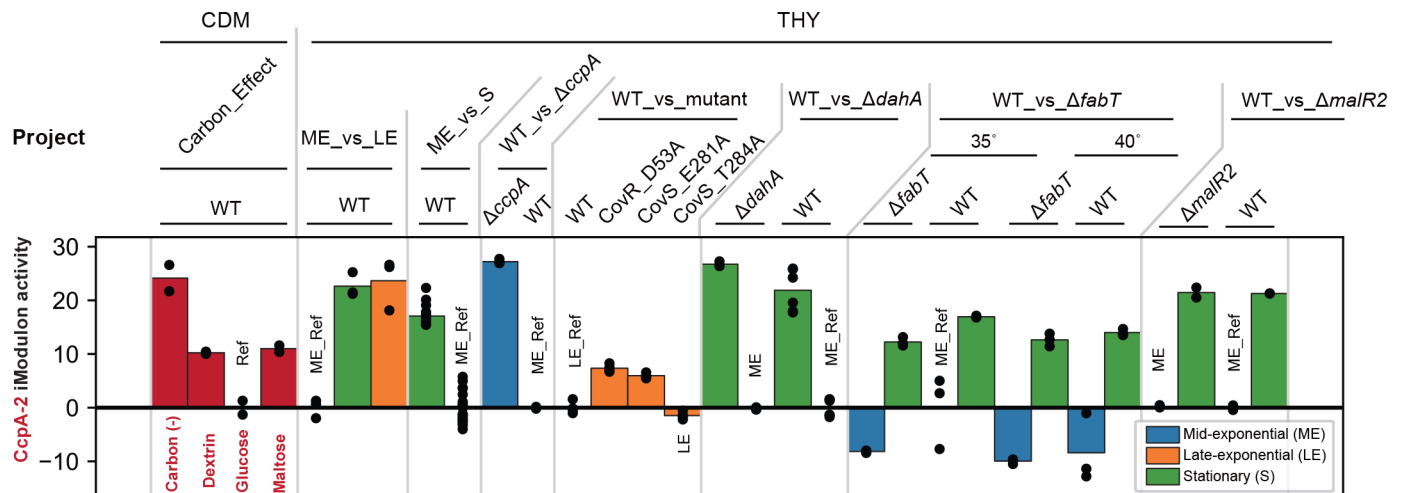
CcpA-2 iModulon

Significantly overlapped TRN: CcpA_core_M1 > CovR_CcpA_M1 > LacD.1_M14

Biological function:



Statistical basis for naming this iModulon



Biological function: Prophages



Statistical basis for naming this iModulon

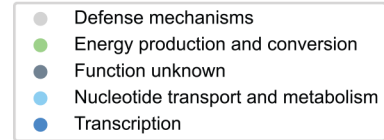
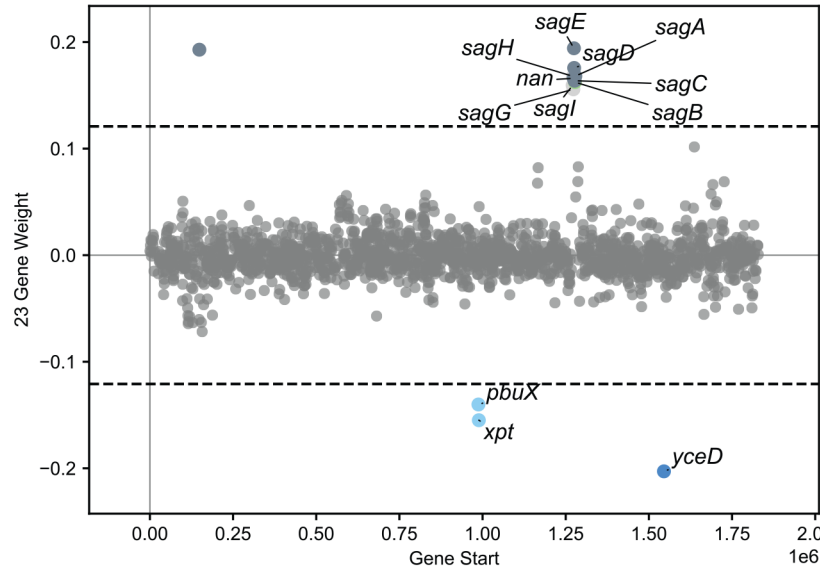


SLS iModulon

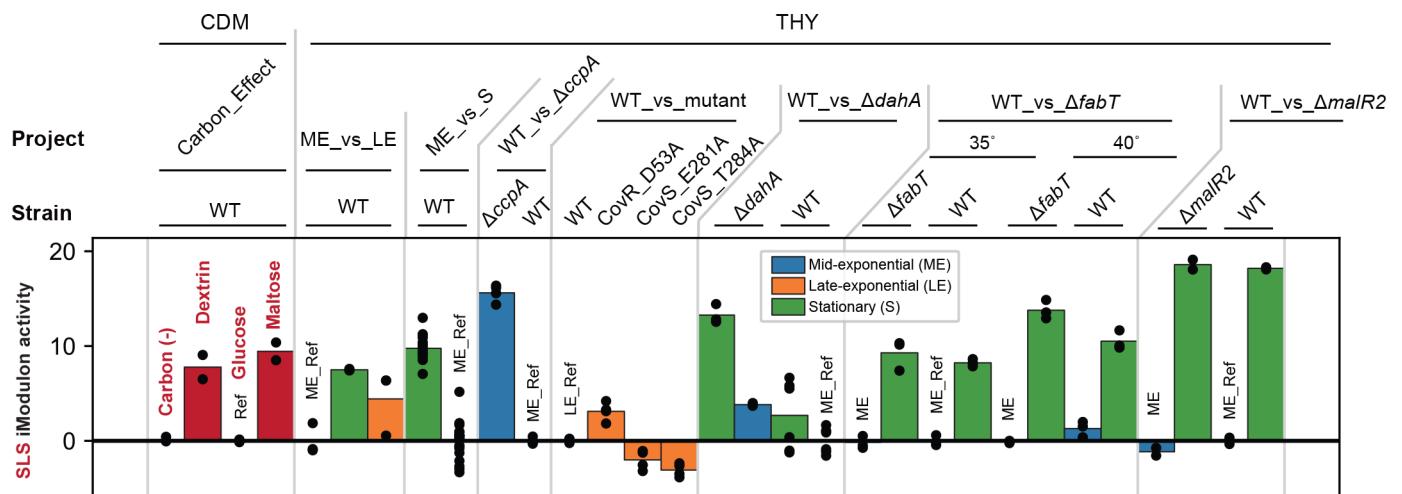
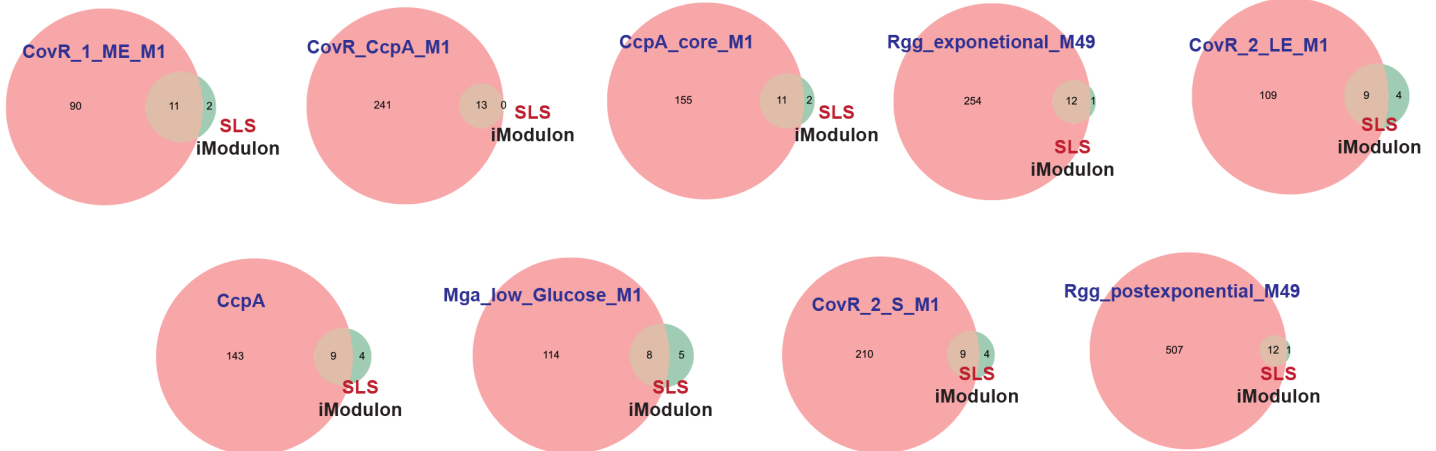
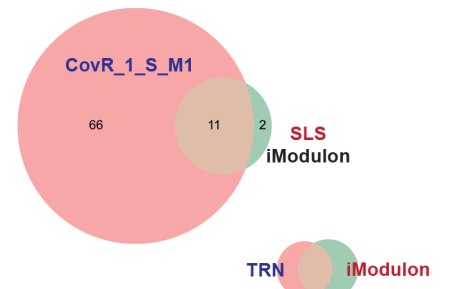
Significantly overlapped TRN:

CovR_1_S_M1 > CovR_1_ME_M1 > CovR_CcpA_M1 > CcpA_core_M1 > Rgg_exponential_M49
> CovR_2_LE_M1 > CcpA > Mga_low_Glucose_M1 > CovR_2_S_M1 > Rgg_postexponential_M49

Biological function: Toxin production

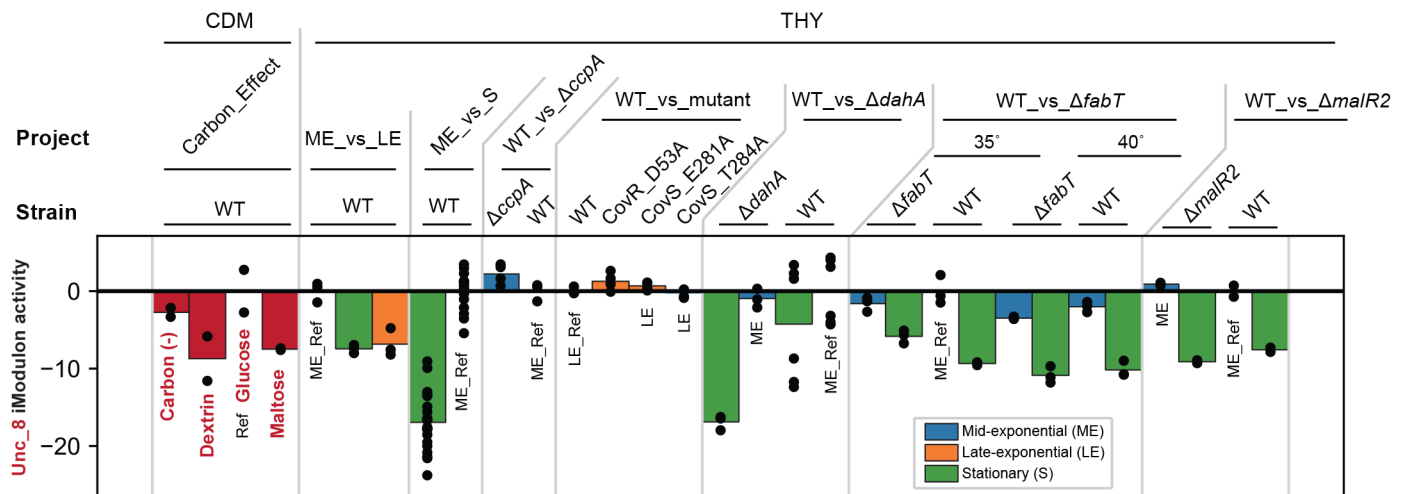
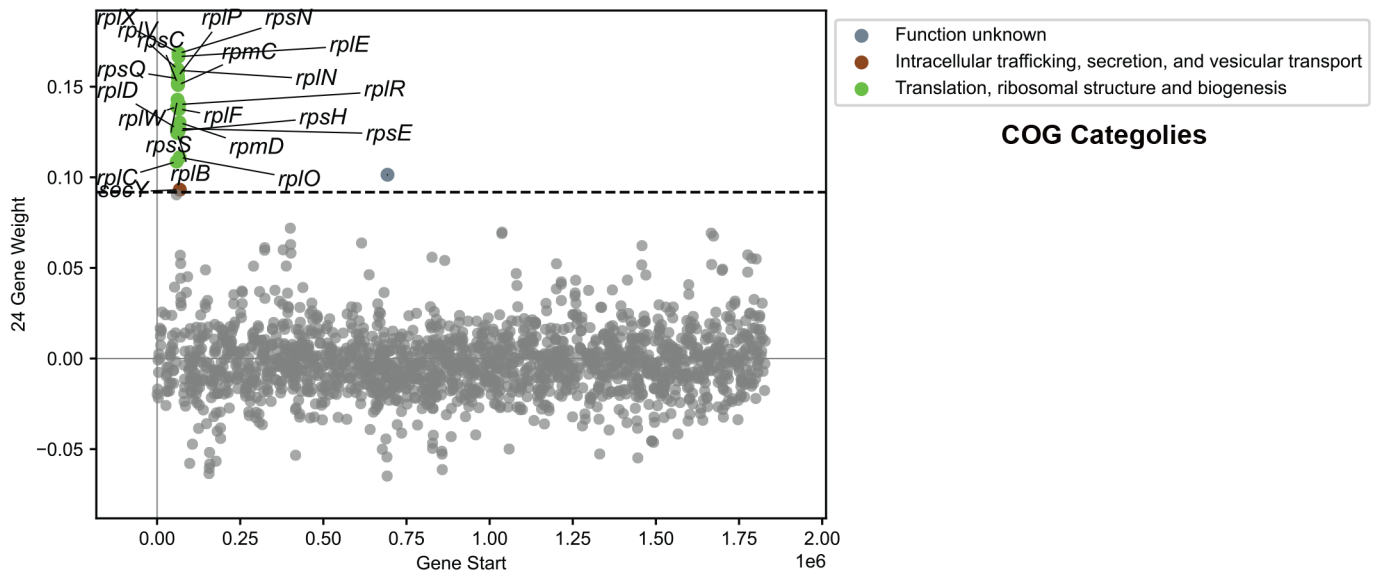


COG Categories

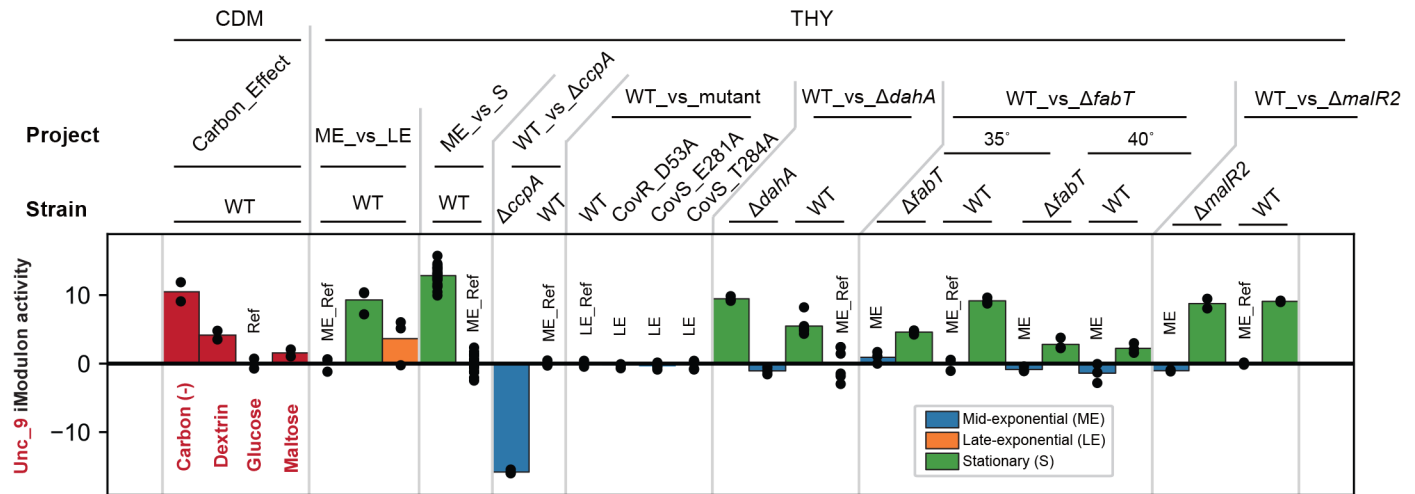
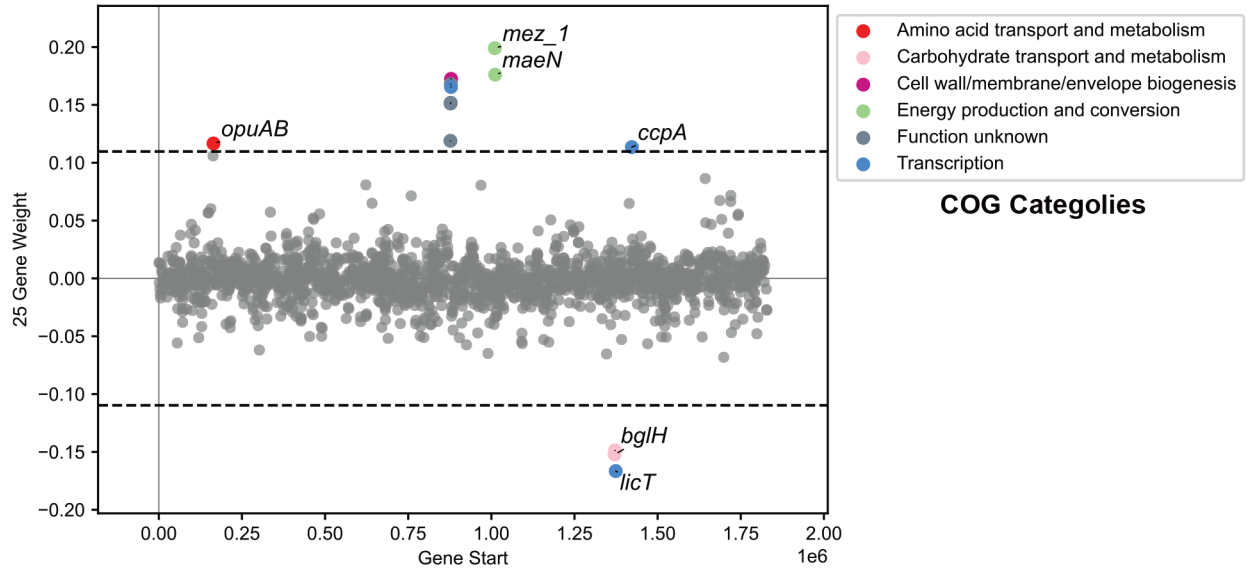


Unc_8 iModulon

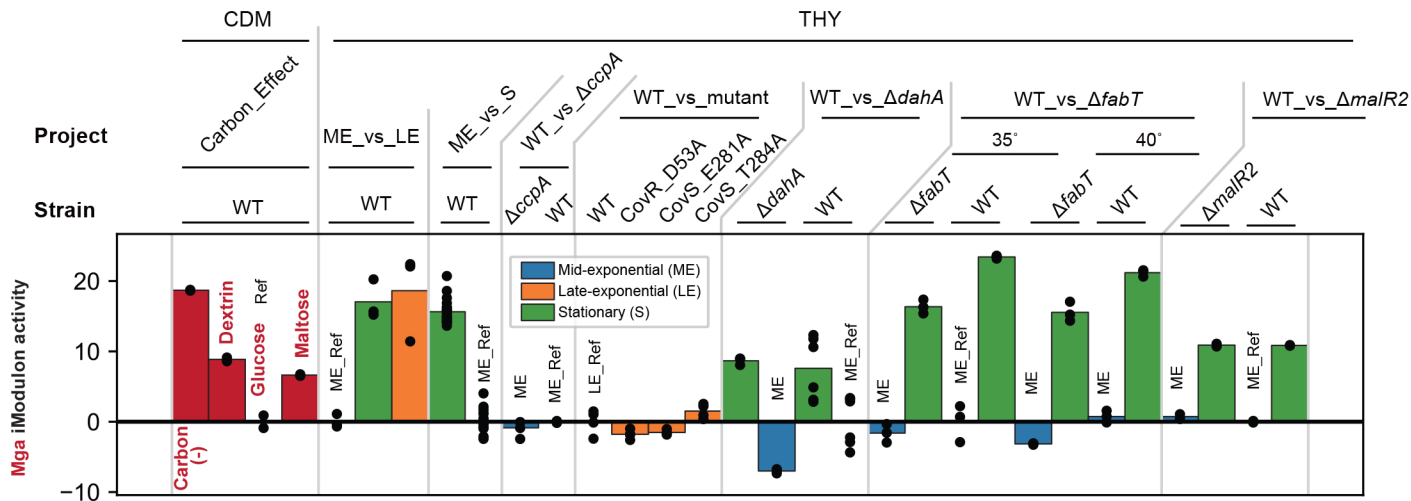
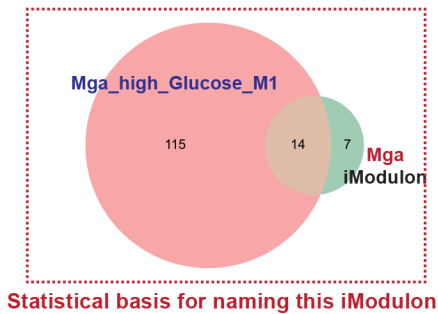
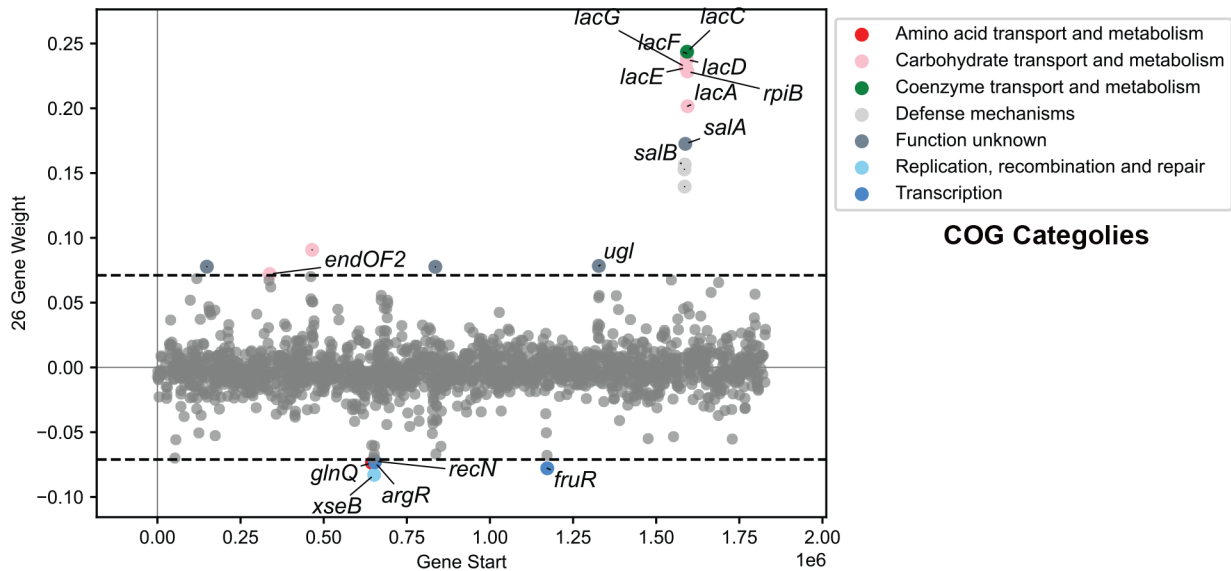
Significantly overlapped TRN: ---
Biological function: Translation



Unc_9 iModulon
Significantly overlapped TRN:
Biological function:

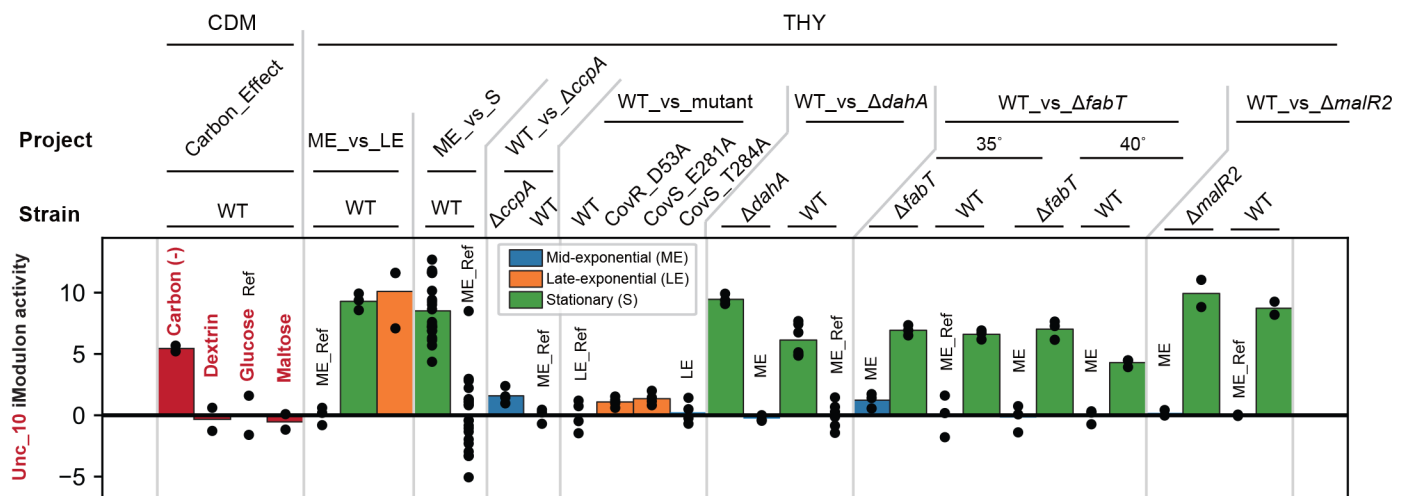
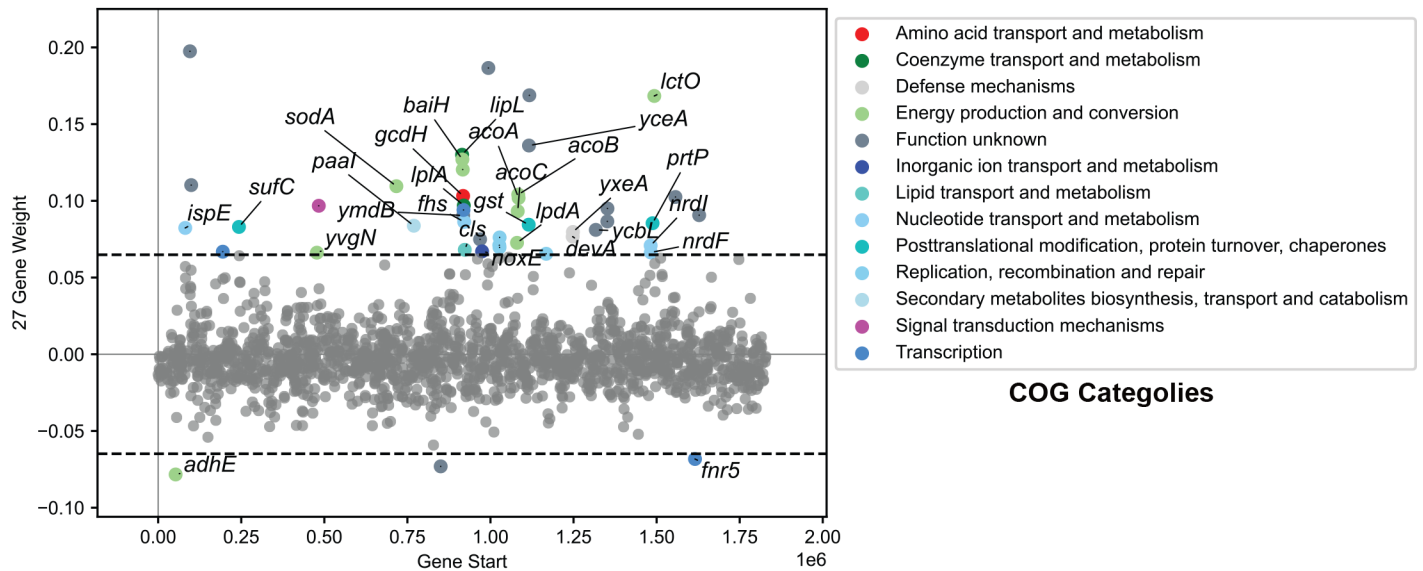


Mga iModulon
Significantly overlapped TRN: **Mga_high_Glucose_M1**
Biological function: Carbon use

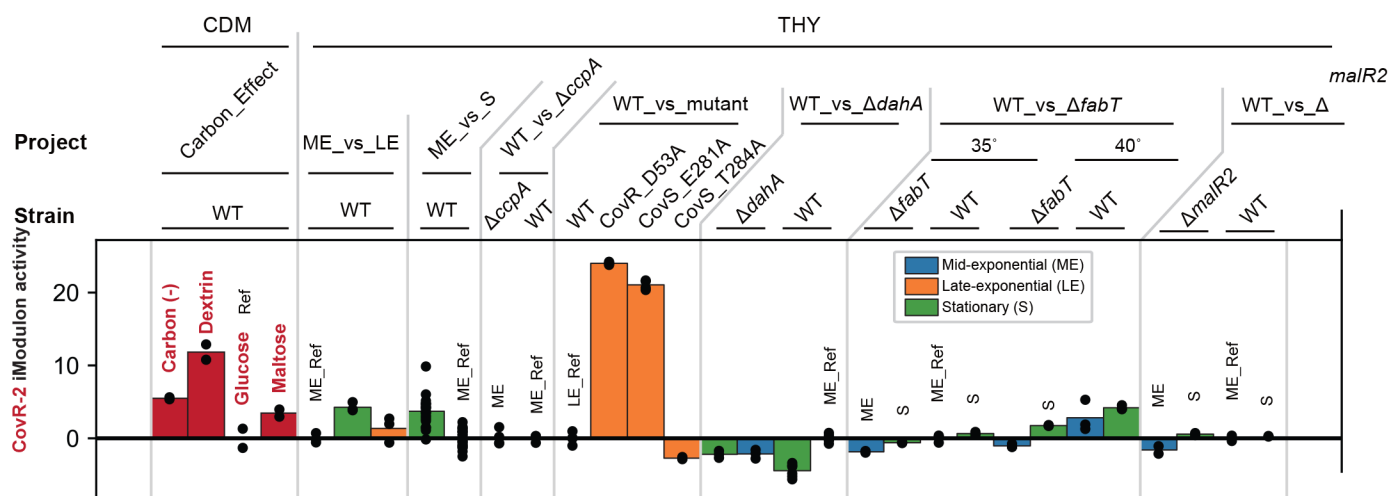
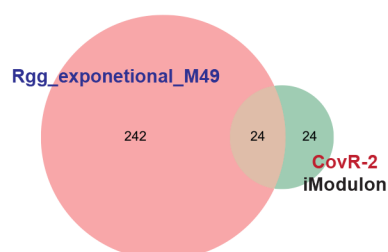
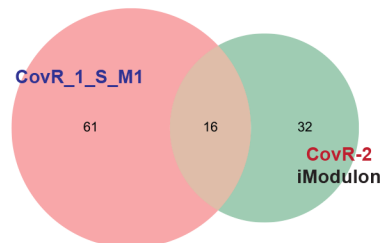


Unc_10 iModulon

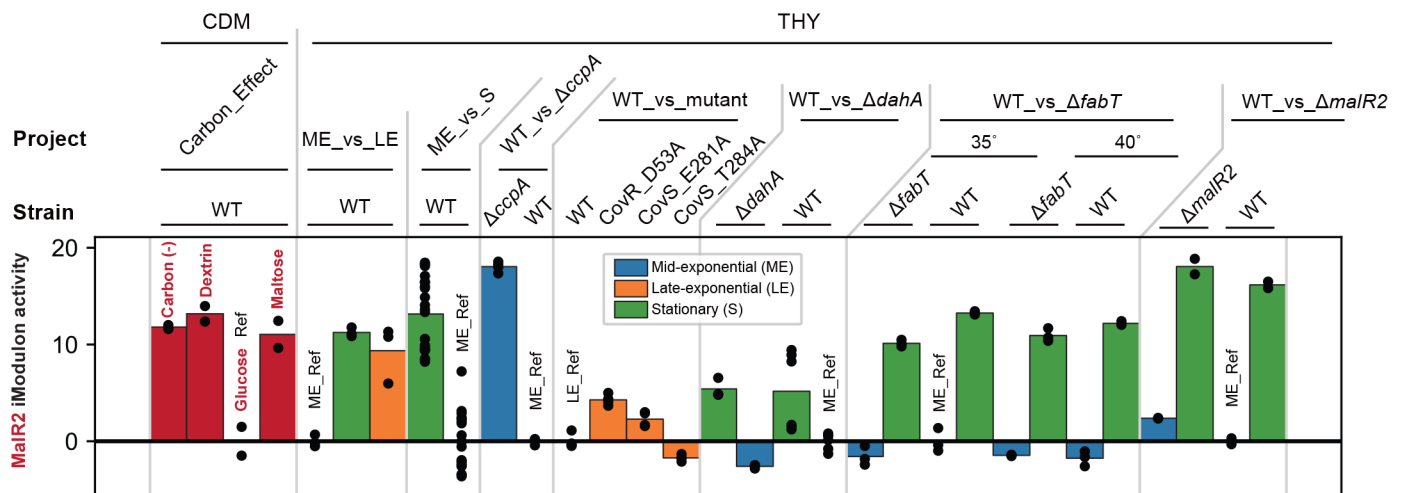
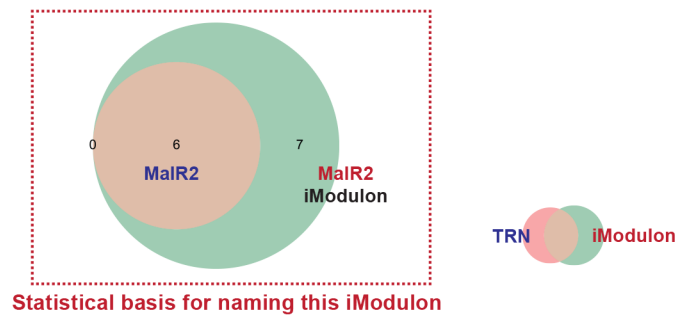
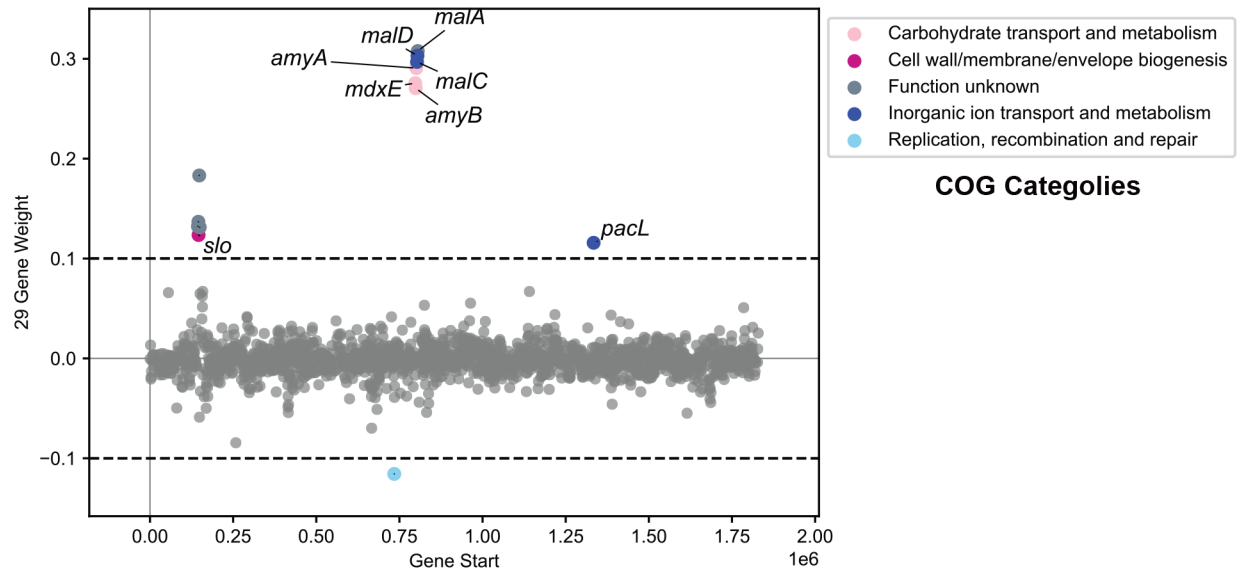
Significantly overlapped TRN: ---
Biological function: ---



Significantly overlapped TRN: CovR_1_ME_M1 > CovR_CcpA_M1 > CovR_1_S_M1 > Rgg_exponential_M49
Biological function: Replication



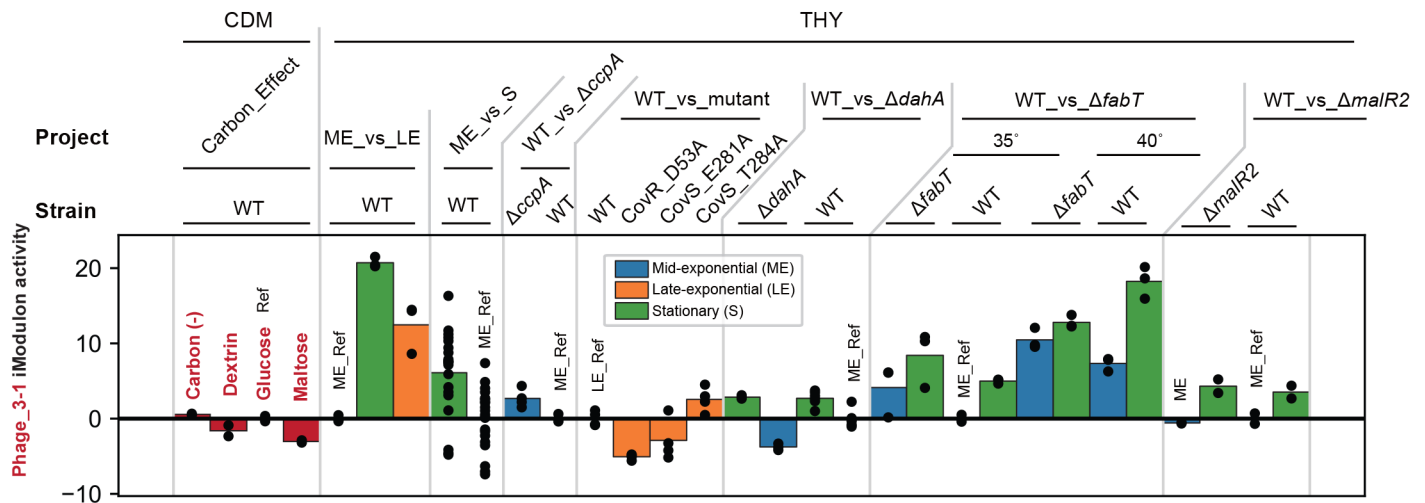
Biological function: Carbon use



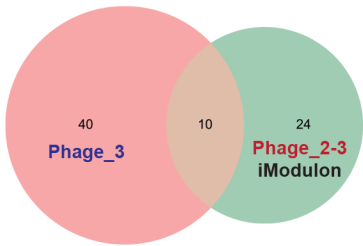
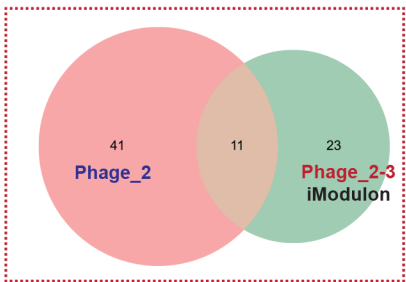
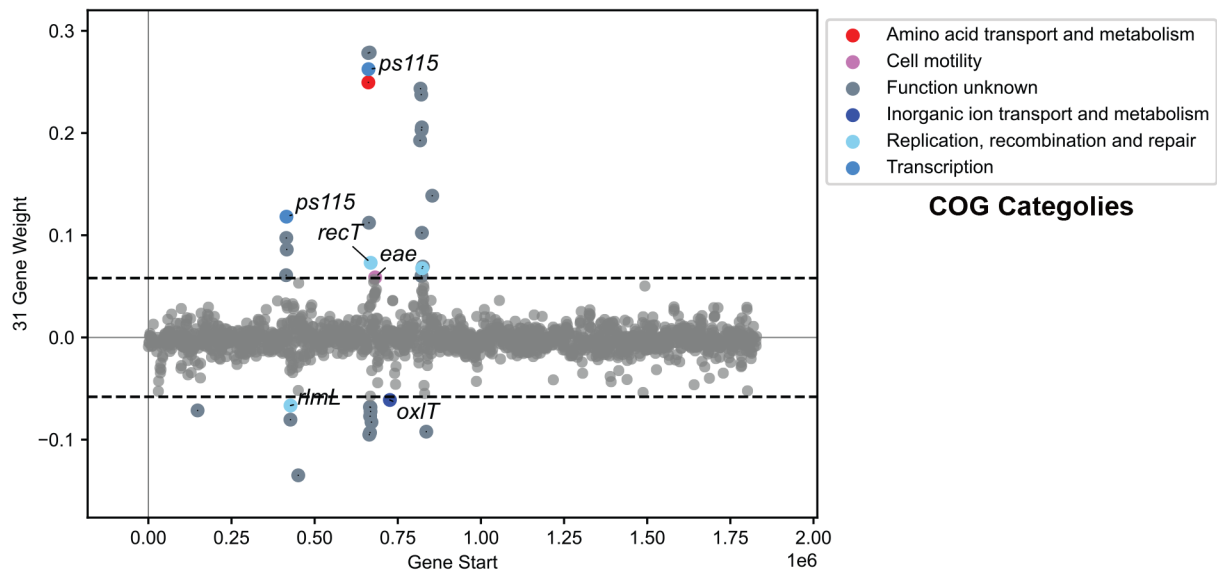
Biological function: Prophages



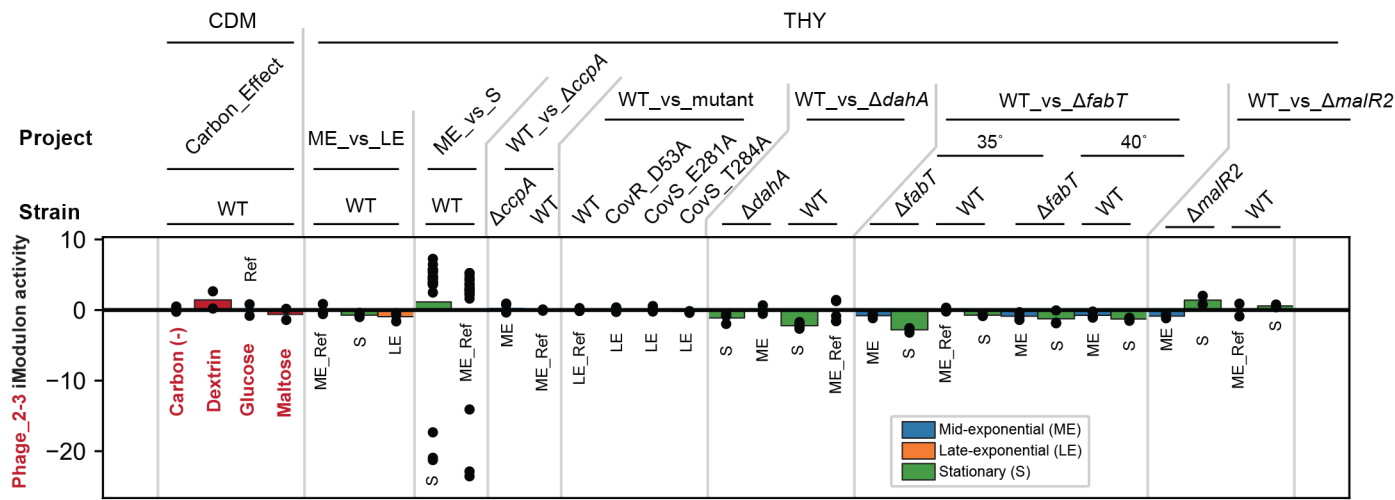
TRN iModulon



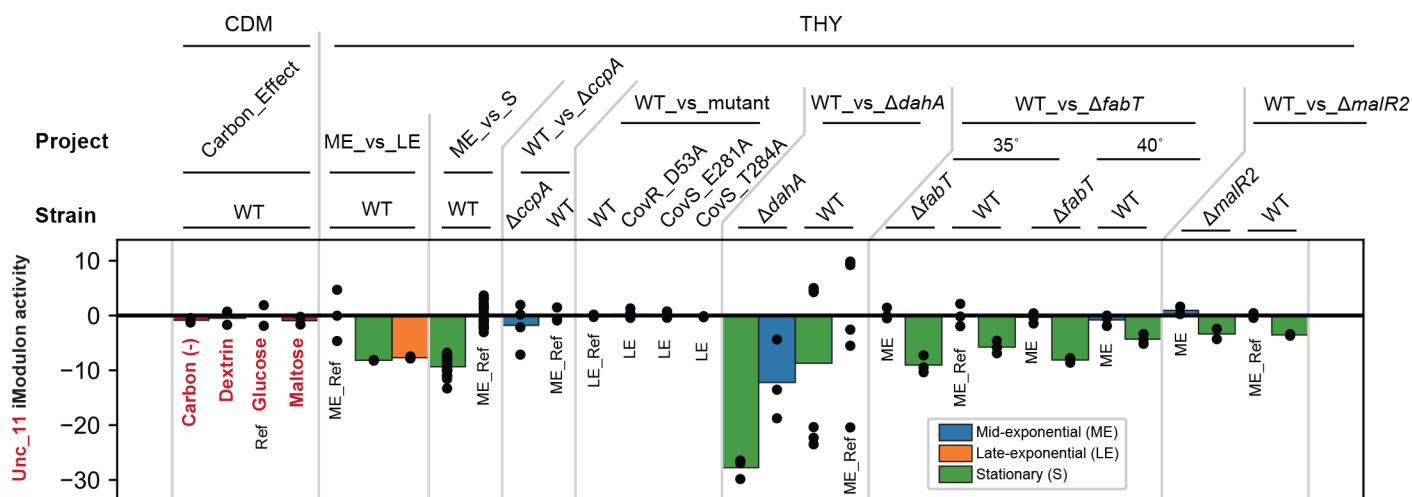
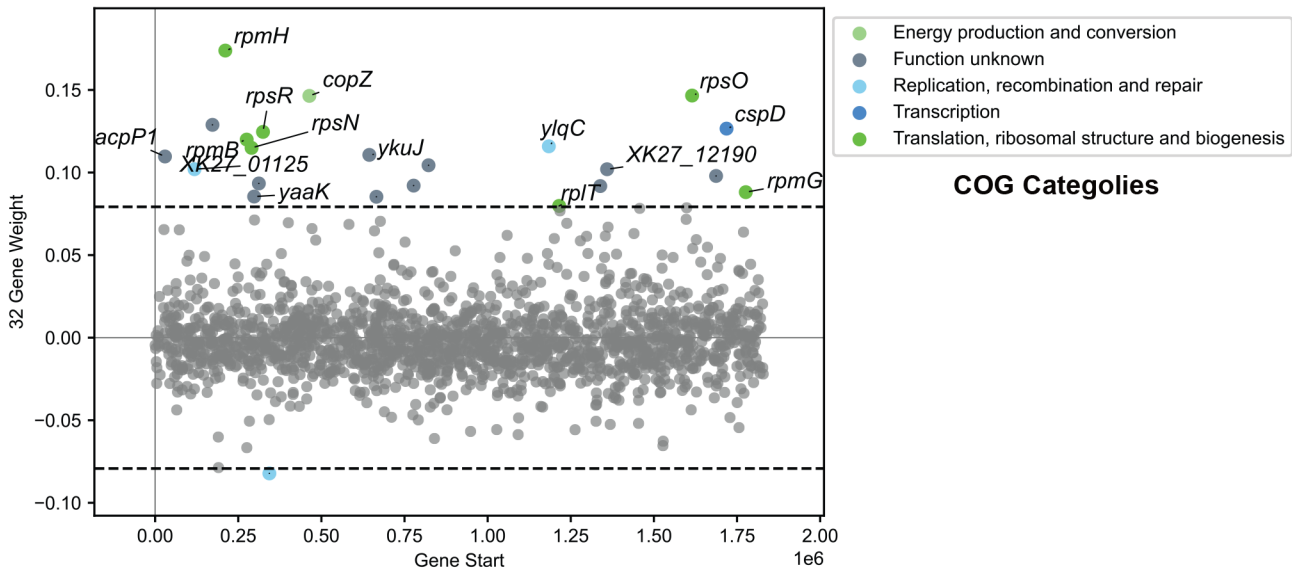
Phage_2-3 iModulon
Significantly overlapped TRN: Phage_2 > Phage_3
Biological function: Prophages



Statistical basis for naming this iModulon

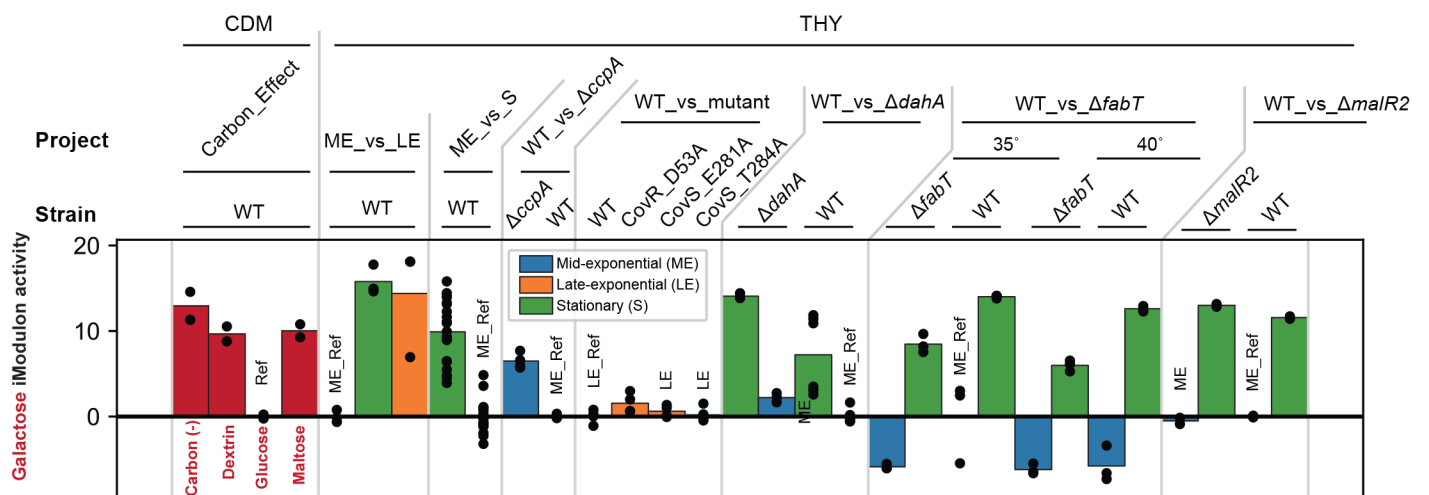
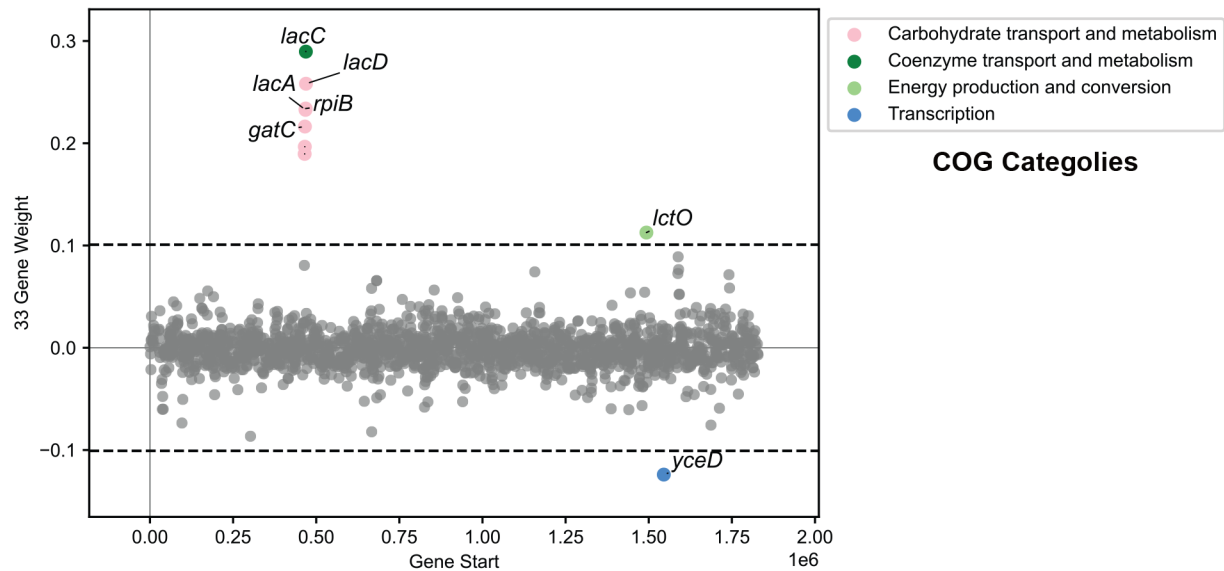


Unc_11 iModulon
Significantly overlapped TRN: ---
Biological function: Translation



Galactose iModulon

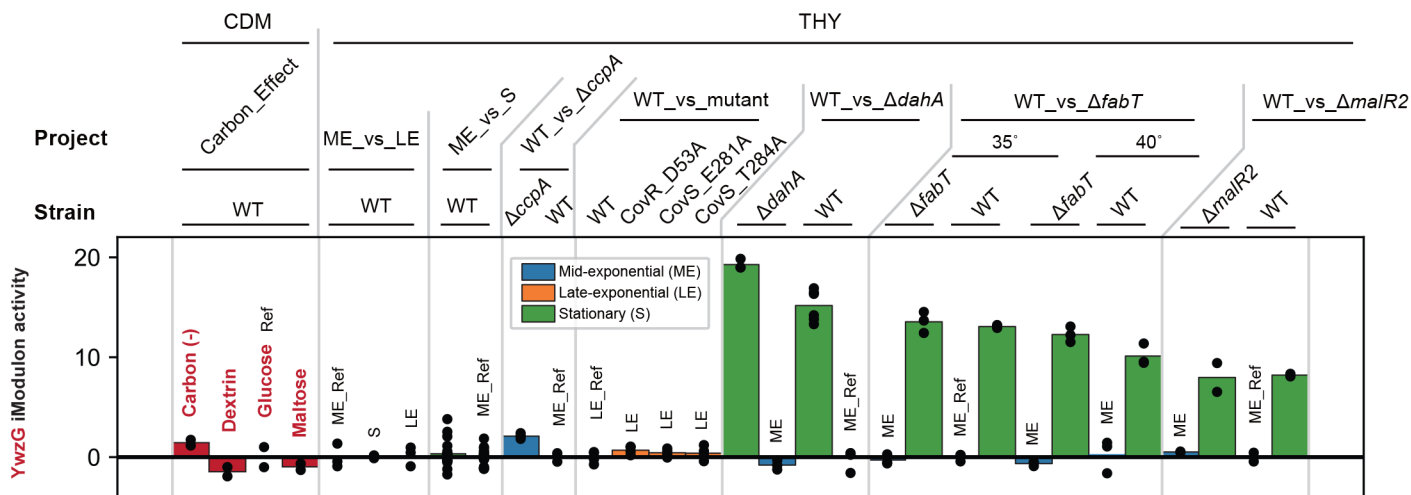
Significantly overlapped TRN: ---
Biological function: Carbon use



Biological function: Multi-purpose metabolism



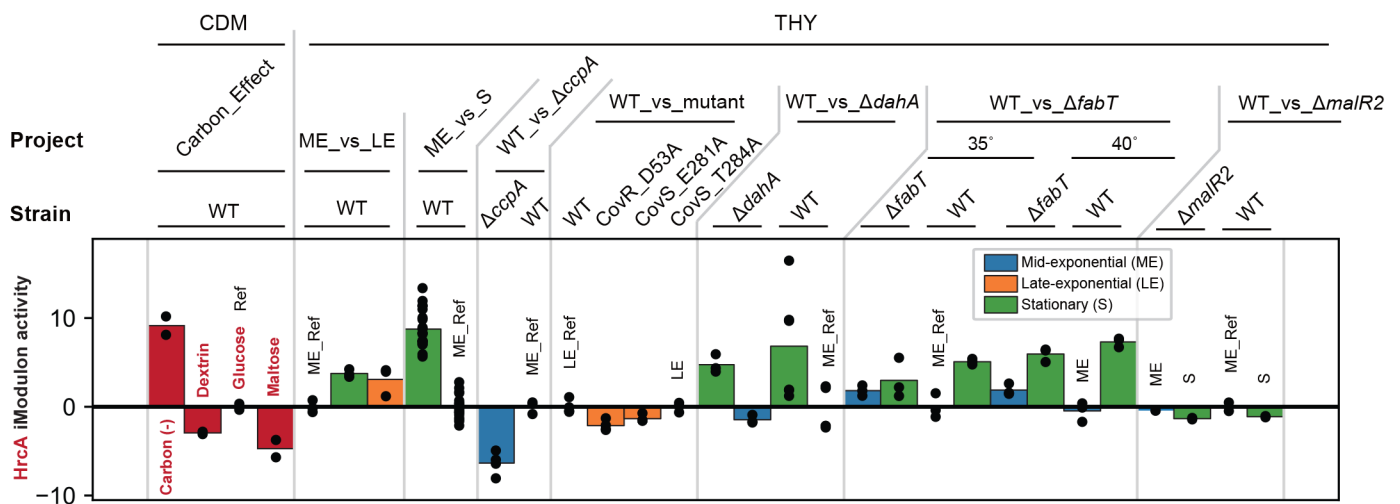
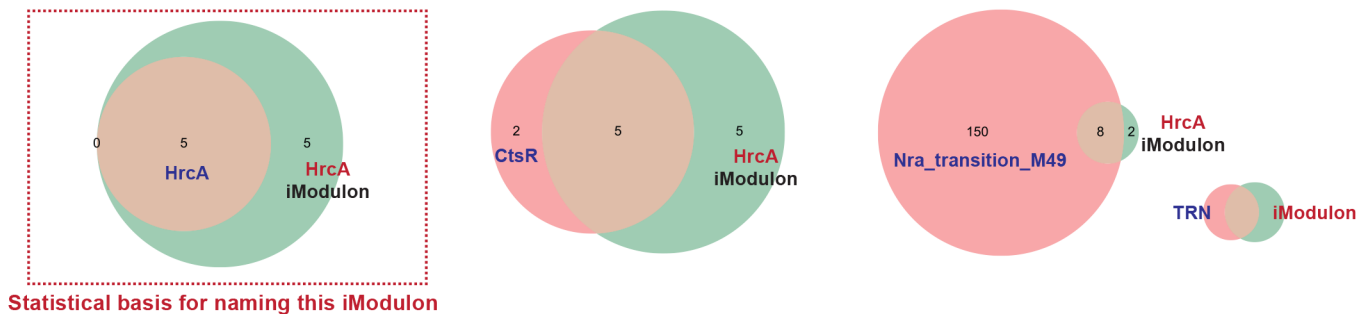
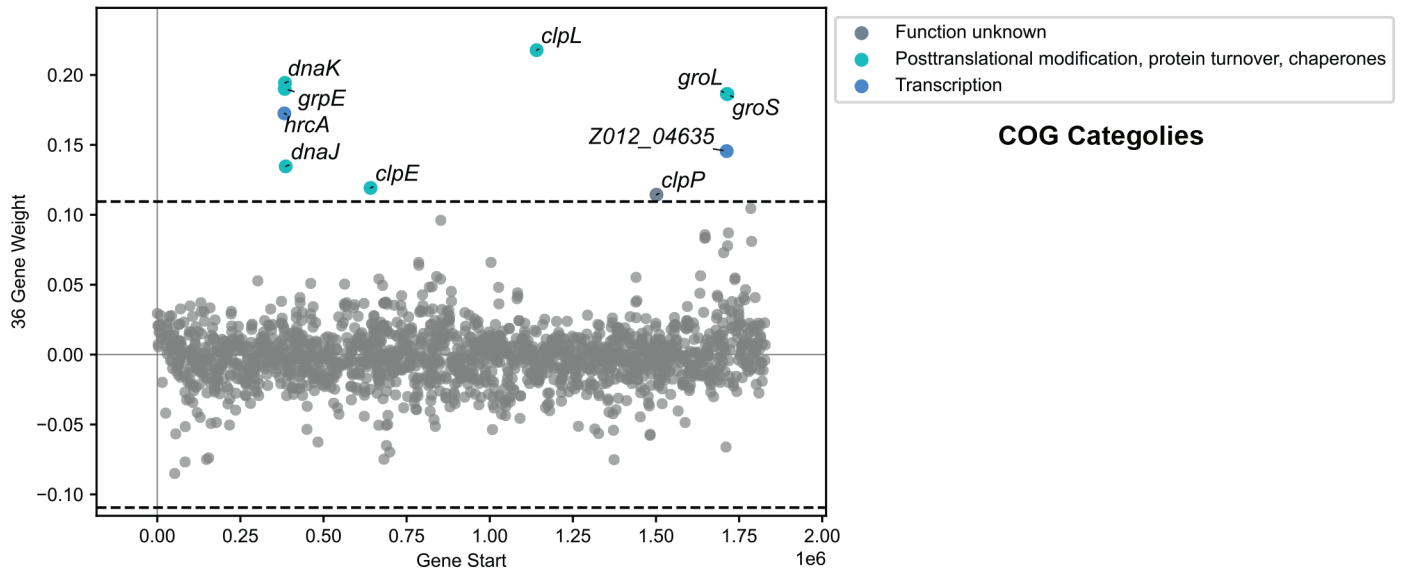
Biological function: Transport



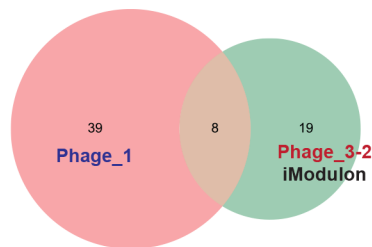
HrcA iModulon

Significantly overlapped TRN: HrcA > CtsR > Nra_transition_M49

Biological function: Translation



Biological function: Prophages



TRN iModulon

Phage-3.2 iModulon activity

CDM

Carbon Effect

WT

Carbon (-) Dextrans Glucose Maltose Ref

ME vs LE

WT

ME_Ref

THY

ME vs S

WT

ME_Ref

WT vs Δ ccpA

WT

ME_Ref

WT vs mutant

WT

CovR_D53A CovS_E281A CovS_T284A

WT vs Δ daha

WT

ME_Ref

WT vs Δ fabT

WT

35° 40°

WT vs Δ malR2

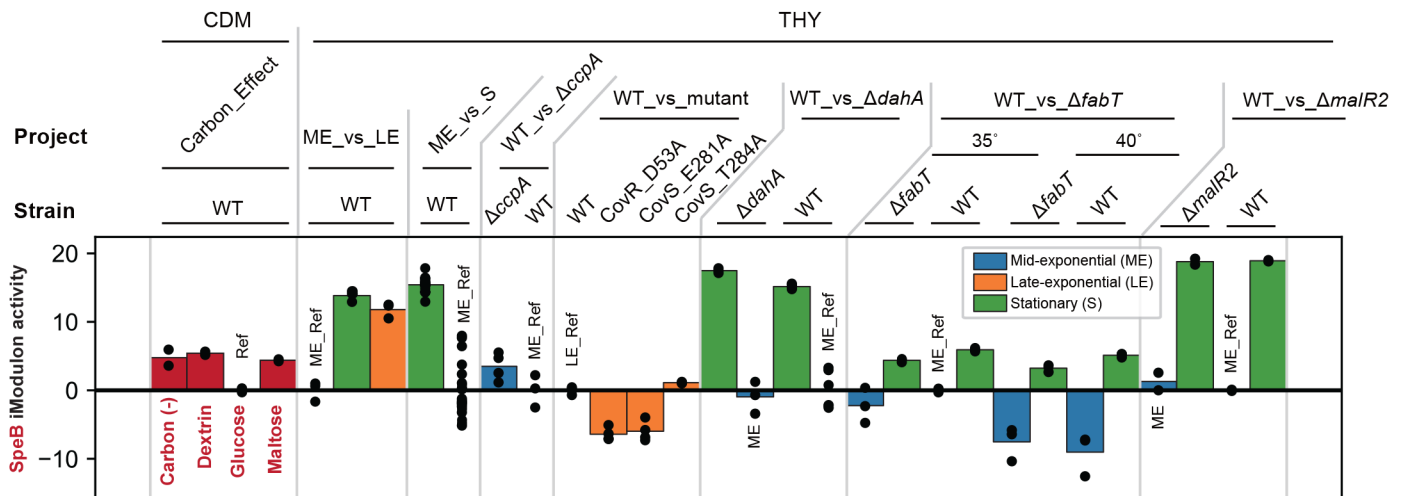
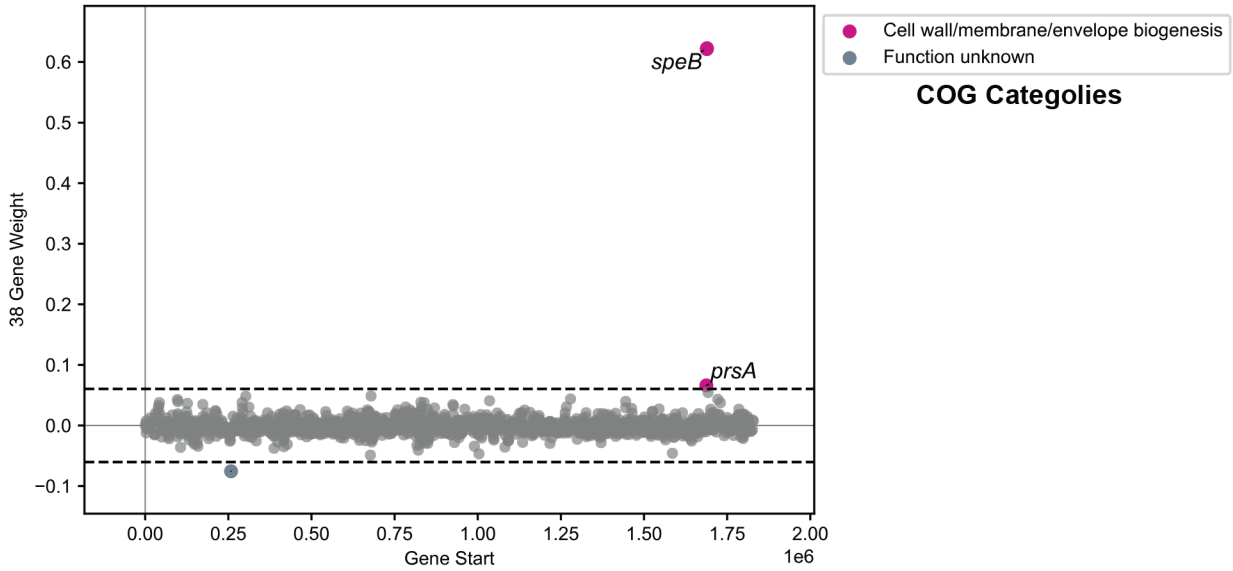
WT

ME_Ref

Legend:

- Mid-exponential (ME)
- Late-exponential (LE)
- Stationary (S)

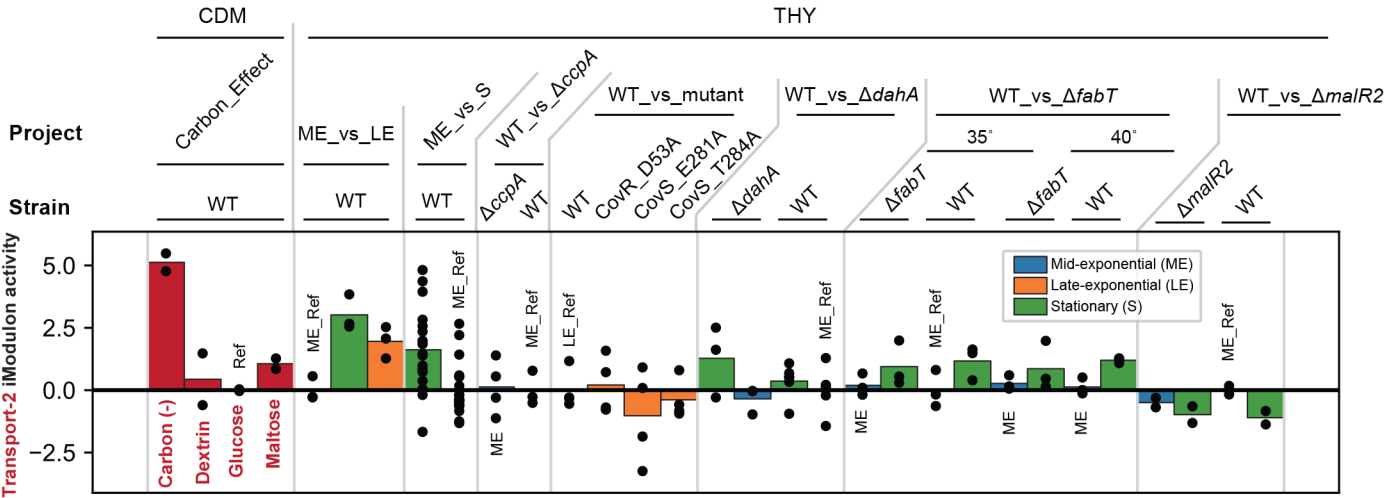
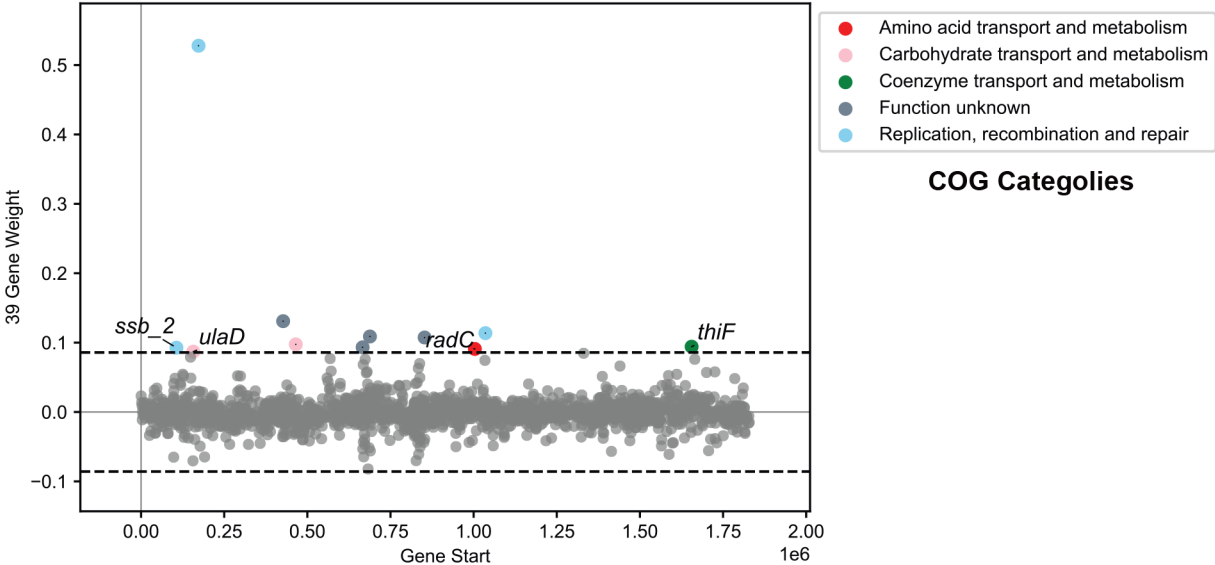
SpeB iModulon
Significantly overlapped TRN: ---
Biological function: Toxin production



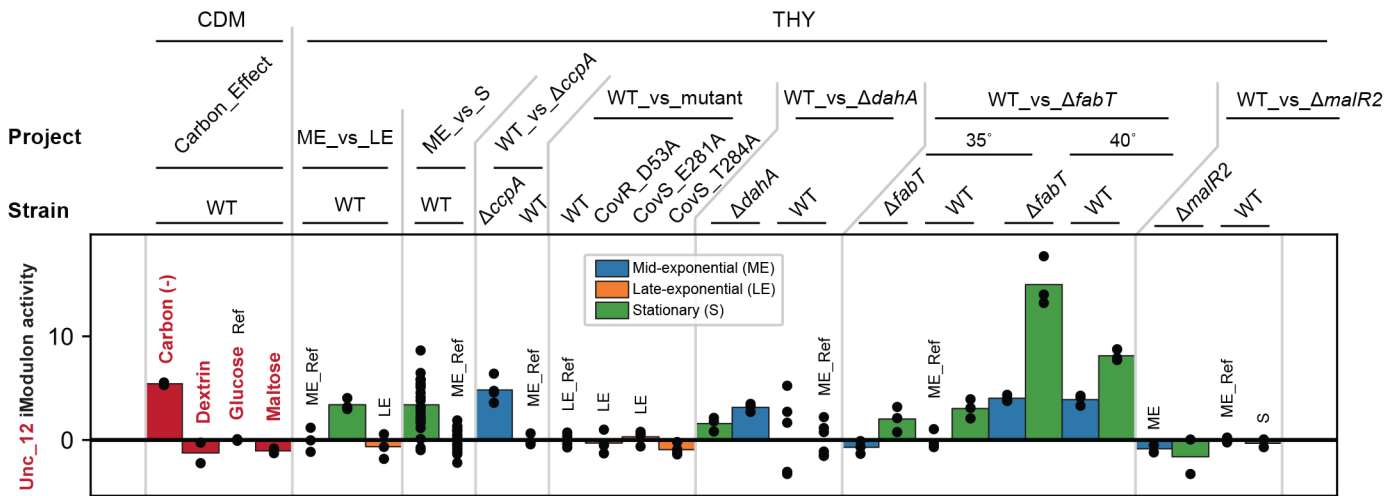
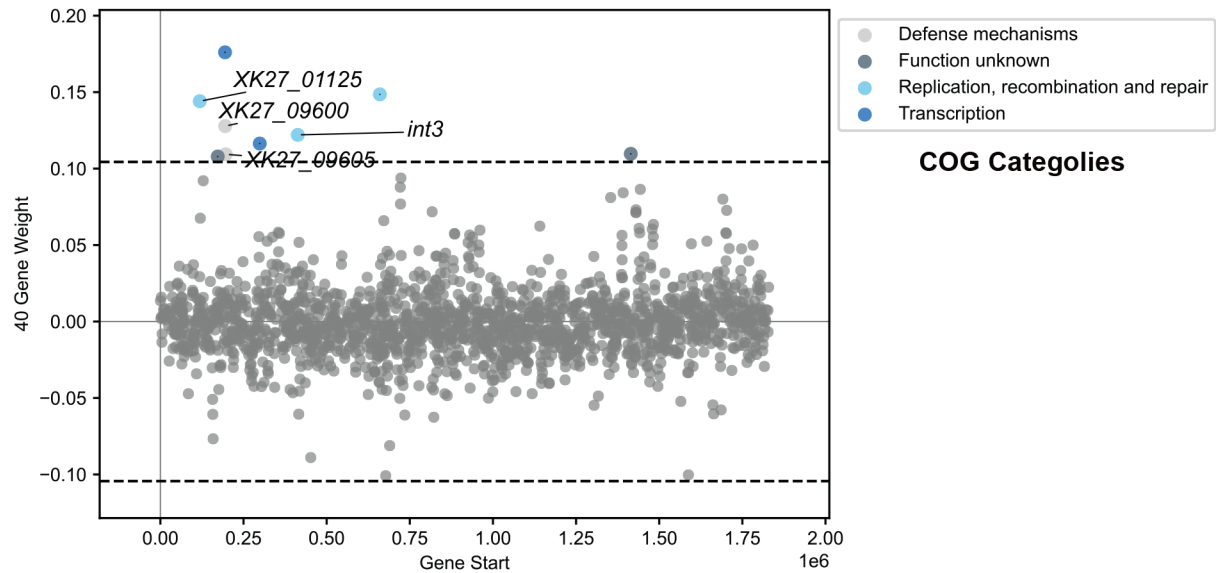
Transport-2 iModulon

Significantly overlapped TRN:

Biological function: Multi-purpose metabolism



Unc_12 iModulon
Significantly overlapped TRN: ---
Biological function: General stress



SLO iModulon
Significantly overlapped TRN: ---
Biological function: Toxin production

