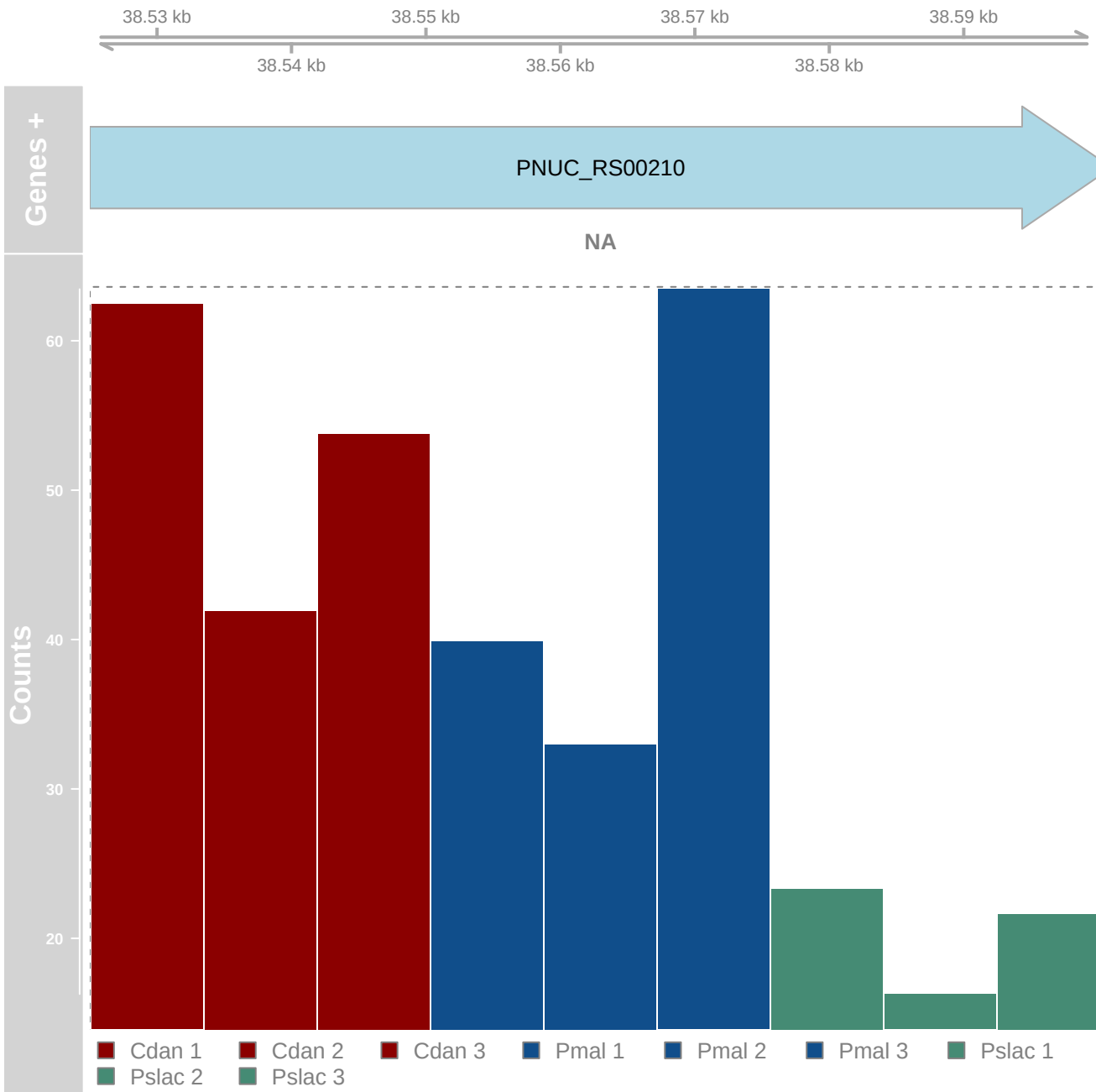




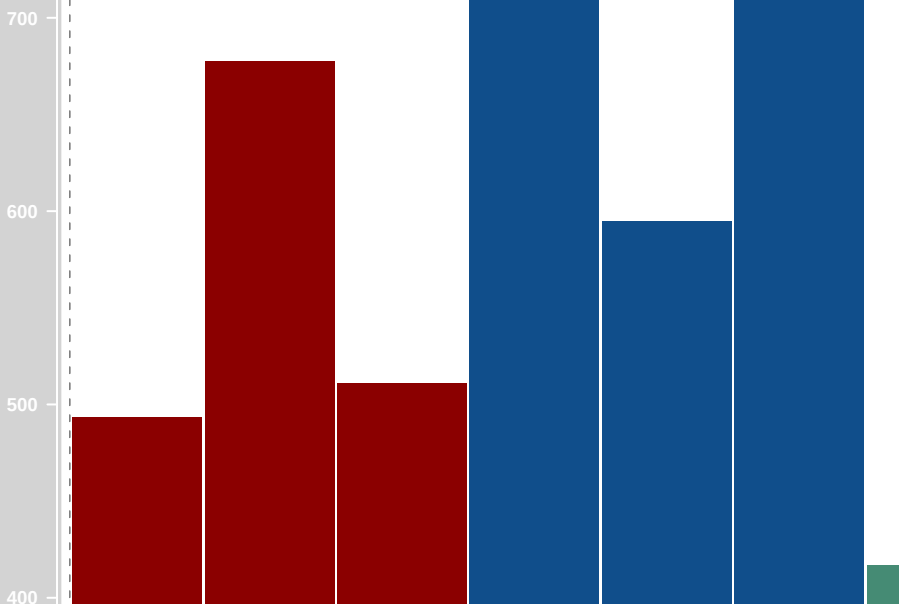


Genes +

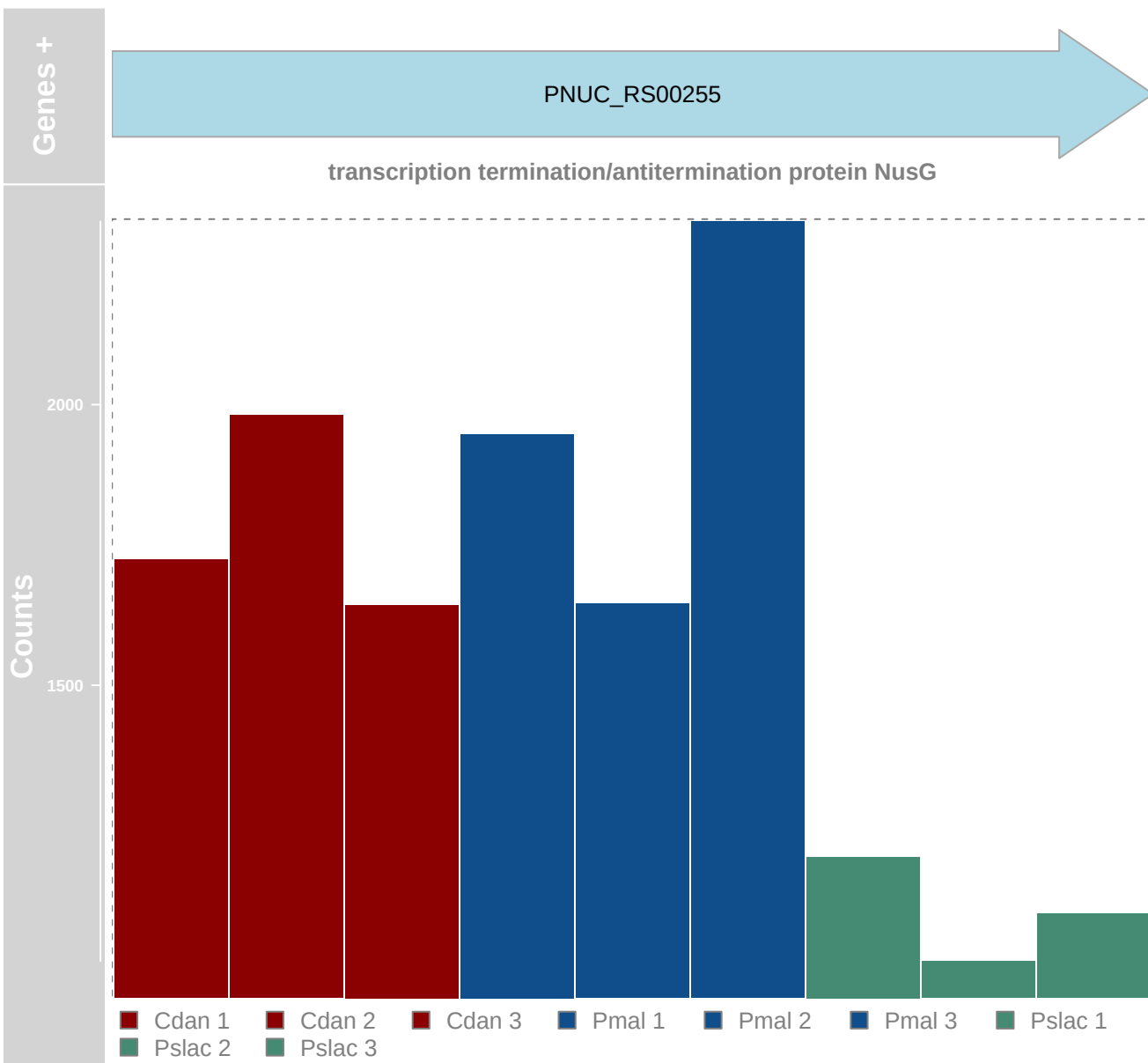
PNUC_RS00250

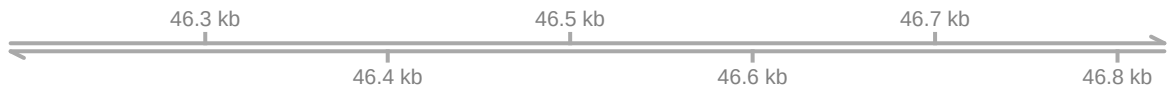
preprotein translocase subunit SecE

Counts



Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1 Pslac 2 Pslac 3

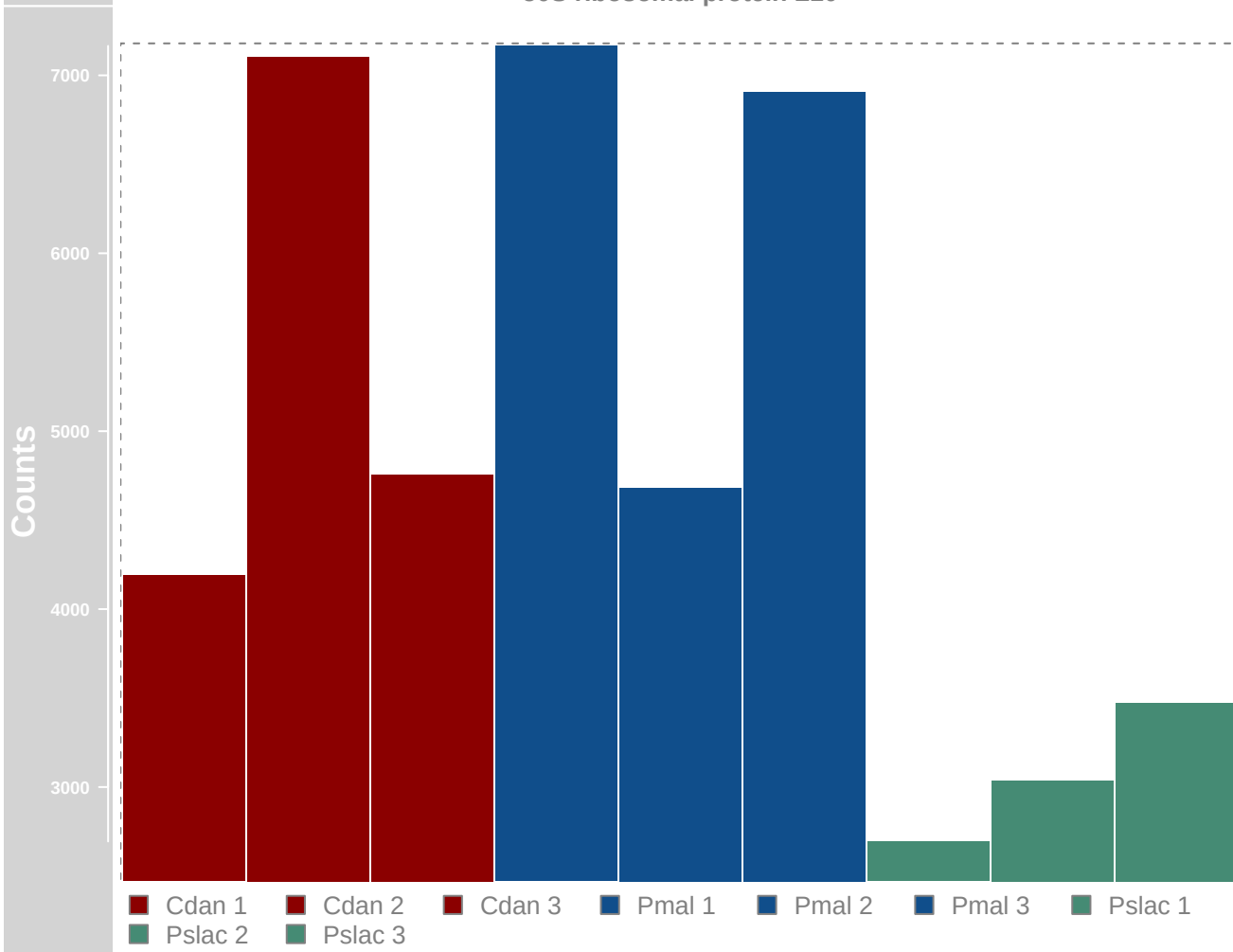




Genes +

PNUC_RS00270

50S ribosomal protein L10



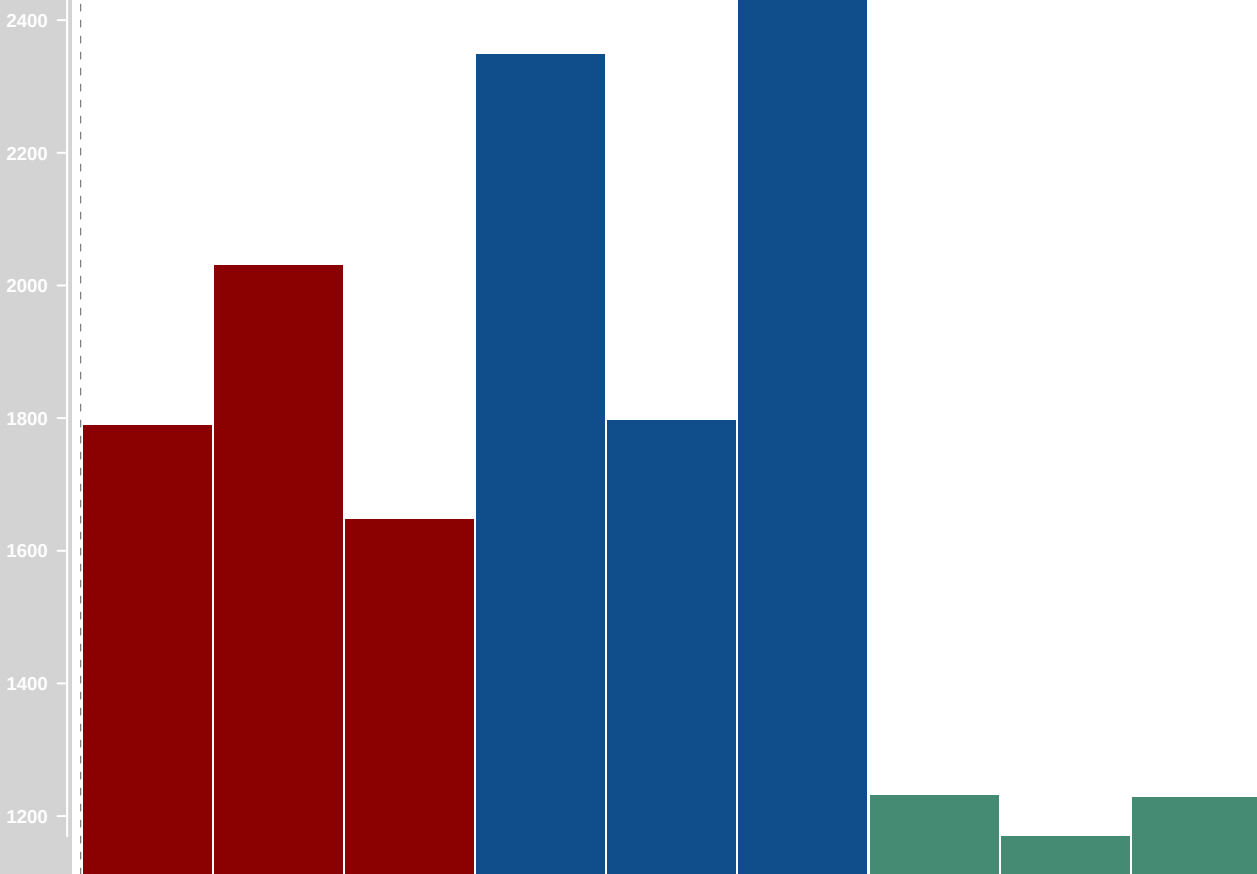


Genes +

PNUC_RS00295

30S ribosomal protein S7

Counts



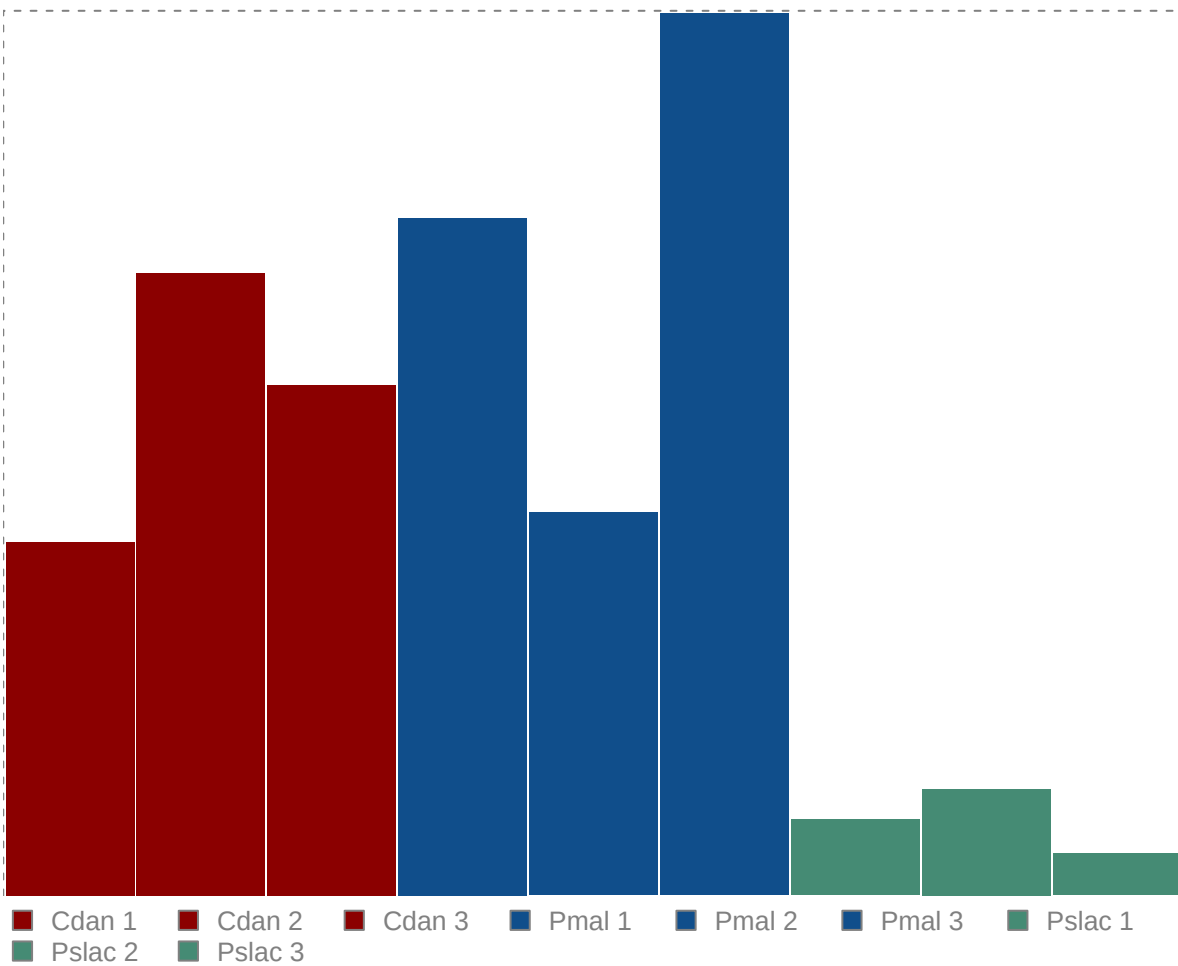
Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1 Pslac 2 Pslac 3

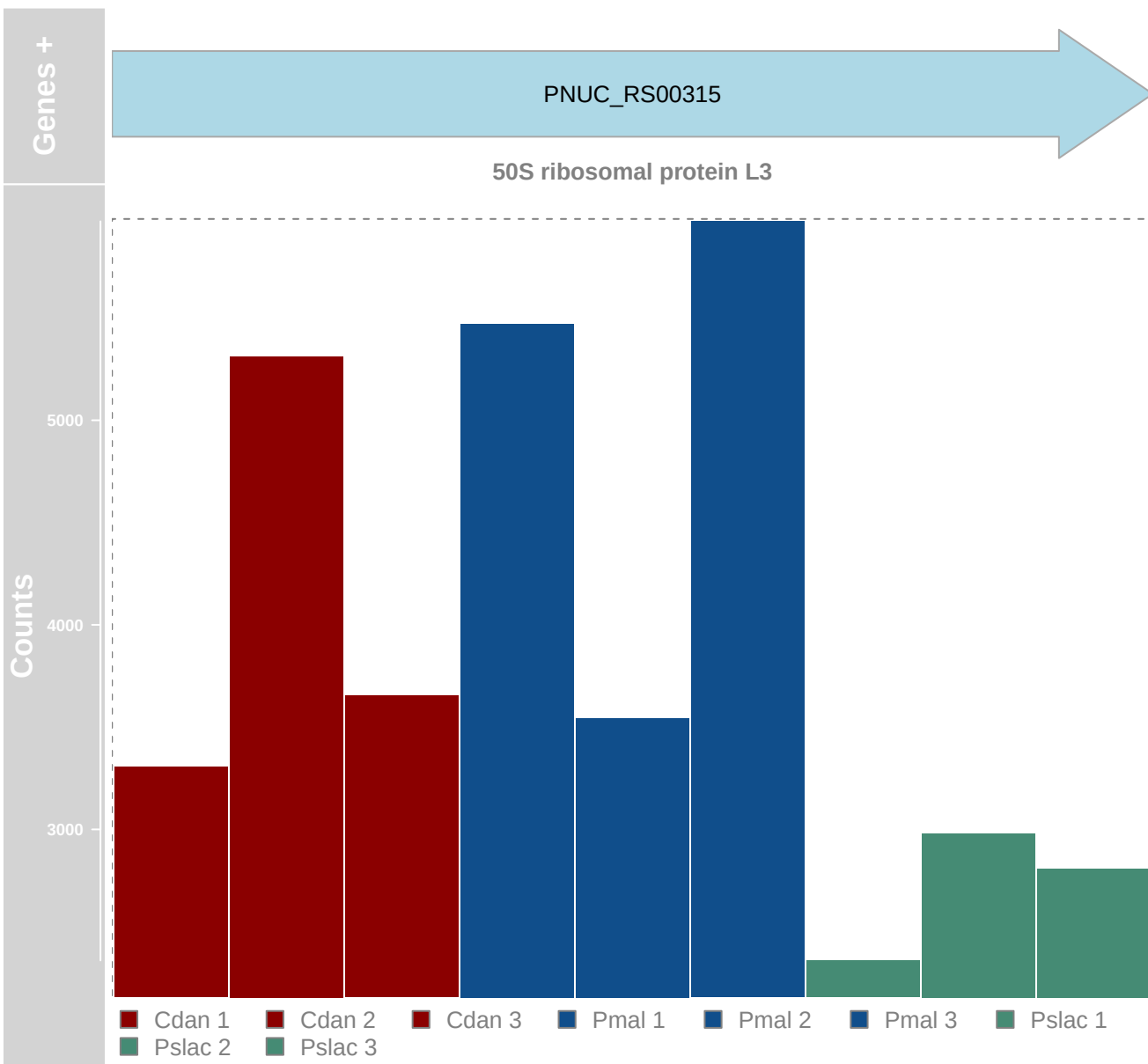


Genes +

PNUC_RS00300

elongation factor G





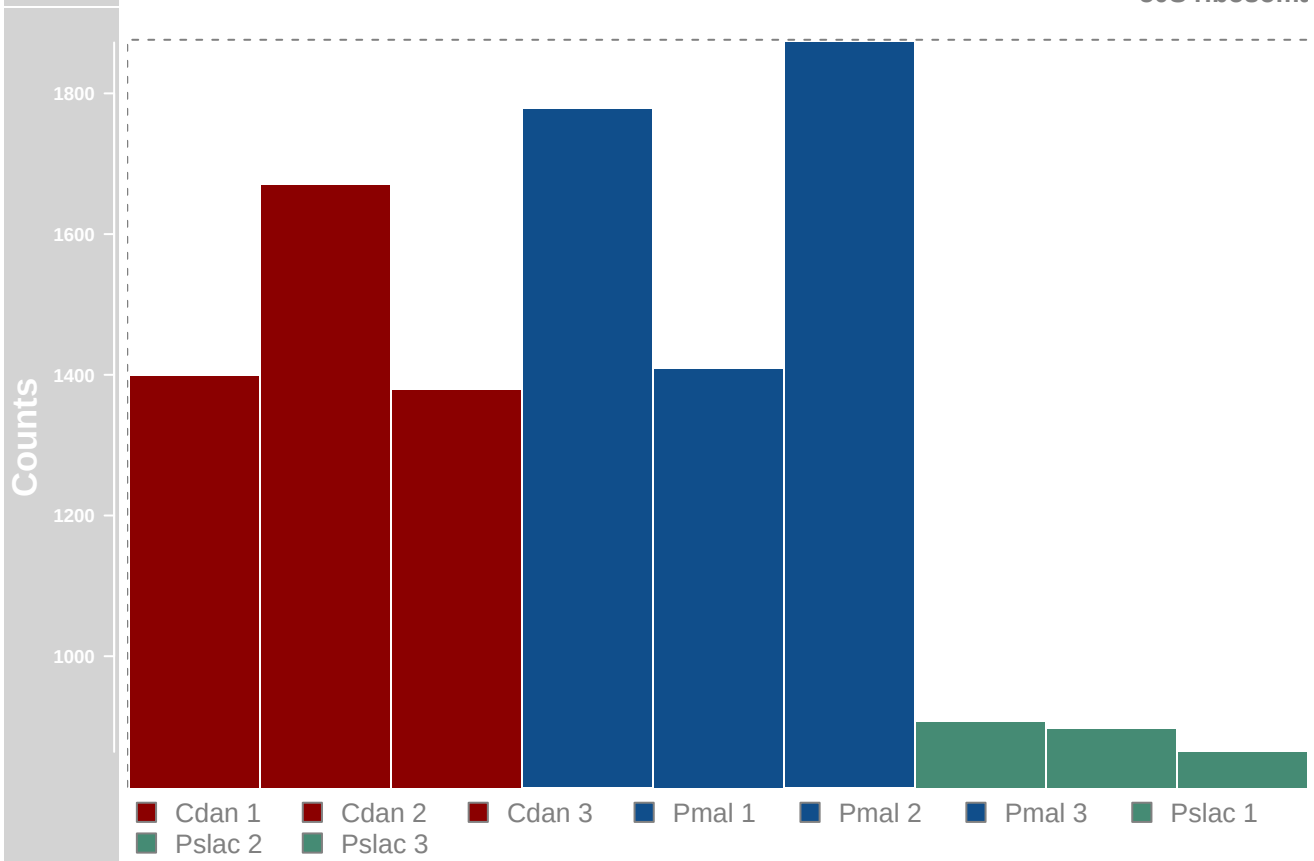


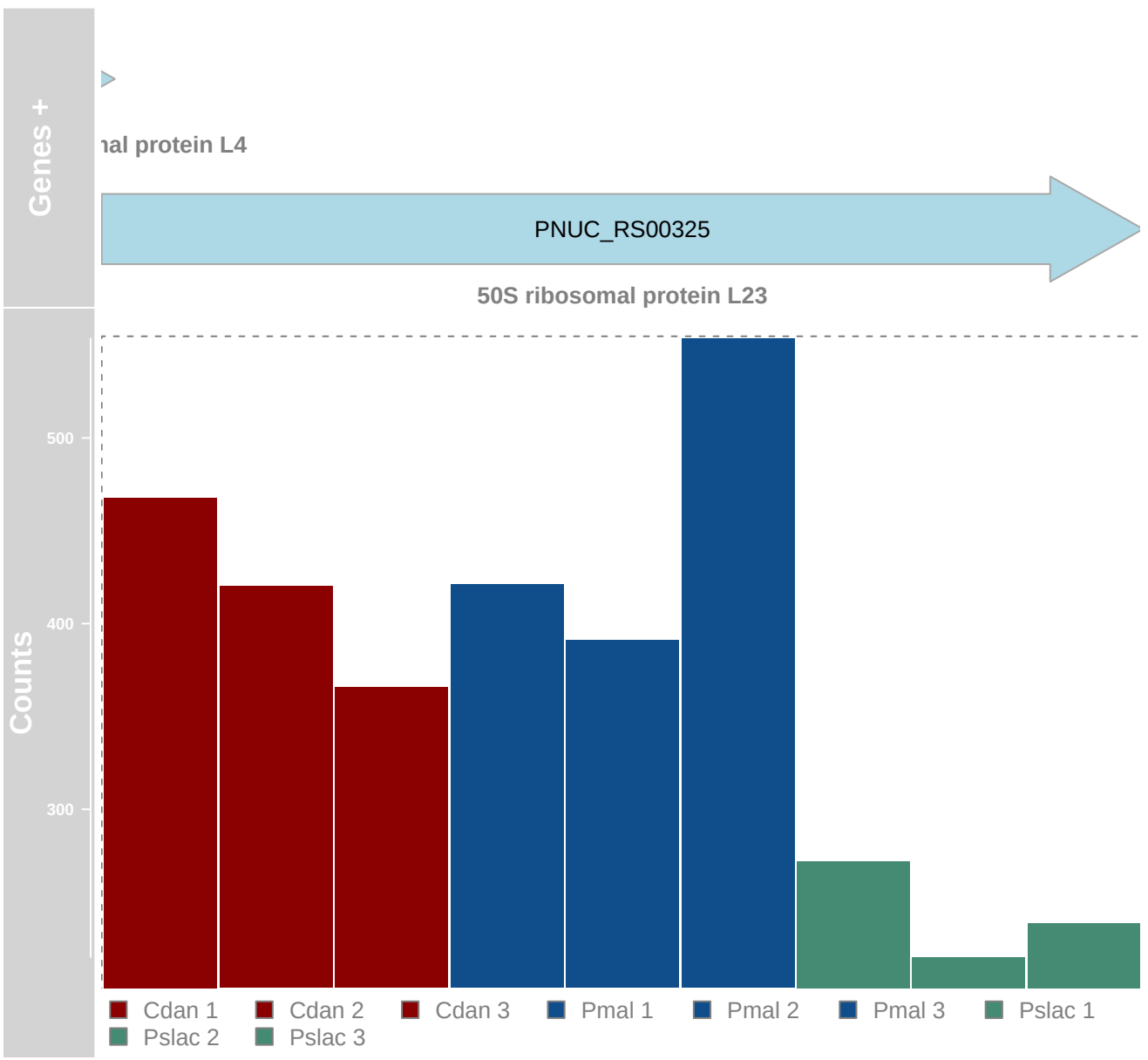
Genes +

PNUC_RS00320

50S ribosomal protein L4

50S ribosome

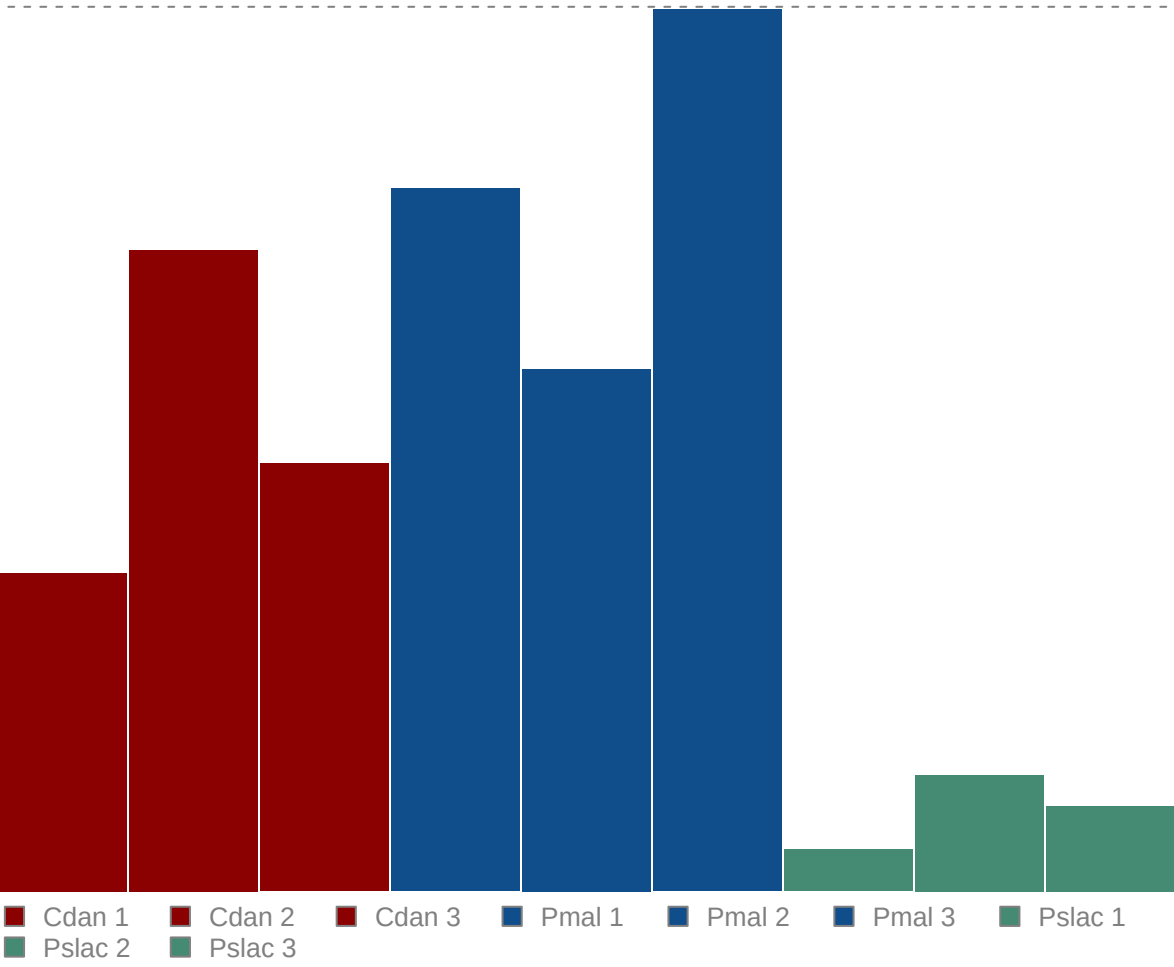






Genes +

Counts





Genes +

PNUC_RS00345

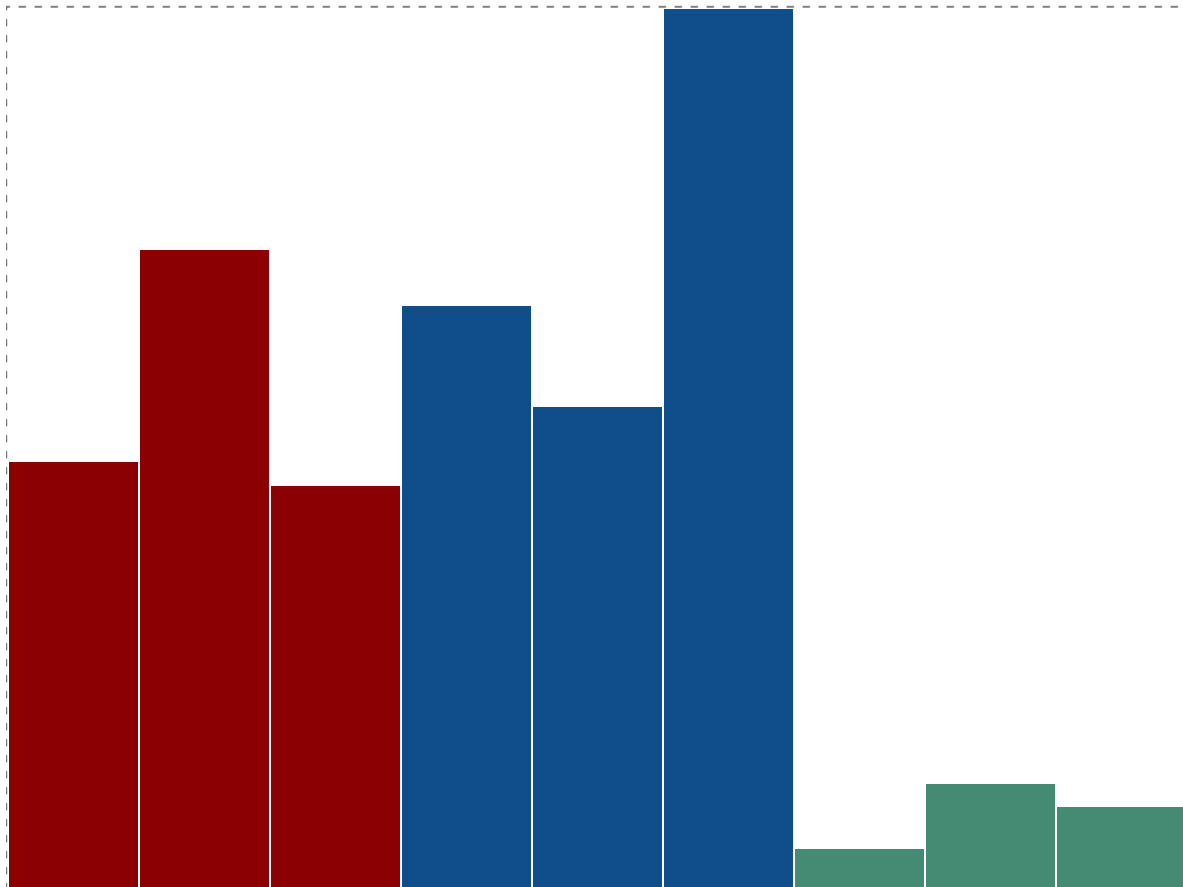
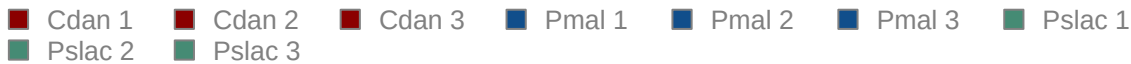
30S ribosomal protein S3

Counts

3000

2500

2000

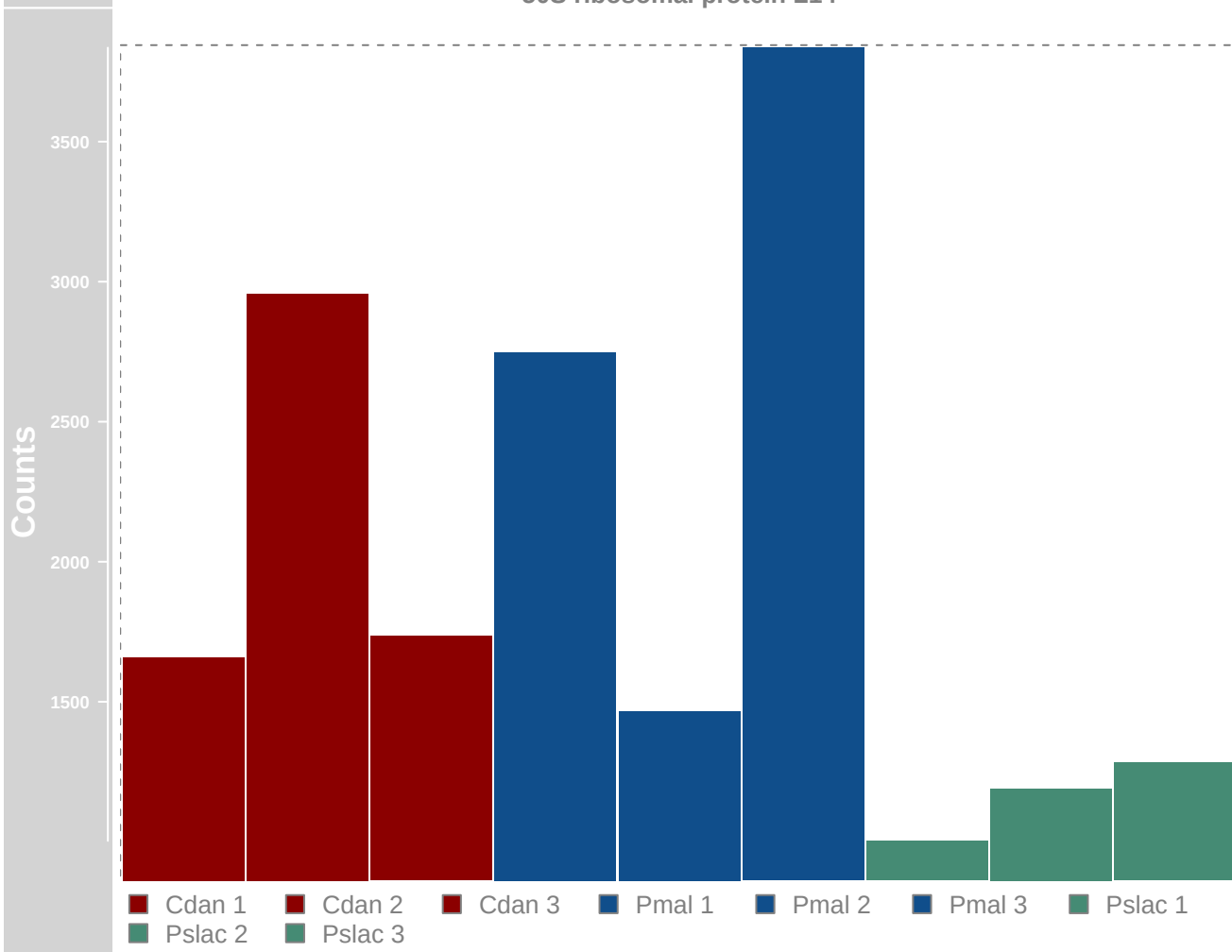


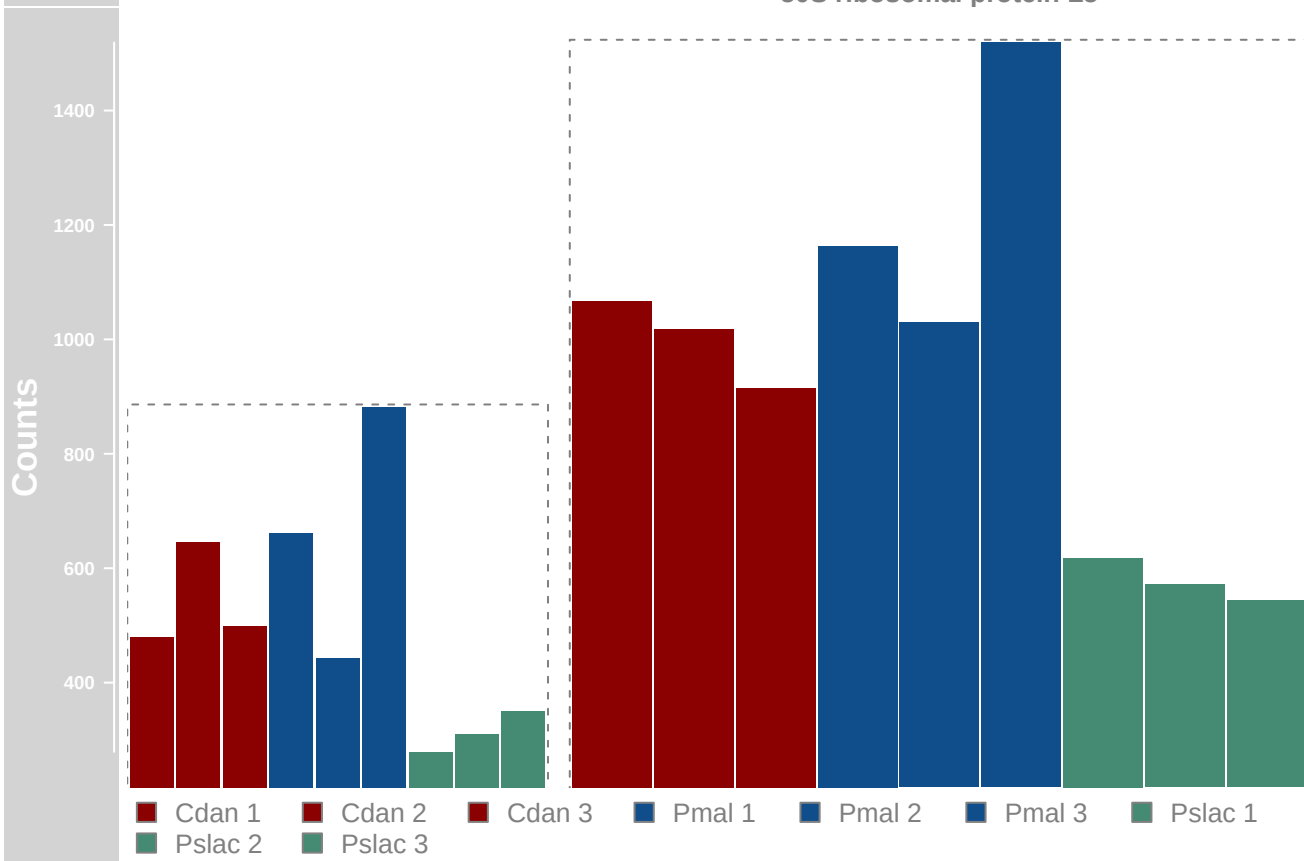
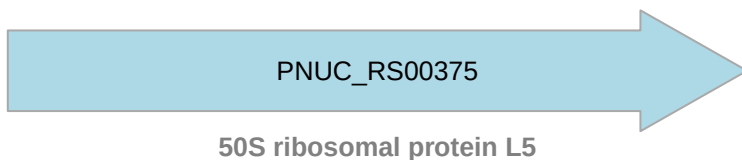
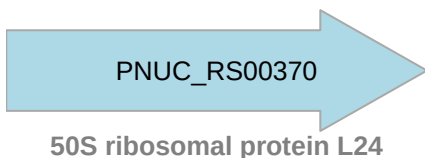
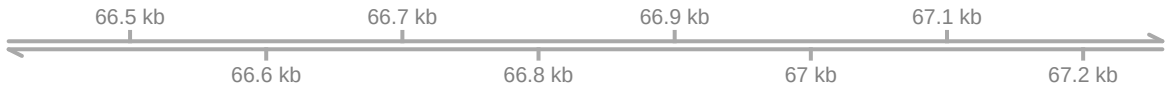


Genes +

PNUC_RS00365

50S ribosomal protein L14







Genes +

PNUC_RS00380

ribosomal protein S14

PNUC_RS00390

50S ribosomal protein L6

PNUC_RS00400

30S ribosomal protein S5

PNUC_RS00385

30S ribosomal protein S8

PNUC_RS00395

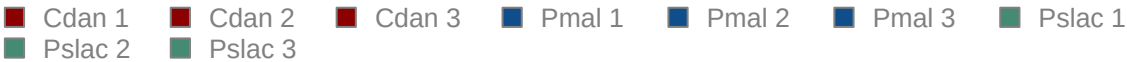
50S ribosomal protein L18

Counts

1500

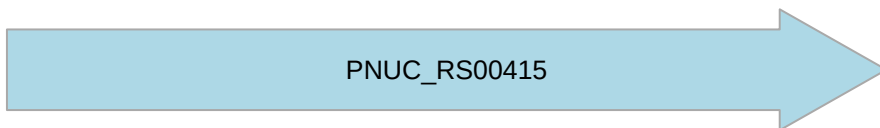
1000

500

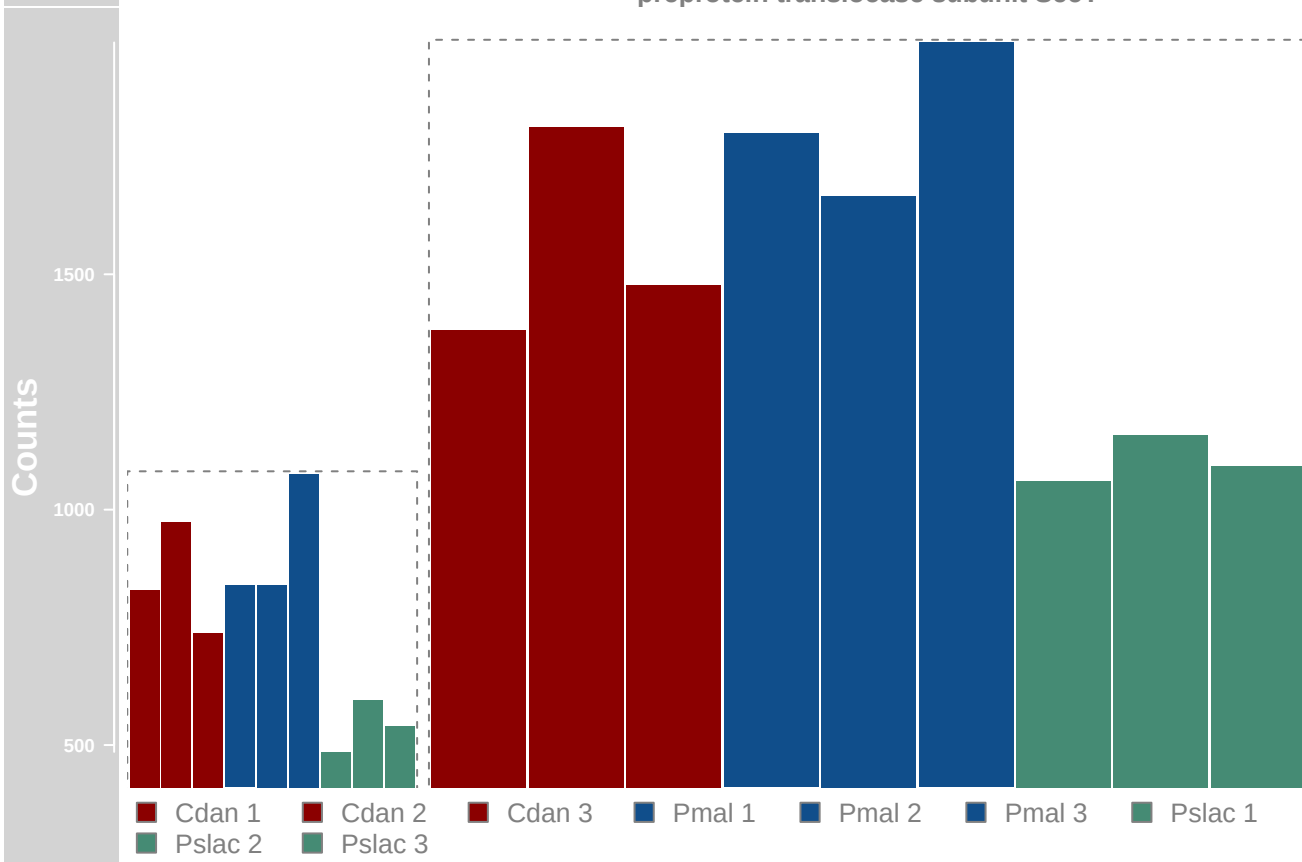




5S ribosomal protein L15



preprotein translocase subunit SecY





Genes +

PNUC_RS00490

iron donor protein CyaY

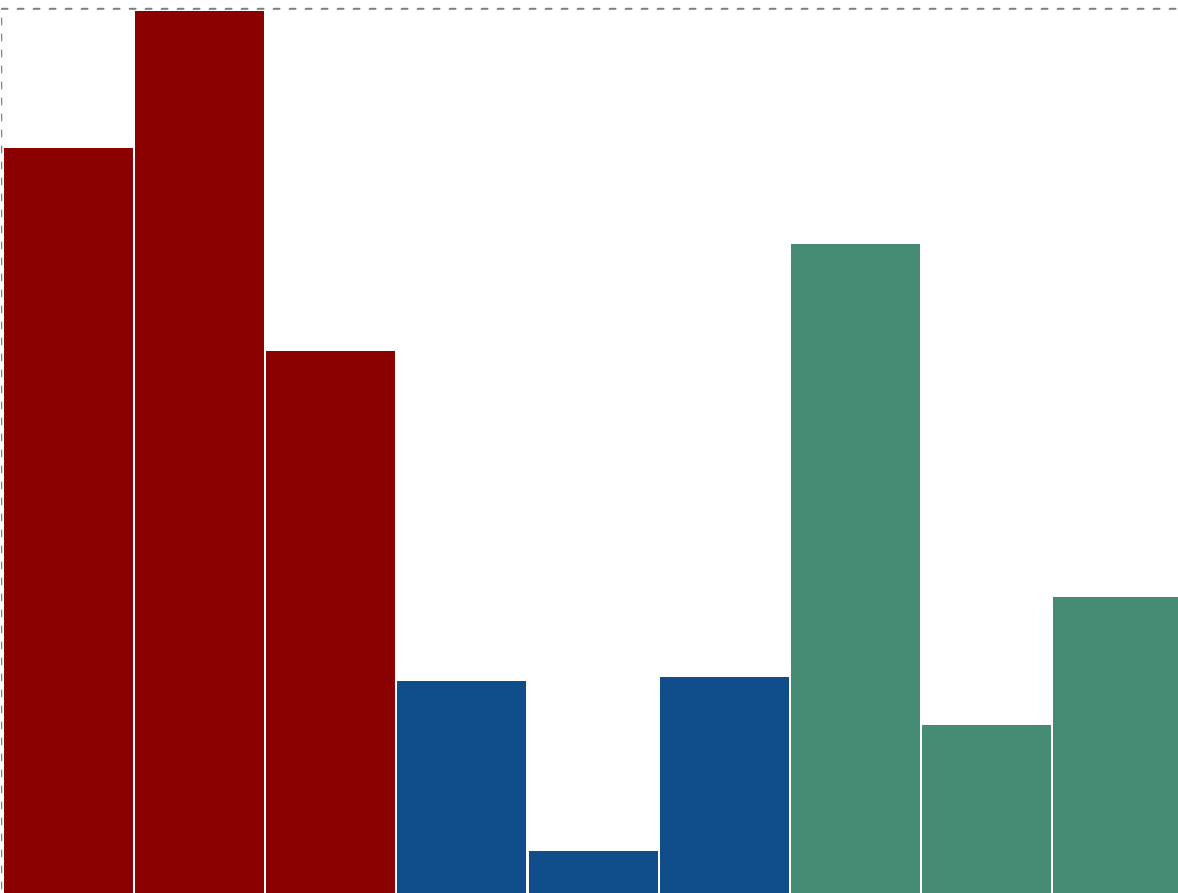
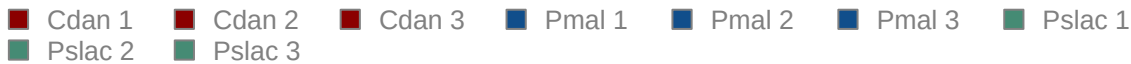
Counts

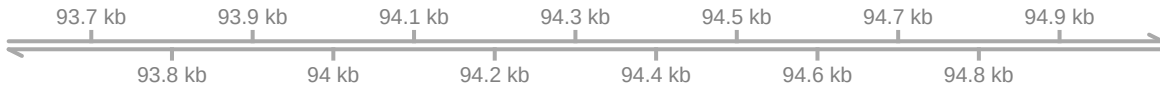
1200

1000

800

600



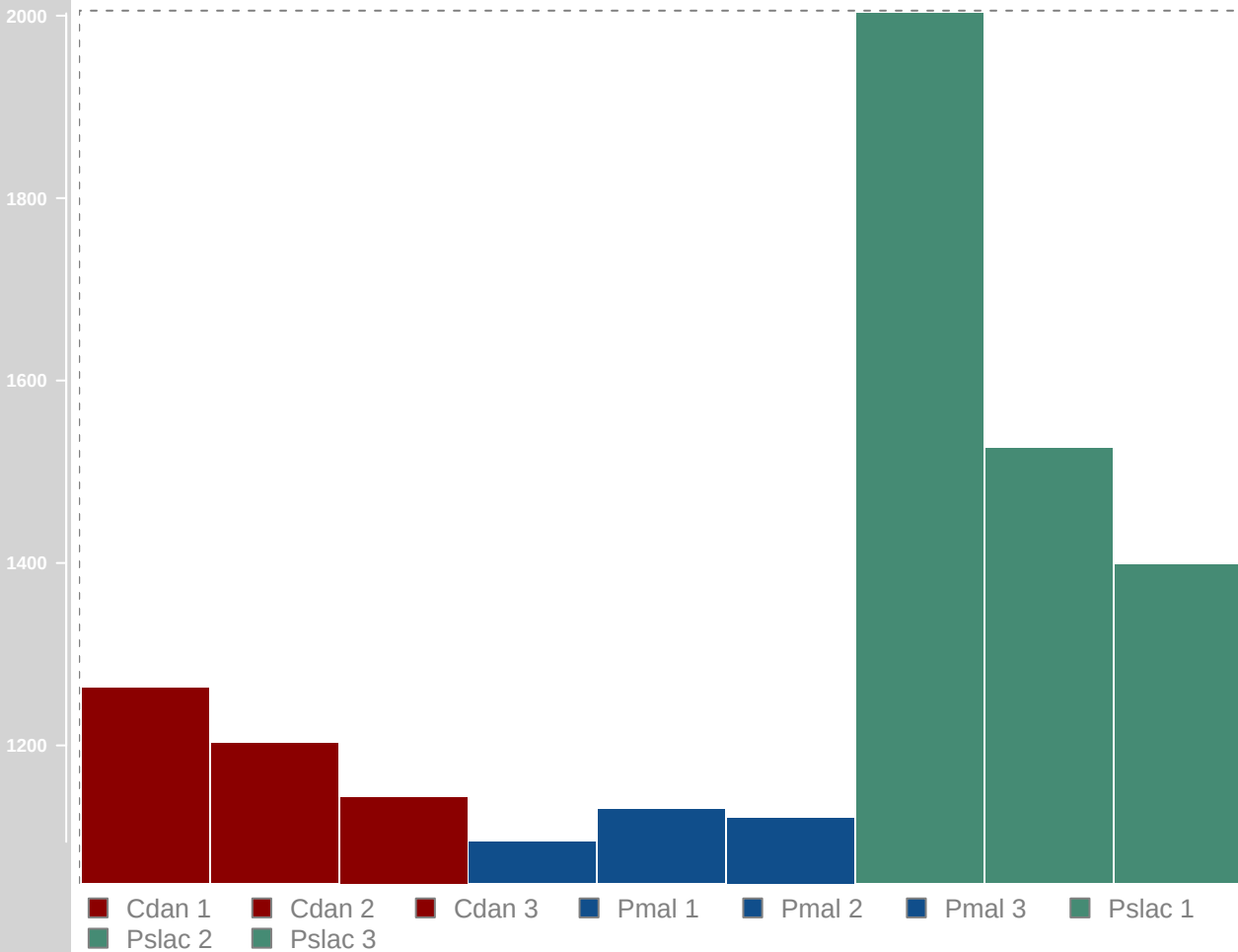


Genes +

PNUC_RS00530

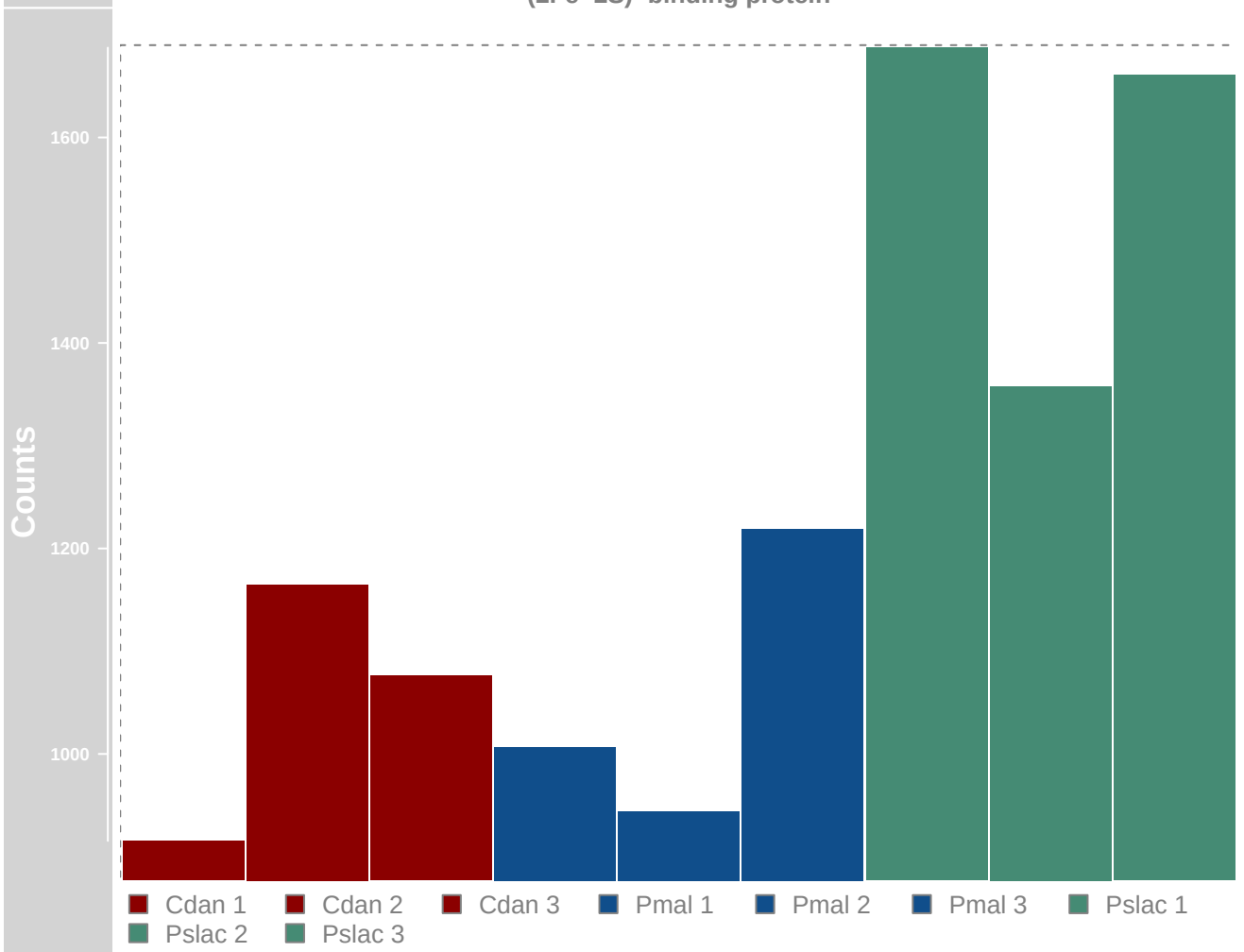
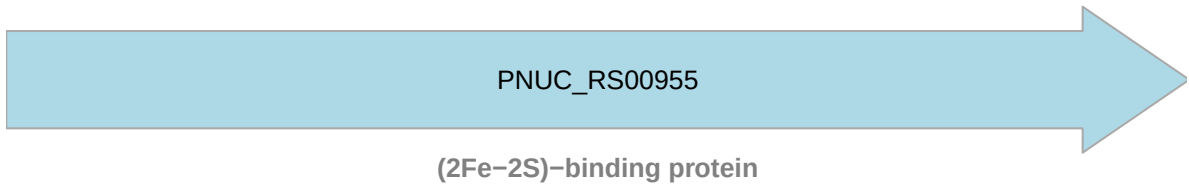
dihydropyrimidine dehydrogenase subunit A

Counts





Genes +

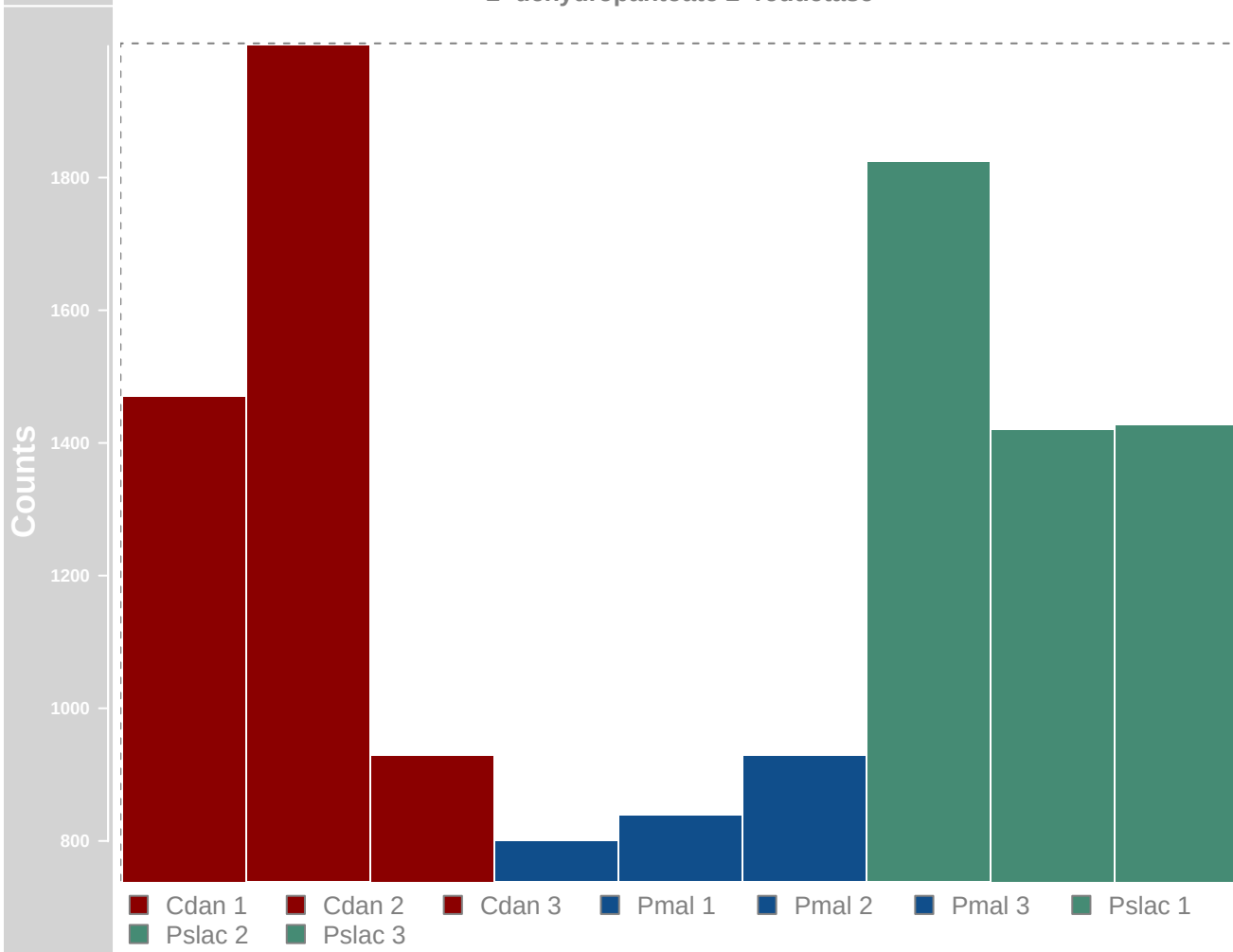




Genes +

PNUC_RS01025

2-dehydropantoate 2-reductase



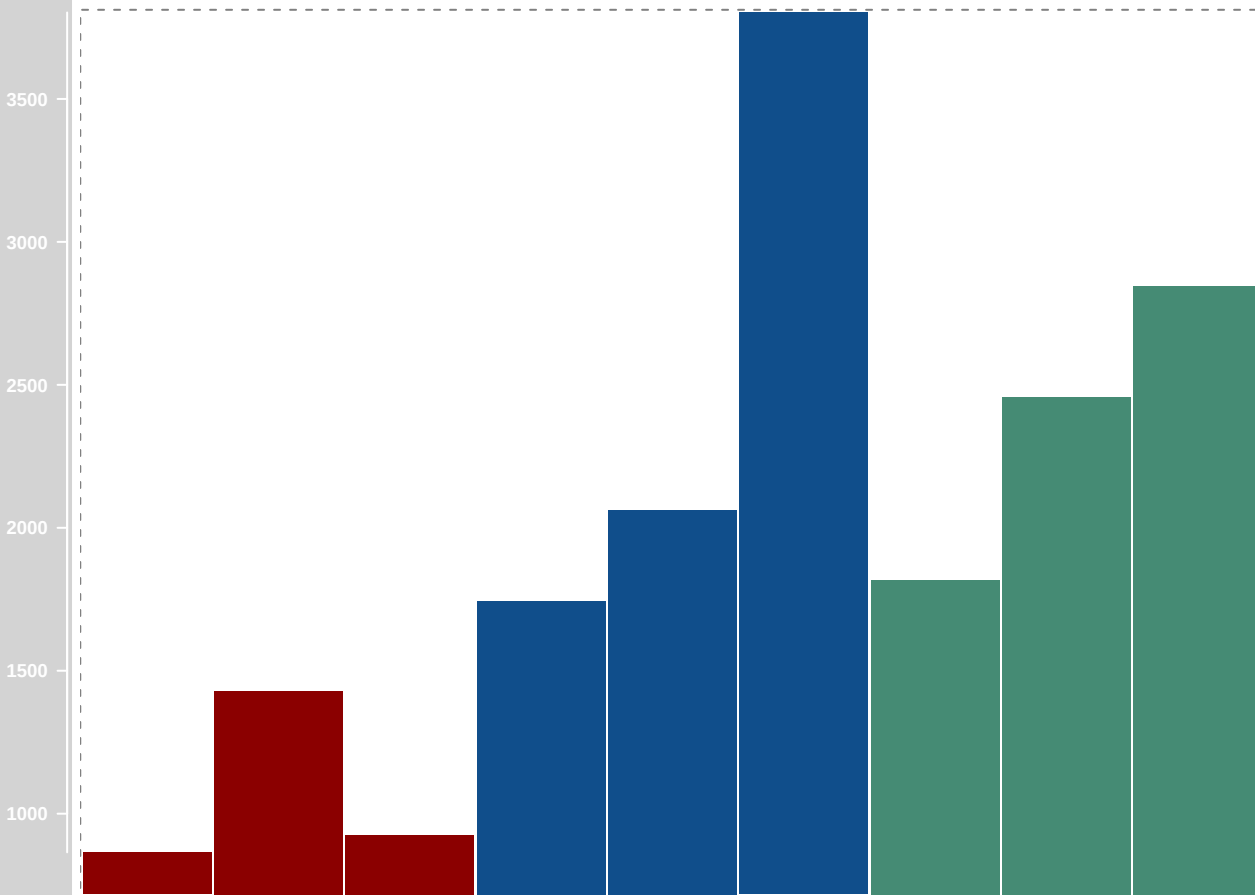


Genes +

PNUC_RS01560

high potential iron-sulfur protein

Counts



Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1
Pslac 2 Pslac 3

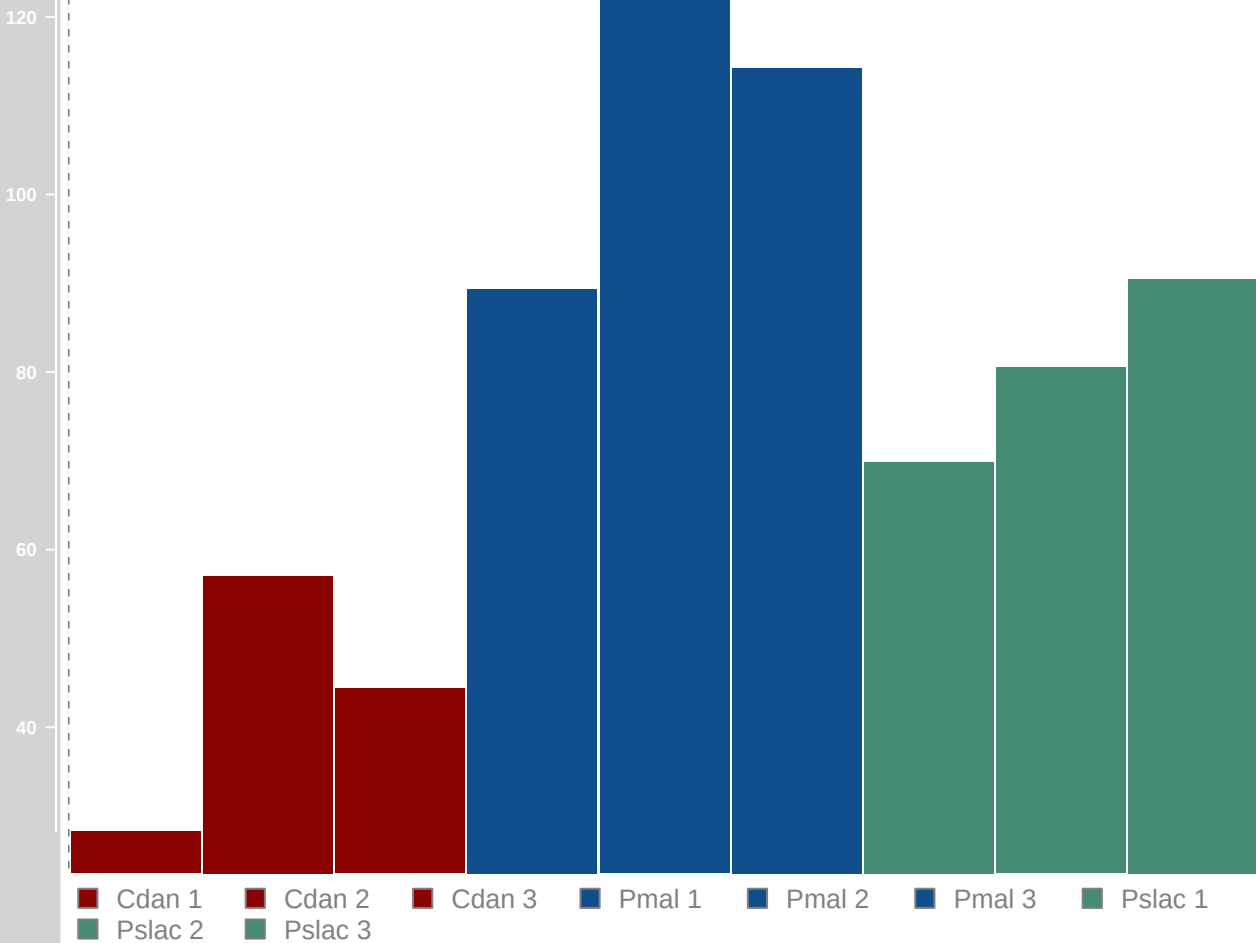


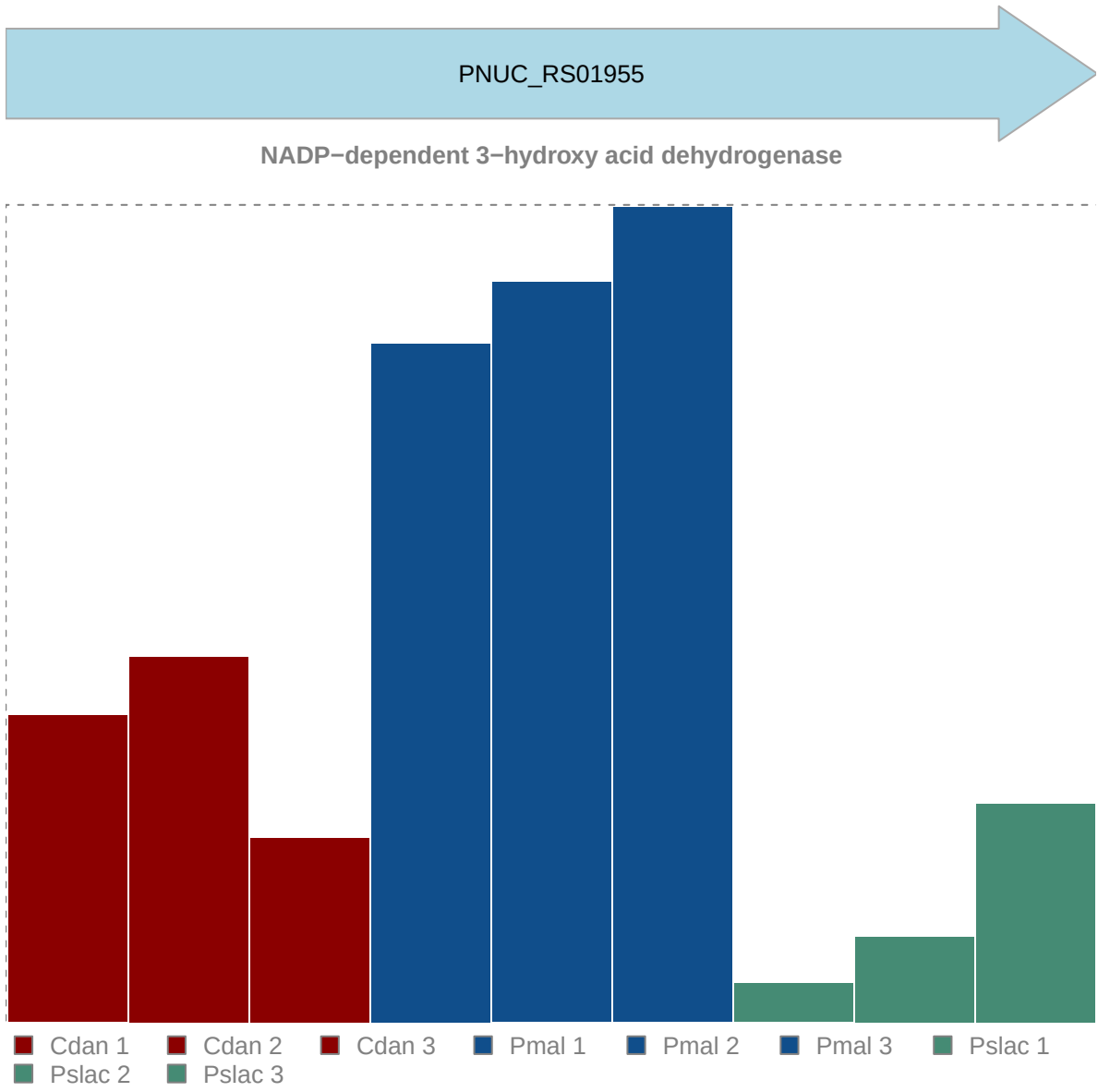
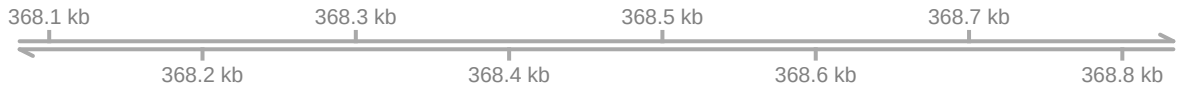
Genes +

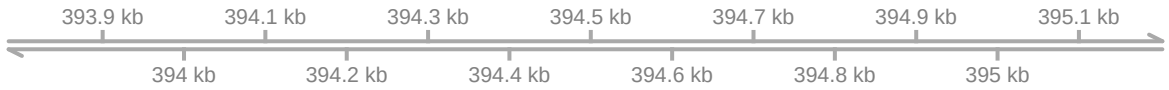
PNUC_RS10870

IS3 family transposase

Counts







Genes +

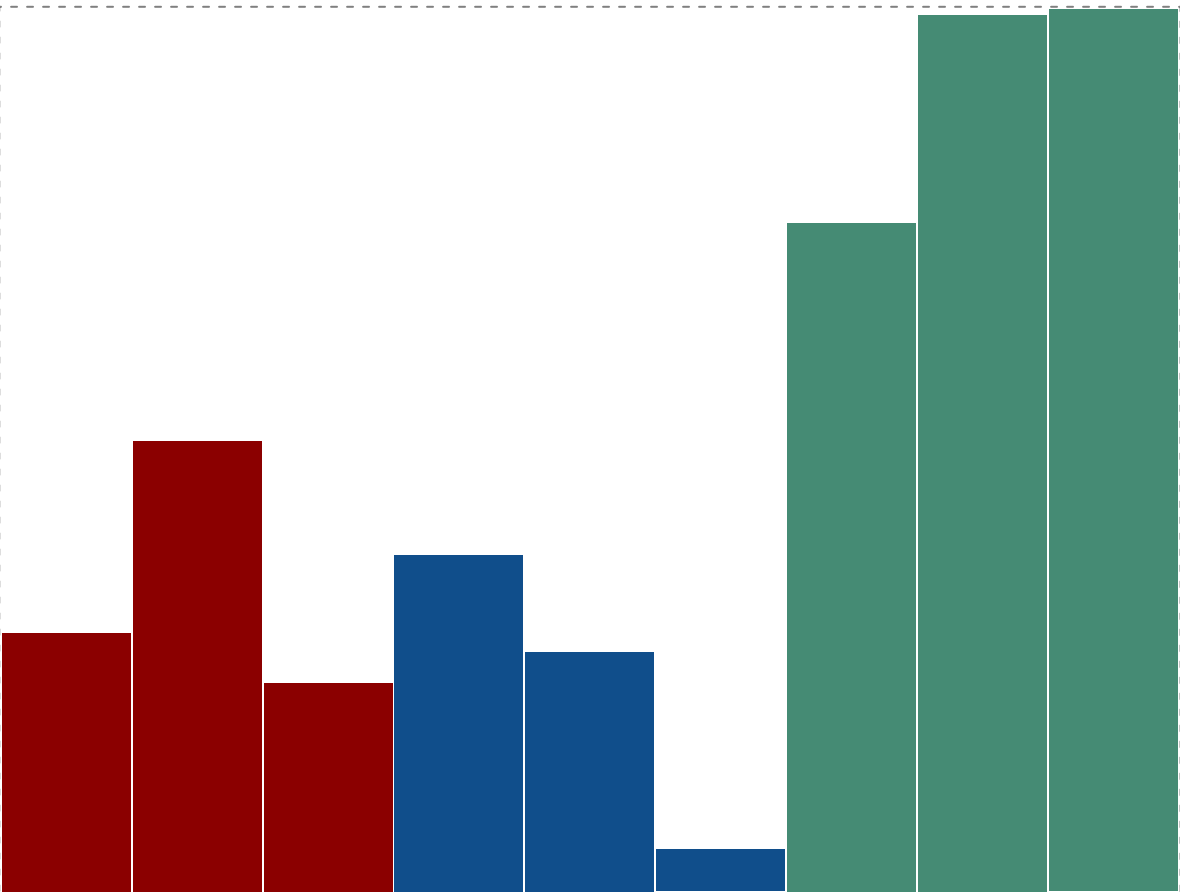
PNUC_RS02110

peptidase

Counts

2500

2000

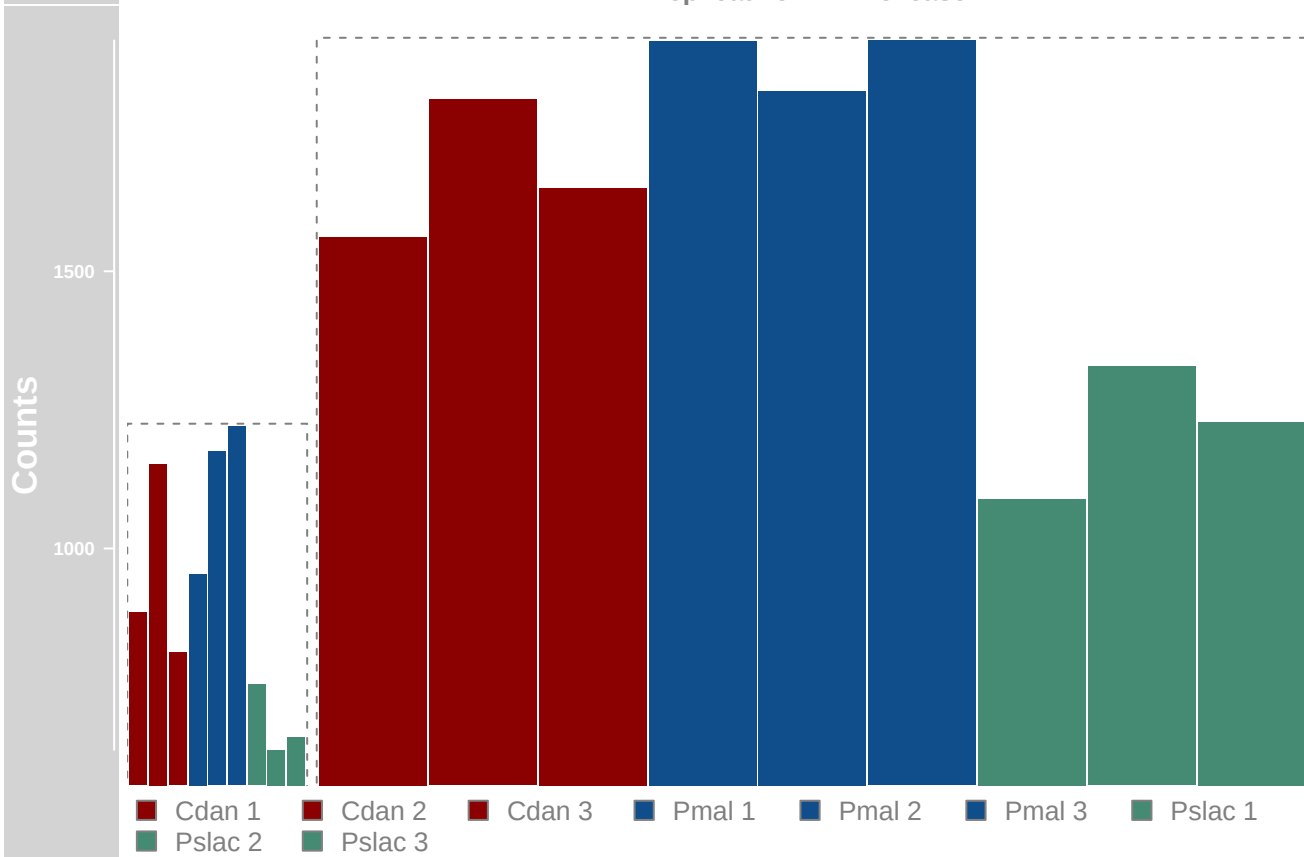


Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1 Pslac 2 Pslac 3



PNUC_RS02220
ribosomal protein L9

PNUC_RS02225
replicative DNA helicase

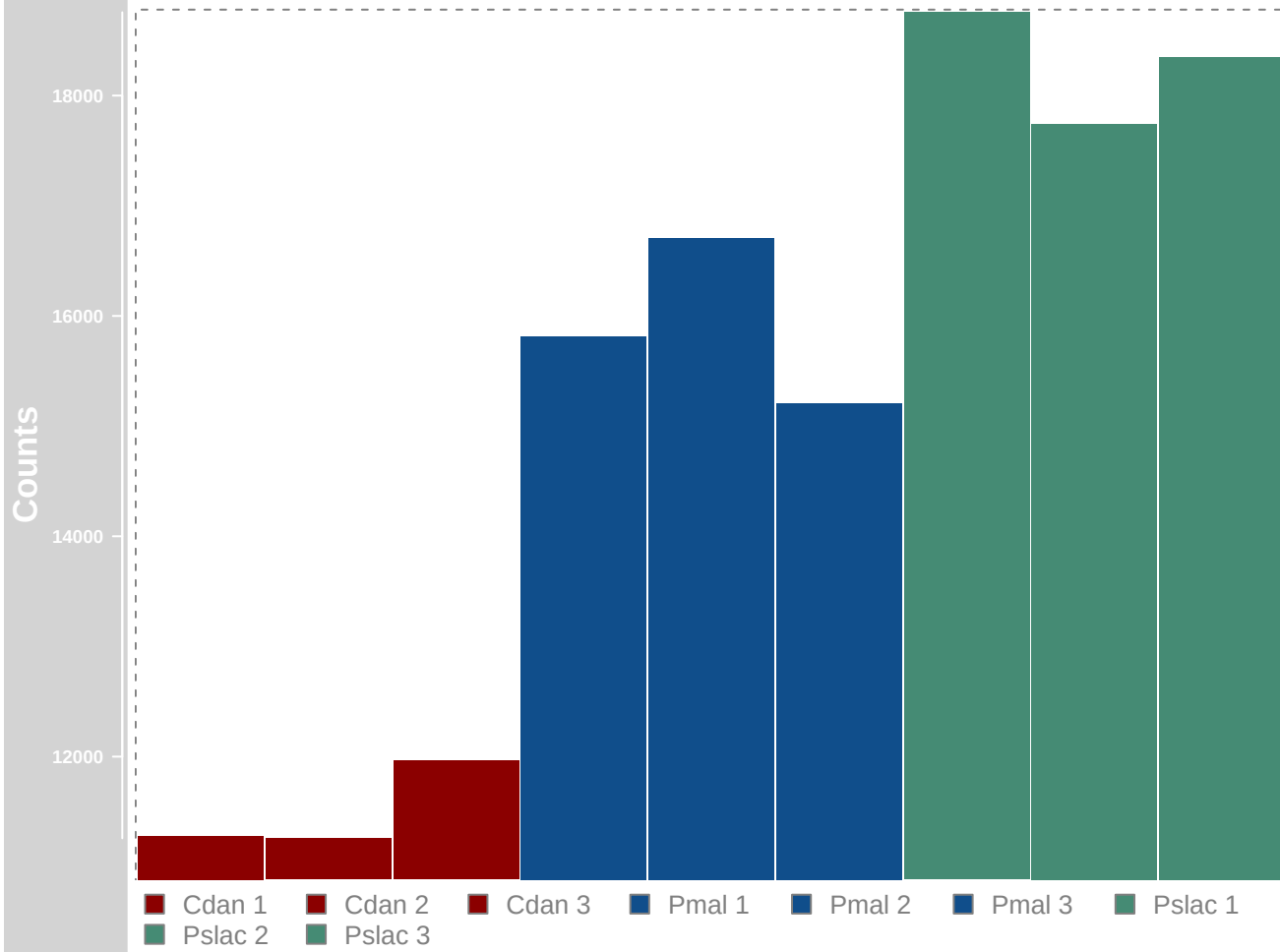


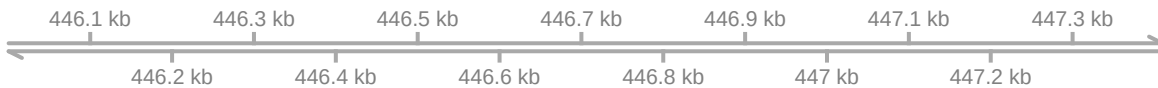


Genes +

PNUC_RS02345

ATP-dependent chaperone ClpB



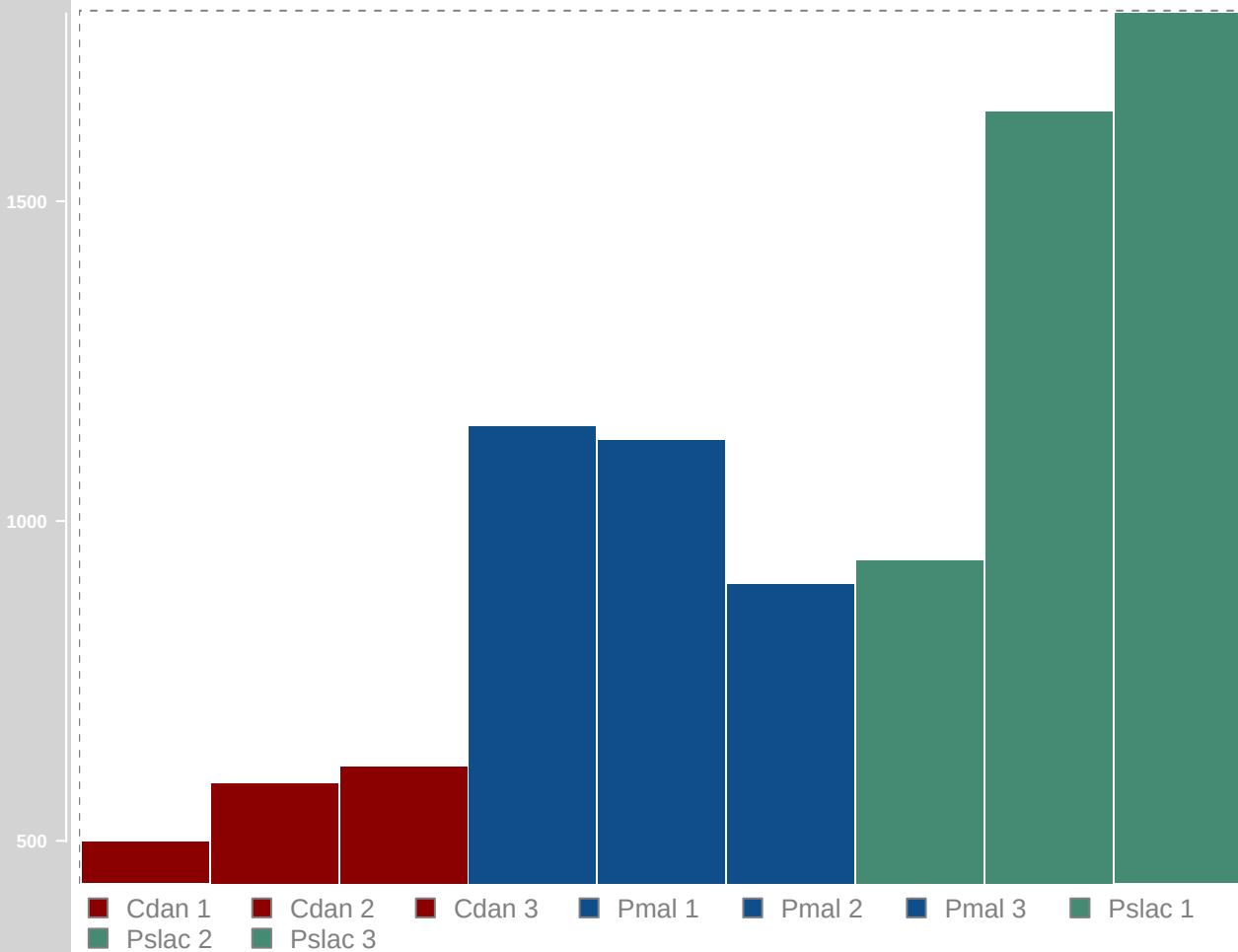


Genes +

PNUC_RS02375

cytochrome c oxidase, cbb3-type subunit I

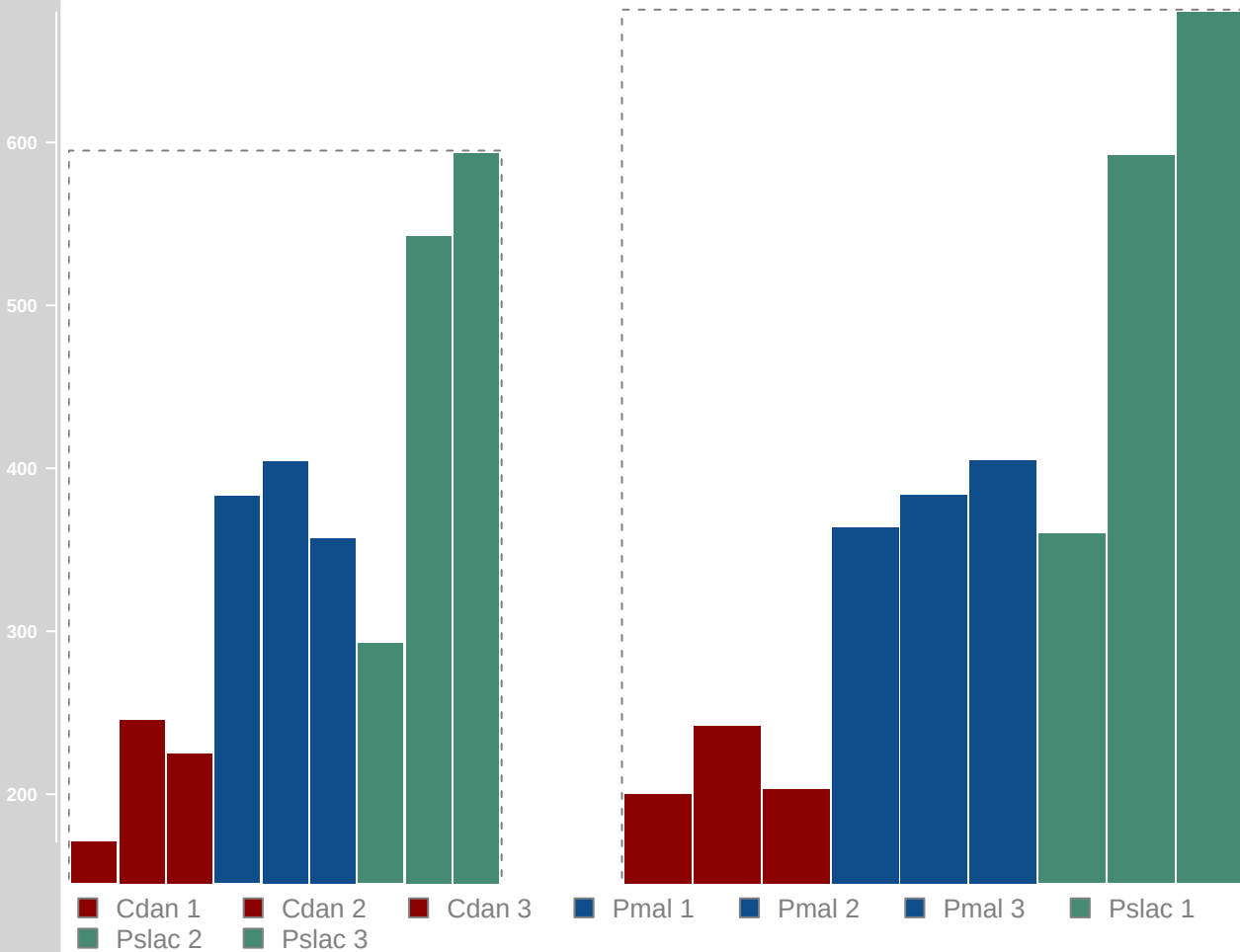
Counts





Genes +

Counts



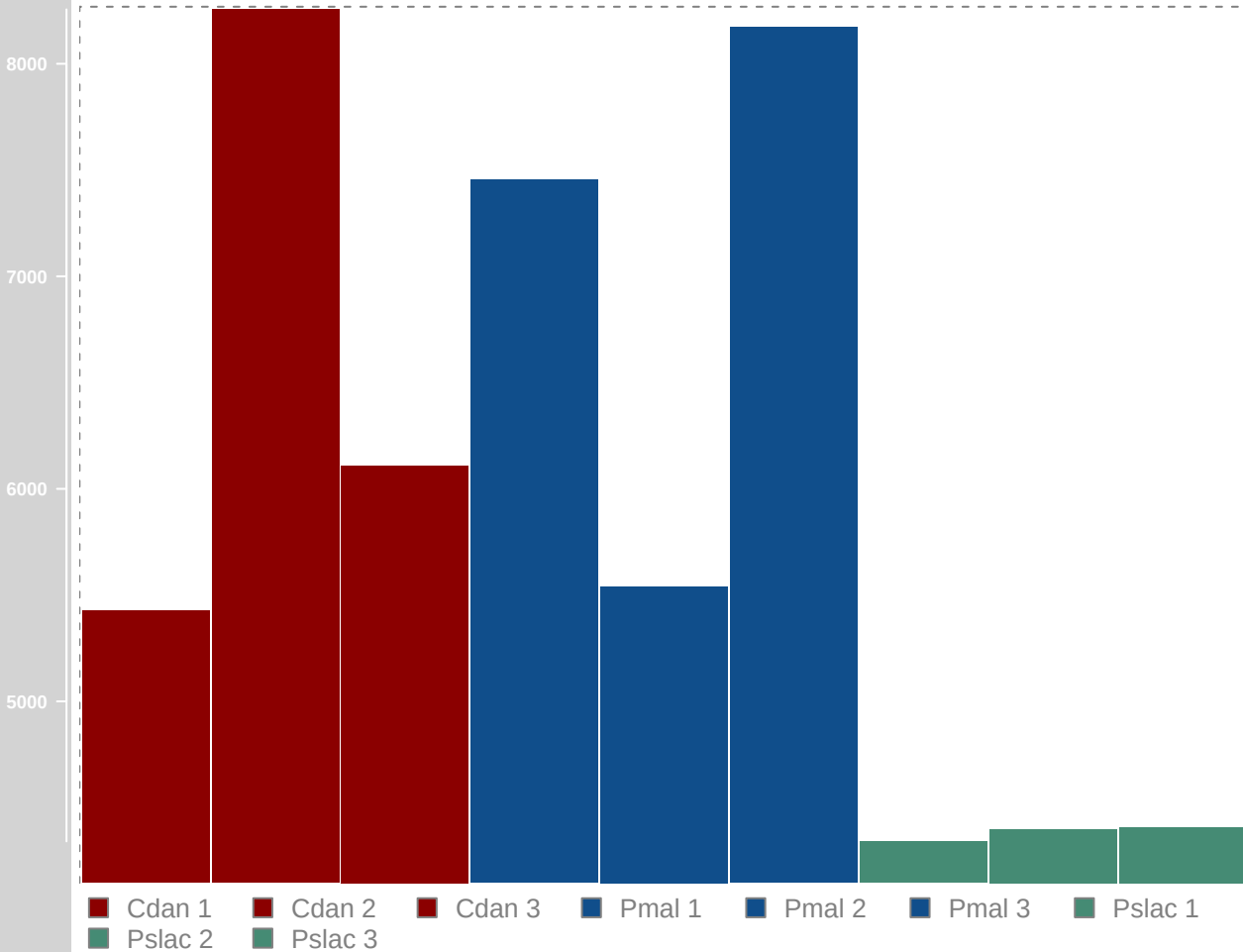


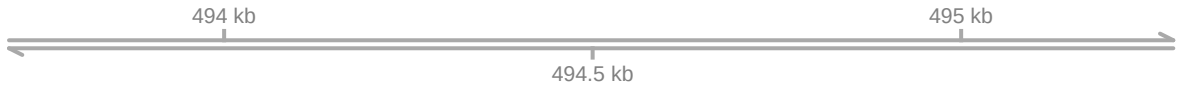
Genes +

PNUC_RS02610

30S ribosomal protein S1

Counts



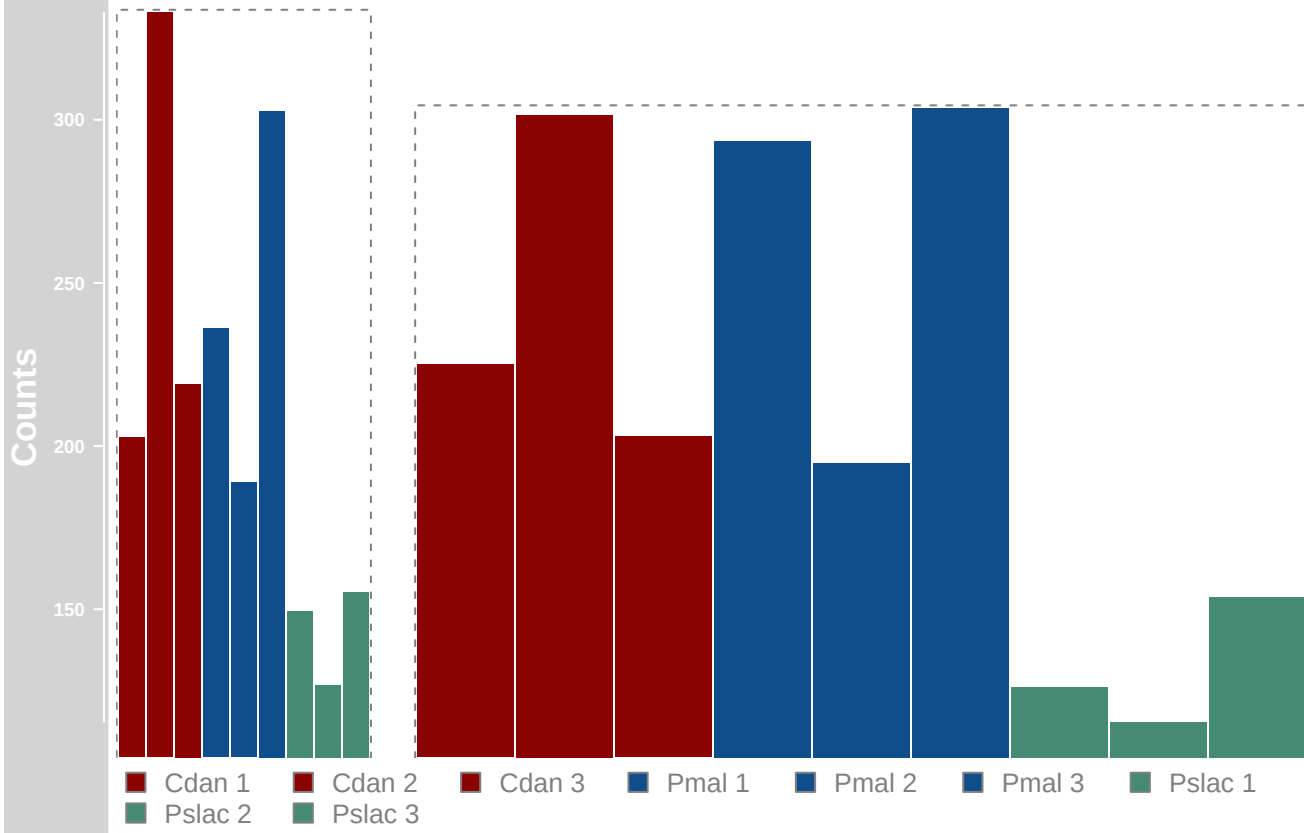


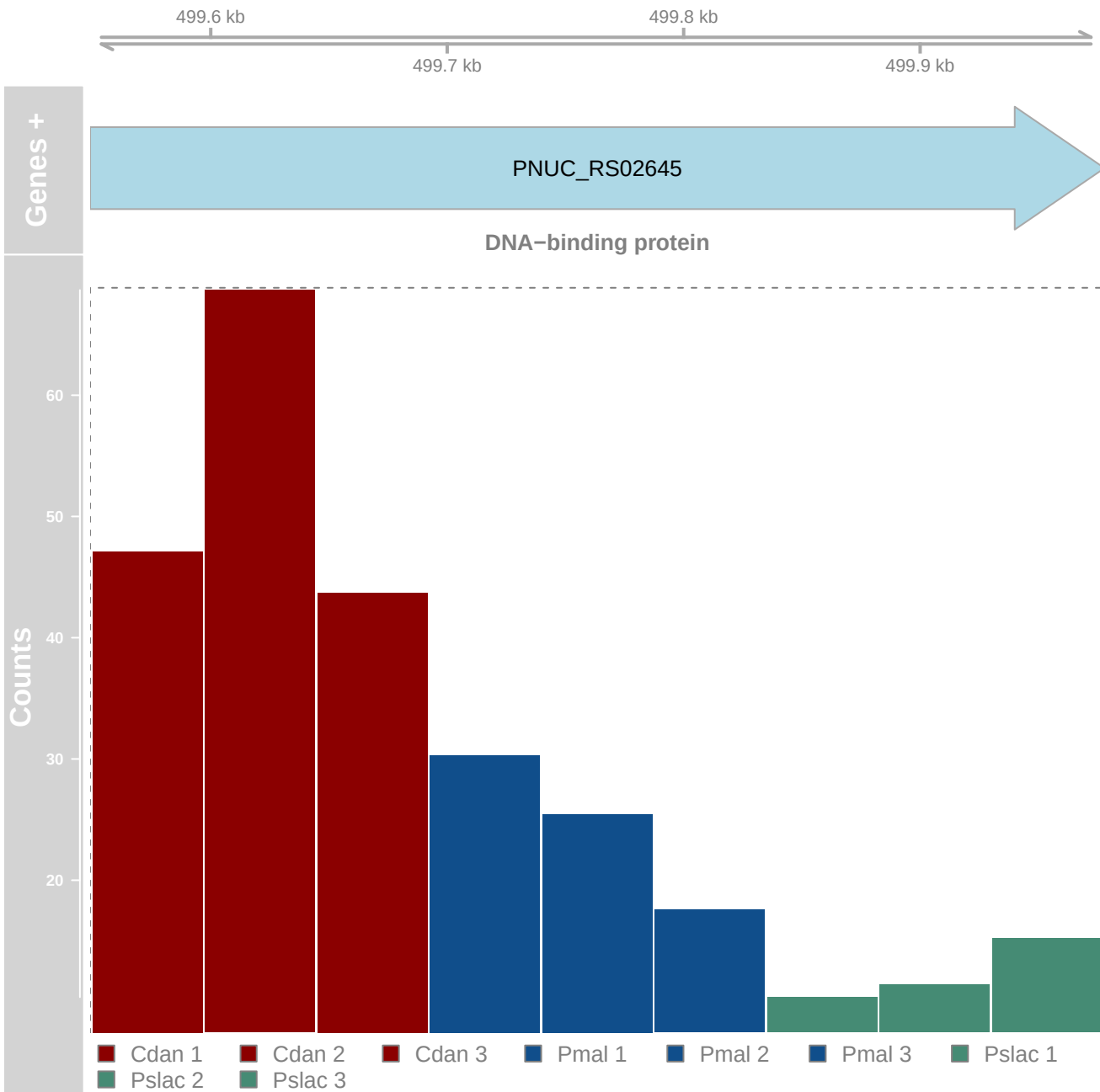
PNUC_RS02615

ion host factor subunit beta

PNUC_RS02620

lipopolysaccharide assembly protein LapB







Genes +

PNUC_RS02710

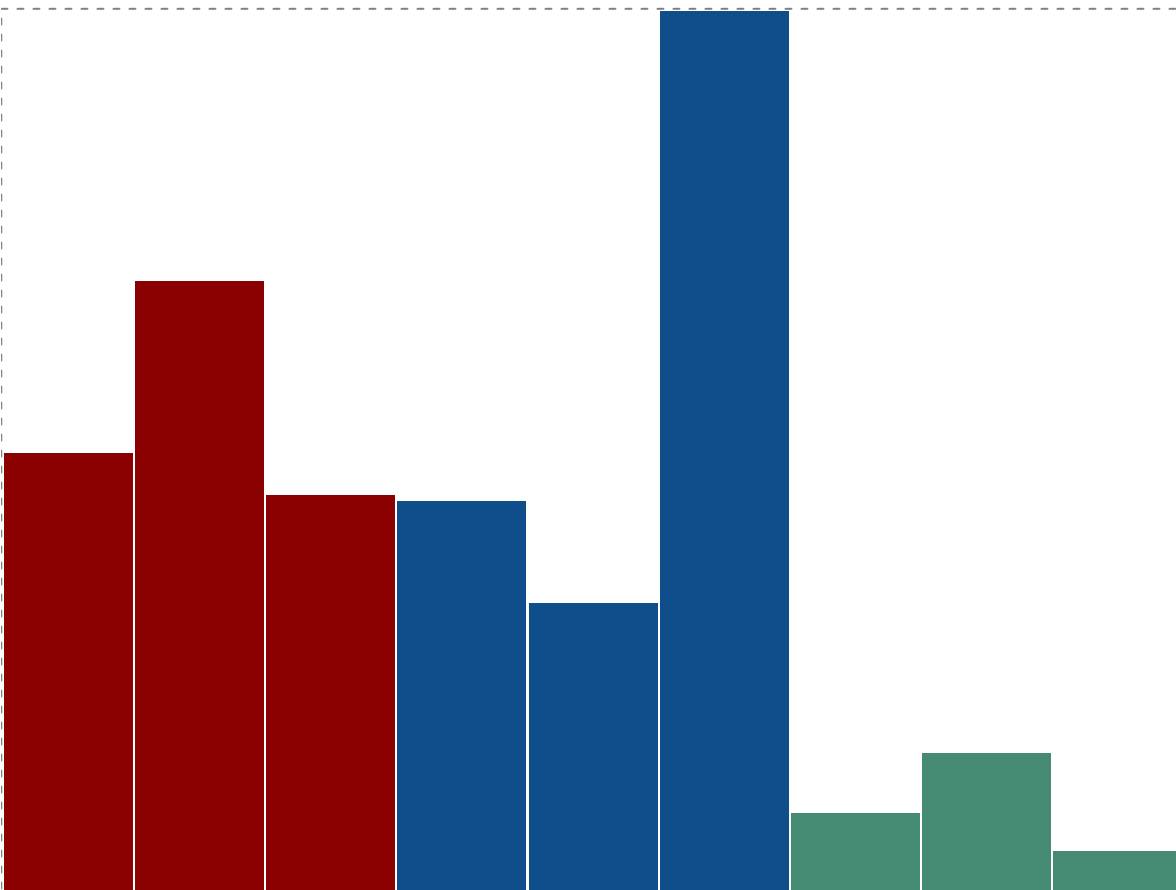
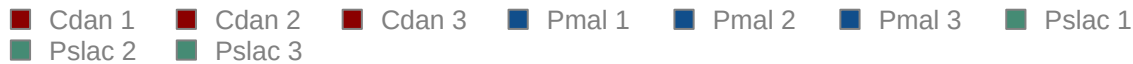
50S ribosomal protein L19

Counts

2500

2000

1500





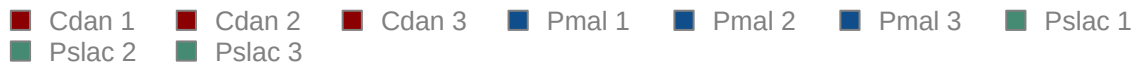
Genes +

PNUC_RS02750

ABC transporter substrate-binding protein

Counts

1400
1200
1000





Genes +

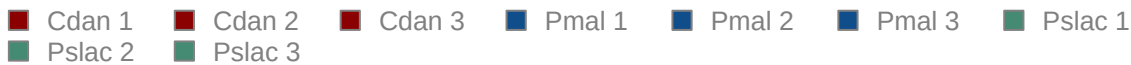
le protein

PNUC_RS02790

cation acetate symporter

Counts

5000
4000
3000
2000

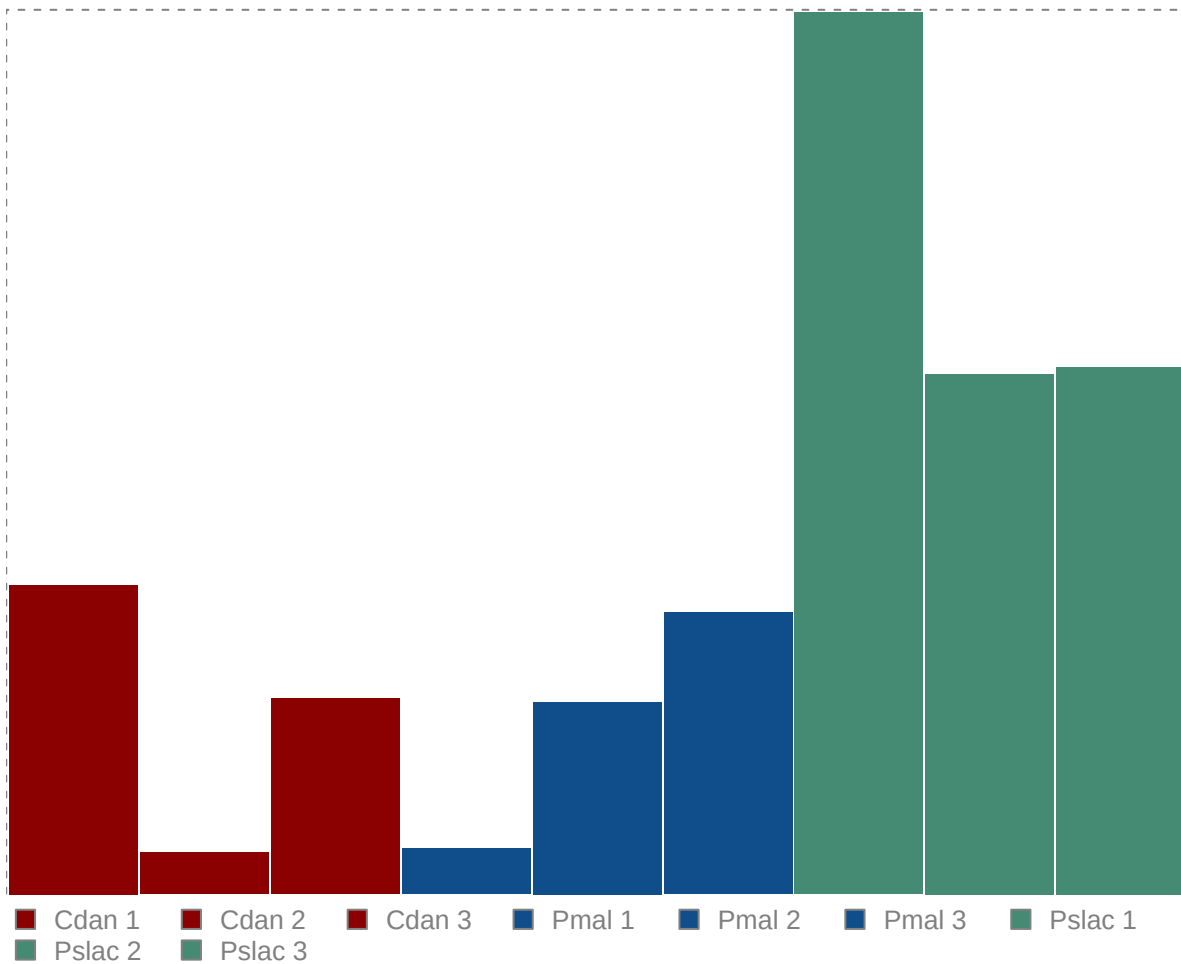


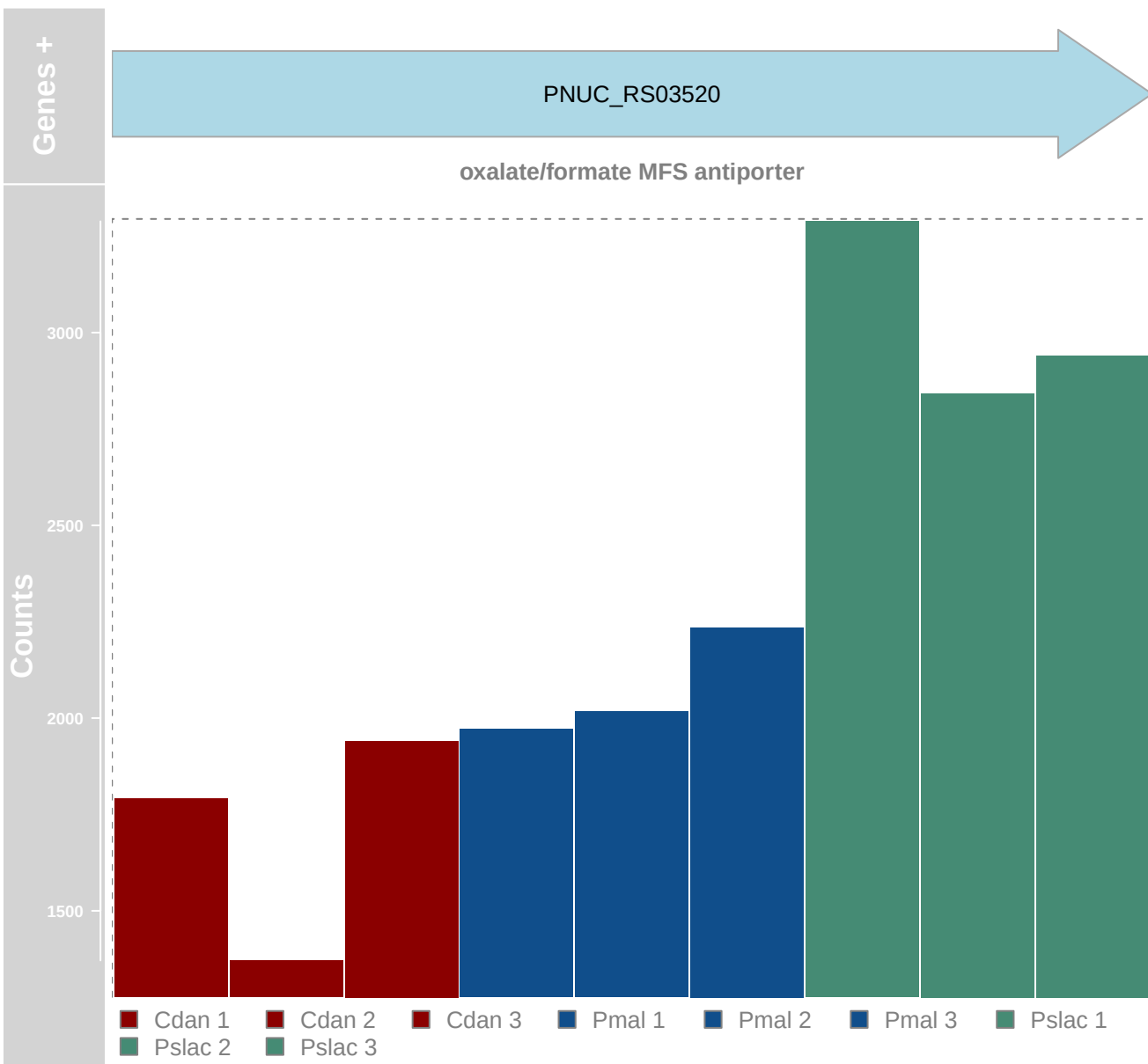
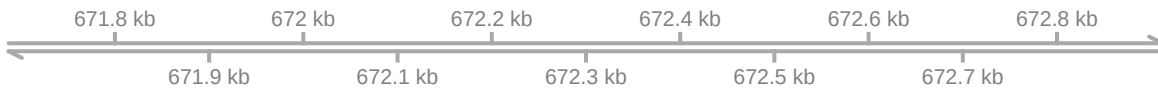


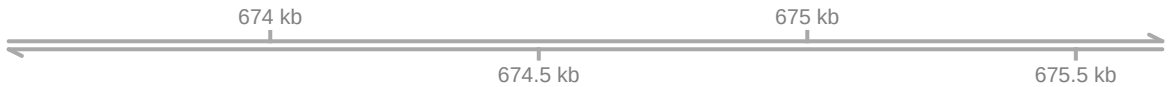
Genes +

PNUC_RS03355

choloylglycine hydrolase





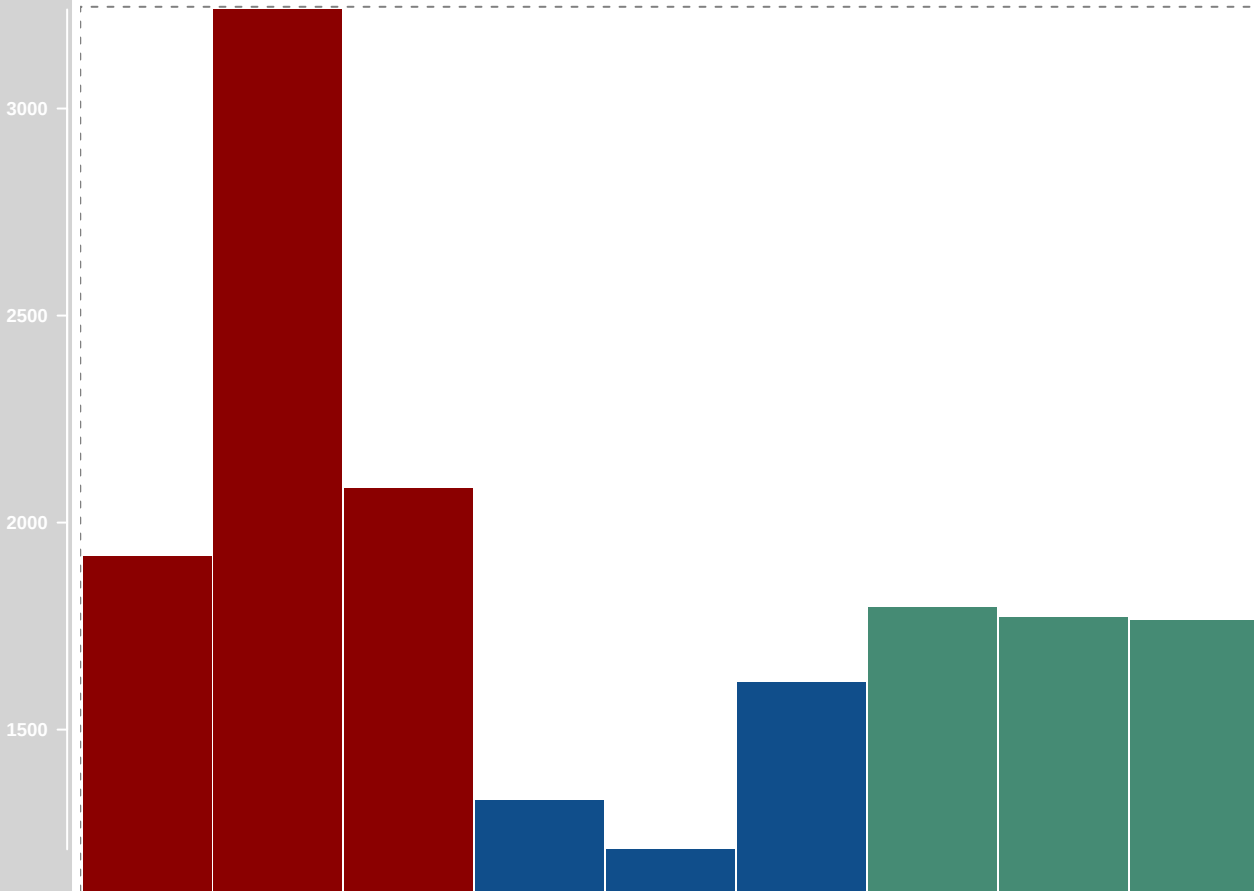


Genes +

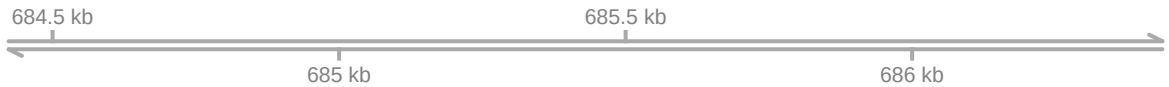
PNUC_RS03530

TonB-dependent receptor

Counts



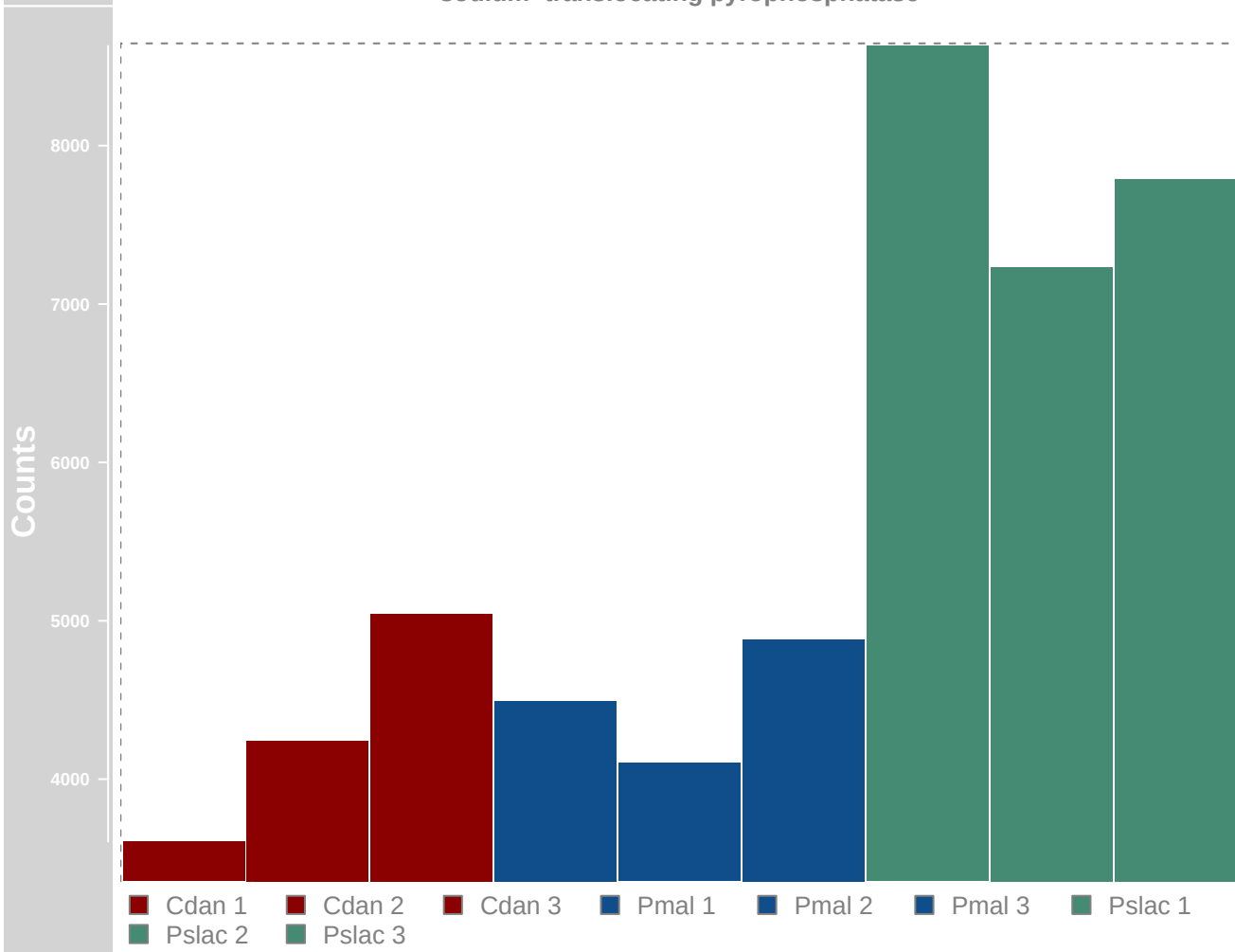
Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1 Pslac 2 Pslac 3

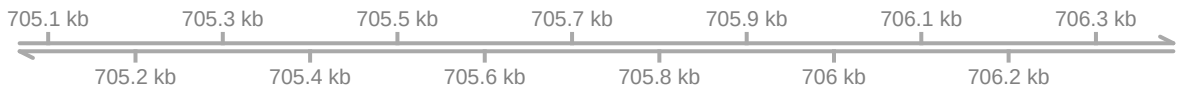


Genes +

PNUC_RS03580

sodium-translocating pyrophosphatase

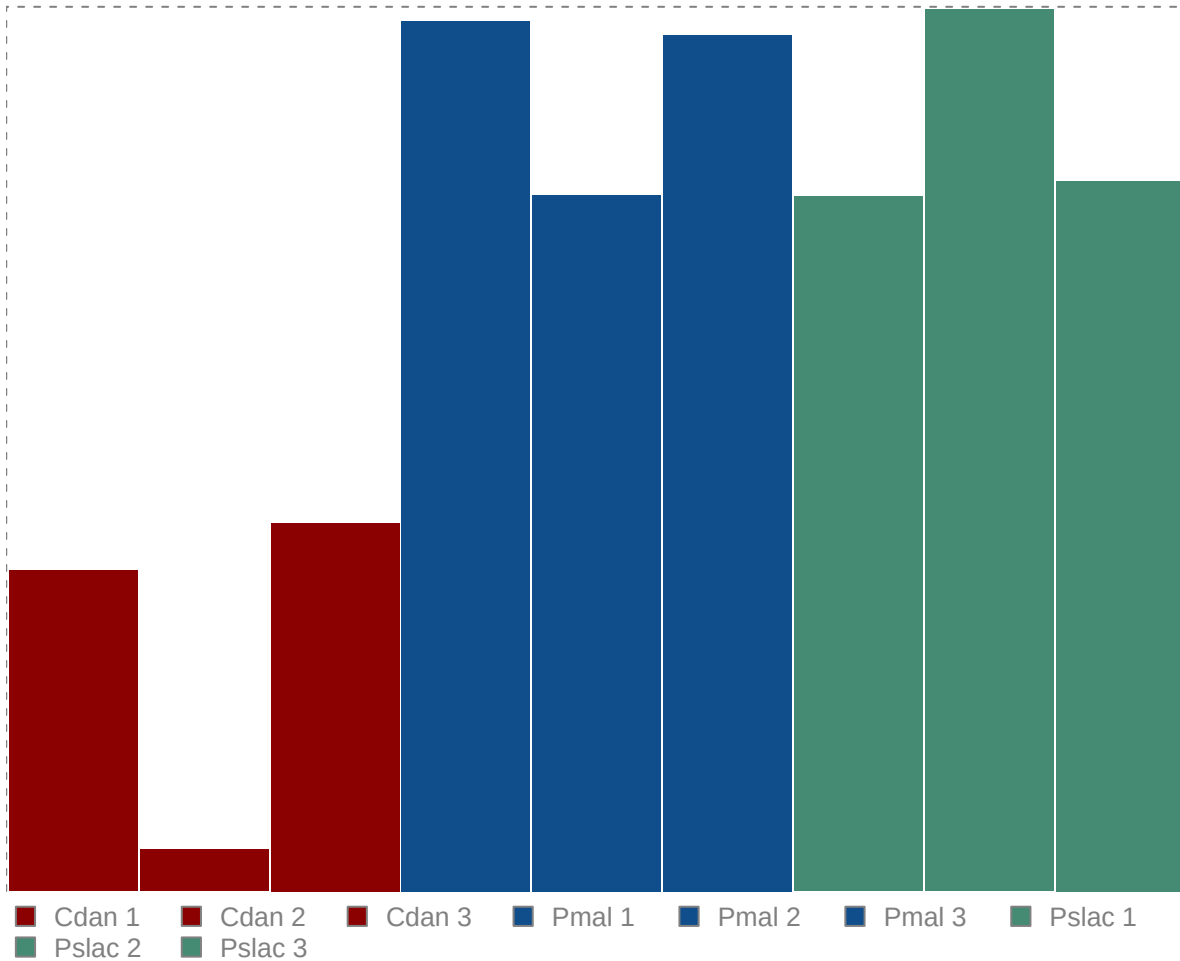




Genes +

PNUC_RS03685

DNA-directed DNA polymerase





Genes +

PNUC_RS04105

hypothetical protein

Counts

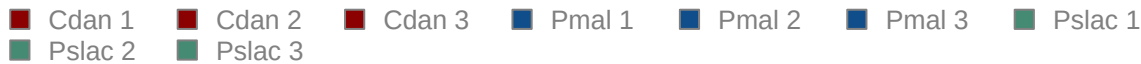
600

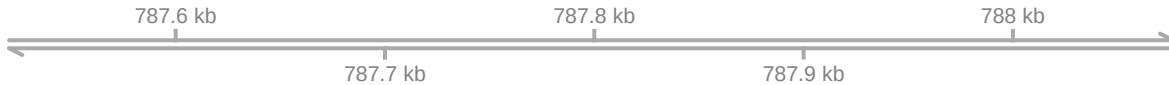
500

400

300

200





Genes +

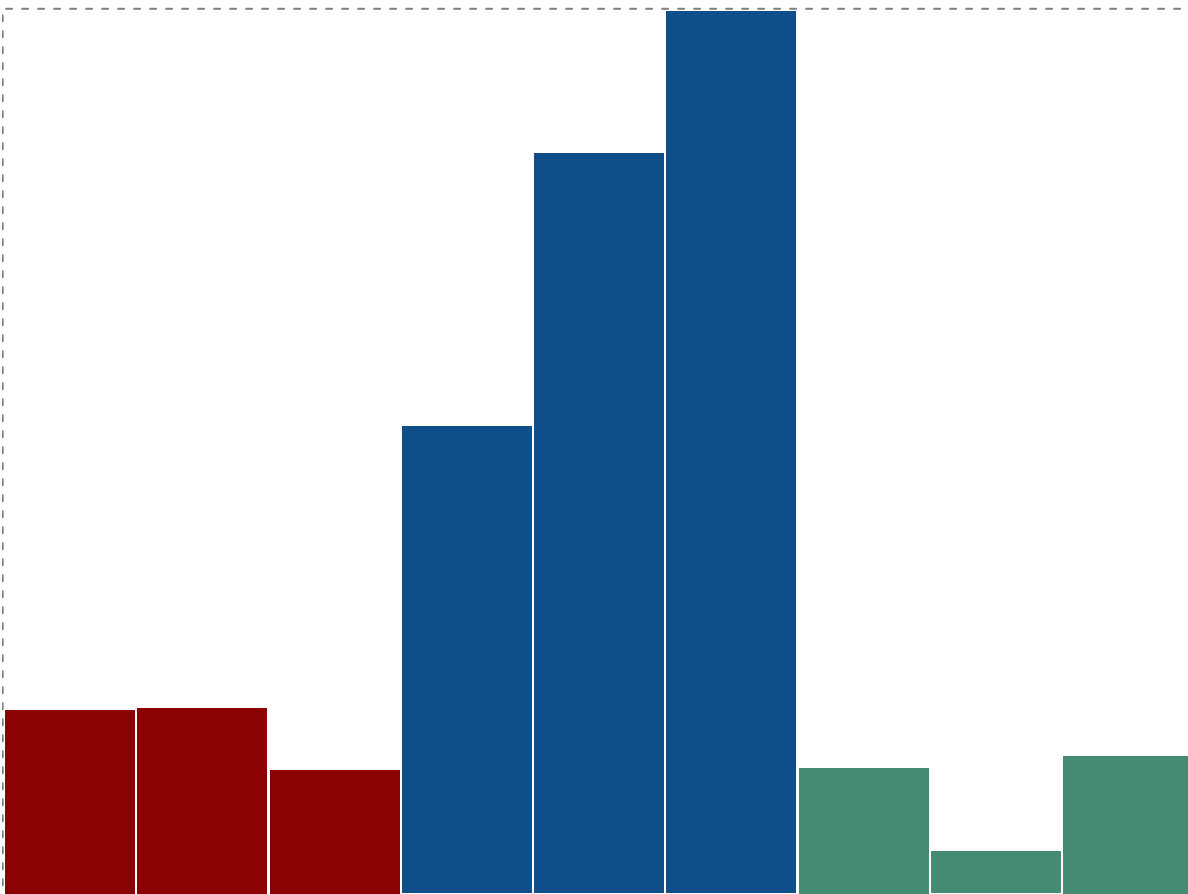
PNUC_RS04110

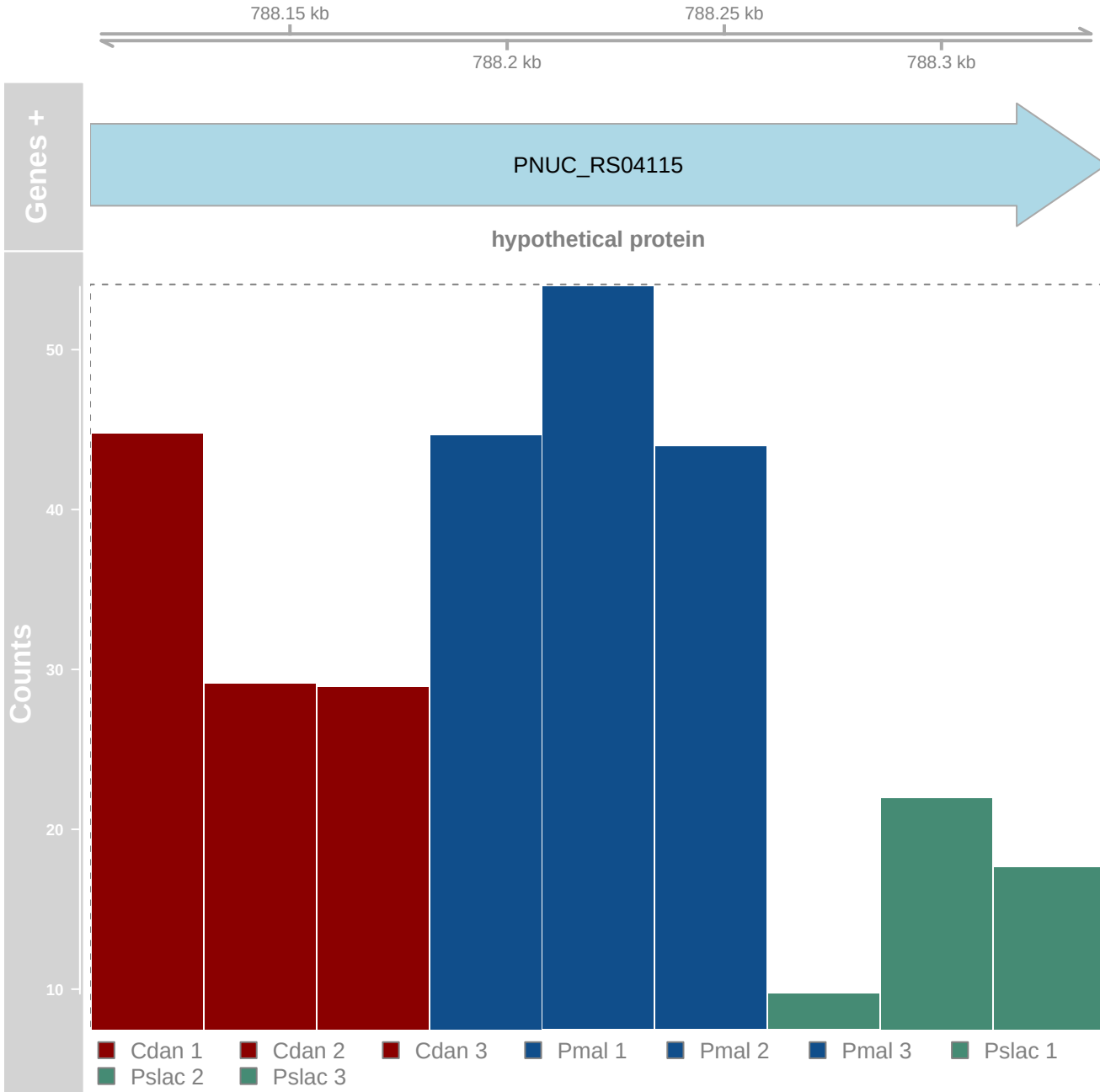
rhodanese domain-containing protein

Counts

160
140
120
100
80
60

Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1
Pslac 2 Pslac 3







Genes +

PNUC_RS04125

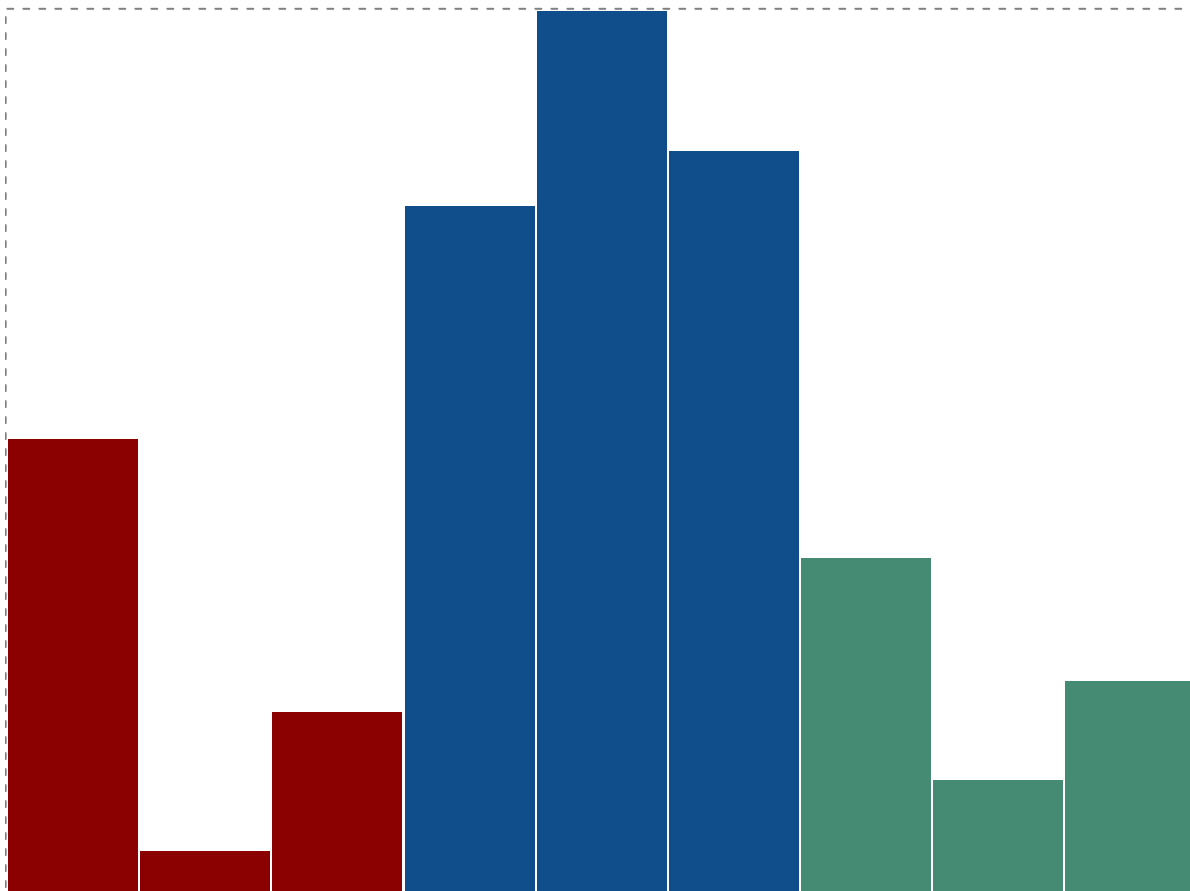
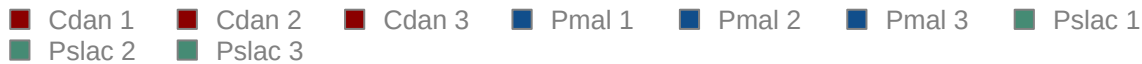
rhodanese domain-containing protein

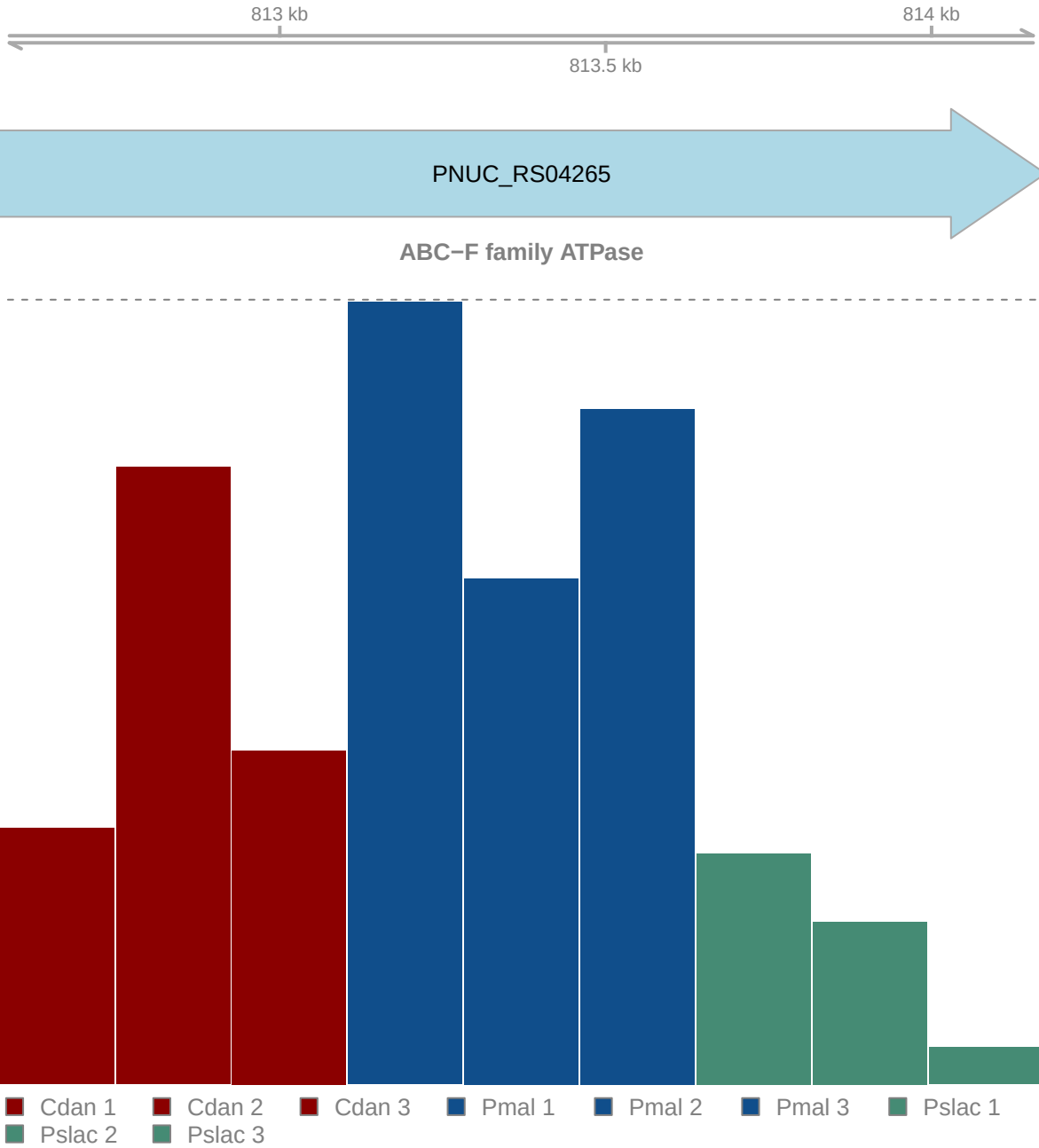
Counts

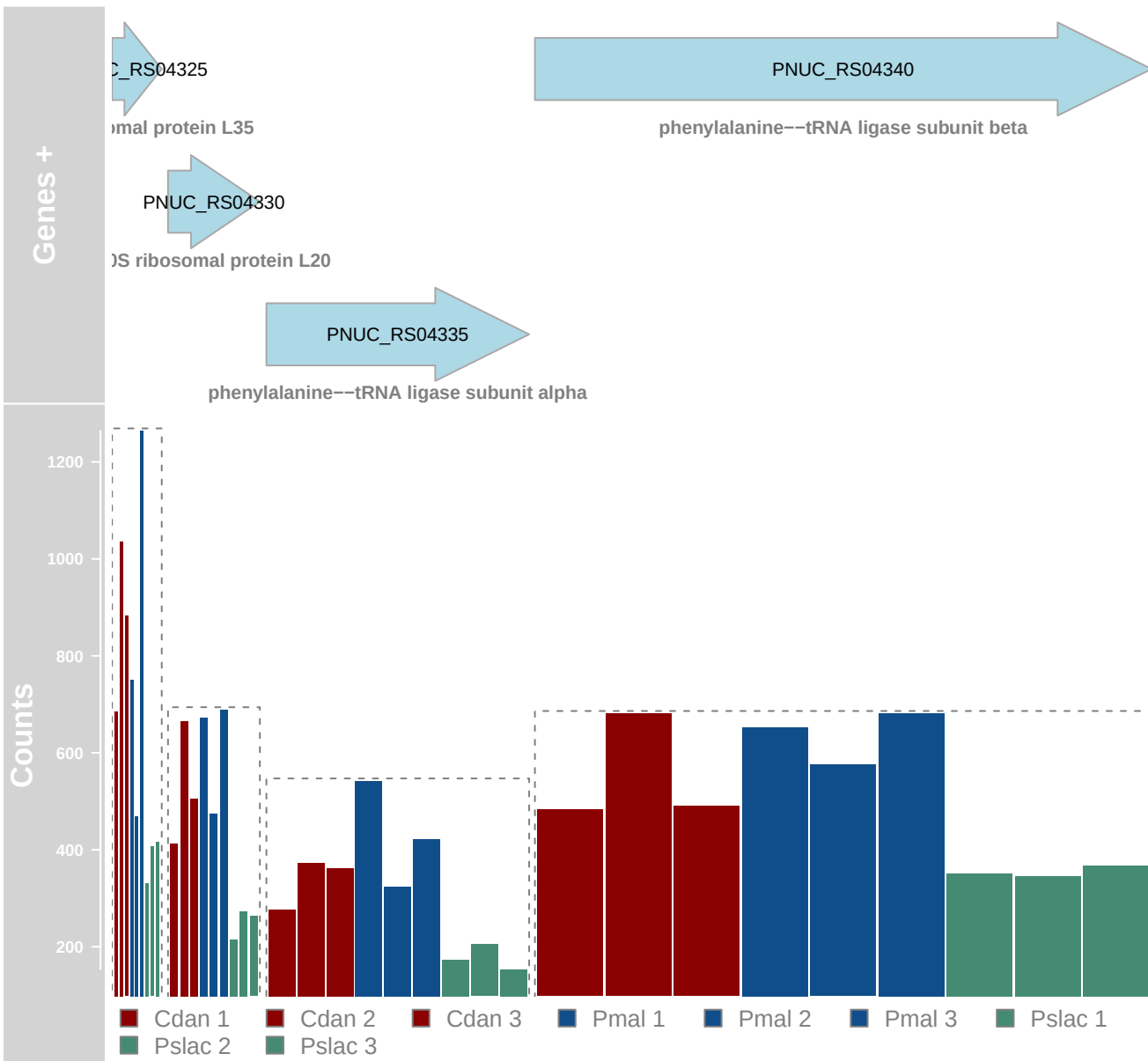
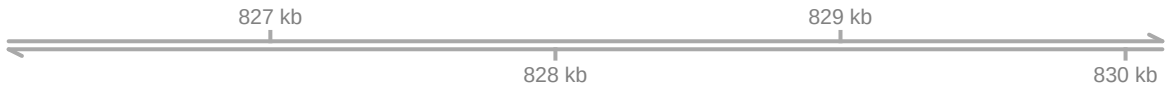
250

200

150





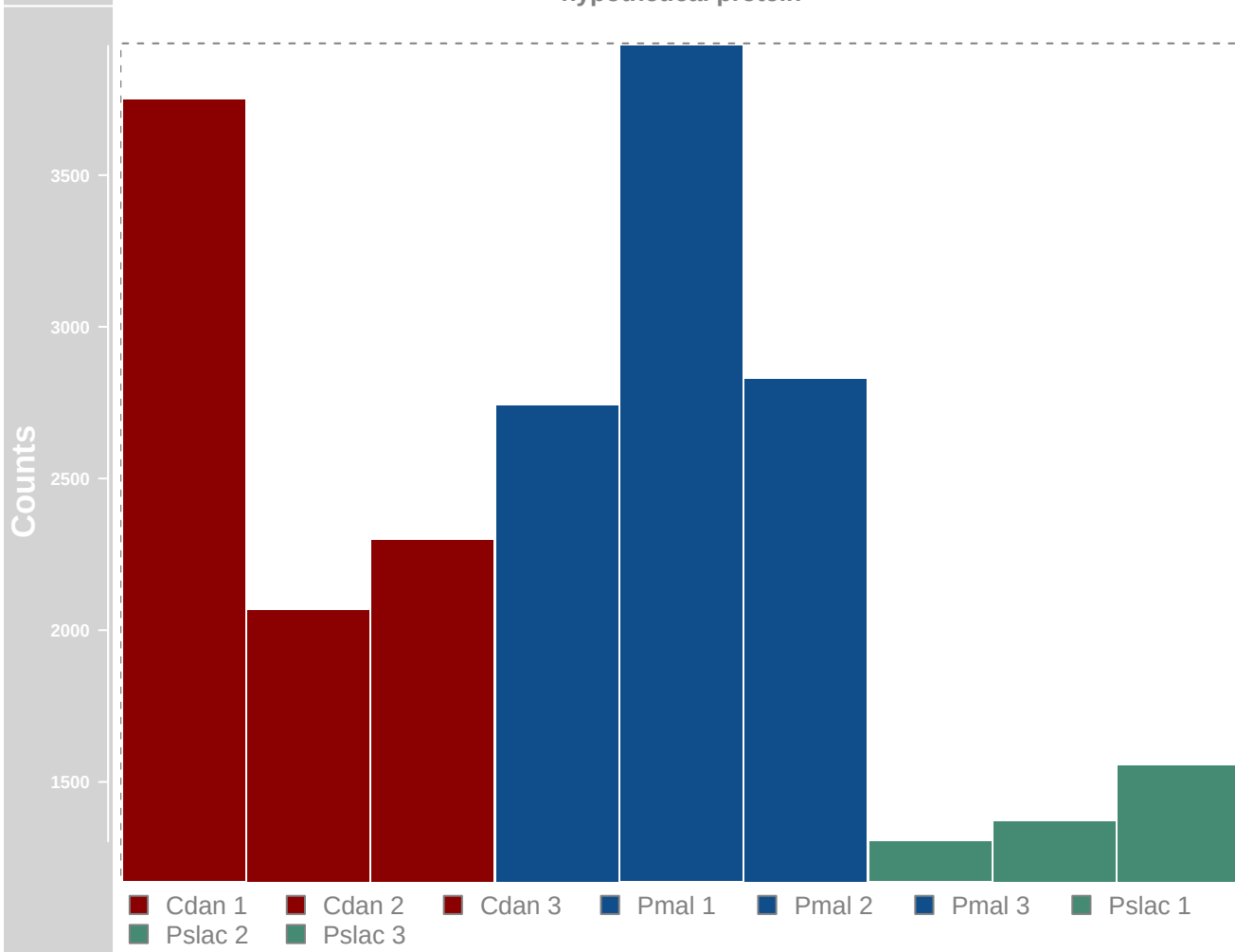


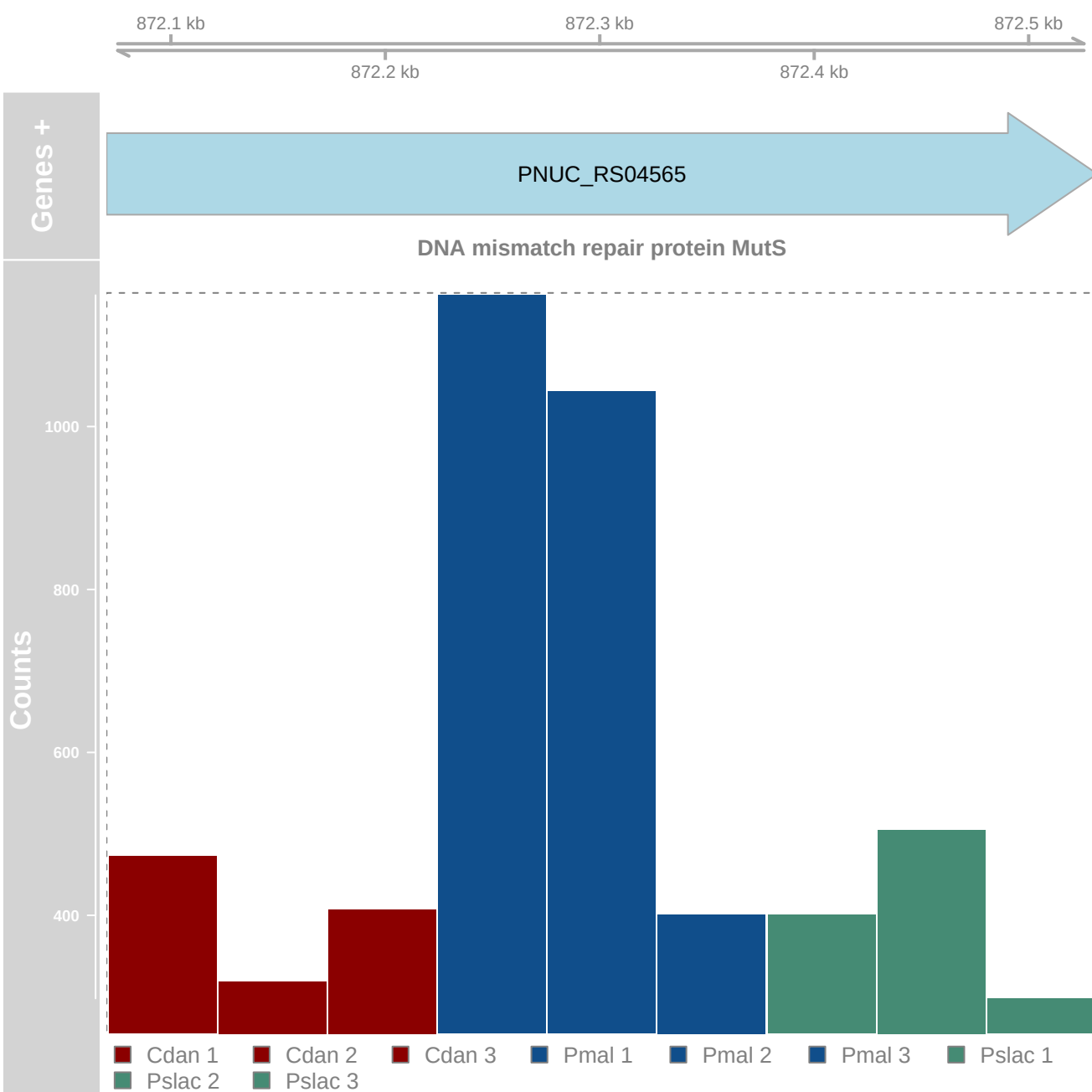


Genes +

PNUC_RS04560

hypothetical protein



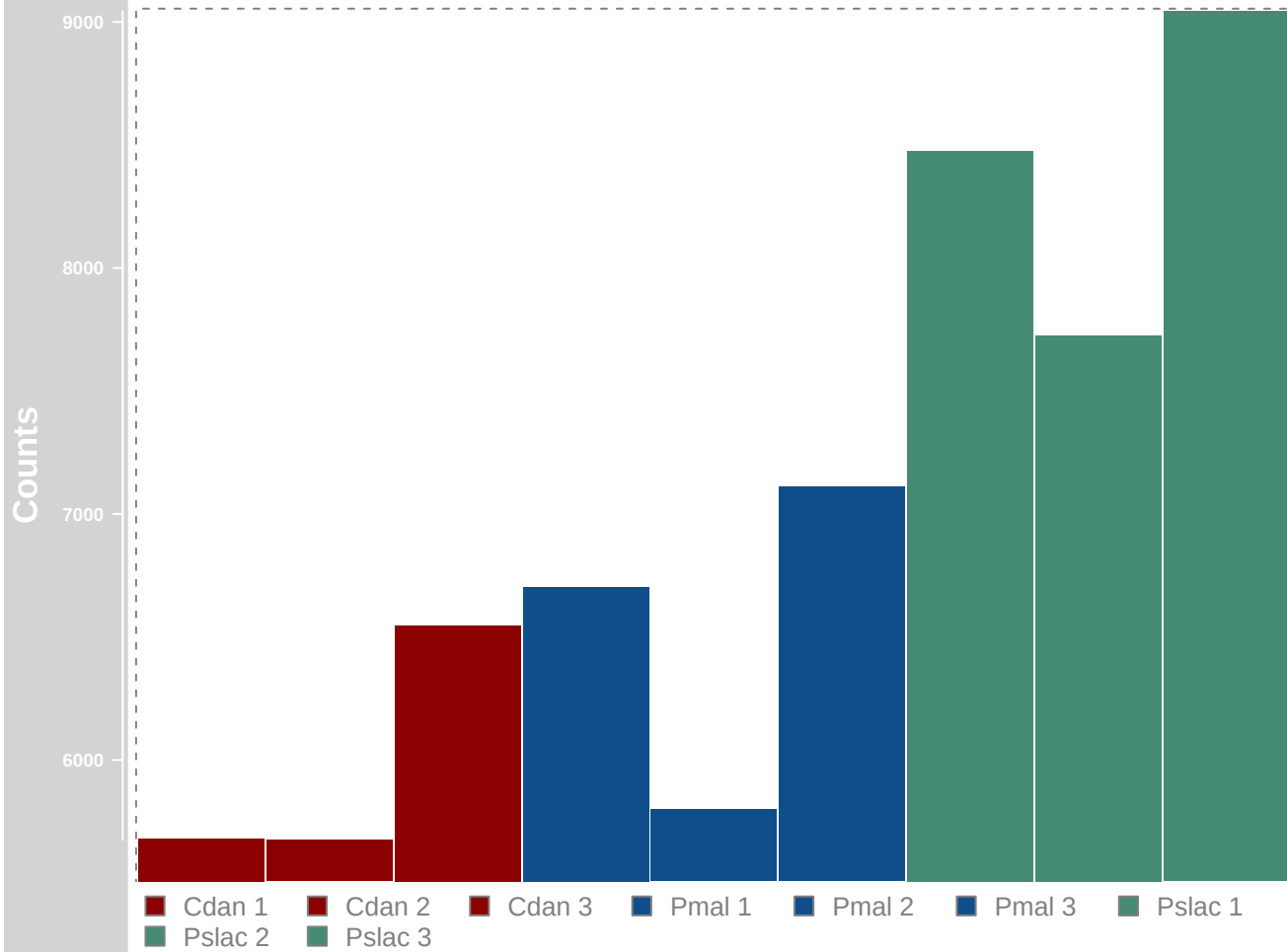


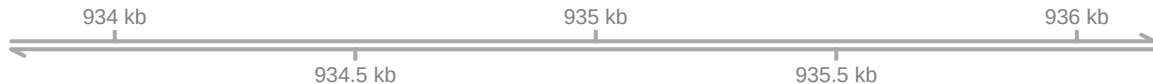


Genes +

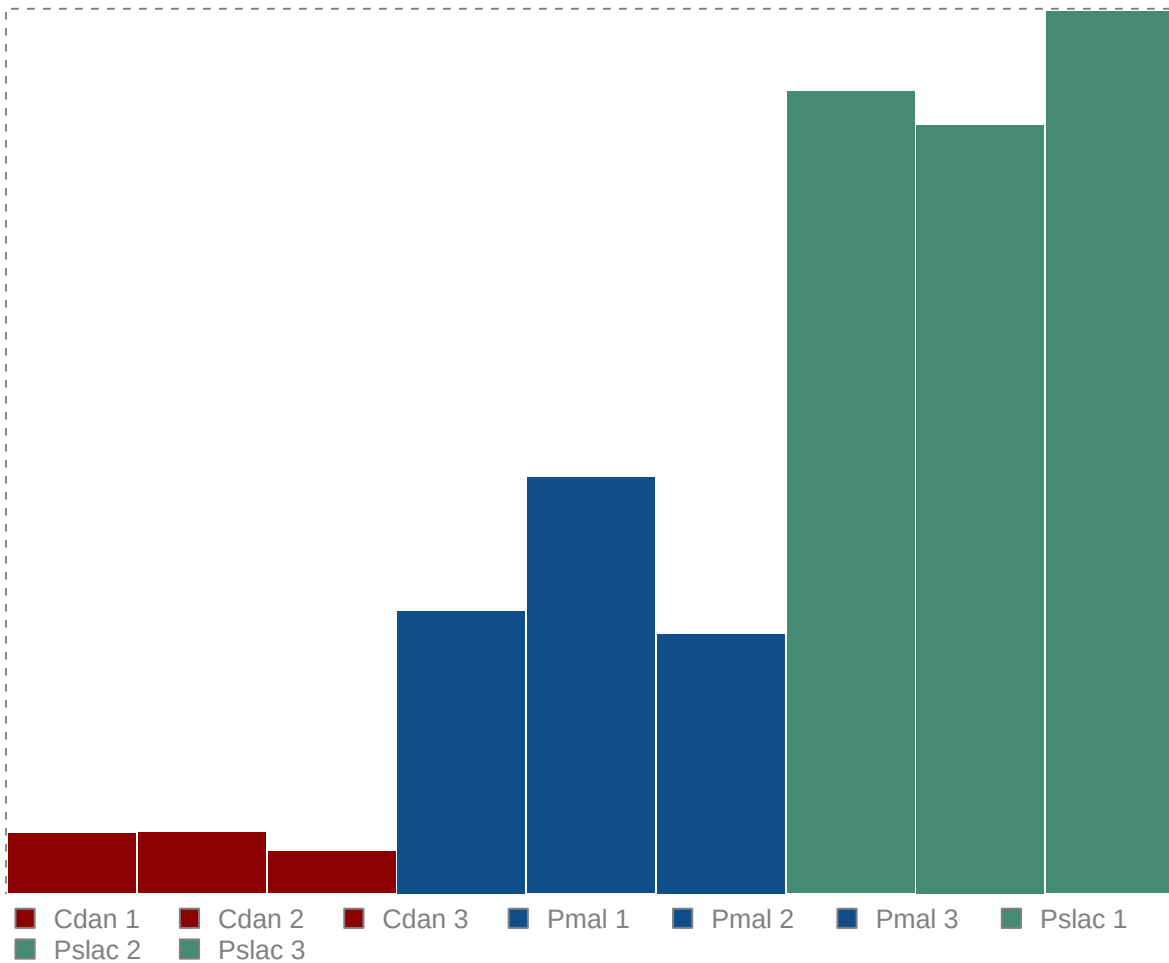
PNUC_RS04825

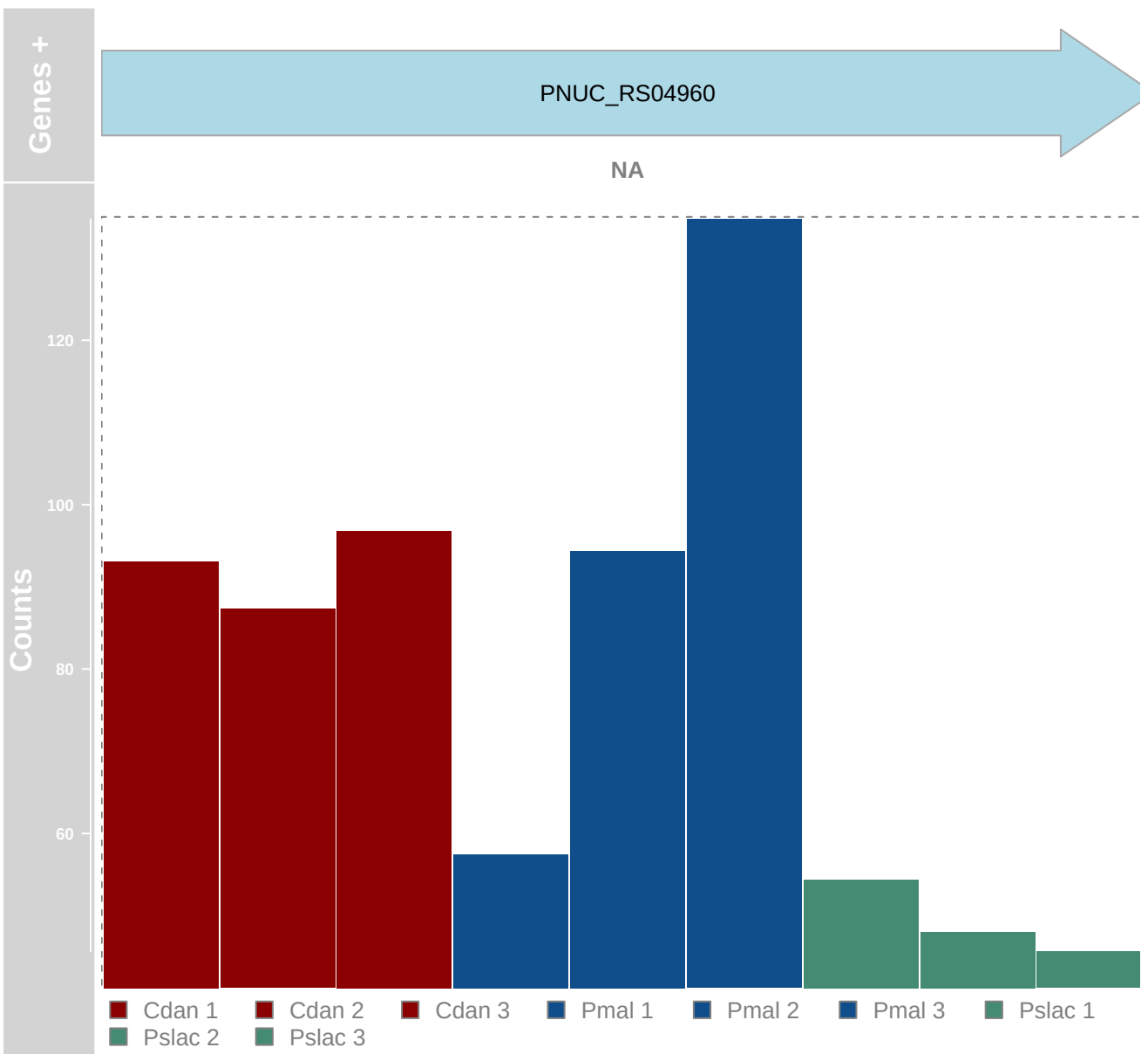
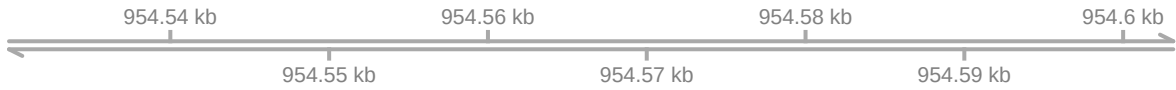
3-ketoacyl-CoA thiolase

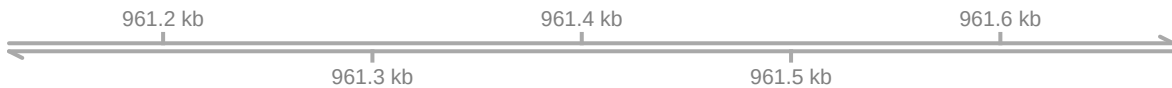




Genes +
PNUC_RS04875
endopeptidase La



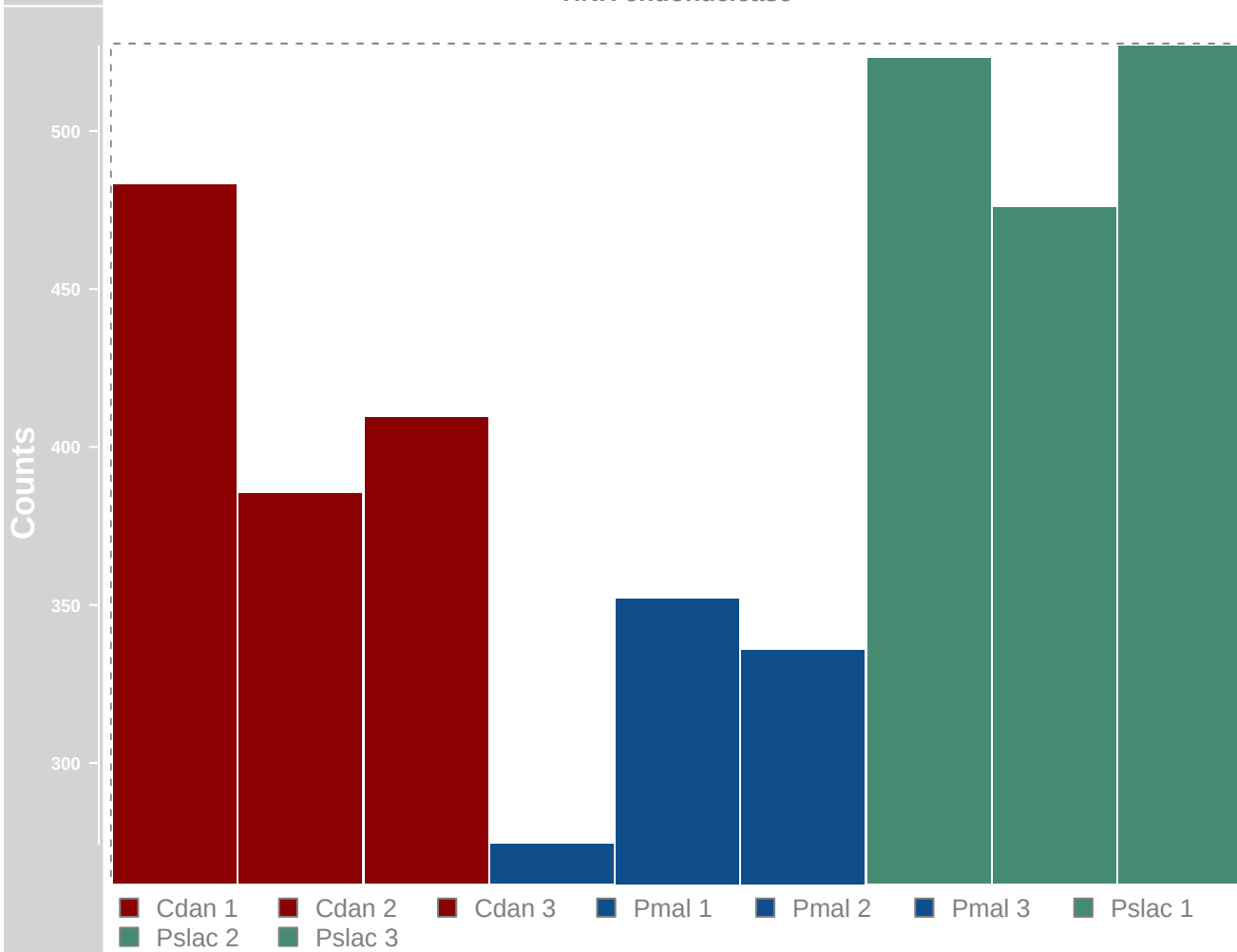


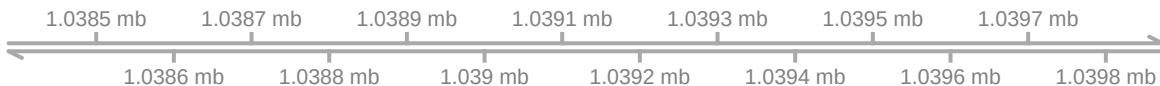


Genes +

PNUC_RS05015

HNH endonuclease





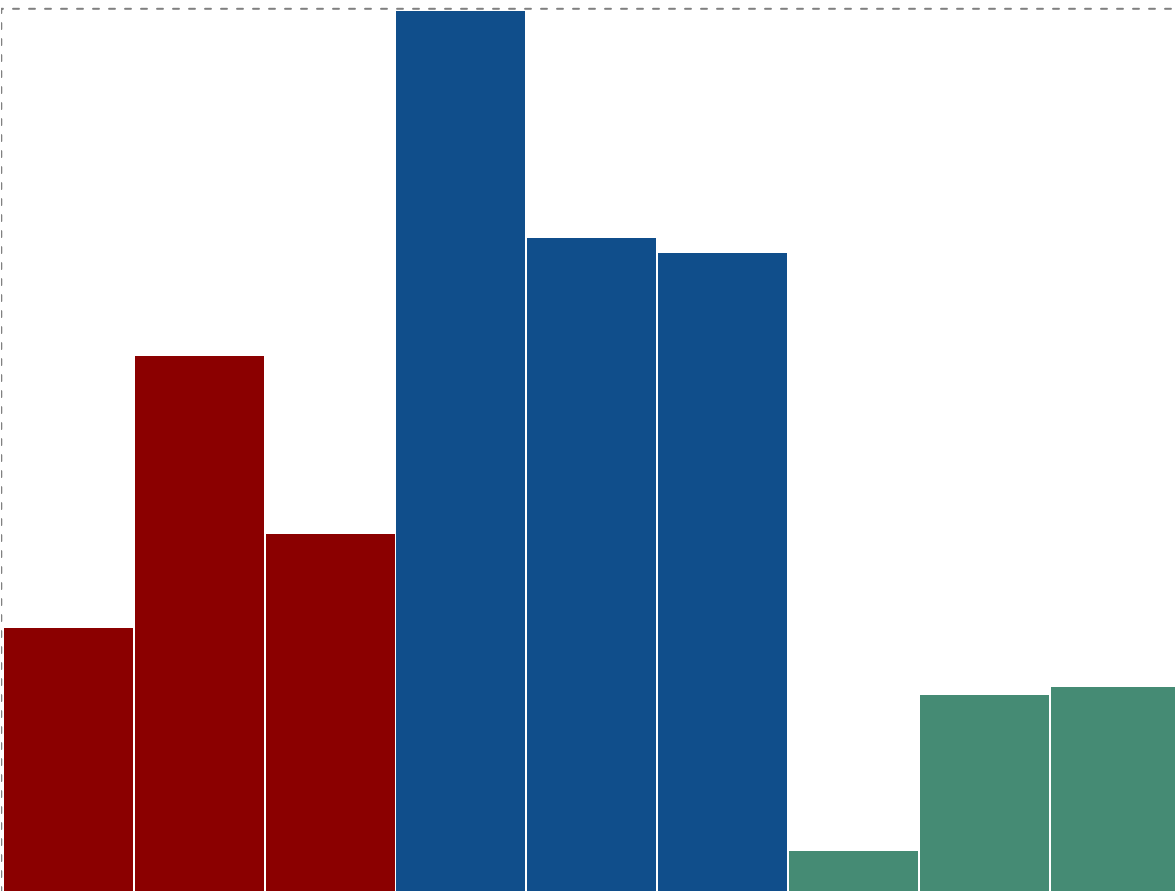
Genes +

PNUC_RS05405

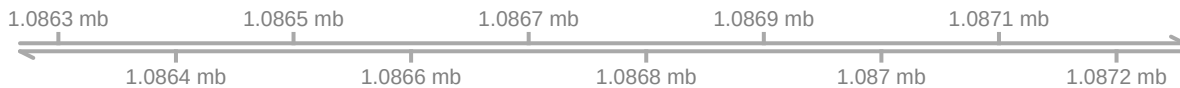
methylmalonate-semialdehyde dehydrogenase (CoA acylating)

Counts

7000
6000
5000



Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1 Pslac 2 Pslac 3

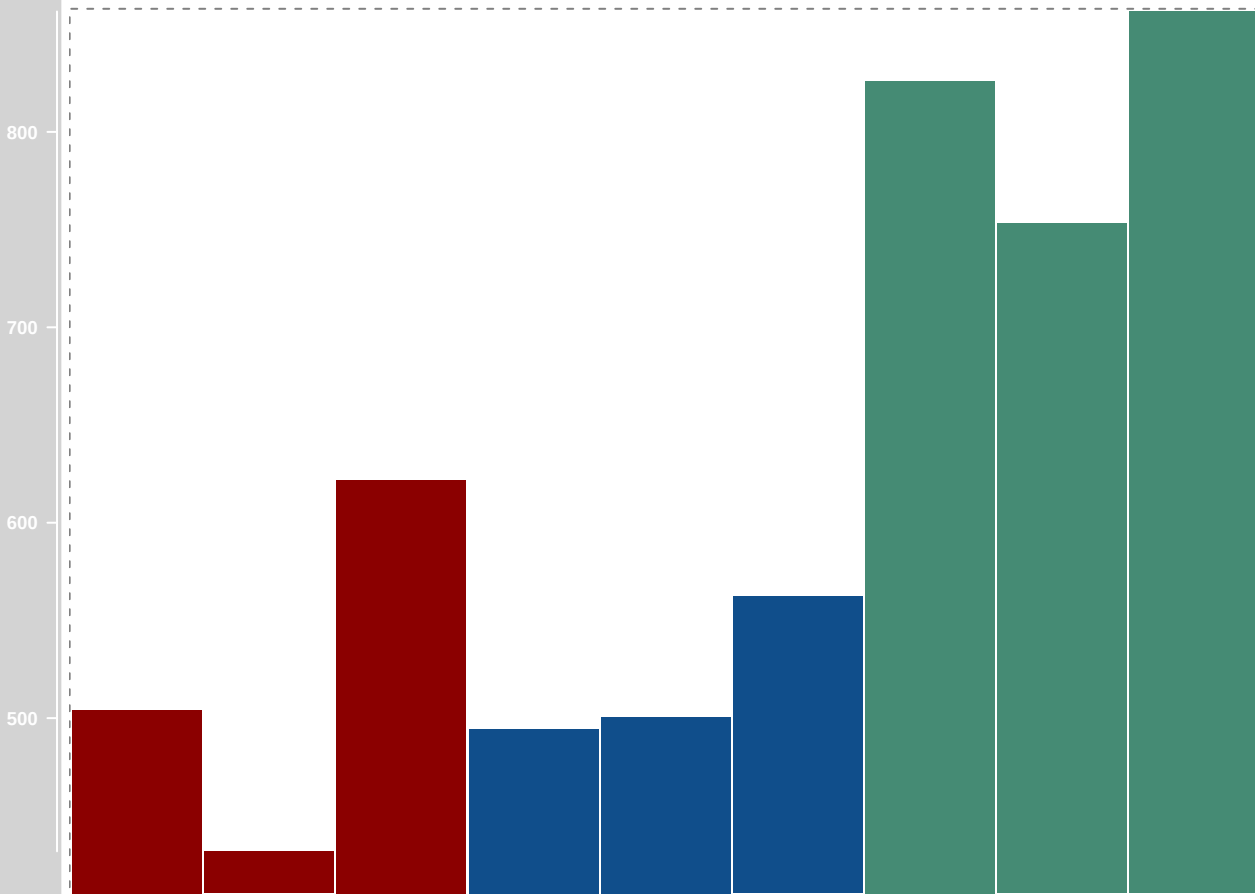


Genes +

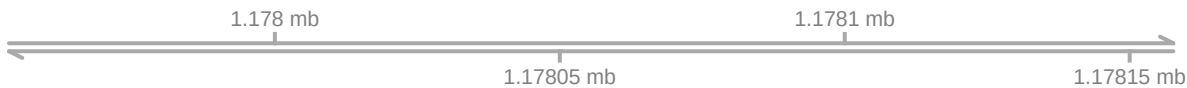
PNUC_RS05655

ABC transporter substrate-binding protein

Counts

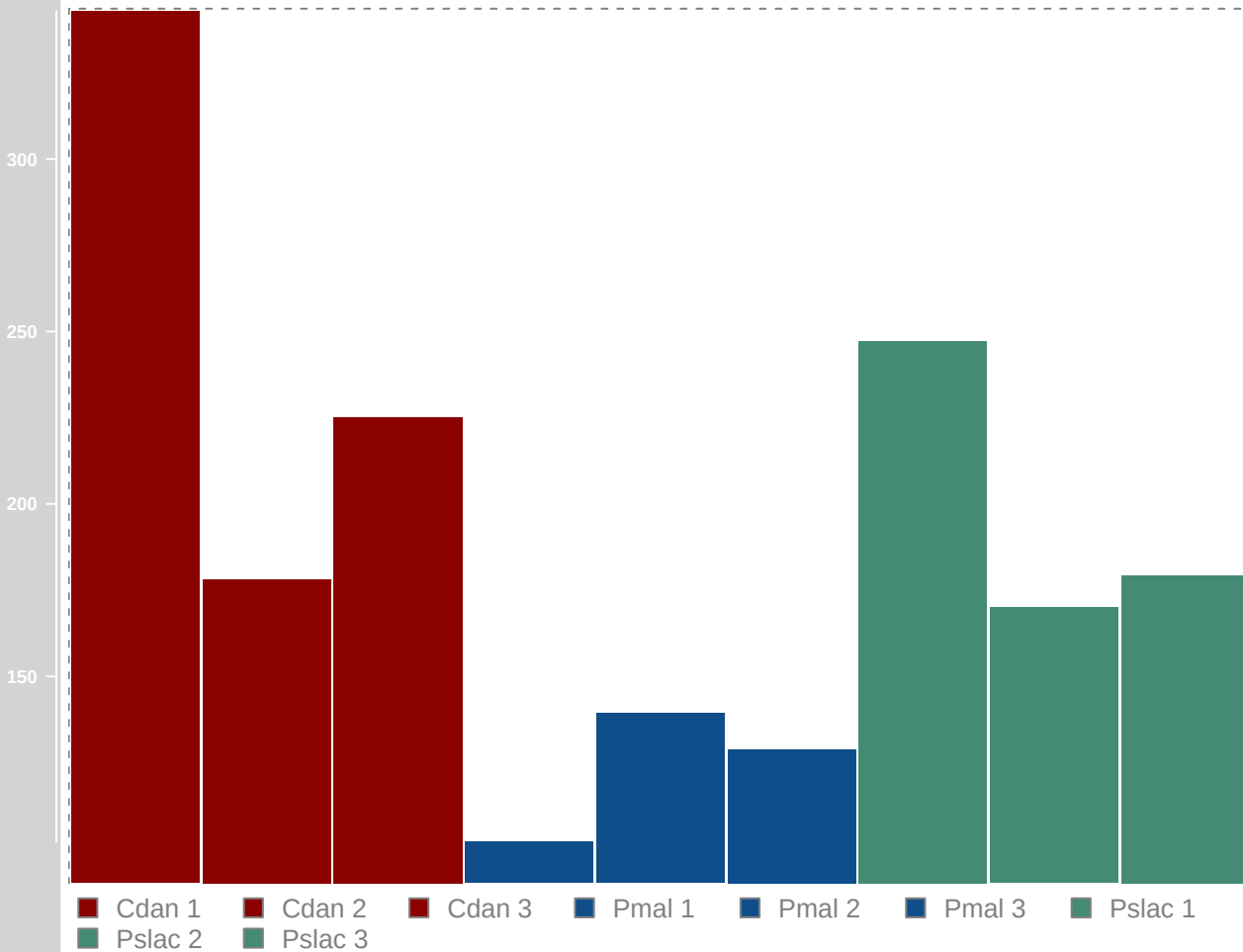


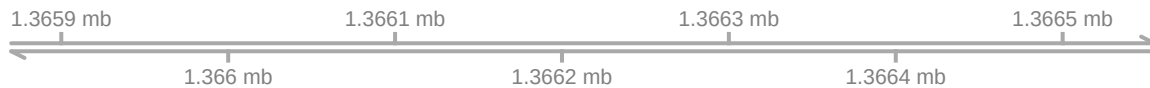
Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1 Pslac 2 Pslac 3



Genes +

Counts



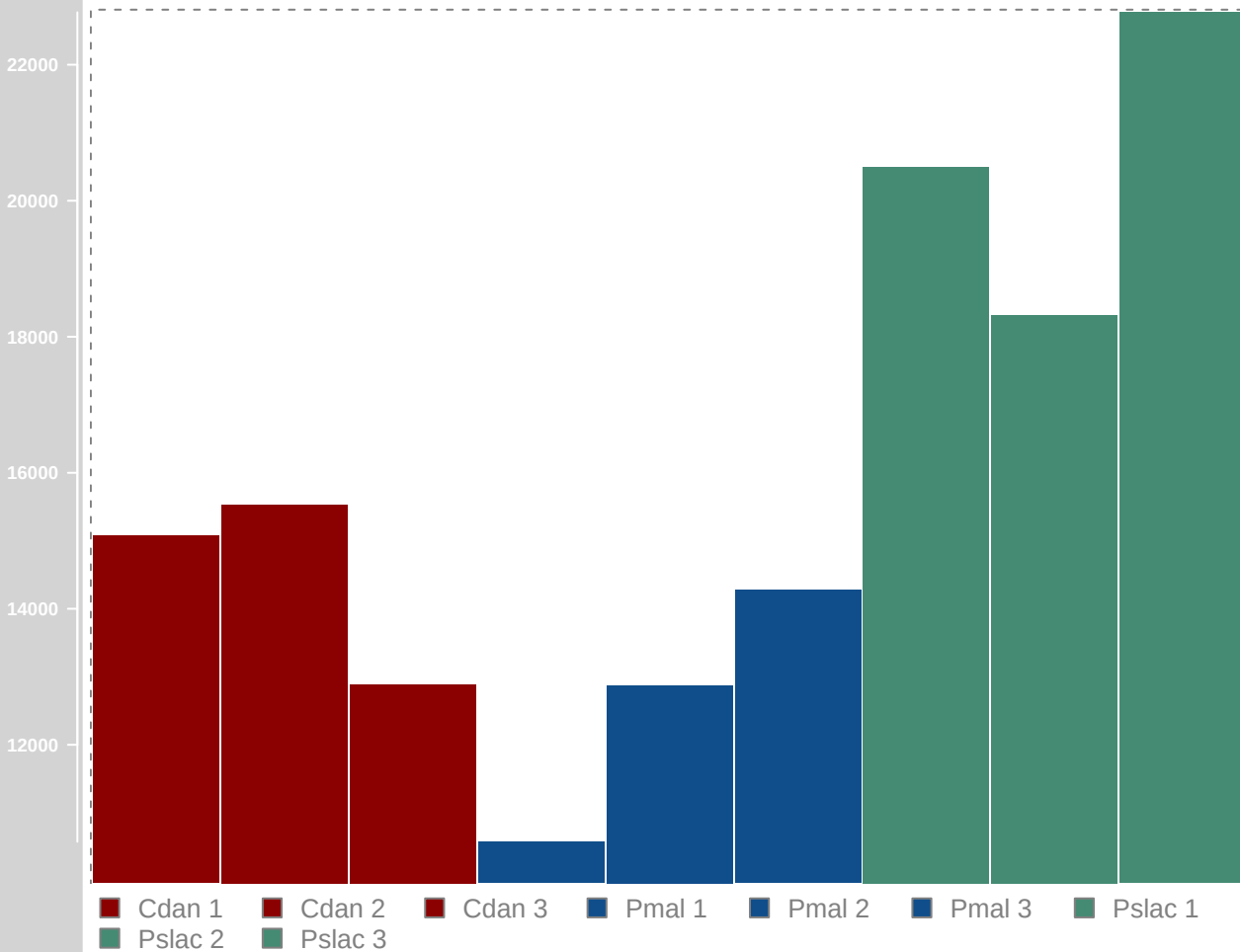


Genes +

PNUC_RS06785

membrane protein

Counts

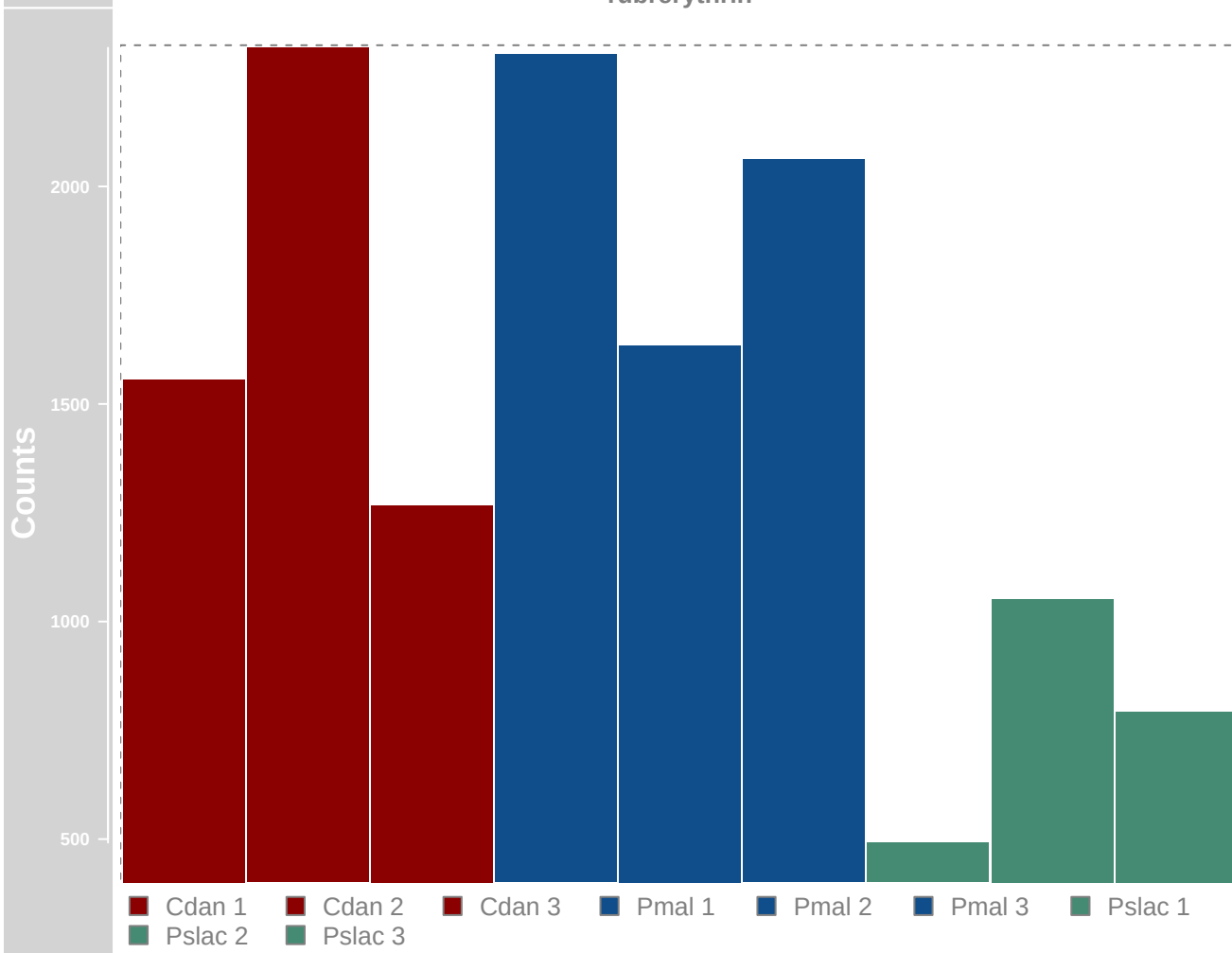


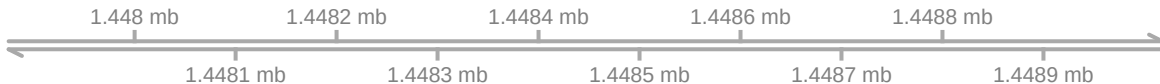


Genes +

PNUC_RS07210

rubrerythrin



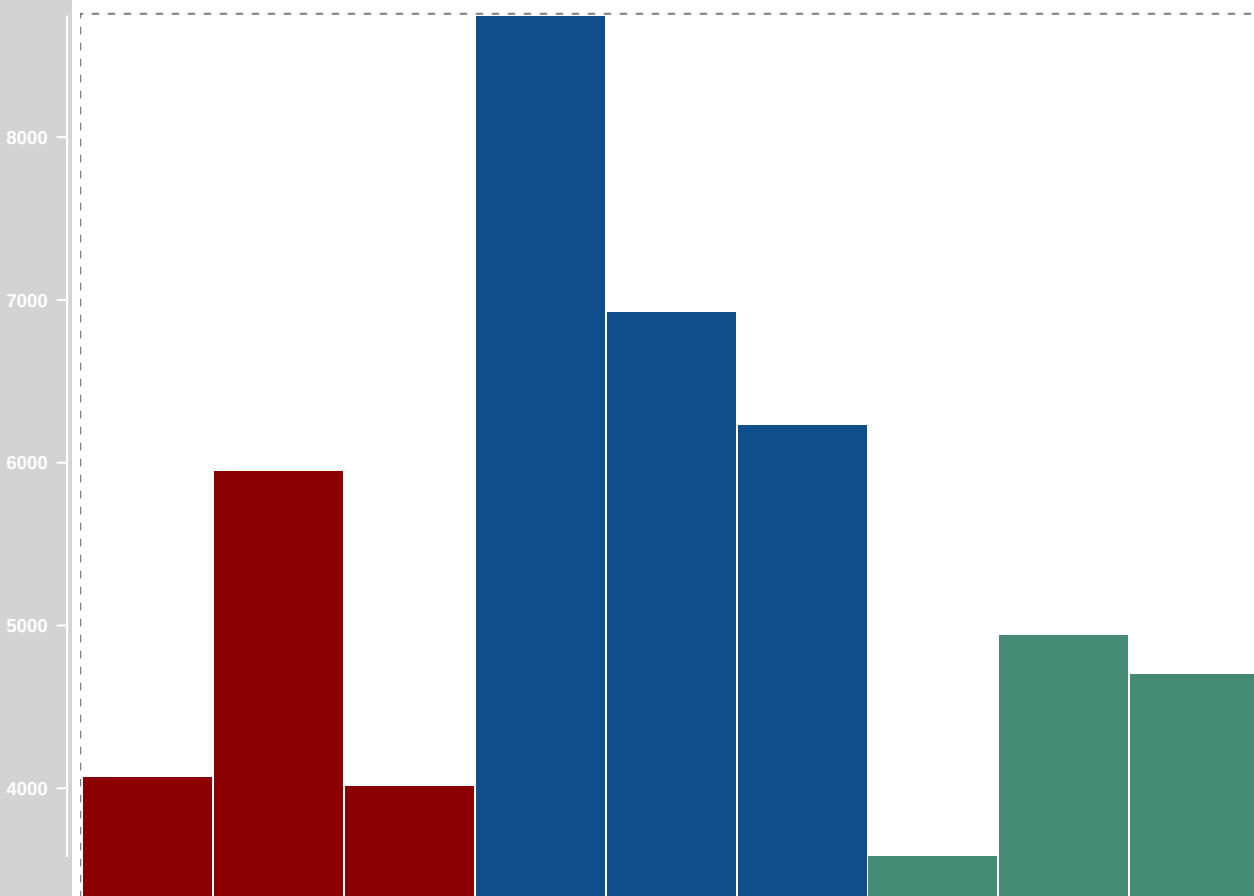


Genes +

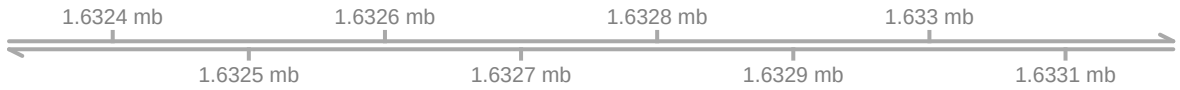
PNUC_RS07220

FAD-dependent oxidoreductase

Counts



Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1 Pslac 2 Pslac 3



Genes +

PNUC_RS08140

LysR family transcriptional regulator

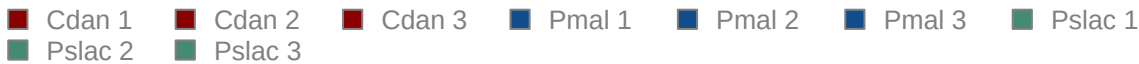
Counts

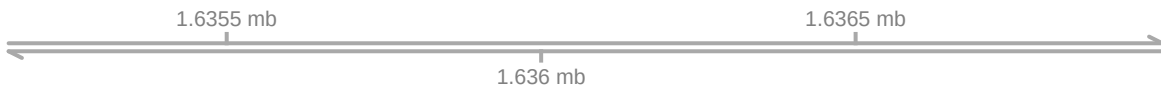
250

200

150

100





Genes +

PNUC_RS08150

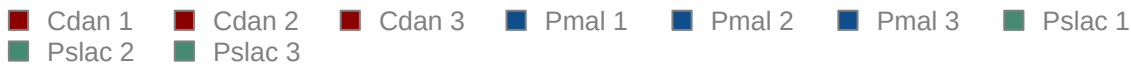
propionate--CoA ligase

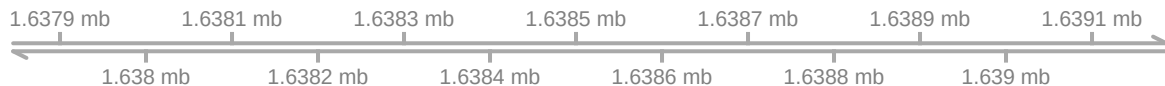
Counts

2000

1500

1000





Genes +

PNUC_RS08160

FMN-binding protein

PNUC_RS08165

ApbE family lipoprotein

Counts

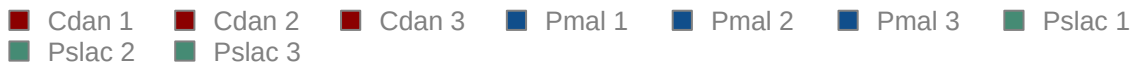
1000

800

600

400

200

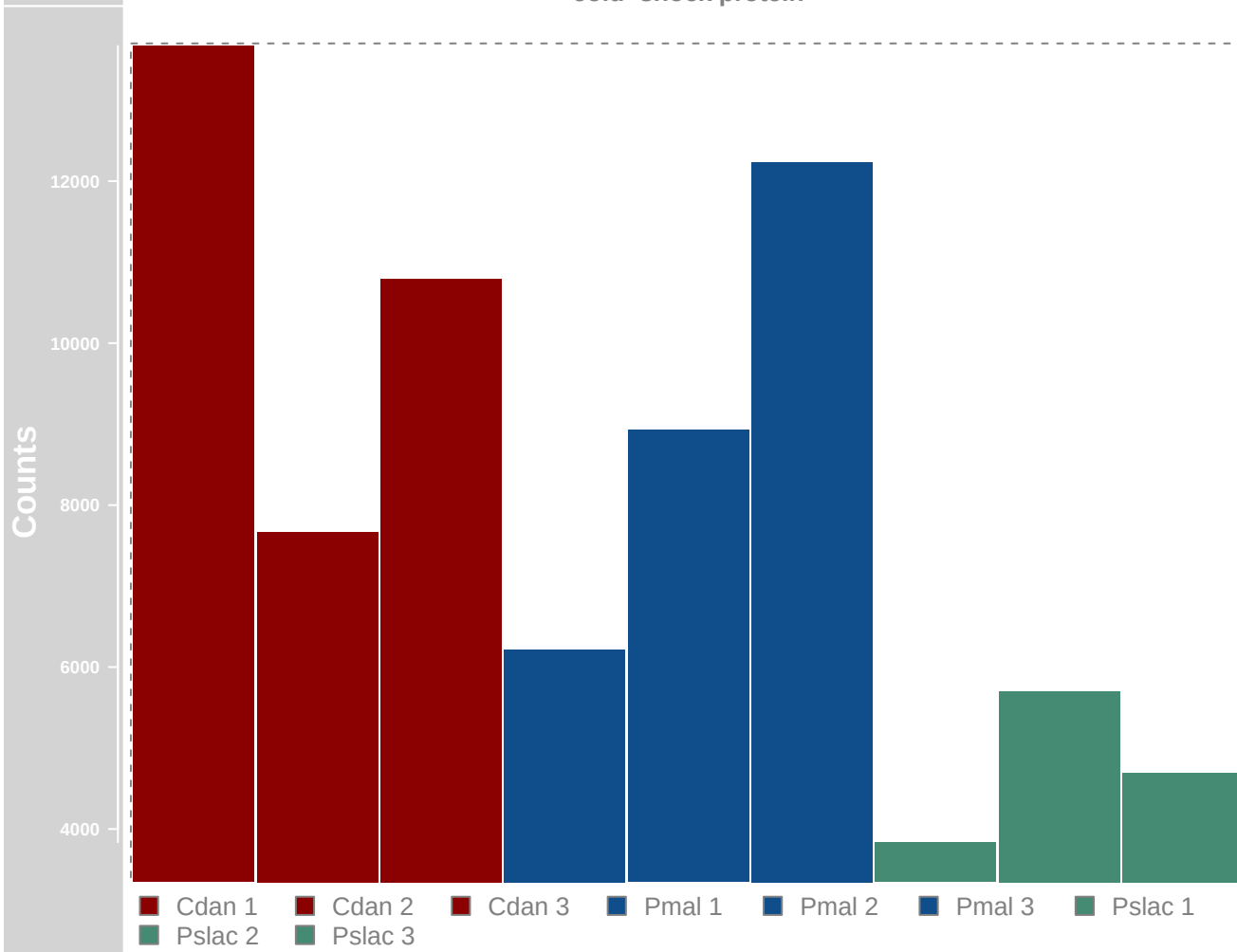


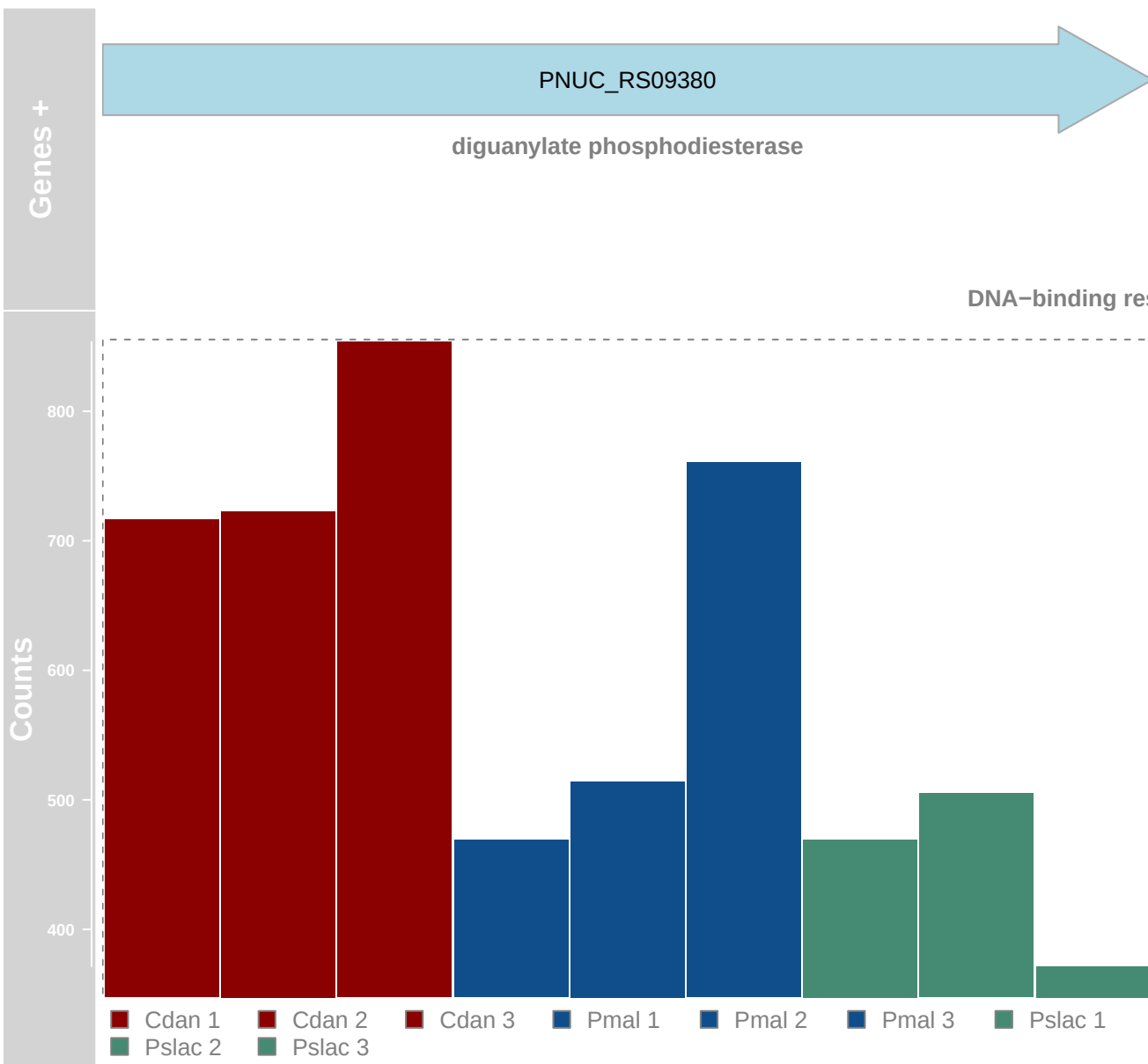
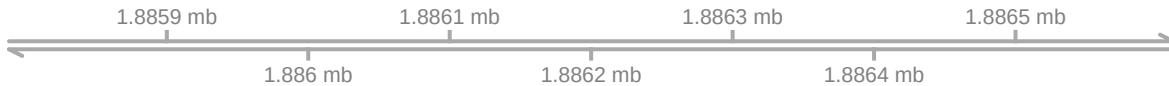


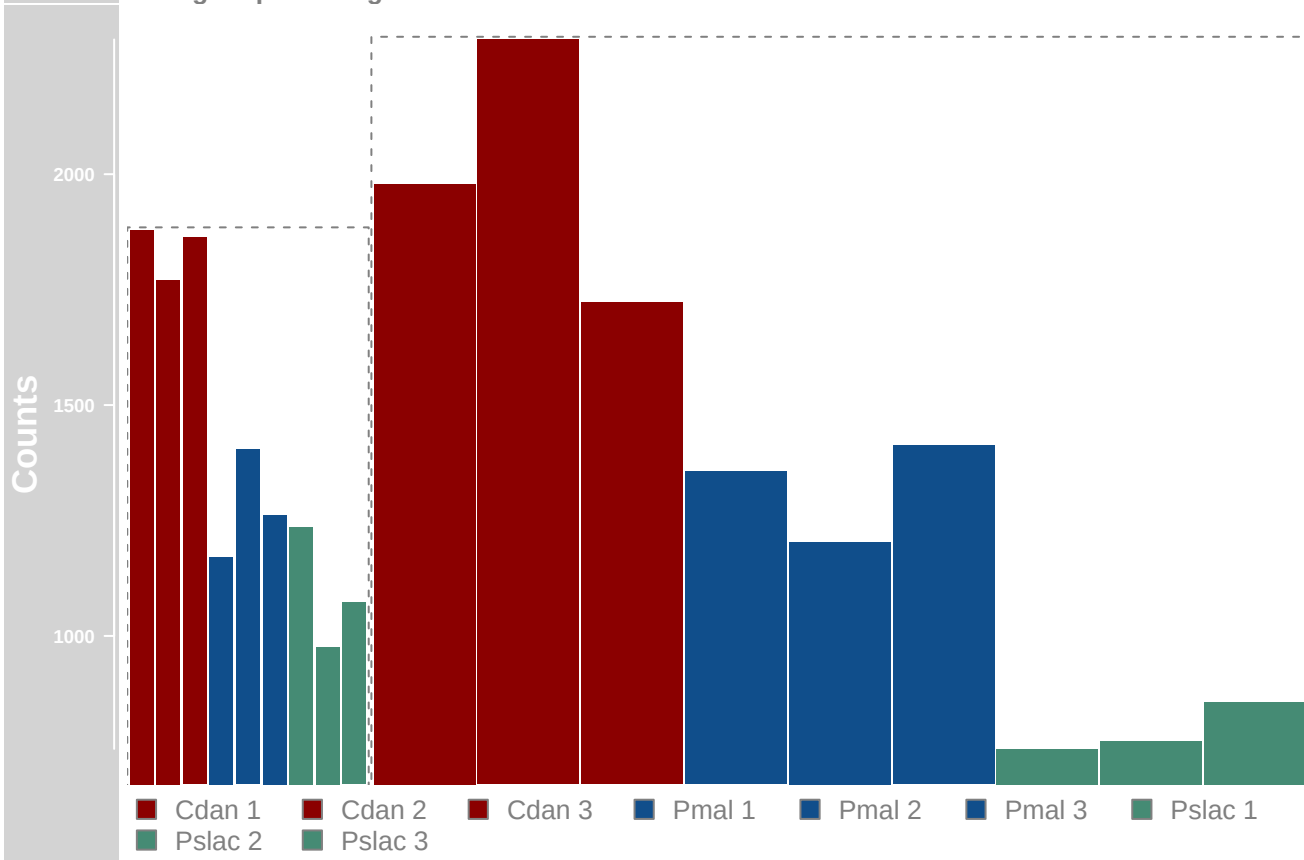
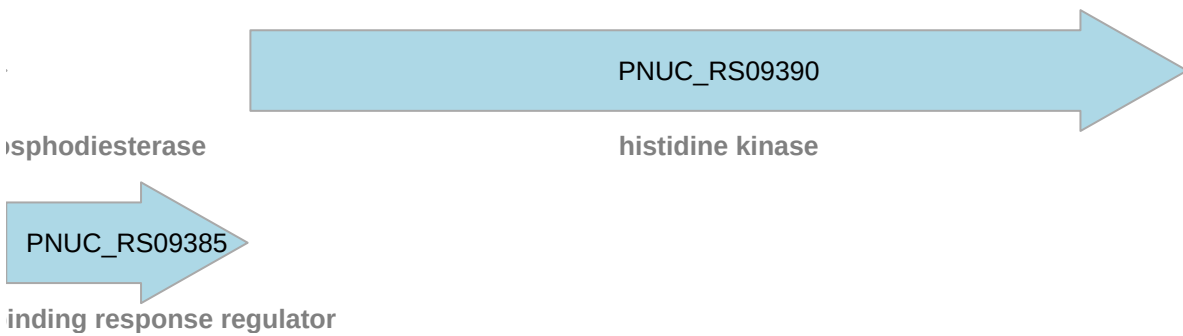
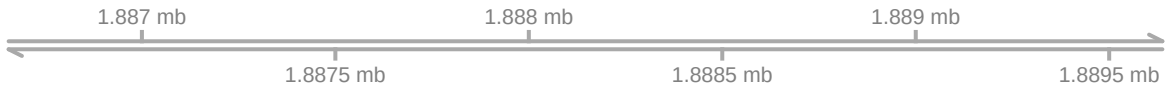
Genes +

PNUC_RS09095

cold-shock protein







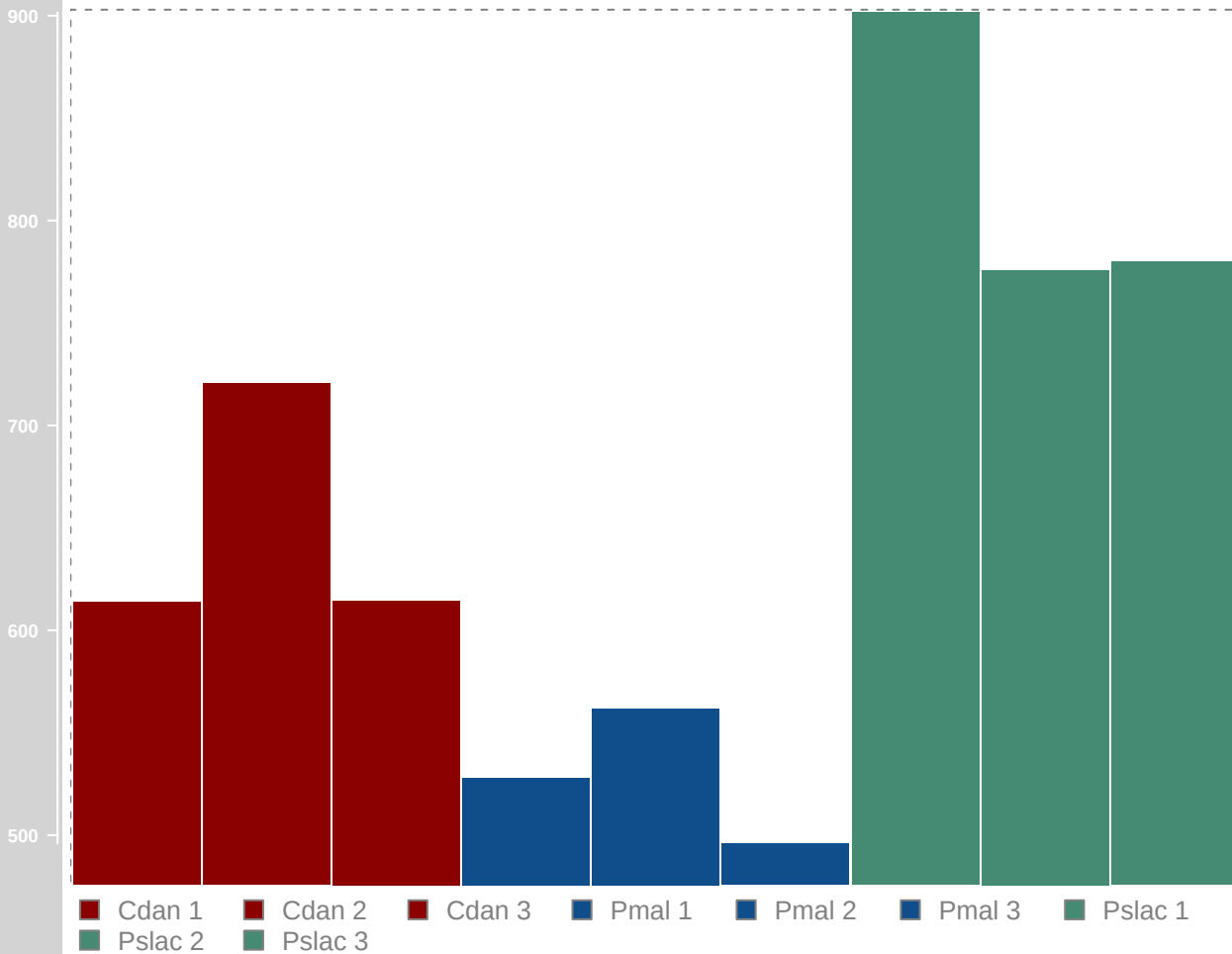


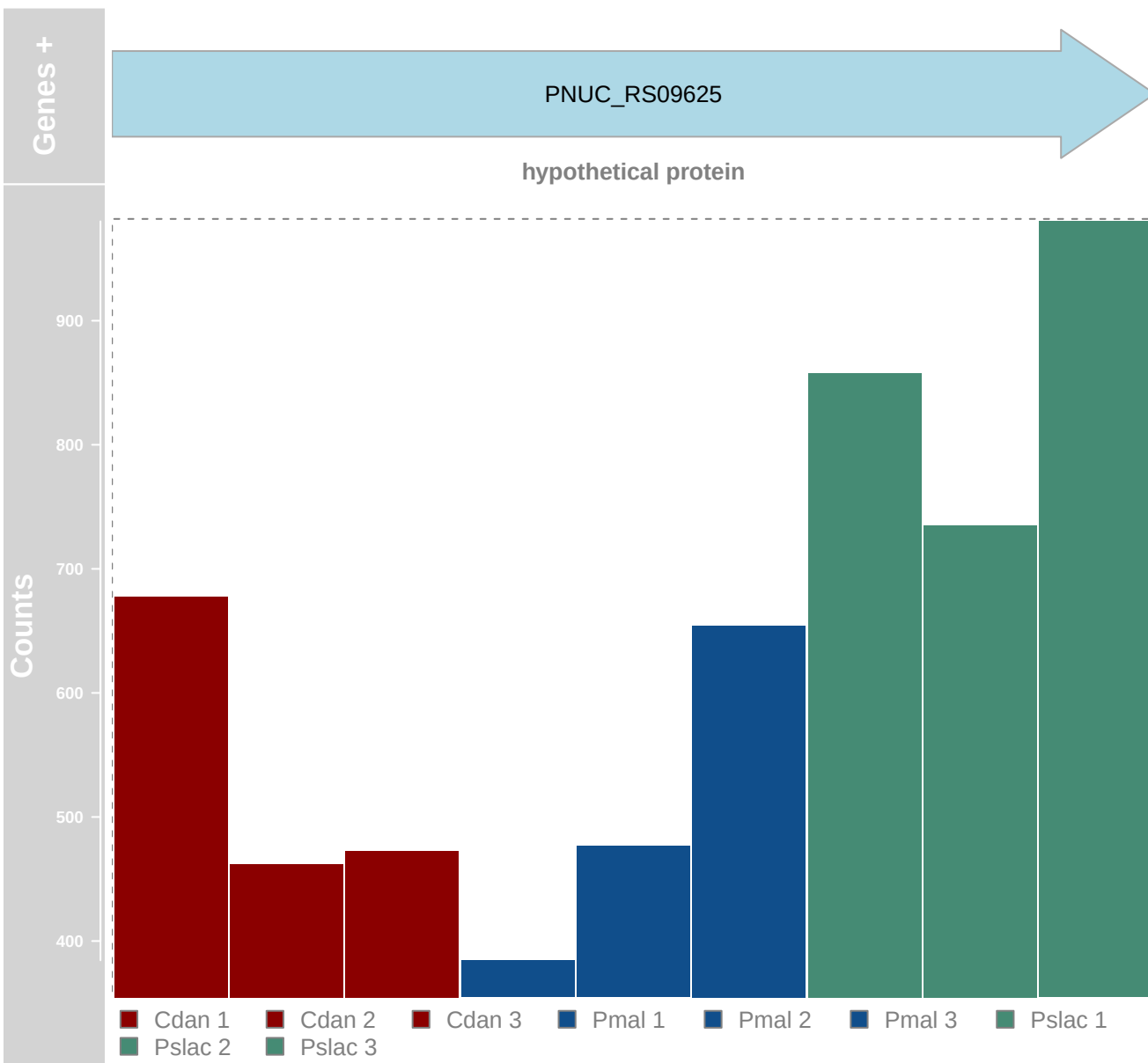
Genes +

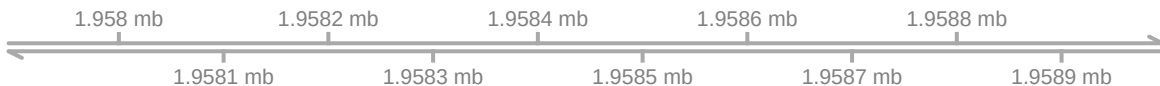
PNUC_RS09465

cyclic pyranopterin monophosphate synthase MoaC

Counts







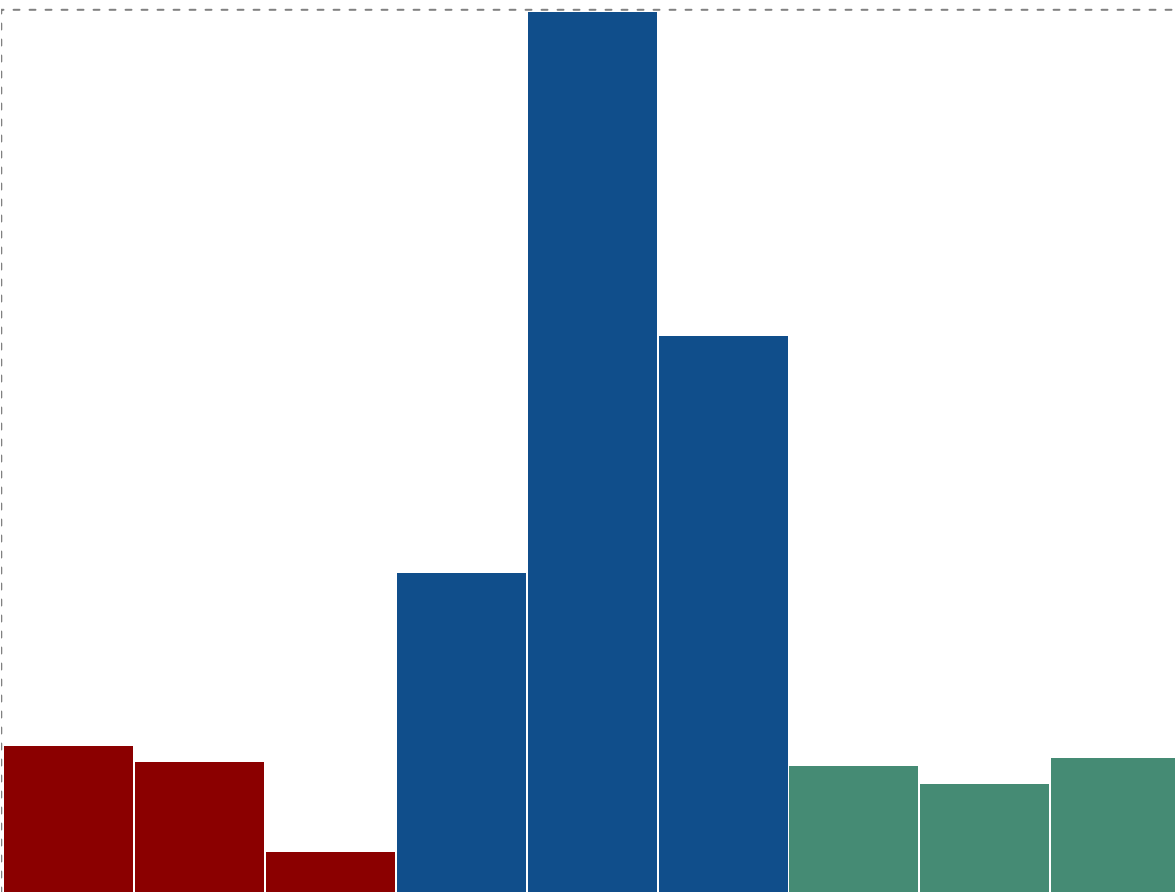
Genes +

PNUC_RS09760

anhydro-N-acetylmuramic acid kinase

Counts

6000
5500
5000
4500
4000



Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1 Pslac 2 Pslac 3



Genes +

PNUC_RS09910

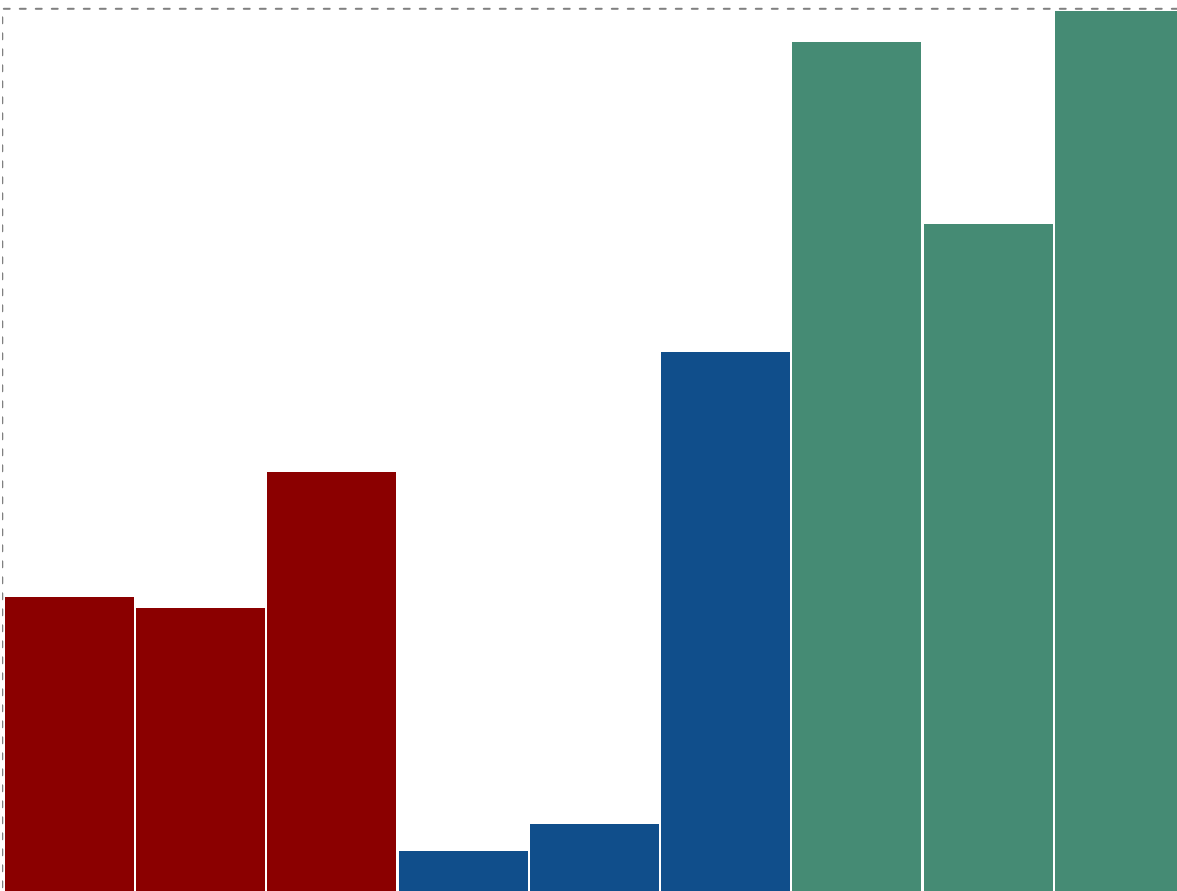
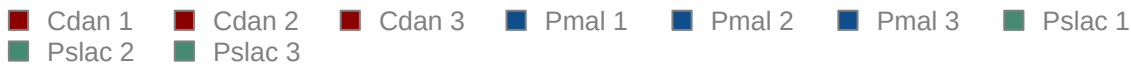
ribosomal subunit interface protein

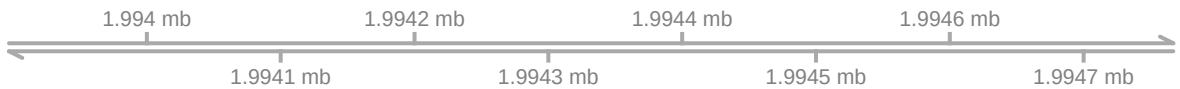
Counts

2500

2000

1500





Genes +

PNUC_RS09925

RNase adaptor protein RapZ

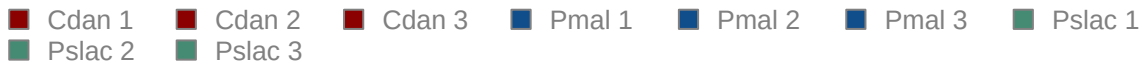
Counts

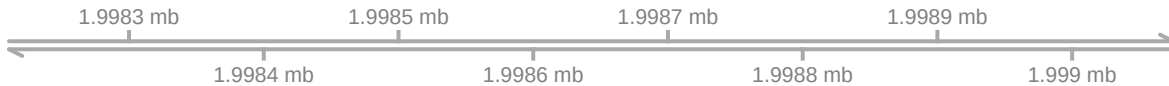
500

450

400

350



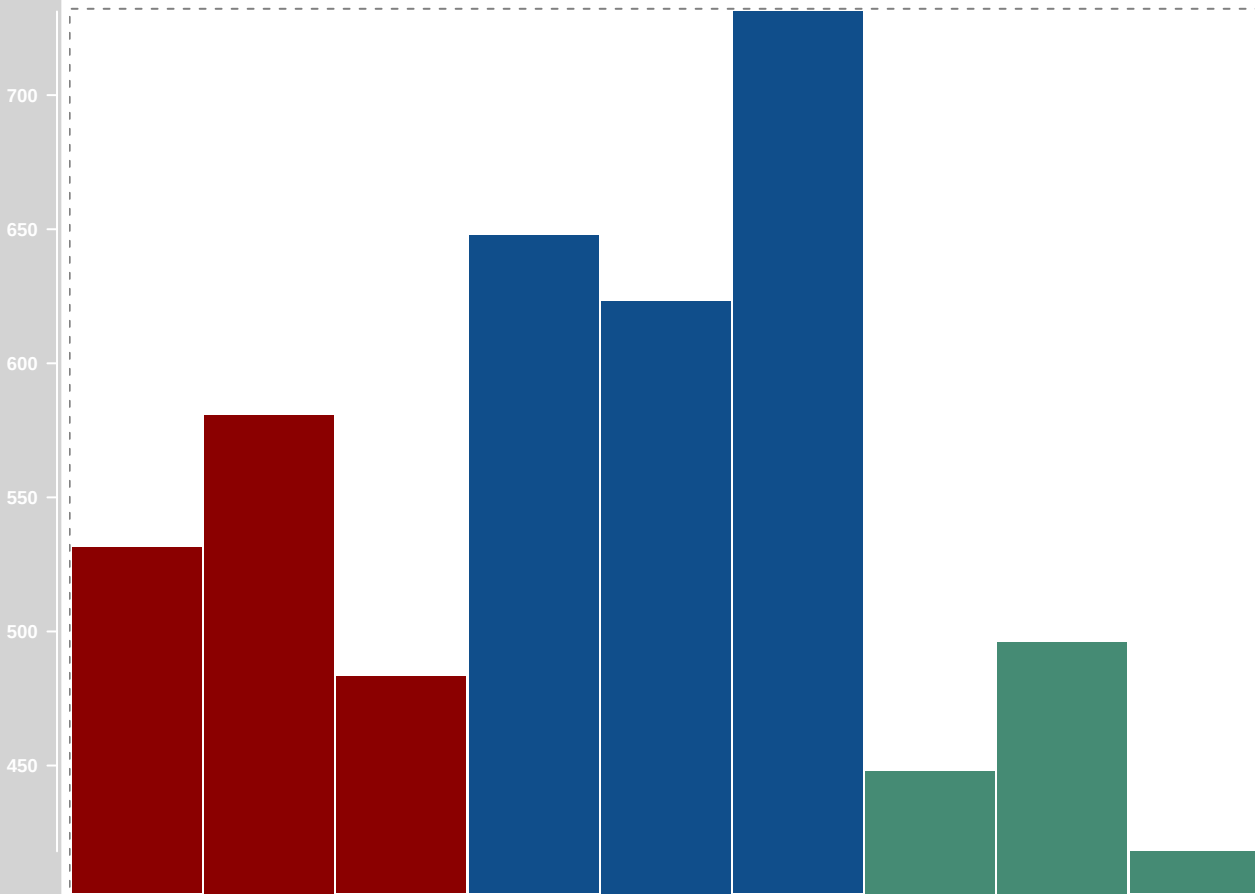


Genes +

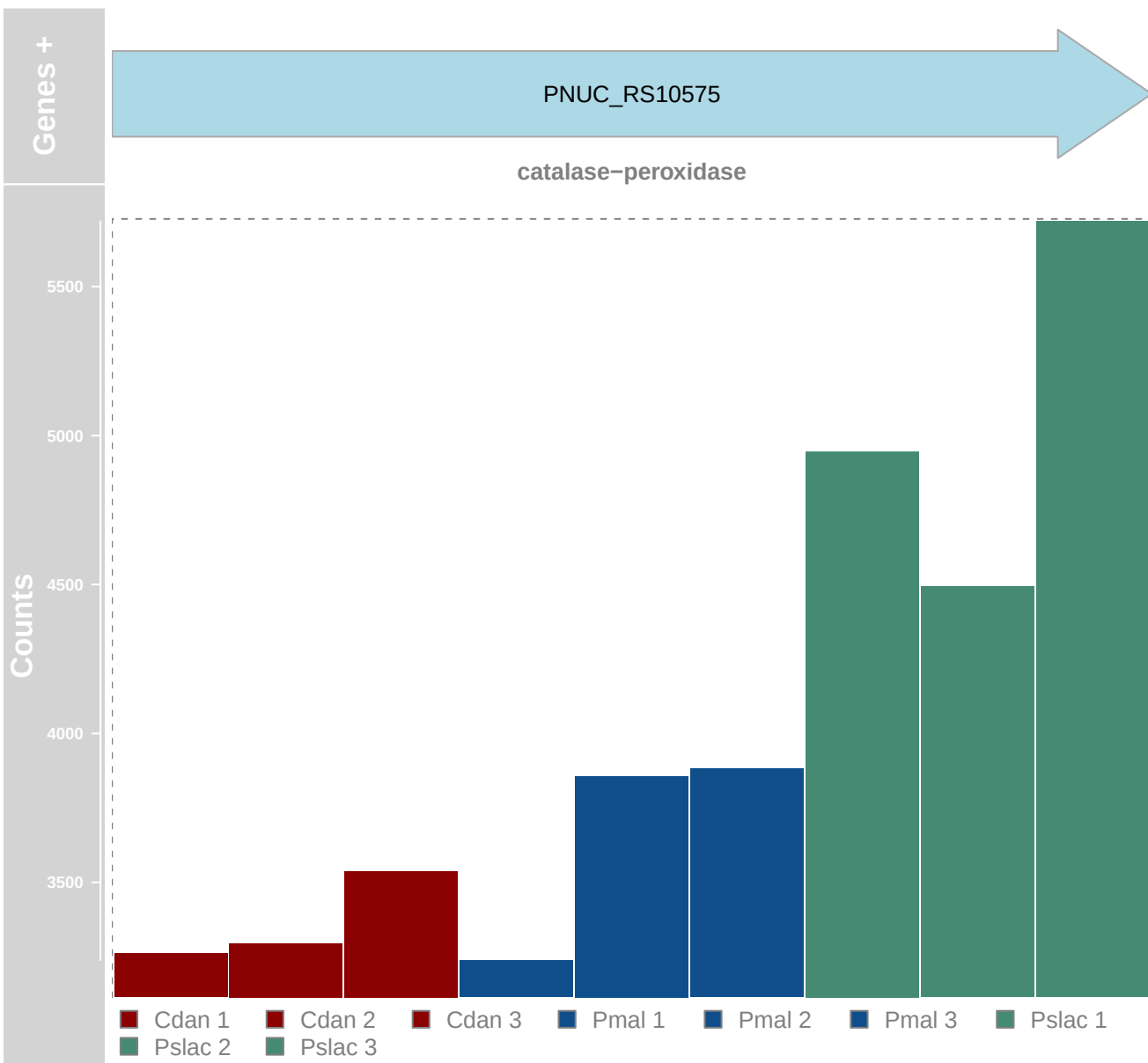
PNUC_RS09945

4-diphosphocytidyl-2C-methyl-D-erythritol kinase

Counts

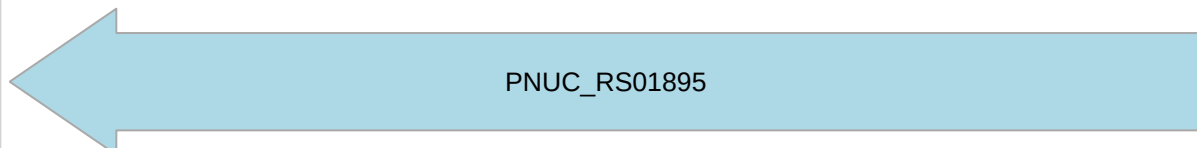


Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1 Pslac 2 Pslac 3



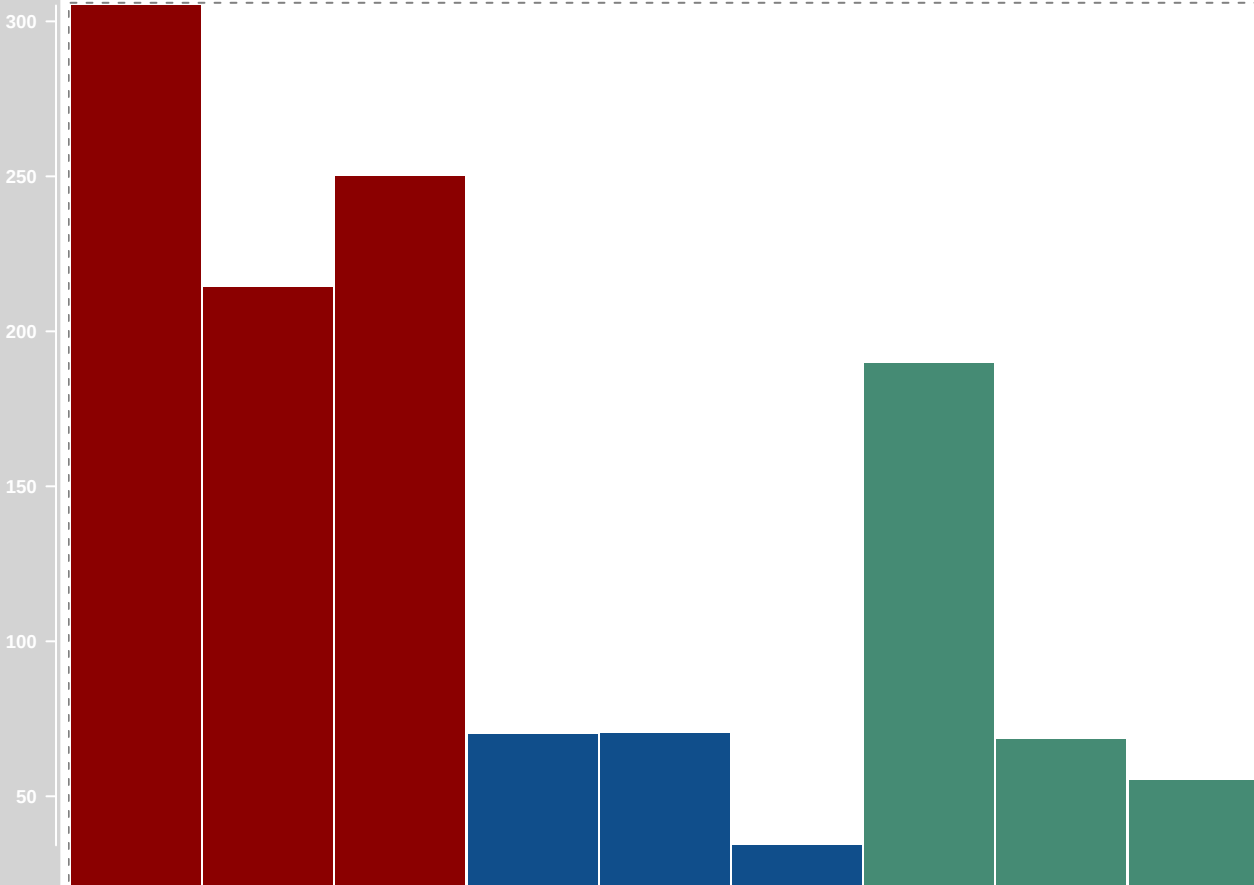


Genes -

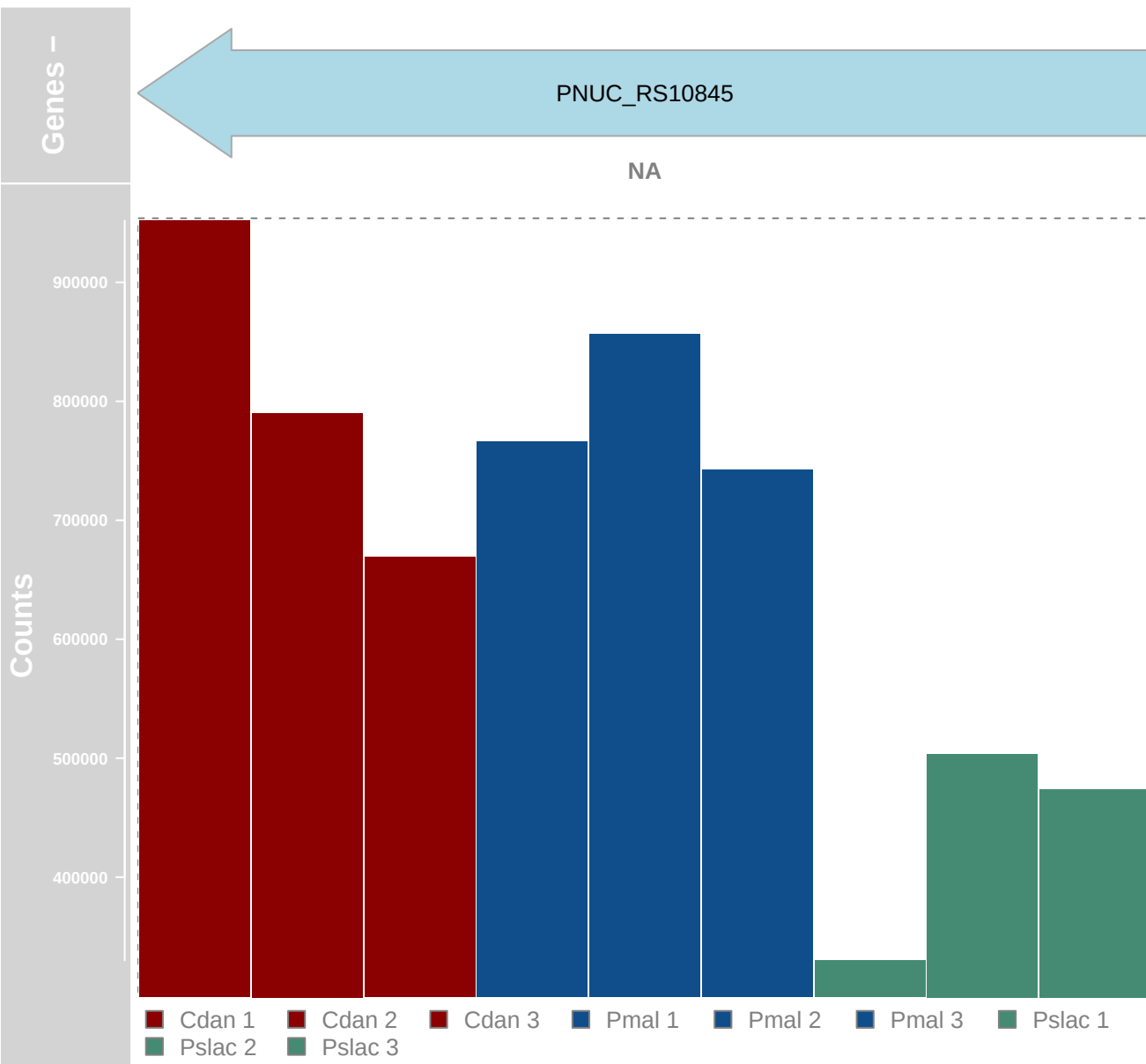


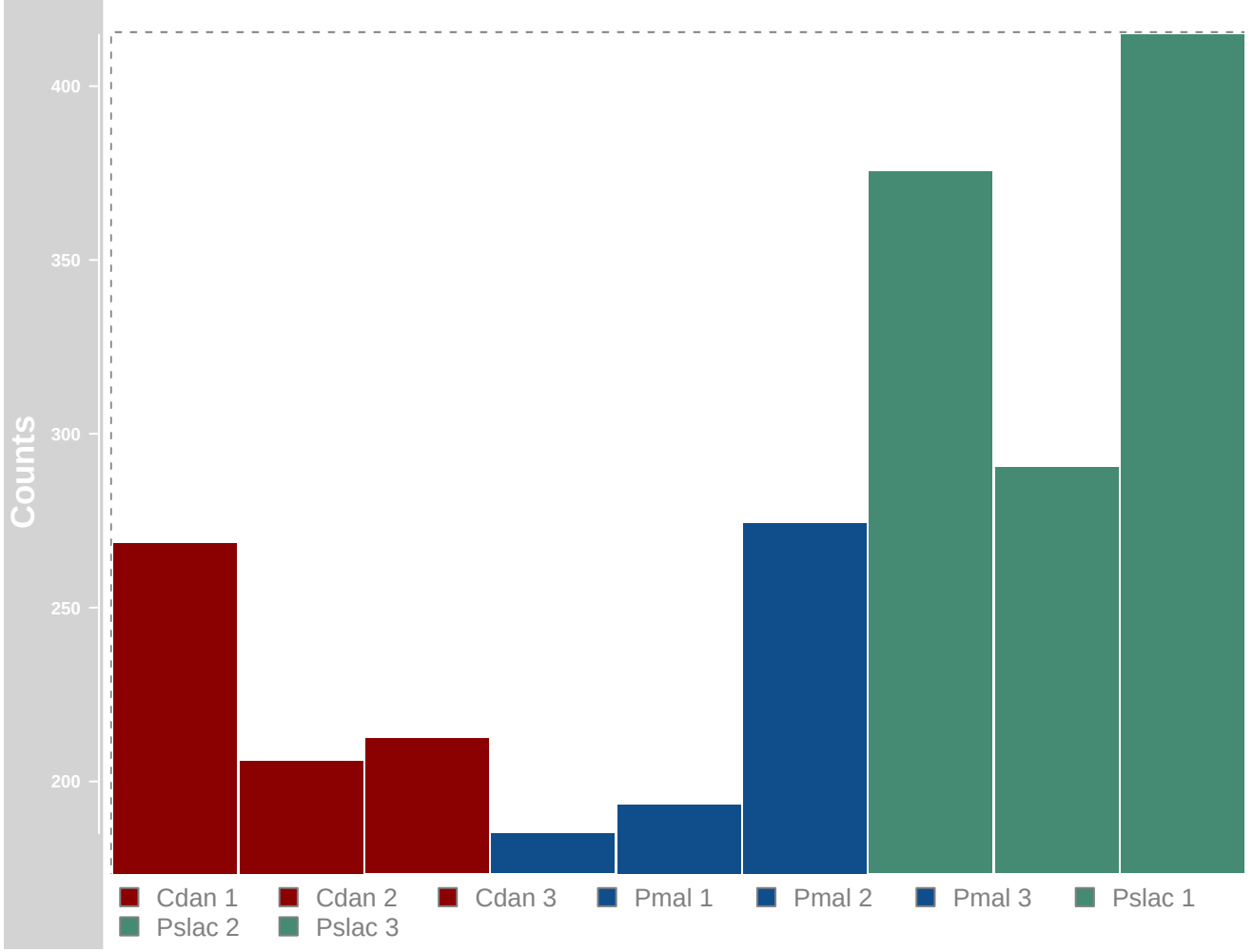
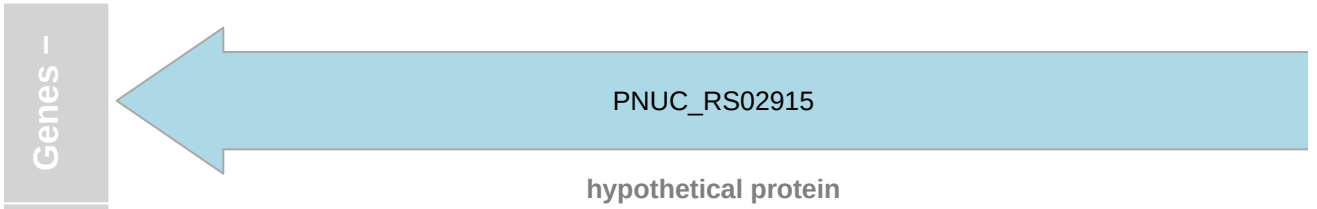
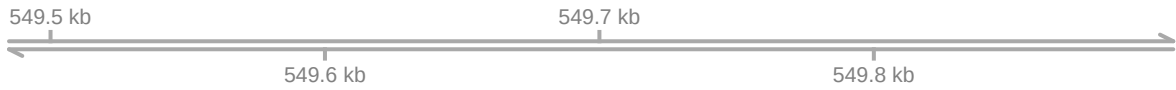
hypothetical protein

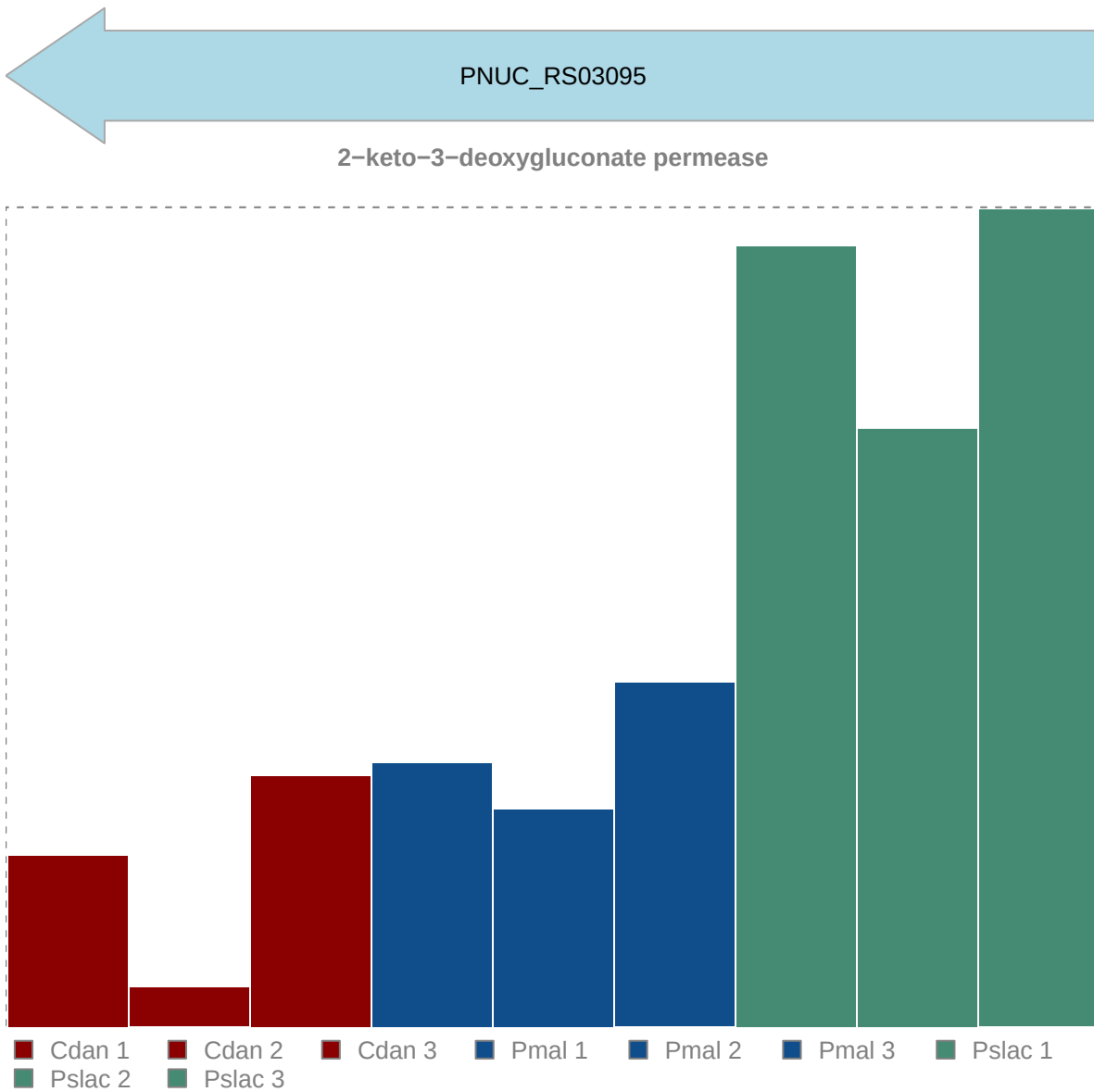
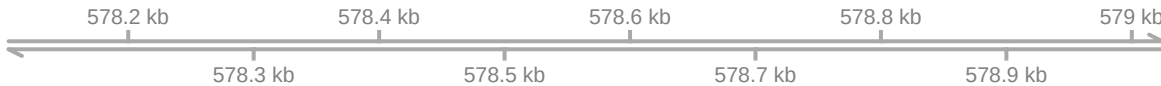
Counts

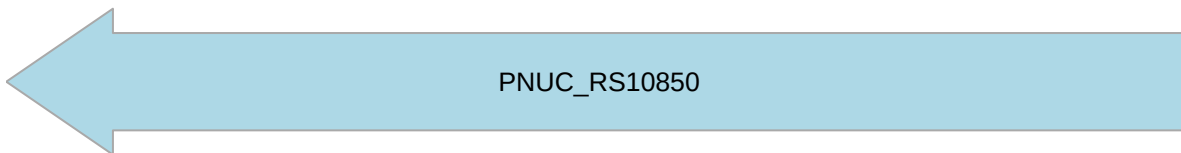


Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1 Pslac 2 Pslac 3

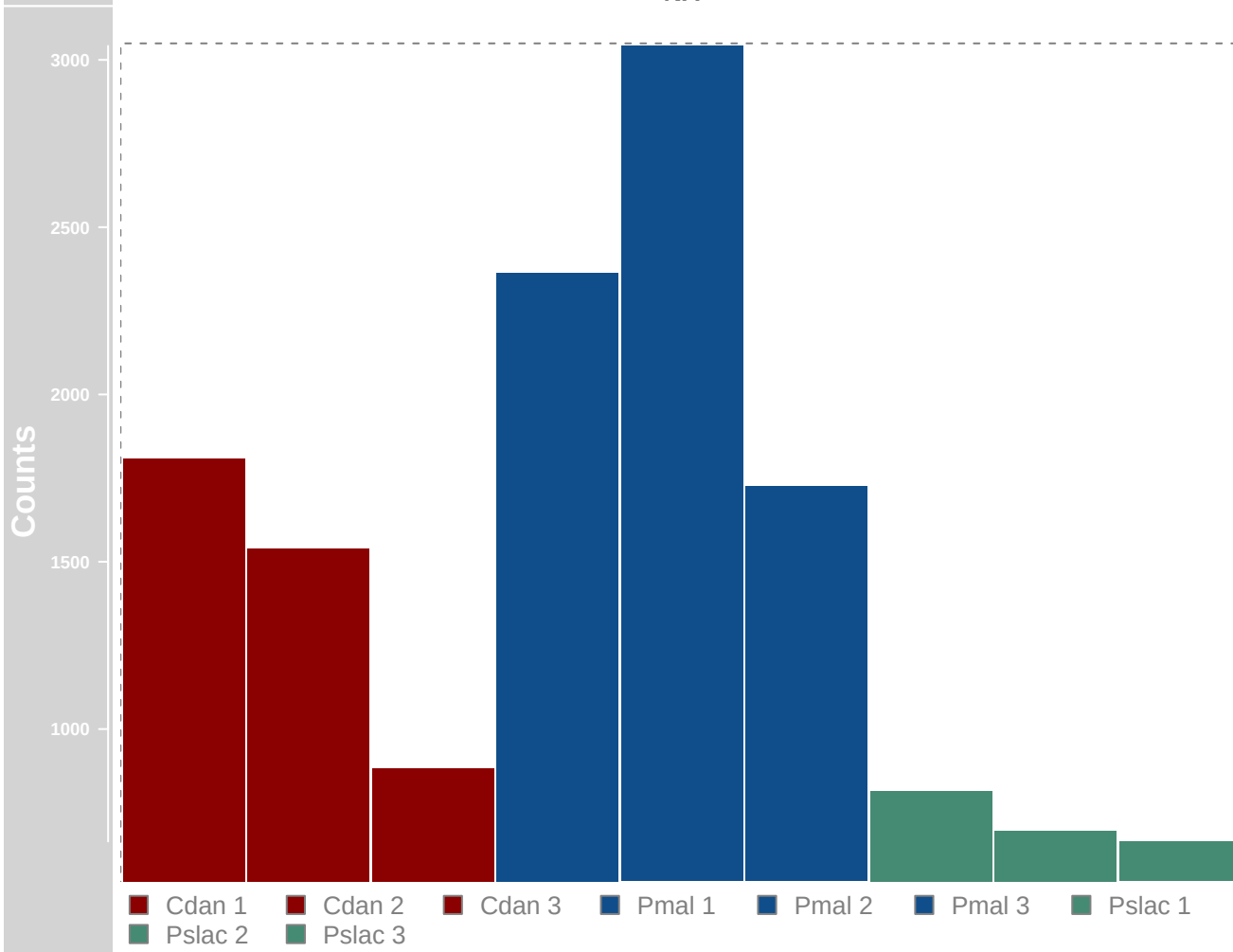


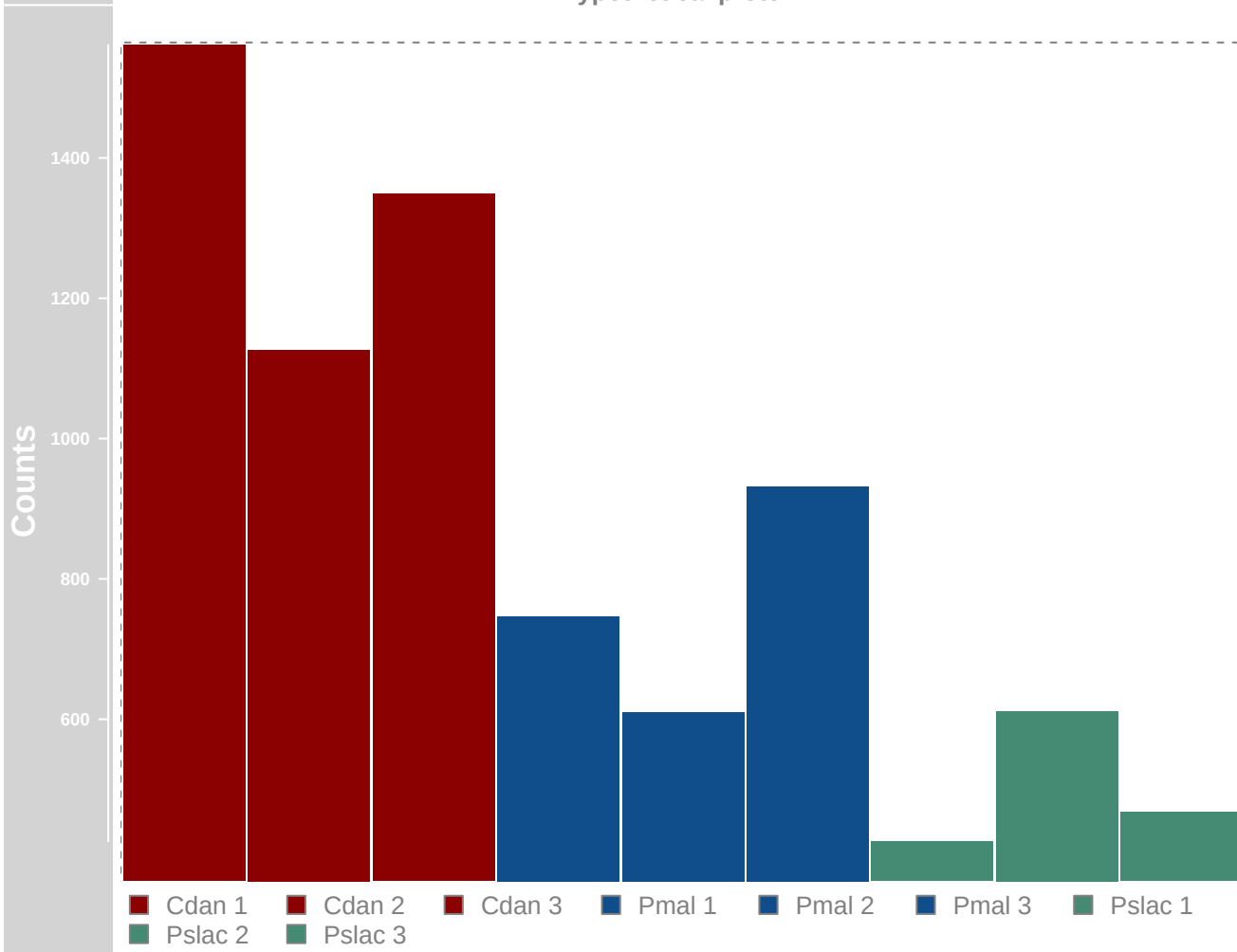
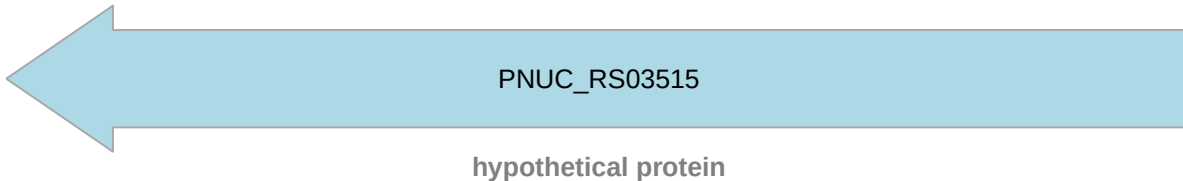


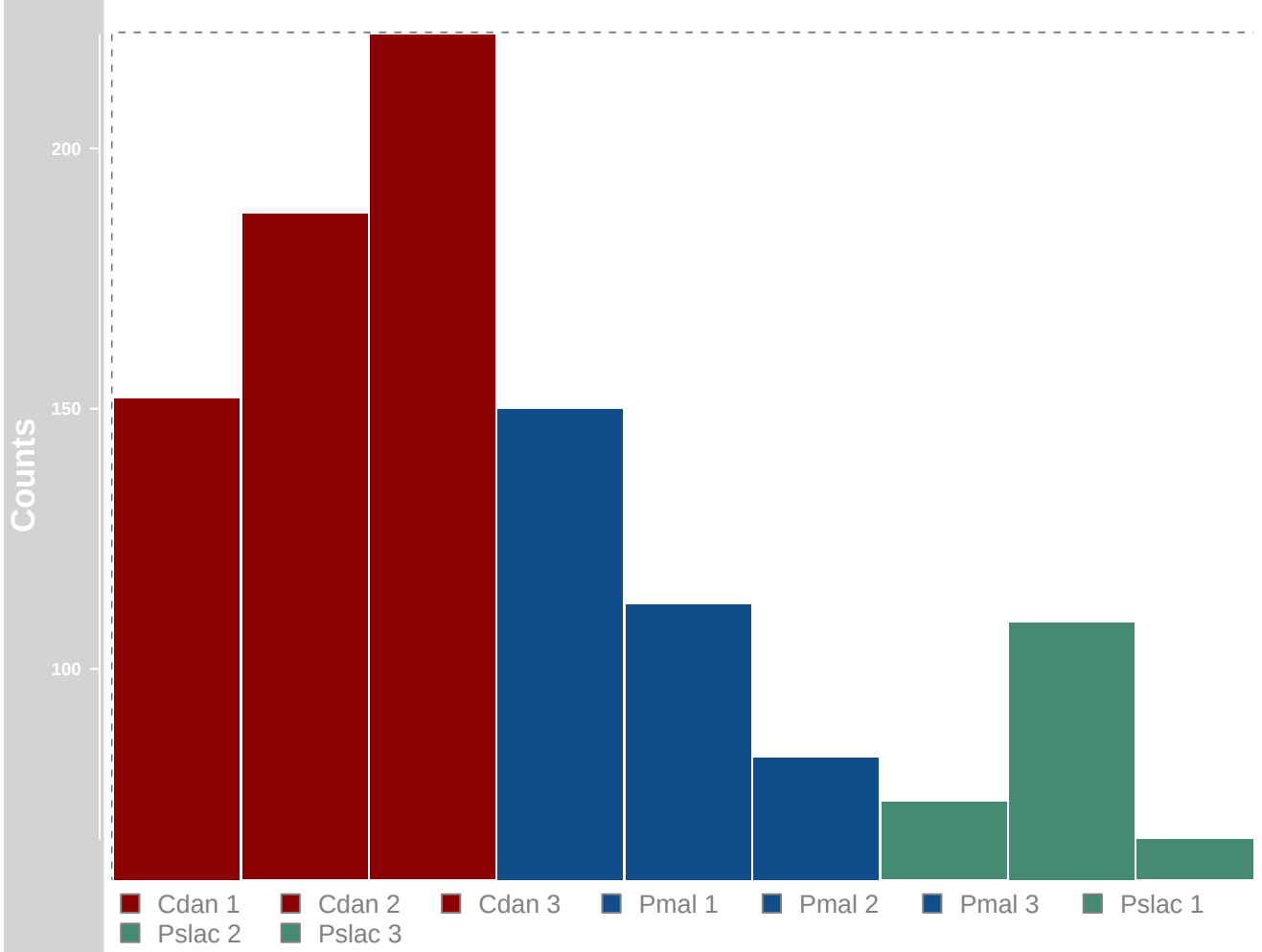
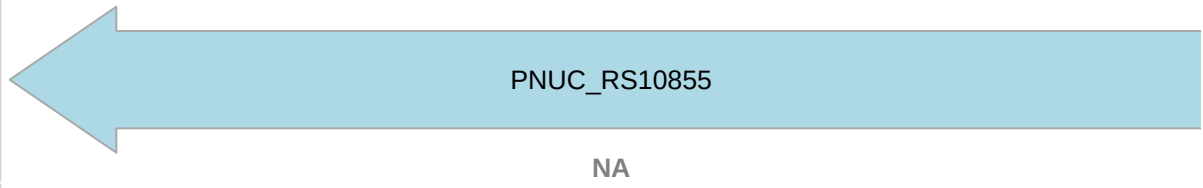
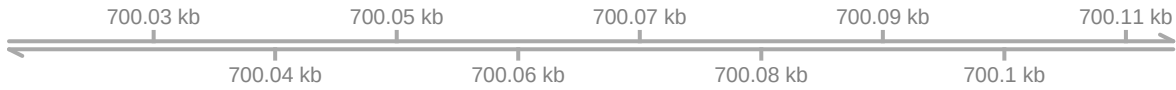




NA









Genes -

PNUC_RS04095

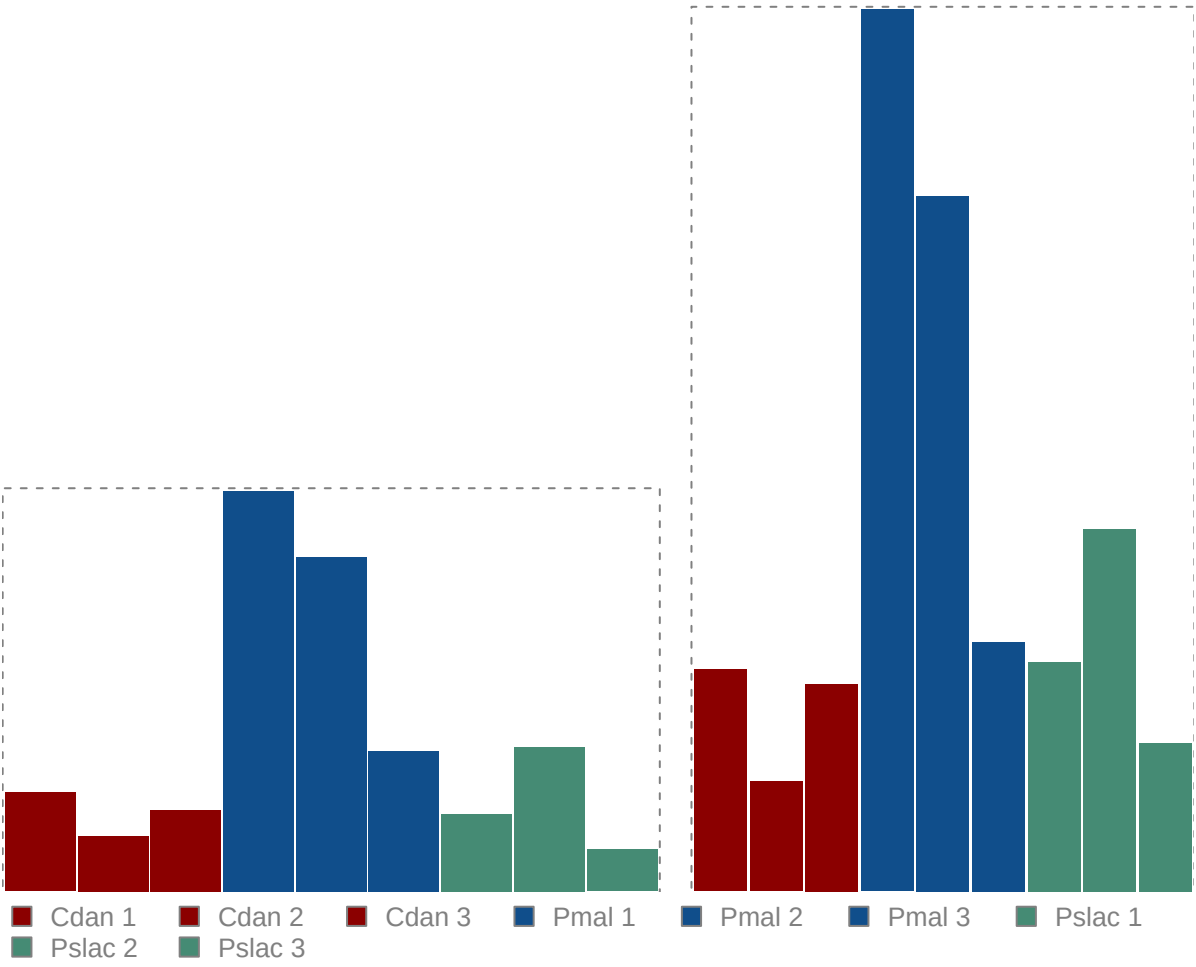
cytochrome c

PNUC_RS04100

cytochrome c

Counts

500
400
300
200
100



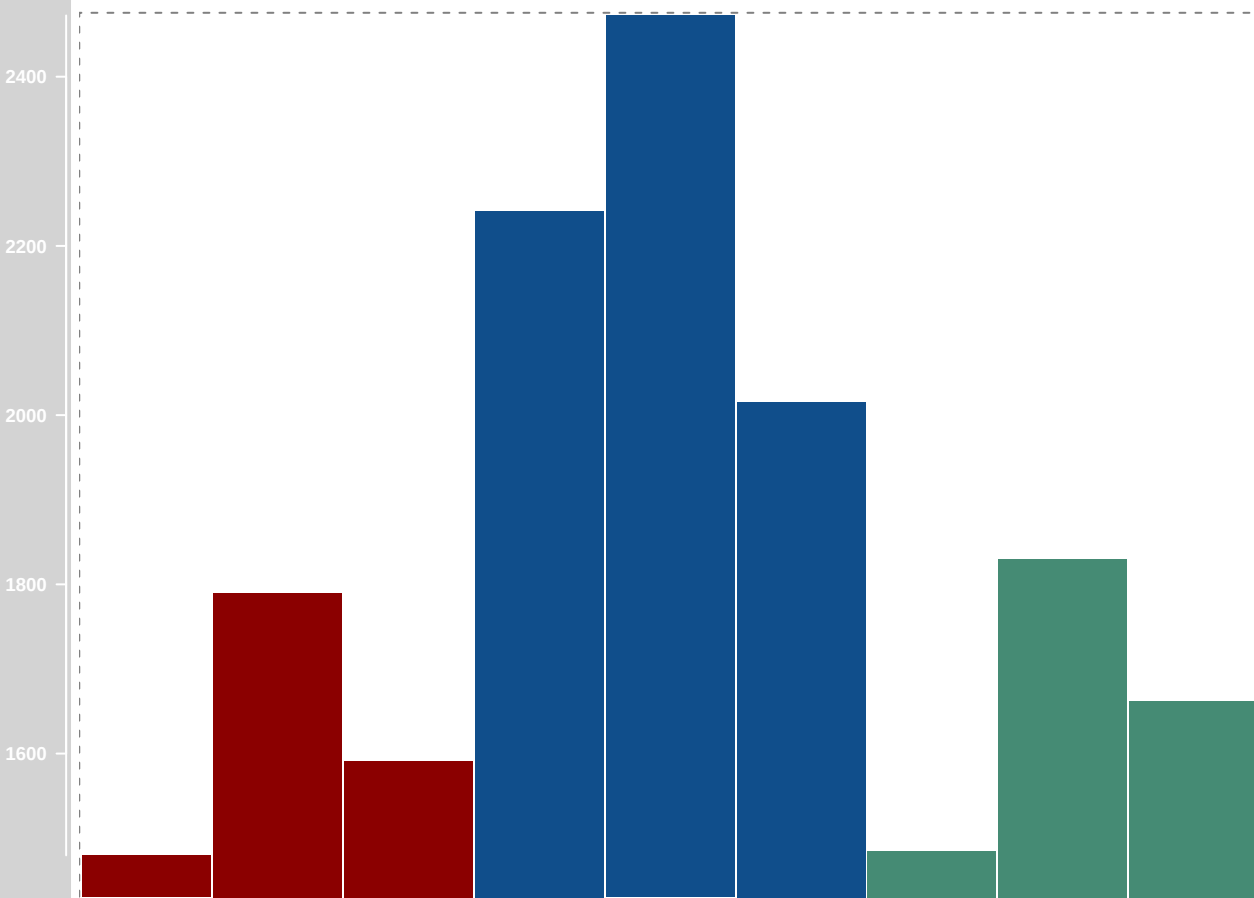


Genes -

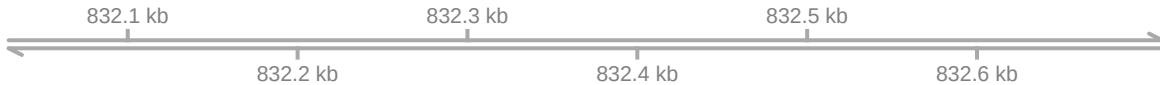
PNUC_RS04255

acyl-CoA dehydrogenase

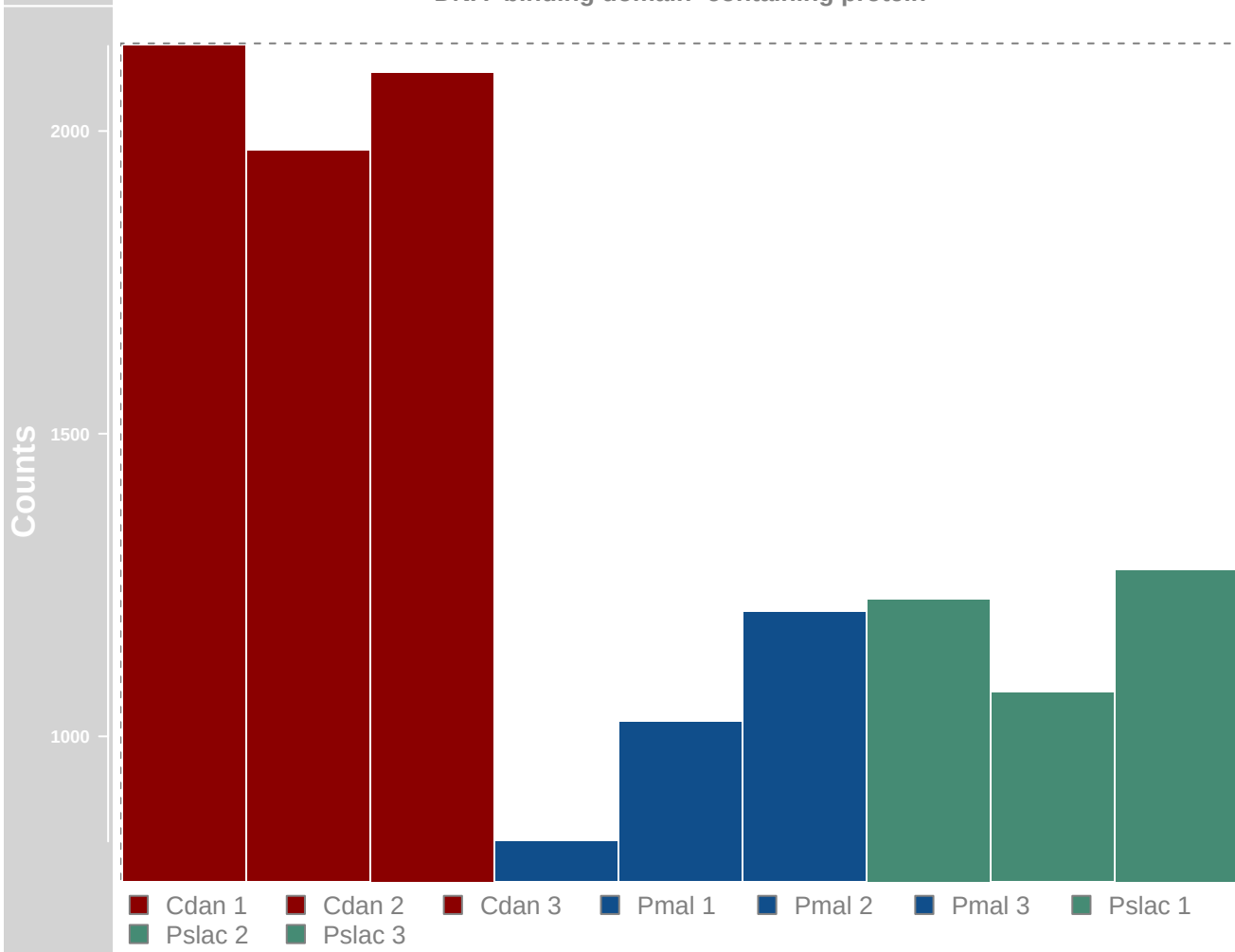
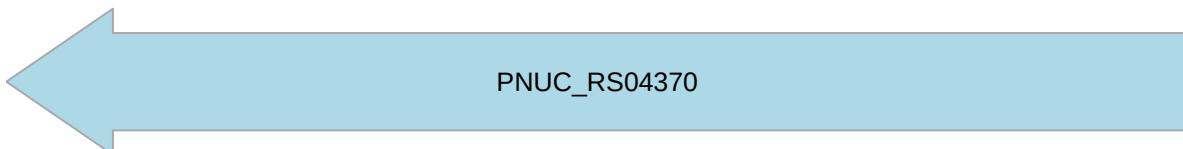
Counts

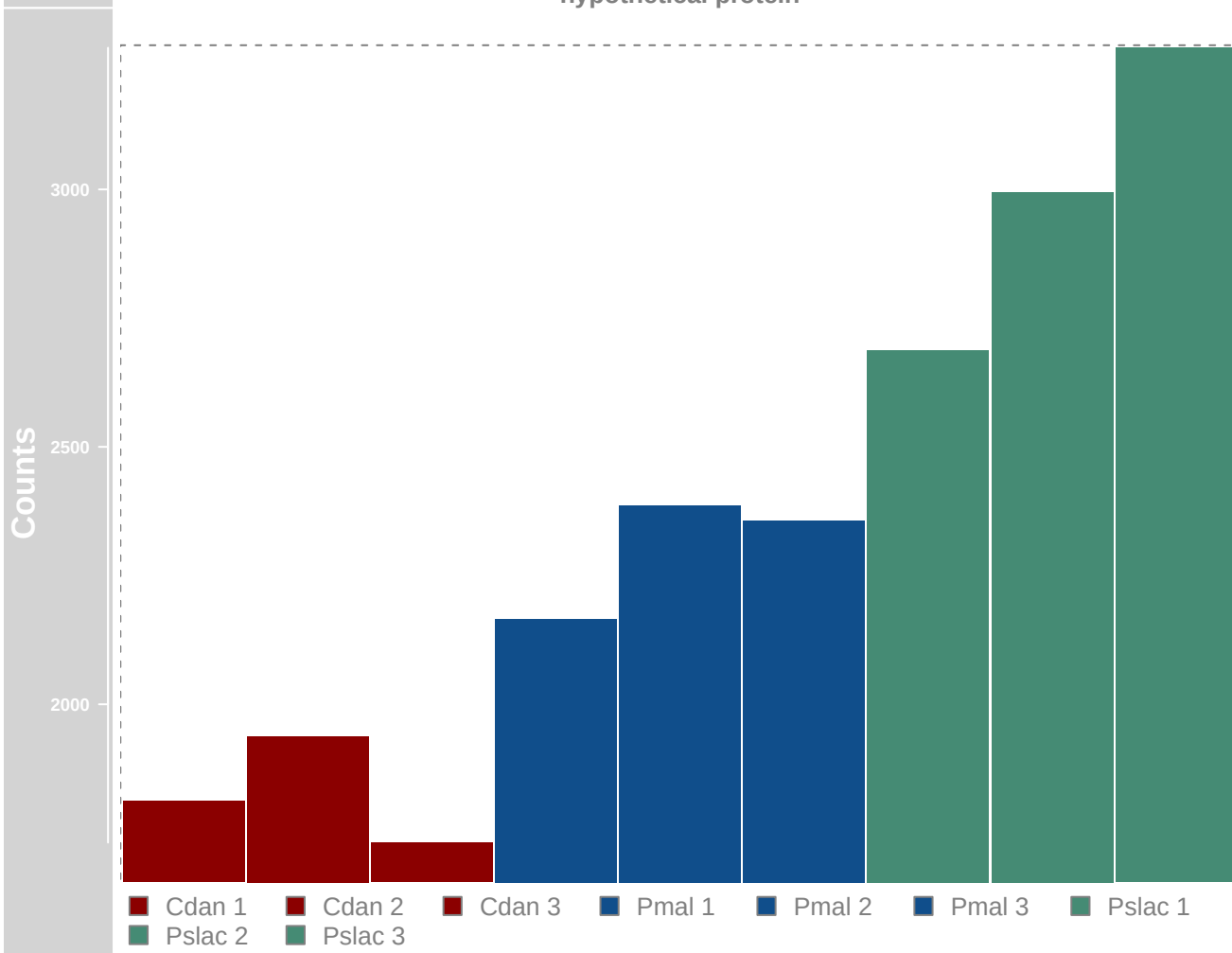
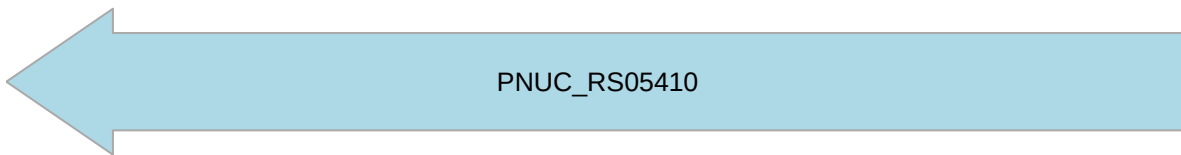
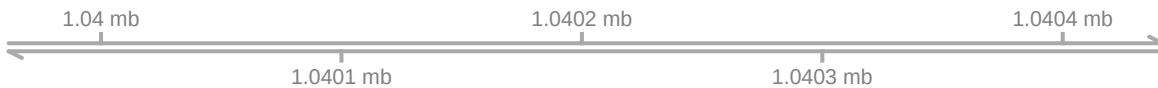


Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1 Pslac 2 Pslac 3



Genes -







Genes -

PNUC_RS05680

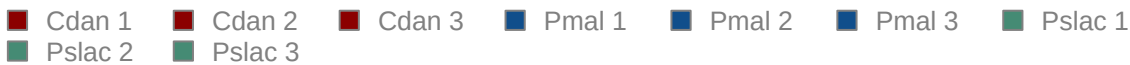
benzoylformate decarboxylase

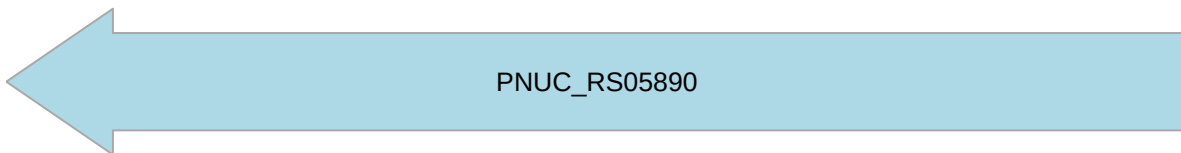
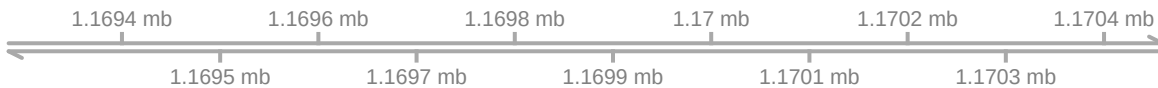
Counts

1800

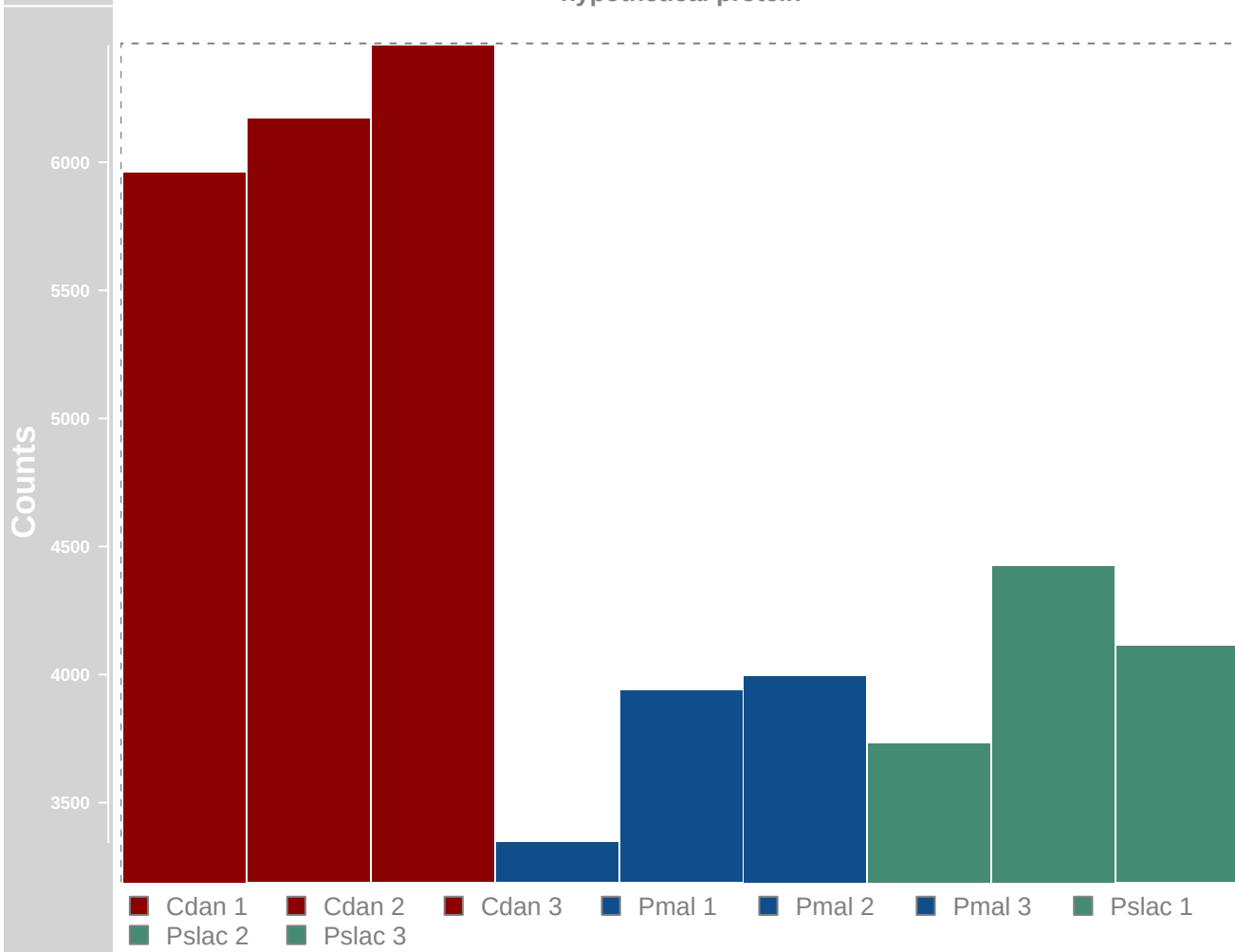
1600

1400





hypothetical protein

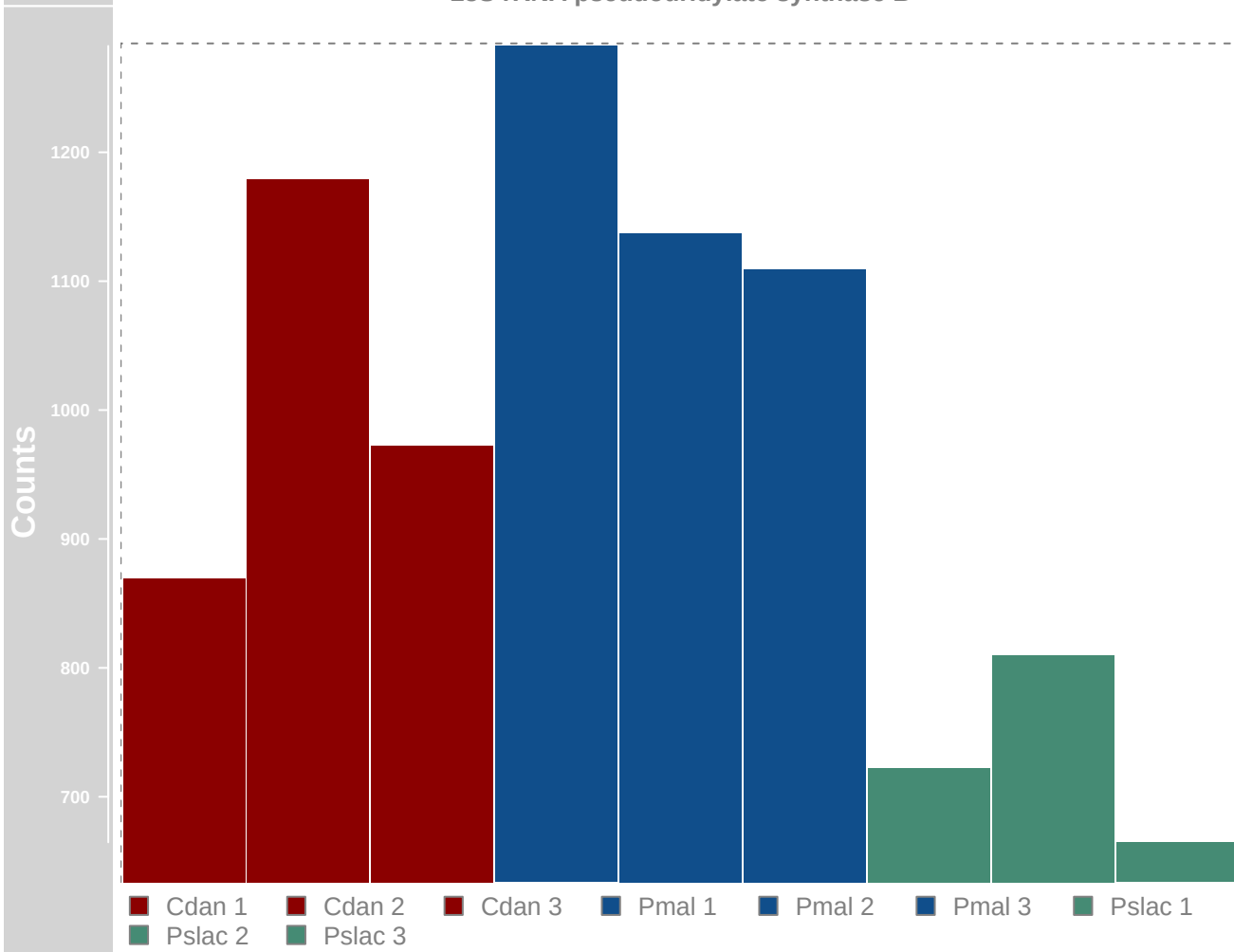


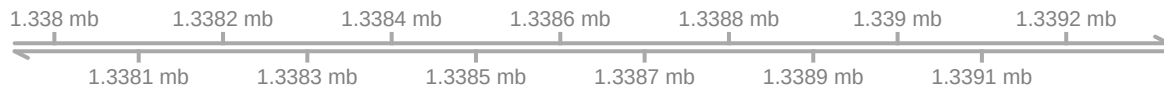


Genes -

PNUC_RS06460

23S rRNA pseudouridylate synthase B



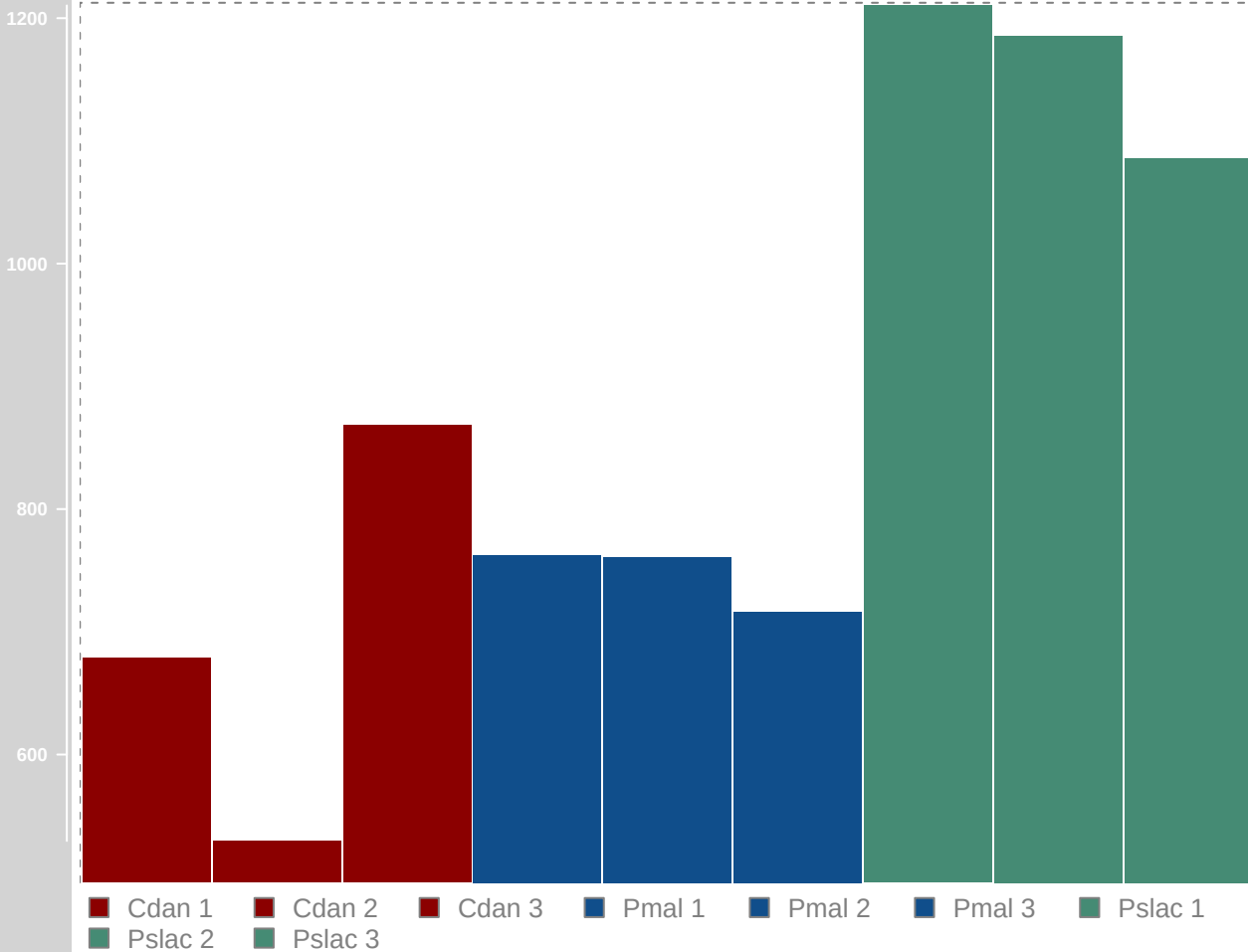


Genes -

PNUC_RS06650

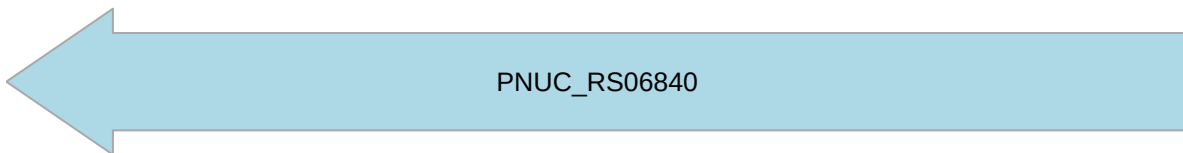
transporter

Counts

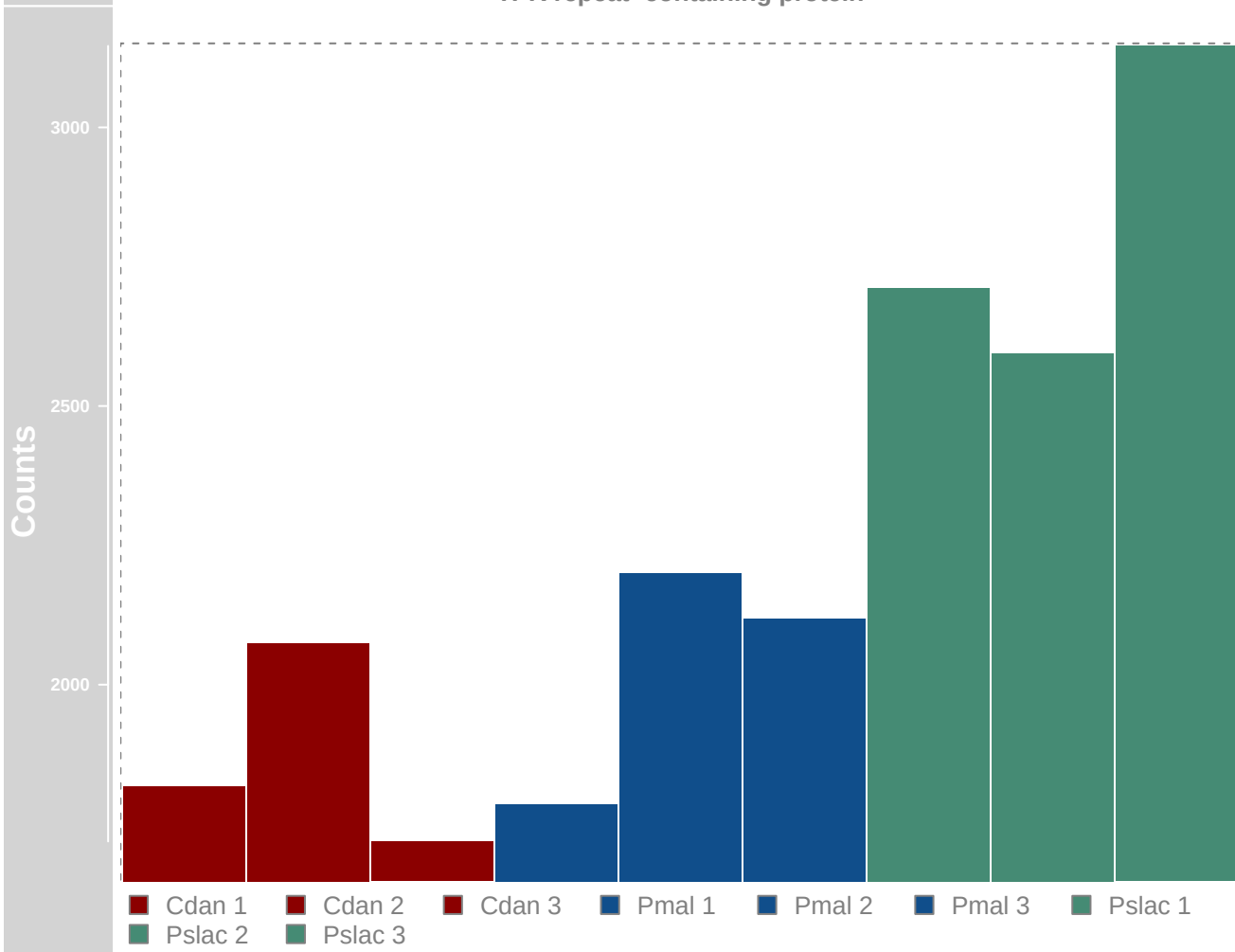


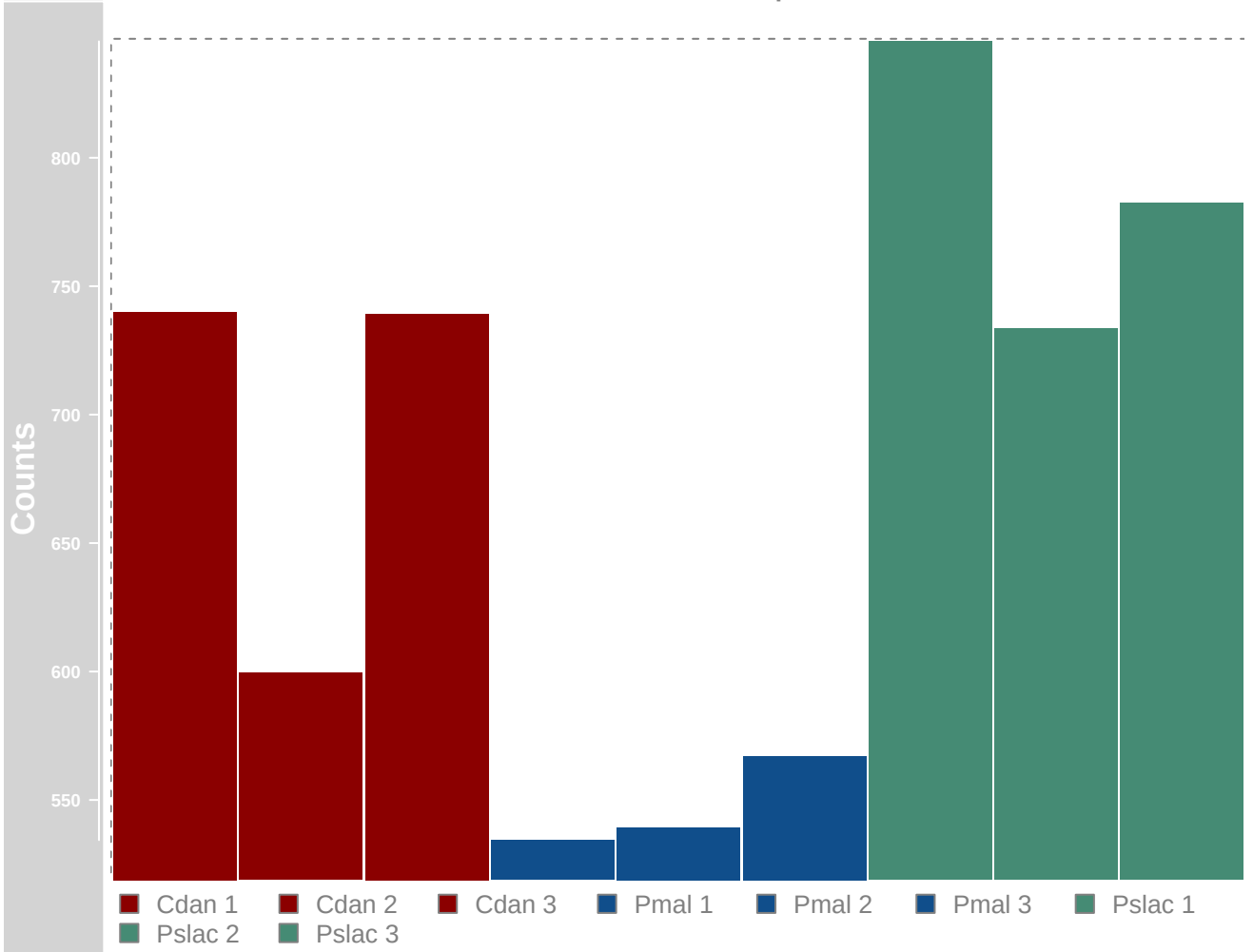
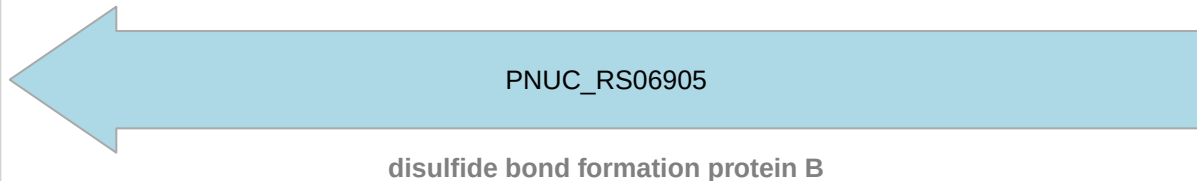
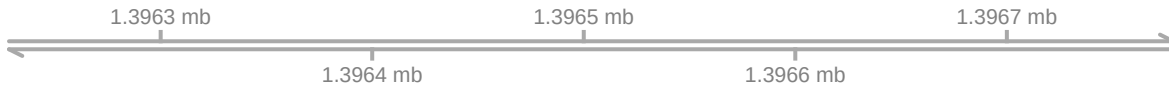


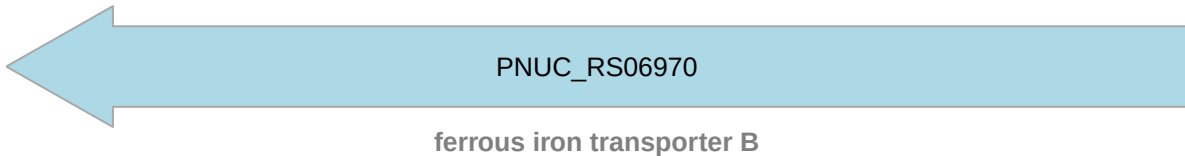
Genes -



TPR repeat-containing protein

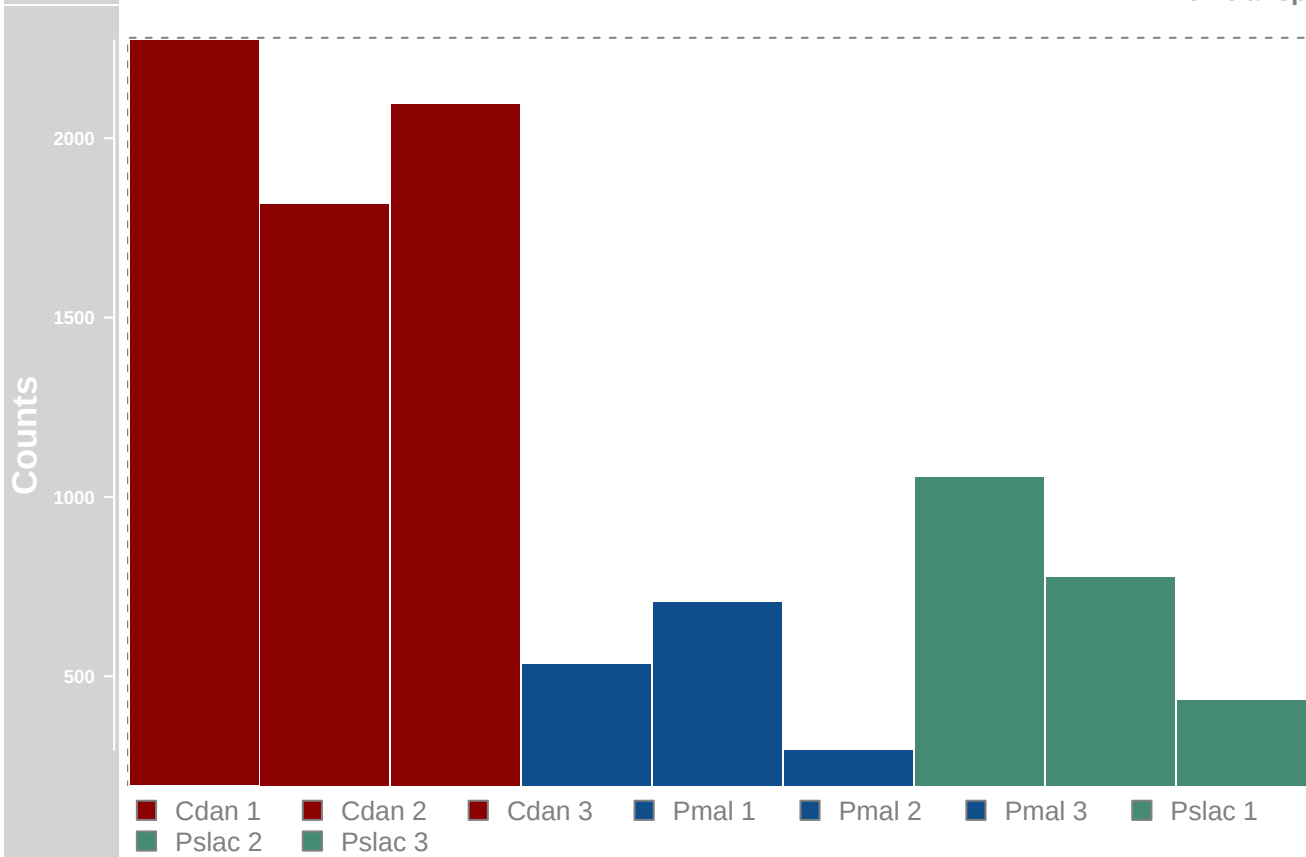


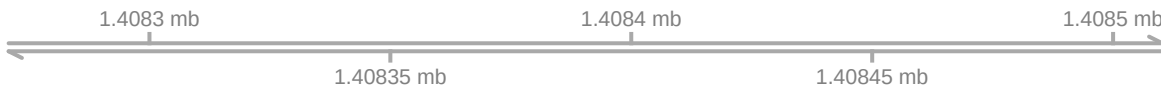




PM

iron transp

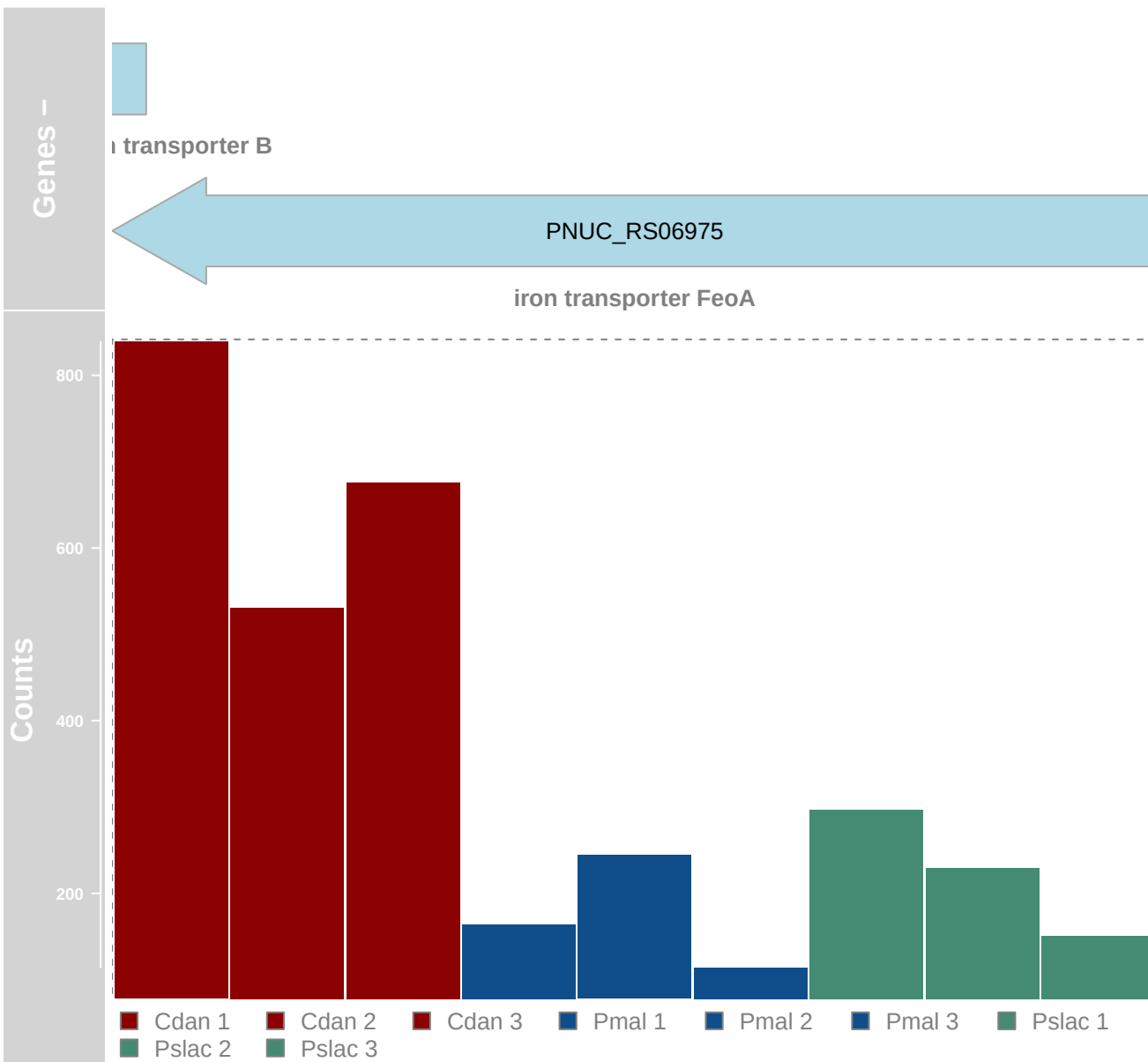


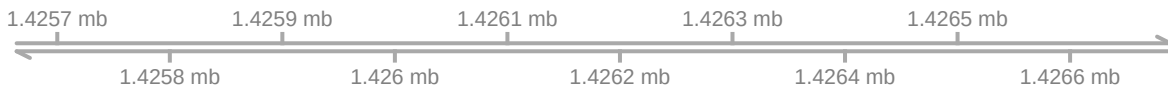


iron transporter B

PNUC_RS06975

iron transporter FeoA

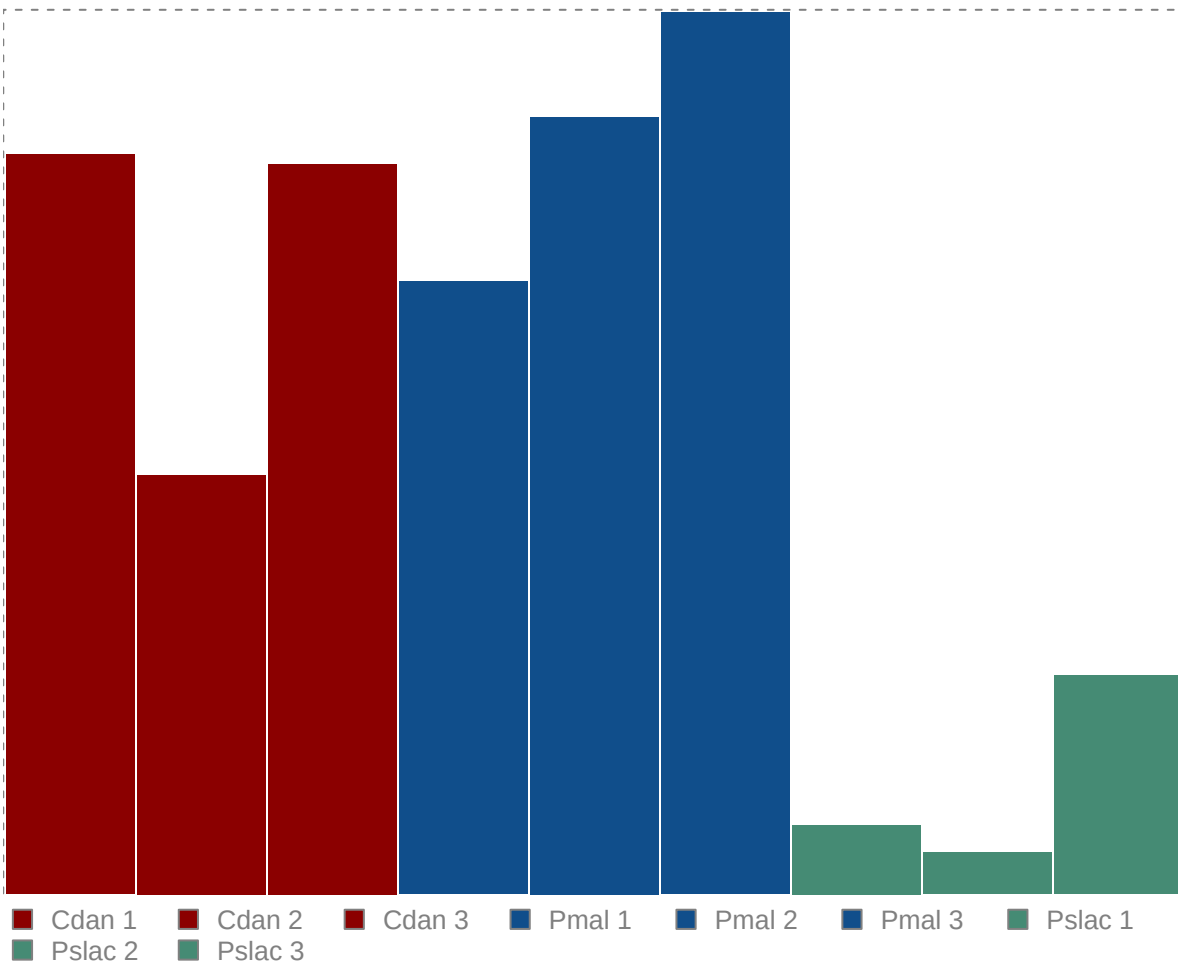


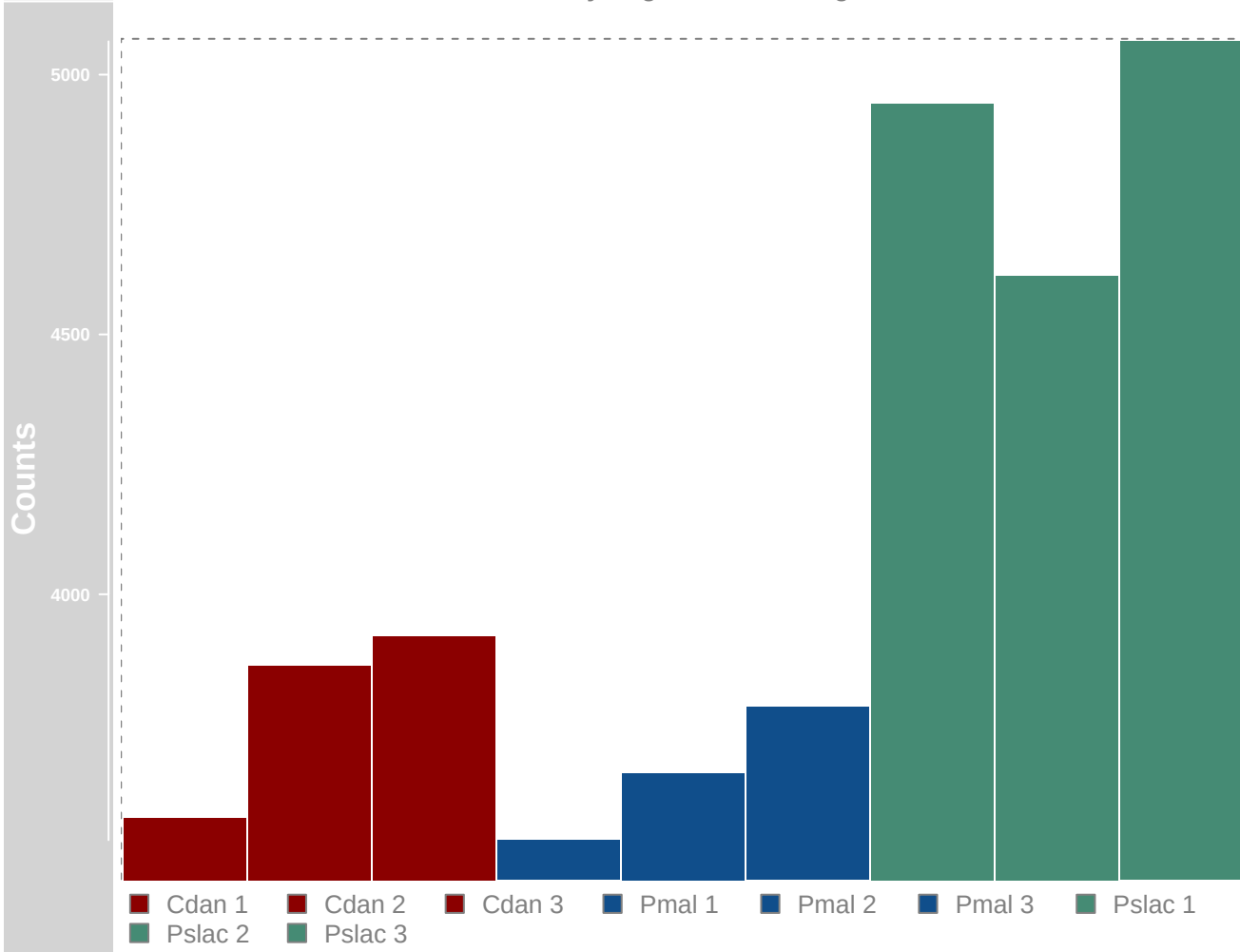
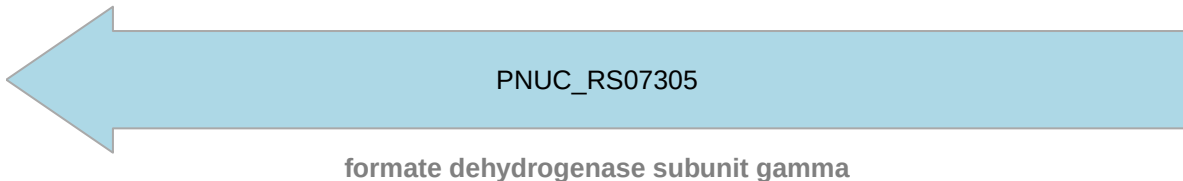
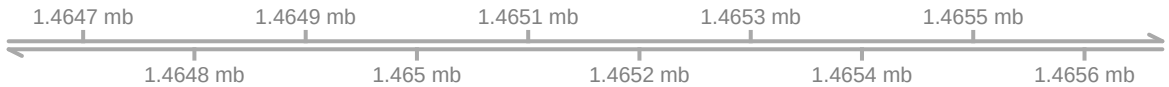


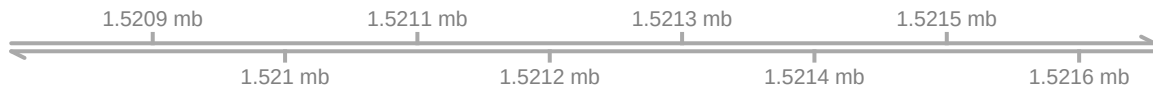
Genes -

PNUC_RS07080

2-keto-4-pentenoate hydratase



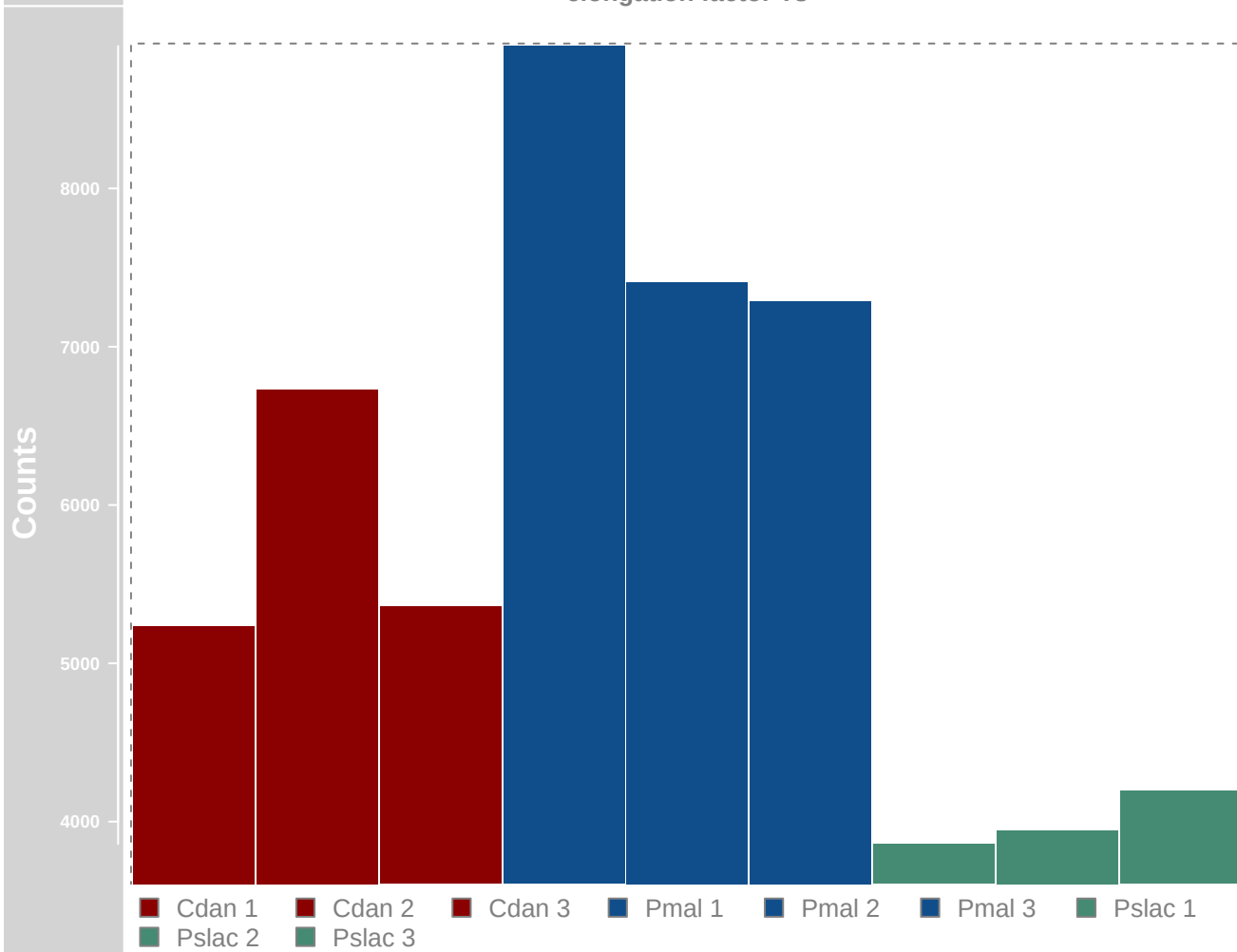


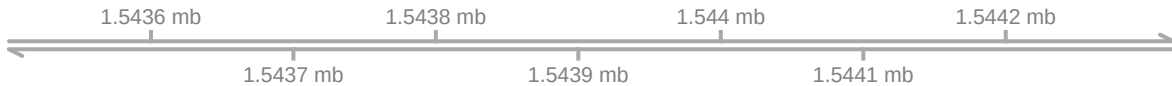


Genes -

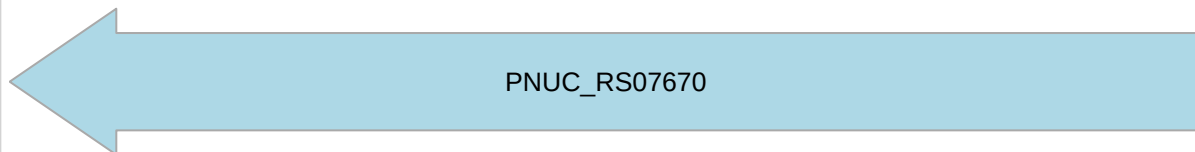
PNUC_RS07585

elongation factor Ts



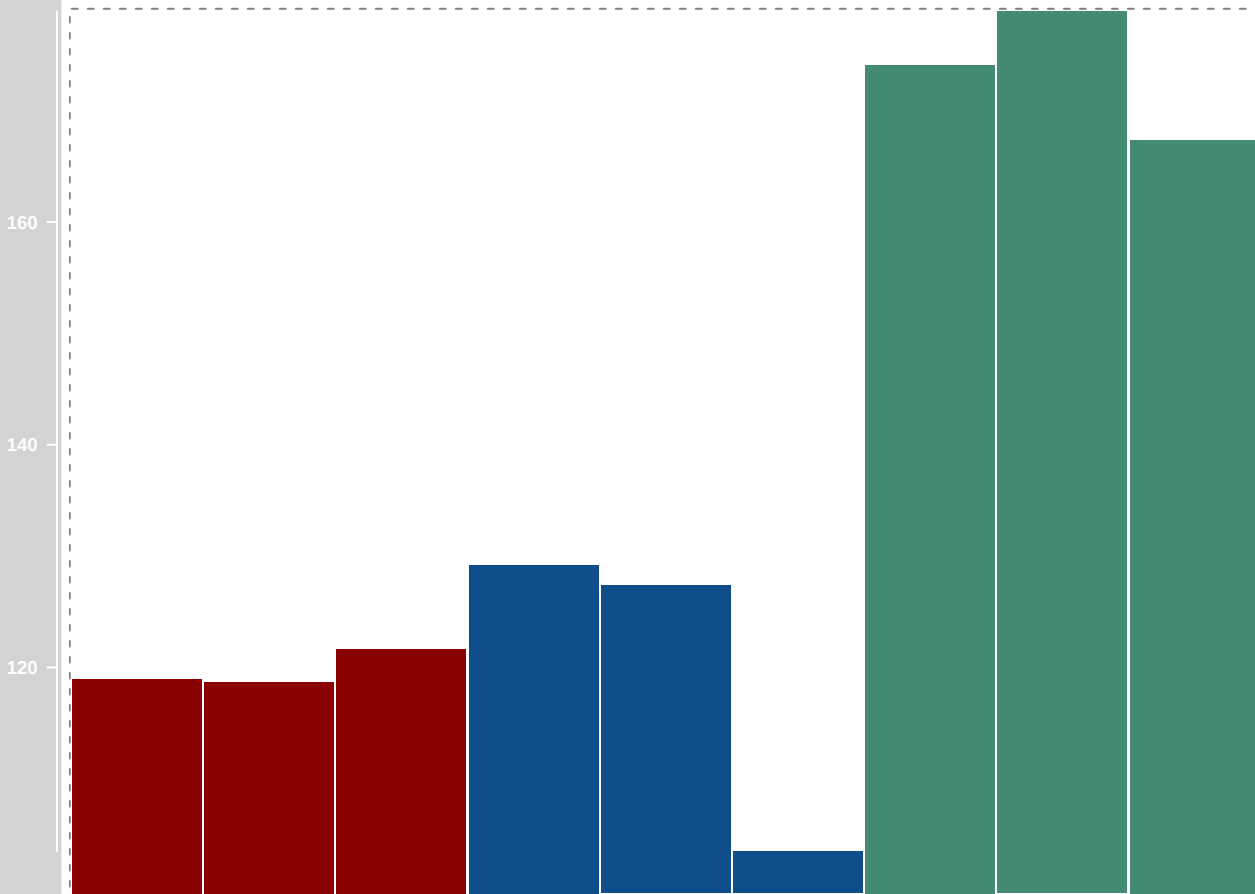


Genes -

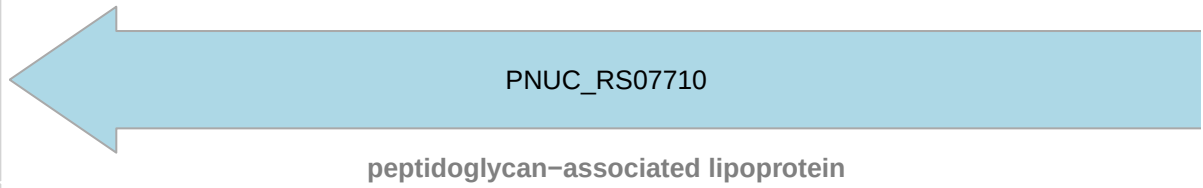


hypothetical protein

Counts

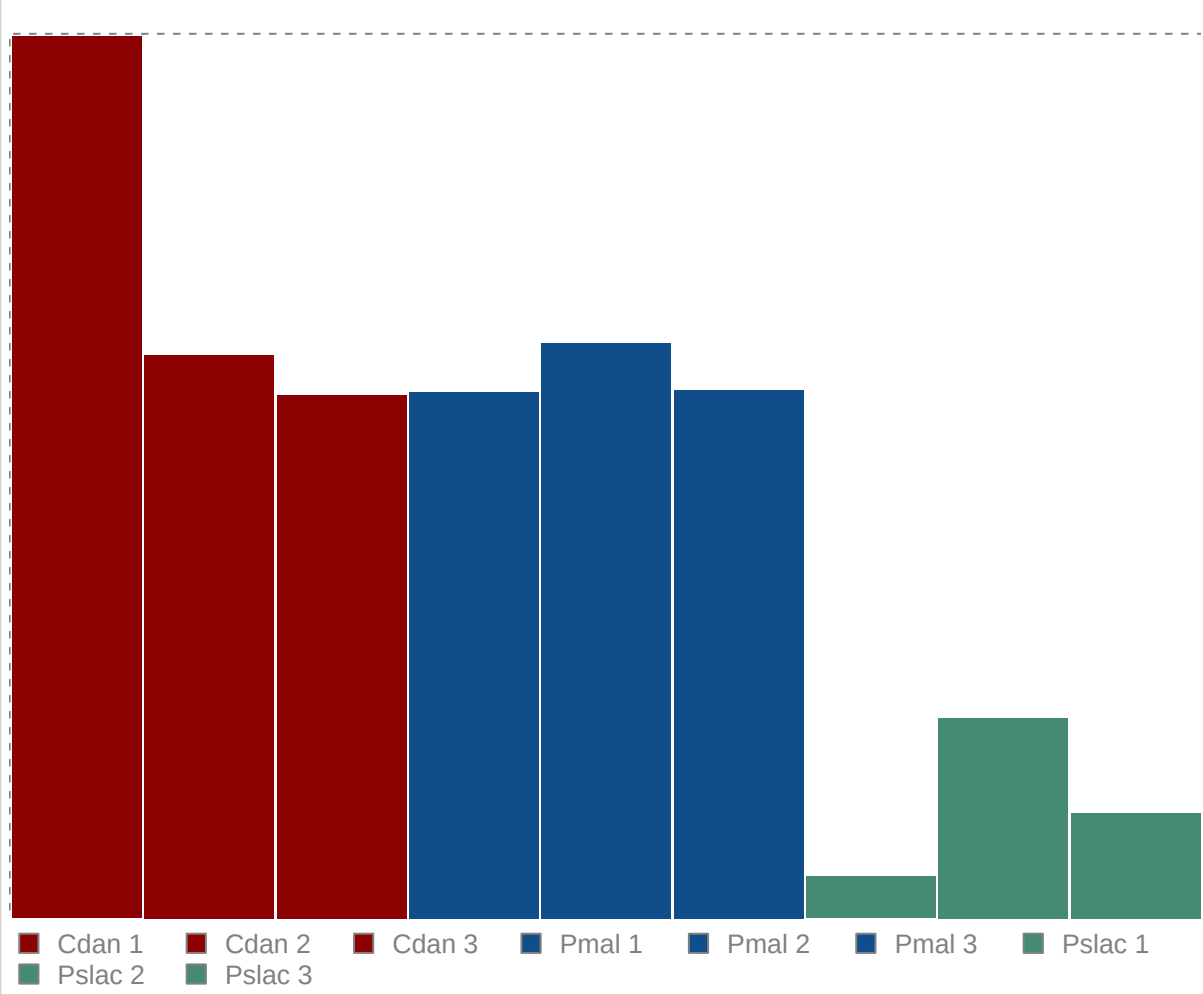


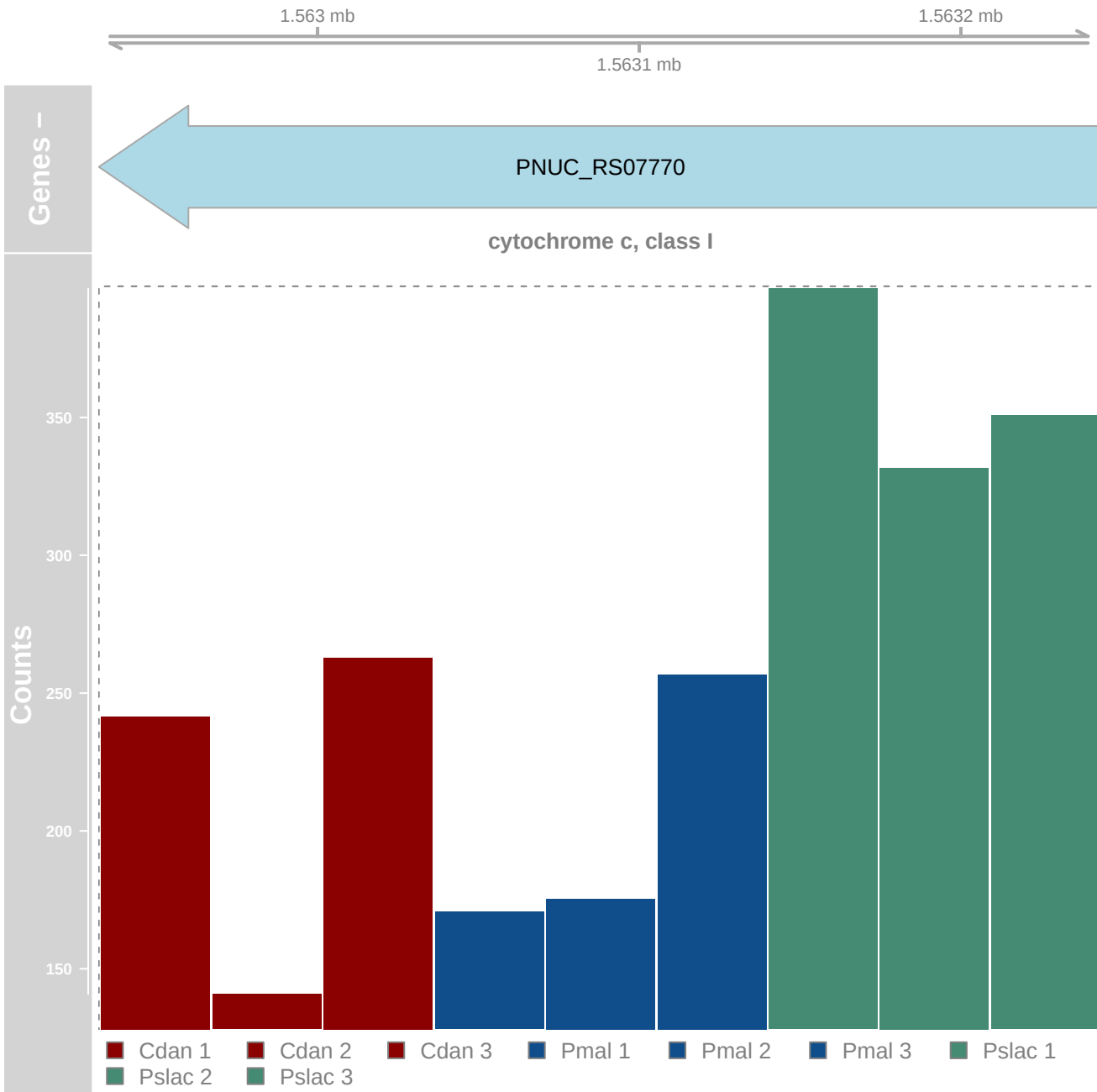
Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1 Pslac 2 Pslac 3

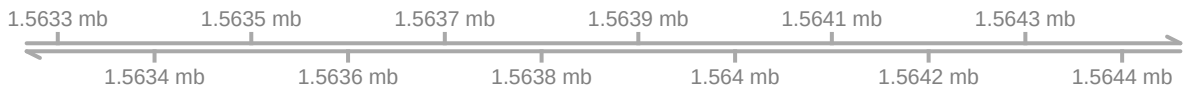


Genes -

Counts





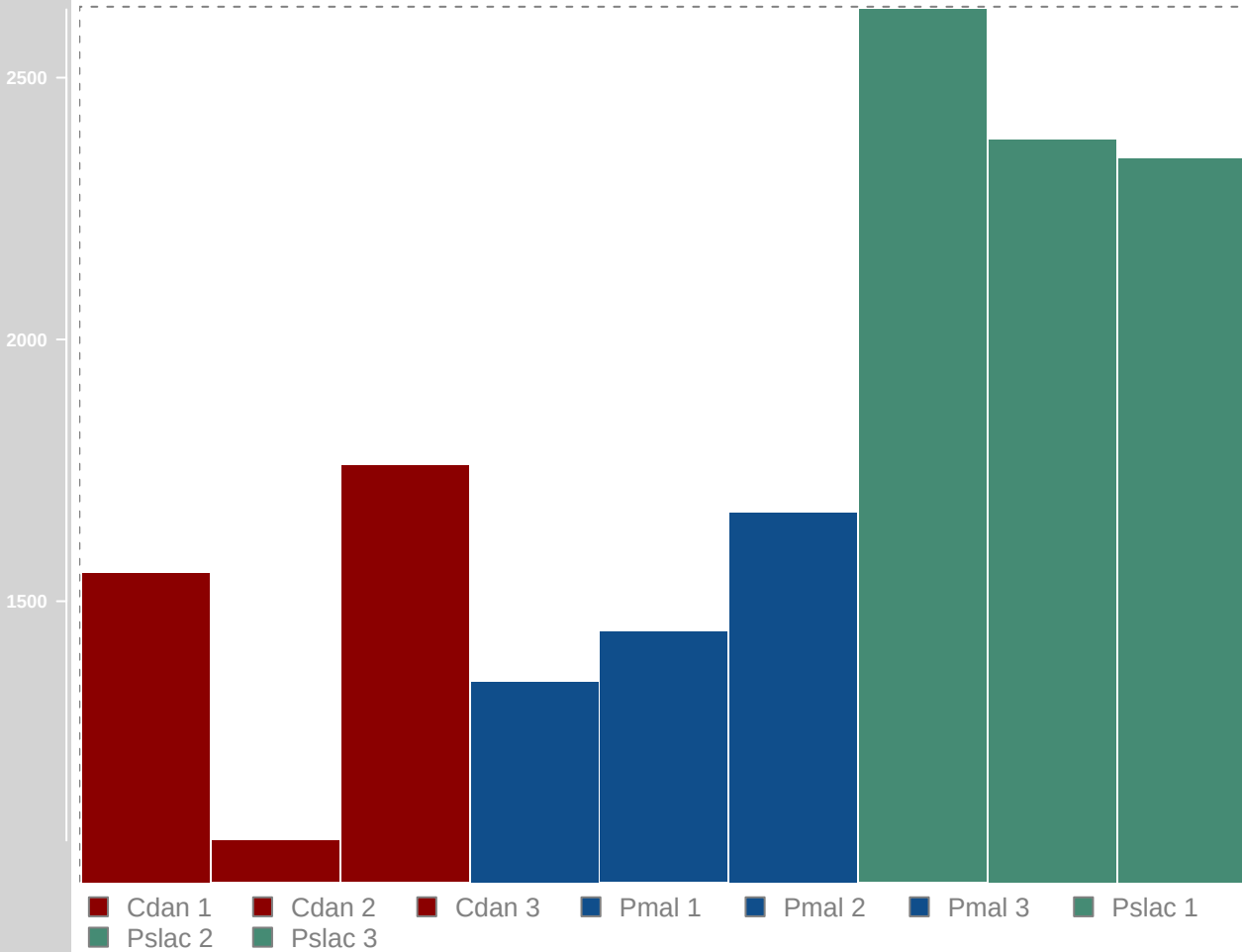


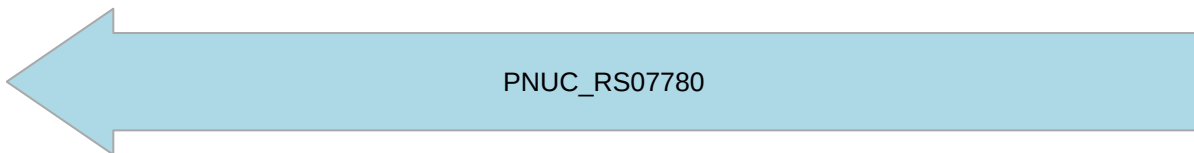
Genes -

PNUC_RS07775

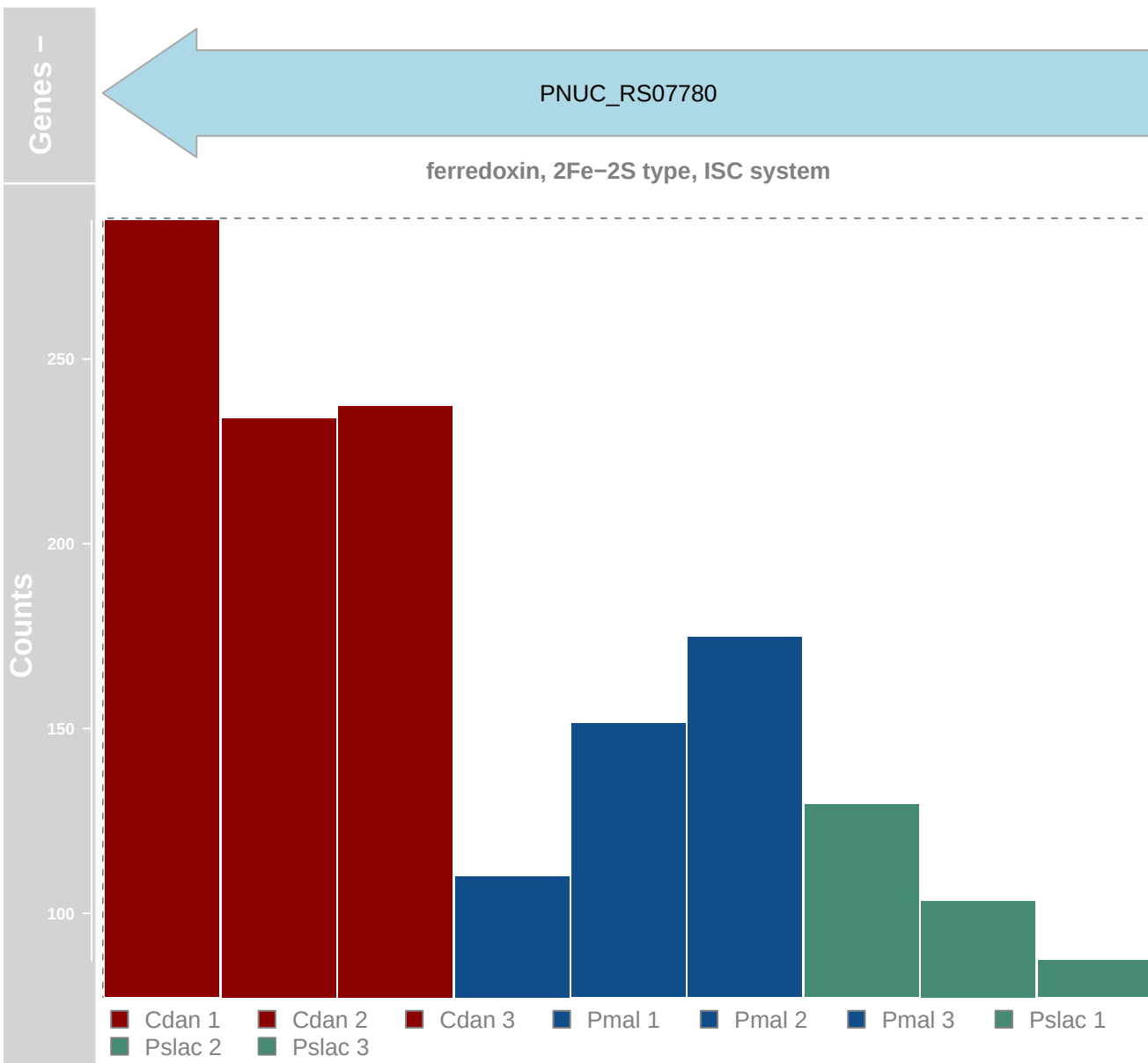
oxidase

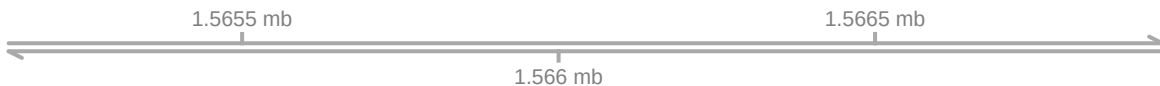
Counts





ferredoxin, 2Fe-2S type, ISC system



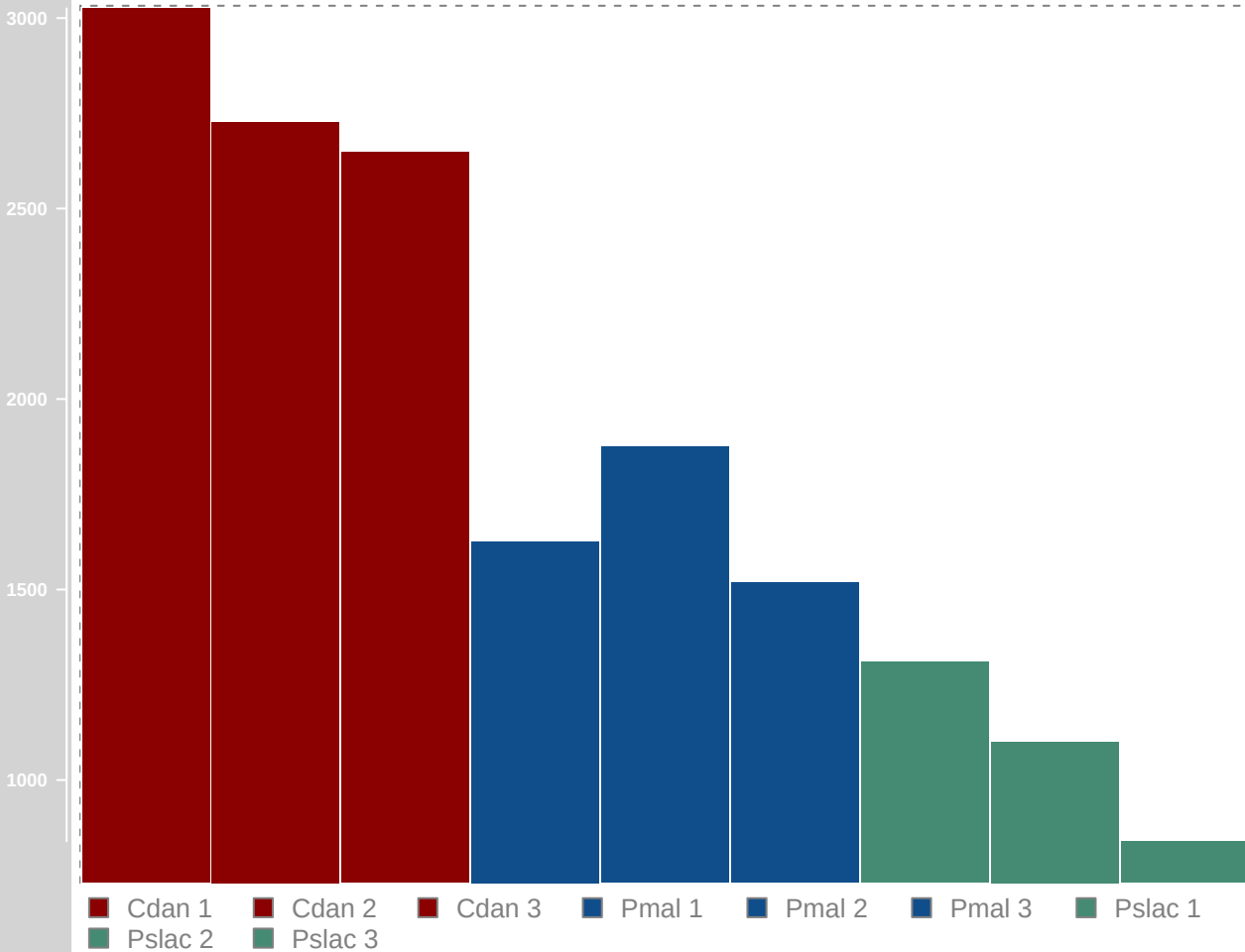


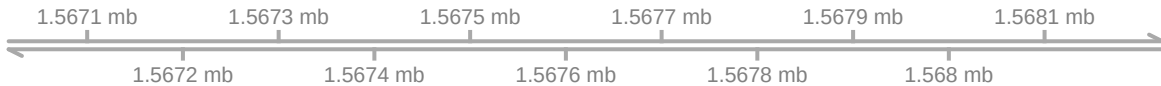
Genes -

PNUC_RS07785

molecular chaperone HscA

Counts

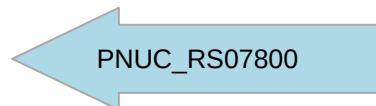




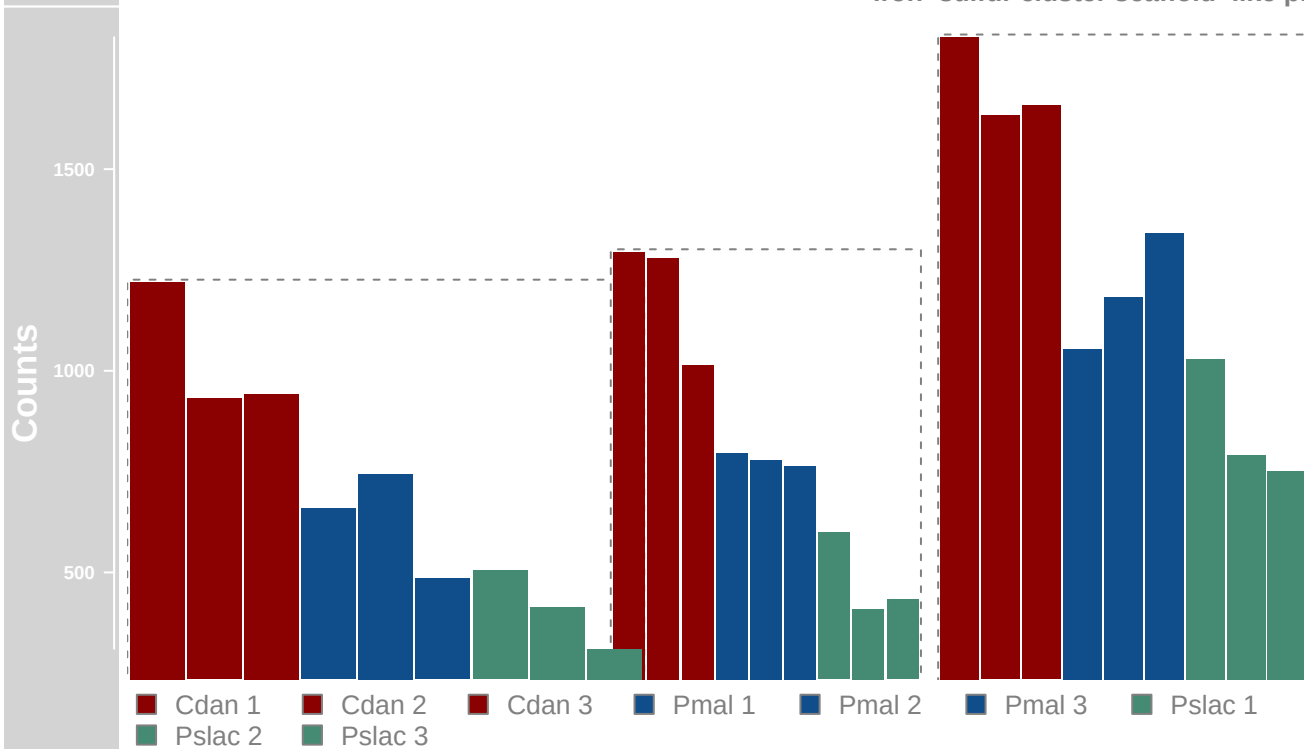
e-S protein assembly co-chaperone HscB



iron-sulfur cluster assembly protein IscA



iron-sulfur cluster scaffold-like pr



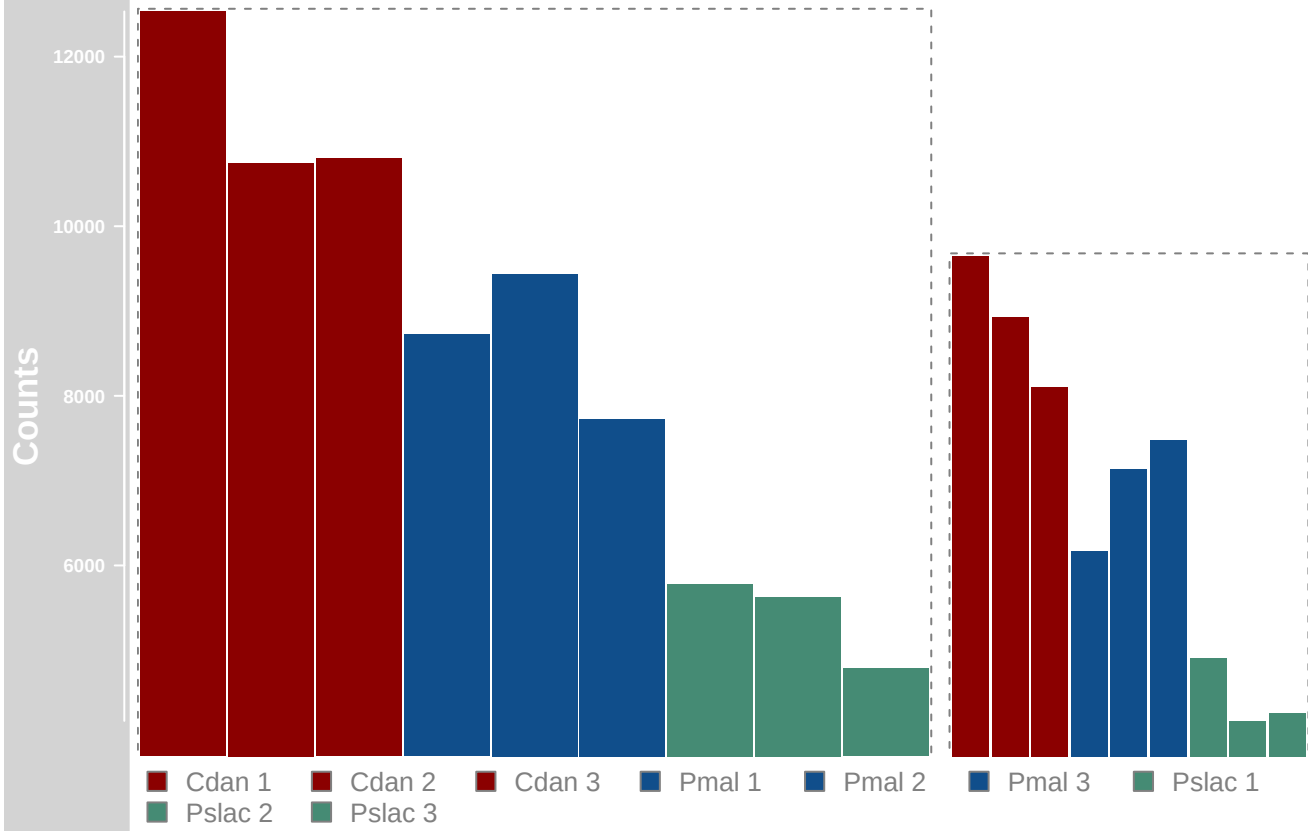


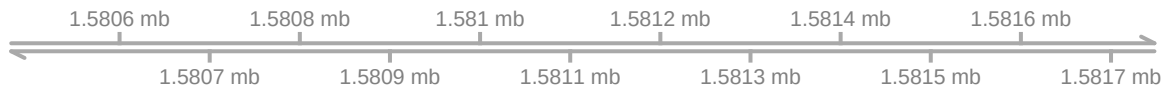
PNUC_RS07805

IscS subfamily cysteine desulfurase

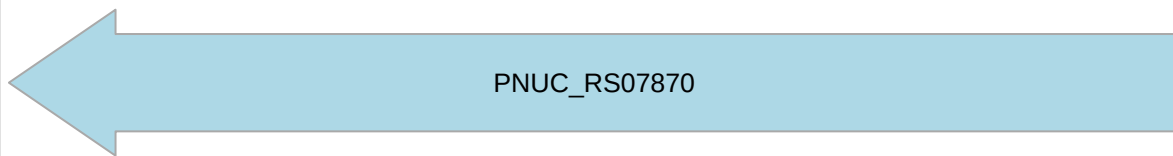
PNUC_RS07810

Rrf2 family transcriptional regulon

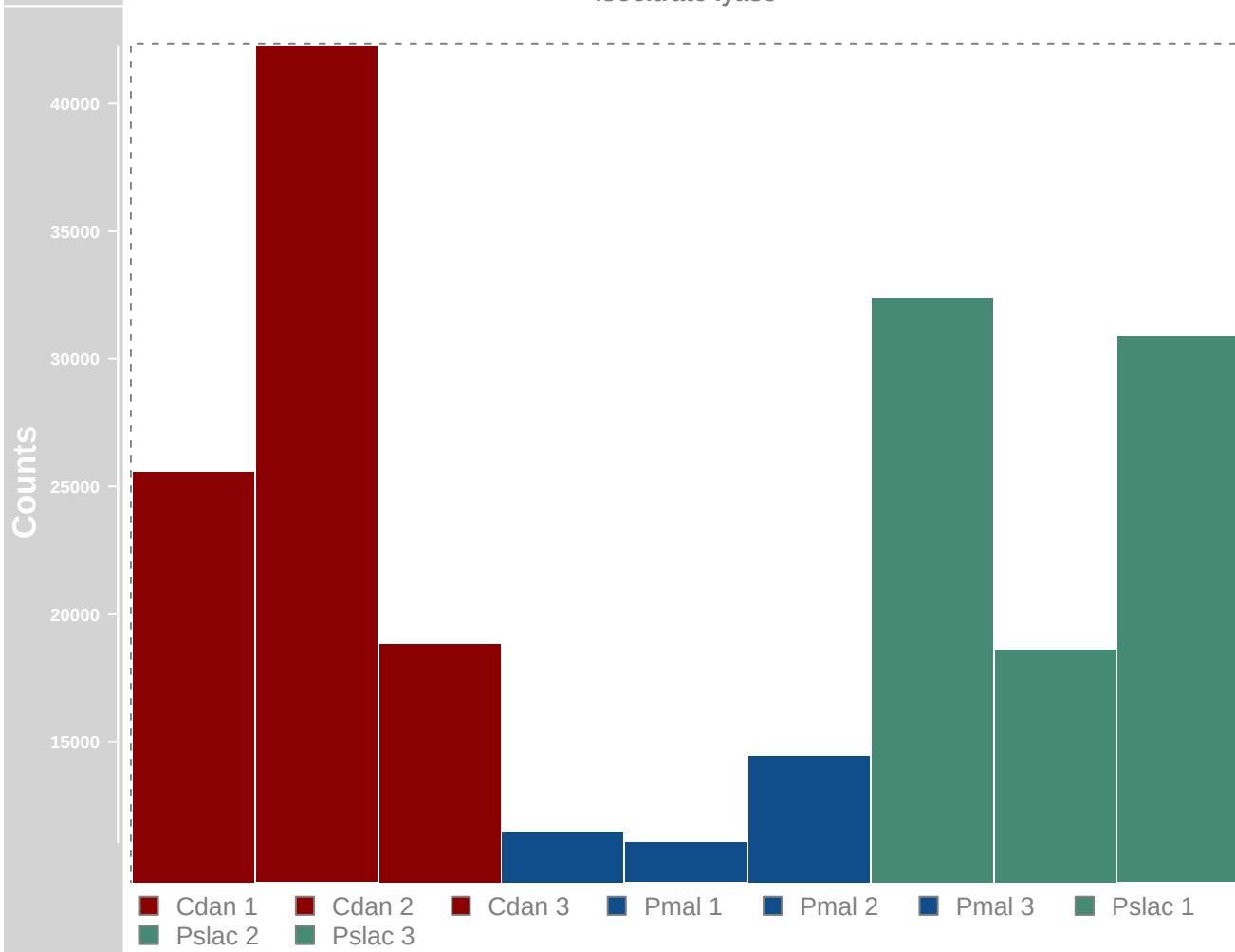


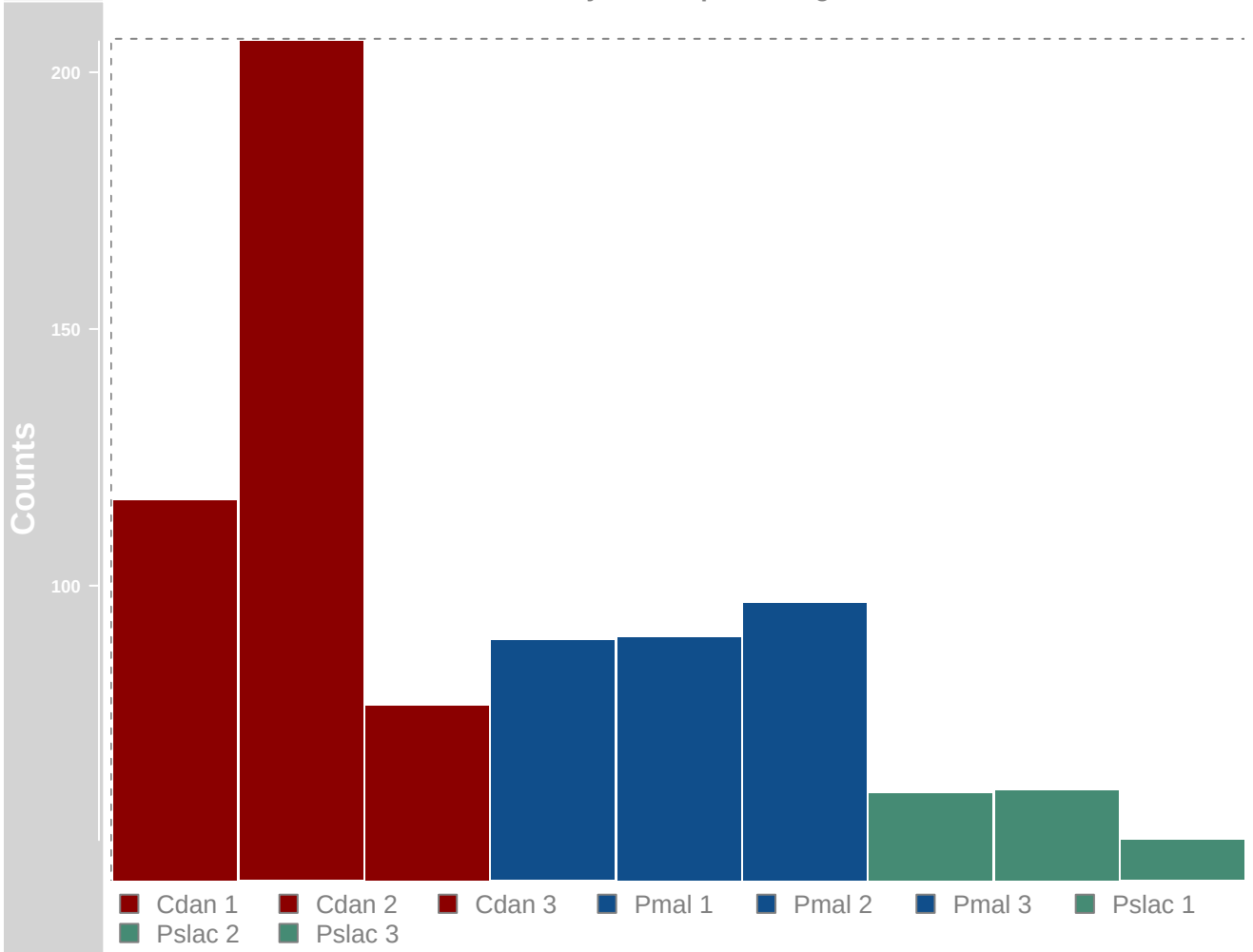
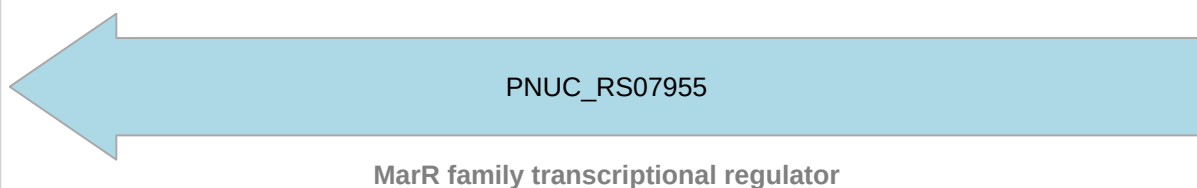
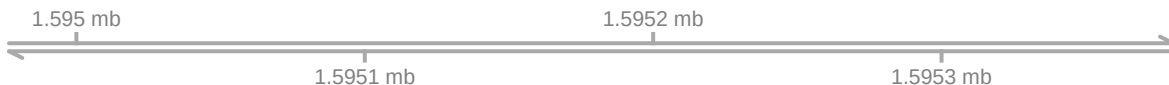


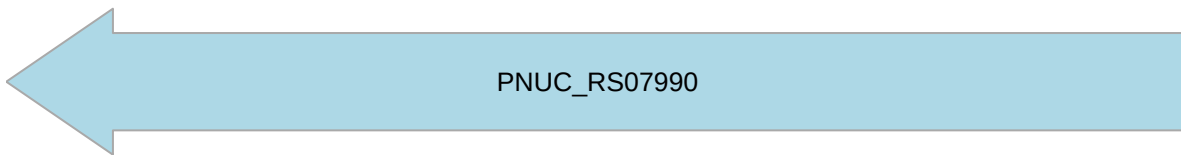
Genes -



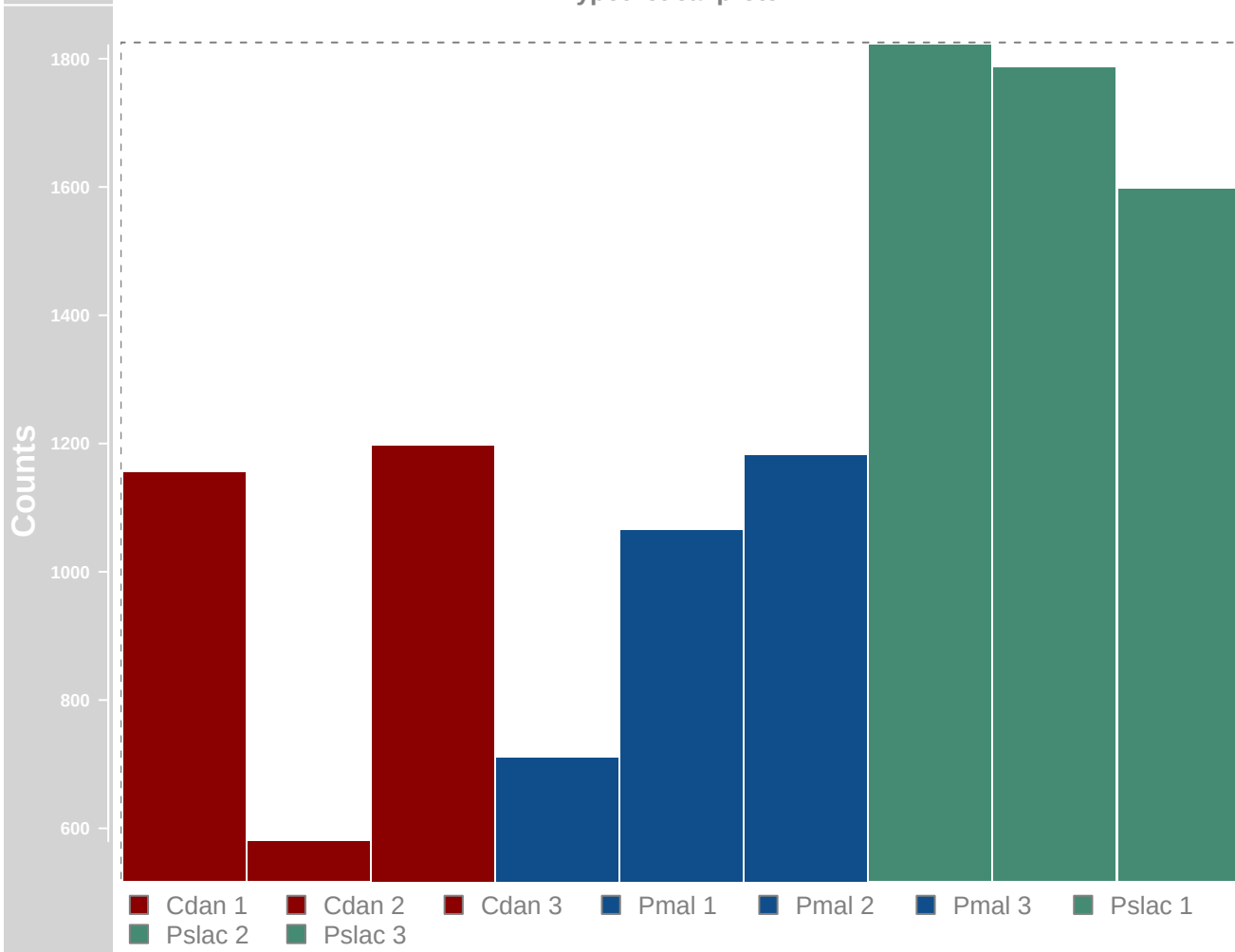
isocitrate lyase

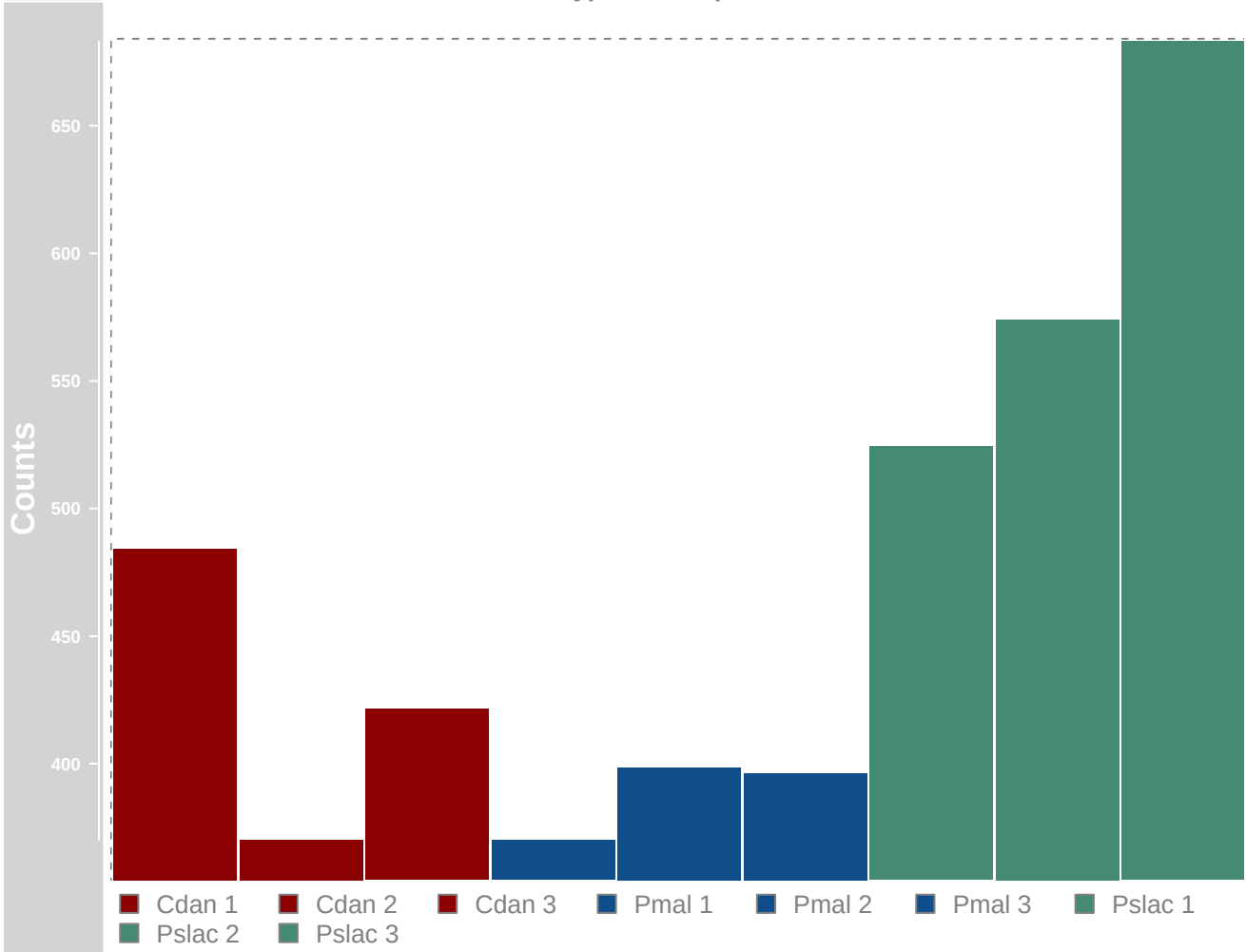
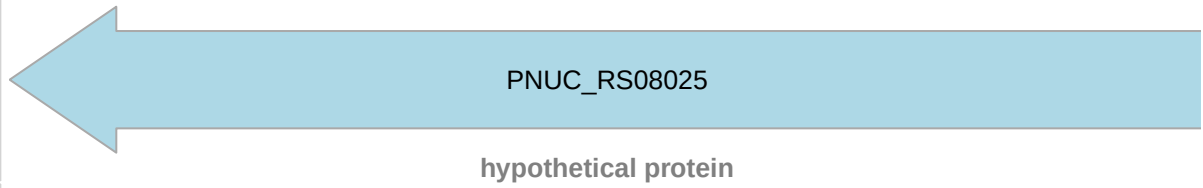


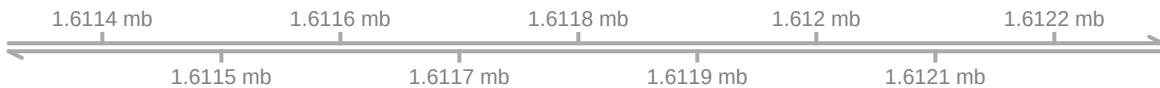




hypothetical protein



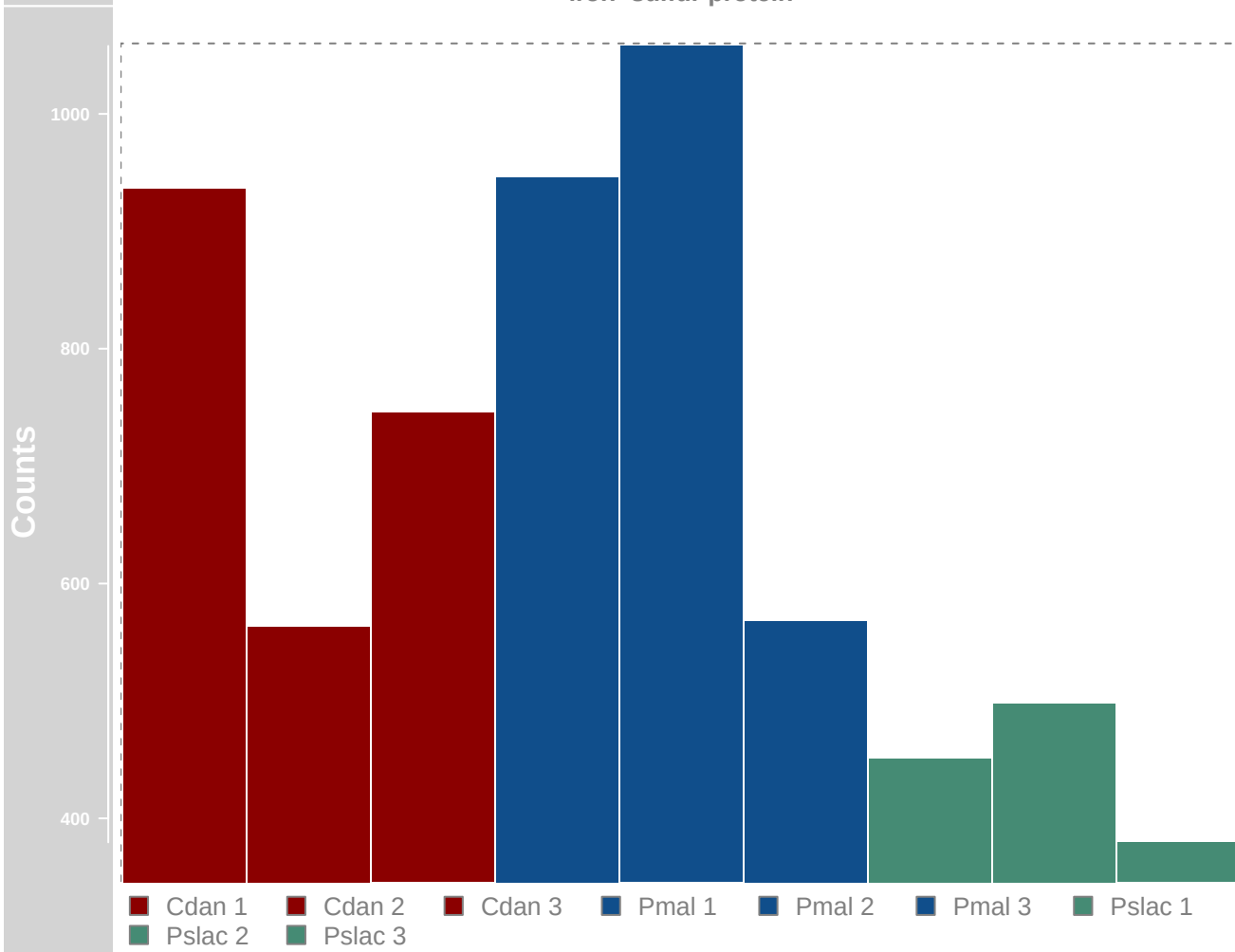


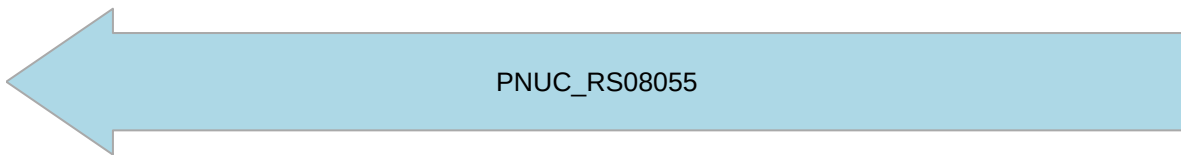


Genes -

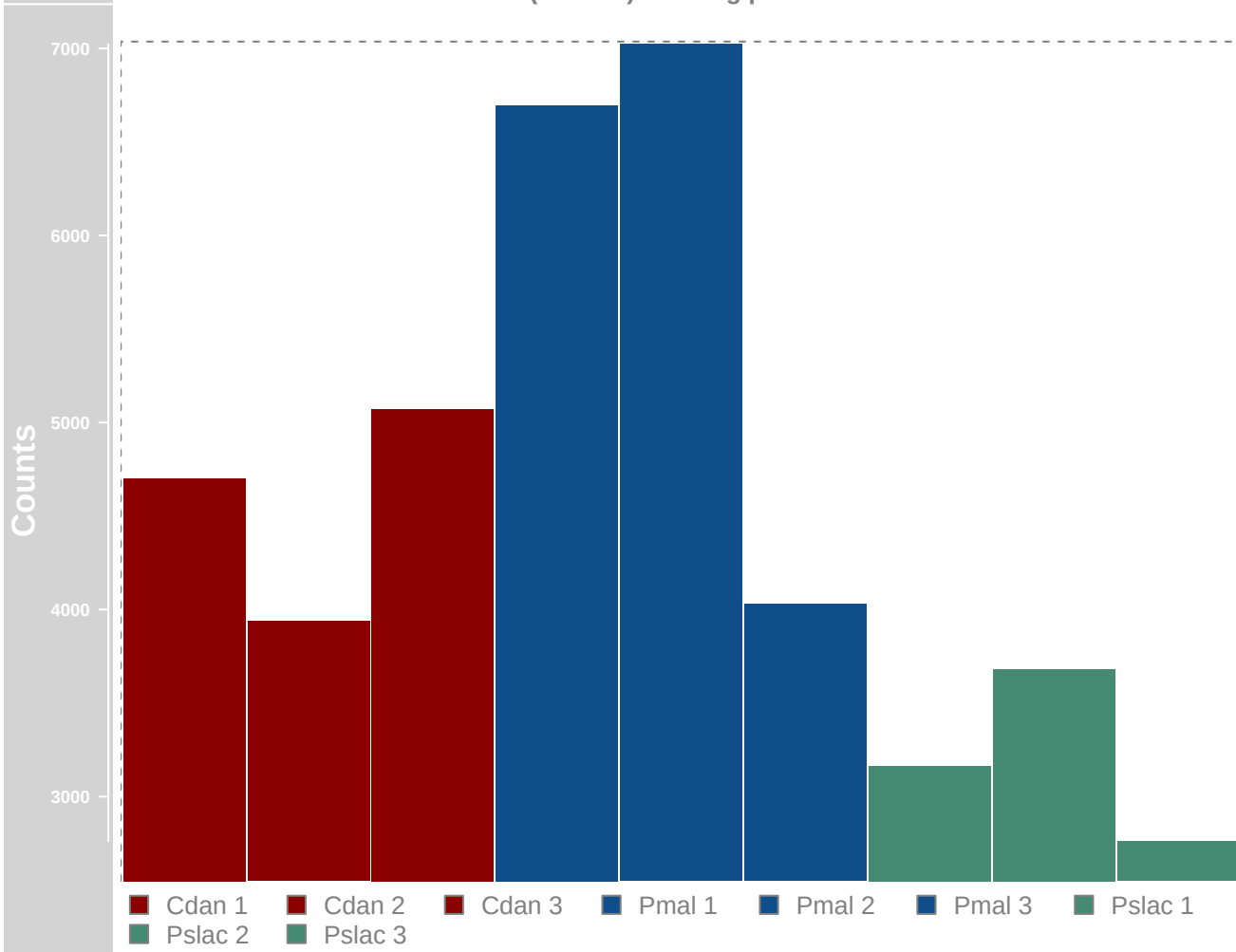
PNUC_RS08050

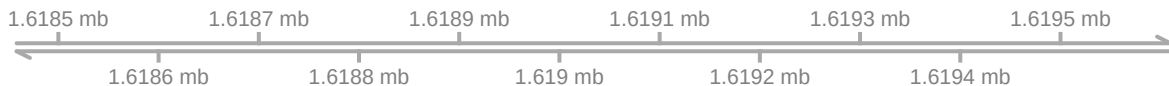
iron-sulfur protein





(2Fe-2S)-binding protein



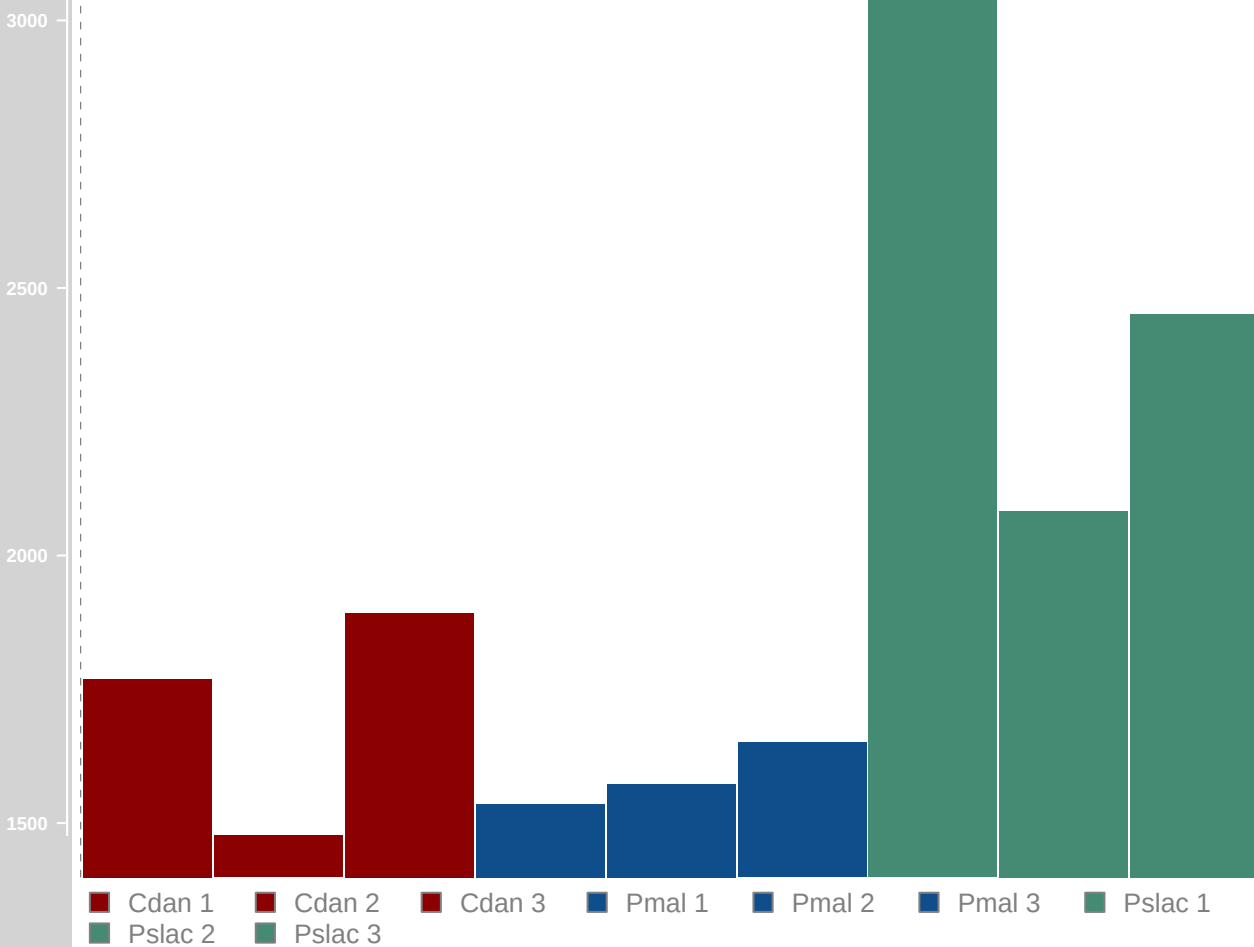


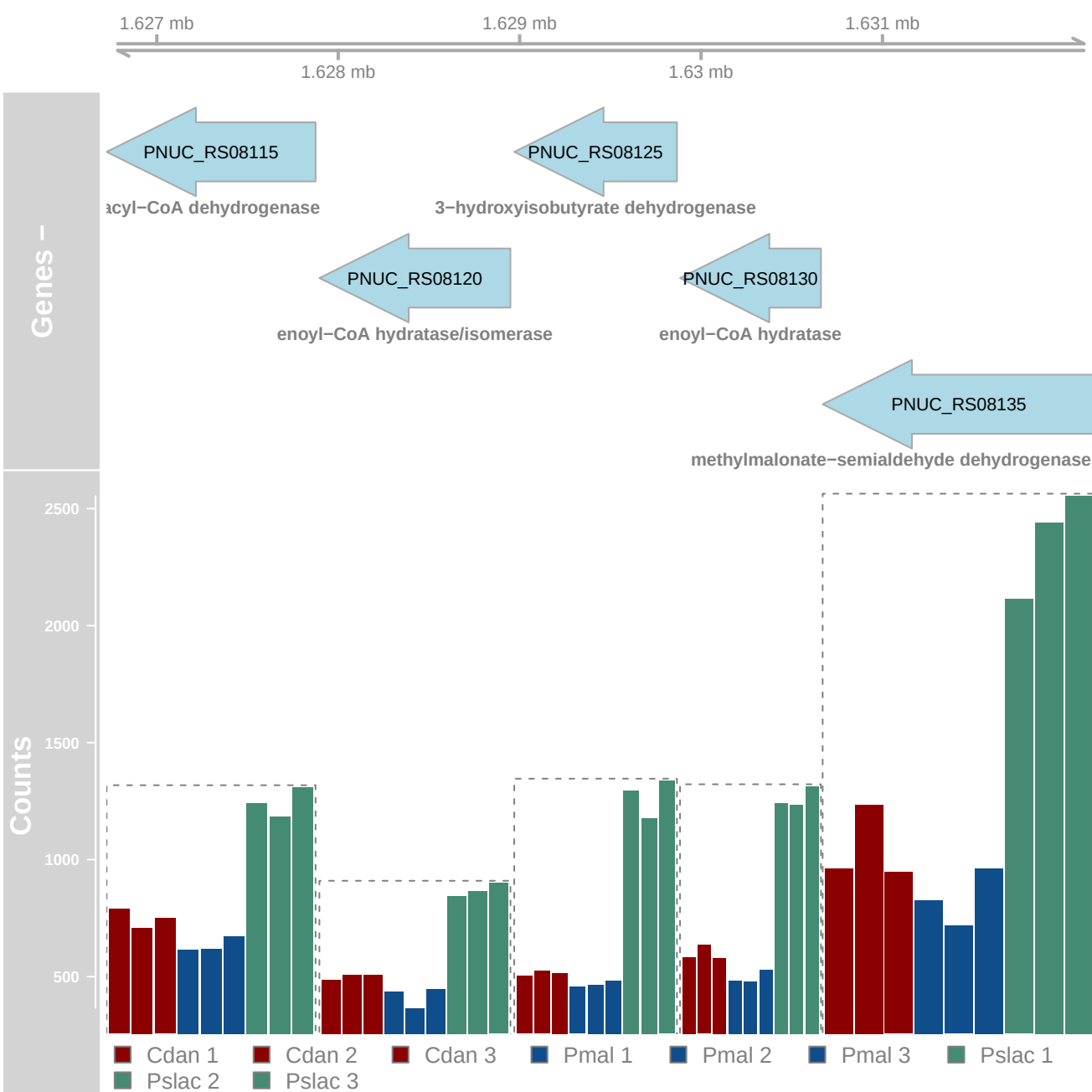
Genes -

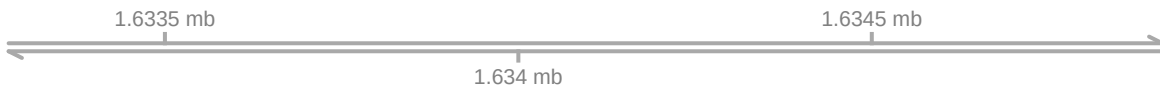
PNUC_RS08085

amino acid ABC transporter substrate-binding protein

Counts







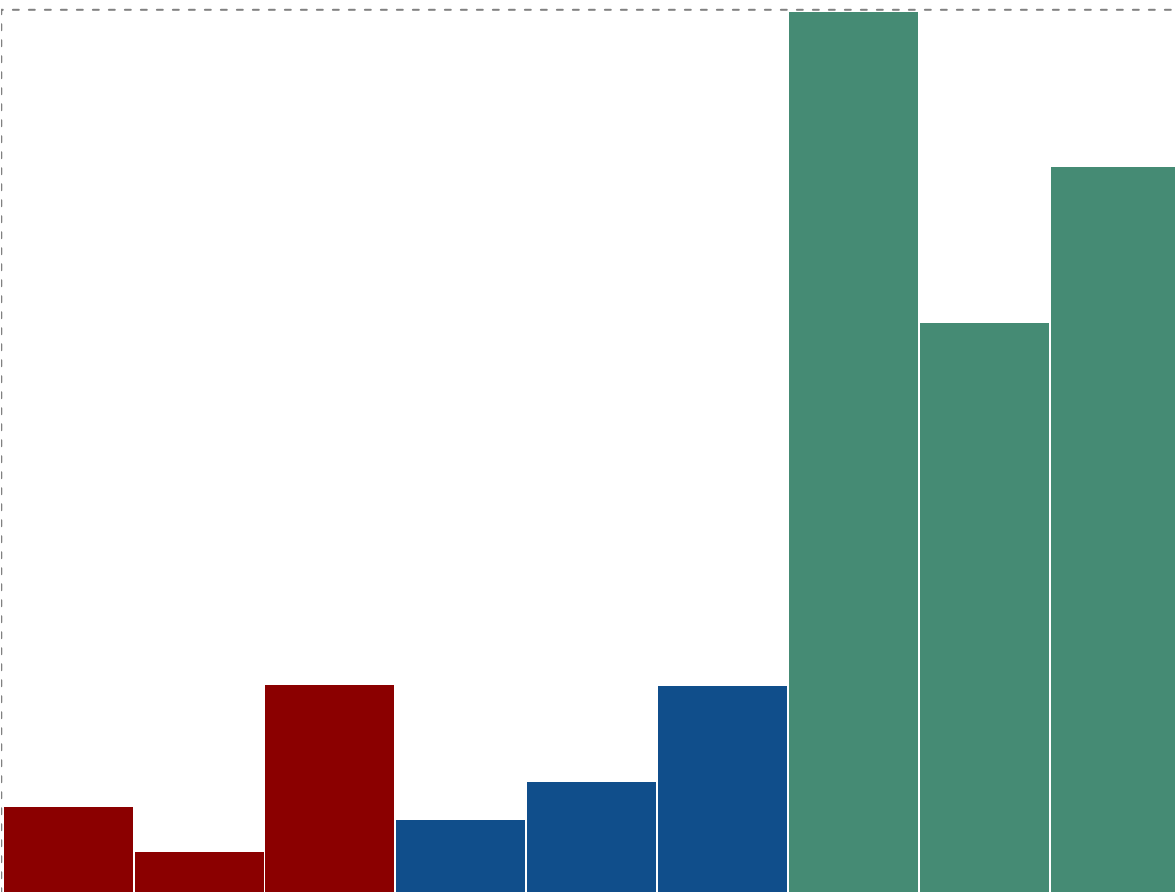
Genes -

PNUC_RS08145

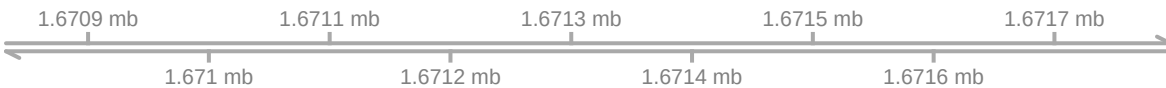
MFS transporter

Counts

7000
6000
5000
4000
3000



Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1
Pslac 2 Pslac 3



Genes -

PNUC_RS08345

phosphate ABC transporter permease subunit PstC

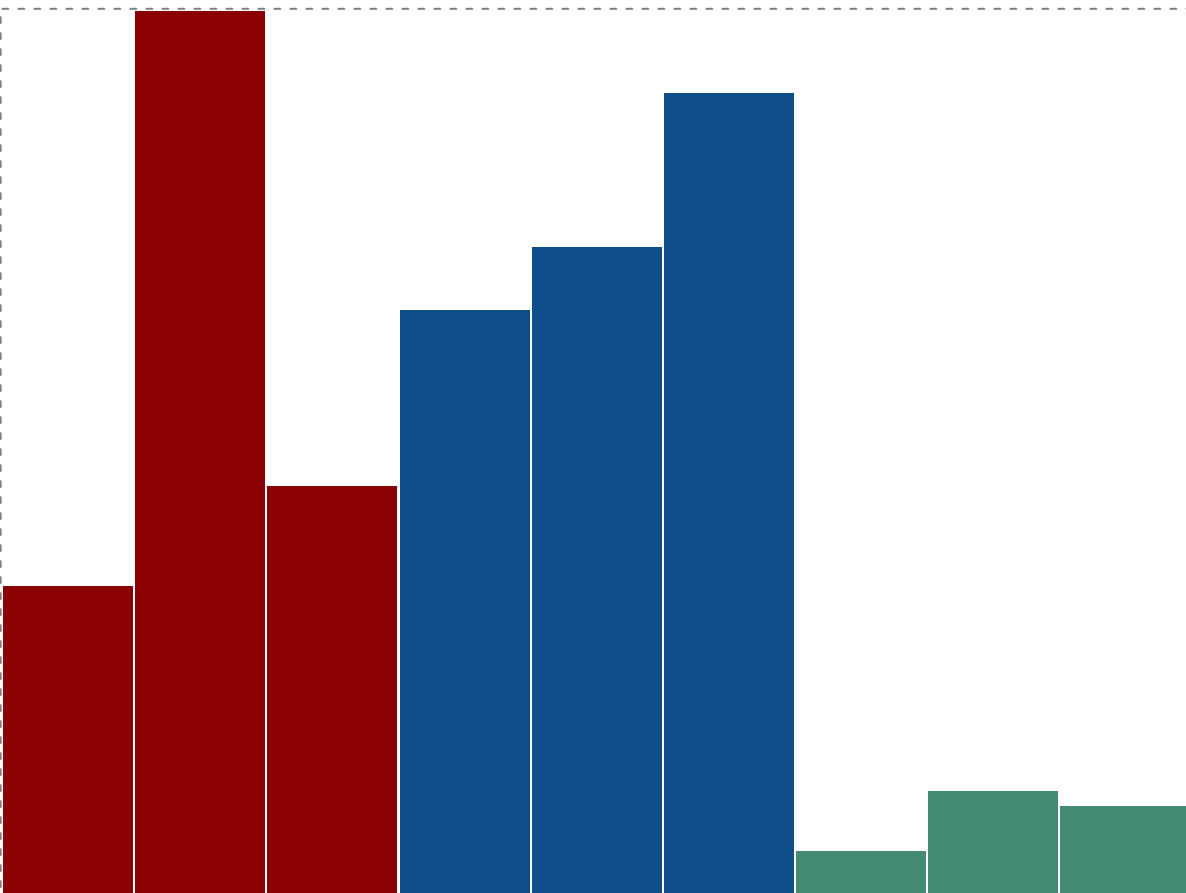
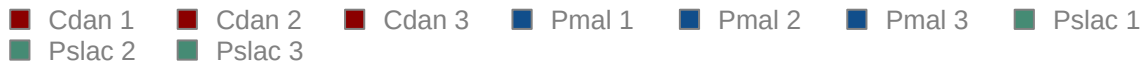
Counts

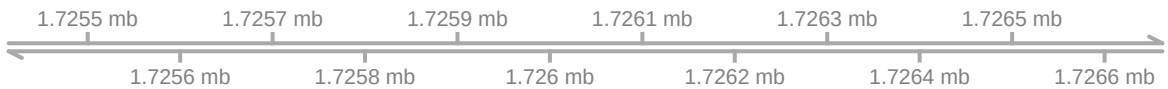
140

120

100

80





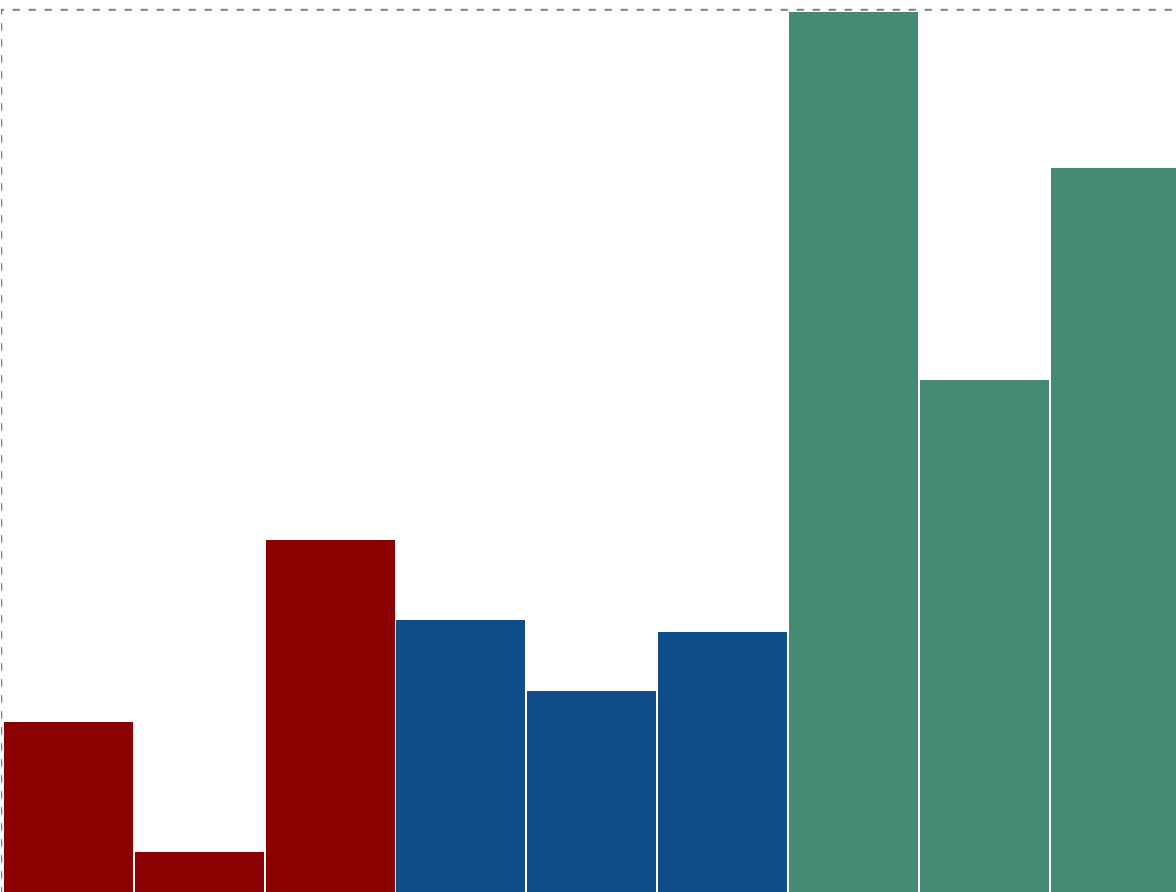
Genes -

PNUC_RS08650

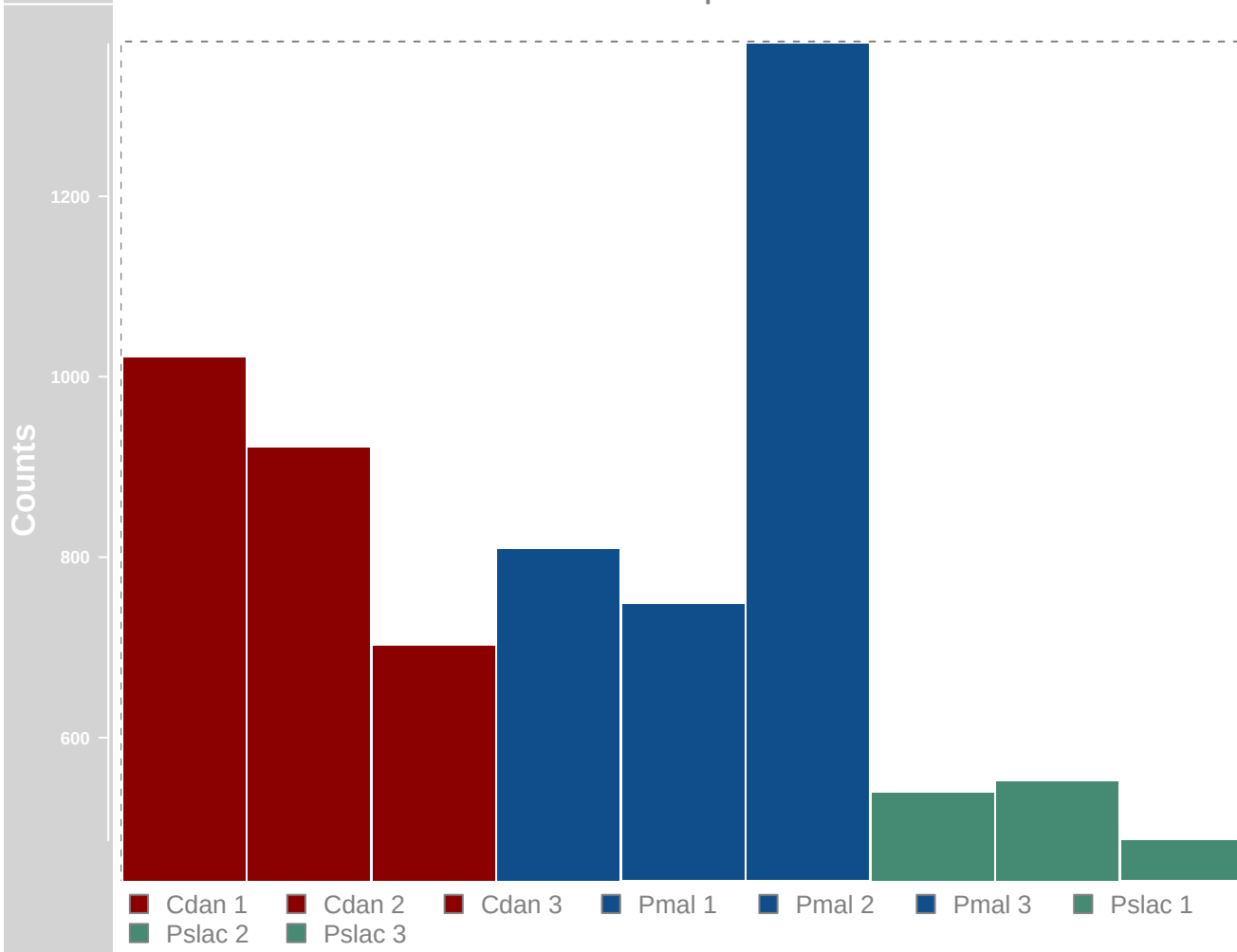
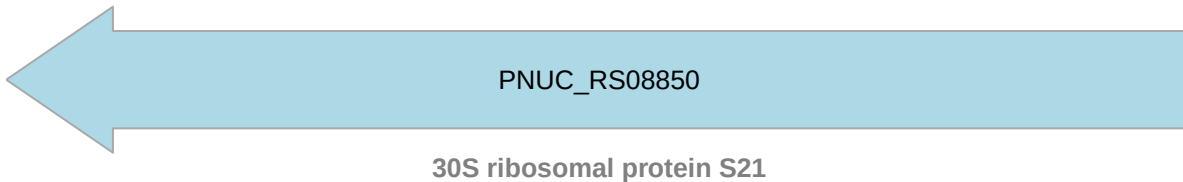
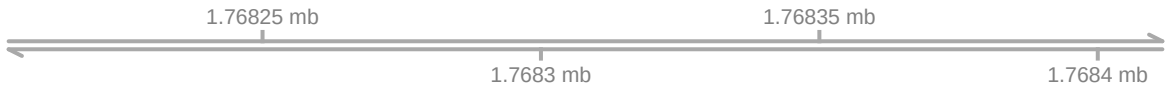
MFS transporter

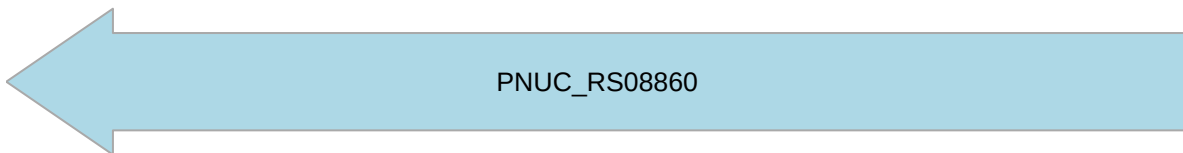
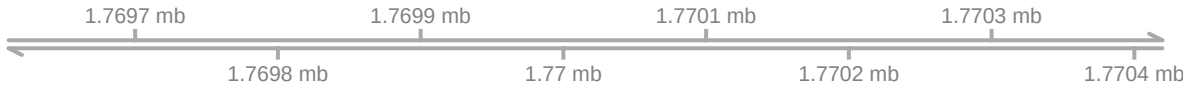
Counts

1100
1000
900
800
700

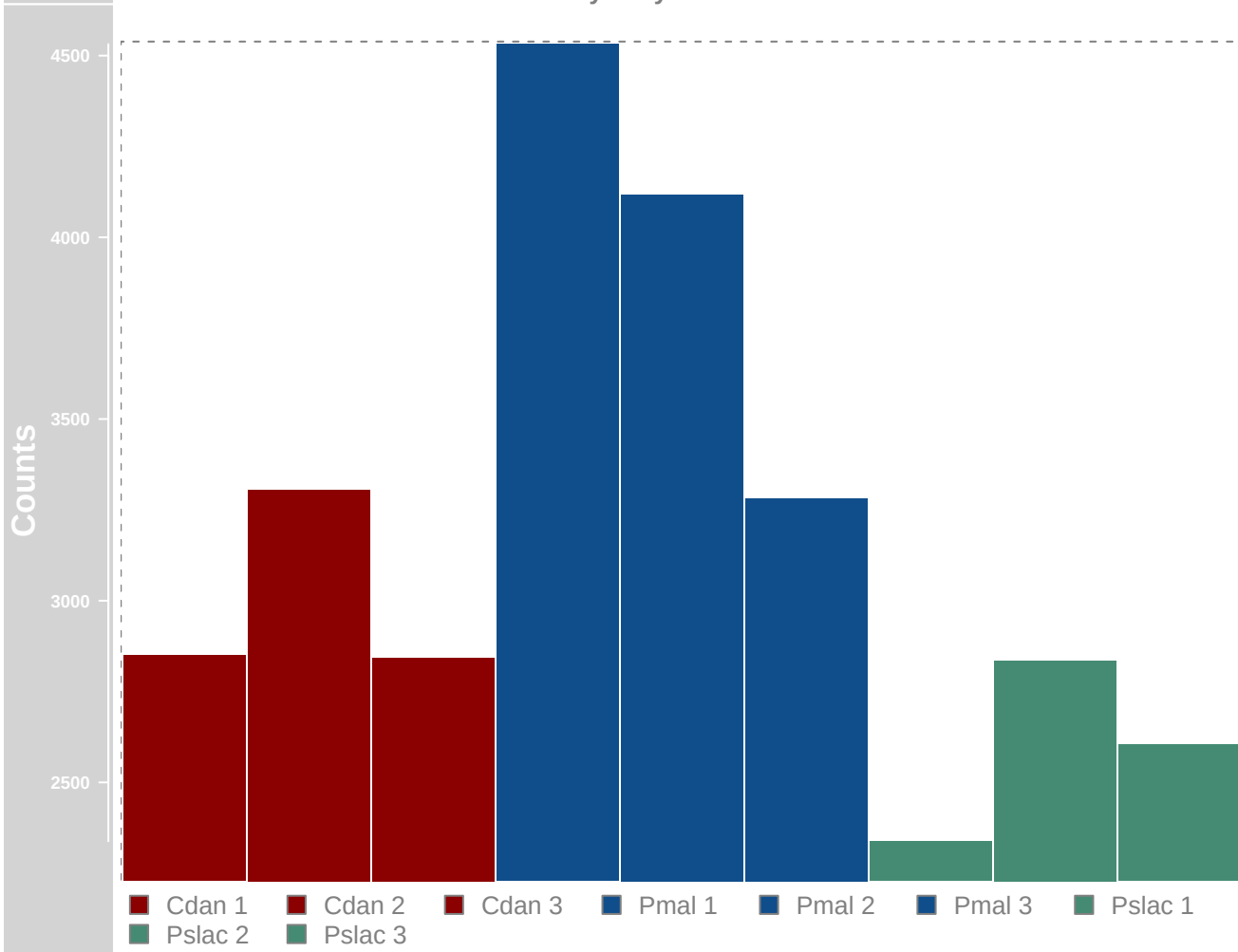


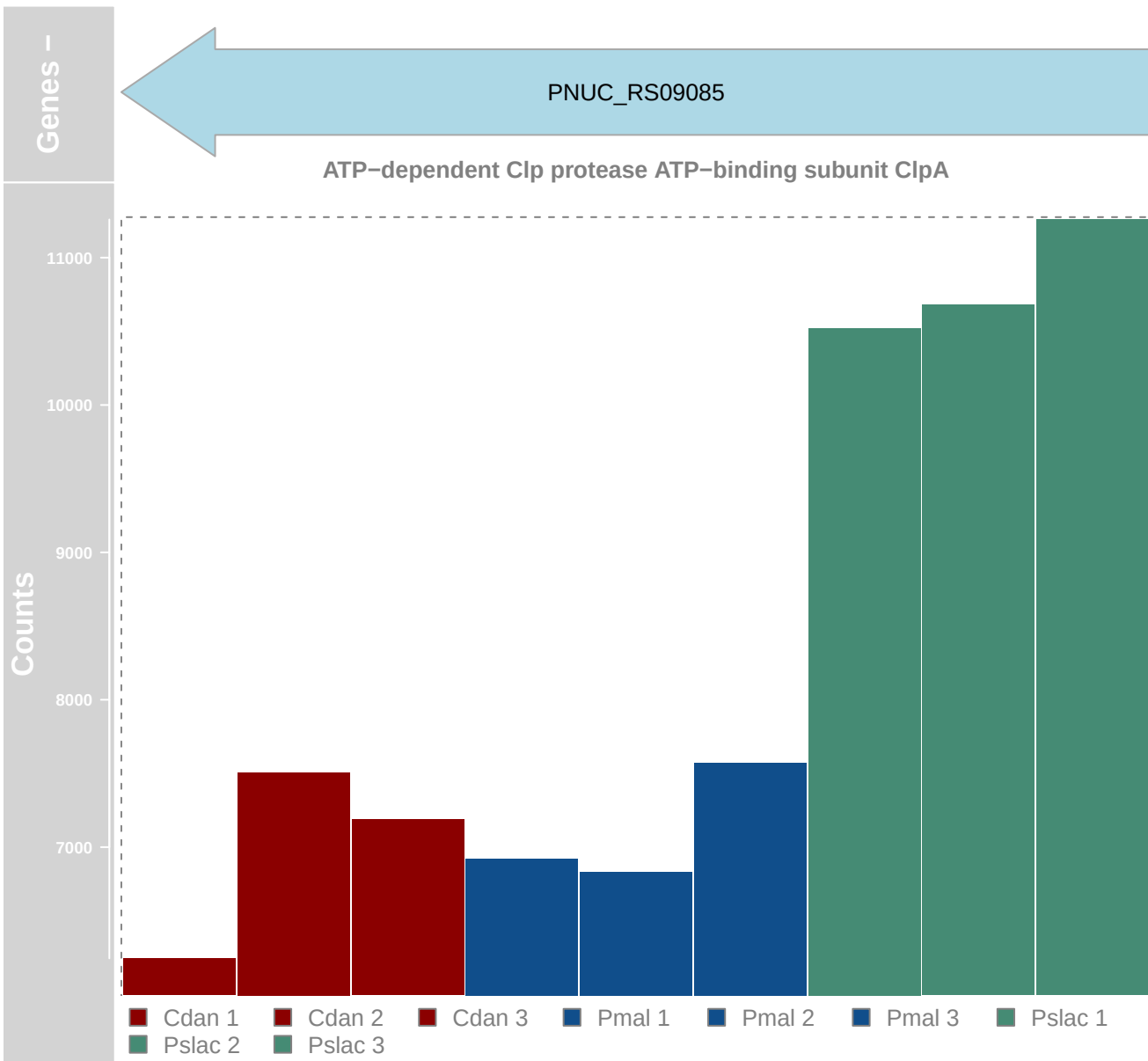
Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1 Pslac 2 Pslac 3

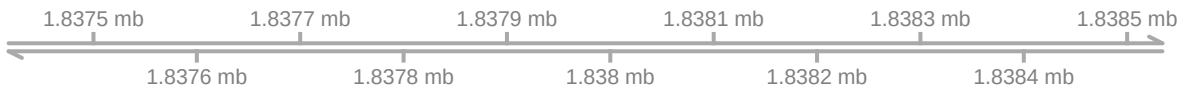




GTP cyclohydrolase I F0LE2



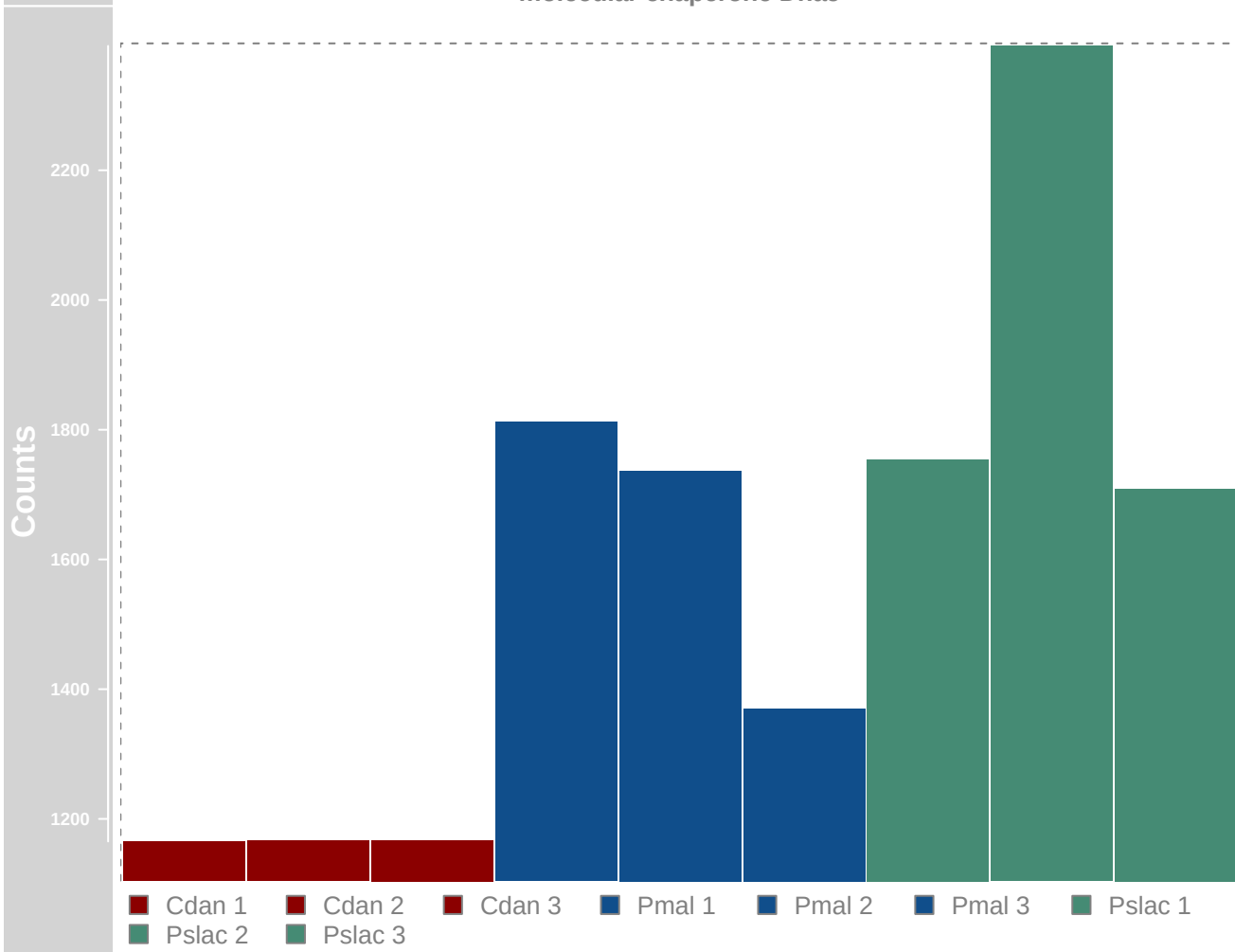




Genes -

PNUC_RS09185

molecular chaperone DnaJ

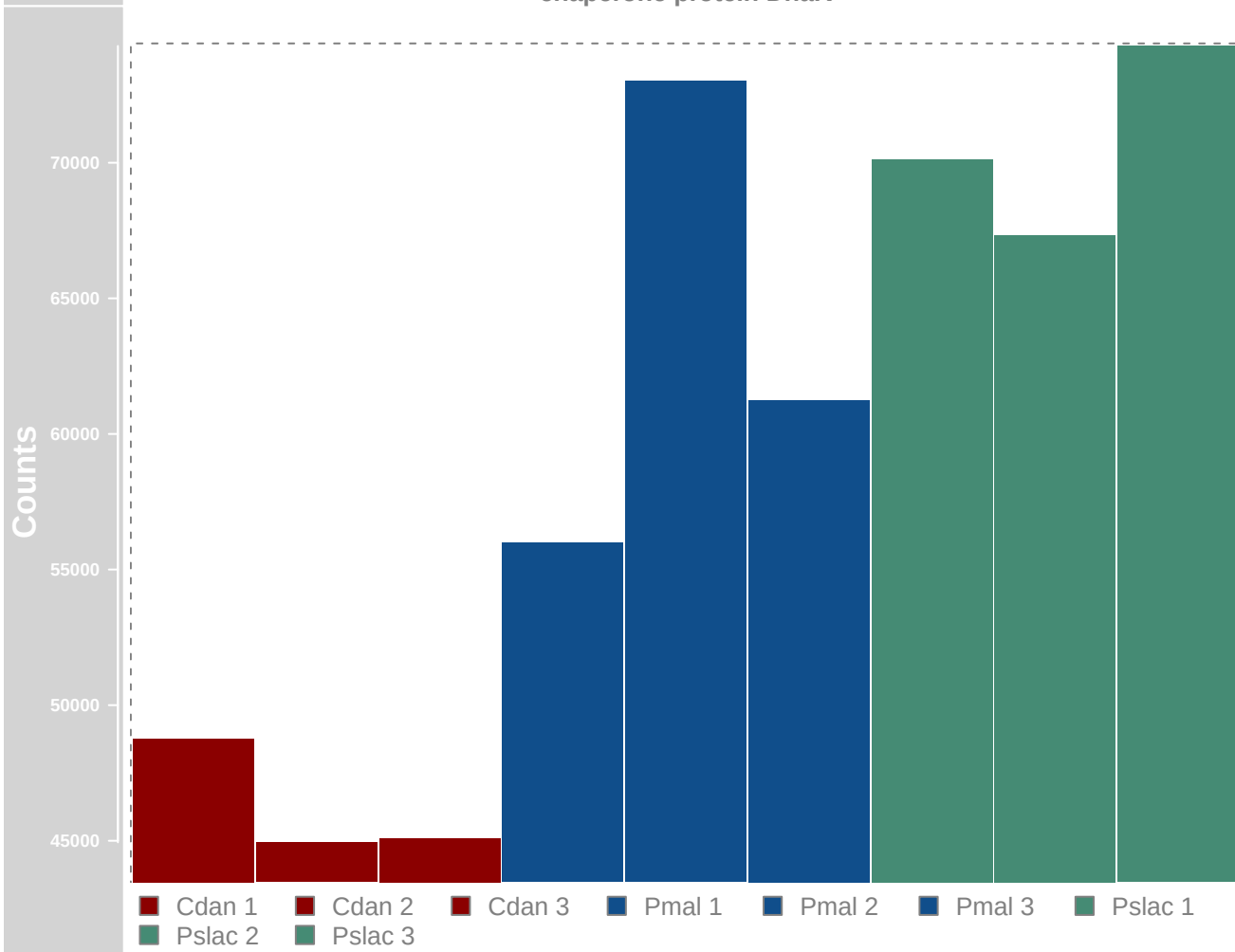


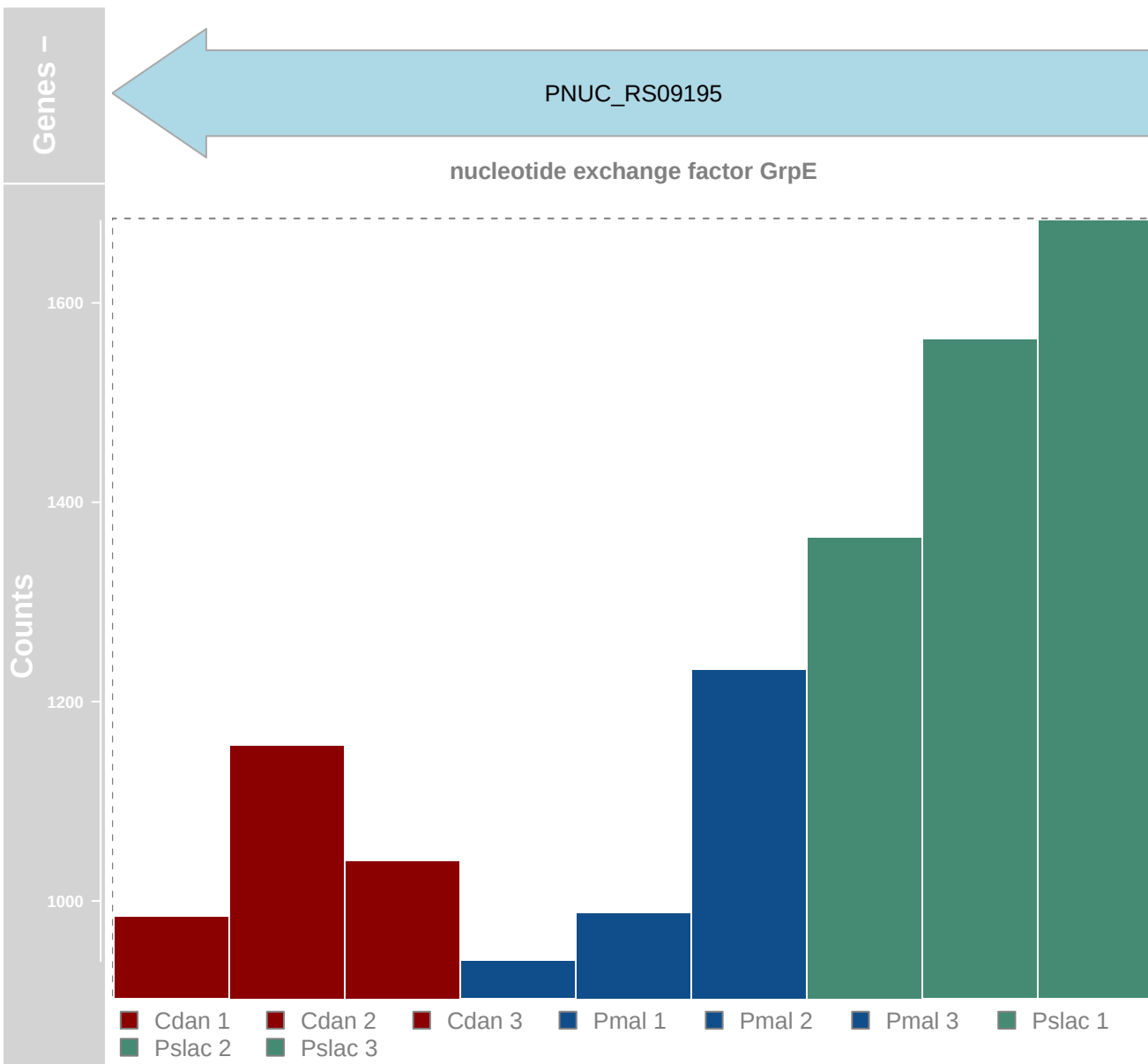
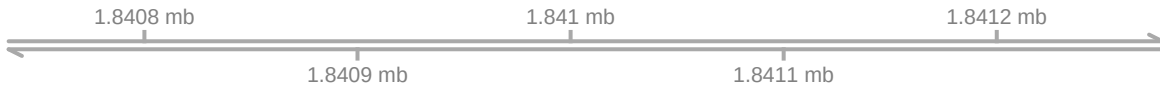


Genes -

PNUC_RS09190

chaperone protein DnaK







Genes -

PNUC_RS09370

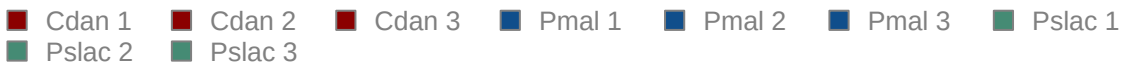
molecular chaperone GroEL

Counts

25000

20000

15000

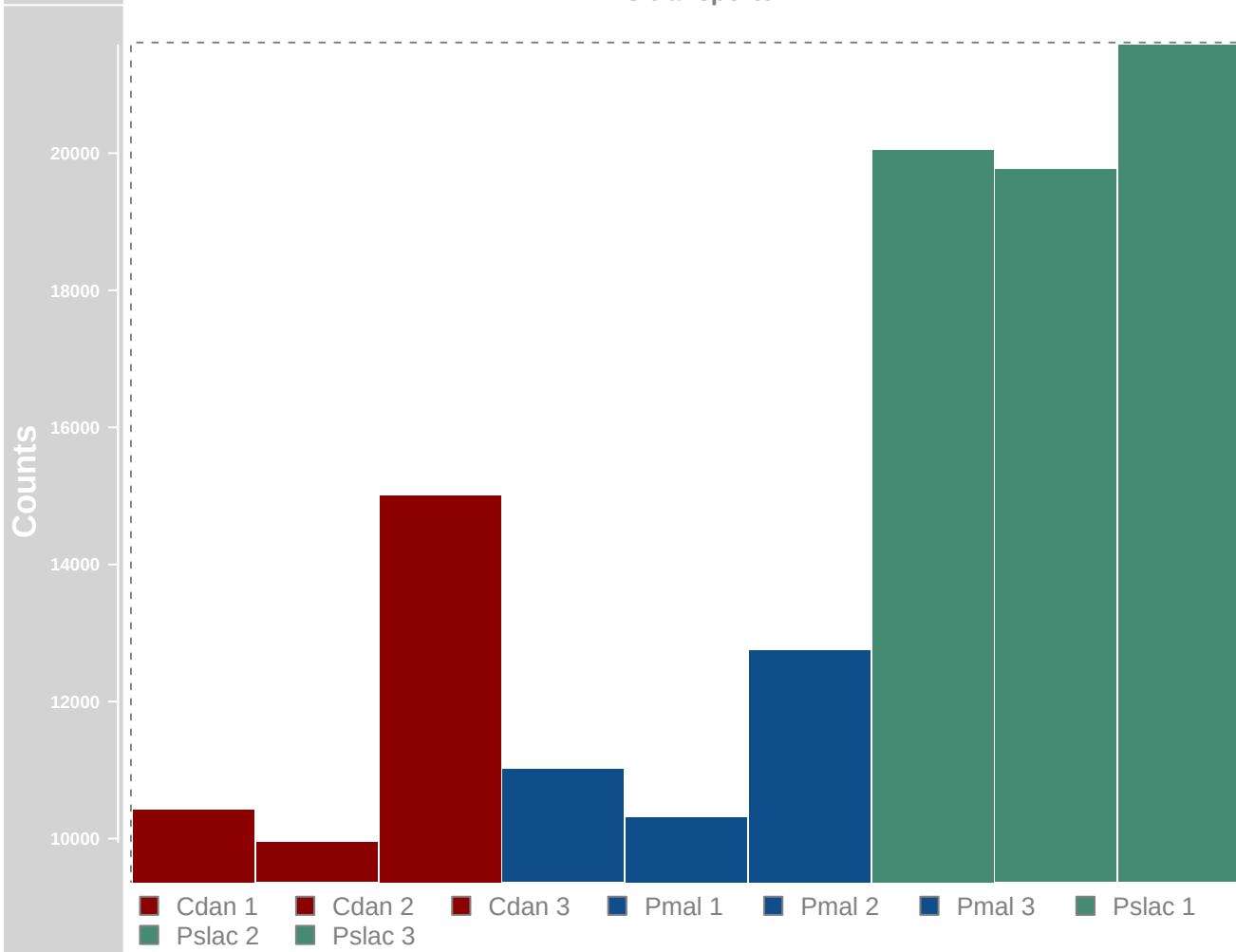




Genes -

PNUC_RS09600

MFS transporter





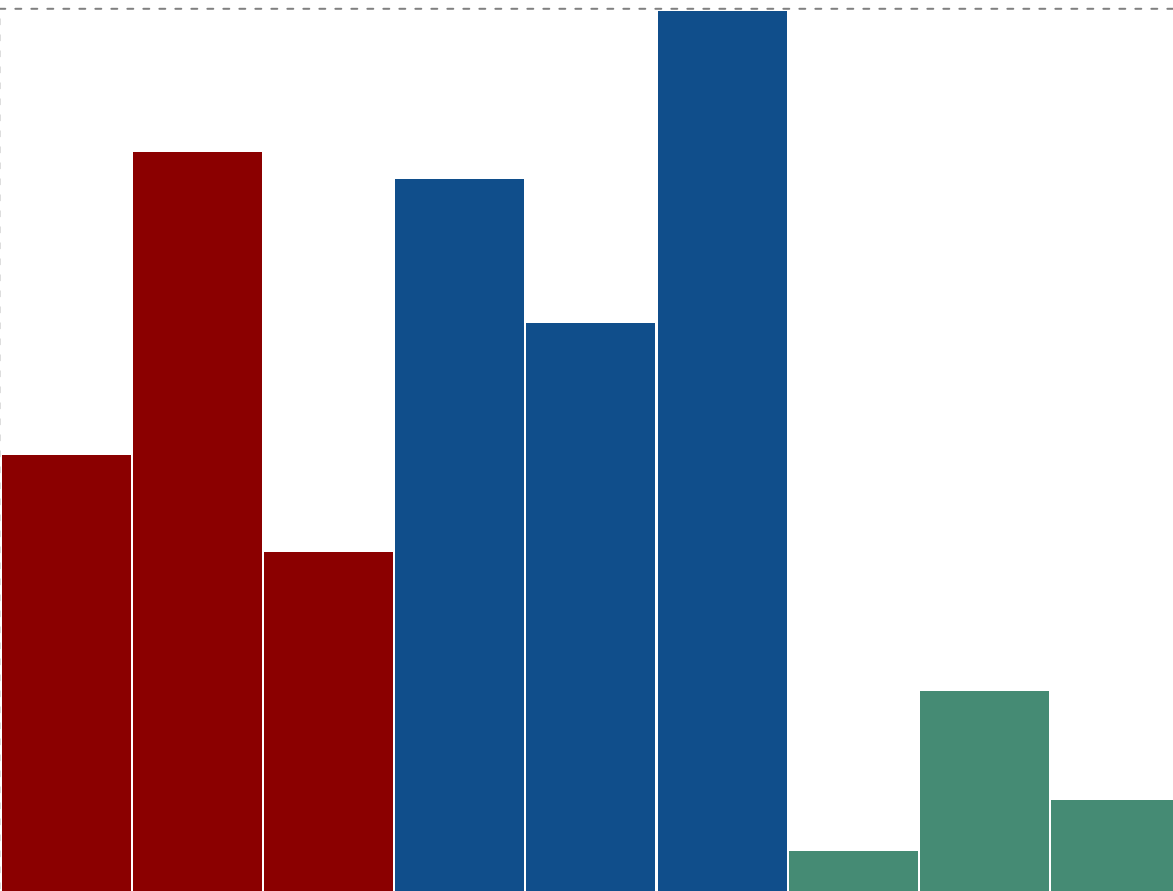
Genes -

PNUC_RS09775

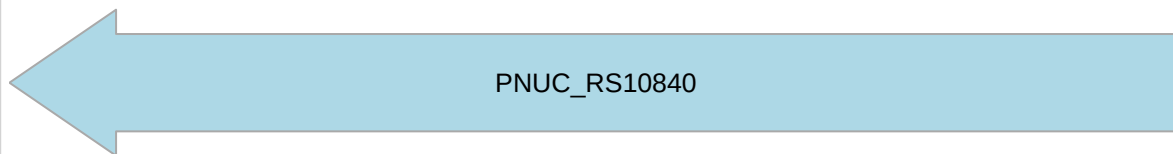
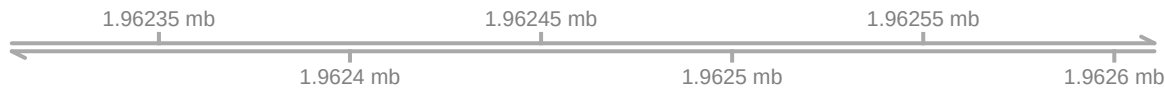
30S ribosomal protein S9

Counts

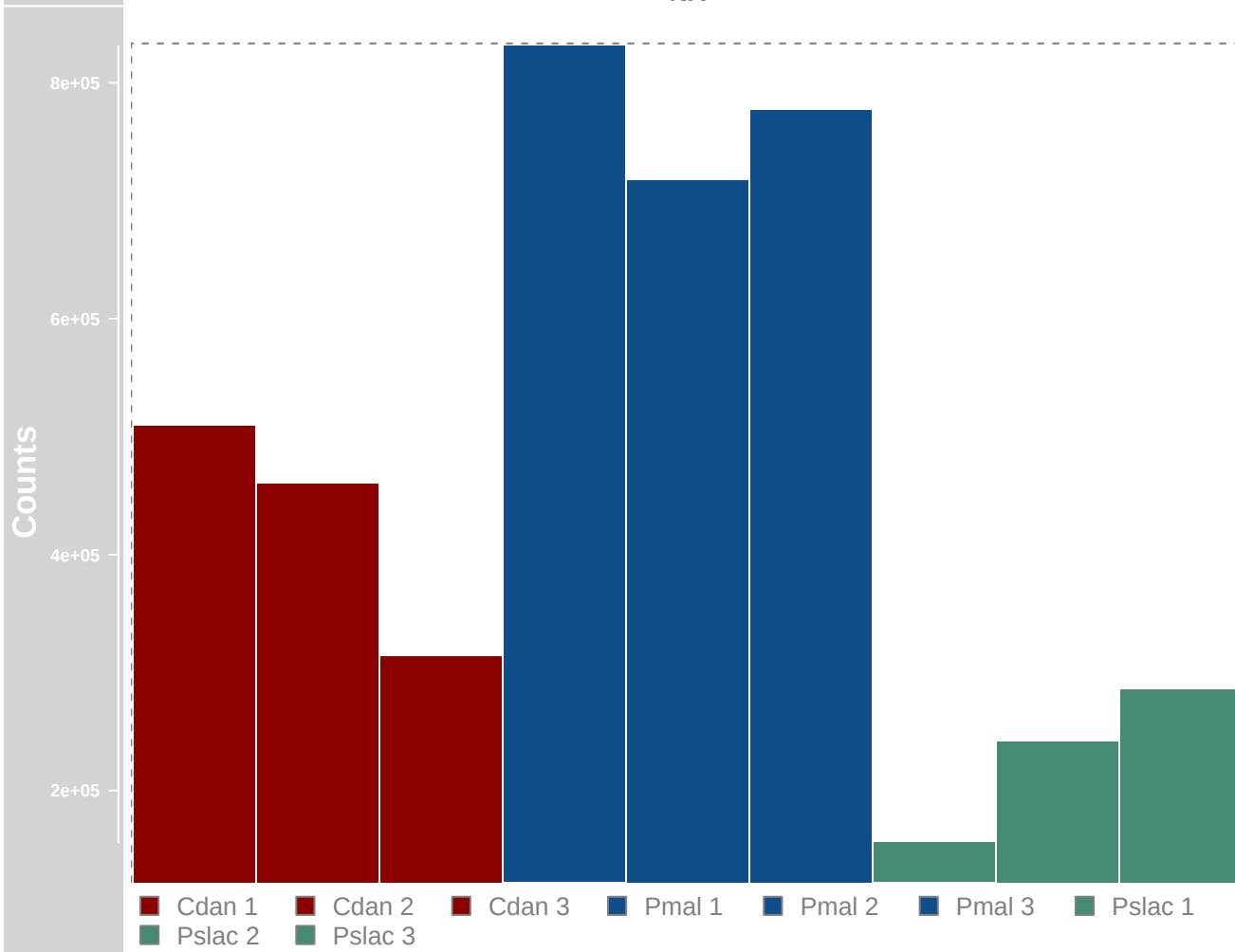
1300
1200
1100
1000
900
800

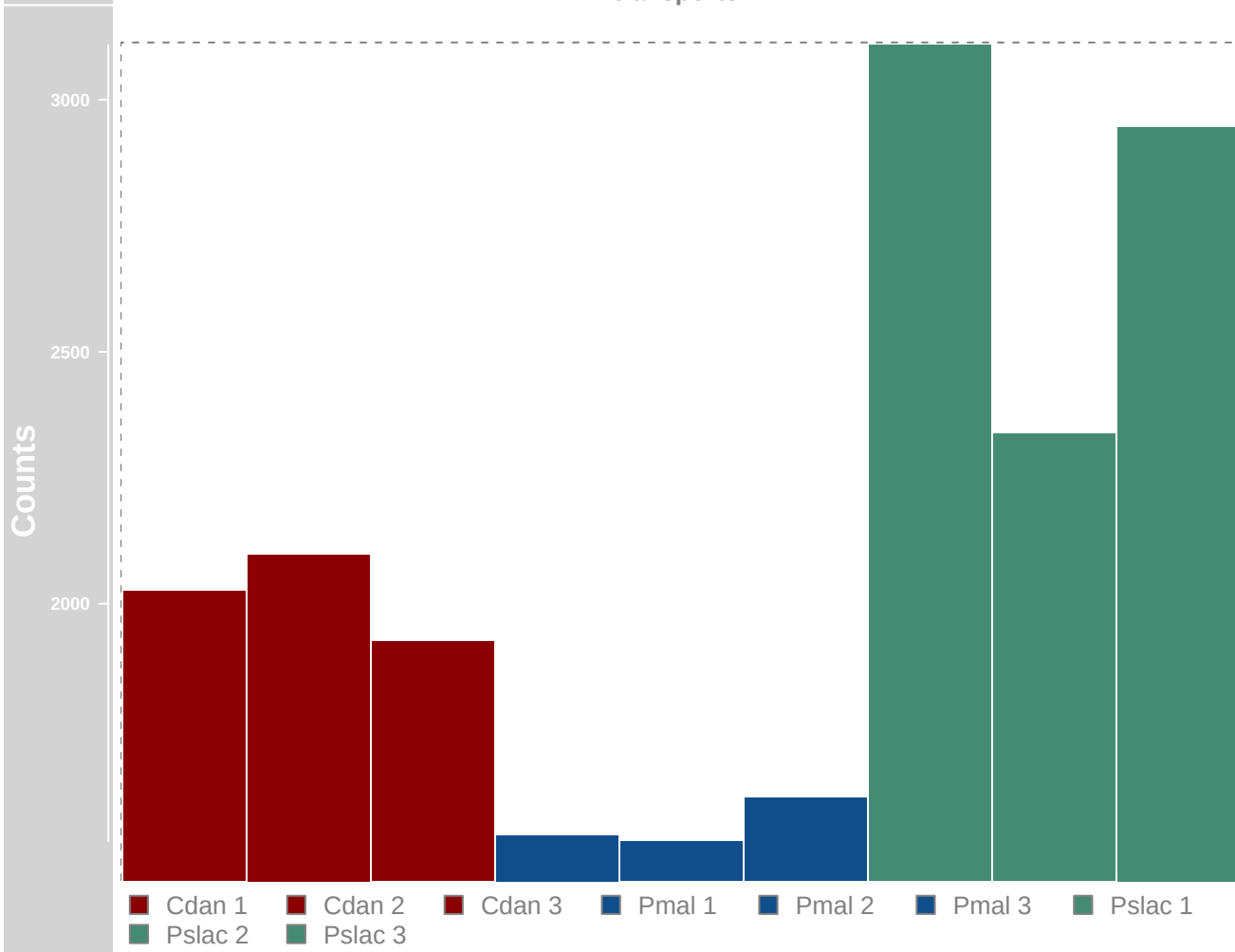
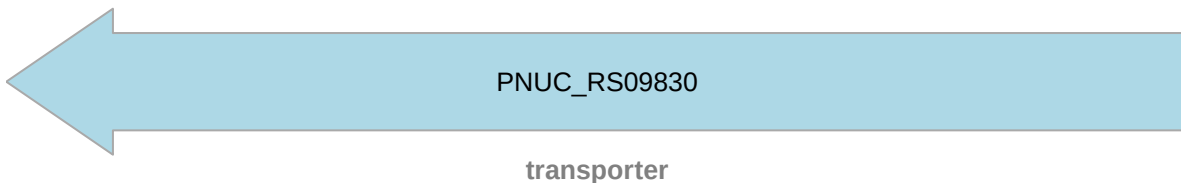
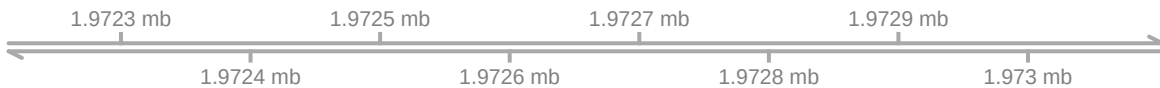


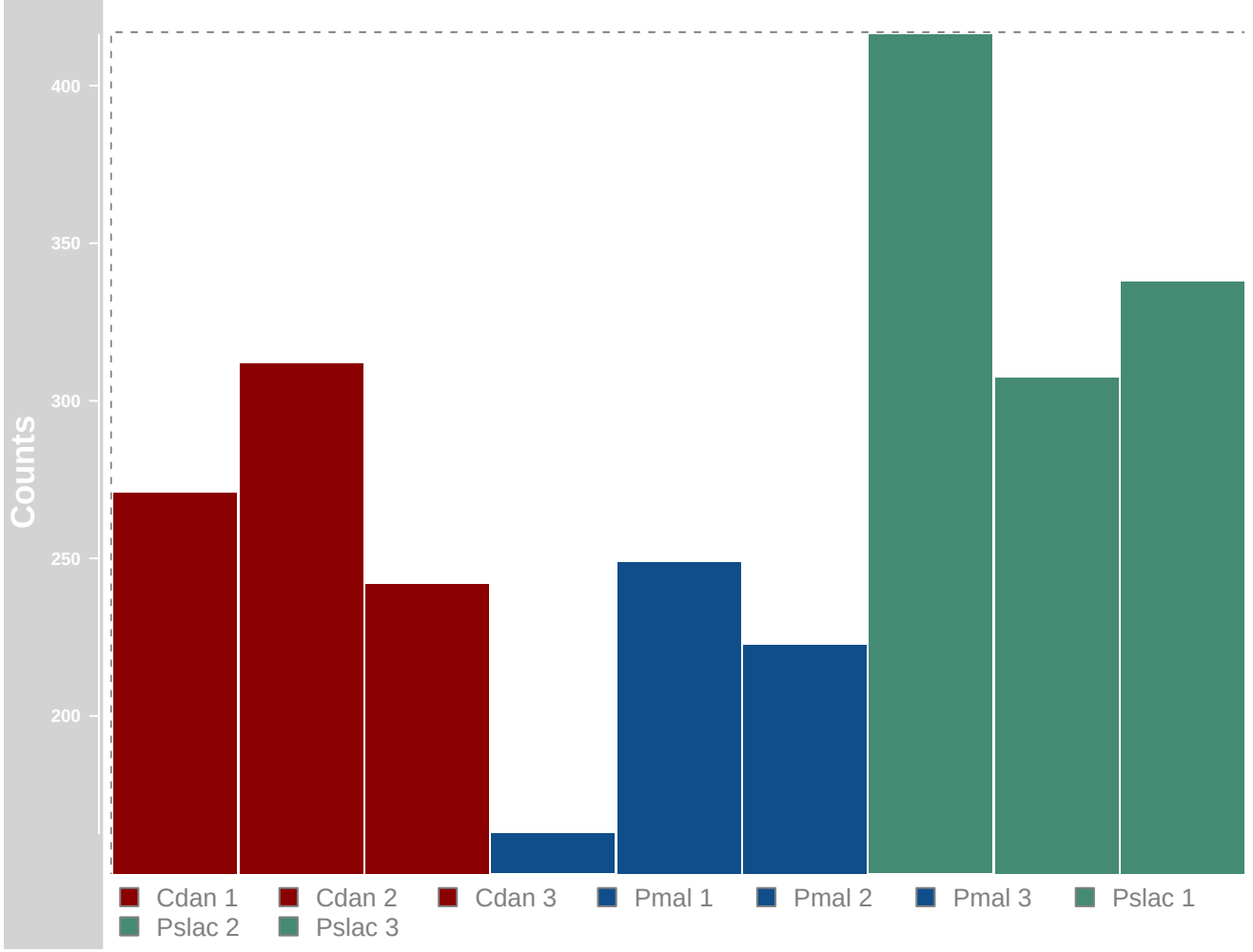
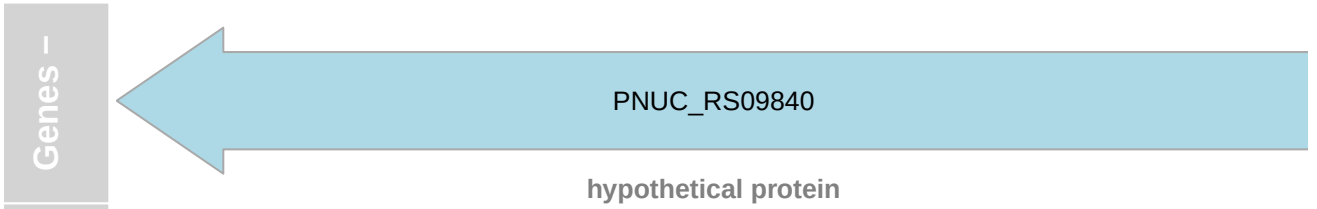
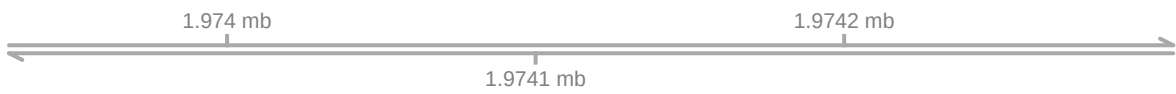
Cdan 1 Cdan 2 Cdan 3 Pmal 1 Pmal 2 Pmal 3 Pslac 1 Pslac 2 Pslac 3

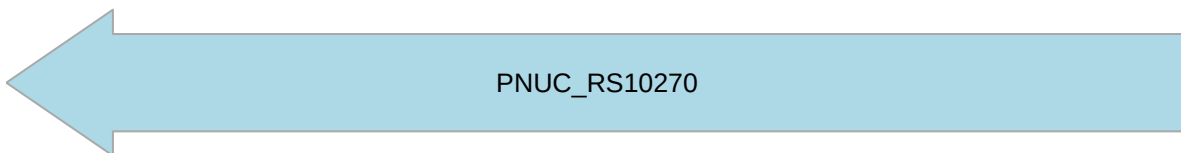


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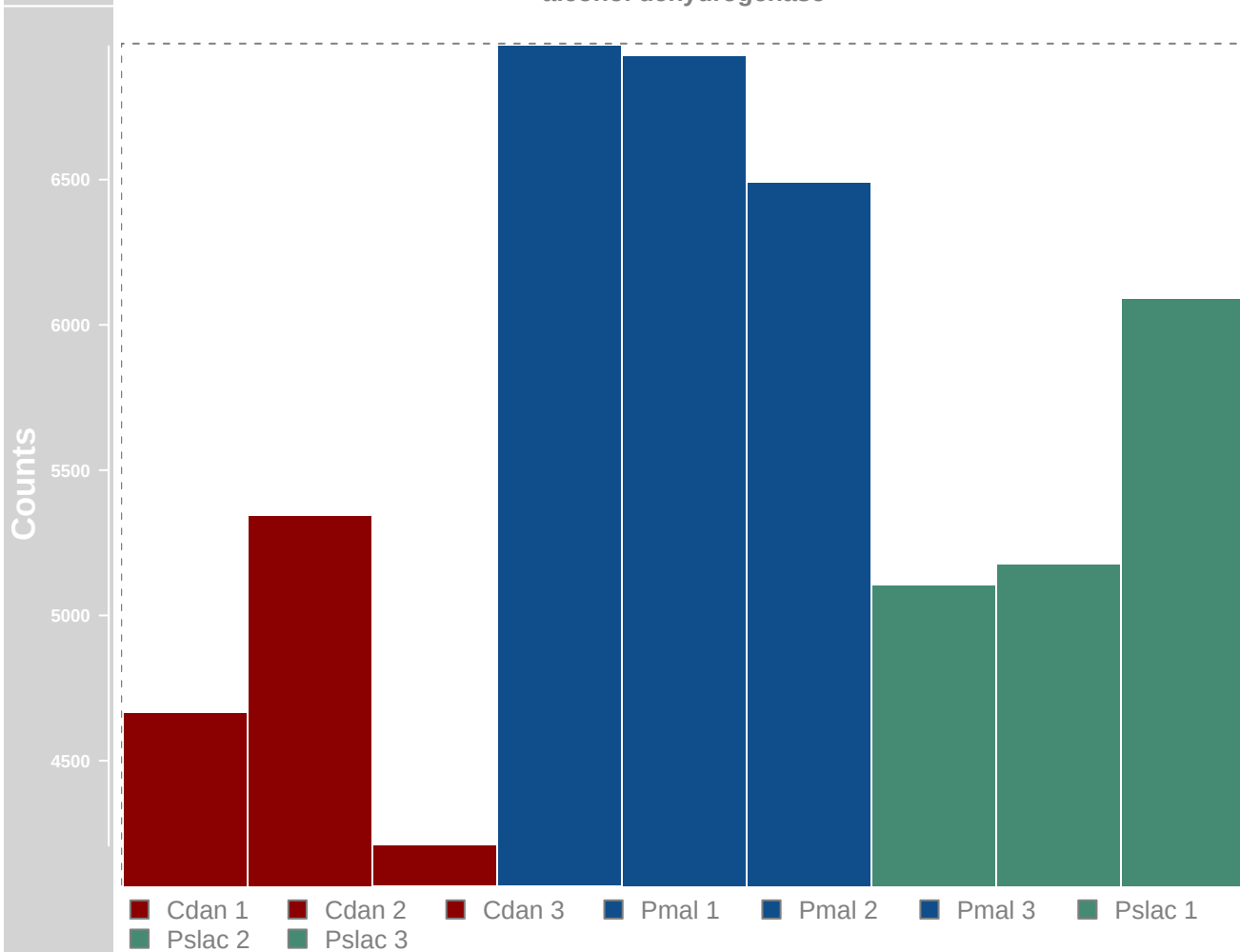


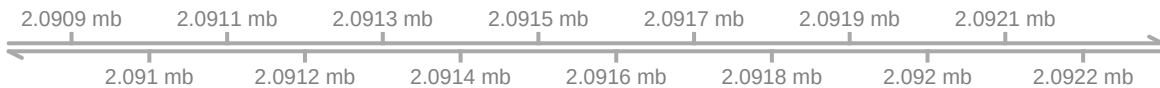






alcohol dehydrogenase





Genes -

PNUC_RS10445

aspartyl/glutamyl-tRNA amidotransferase subunit A

Counts

