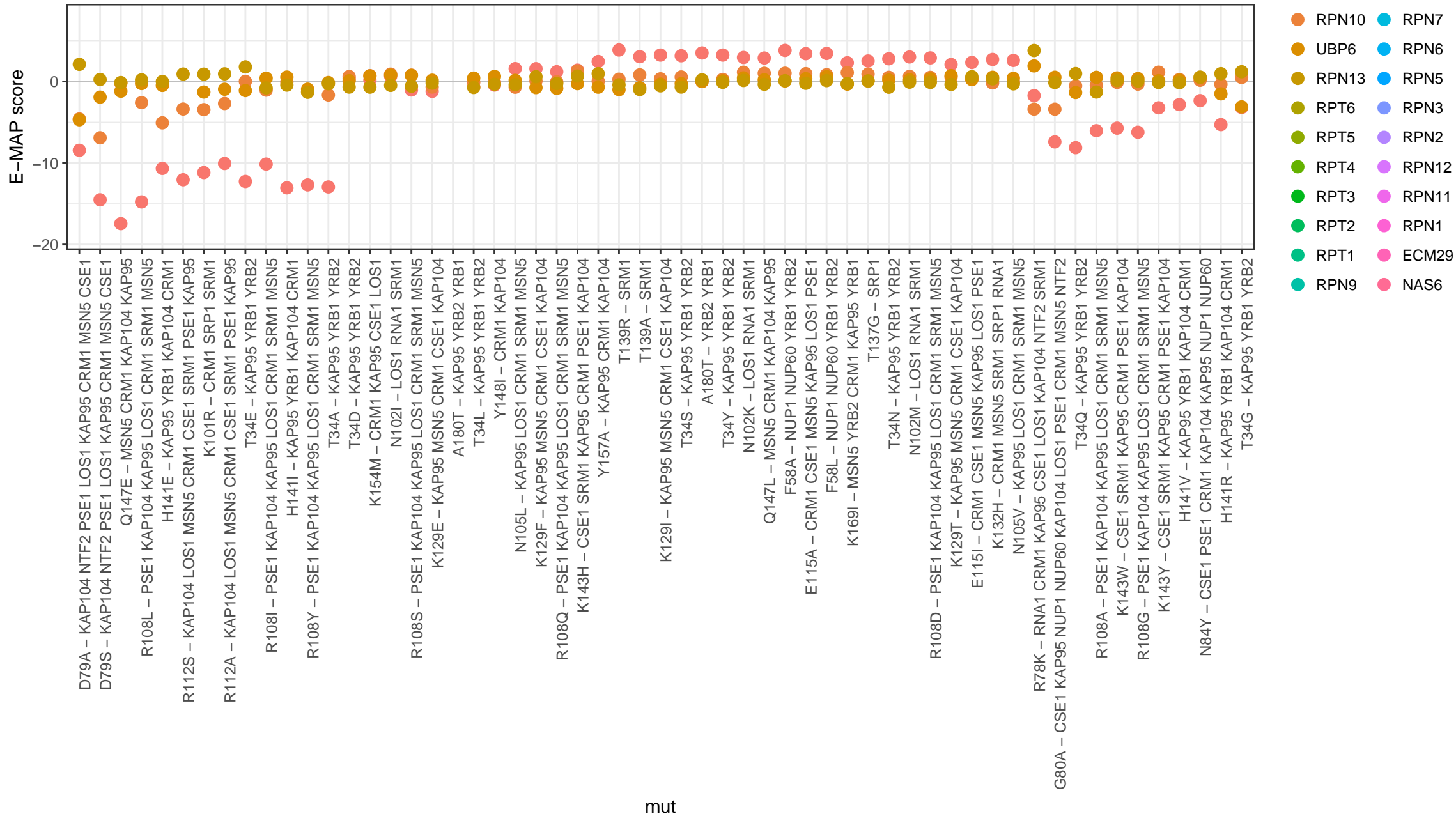
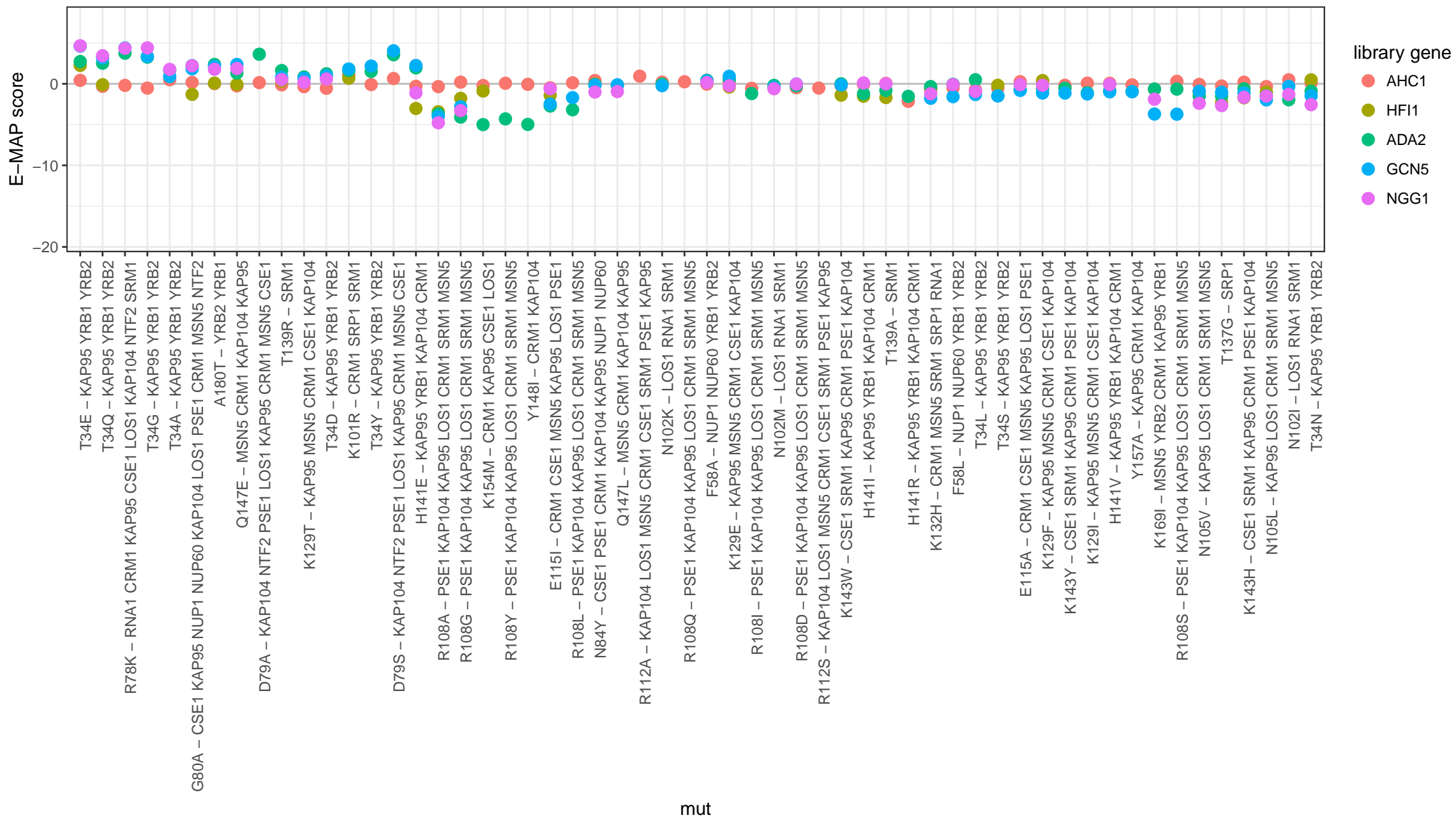


19/22S regulator



Ada2p/Gcn5p/Ada3 transcription activator complex



alpha-1,6-mannosyltransferase complex(Anp1p/Mnn9p)

E-MAP score

0
-10
-20

R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34A – KAP95 YRB1 YRB2
H141R – KAP95 YRB1 KAP104 CRM1
K101R – CRM1 SRP1 SRM1
N102I – LOS1 RNA1 SRM1
Q147E – MSN5 CRM1 KAP104 KAP95
T34D – KAP95 YRB1 YRB2
T139R – SRM1
N102K – LOS1 RNA1 SRM1
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
Y157A – KAP95 CRM1 KAP104
F58L – NUP1 NUP60 YRB1 YRB2
A180T – KAP95 YRB2 YRB1
T34S – KAP95 YRB1 YRB2
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
H141V – KAP95 YRB1 KAP104 CRM1
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
K154M – CRM1 KAP95 CSE1 LOS1
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
Y148I – CRM1 KAP104
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
T34N – KAP95 YRB1 YRB2
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
T34Y – KAP95 YRB1 YRB2
T34G – KAP95 YRB1 YRB2
F58A – NUP1 NUP60 YRB1 YRB2
T137G – SRP1
H141I – KAP95 YRB1 KAP104 CRM1
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
H141E – KAP95 YRB1 KAP104 CRM1
A180T – YRB2 YRB1
N102M – LOS1 RNA1 SRM1
T34L – KAP95 YRB1 YRB2
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
Q147L – MSN5 CRM1 KAP104 KAP95
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
T139A – SRM1
R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
T34E – KAP95 YRB1 YRB2
T34Q – KAP95 YRB1 YRB2

- library gene
- HOC1
 - MNN11
 - MNN10
 - ANP1
 - MNN9

mut

alpha,alpha-trehalose-phosphate synthase complex (UDP-forming)

E-MAP score

-20

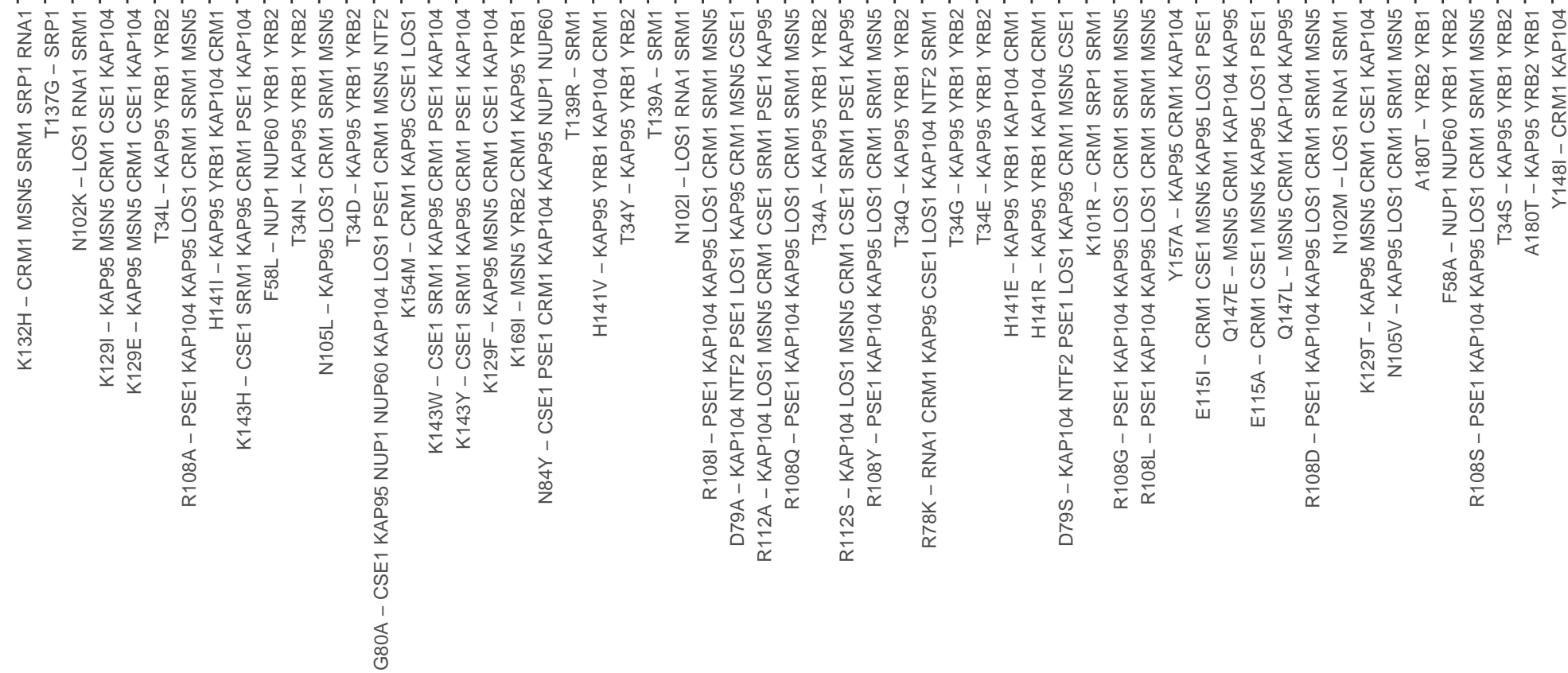
-10

0

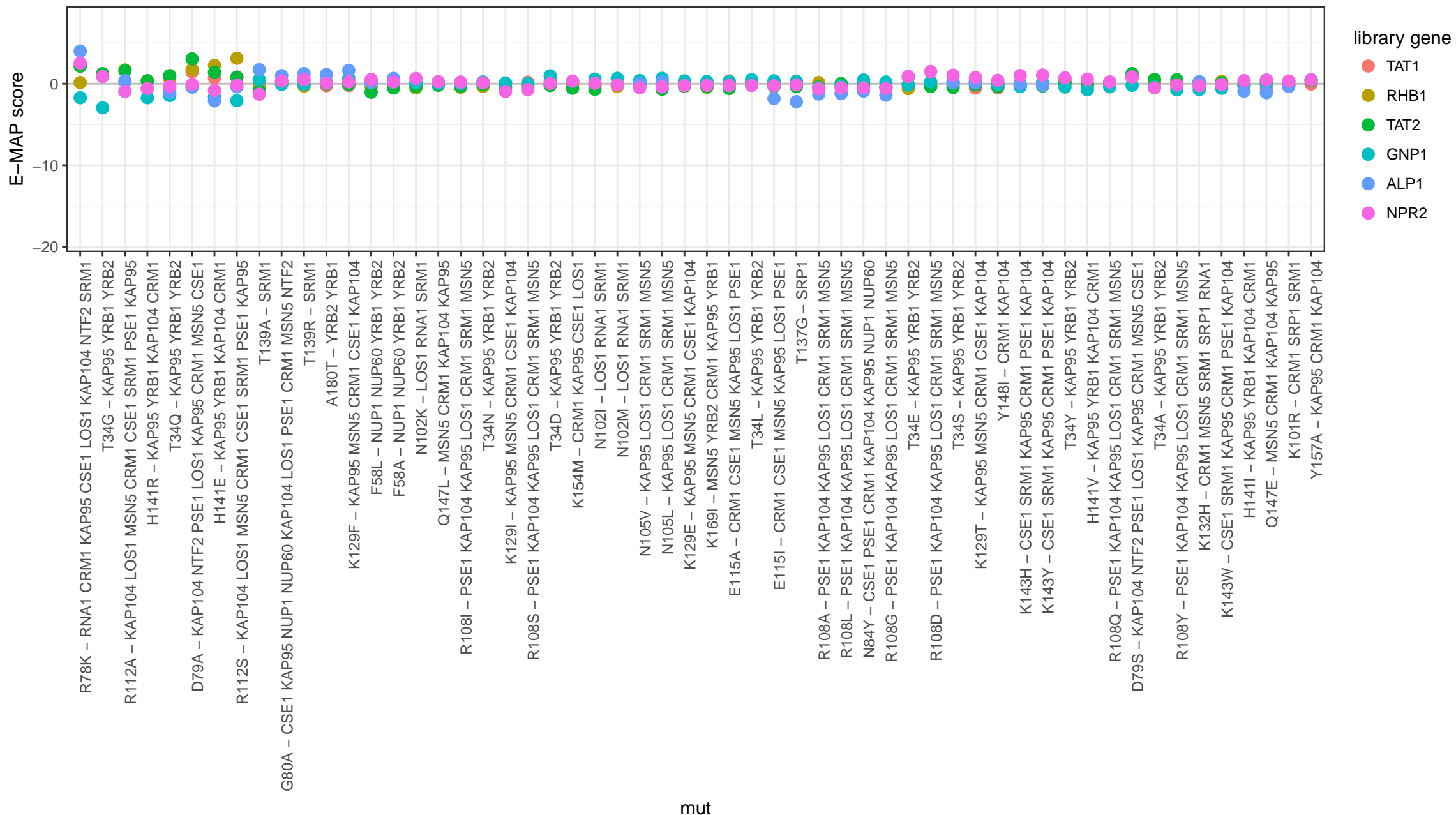
mut

library gene

- TPS2
- TPS1
- TPS3
- TSL1



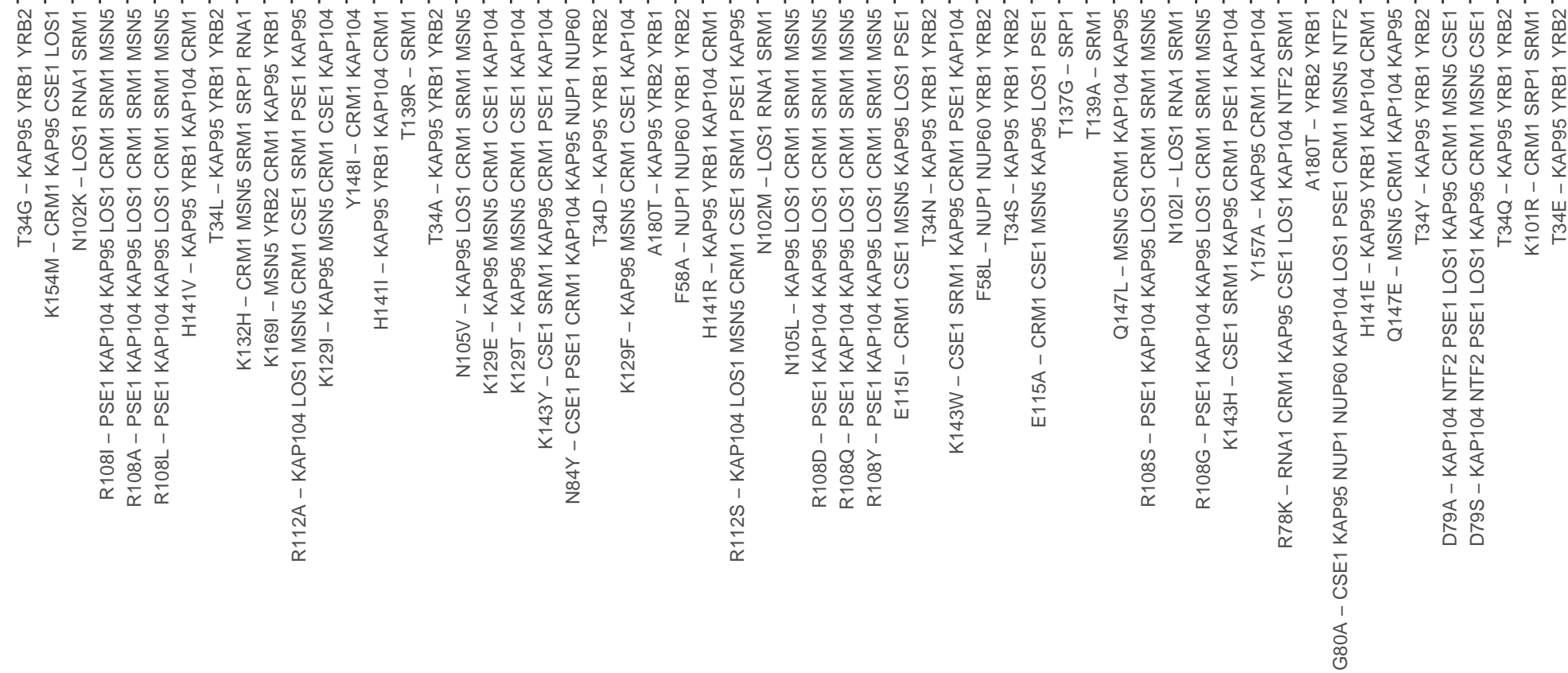
amino acid transport



anaphase-promoting complex

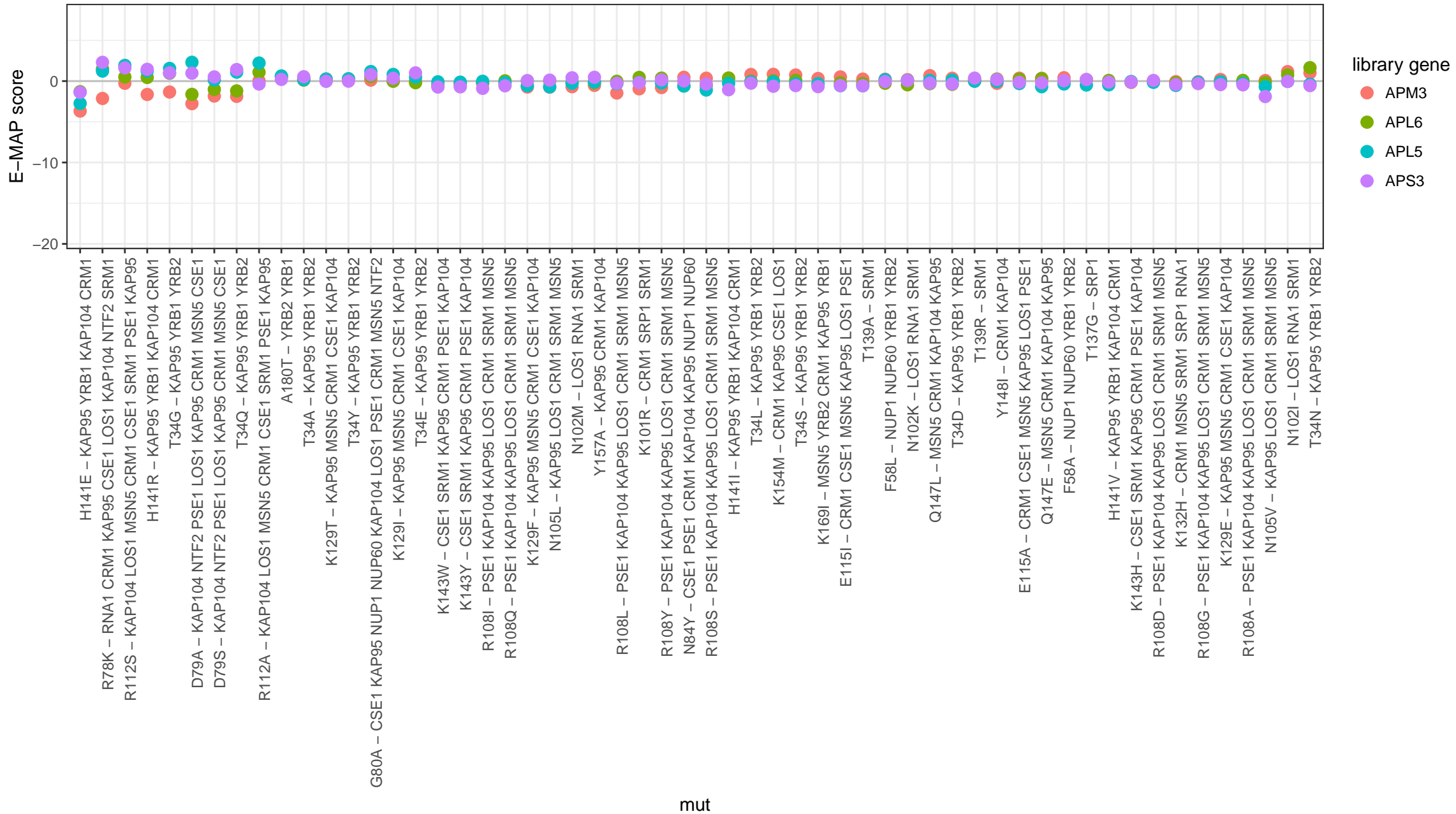
E-MAP score

0
-10
-20

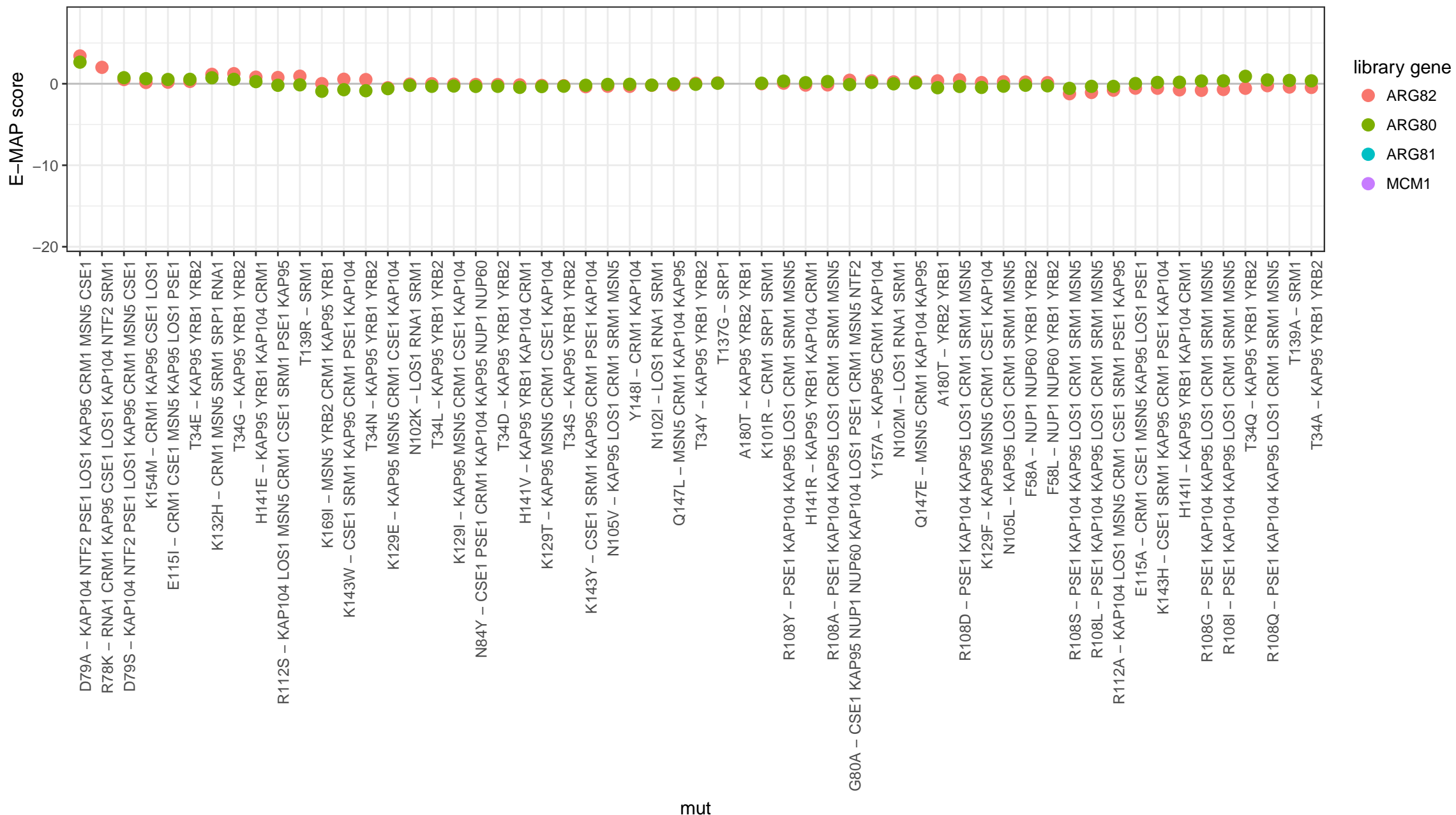


- MSN5
- DOC1
- CDC27
- CDC23
- CDC20
- CDC16
- APC5
- APC4
- APC2
- APC1
- APC11
- CDH1
- CDC26
- SWM1

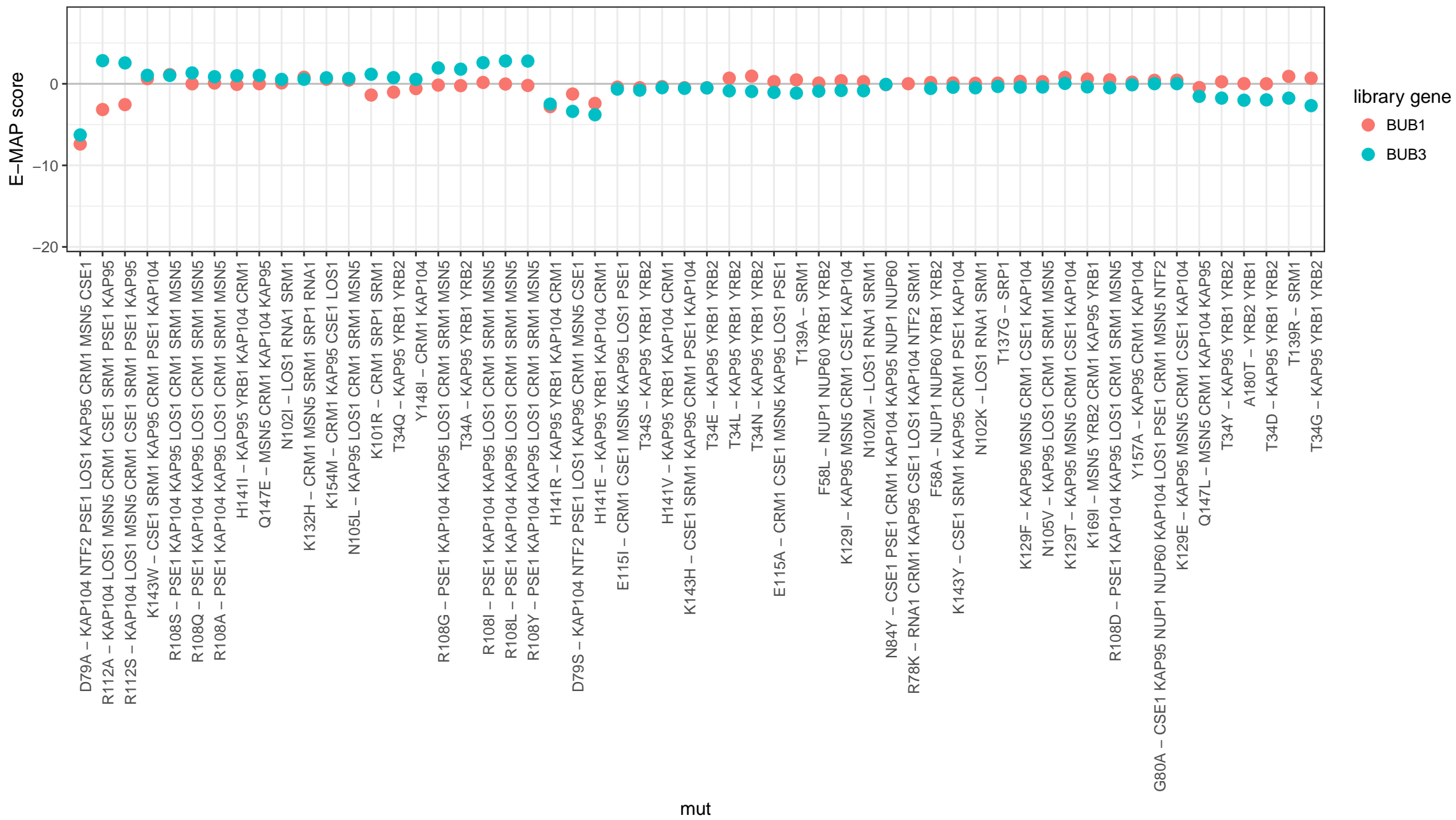
AP-3 adaptor complex



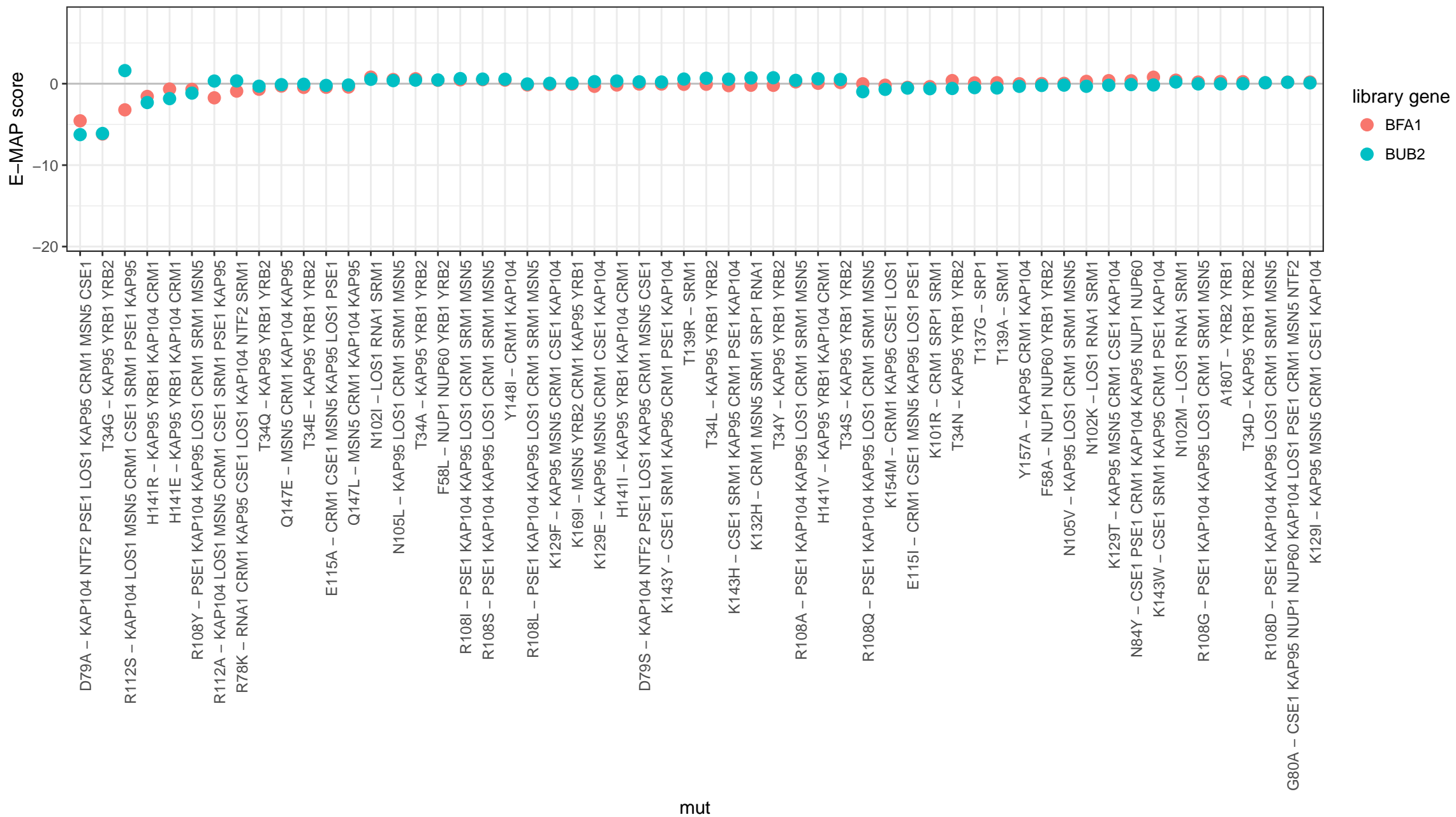
ARGR complex



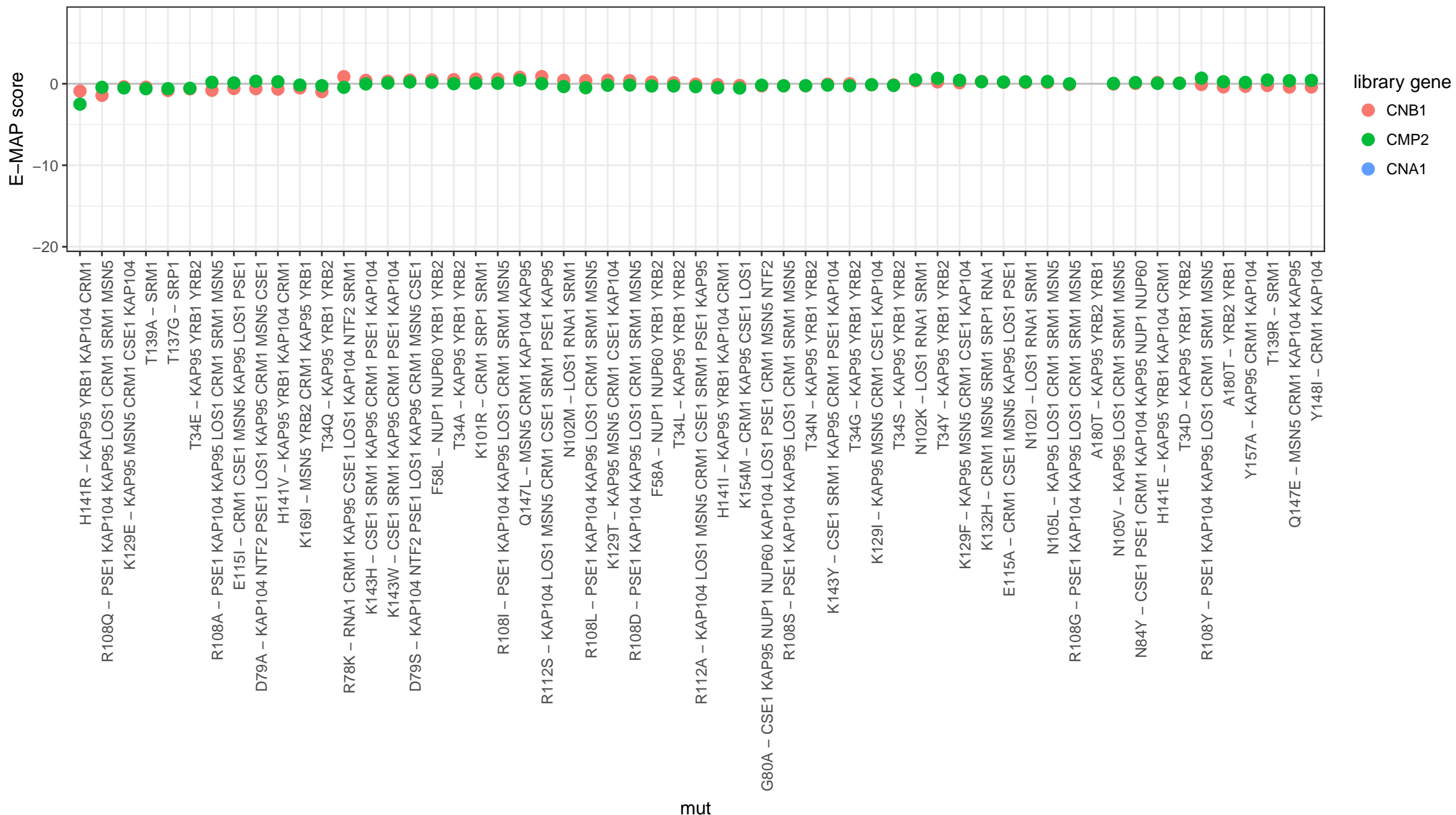
Bub1p/Bub3p complex



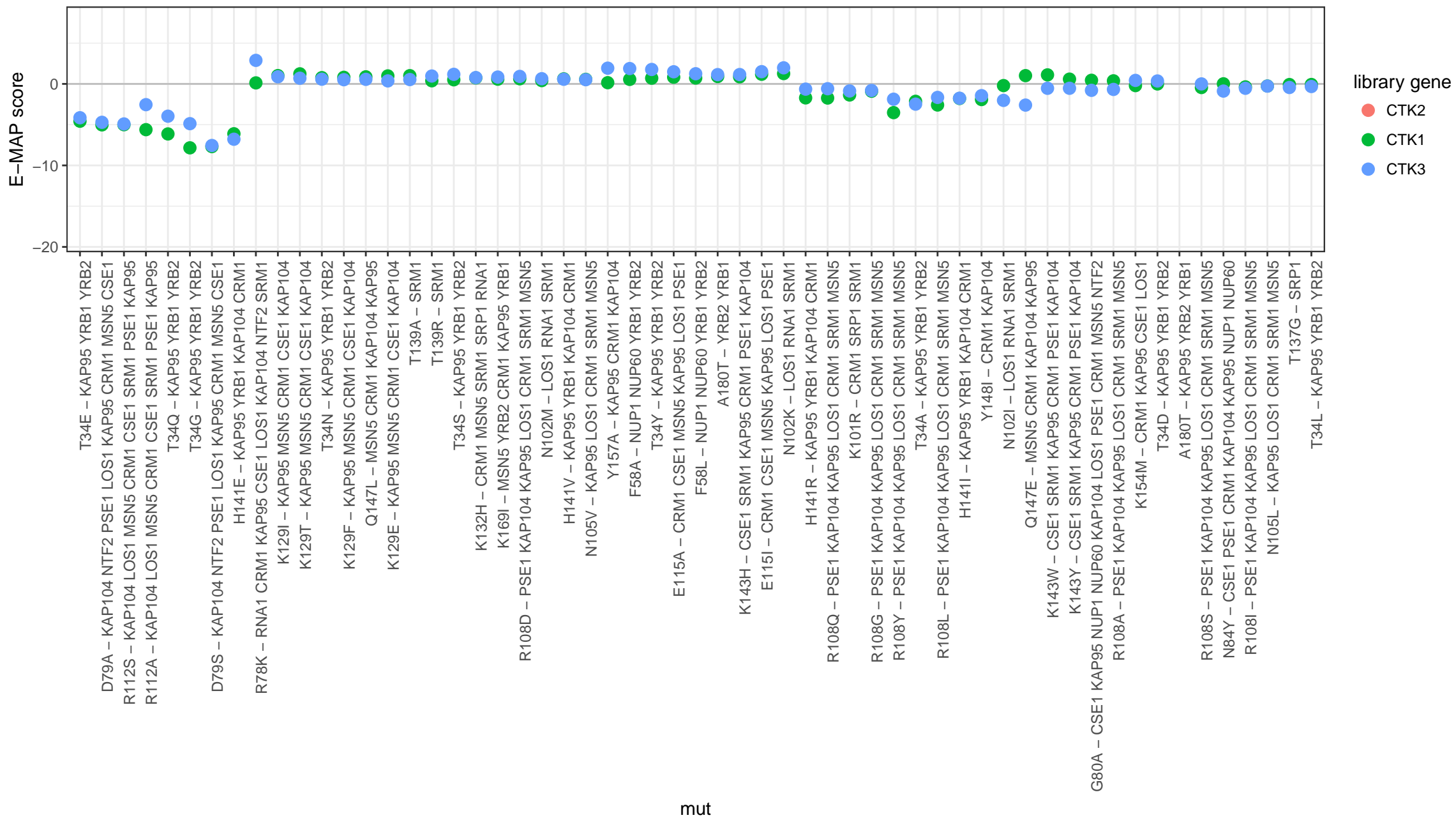
Bub2p/Bfa1p complex



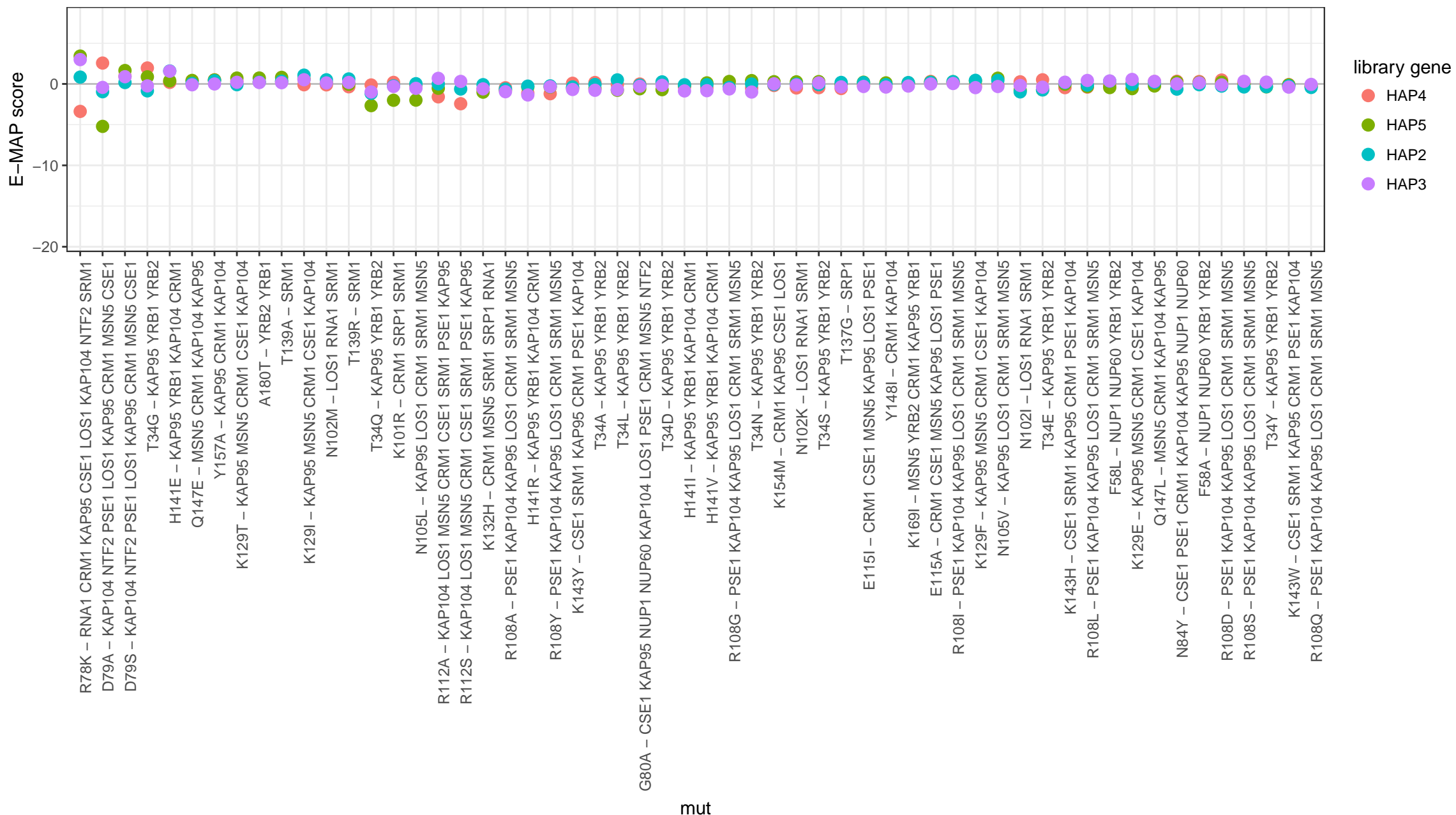
calcineurin complex



carboxy-terminal domain protein kinase complex



CCAAT-binding factor complex



CCR4–NOT core complex

E-MAP score

-20

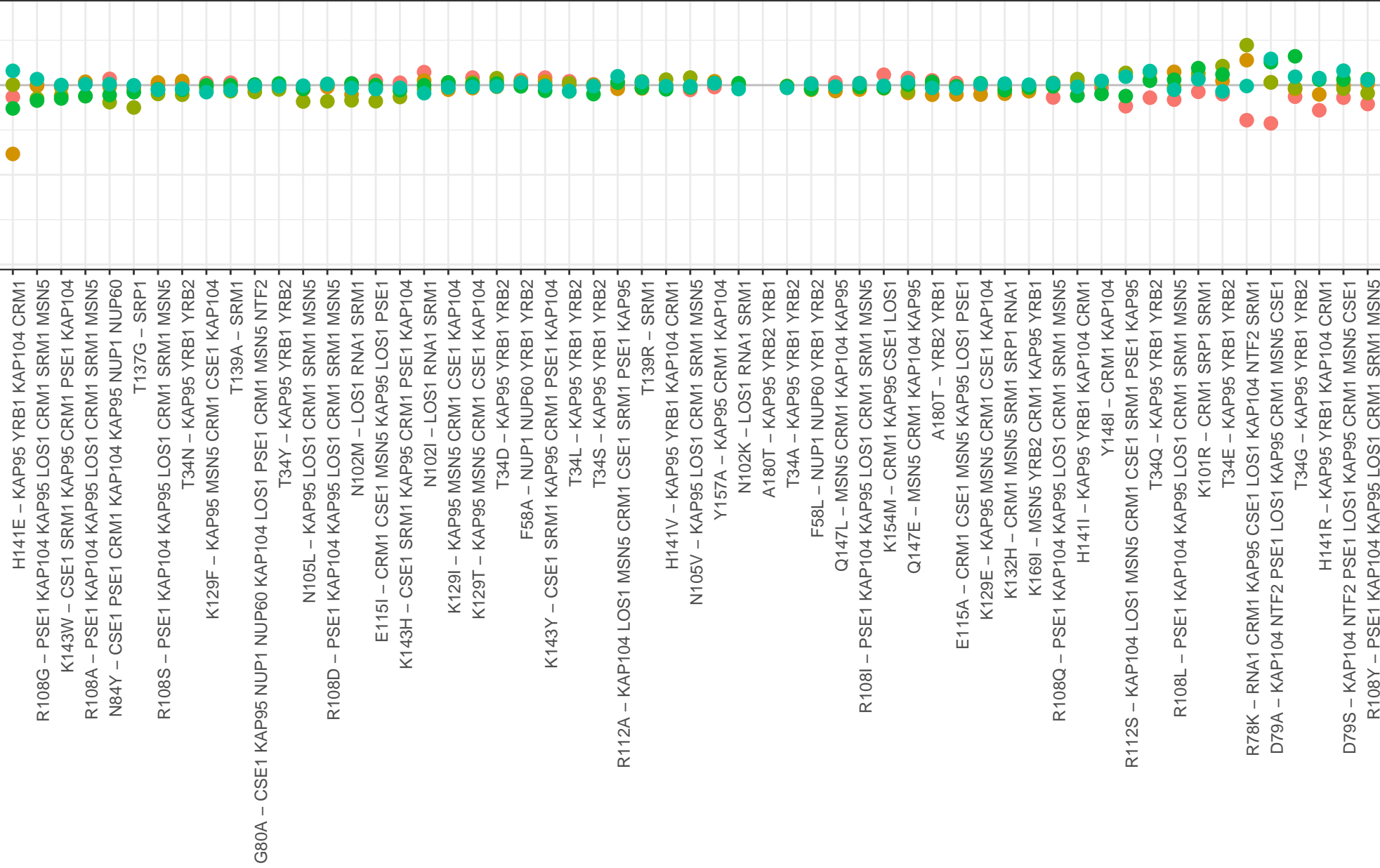
-10

0

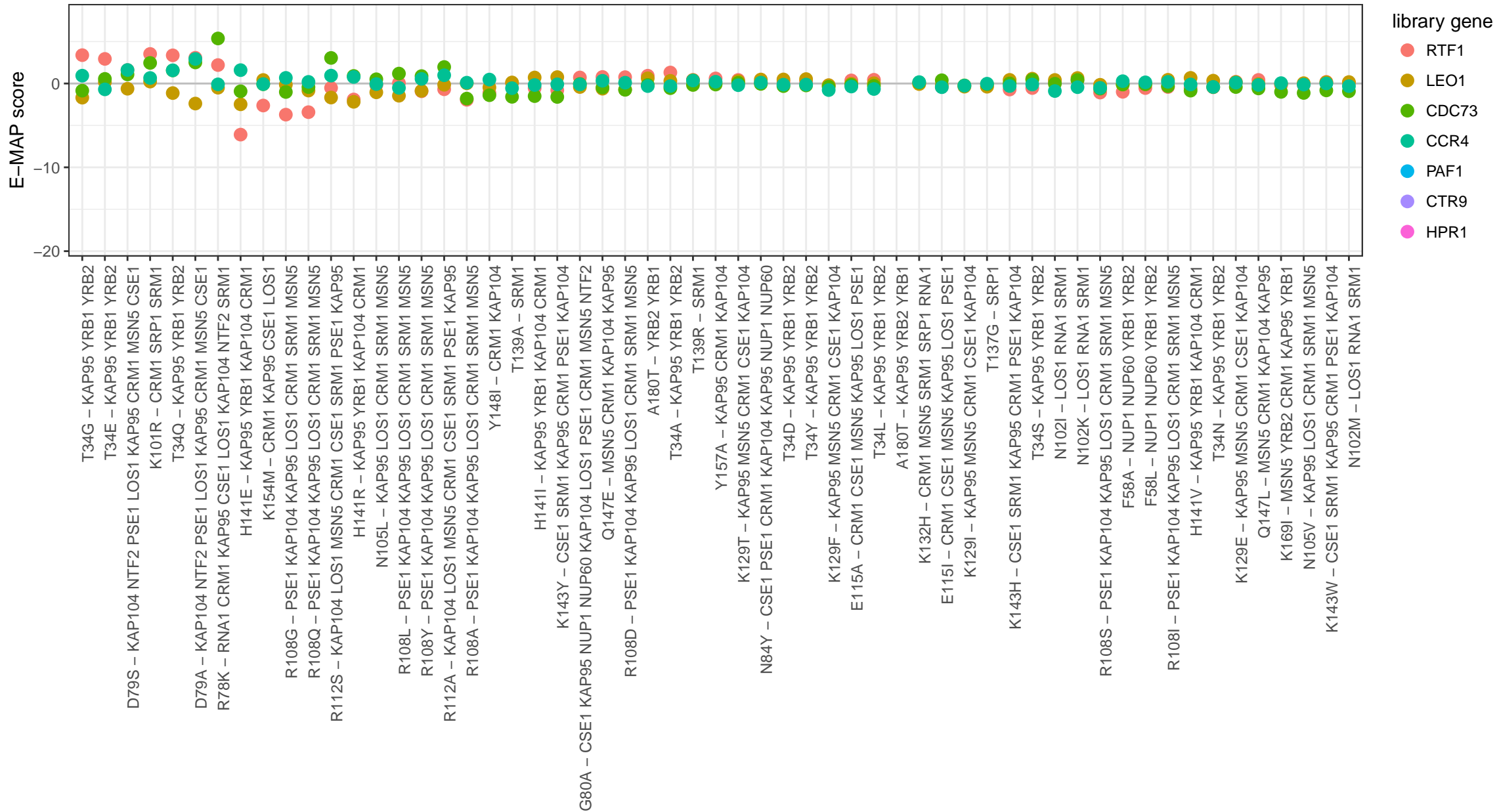
mut

library gene

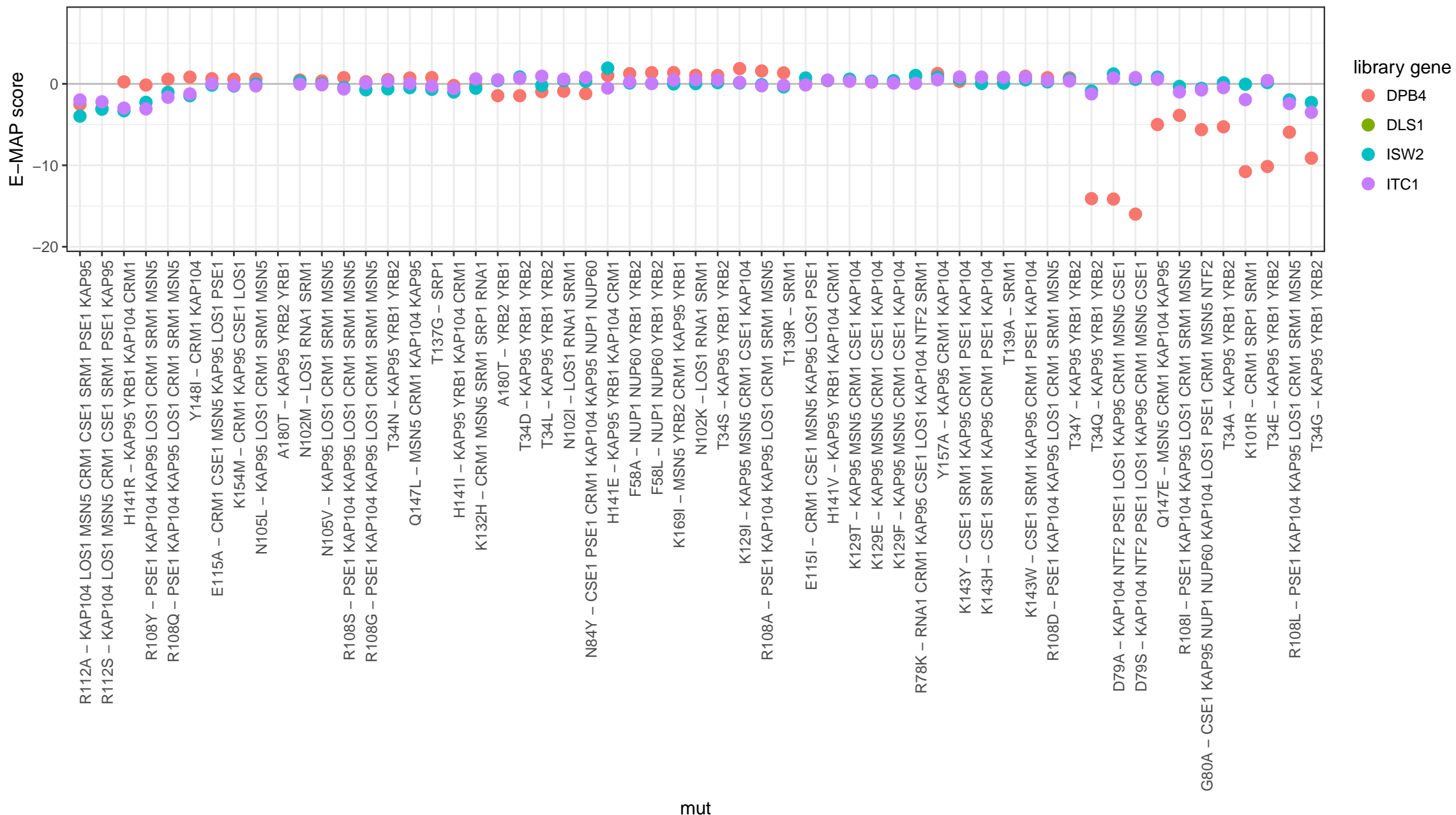
- NOT3
- CAF130
- MOT2
- CAF40
- CCR4
- POP2
- NOT5
- CDC36
- CDC39



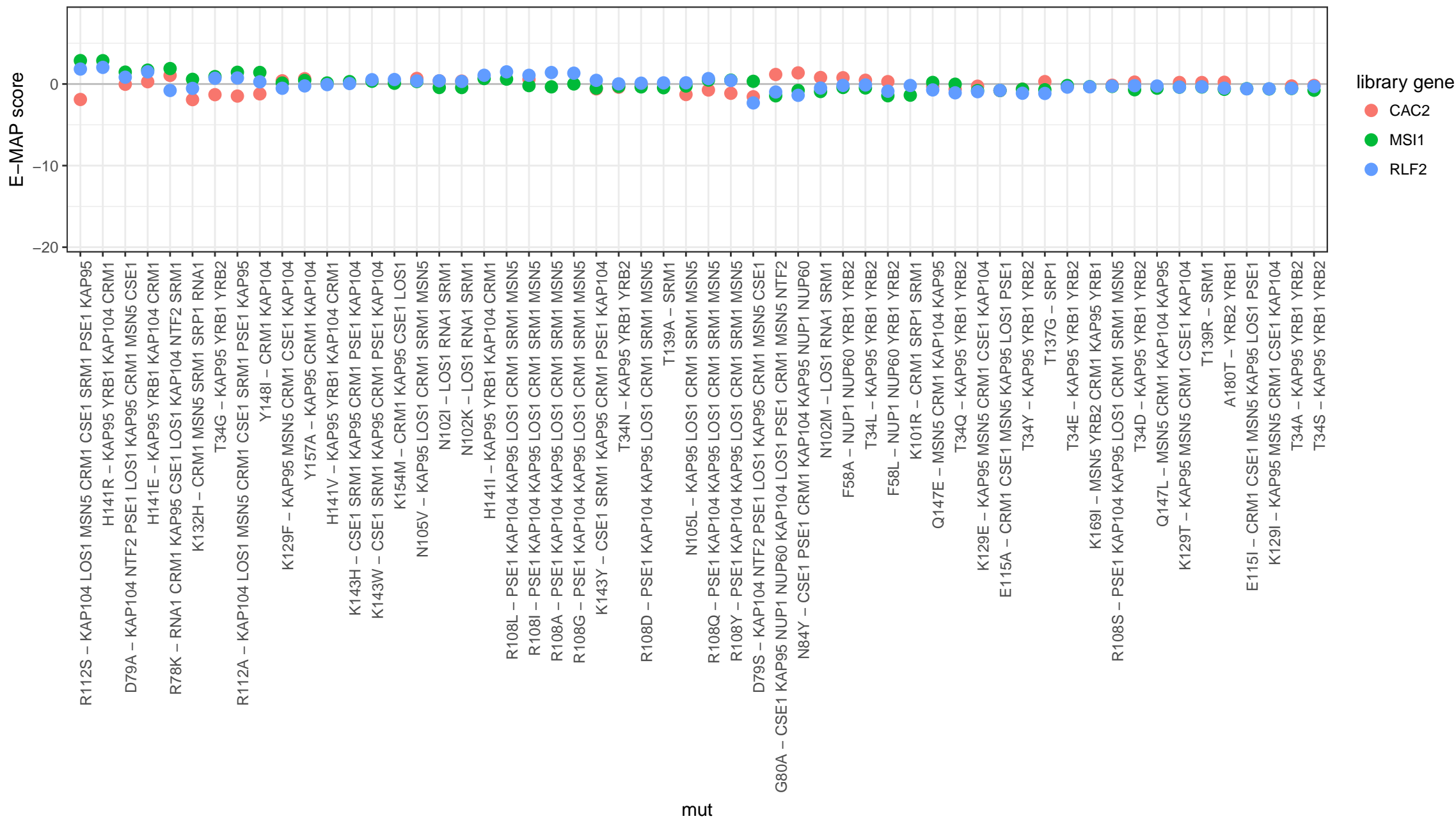
Cdc73p/Paf1p complex



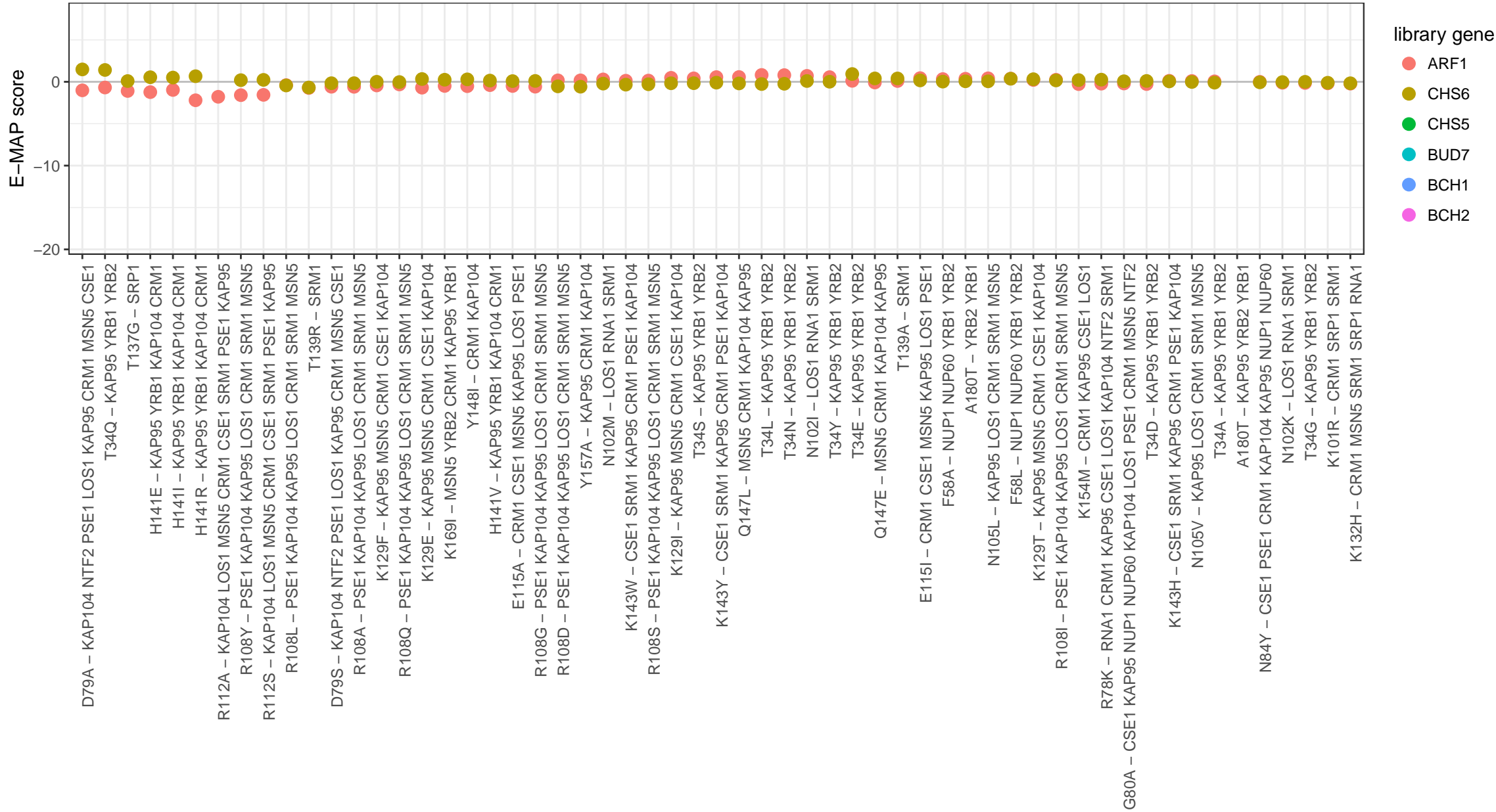
chromatin accessibility complex



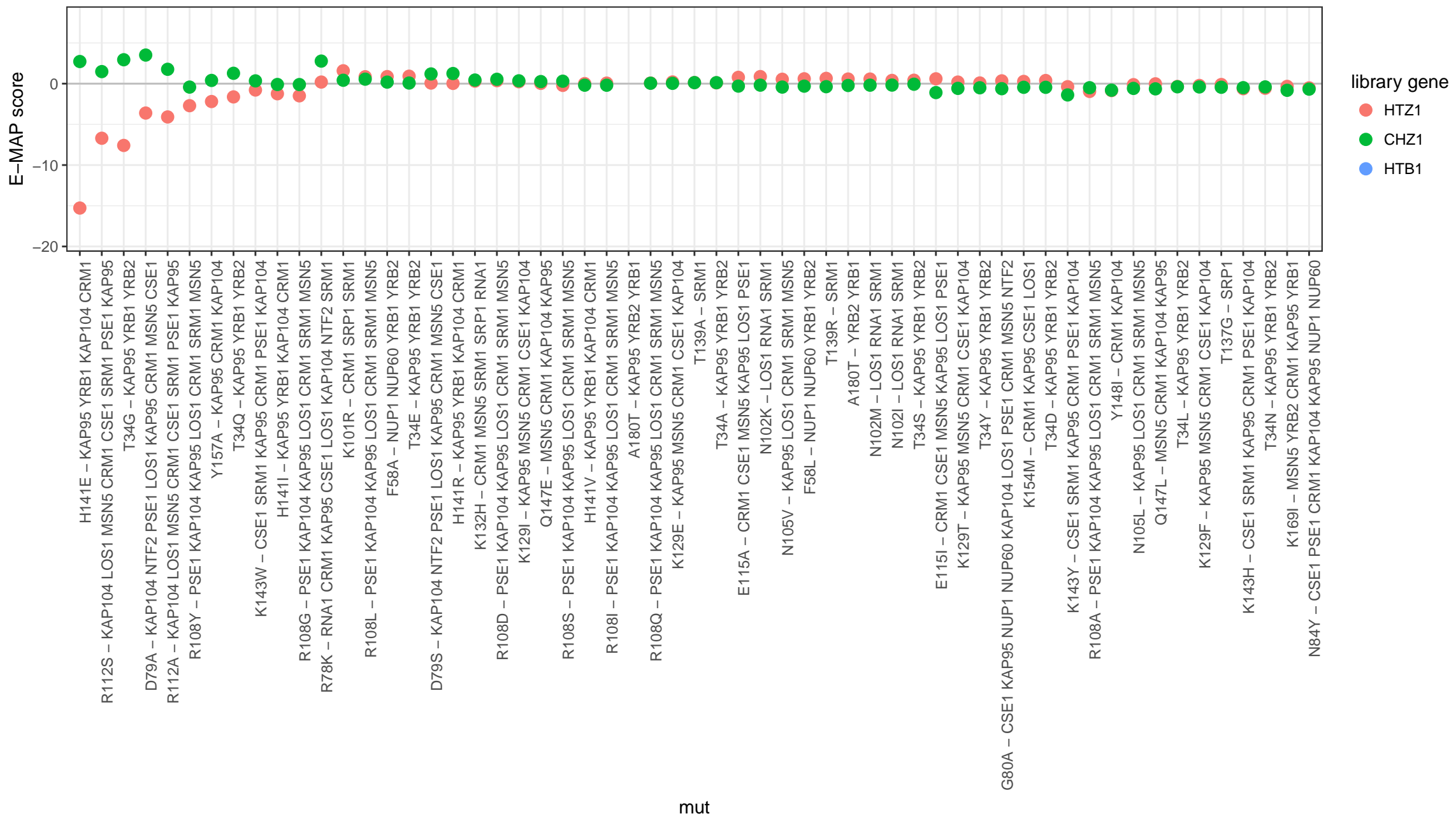
chromatin assembly complex



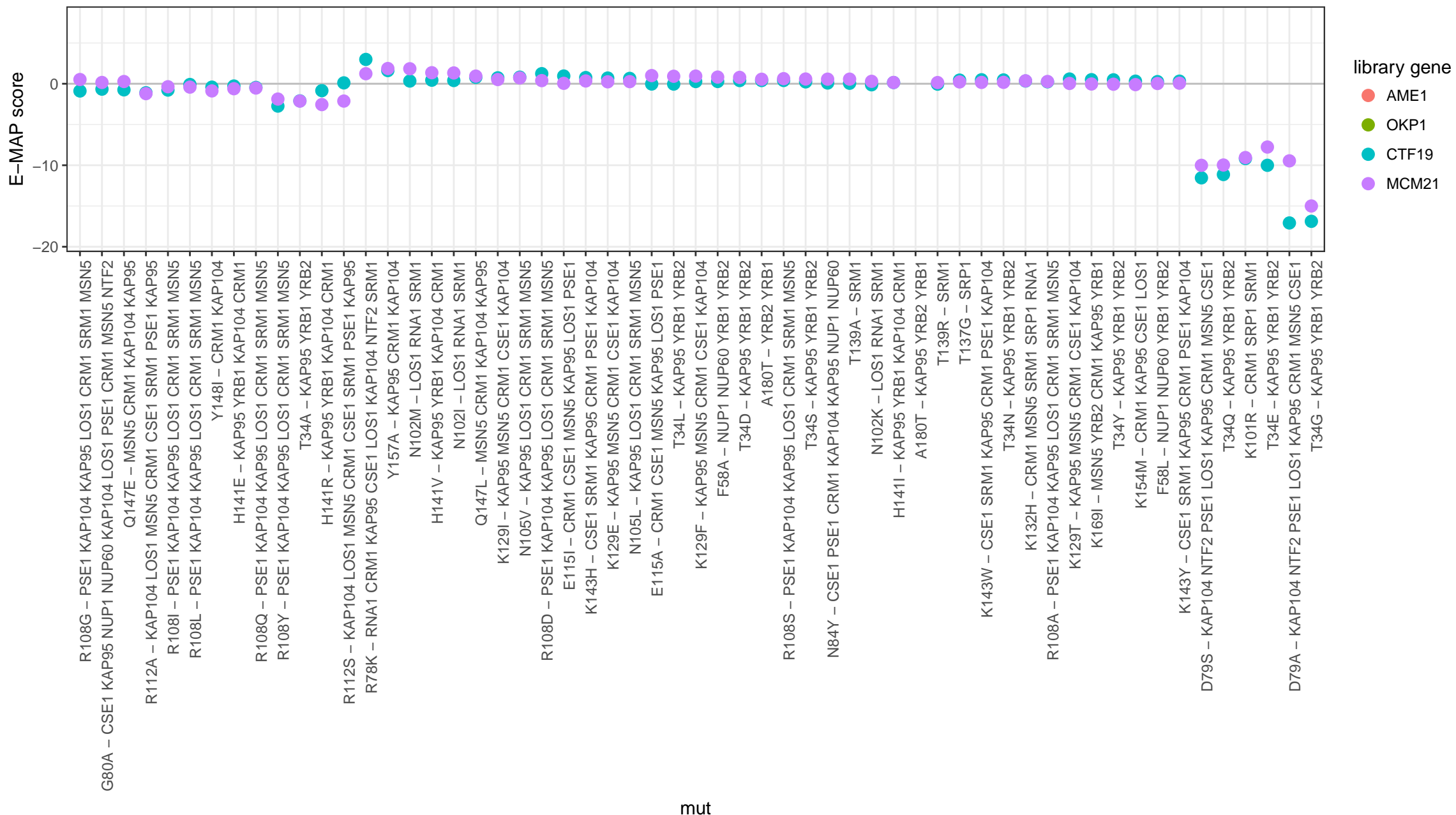
Chs5p/Arf-1 binding proteins (ChAPs)



Chz1p/Htz1p/Htb1p complex



COMA complex



commitment complex

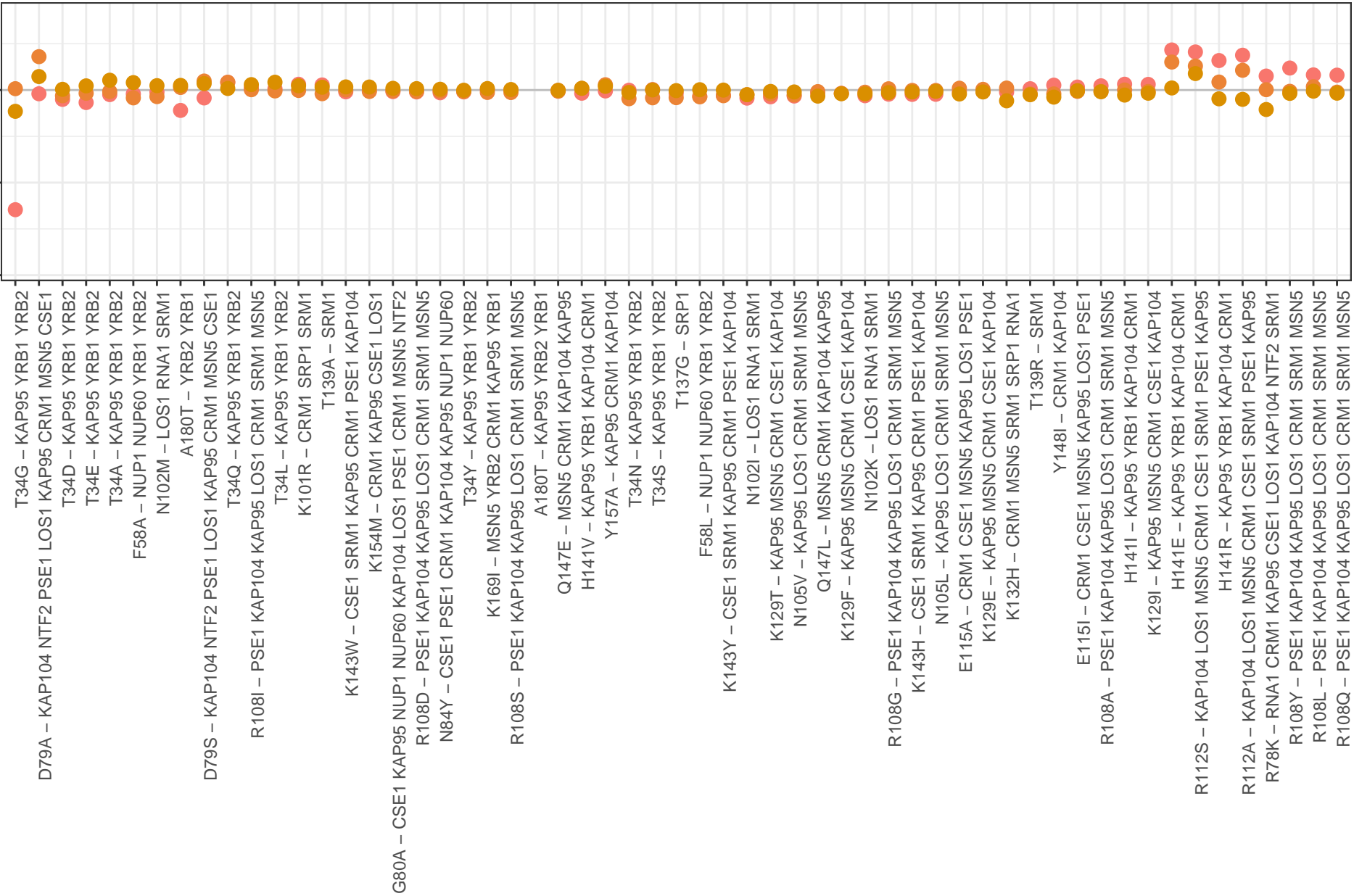
E-MAP score

-20

-10

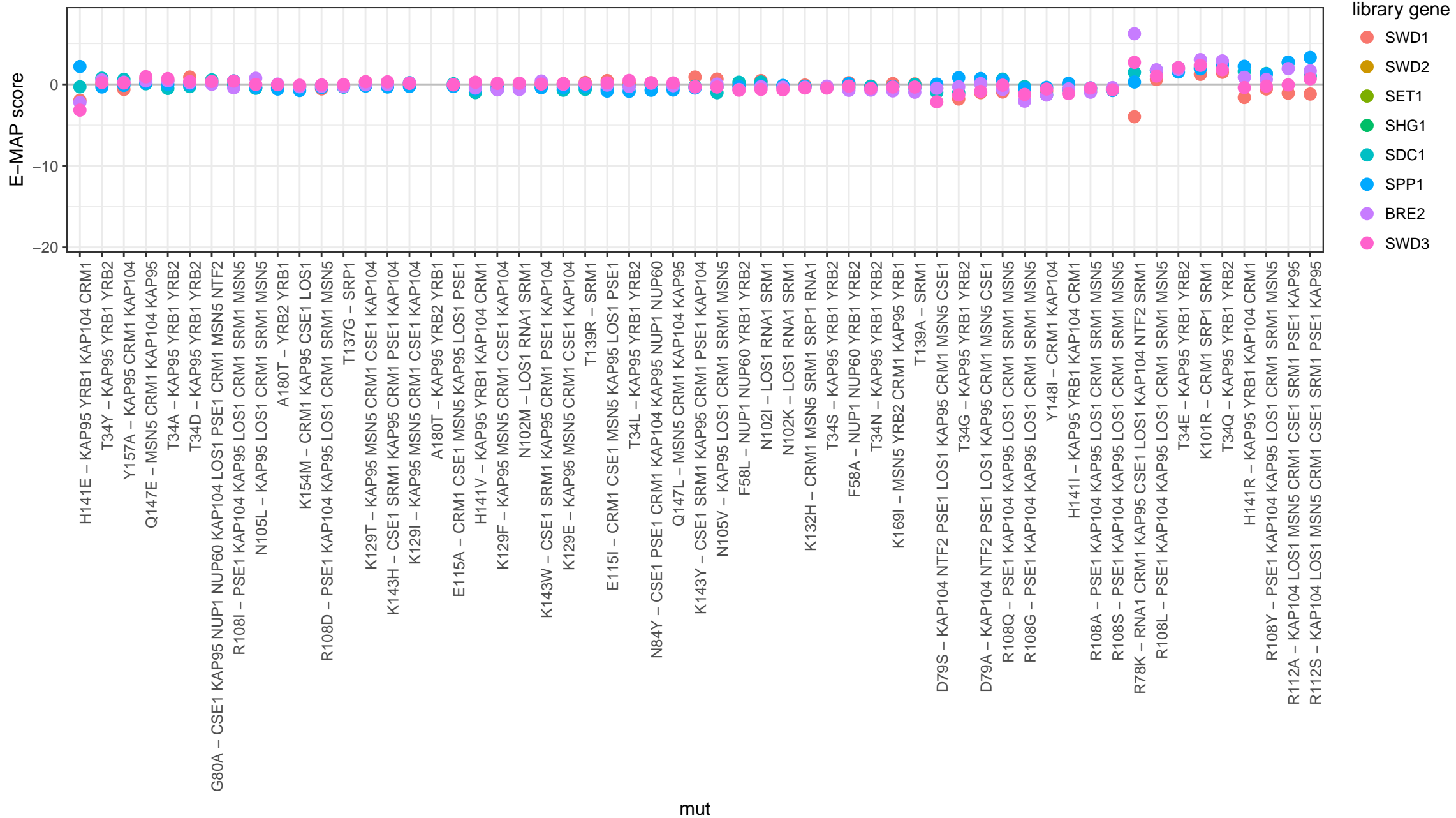
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mut



- library gene
- MUD2
 - MUD1
 - NAM8
 - YHC1
 - STO1
 - SNU71
 - SNU56
 - SNP1
 - SMX3
 - SMX2
 - SME1
 - SMD3
 - SMD2
 - SMD1
 - SMB1
 - PRP42
 - PRP40
 - PRP39
 - MSL5
 - CBC2
 - LUC7

COMPASS complex



COPII

E-MAP score

-20

-10

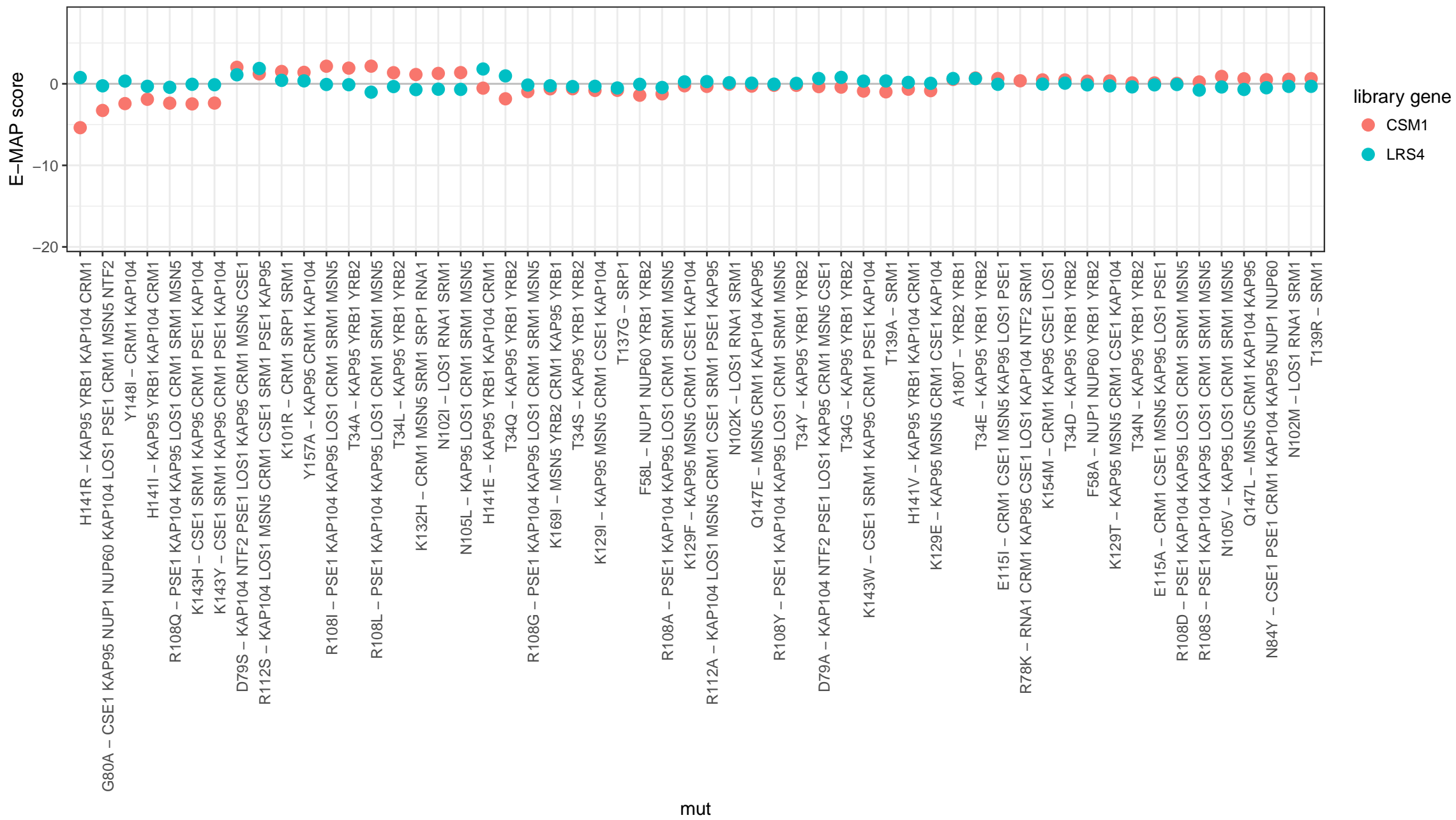
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mut

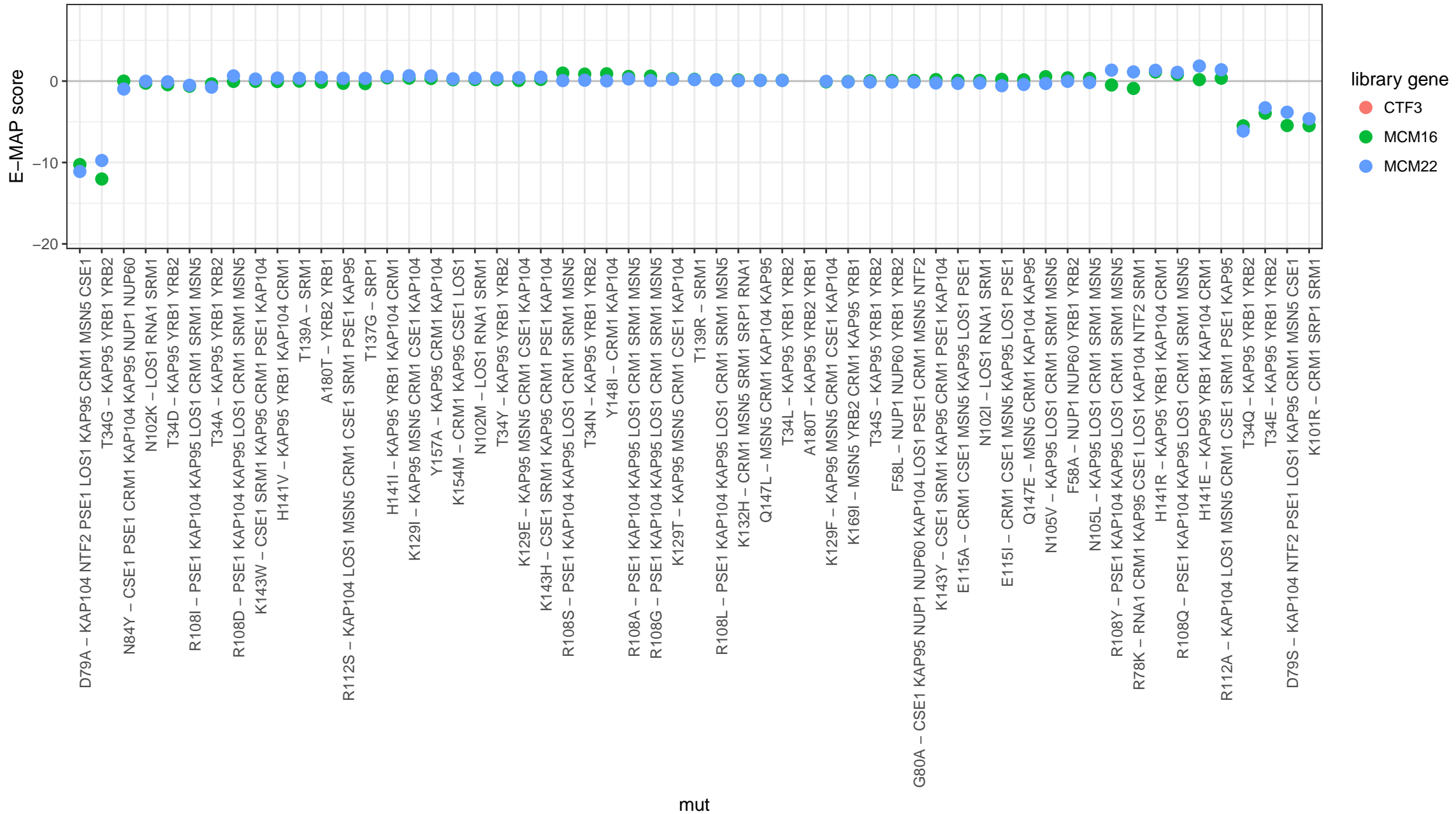
R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
H141E – KAP95 YRB1 KAP104 CRM1
T34Q – KAP95 YRB1 YRB2
H141R – KAP95 YRB1 KAP104 CRM1
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
K101R – CRM1 SRP1 SRM1
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
Y148I – CRM1 KAP104
D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
Q147E – MSN5 CRM1 KAP104 KAP95
T34D – KAP95 YRB1 YRB2
F58A – NUP1 NUP60 YRB1 YRB2
F58L – NUP1 NUP60 YRB1 YRB2
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T139R – SRM1
A180T – KAP95 YRB2 YRB1
N102M – LOS1 RNA1 SRM1
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
Y157A – KAP95 CRM1 KAP104
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34E – KAP95 YRB1 YRB2
T34L – KAP95 YRB1 YRB2
N102I – LOS1 RNA1 SRM1
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
A180T – YRB2 YRB1
Q147L – MSN5 CRM1 KAP104 KAP95
H141V – KAP95 YRB1 KAP104 CRM1
K154M – CRM1 KAP95 CSE1 LOS1
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
T139A – SRM1
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34A – KAP95 YRB1 YRB2
T34Y – KAP95 YRB1 YRB2
T34N – KAP95 YRB1 YRB2
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
T137G – SRP1
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
T34S – KAP95 YRB1 YRB2
N102K – LOS1 RNA1 SRM1
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
T34G – KAP95 YRB1 YRB2
H141I – KAP95 YRB1 KAP104 CRM1
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
K129I – KAP95 MSN5 CRM1 CSE1 KAP104

- library genes
- ERV25
 - ERP2
 - SEC31
 - SEC24
 - SEC23
 - SEC16
 - SEC13
 - EMP24
 - SAR1
 - ERP1
 - ERV46

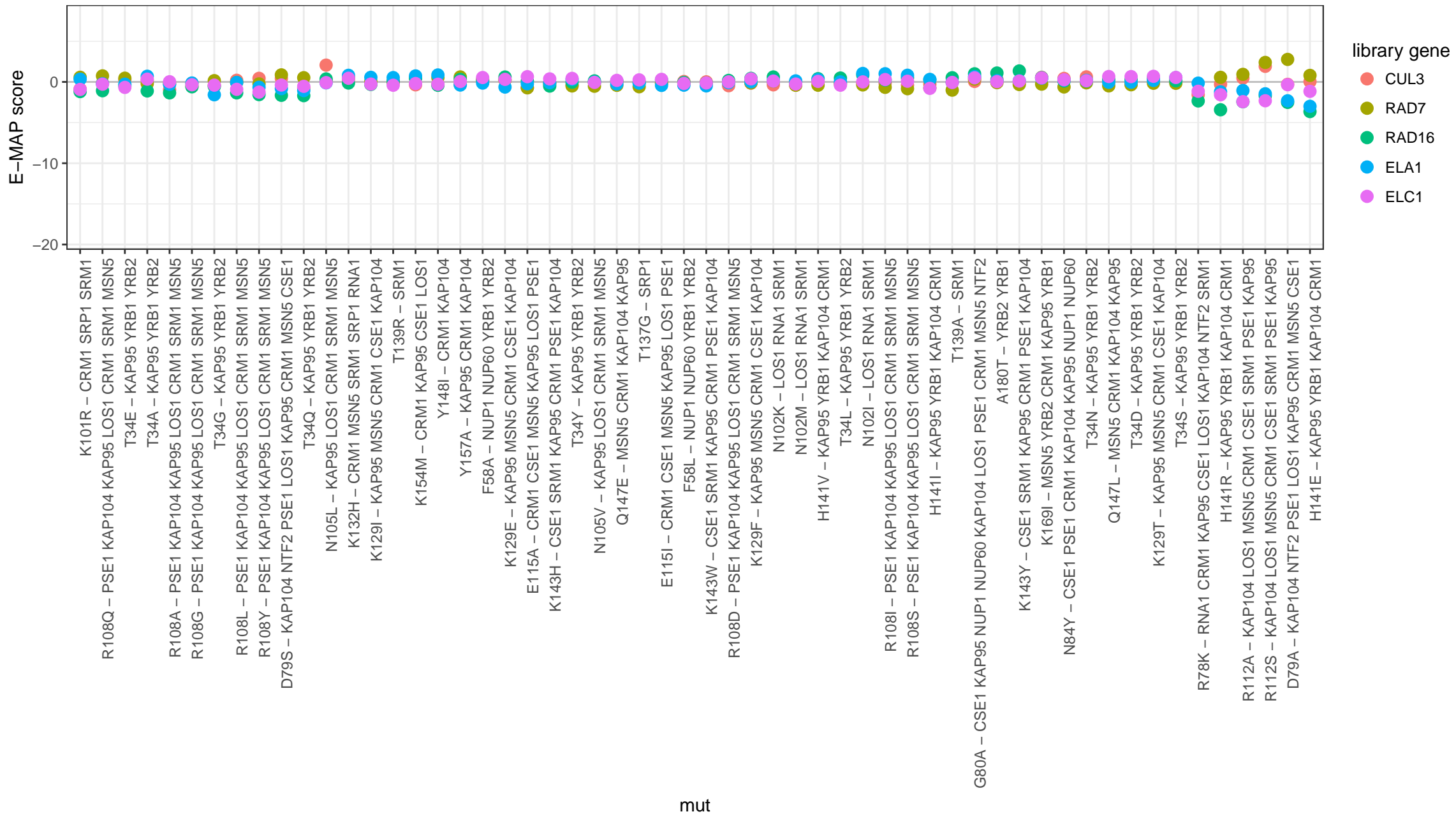
Csm1p/Lrs4p complex



Ctf3p protein complex



Cul3p–RING ubiquitin ligase complex



Cytochrome bc1 complex (Ubiquinol–cytochrome c reductase complex, complex III)

E-MAP score

-20

-10

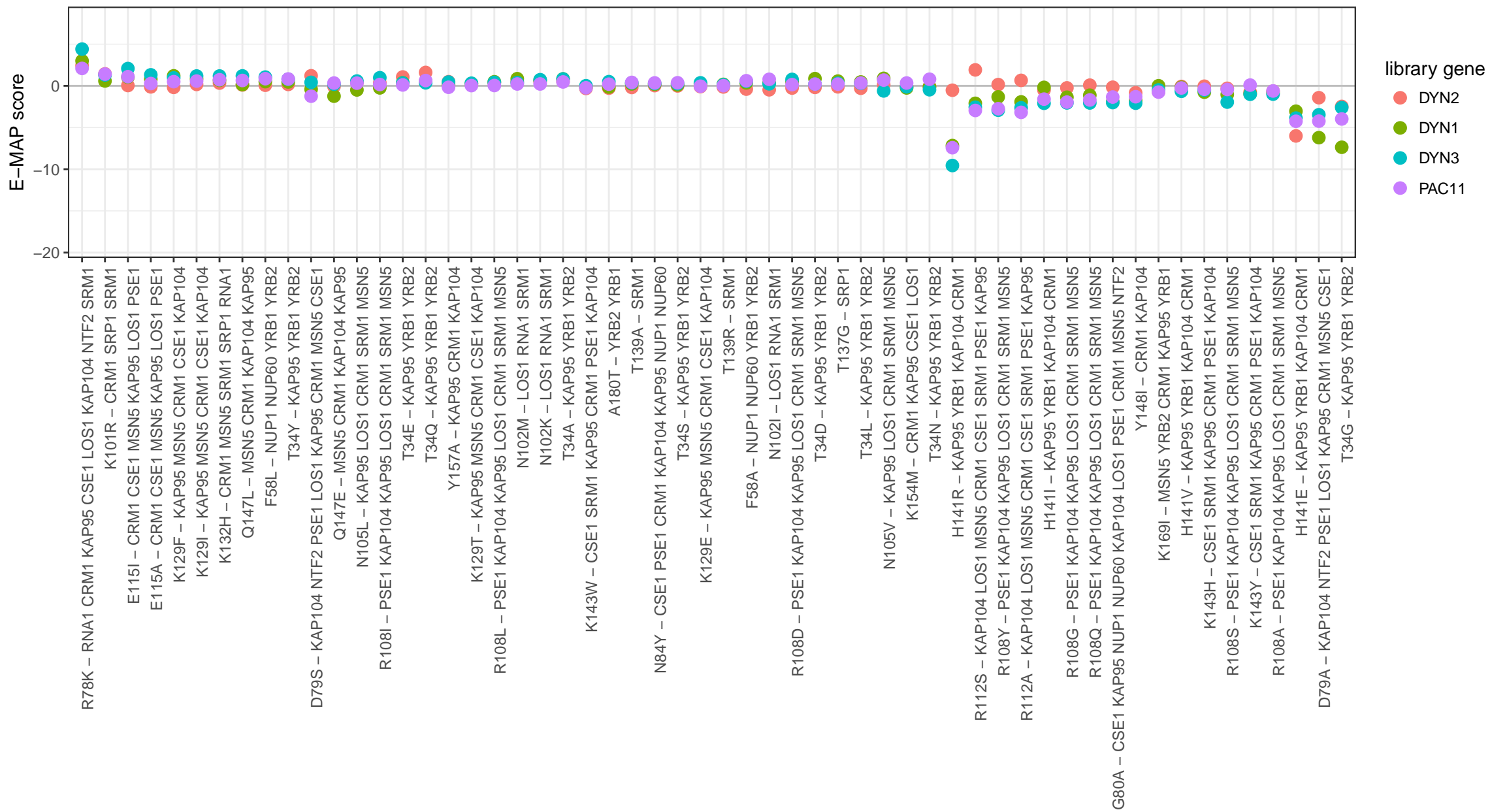
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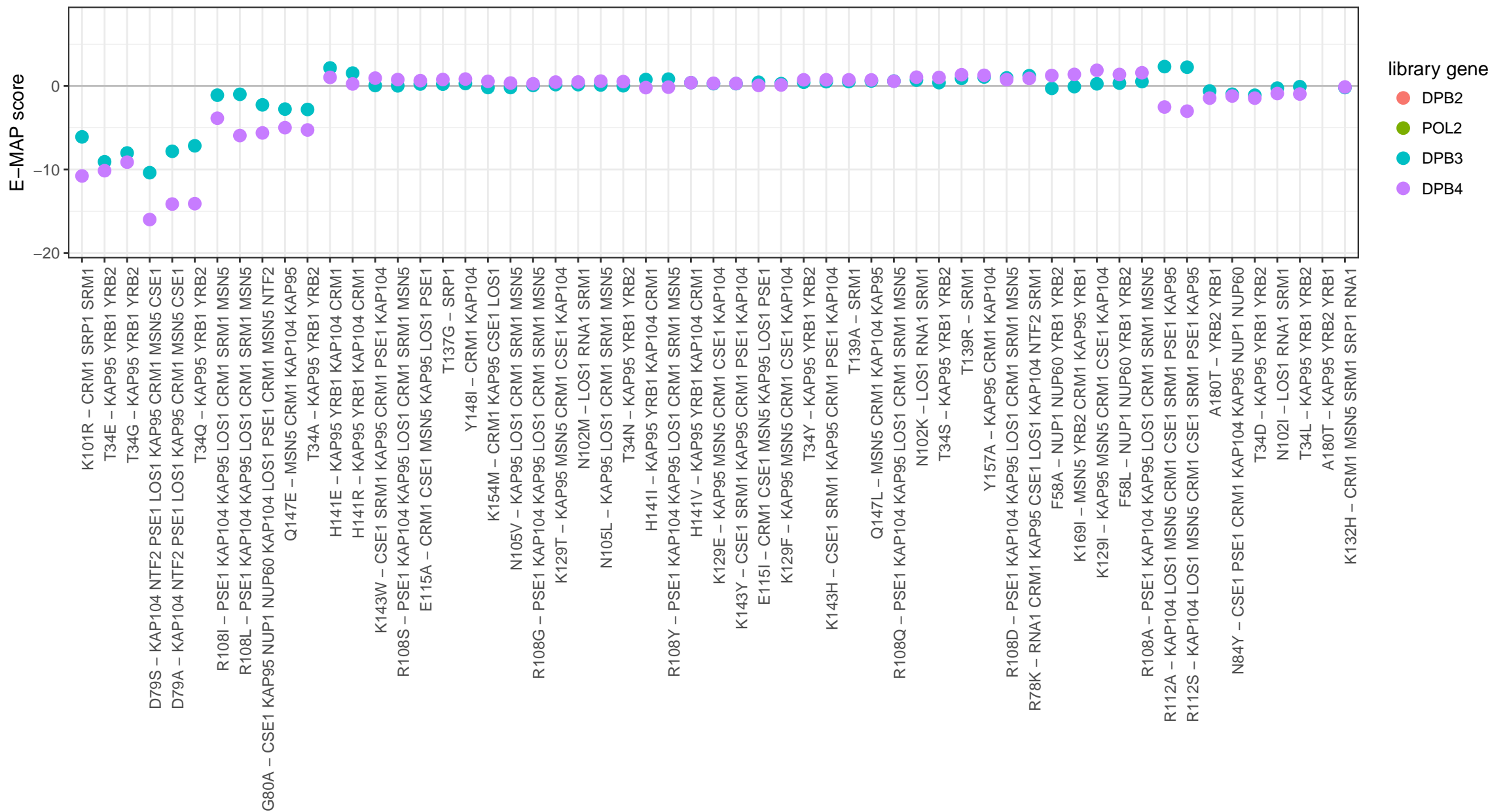
mut

- library gene
- QCR10
 - CYT1
 - RIP1
 - QCR9
 - QCR8
 - QCR7
 - QCR6
 - QCR2
 - COB
 - COR1

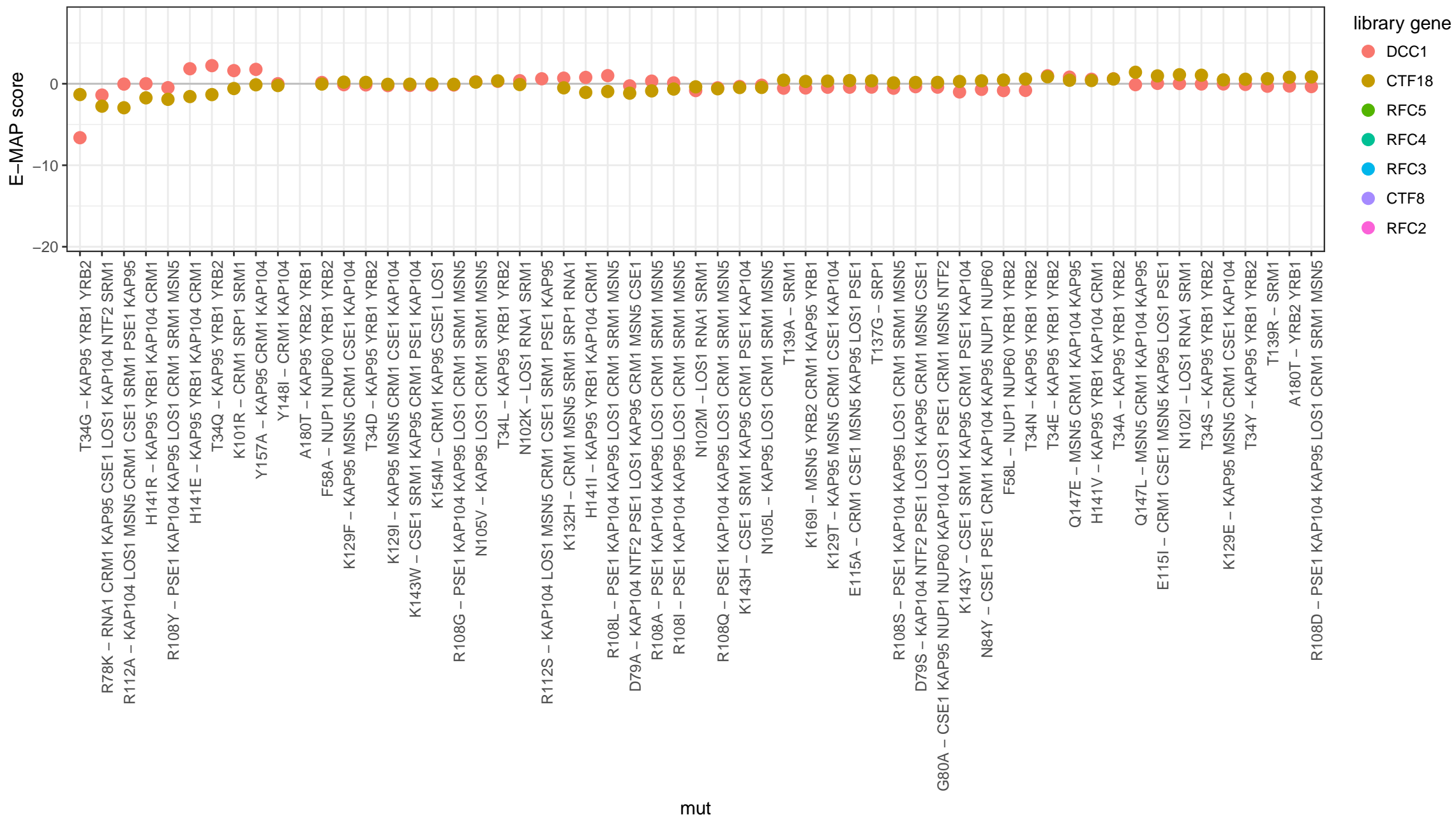
cytoplasmic dynein complex



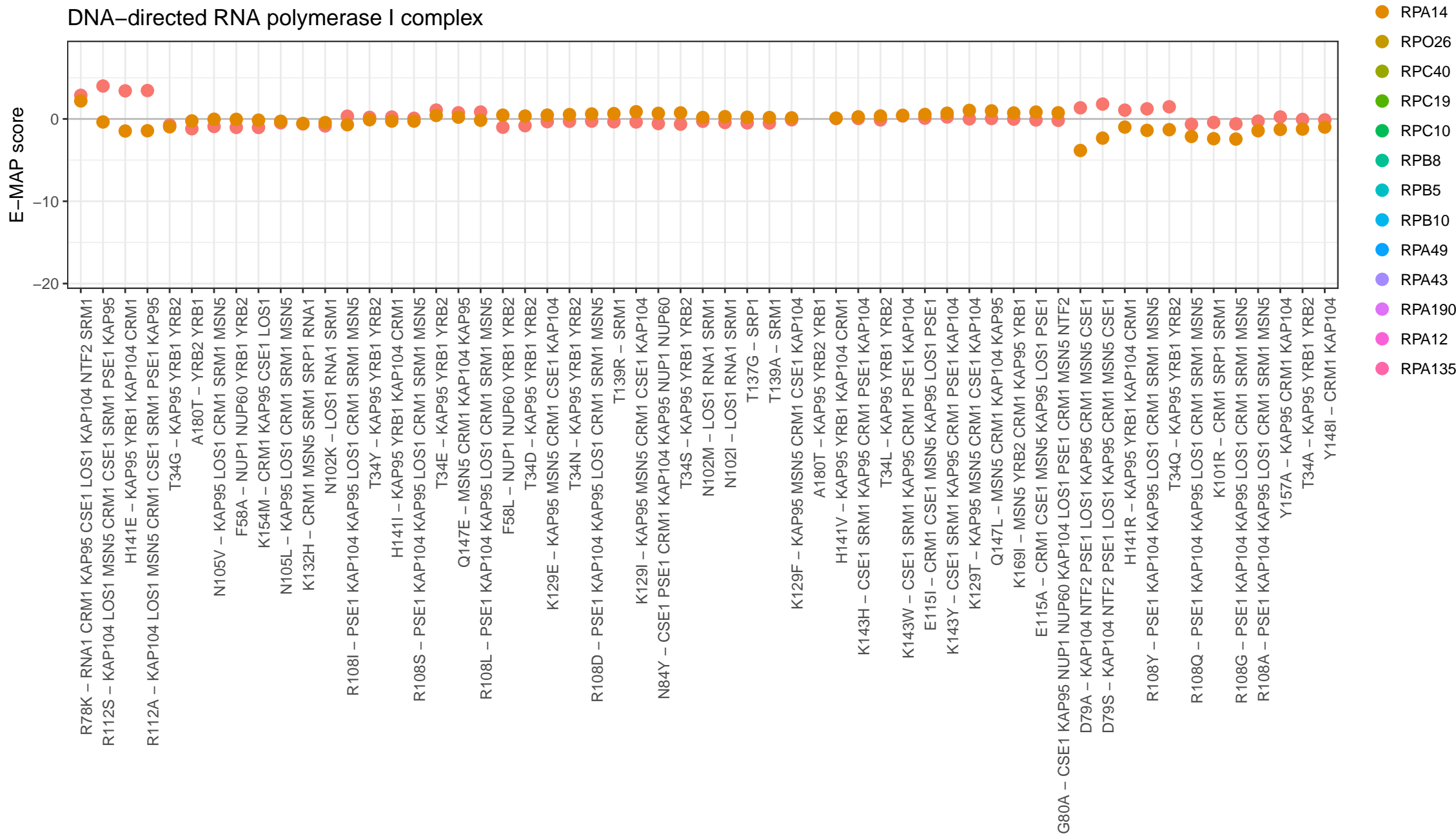
DNA polymerase epsilon complex



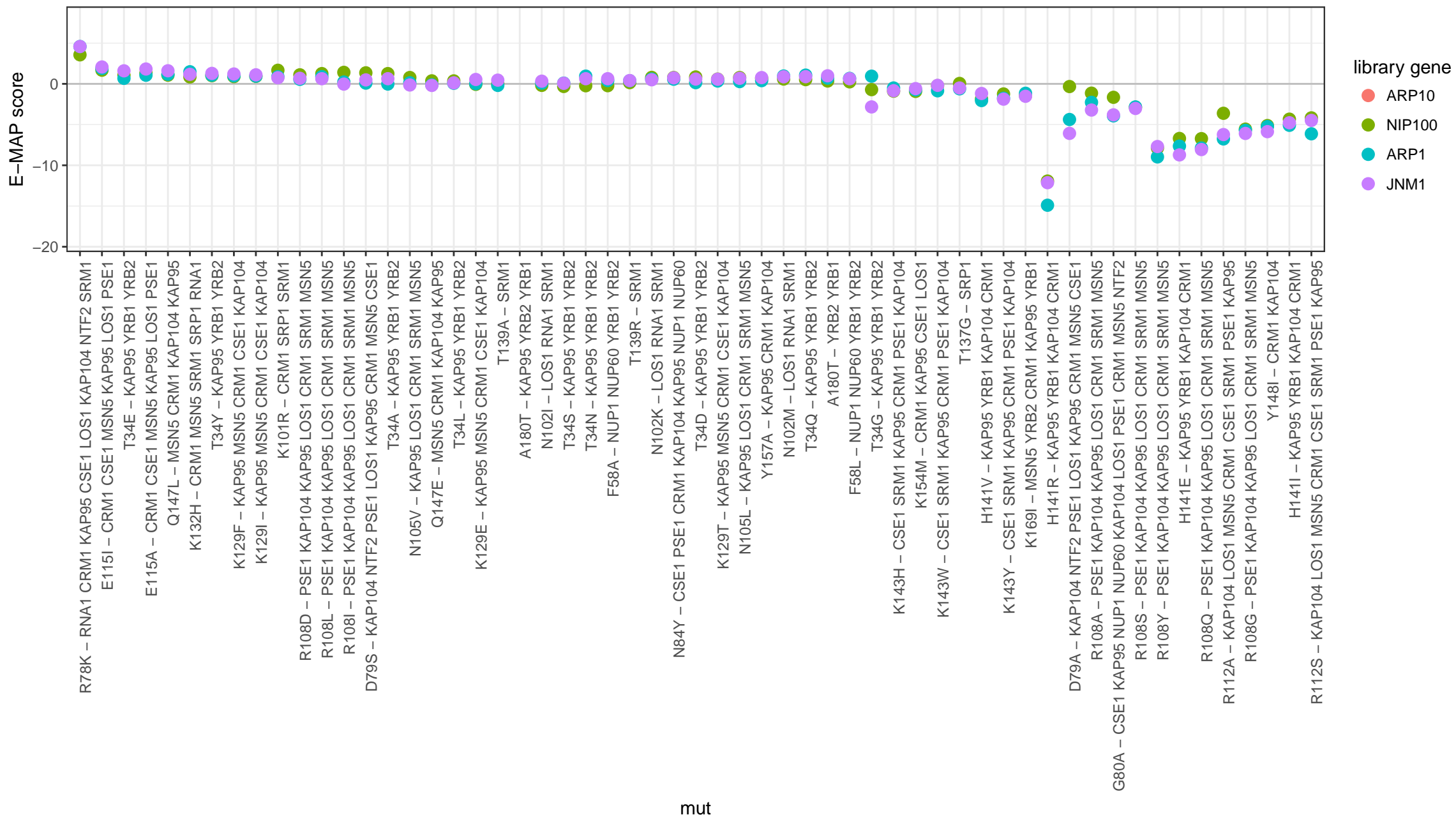
DNA replication factor C complex (Ctf18p/Ctf8p/dcc1p)



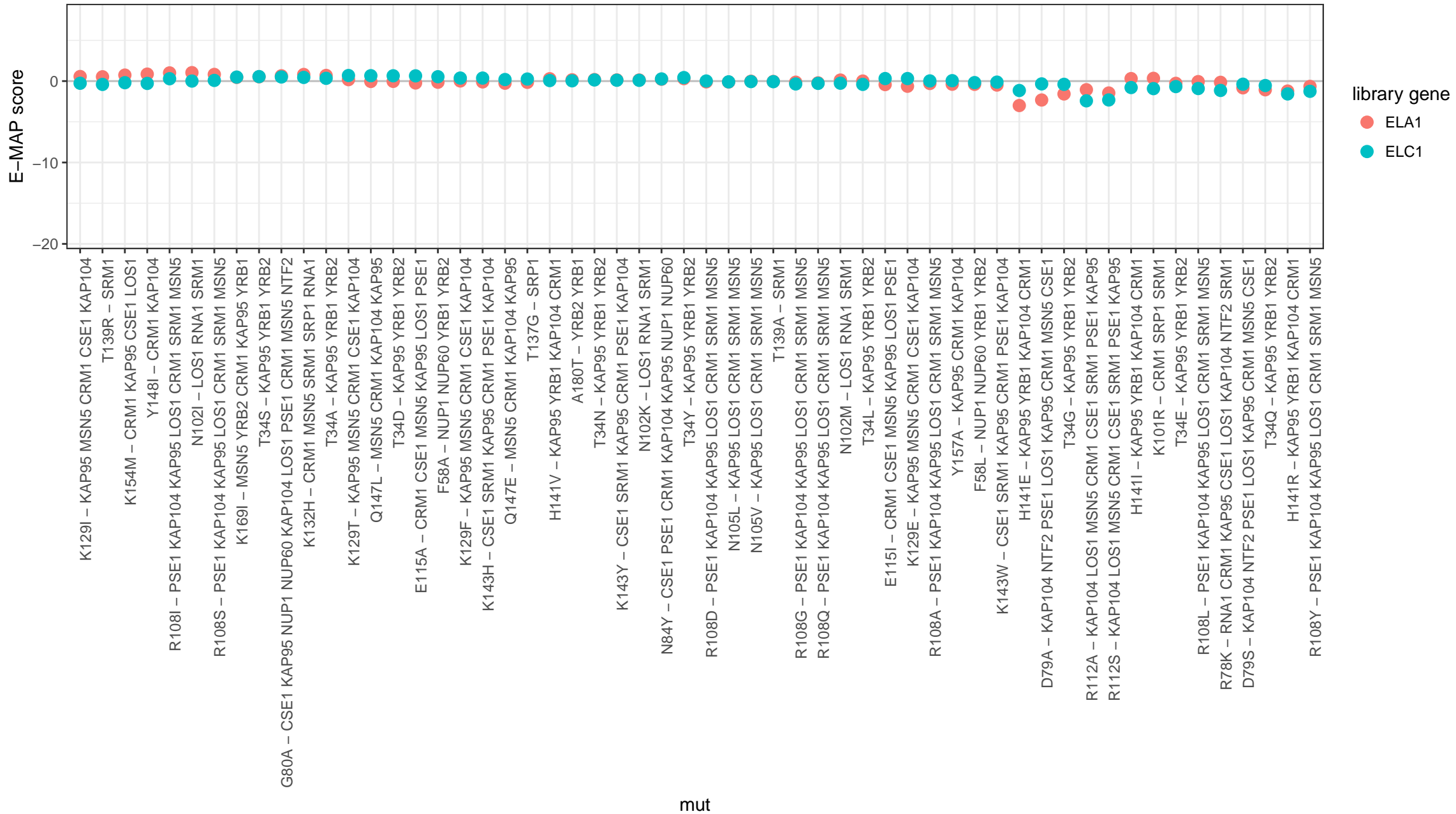
DNA-directed RNA polymerase I complex



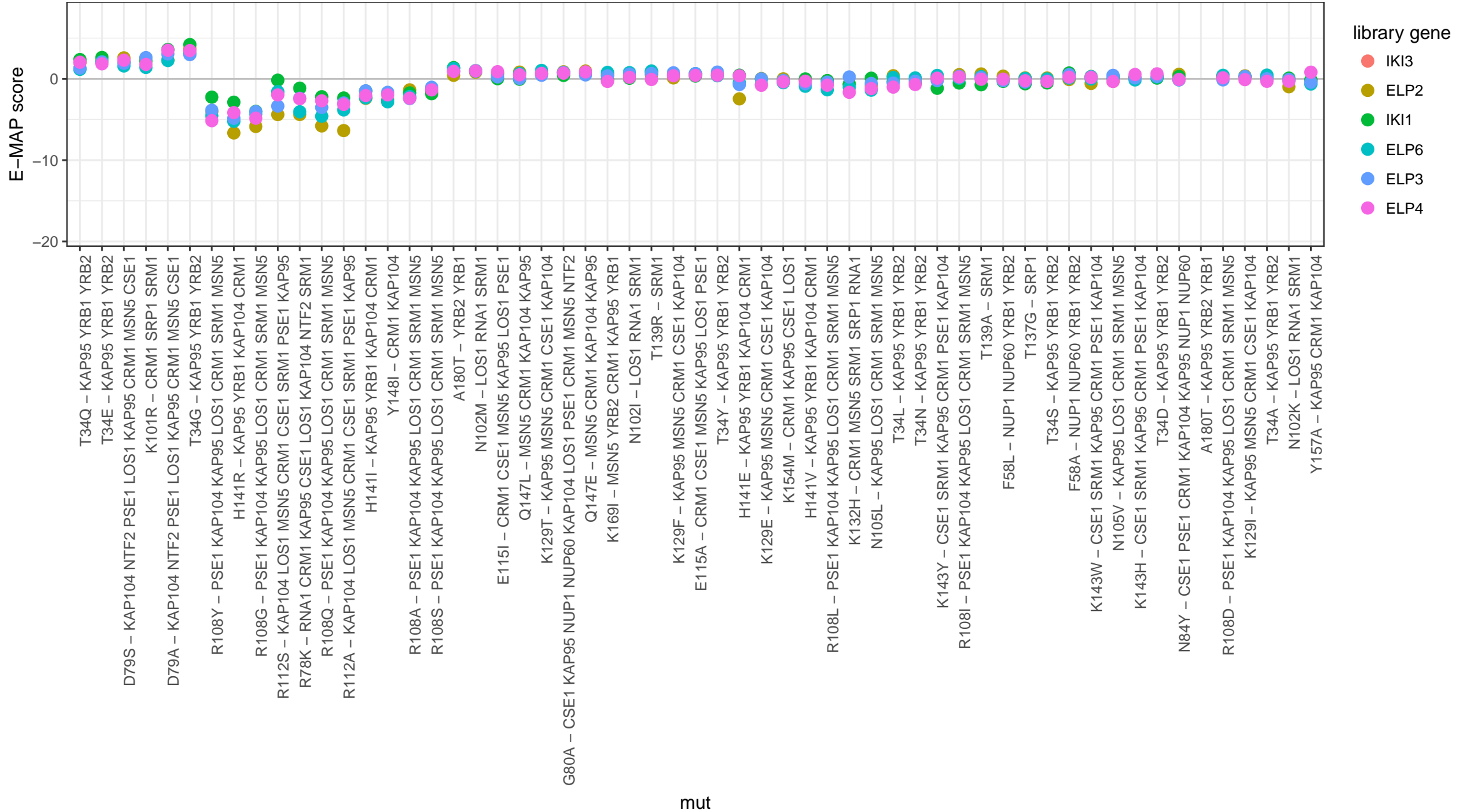
dynactin complex



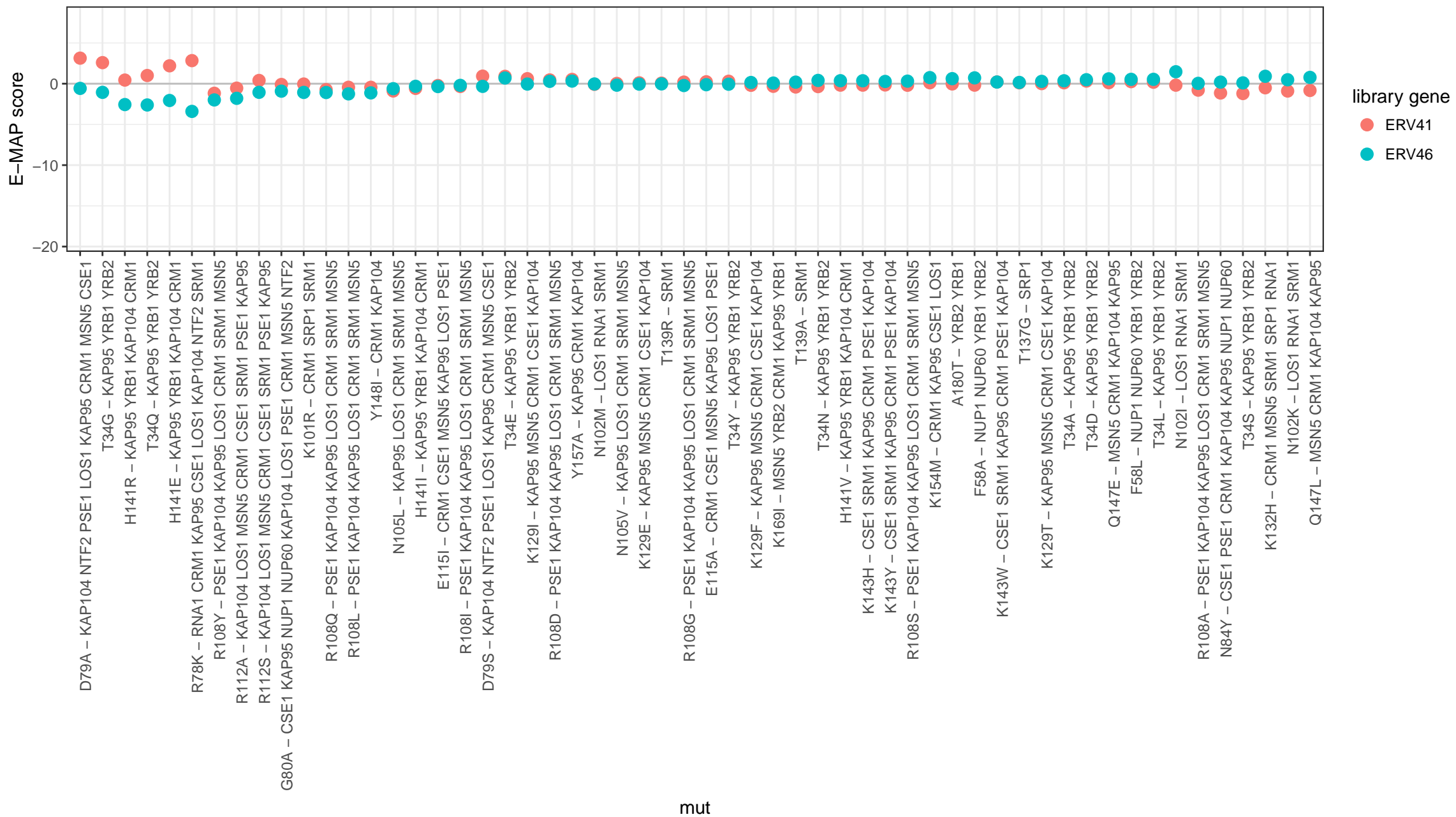
Elp1p/Elc1p complex



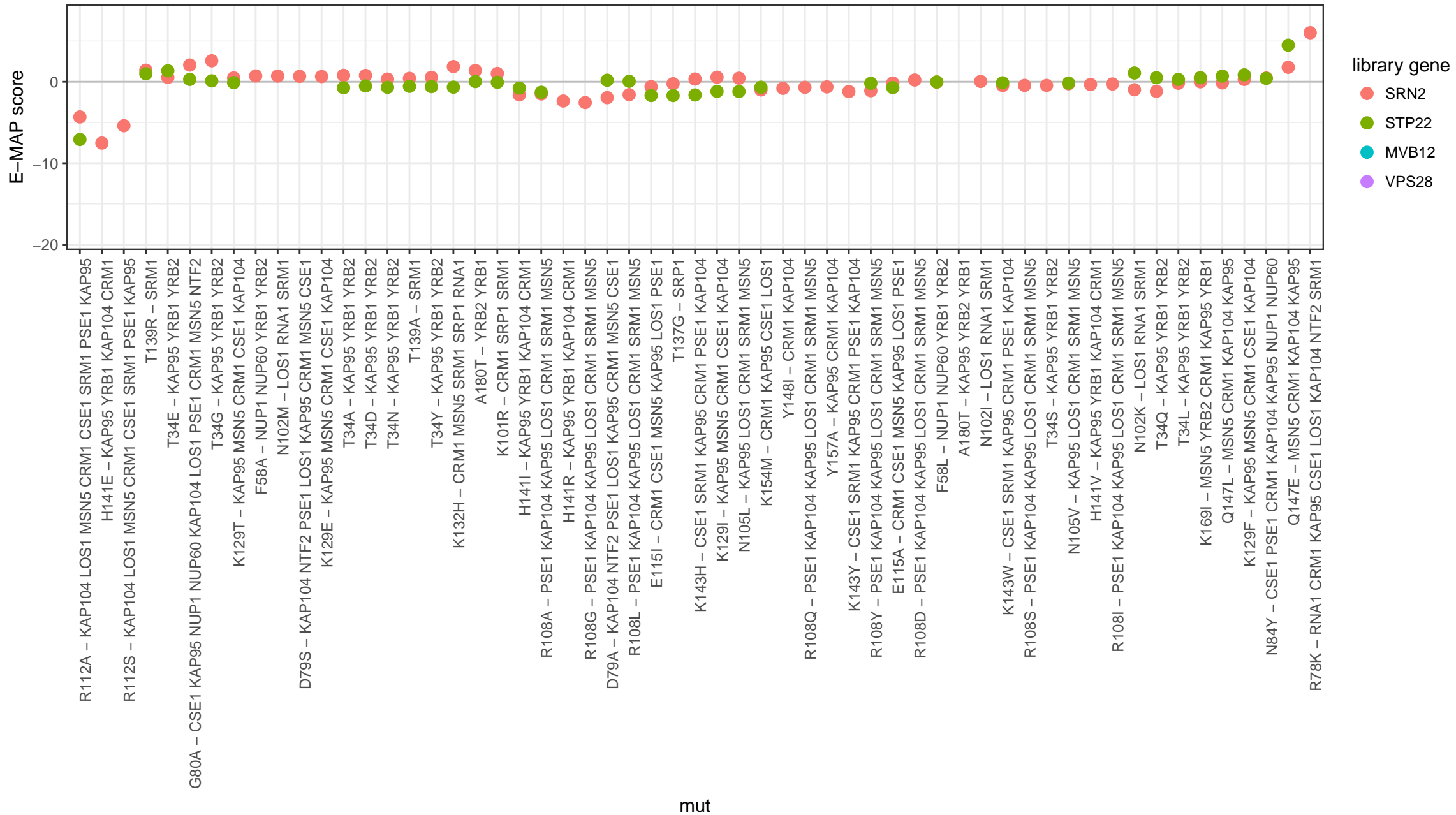
Elongator complex



Erv41p/Erv46p complex



ESCRT I complex



extracellular region

E-MAP score

-20

-10

0

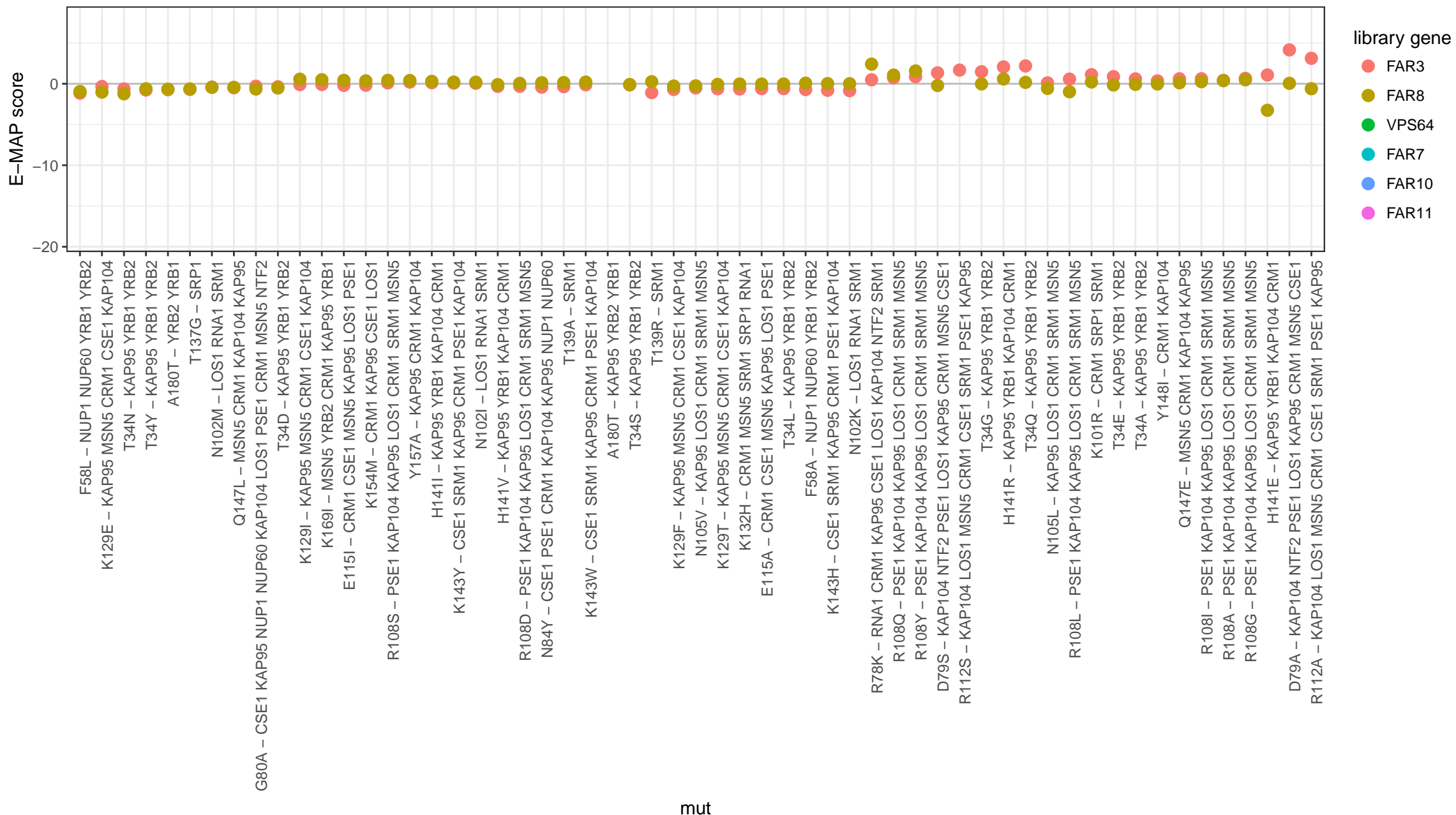
mut

D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T139A – SRM1
R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
A180T – YRB2 YRB1
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
Q147E – MSN5 CRM1 KAP104 KAP95
T34L – KAP95 YRB1 YRB2
F58A – NUP1 NUP60 YRB1 YRB2
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
N102M – LOS1 RNA1 SRM1
T34Y – KAP95 YRB1 YRB2
T139R – SRM1
T34S – KAP95 YRB1 YRB2
H141V – KAP95 YRB1 KAP104 CRM1
Y148I – CRM1 KAP104
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
H141I – KAP95 YRB1 KAP104 CRM1
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
N102I – LOS1 RNA1 SRM1
Q147L – MSN5 CRM1 KAP104 KAP95
T34D – KAP95 YRB1 YRB2
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
T137G – SRP1
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
Y157A – KAP95 CRM1 KAP104
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
T34A – KAP95 YRB1 YRB2
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
K154M – CRM1 KAP95 CSE1 LOS1
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
N102K – LOS1 RNA1 SRM1
H141E – KAP95 YRB1 KAP104 CRM1
T34N – KAP95 YRB1 YRB2
F58L – NUP1 NUP60 YRB1 YRB2
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
H141R – KAP95 YRB1 KAP104 CRM1
T34G – KAP95 YRB1 YRB2
T34Q – KAP95 YRB1 YRB2
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
K101R – CRM1 SRP1 SRM1
T34E – KAP95 YRB1 YRB2

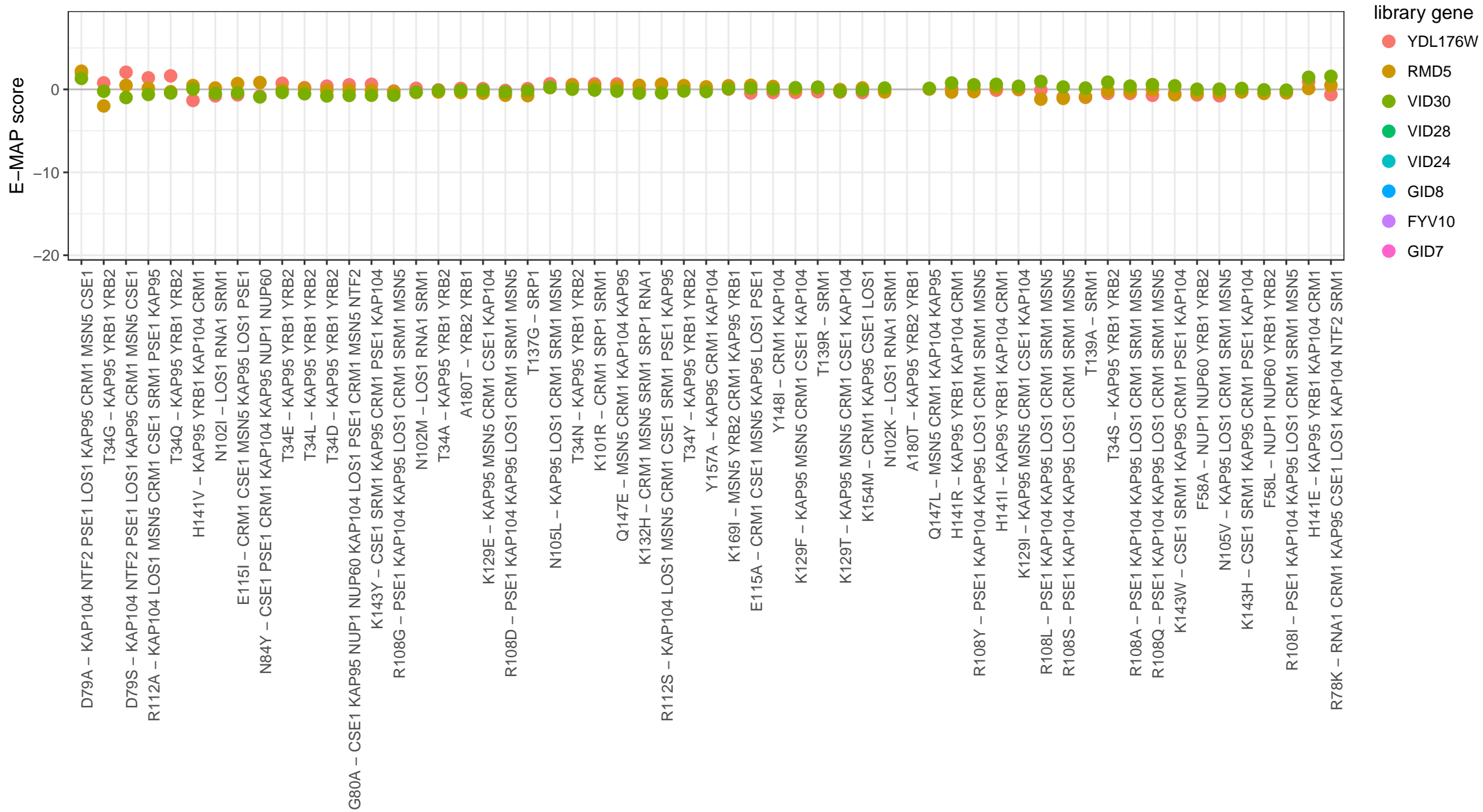
library gene

- ACB1
- PLB3

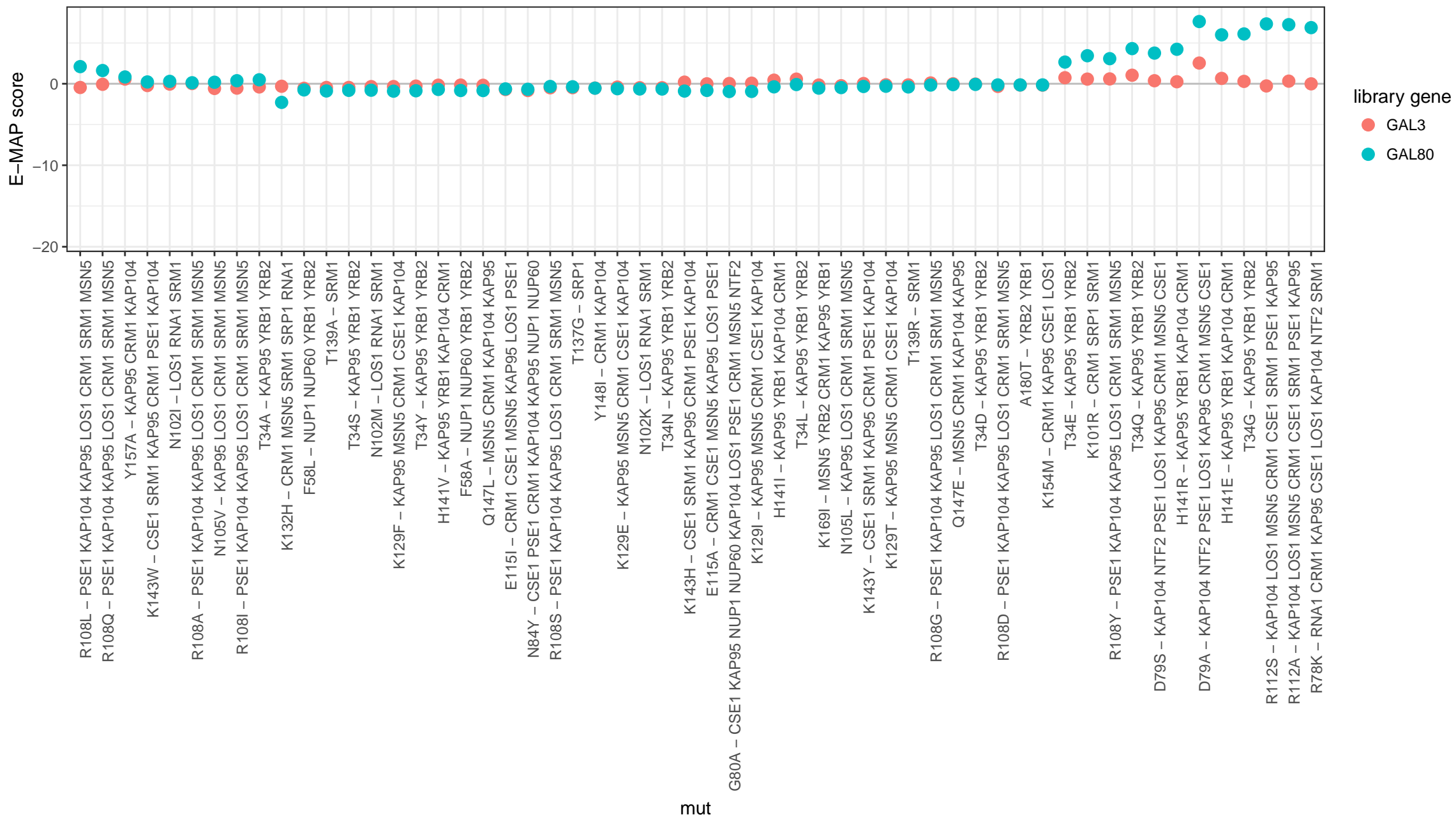
Far3p/Far7p/Far8p/Far9p/Far10p/Far11p complex



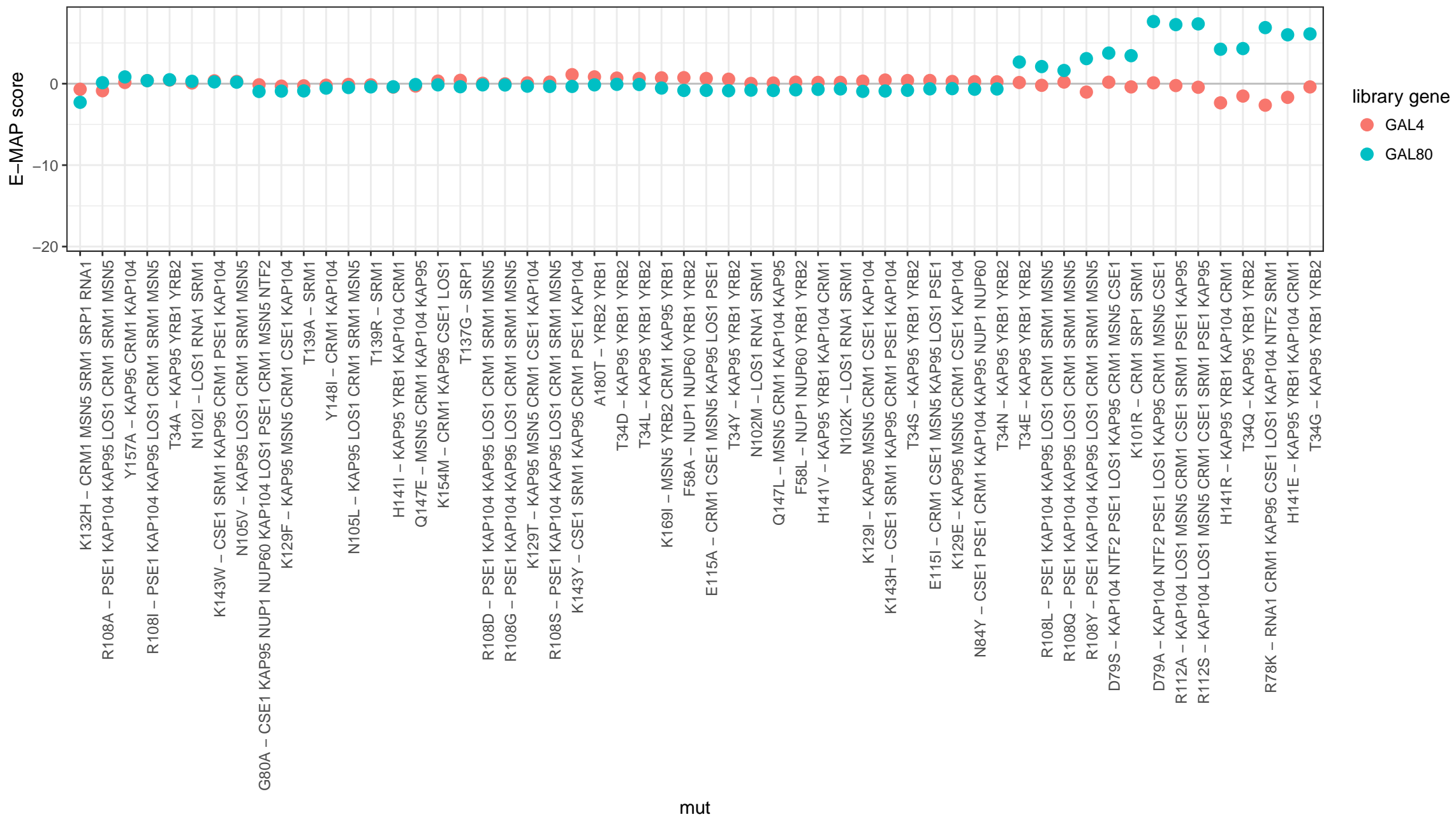
FBP degradation complex



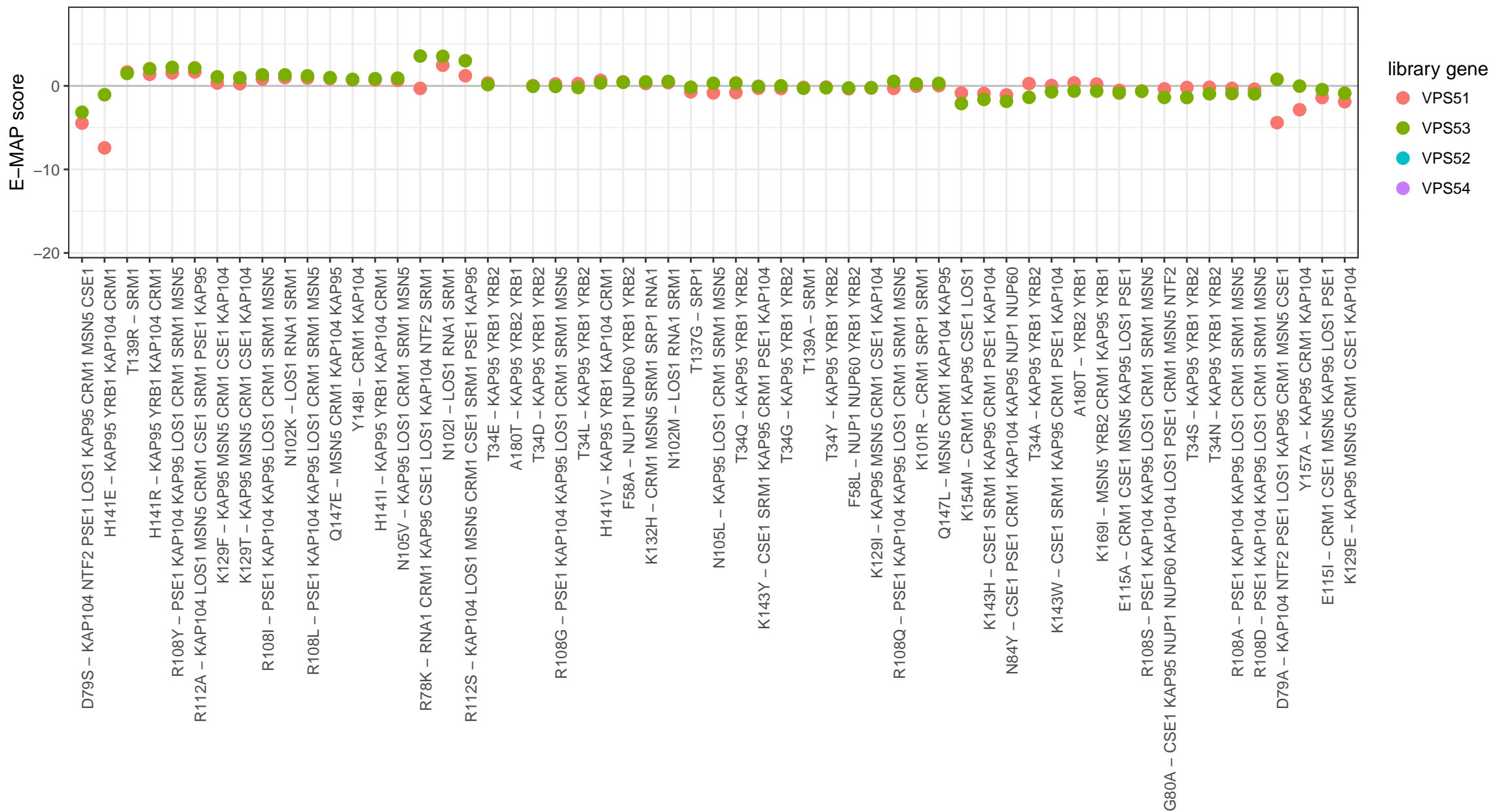
GAL3p/GAL80p complex



GAL4p/GAL80p complex



GARP complex



Gcn1p/Gcn20p complex

E-MAP score

mut

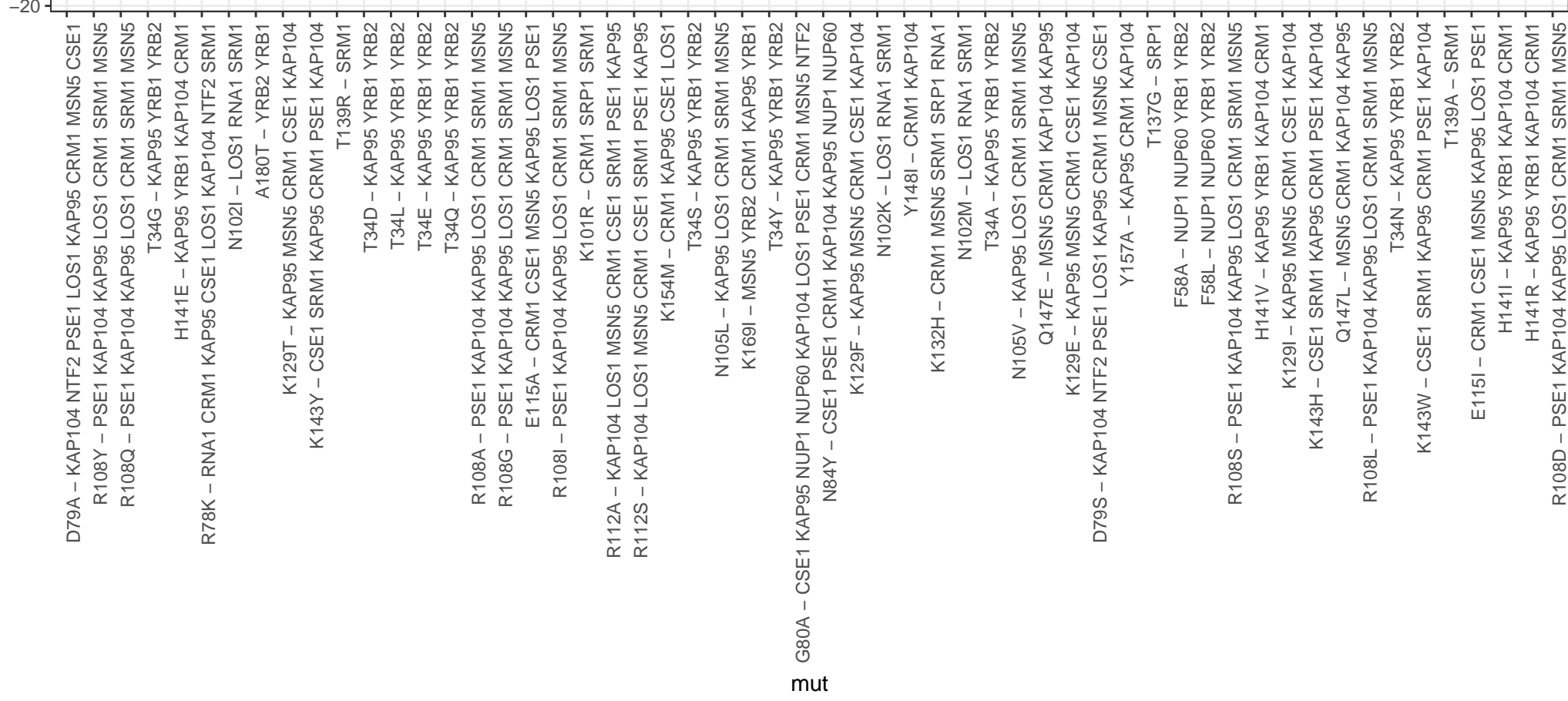
library gene

GCN1
GCN20

R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
N102K – LOS1 RNA1 SRM1
T139A – SRM1
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
F58A – NUP1 NUP60 YRB1 YRB2
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
Y148I – CRM1 KAP104
Y157A – KAP95 CRM1 KAP104
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
T34D – KAP95 YRB1 YRB2
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
N102I – LOS1 RNA1 SRM1
K154M – CRM1 KAP95 CSE1 LOS1
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
T34N – KAP95 YRB1 YRB2
F58L – NUP1 NUP60 YRB1 YRB2
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
T34L – KAP95 YRB1 YRB2
T34Y – KAP95 YRB1 YRB2
A180T – YRB2 YRB1
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
T137G – SRP1
N102M – LOS1 RNA1 SRM1
T139R – SRM1
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
H141R – KAP95 YRB1 KAP104 CRM1
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
T34S – KAP95 YRB1 YRB2
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
T34A – KAP95 YRB1 YRB2
Q147E – MSN5 CRM1 KAP104 KAP95
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
H141I – KAP95 YRB1 KAP104 CRM1
H141V – KAP95 YRB1 KAP104 CRM1
Q147L – MSN5 CRM1 KAP104 KAP95
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
K101R – CRM1 SRP1 SRM1
T34E – KAP95 YRB1 YRB2
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
T34Q – KAP95 YRB1 YRB2
H141E – KAP95 YRB1 KAP104 CRM1
D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
T34G – KAP95 YRB1 YRB2

GET complex

E-MAP score



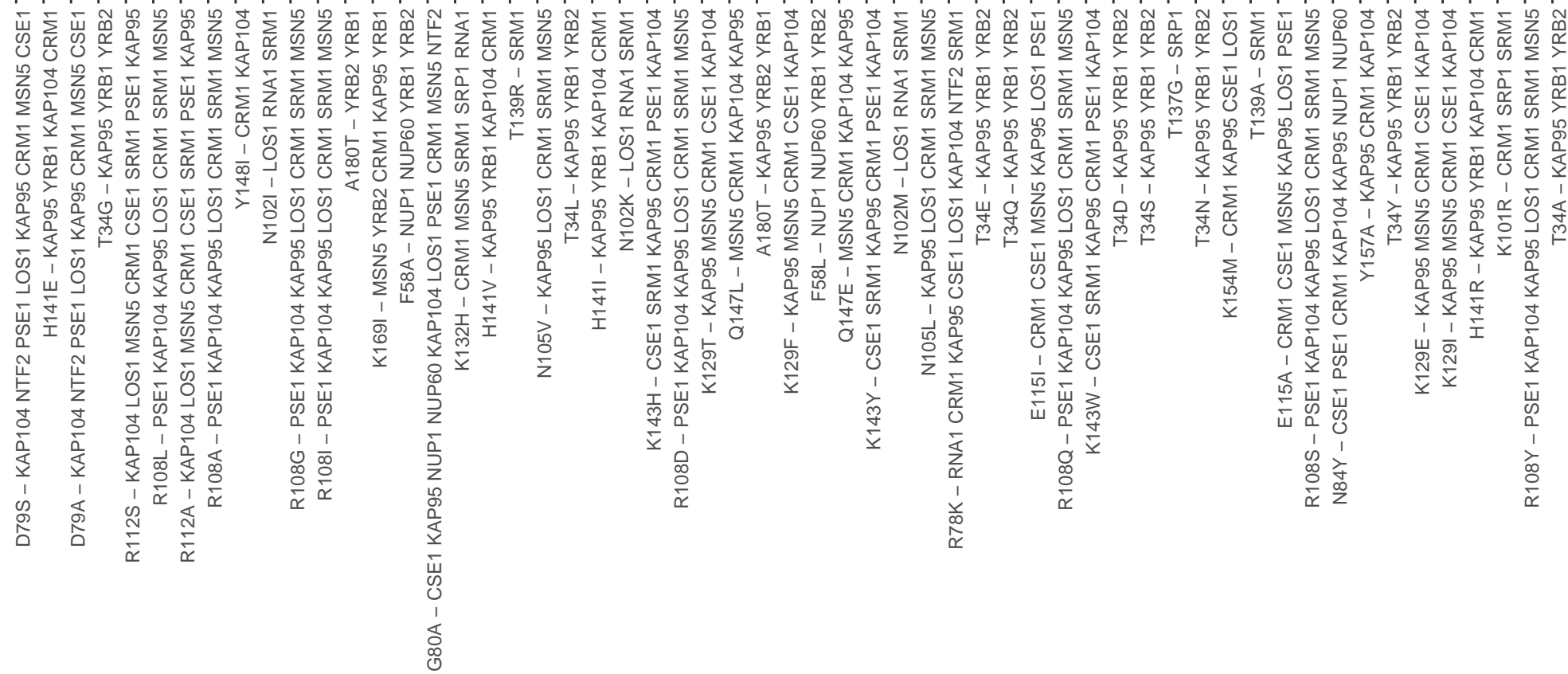
Golgi transport complex

E-MAP score

-20

-10

0

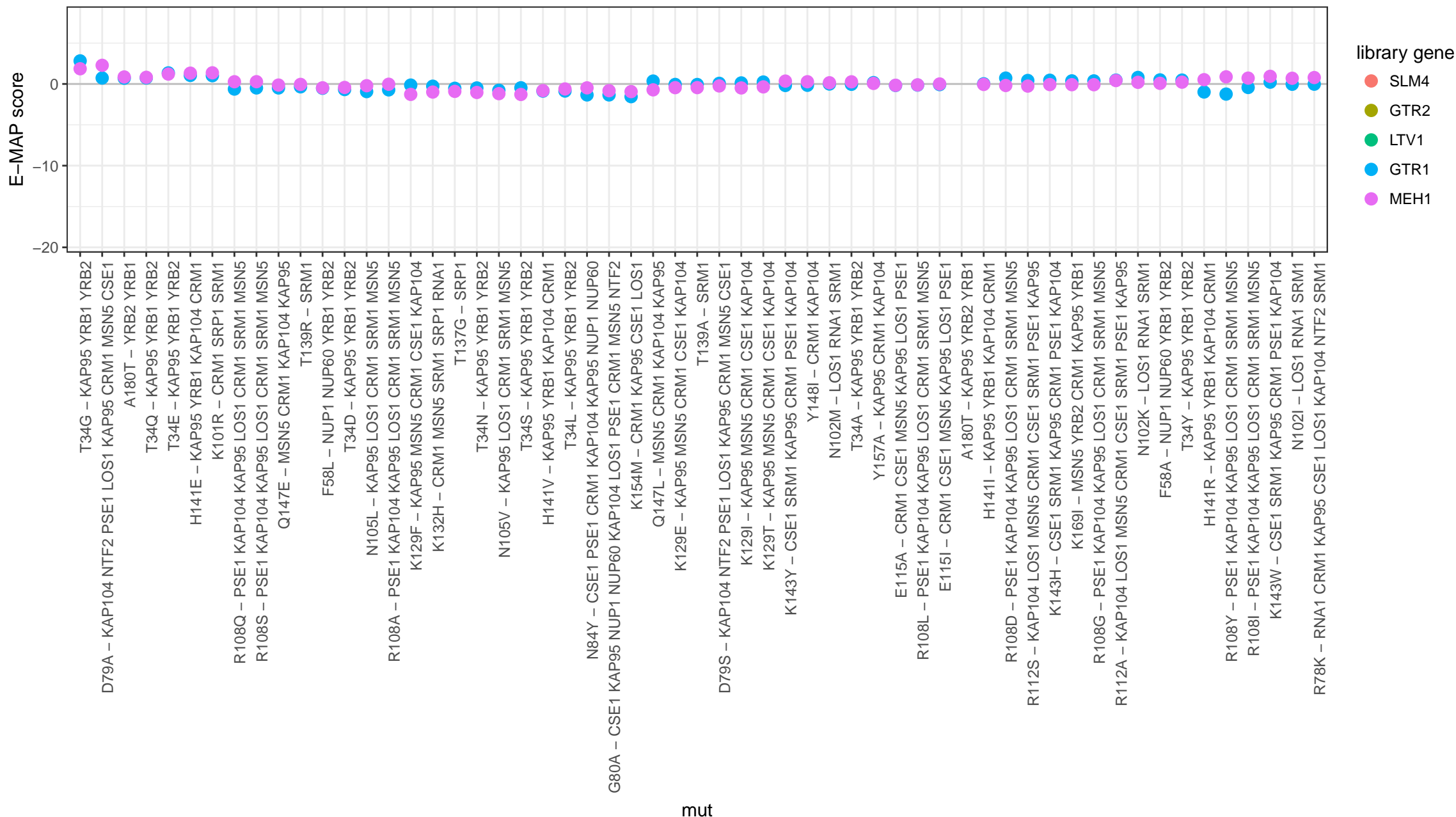


mut

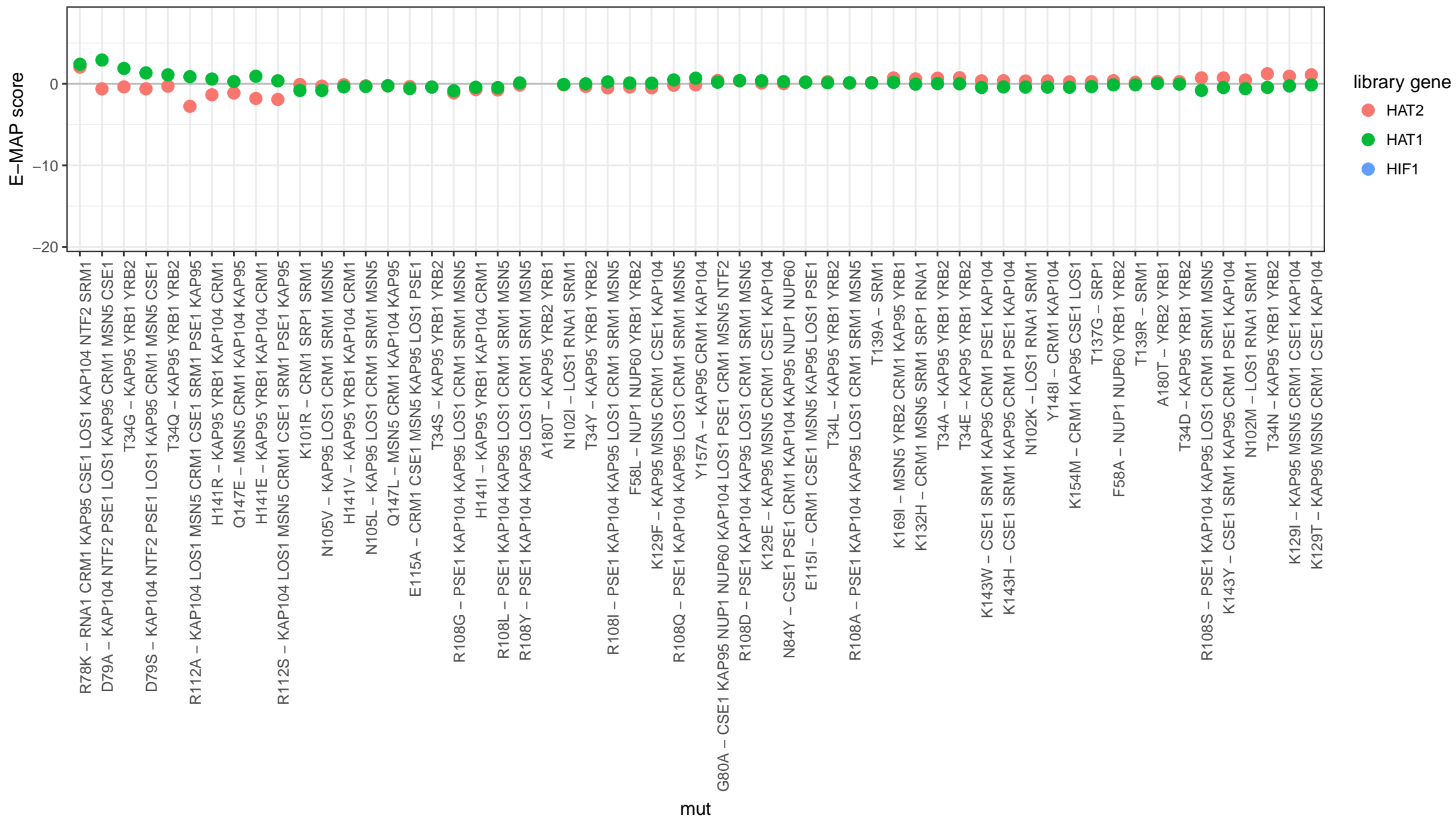
library gene

- COG4
- COG3
- COG1
- COG2
- COG6
- COG5
- COG7
- COG8

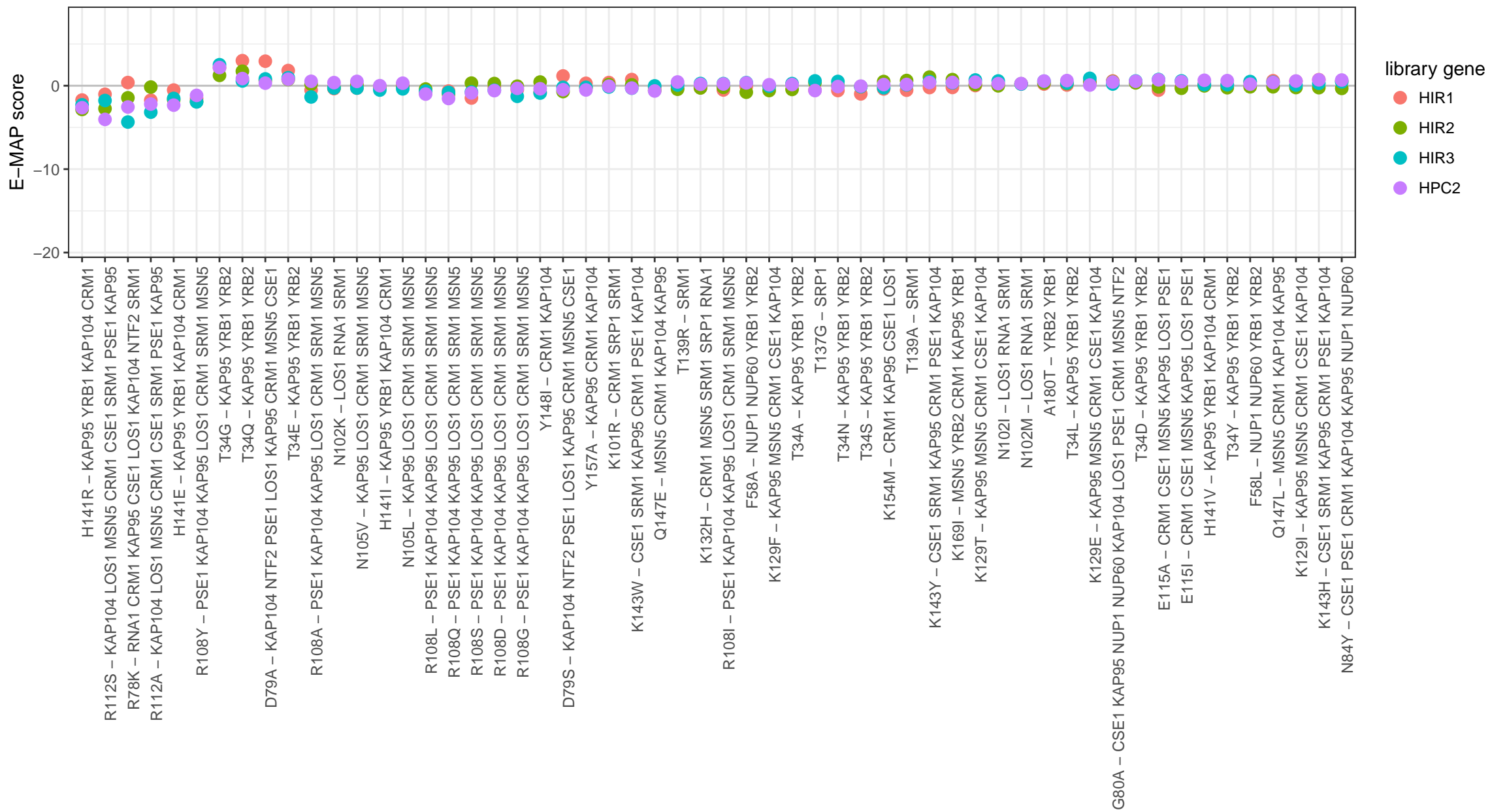
GSE Complex



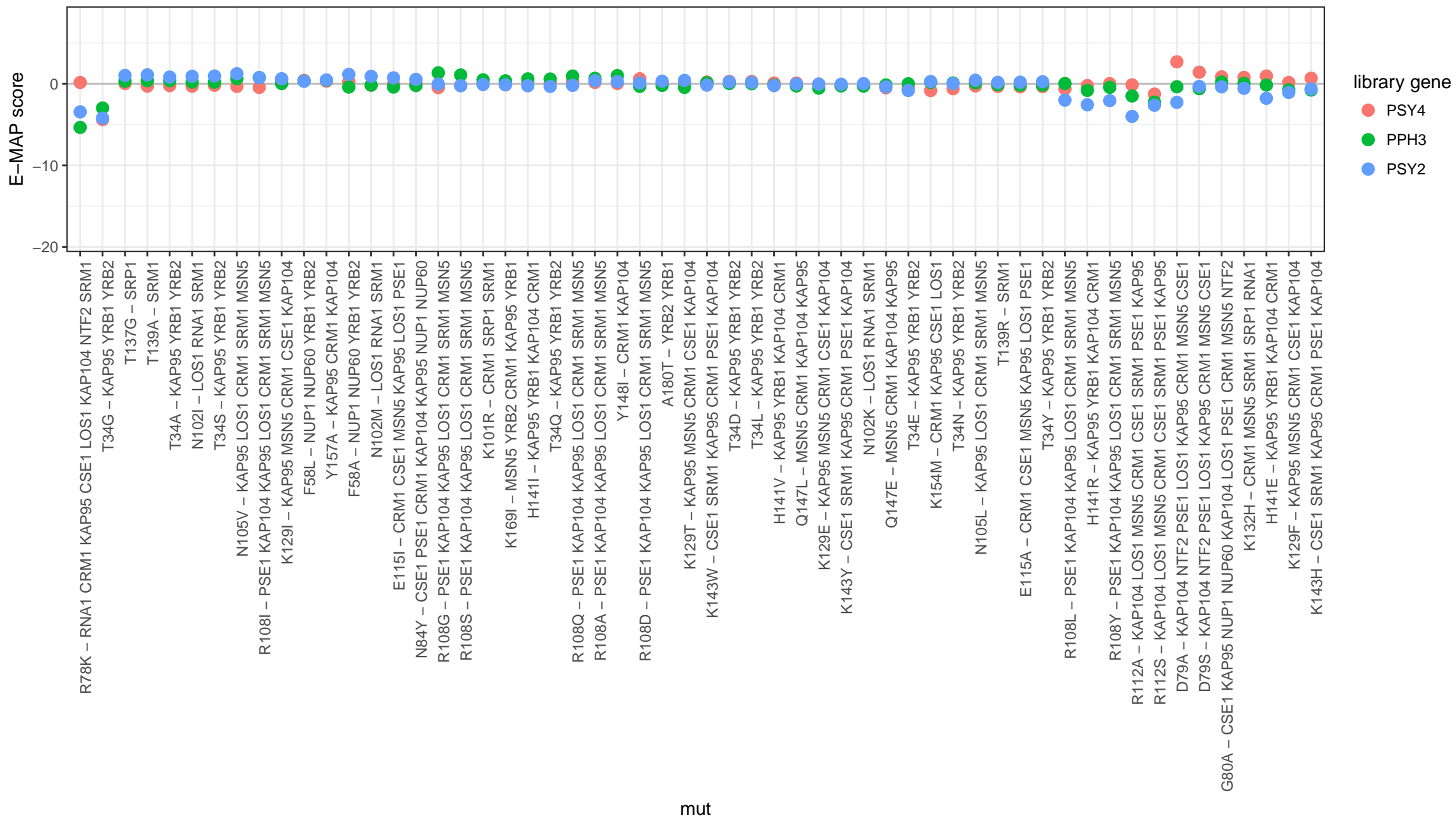
HAT-B complex



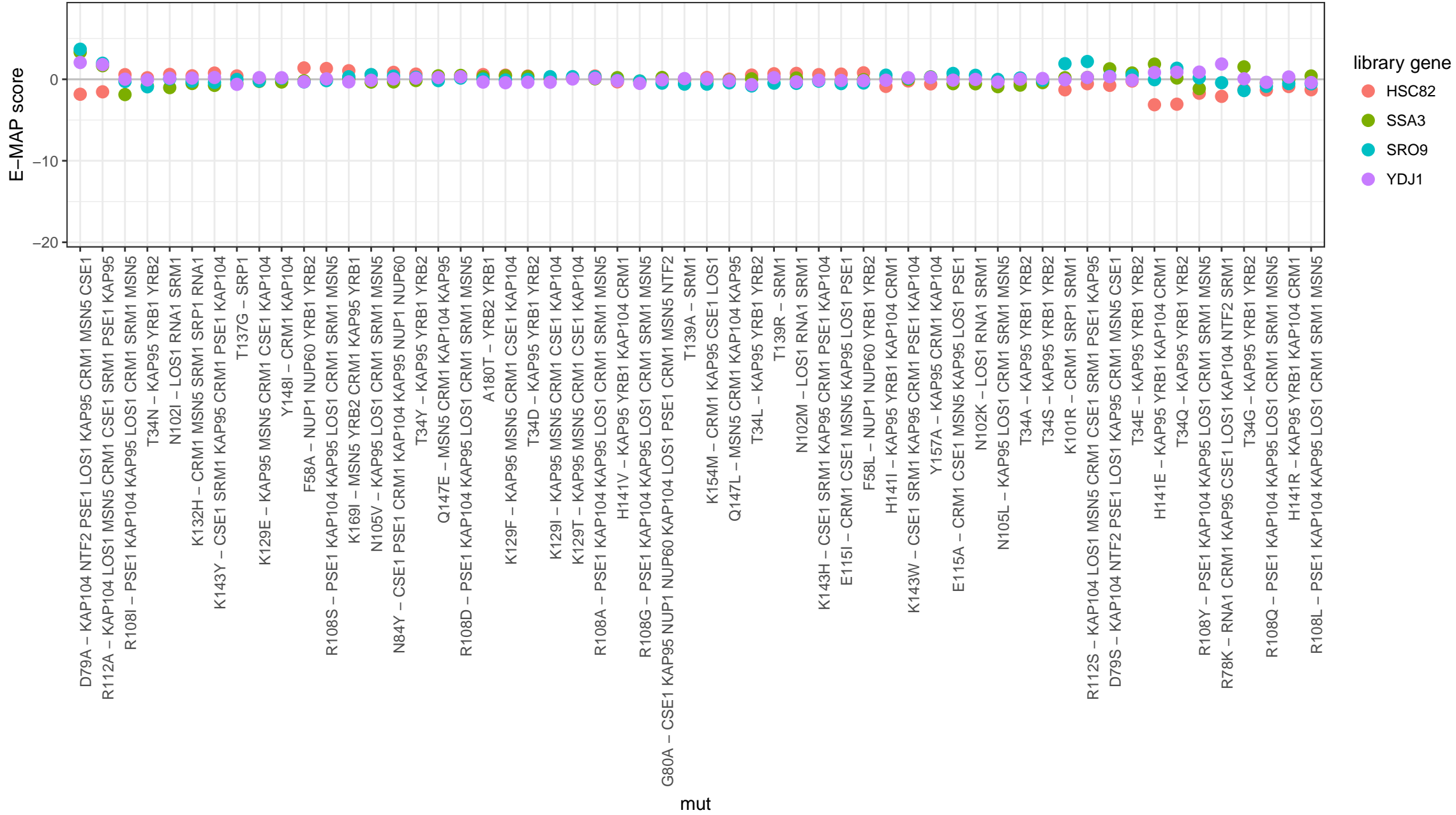
HIR complex



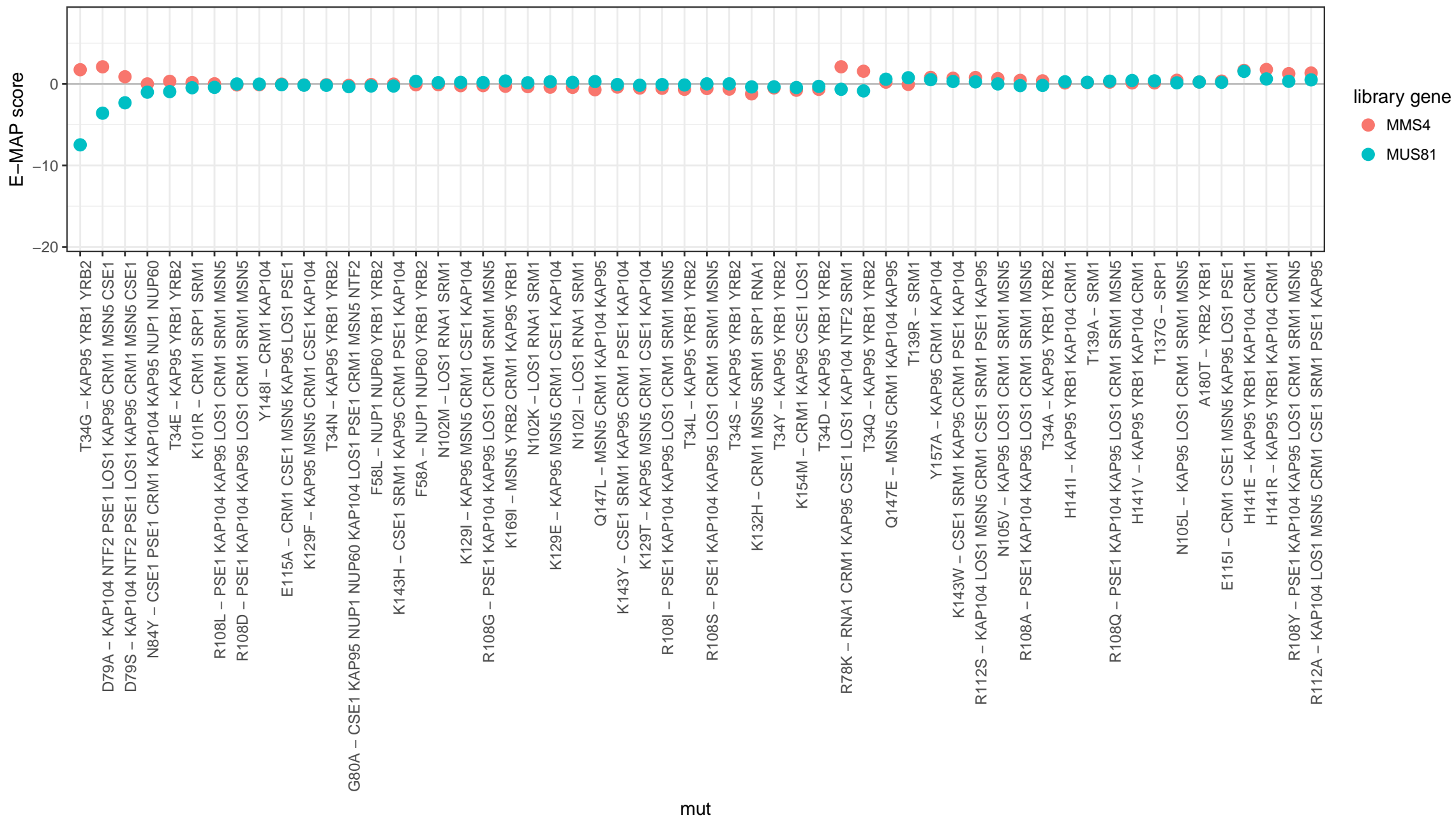
histone H2A phosphatase complex



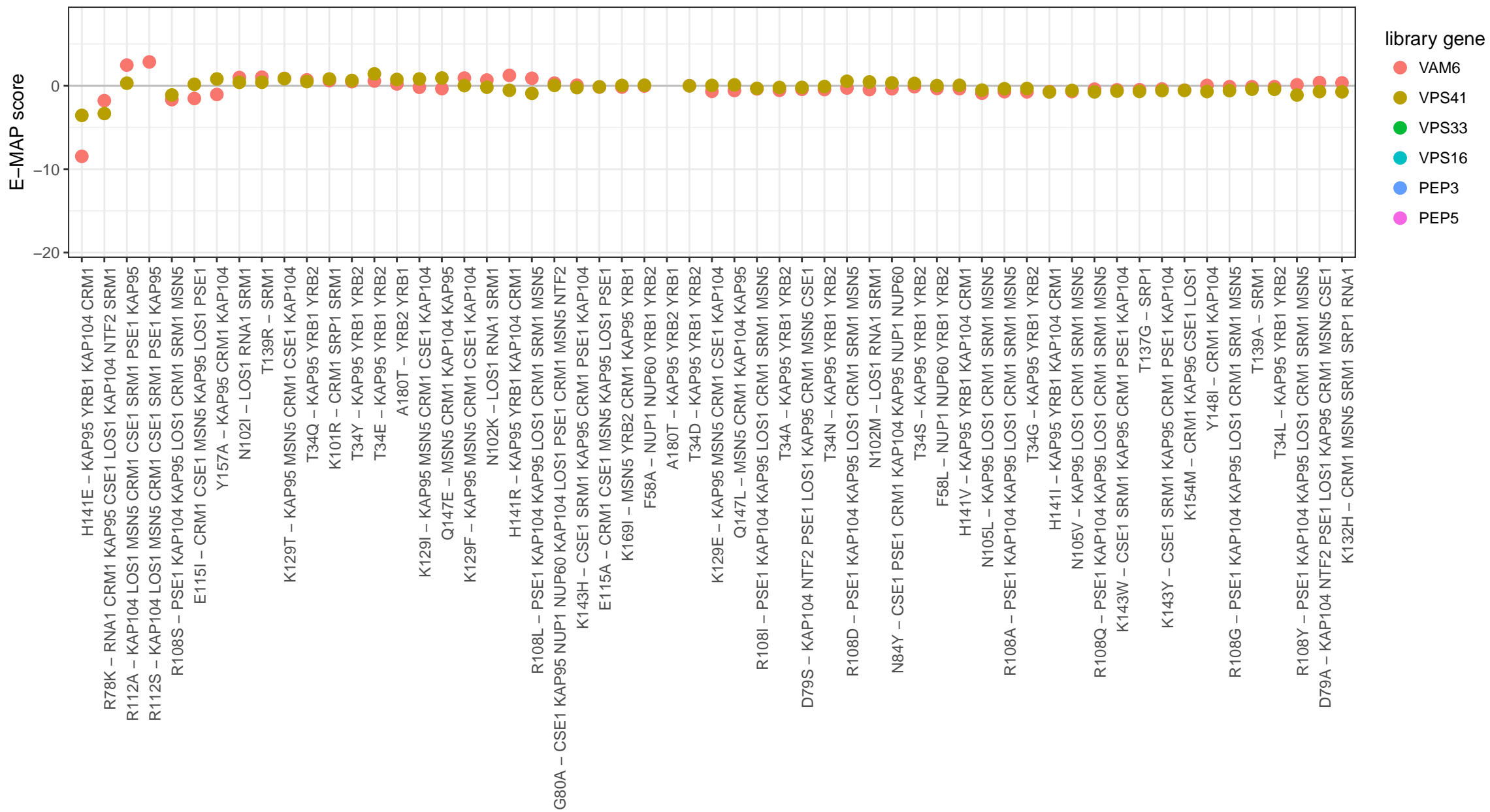
HMC Complex



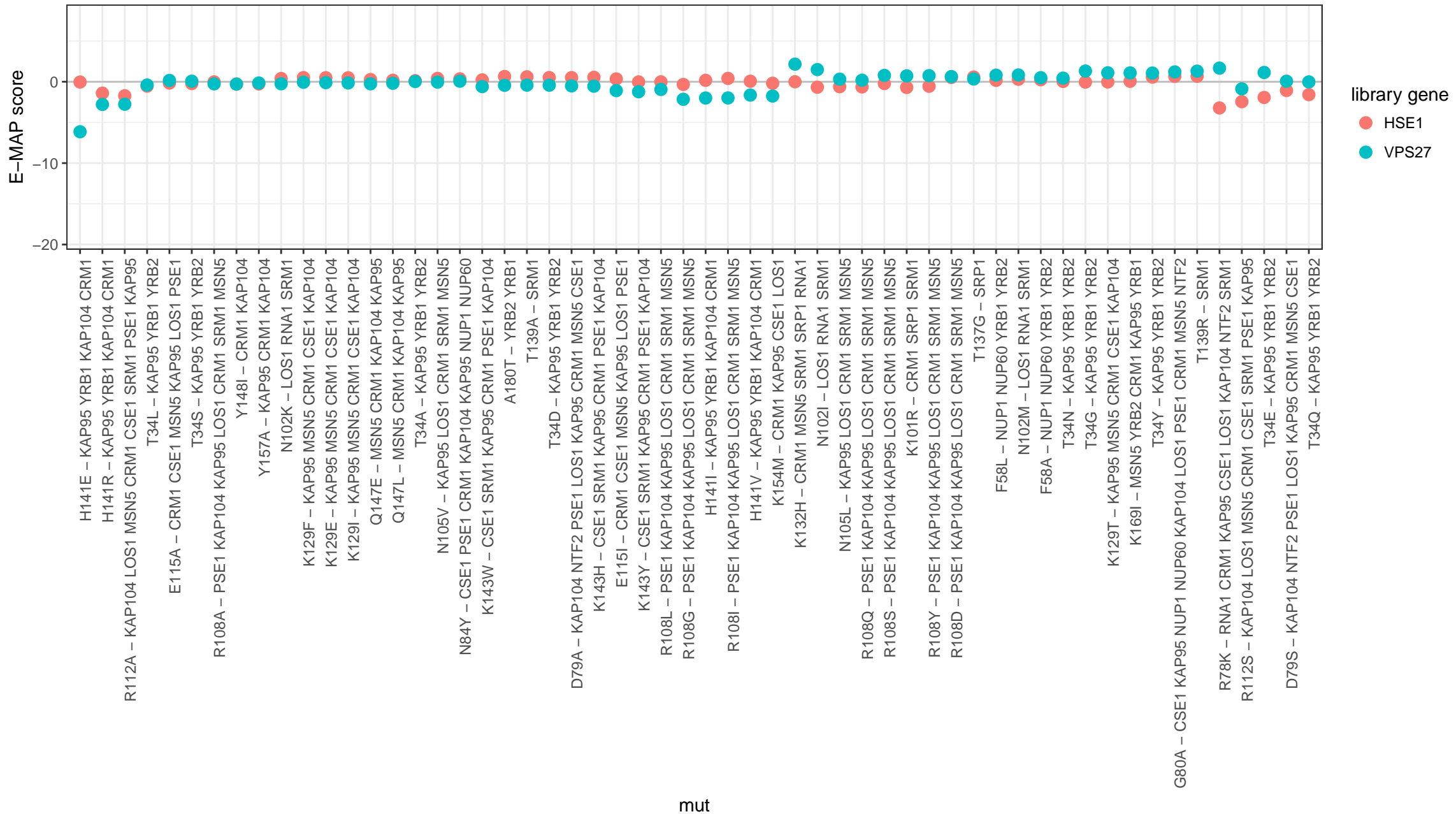
Holliday junction resolvase complex



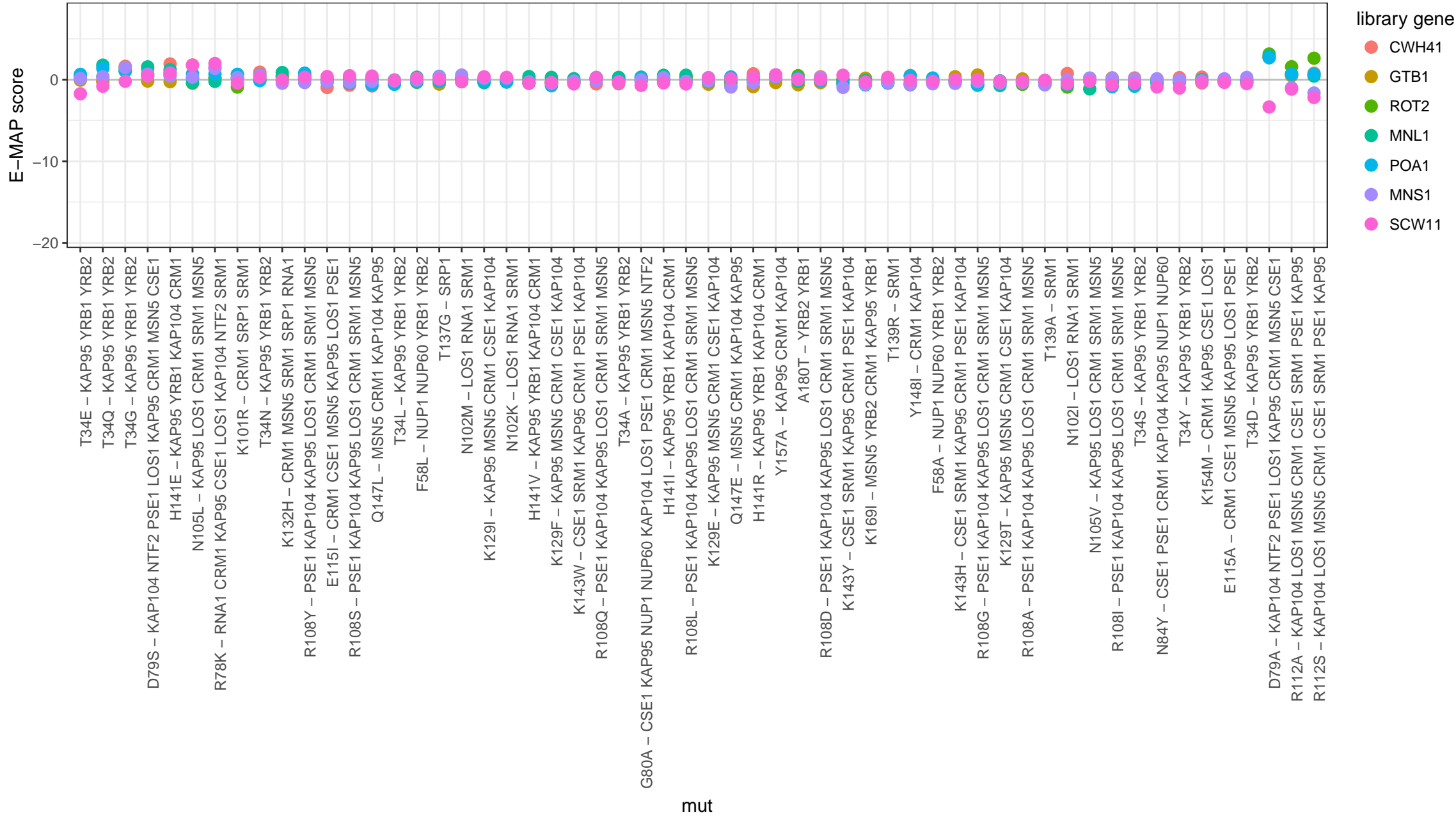
HOPS complex



Hse1p/Vps27p complex



hydrolase activity, acting on glycosyl bonds



Ino80p complex

E-MAP score

-20

-10

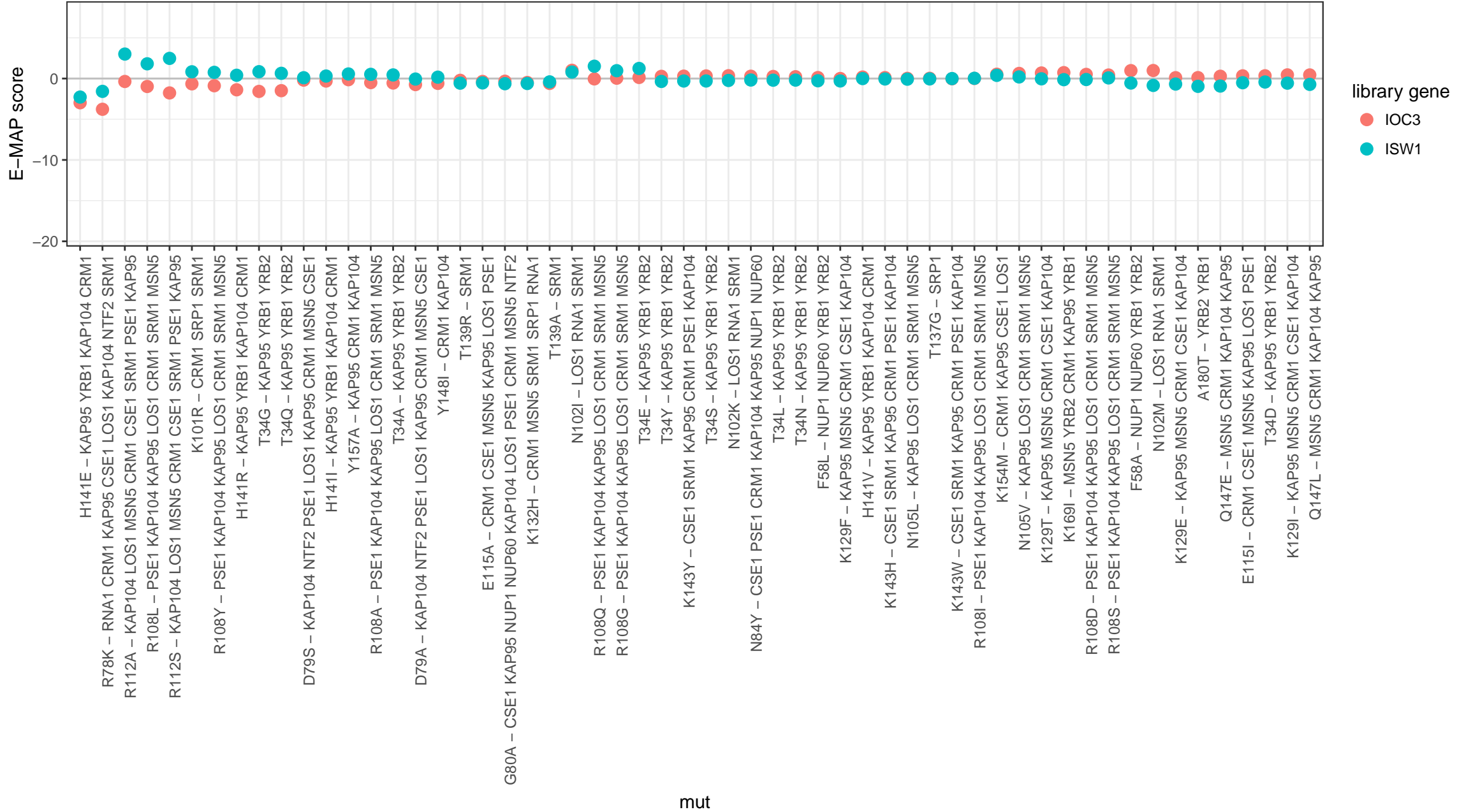
0

R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
Y148I – CRM1 KAP104
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
H141I – KAP95 YRB1 KAP104 CRM1
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
H141R – KAP95 YRB1 KAP104 CRM1
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
K101R – CRM1 SRP1 SRM1
T34G – KAP95 YRB1 YRB2
T34Q – KAP95 YRB1 YRB2
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
T34E – KAP95 YRB1 YRB2
H141E – KAP95 YRB1 KAP104 CRM1
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
H141V – KAP95 YRB1 KAP104 CRM1
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
Y157A – KAP95 CRM1 KAP104
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
N102I – LOS1 RNA1 SRM1
T34S – KAP95 YRB1 YRB2
K154M – CRM1 KAP95 CSE1 LOS1
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
N102M – LOS1 RNA1 SRM1
T139A – SRM1
F58L – NUP1 NUP60 YRB1 YRB2
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
T34N – KAP95 YRB1 YRB2
T34L – KAP95 YRB1 YRB2
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
T34Y – KAP95 YRB1 YRB2
T34A – KAP95 YRB1 YRB2
Q147L – MSN5 CRM1 KAP104 KAP95
A180T – KAP95 YRB2 YRB1
T137G – SRP1
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
T139R – SRM1
F58A – NUP1 NUP60 YRB1 YRB2
R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
Q147E – MSN5 CRM1 KAP104 KAP95
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
T34D – KAP95 YRB1 YRB2
N102K – LOS1 RNA1 SRM1
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
A180T – YRB2 YRB1
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
K129T – KAP95 MSN5 CRM1 CSE1 KAP104

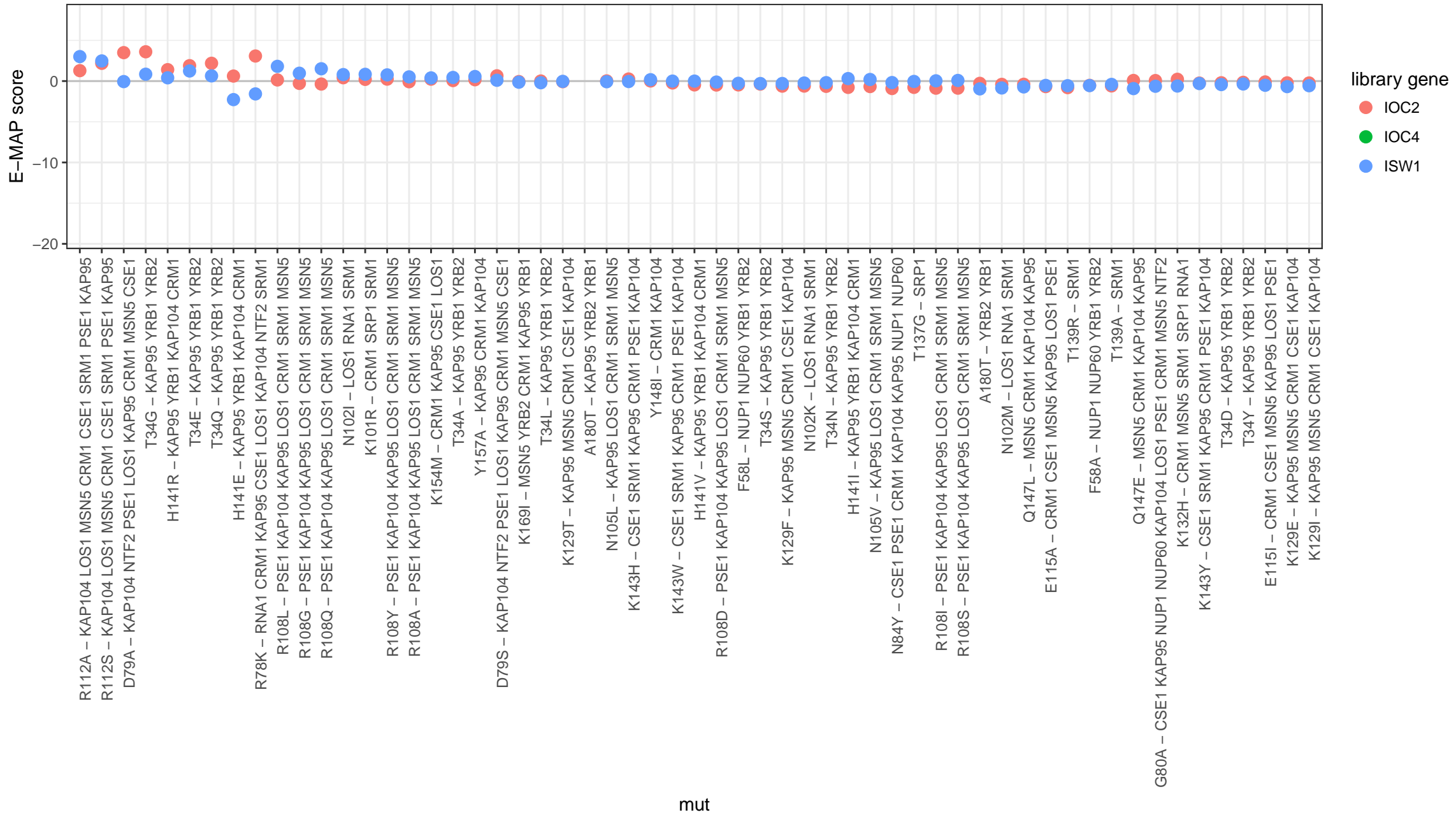
mut

- IES4
- TAF14
- RVB2
- RVB1
- INO80
- IES3
- ARP8
- ARP5
- ACT1
- ARP4
- IES1
- NHP10

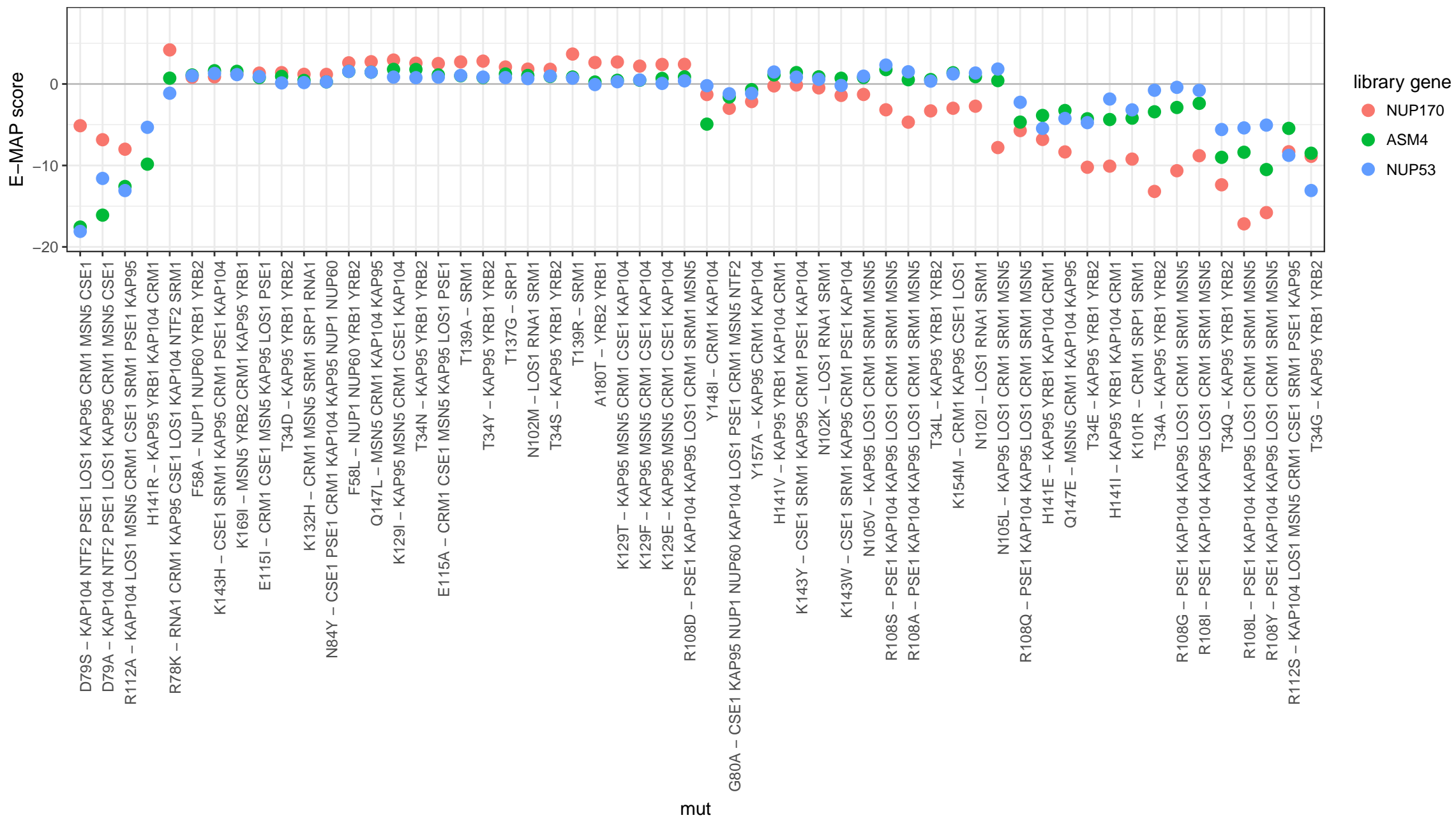
ISW1a complex



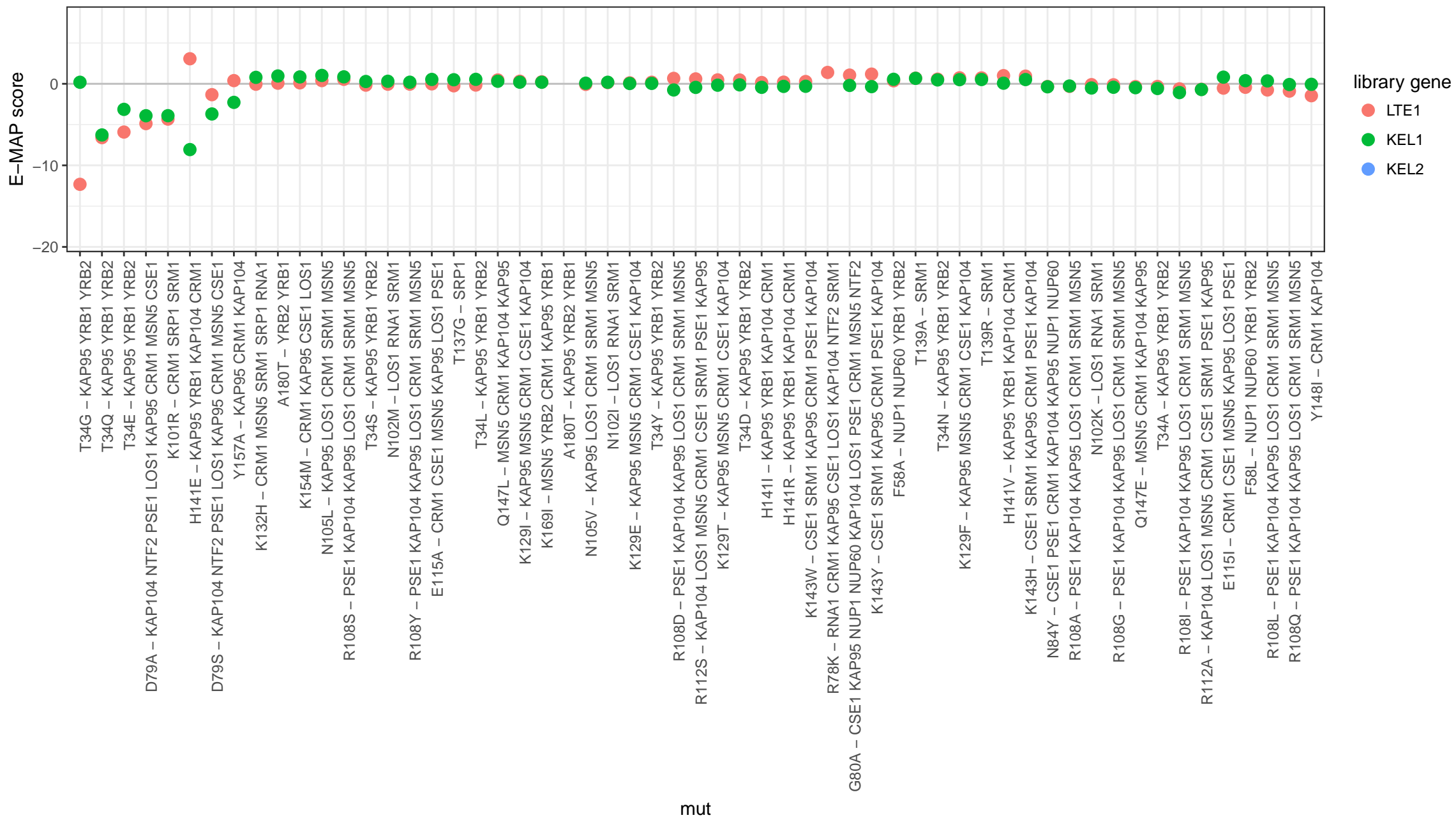
ISW1b complex



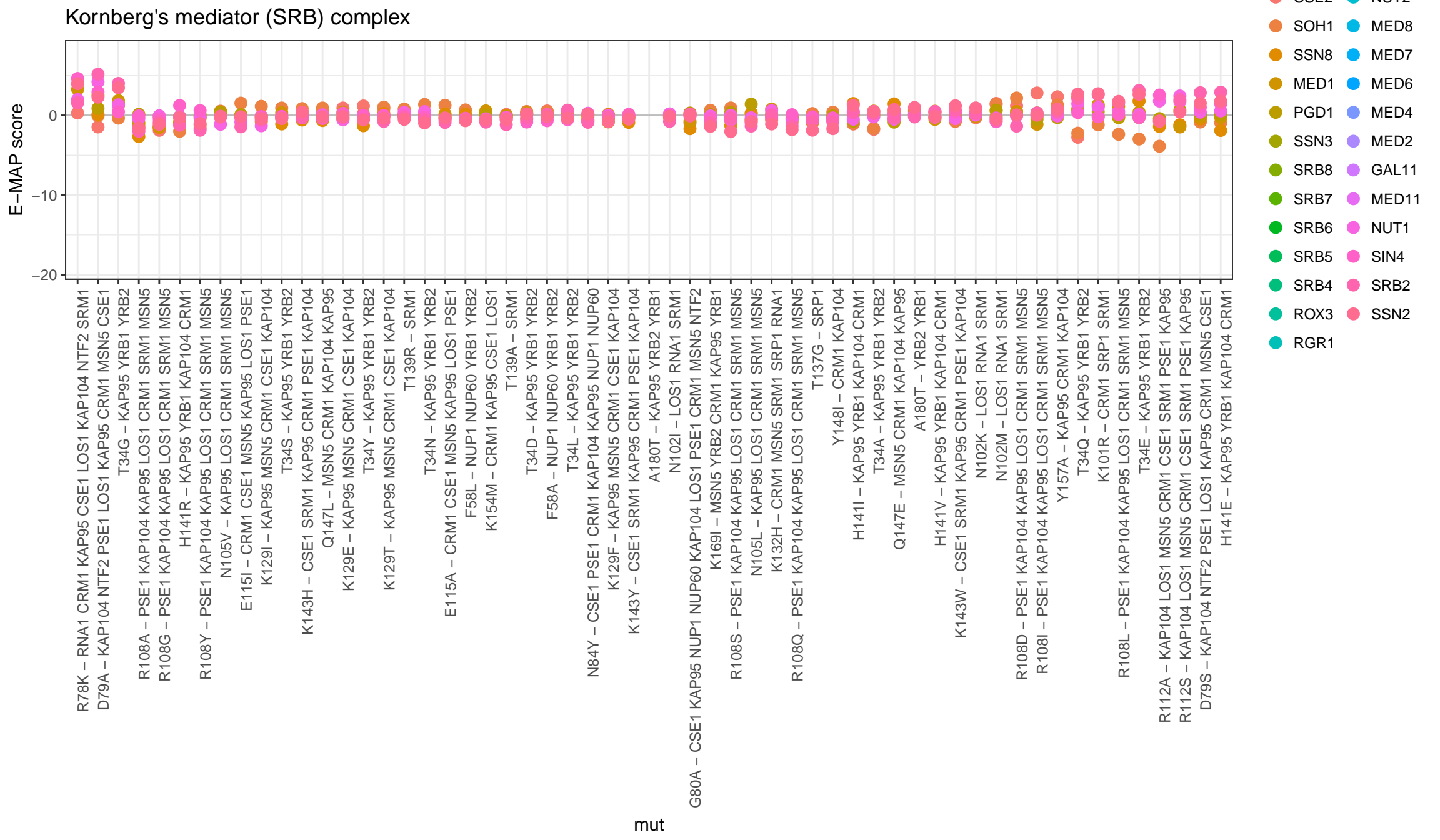
karyopherin docking subcomplex of the Nuclear Pore Complex (NPC)



Kel1p/Kel2p/Lte1p complex



Kornberg's mediator (SRB) complex



Ku complex

E-MAP score

-20

-10

0

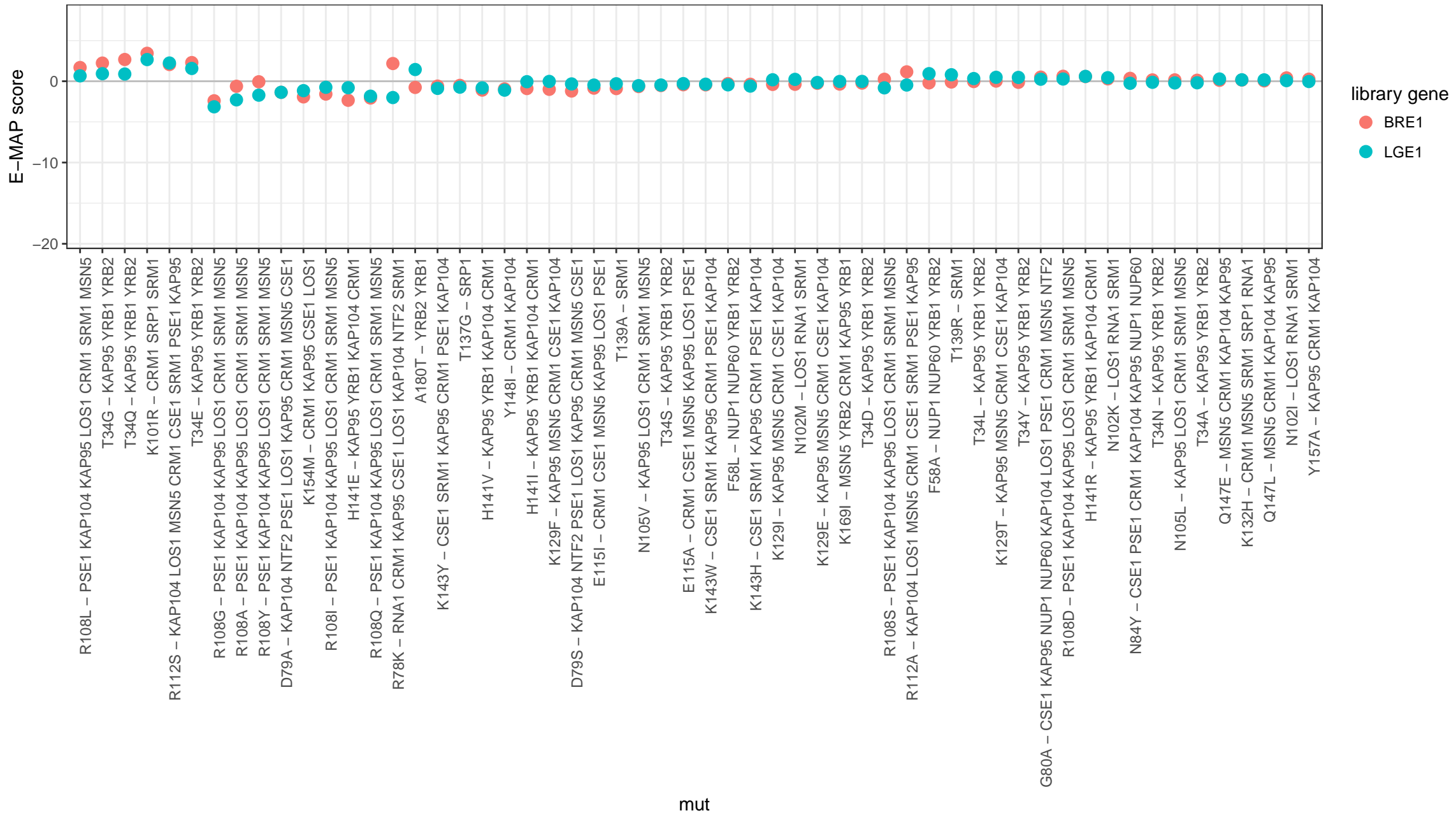
mut

R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
H141R – KAP95 YRB1 KAP104 CRM1
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
T34G – KAP95 YRB1 YRB2
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34Q – KAP95 YRB1 YRB2
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
H141E – KAP95 YRB1 KAP104 CRM1
Q147E – MSN5 CRM1 KAP104 KAP95
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
Q147L – MSN5 CRM1 KAP104 KAP95
K154M – CRM1 KAP95 CSE1 LOS1
T34E – KAP95 YRB1 YRB2
T34N – KAP95 YRB1 YRB2
N102I – LOS1 RNA1 SRM1
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
T34D – KAP95 YRB1 YRB2
T34A – KAP95 YRB1 YRB2
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34L – KAP95 YRB1 YRB2
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
H141V – KAP95 YRB1 KAP104 CRM1
N102K – LOS1 RNA1 SRM1
K101R – CRM1 SRP1 SRM1
F58L – NUP1 NUP60 YRB1 YRB2
N102M – LOS1 RNA1 SRM1
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
T34Y – KAP95 YRB1 YRB2
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
Y157A – KAP95 CRM1 KAP104
Y148I – CRM1 KAP104
A180T – YRB2 YRB1
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
T34S – KAP95 YRB1 YRB2
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
T139R – SRM1
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T137G – SRP1
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
H141I – KAP95 YRB1 KAP104 CRM1
T139A – SRM1
F58A – NUP1 NUP60 YRB1 YRB2
K129E – KAP95 MSN5 CRM1 CSE1 KAP104

library gene

YKU70
YKU80

Lge1p/Bre1p complex



ligase activity

E-MAP score

-20

-10

0

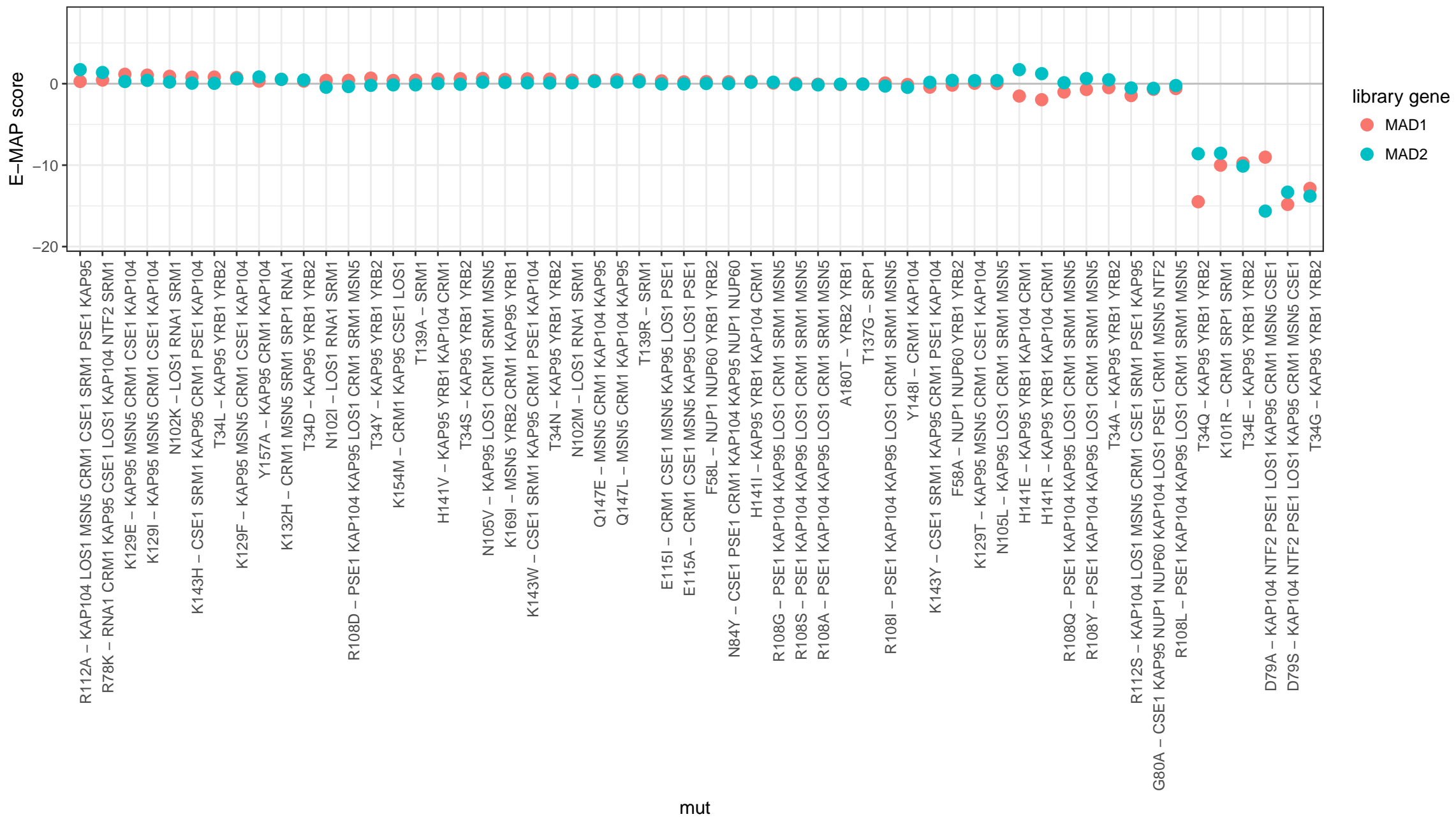
D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
H141E – KAP95 YRB1 KAP104 CRM1
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
A180T – YRB2 YRB1
T139R – SRM1
Q147E – MSN5 CRM1 KAP104 KAP95
K154M – CRM1 KAP95 CSE1 LOS1
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
N102I – LOS1 RNA1 SRM1
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
T34S – KAP95 YRB1 YRB2
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
T34L – KAP95 YRB1 YRB2
F58A – NUP1 NUP60 YRB1 YRB2
T139A – SRM1
H141V – KAP95 YRB1 KAP104 CRM1
N102K – LOS1 RNA1 SRM1
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
T34D – KAP95 YRB1 YRB2
F58L – NUP1 NUP60 YRB1 YRB2
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
T137G – SRP1
T34N – KAP95 YRB1 YRB2
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
T34Y – KAP95 YRB1 YRB2
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
N102M – LOS1 RNA1 SRM1
Q147L – MSN5 CRM1 KAP104 KAP95
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34G – KAP95 YRB1 YRB2
K101R – CRM1 SRP1 SRM1
T34A – KAP95 YRB1 YRB2
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34E – KAP95 YRB1 YRB2
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34Q – KAP95 YRB1 YRB2
H141R – KAP95 YRB1 KAP104 CRM1
R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
H141I – KAP95 YRB1 KAP104 CRM1
Y157A – KAP95 CRM1 KAP104
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
Y148I – CRM1 KAP104

mut

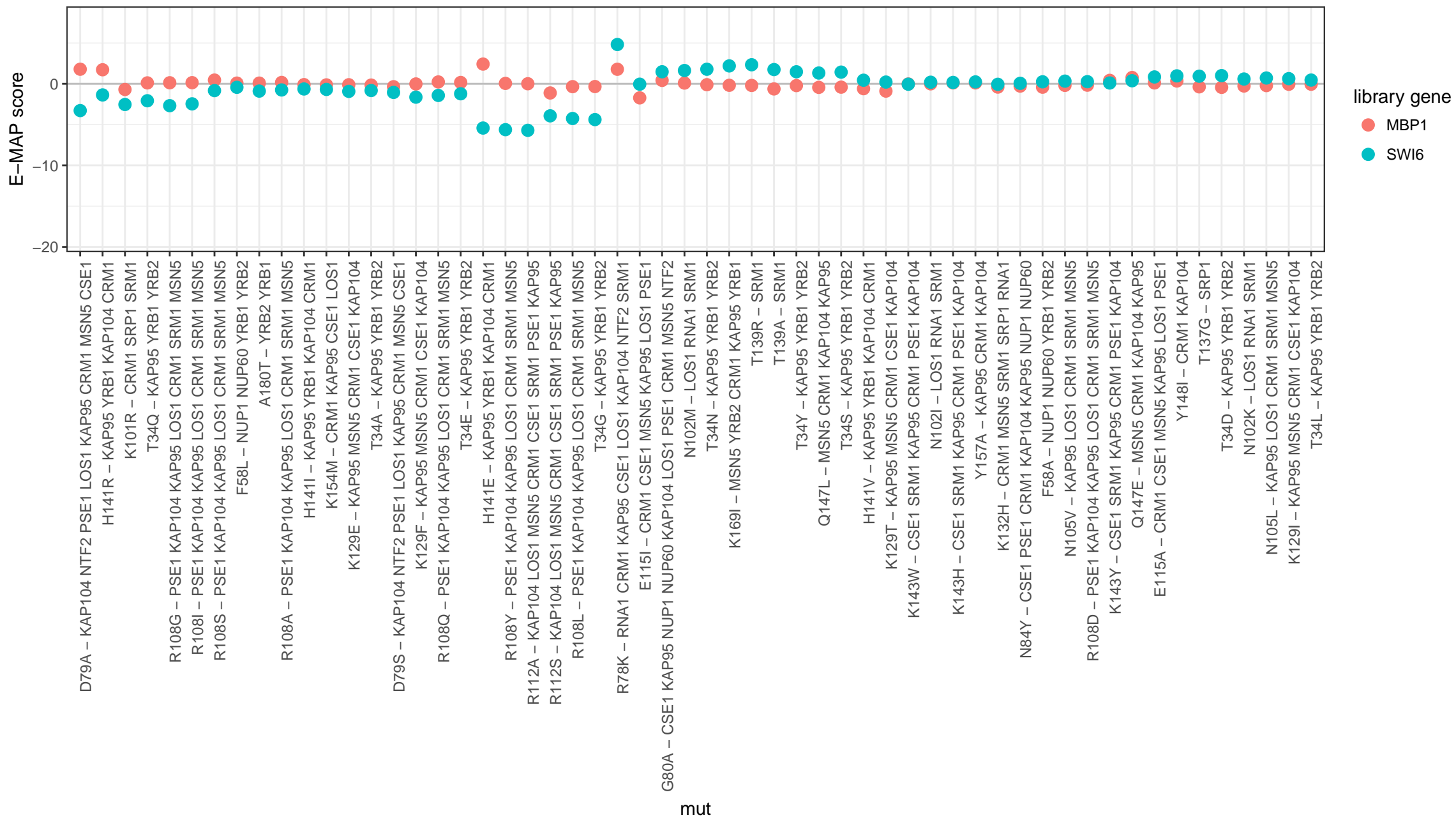
library gene

- UBA4
- AIM22
- FAT1
- GSH2
- UBA3

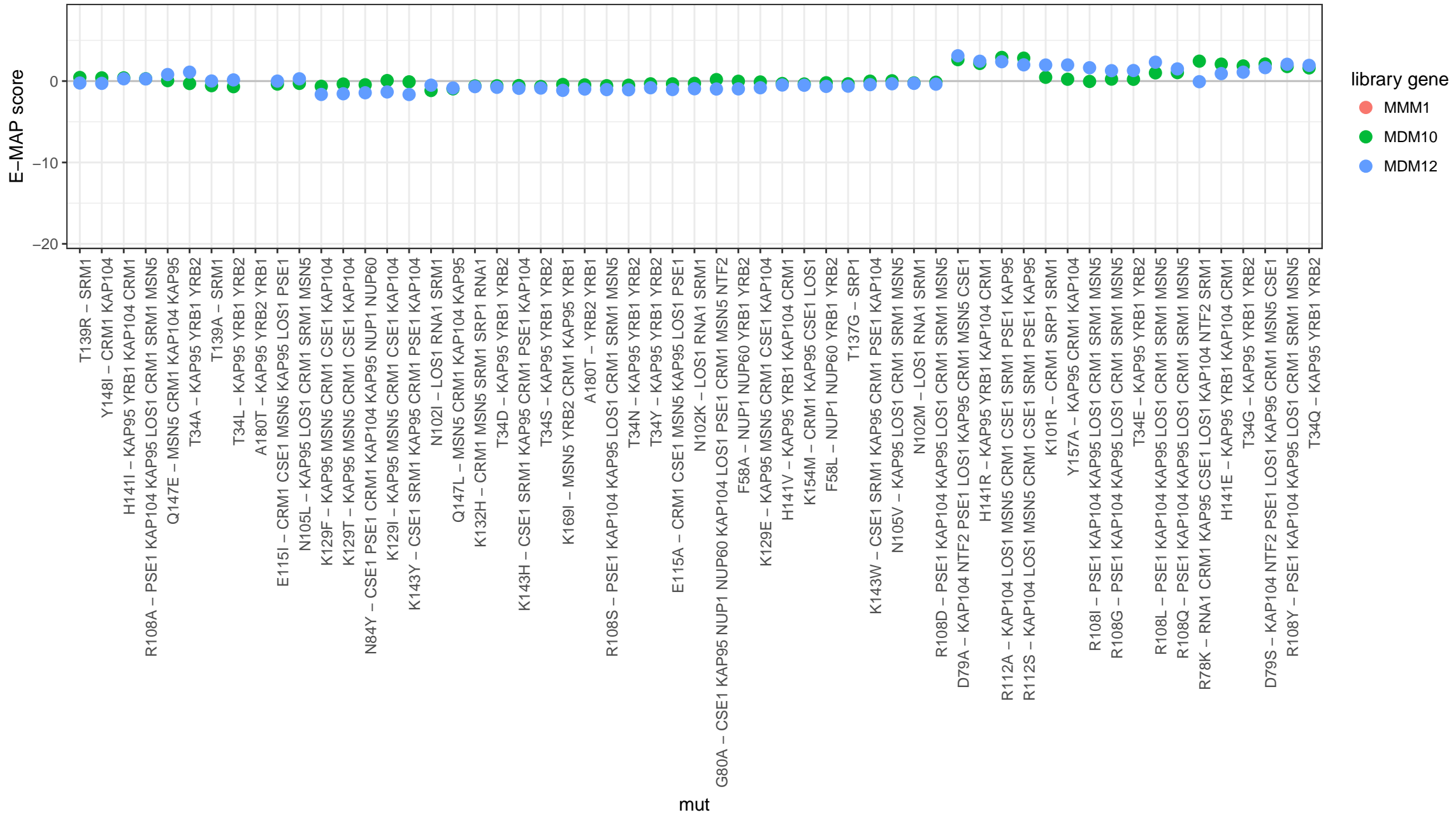
Mad1p/Mad2p complex



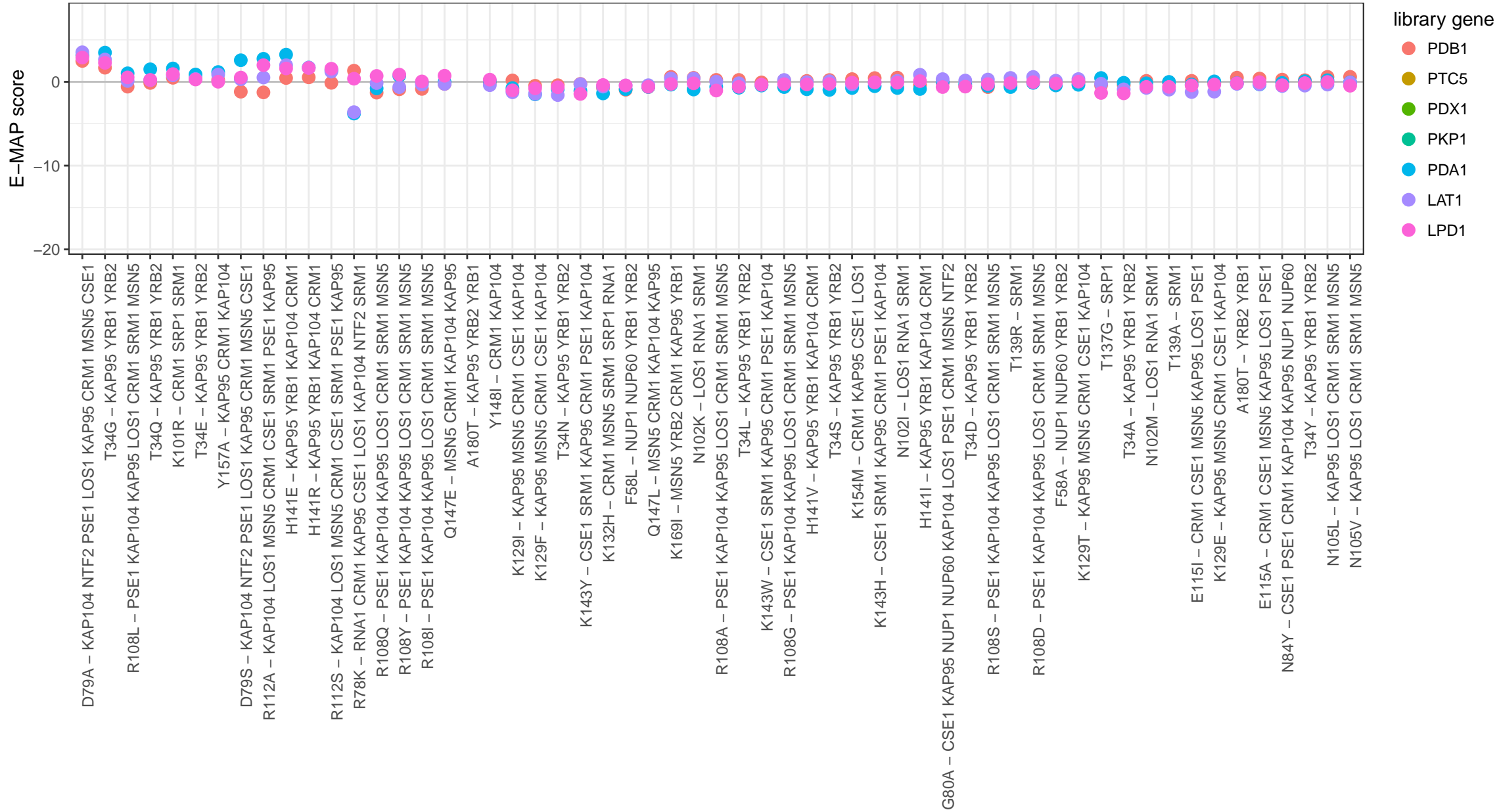
MBF complex



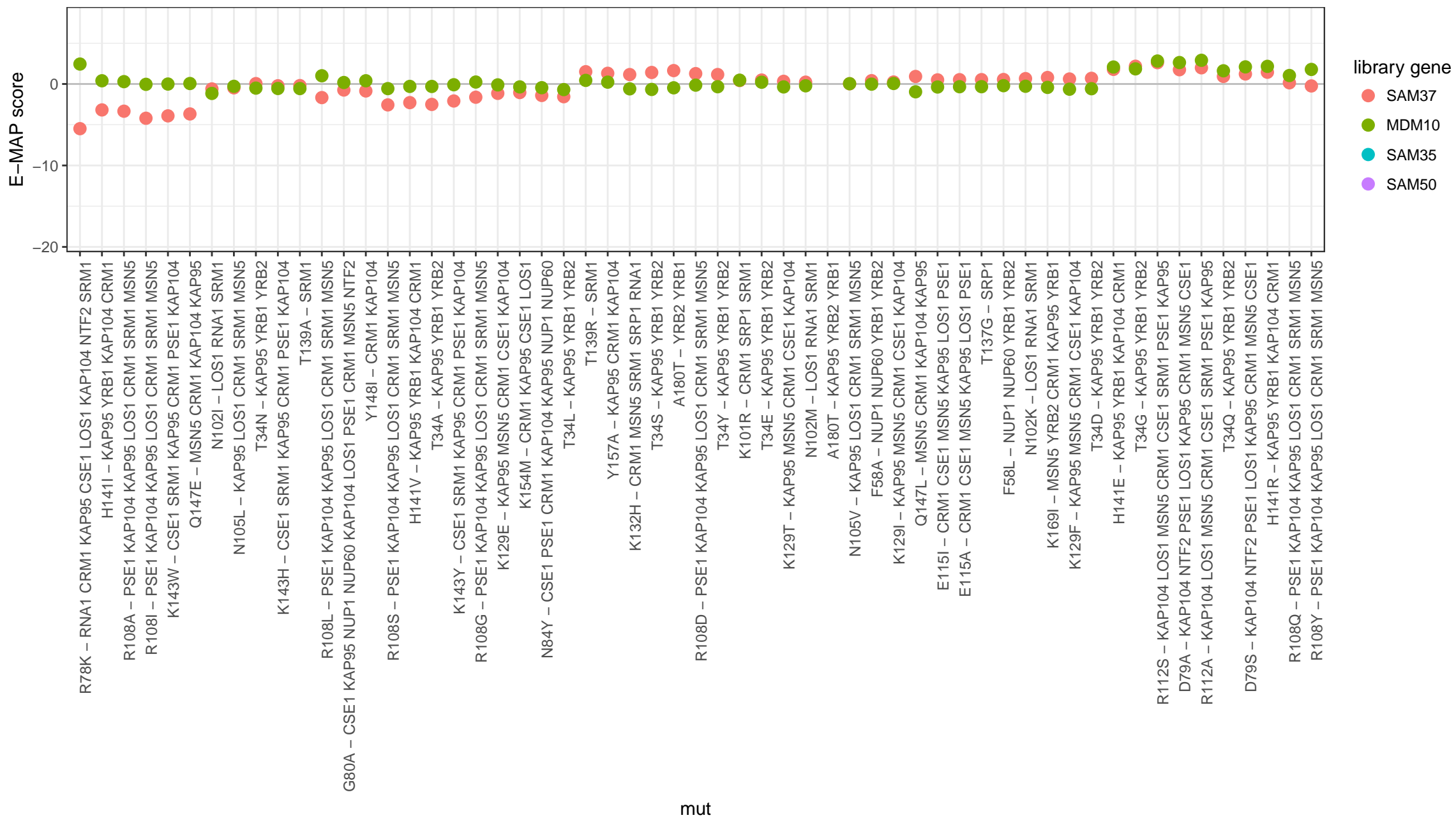
Mdm12p/Mmm1p/Mdm10p complex



mitochondrial pyruvate dehydrogenase complex



mitochondrial sorting and assembly machinery complex



mitochondrial translation

E-MAP score

-20

-10

0

mut

D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
H141E – KAP95 YRB1 KAP104 CRM1
T34G – KAP95 YRB1 YRB2
T34Q – KAP95 YRB1 YRB2
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
T34E – KAP95 YRB1 YRB2
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
H141R – KAP95 YRB1 KAP104 CRM1
K101R – CRM1 SRP1 SRM1
R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
Q147E – MSN5 CRM1 KAP104 KAP95
H141I – KAP95 YRB1 KAP104 CRM1
Y148I – CRM1 KAP104
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
A180T – YRB2 YRB1
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
Q147L – MSN5 CRM1 KAP104 KAP95
T34L – KAP95 YRB1 YRB2
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
K154M – CRM1 KAP95 CSE1 LOS1
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
T34S – KAP95 YRB1 YRB2
T139A – SRM1
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
N102I – LOS1 RNA1 SRM1
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
T34N – KAP95 YRB1 YRB2
T34A – KAP95 YRB1 YRB2
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
F58L – NUP1 NUP60 YRB1 YRB2
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34D – KAP95 YRB1 YRB2
T34Y – KAP95 YRB1 YRB2
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
T137G – SRP1
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
Y157A – KAP95 CRM1 KAP104
N102K – LOS1 RNA1 SRM1
F58A – NUP1 NUP60 YRB1 YRB2
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
N102M – LOS1 RNA1 SRM1
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
H141V – KAP95 YRB1 KAP104 CRM1
T139R – SRM1

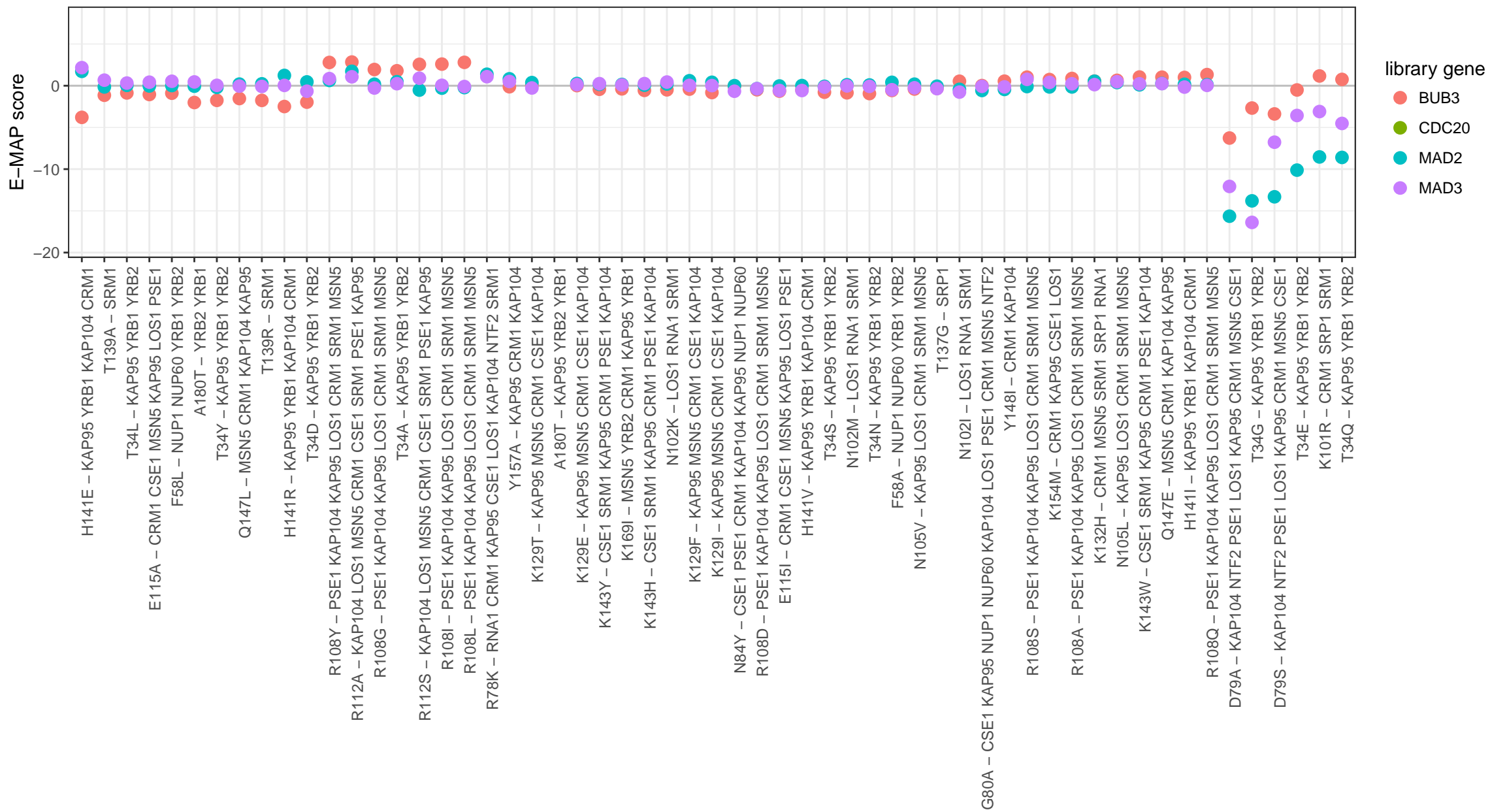
library gene

PTH1

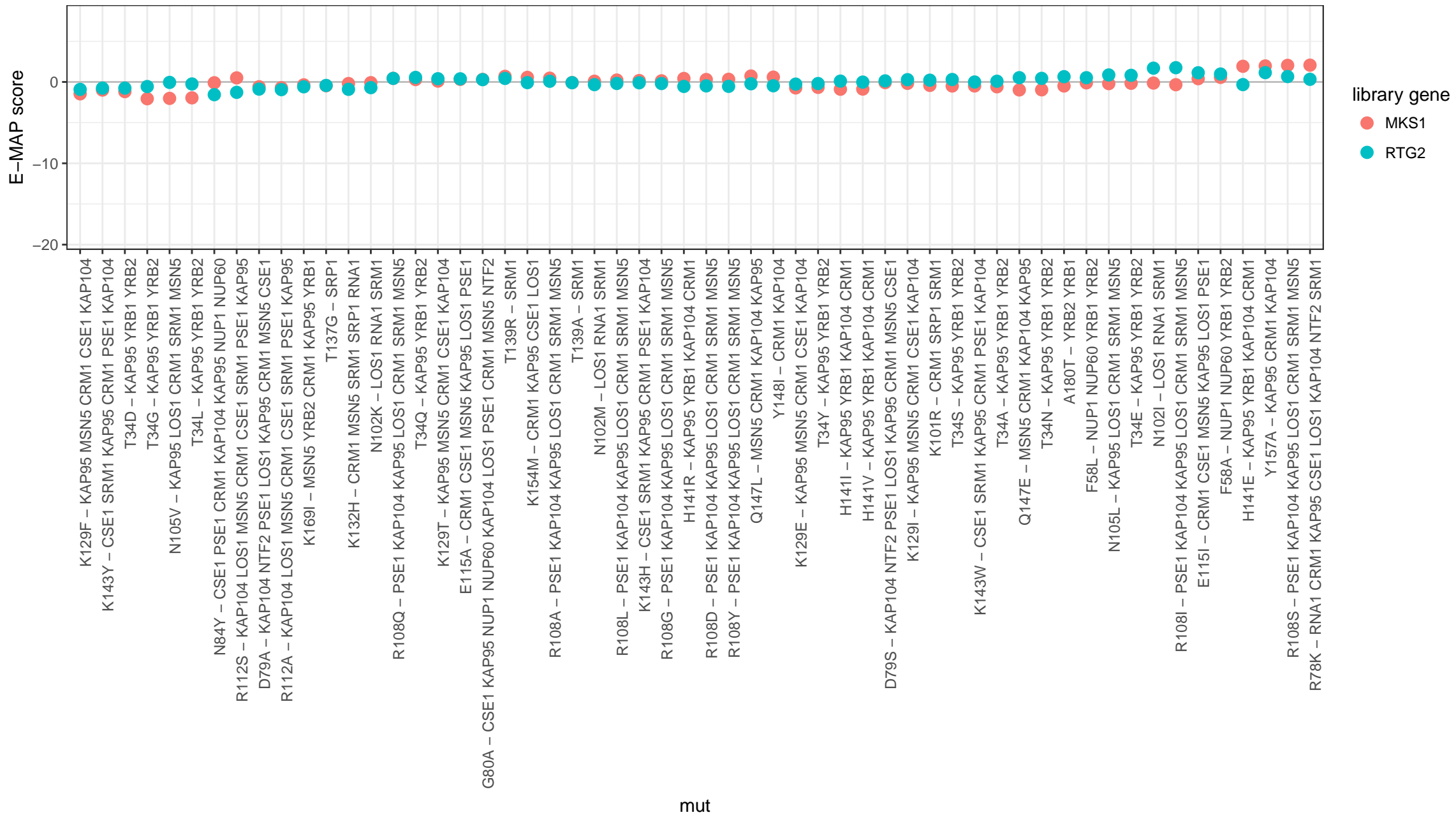
AEP2

MDM38

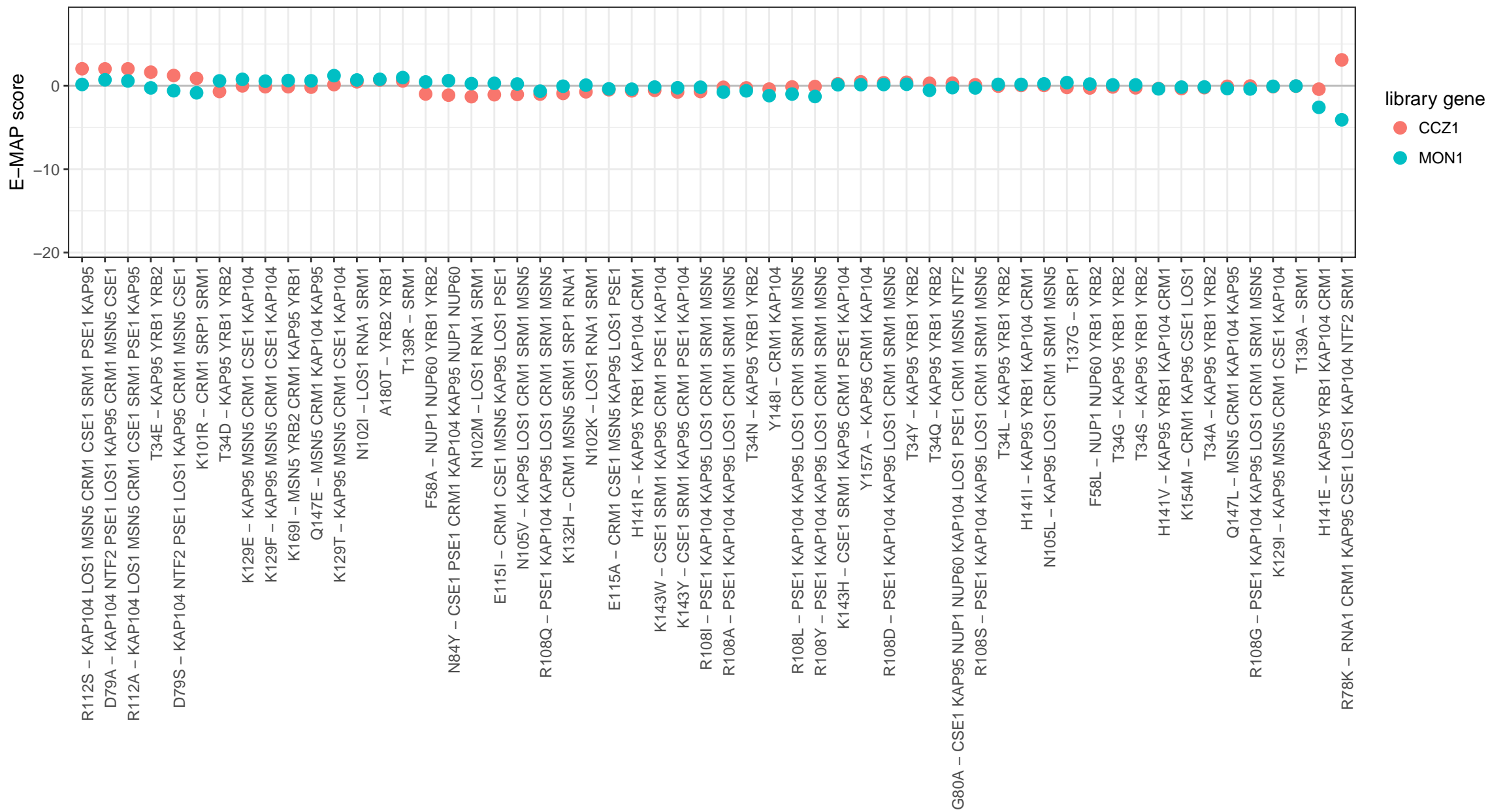
mitotic checkpoint complex



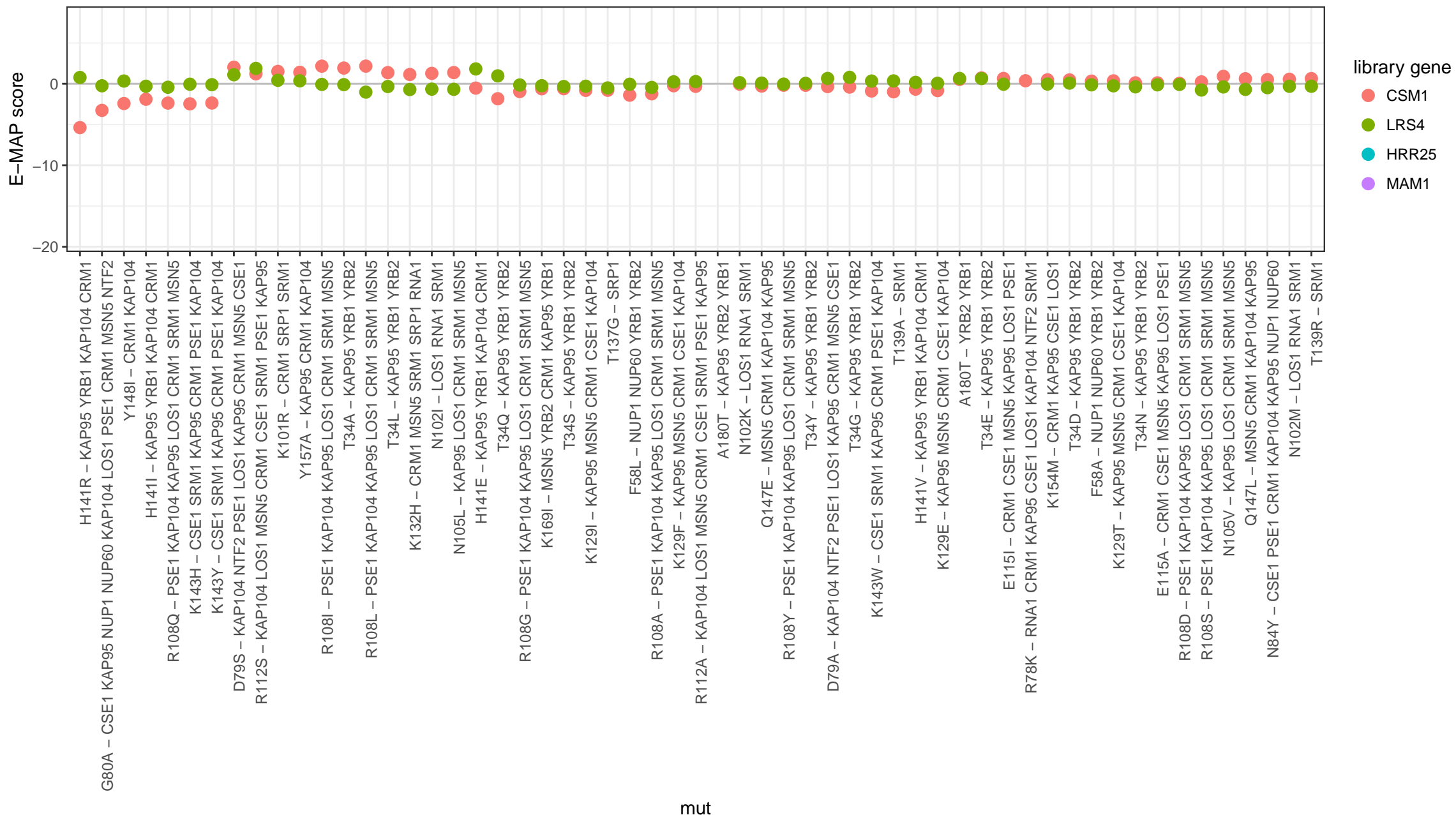
Mks1p/Rtg2p complex



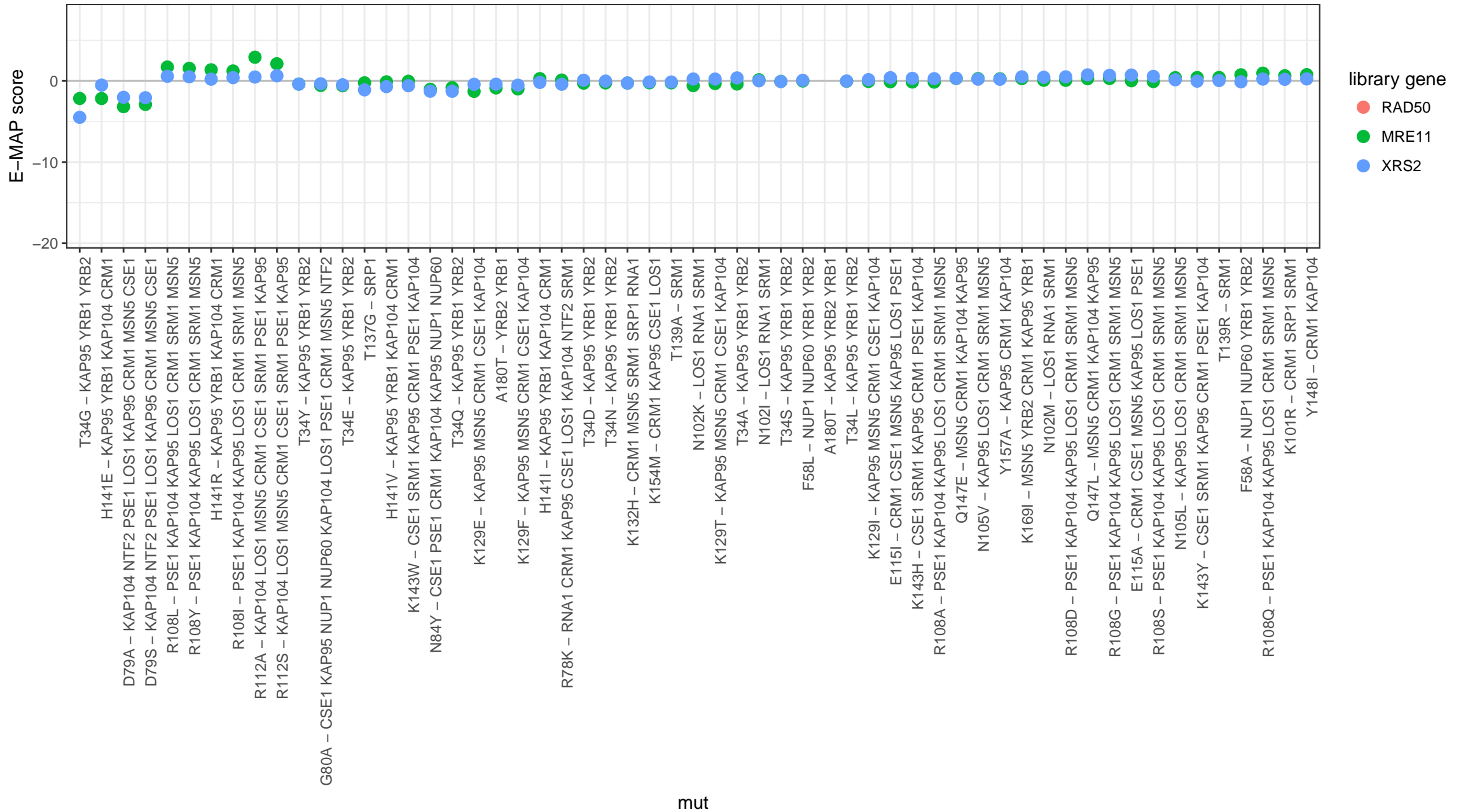
Mon1p/Ccz1p complex



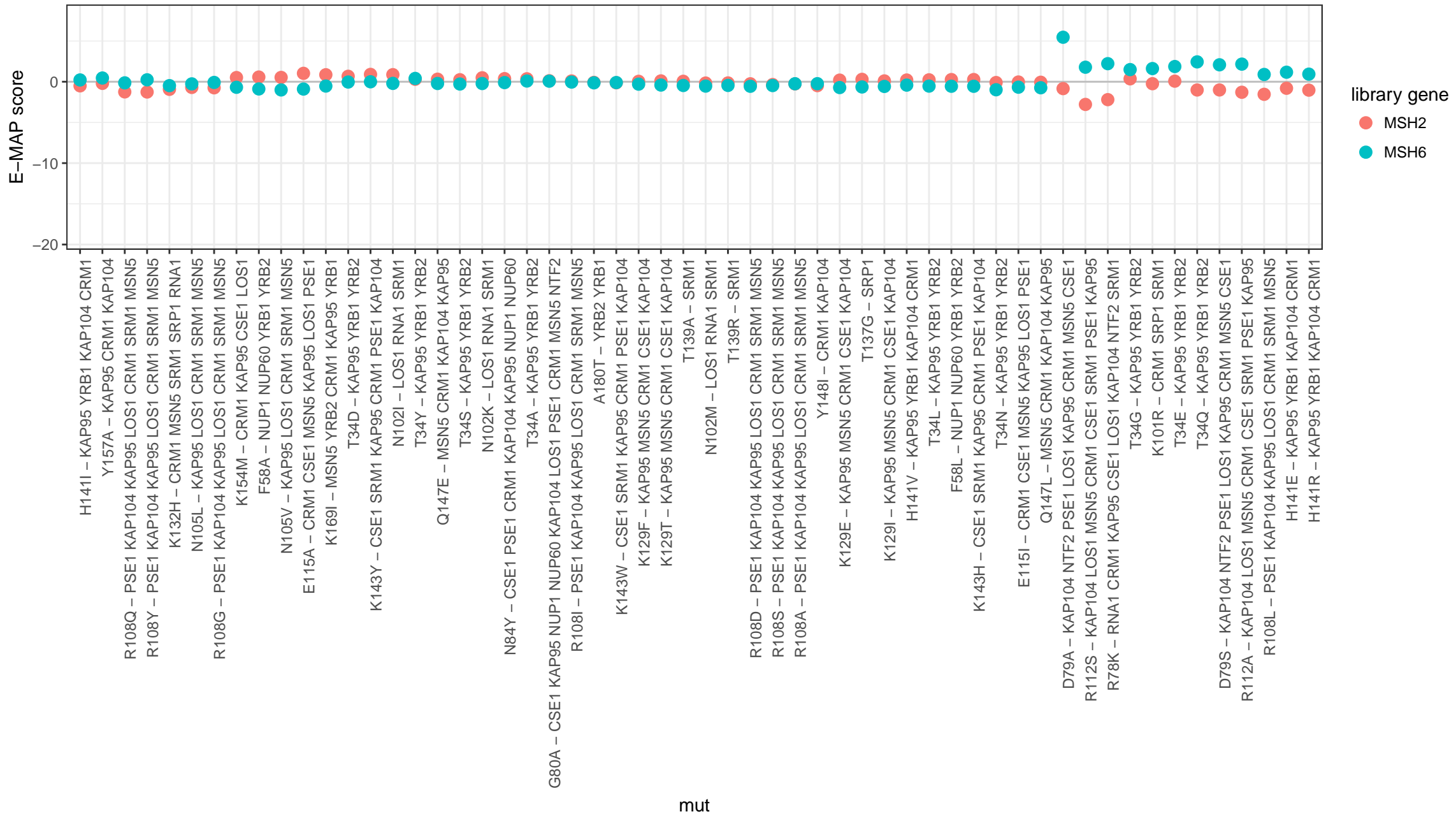
monopolin complex



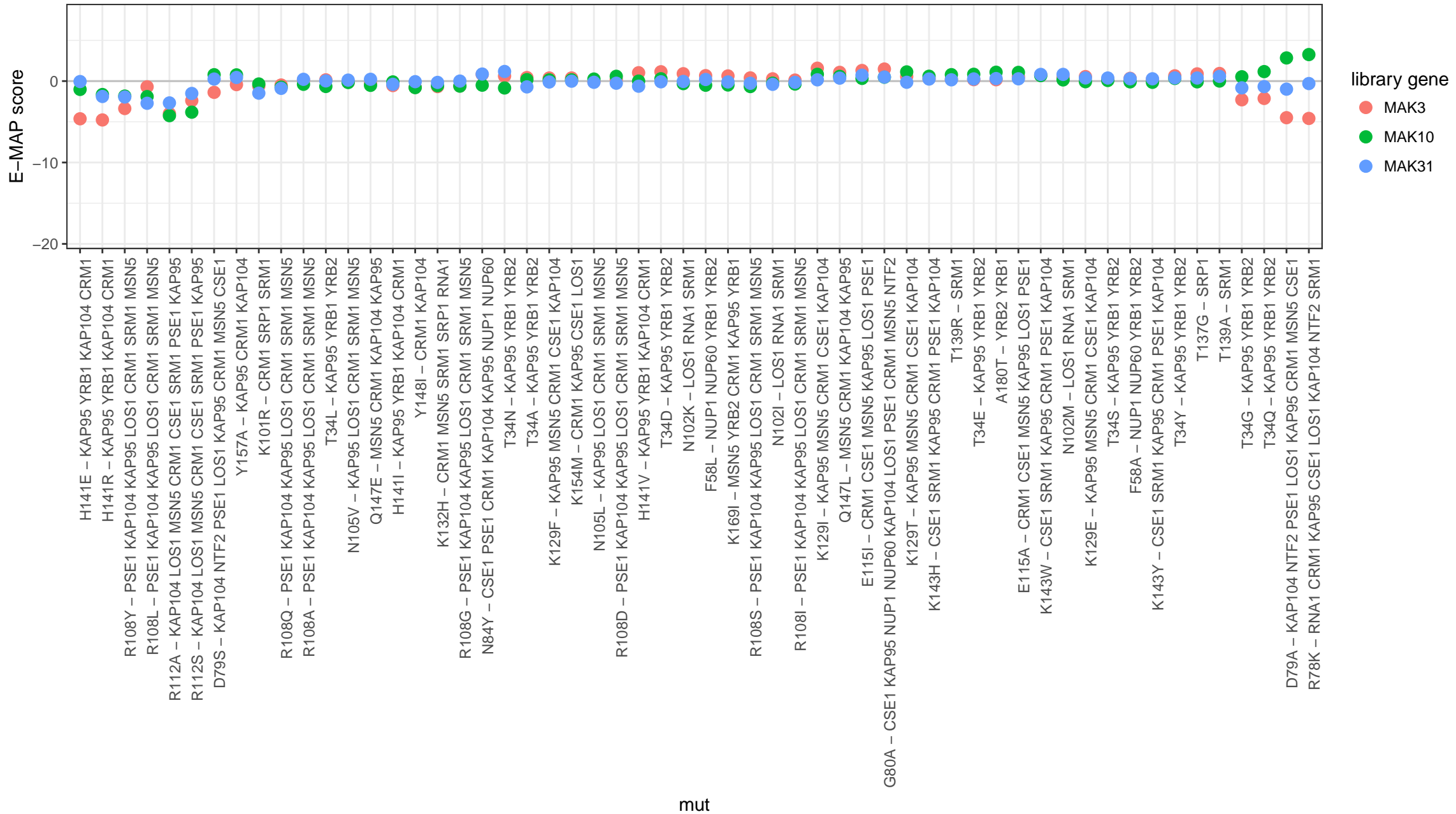
MRX complex



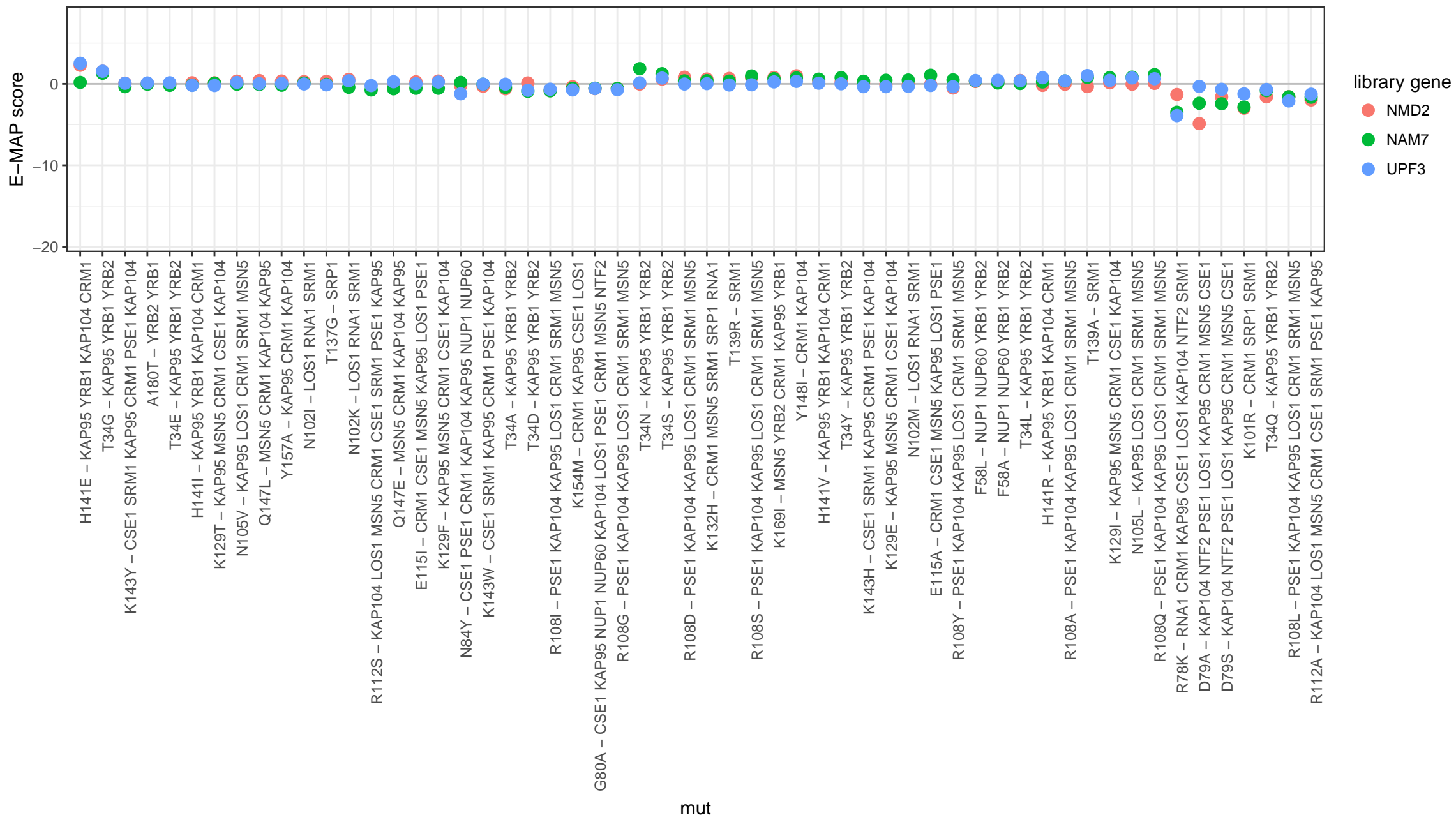
MSH2p/MSH6p complex



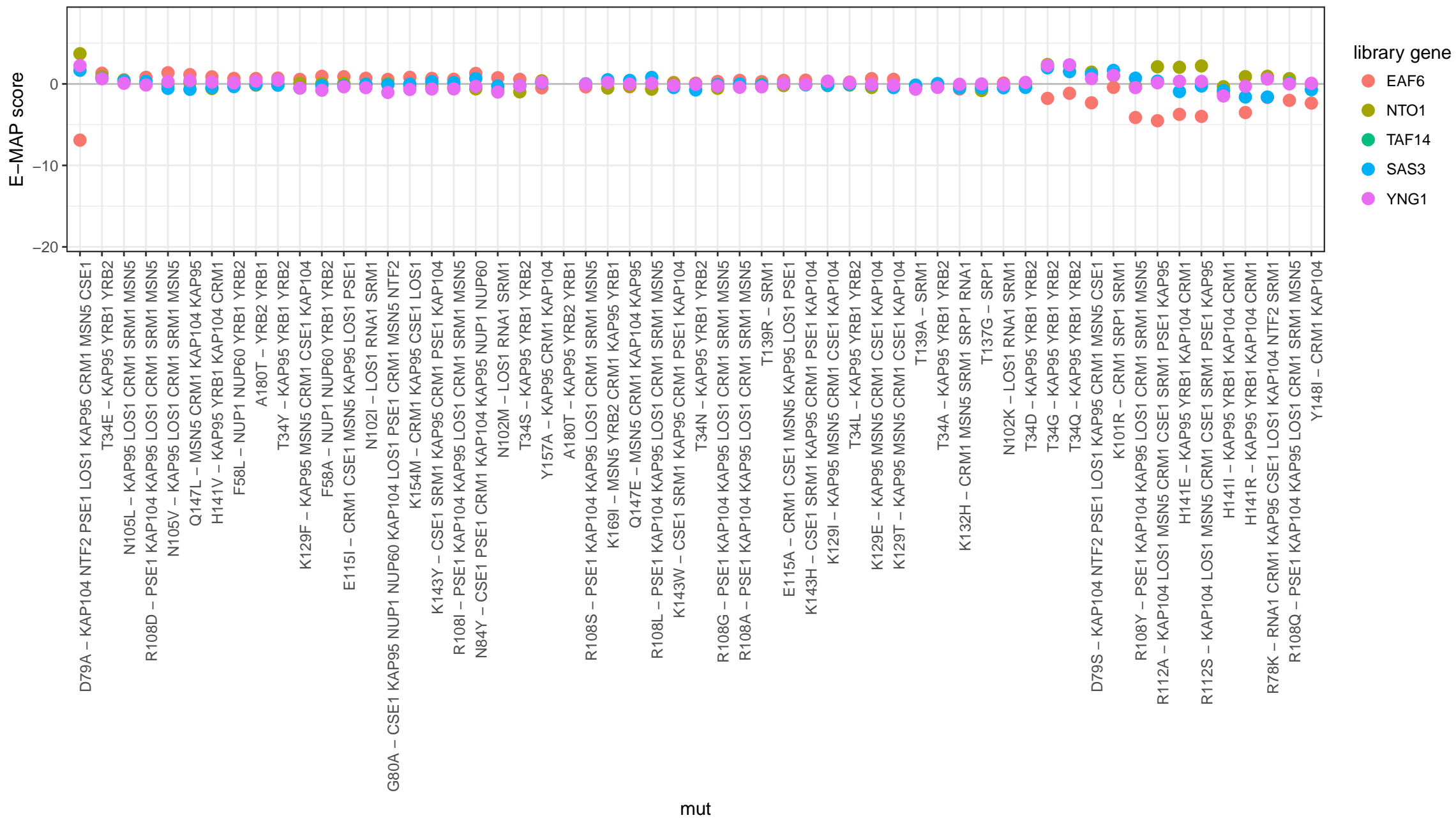
NatC complex



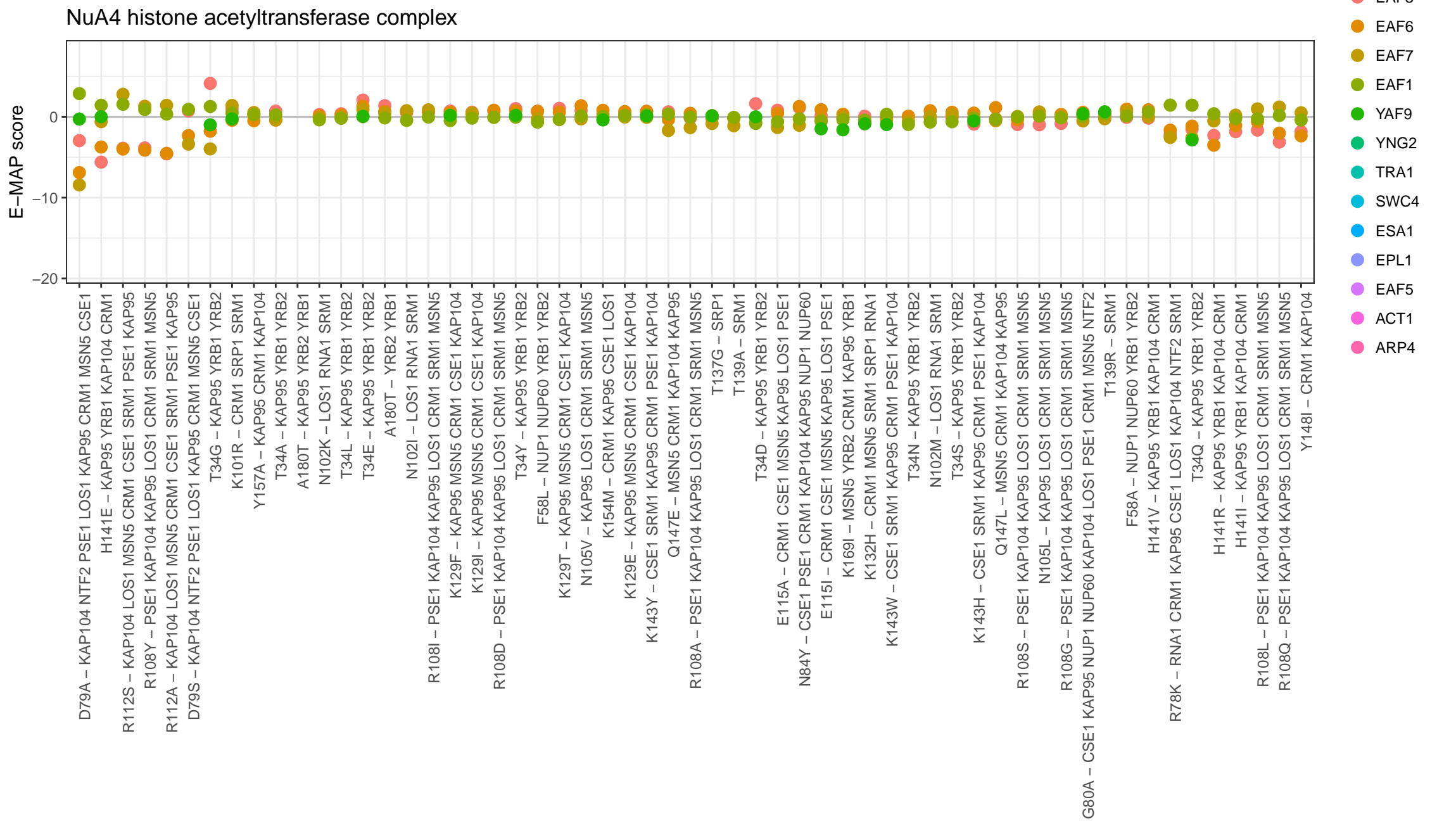
Nonsense-mediated mRNA decay pathway complex



NuA3 histone acetyltransferase complex



NuA4 histone acetyltransferase complex



Nuclear exosome complex

E-MAP score

-20

-10

0

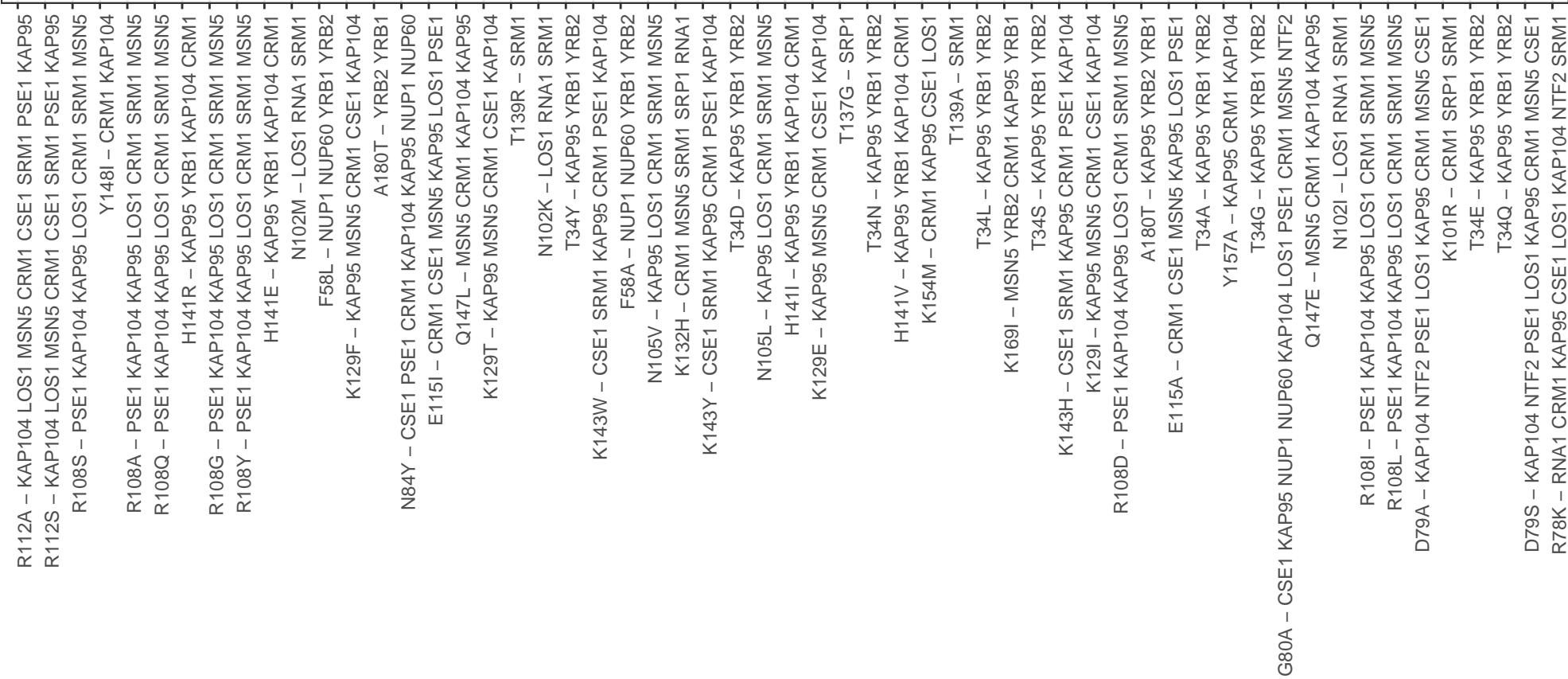
mut

F58A – NUP1 NUP60 YRB1 YRB2
F58L – NUP1 NUP60 YRB1 YRB2
K101R – CRM1 SRP1 SRM1
D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
N102I – LOS1 RNA1 SRM1
T34Y – KAP95 YRB1 YRB2
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
T34D – KAP95 YRB1 YRB2
N102K – LOS1 RNA1 SRM1
A180T – YRB2 YRB1
T34N – KAP95 YRB1 YRB2
T139A – SRM1
T137G – SRP1
T34S – KAP95 YRB1 YRB2
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
K154M – CRM1 KAP95 CSE1 LOS1
H141R – KAP95 YRB1 KAP104 CRM1
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
H141V – KAP95 YRB1 KAP104 CRM1
T34A – KAP95 YRB1 YRB2
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34E – KAP95 YRB1 YRB2
H141I – KAP95 YRB1 KAP104 CRM1
H141E – KAP95 YRB1 KAP104 CRM1
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34G – KAP95 YRB1 YRB2
R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
T34Q – KAP95 YRB1 YRB2
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
T34L – KAP95 YRB1 YRB2
Y148I – CRM1 KAP104
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
Q147L – MSN5 CRM1 KAP104 KAP95
Y157A – KAP95 CRM1 KAP104
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
N102M – LOS1 RNA1 SRM1
T139R – SRM1
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
A180T – KAP95 YRB2 YRB1
Q147E – MSN5 CRM1 KAP104 KAP95

- LRP1
- RRP6
- SKI6
- RRP46
- RRP45
- RRP43
- RRP42
- RRP40
- RRP4
- MTR3
- CSL4
- DIS3

Nucleosomal protein complex

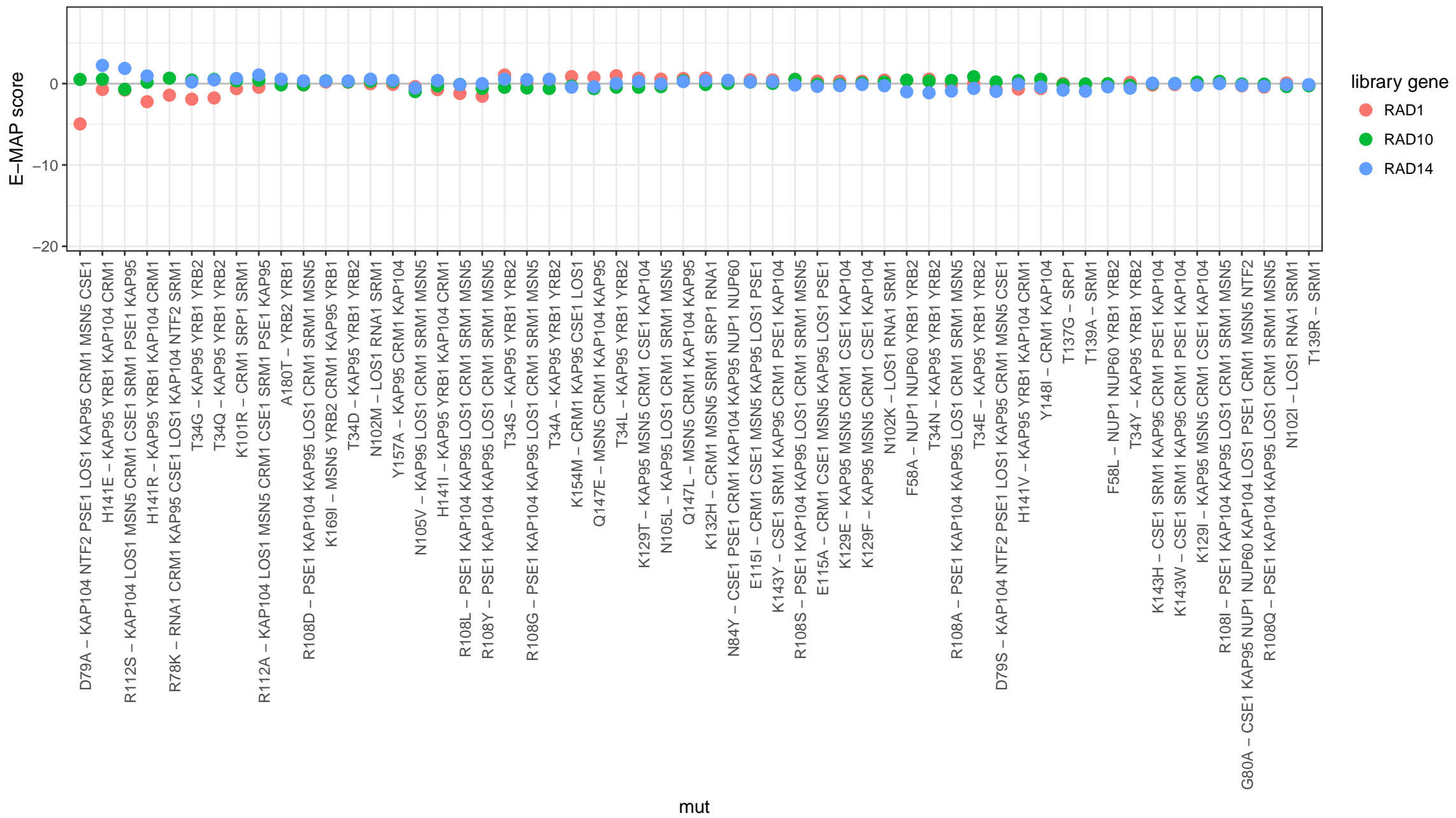
E-MAP score



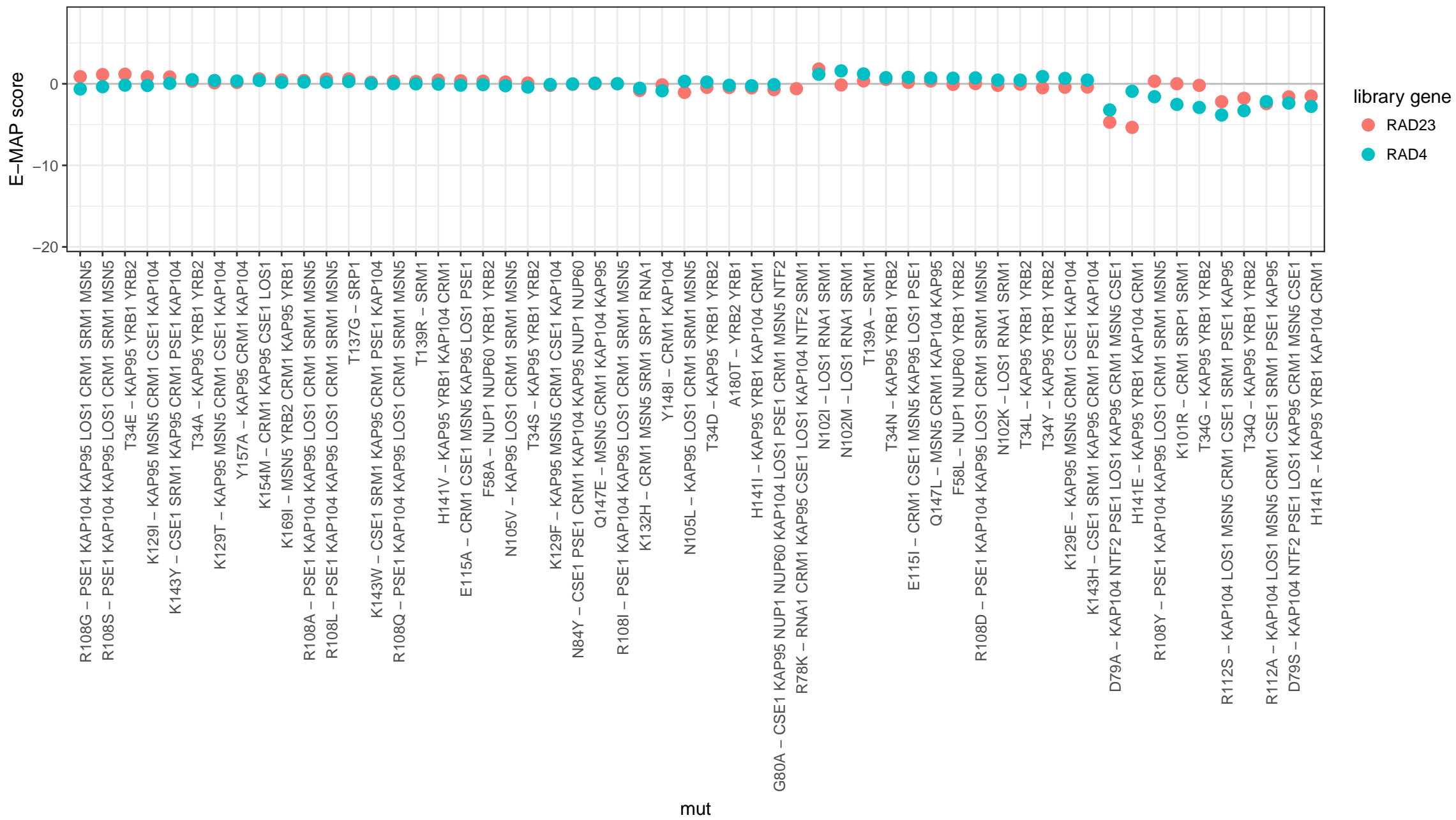
- library gene
- HHF2
 - HHT1
 - HHT2
 - HTB2
 - HTA2
 - HTB1
 - HHF1
 - HTA1

mut

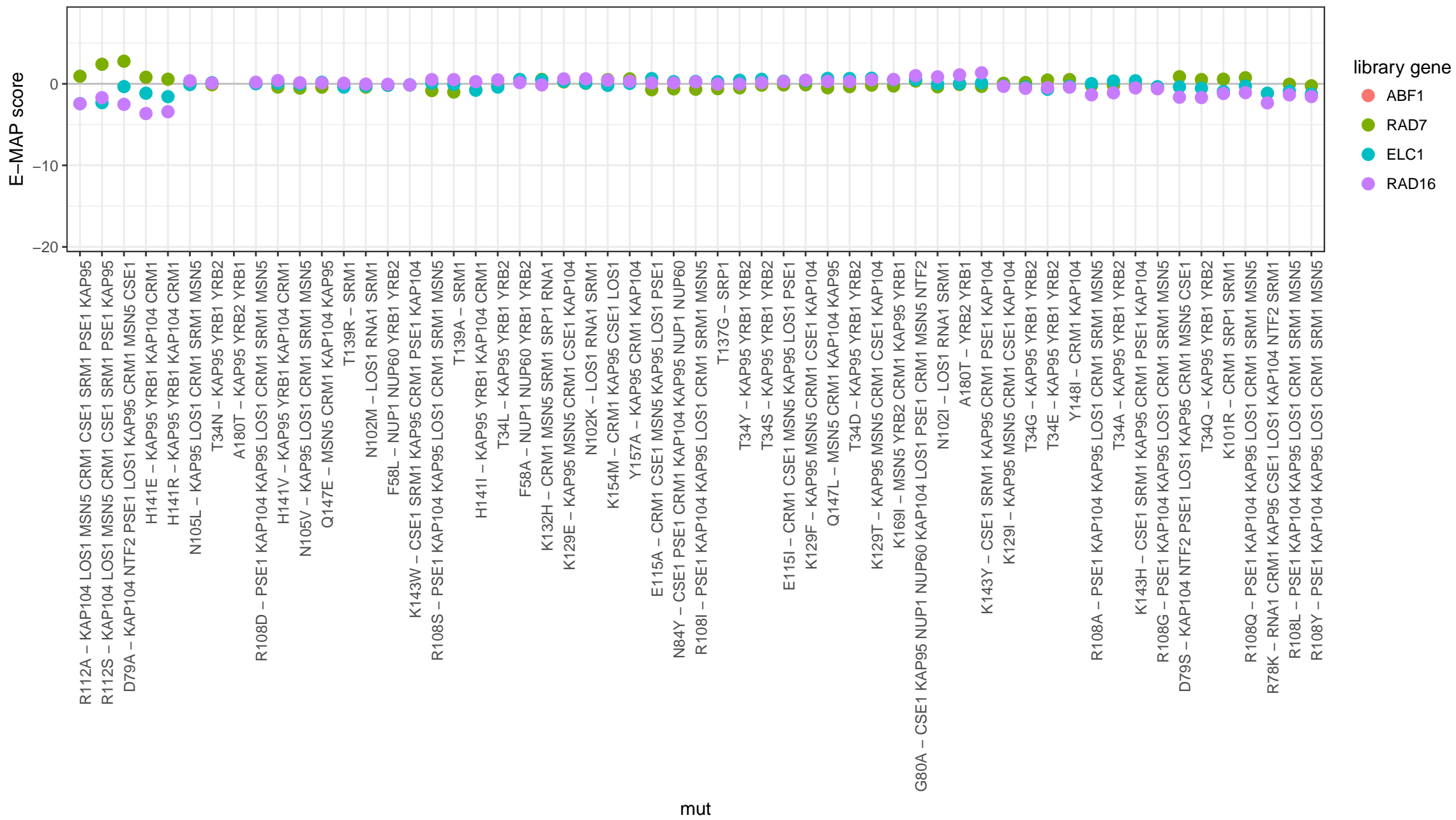
nucleotide–excision repair factor 1 complex



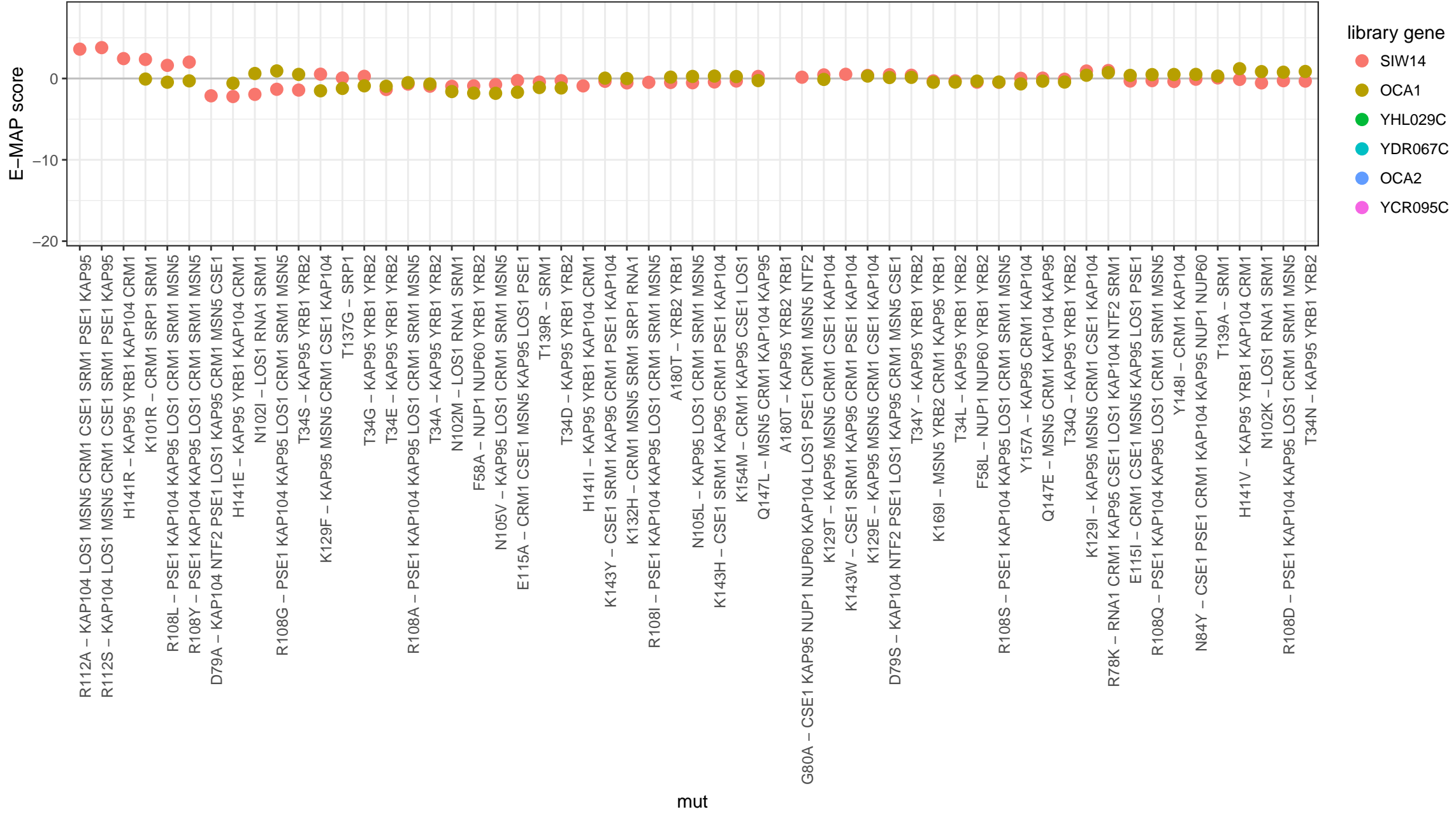
nucleotide–excision repair factor 2 complex



nucleotide–excision repair factor 4 complex



OCA complex



oligosaccharide metabolic process

E-MAP score

-20

-10

0

mut

T137G – SRP1
T34L – KAP95 YRB1 YRB2
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
T34Y – KAP95 YRB1 YRB2
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34S – KAP95 YRB1 YRB2
F58L – NUP1 NUP60 YRB1 YRB2
T34D – KAP95 YRB1 YRB2
H141I – KAP95 YRB1 KAP104 CRM1
T34N – KAP95 YRB1 YRB2
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
T139A – SRM1
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
Y148I – CRM1 KAP104
Y157A – KAP95 CRM1 KAP104
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
N102M – LOS1 RNA1 SRM1
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
K154M – CRM1 KAP95 CSE1 LOS1
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
N102K – LOS1 RNA1 SRM1
H141V – KAP95 YRB1 KAP104 CRM1
T139R – SRM1
A180T – YRB2 YRB1
N102I – LOS1 RNA1 SRM1
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
Q147L – MSN5 CRM1 KAP104 KAP95
F58A – NUP1 NUP60 YRB1 YRB2
Q147E – MSN5 CRM1 KAP104 KAP95
R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
T34Q – KAP95 YRB1 YRB2
K101R – CRM1 SRP1 SRM1
T34E – KAP95 YRB1 YRB2
H141R – KAP95 YRB1 KAP104 CRM1
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
T34A – KAP95 YRB1 YRB2
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
H141E – KAP95 YRB1 KAP104 CRM1

- library gene
- TPS2
 - TPS1
 - TSL1
 - SNF6
 - SNF5
 - SWI3

oligosaccharyl transferase complex

E-MAP score

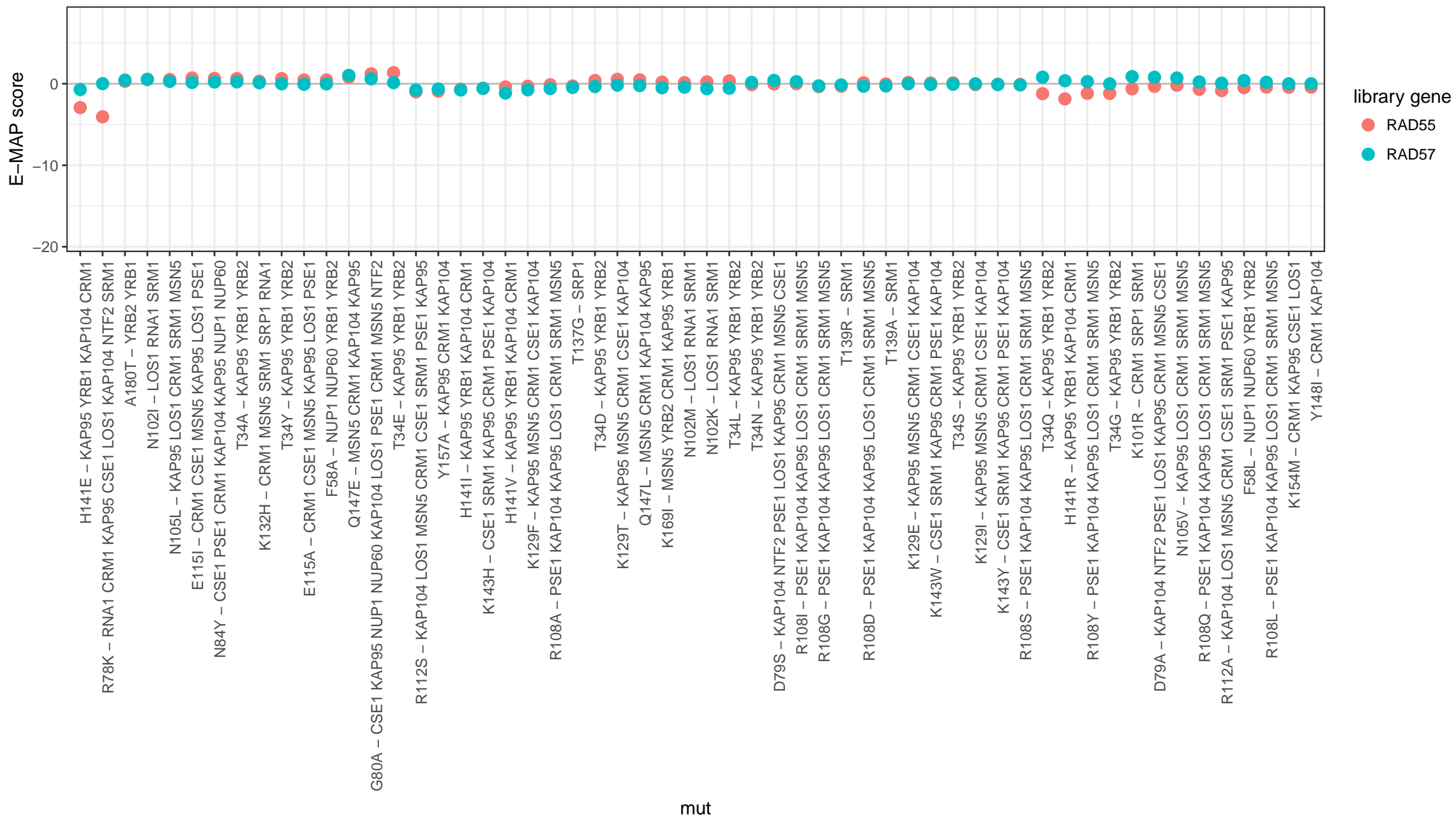
0
-10
-20



mut

- library gene
- OST3
 - OST4
 - OST5
 - OST6
 - WBP1
 - SWP1
 - STT3
 - OST1
 - OST2

other DNA repair complexes



polarisome complex

E-MAP score

-20

-10

0

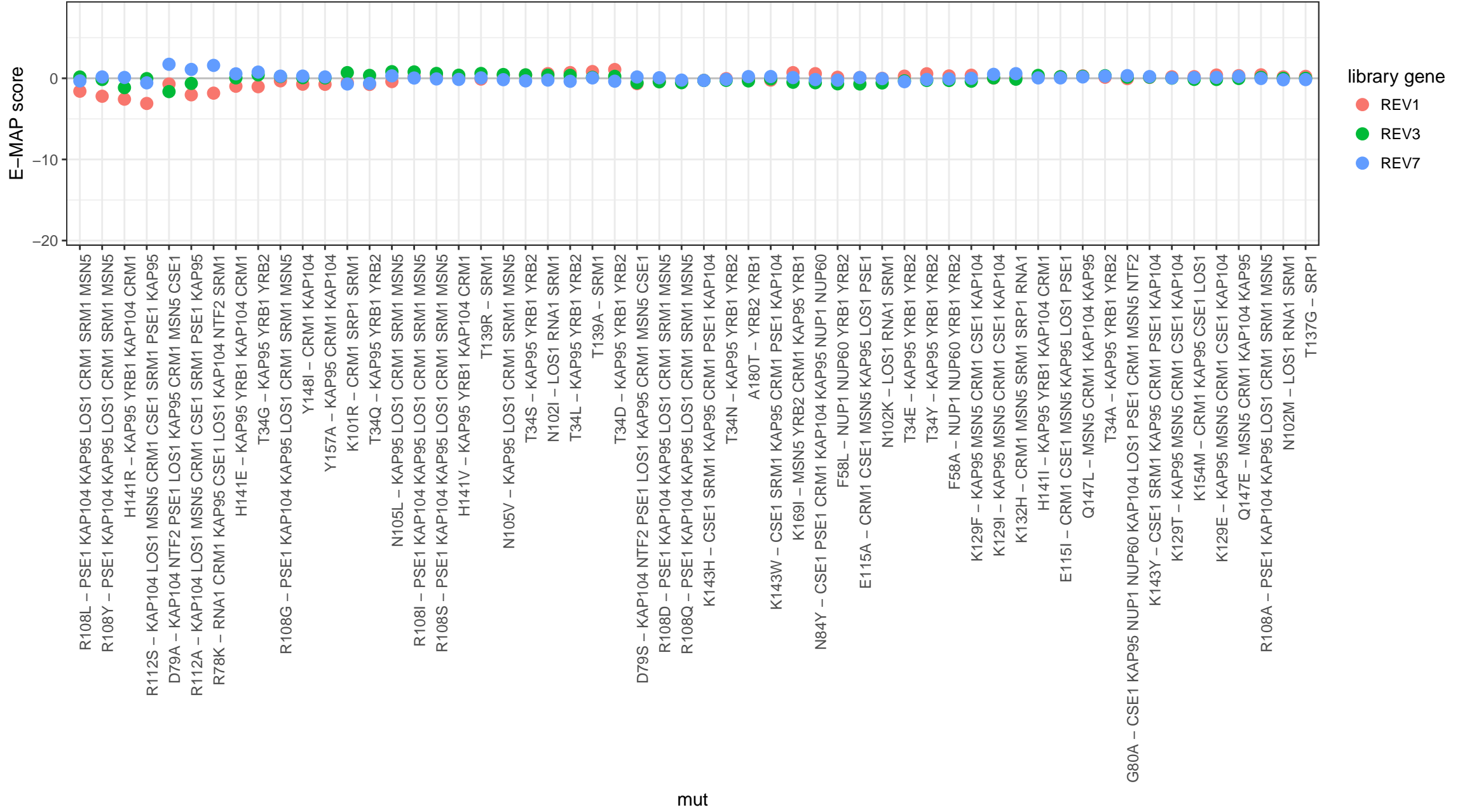
mut

library gene

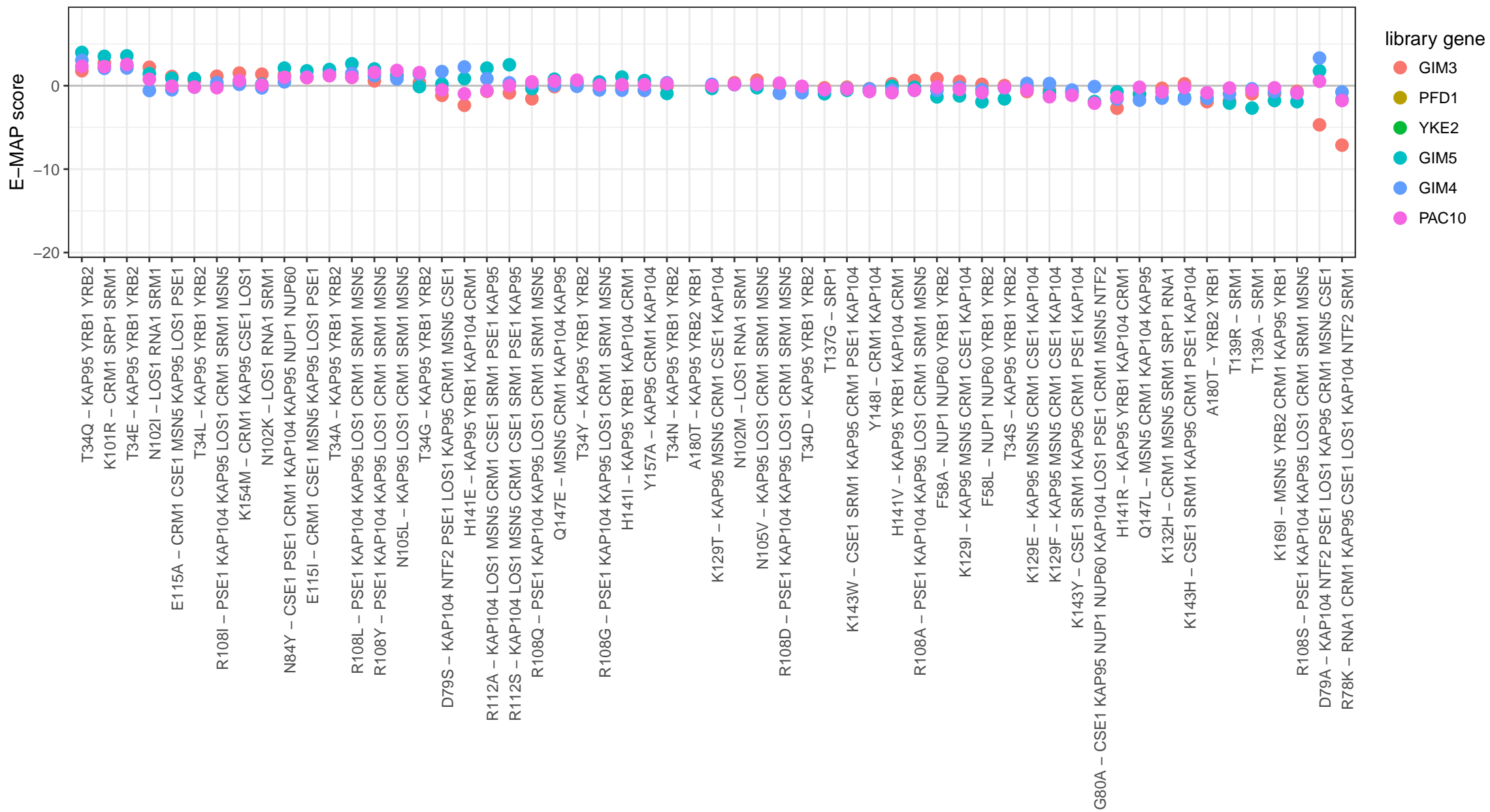
- SPA2
- BUD6
- PEA2

R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
N102K – LOS1 RNA1 SRM1
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
Y148I – CRM1 KAP104
H141I – KAP95 YRB1 KAP104 CRM1
H141R – KAP95 YRB1 KAP104 CRM1
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T139A – SRM1
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
F58A – NUP1 NUP60 YRB1 YRB2
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
K154M – CRM1 KAP95 CSE1 LOS1
Y157A – KAP95 CRM1 KAP104
T34A – KAP95 YRB1 YRB2
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
A180T – KAP95 YRB2 YRB1
A180T – YRB2 YRB1
A180T – YRB2 YRB1
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
T34L – KAP95 YRB1 YRB2
T34S – KAP95 YRB1 YRB2
T34Y – KAP95 YRB1 YRB2
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
N102M – LOS1 RNA1 SRM1
F58L – NUP1 NUP60 YRB1 YRB2
H141V – KAP95 YRB1 KAP104 CRM1
T139R – SRM1
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
T34D – KAP95 YRB1 YRB2
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
N102I – LOS1 RNA1 SRM1
Q147E – MSN5 CRM1 KAP104 KAP95
Q147L – MSN5 CRM1 KAP104 KAP95
T137G – SRP1
T34N – KAP95 YRB1 YRB2
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
H141E – KAP95 YRB1 KAP104 CRM1
K101R – CRM1 SRP1 SRM1
T34G – KAP95 YRB1 YRB2
T34Q – KAP95 YRB1 YRB2
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
T34E – KAP95 YRB1 YRB2

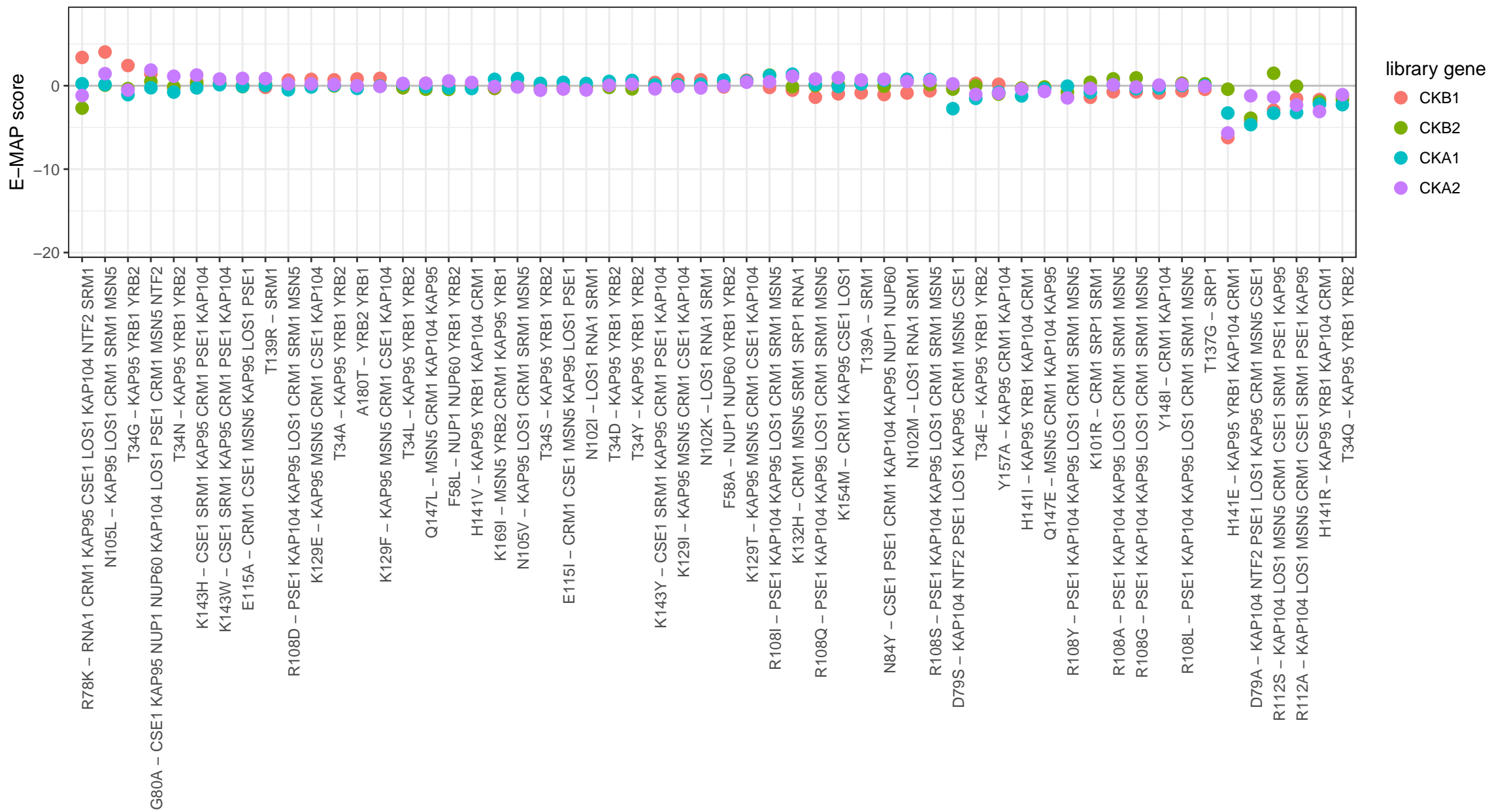
Polzeta-Rev1p complex



prefoldin complex



protein kinase CK2 complex



protein lipidation

E-MAP score

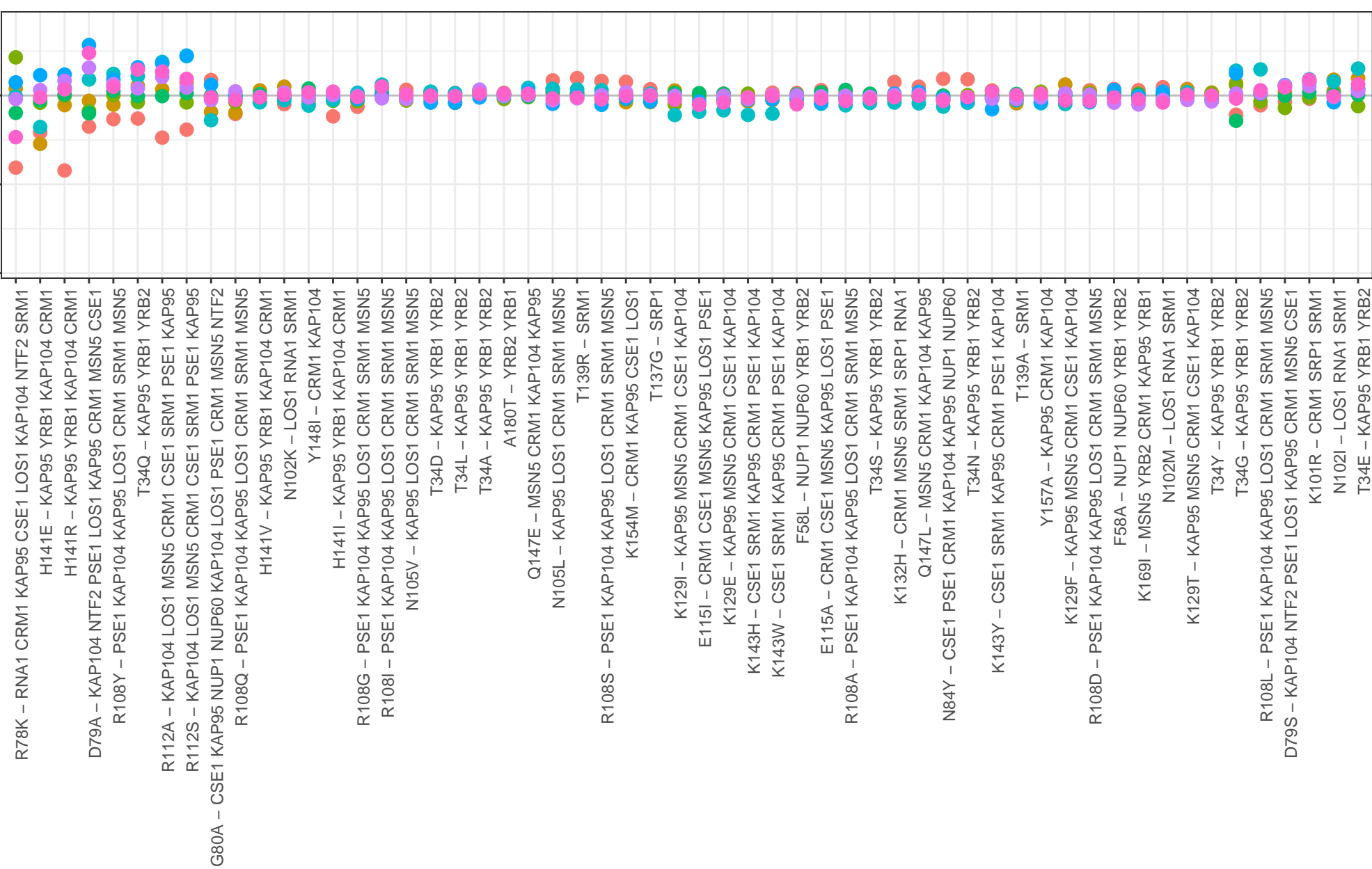
-20

-10

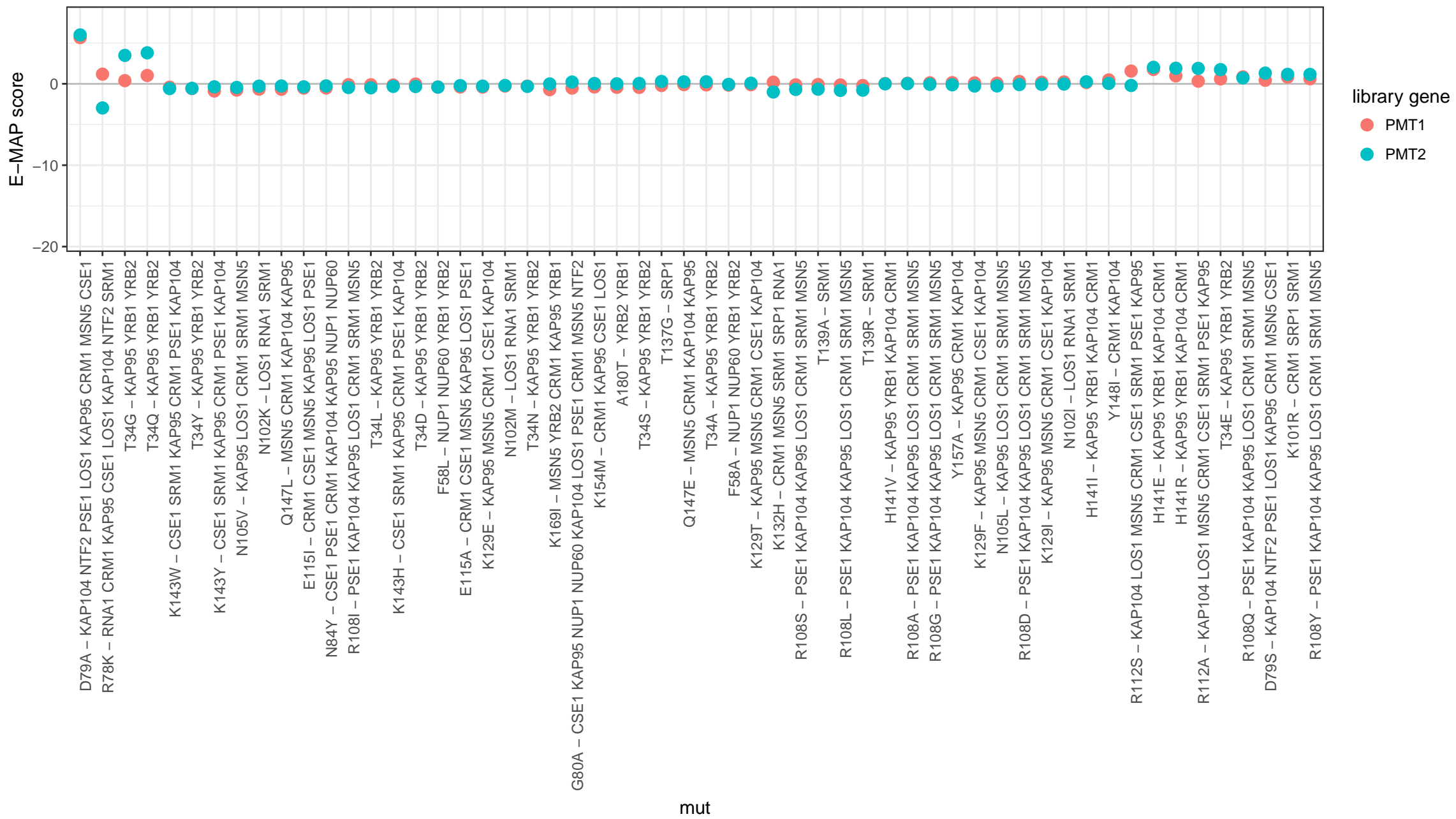
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mut

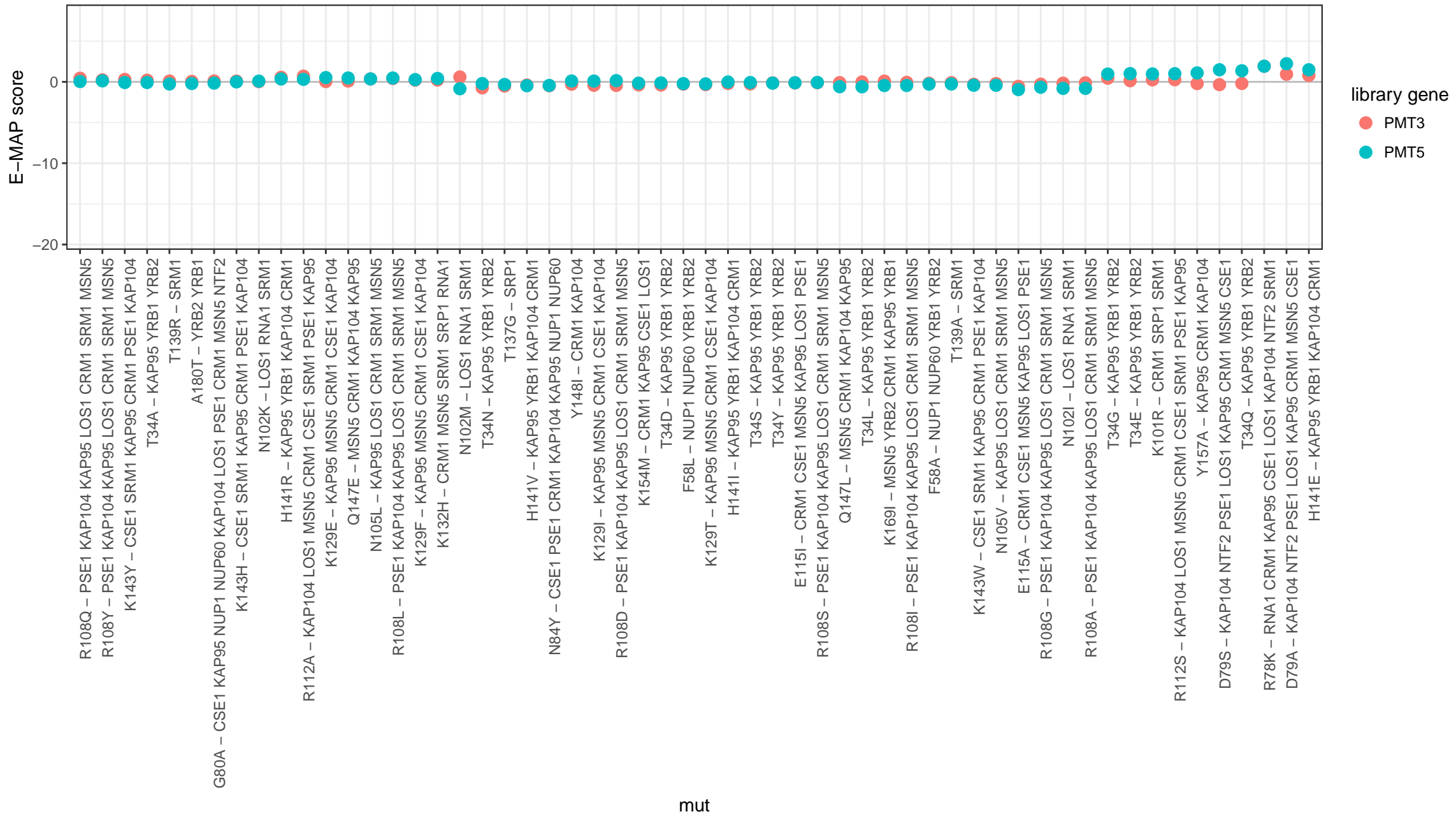
- library gene
- AKR2
 - SWF1
 - ATG21
 - PFA4
 - GUP1
 - PER1
 - CWH43
 - LAS21



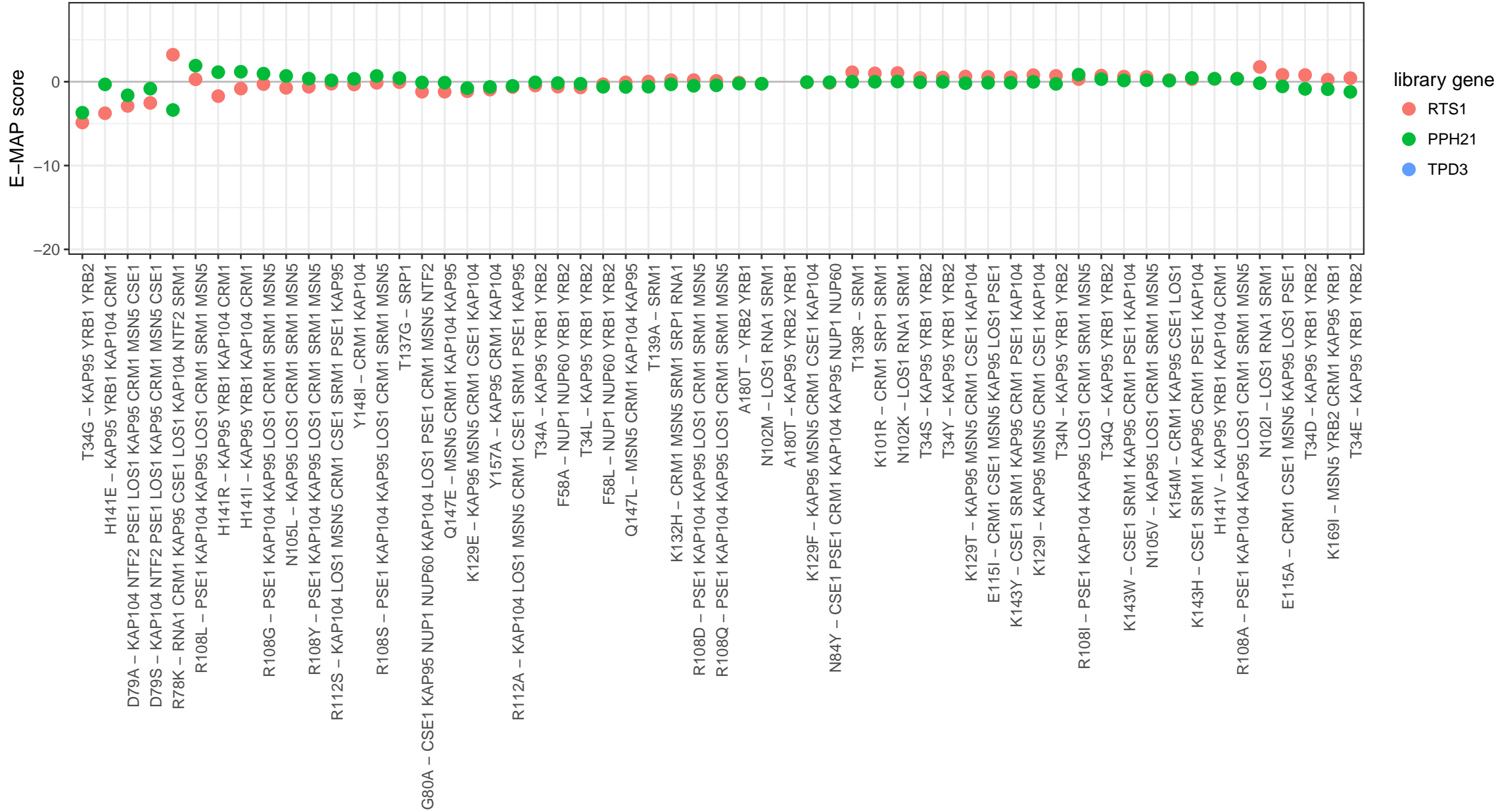
Protein O-mannosyltransferase(Pmt1p/Pmt2p)



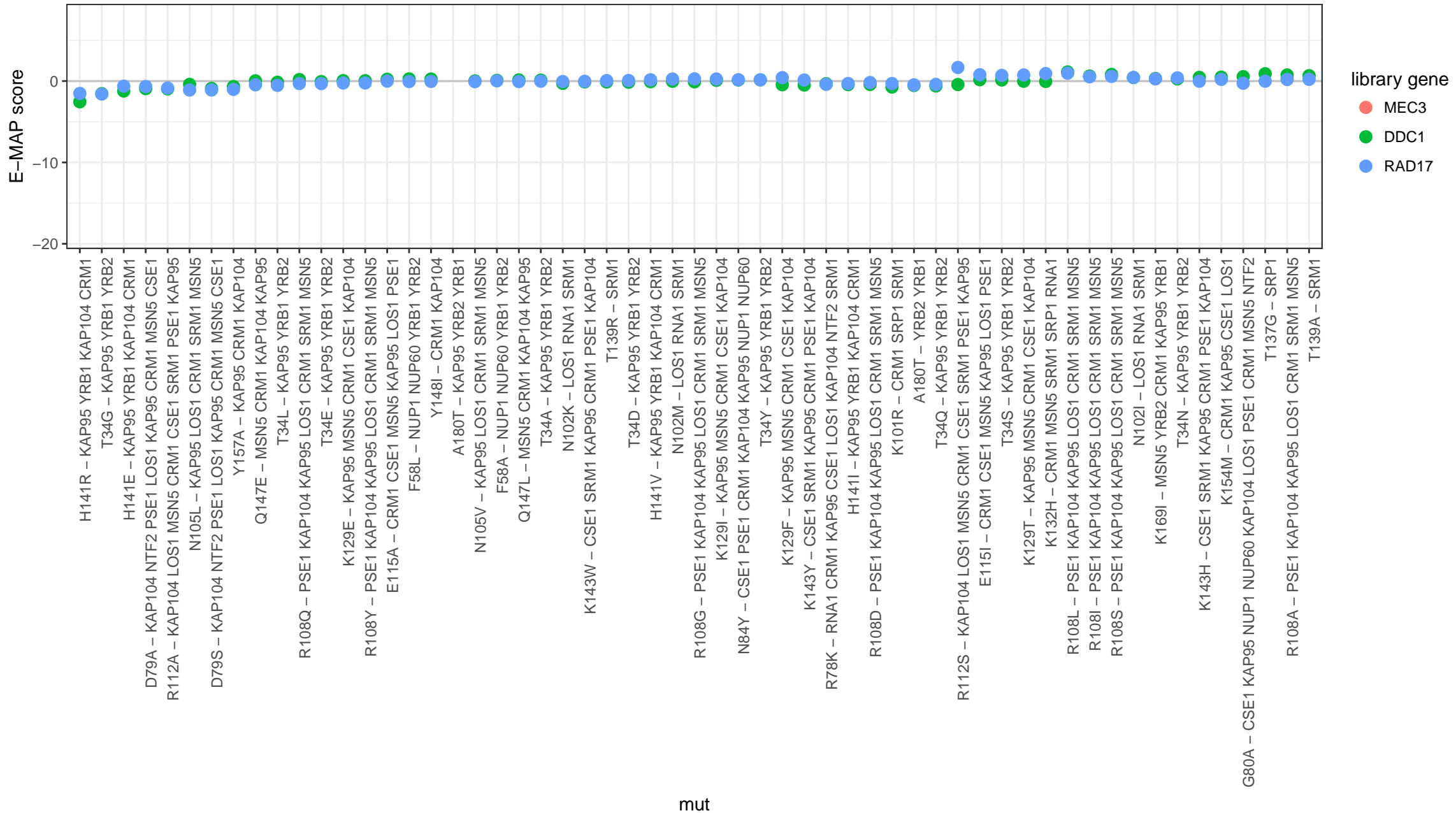
Protein O-mannosyltransferase(Pmt3p/Pmt5p)



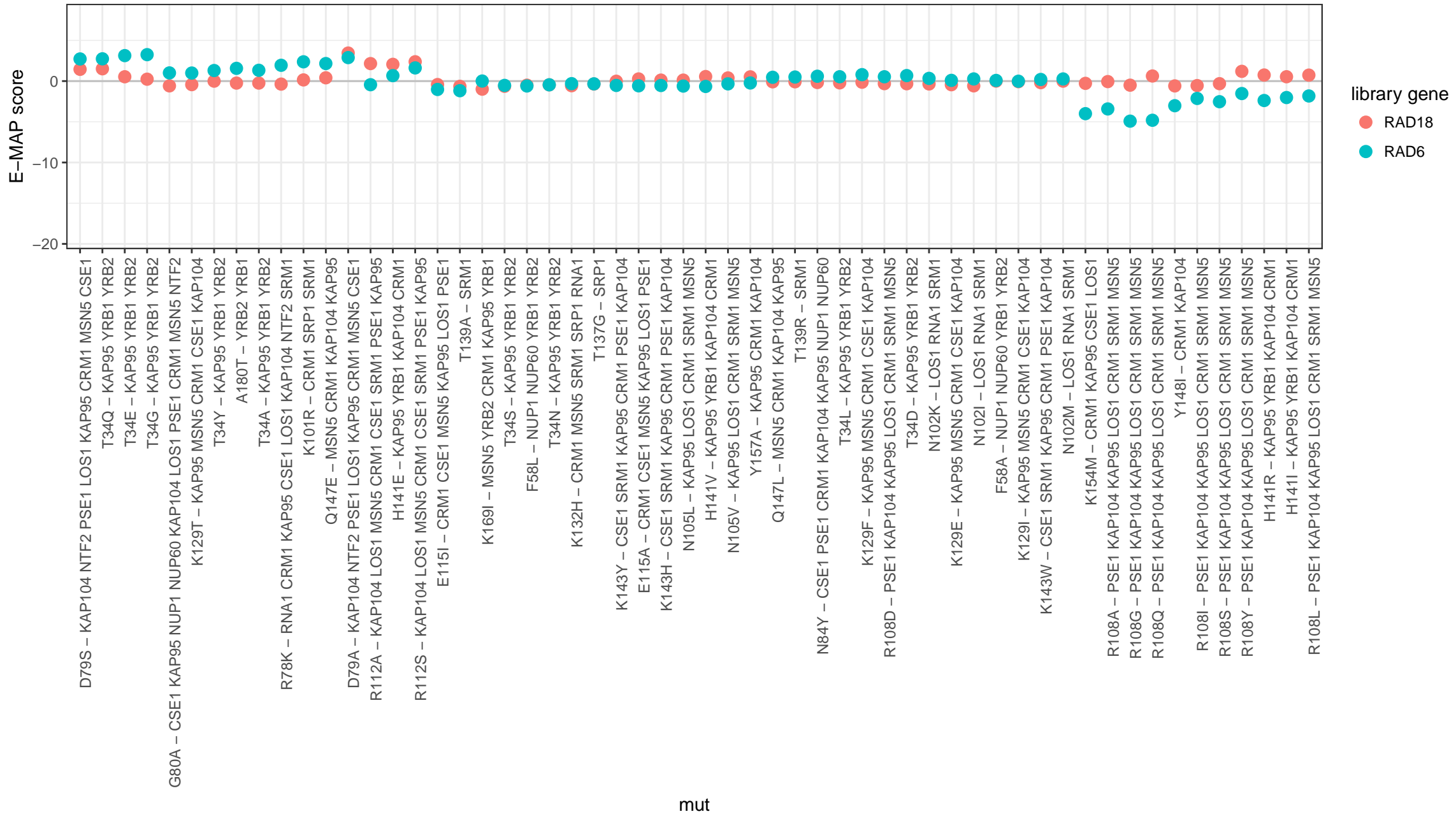
protein phosphatase type 2A complex (Rts1p)



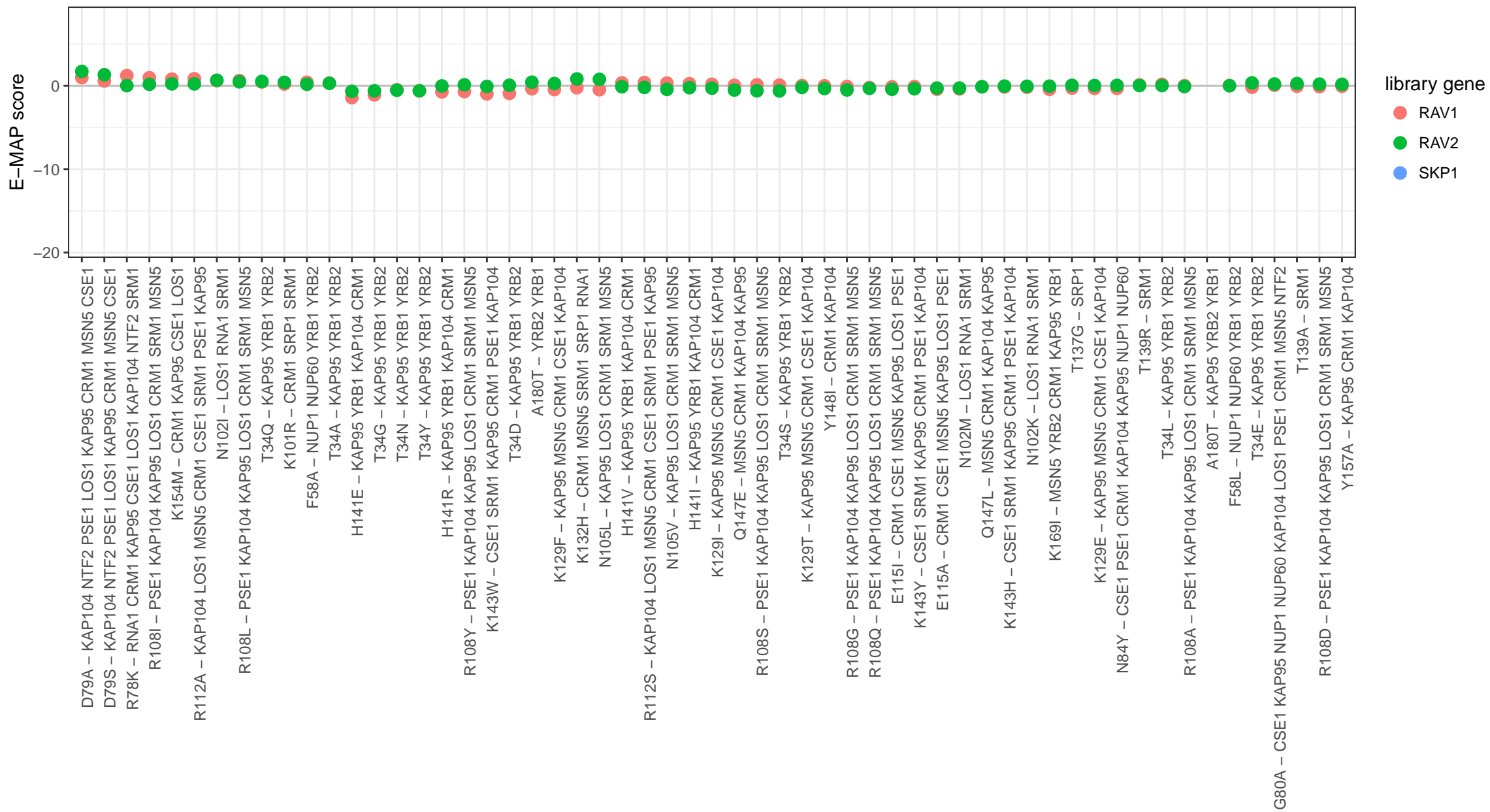
Rad17p/Ddc1p/Mec3p complex



Rad6p/Rad18p complex

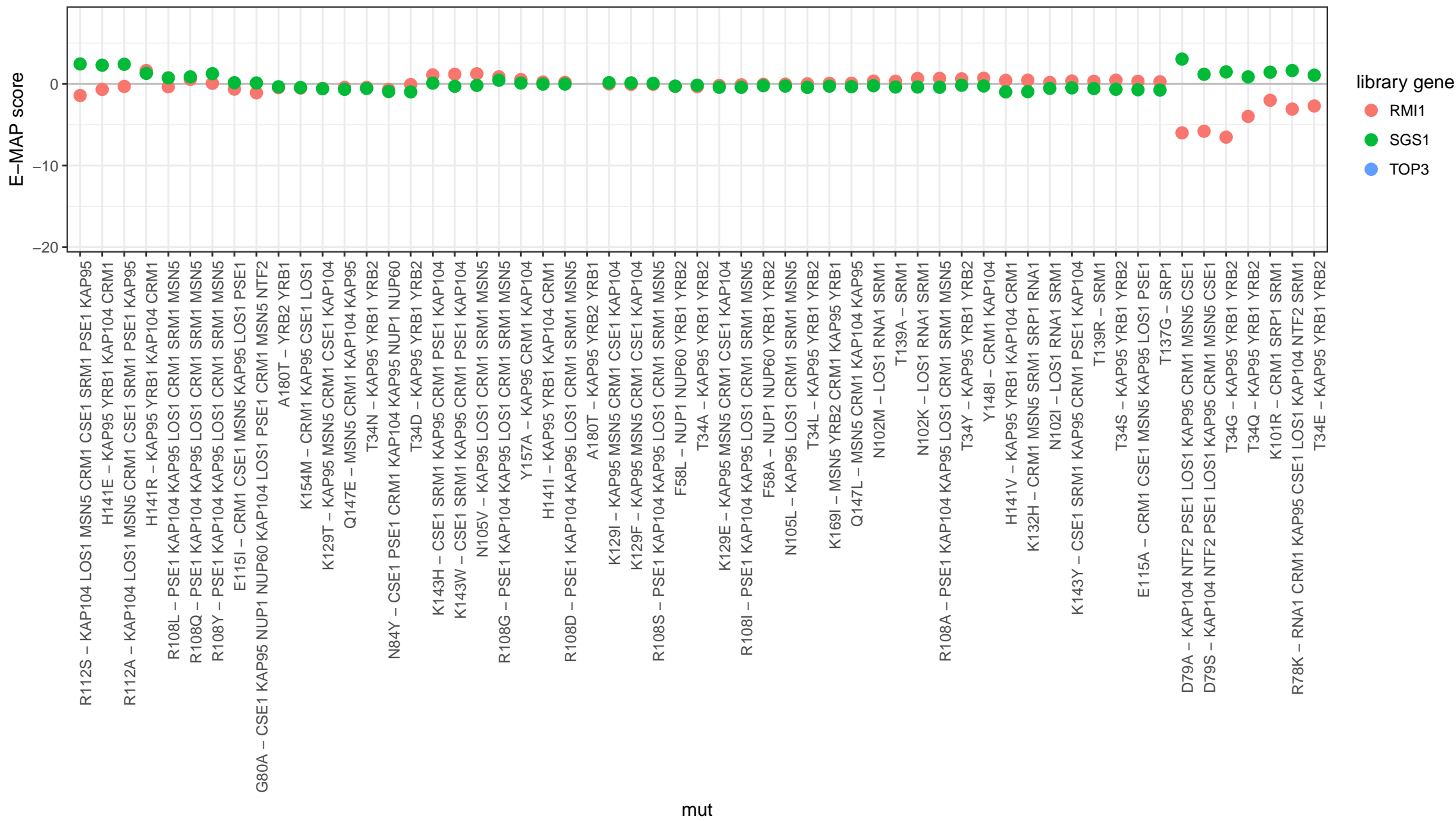


RAVE complex

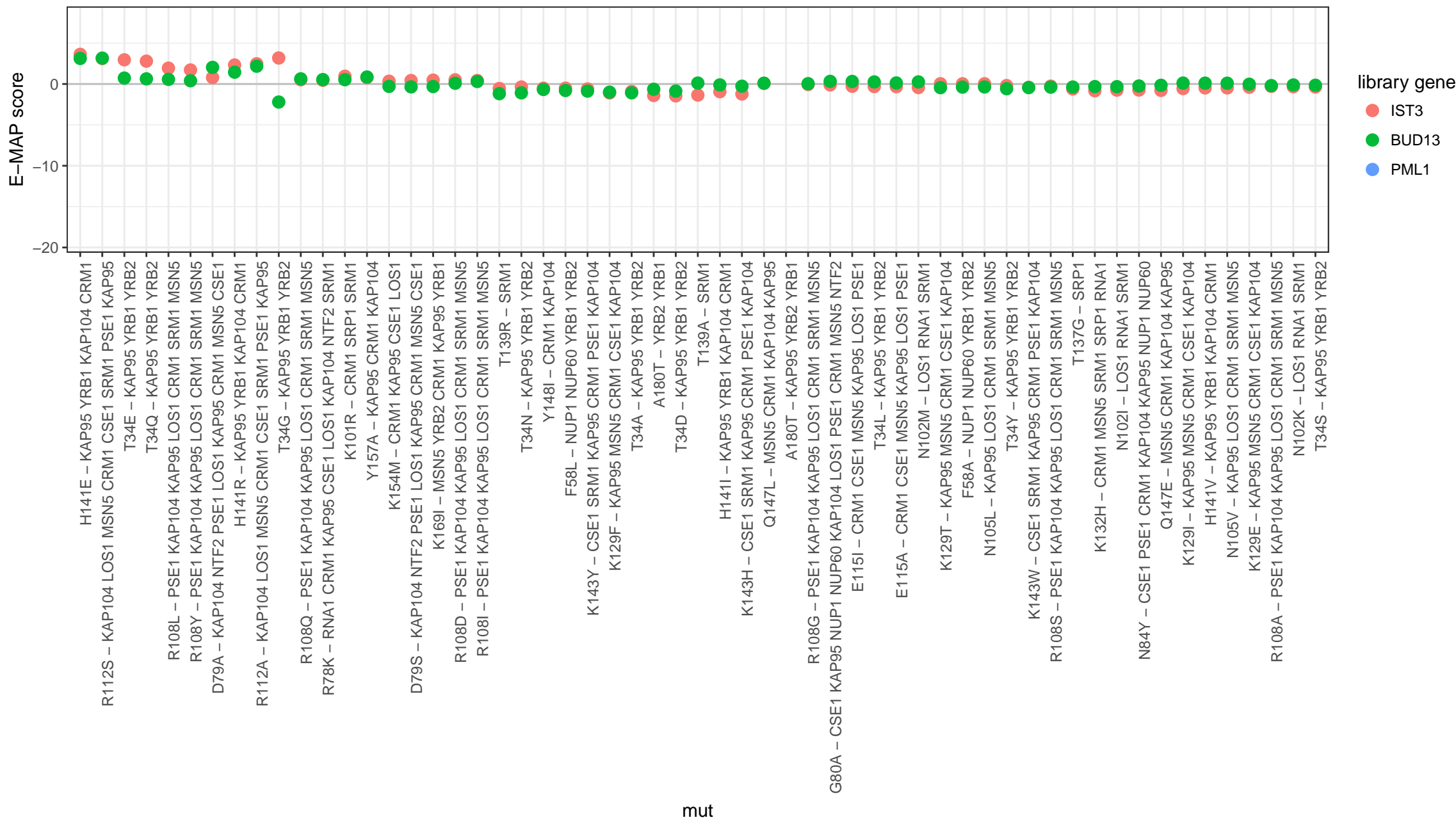


mut

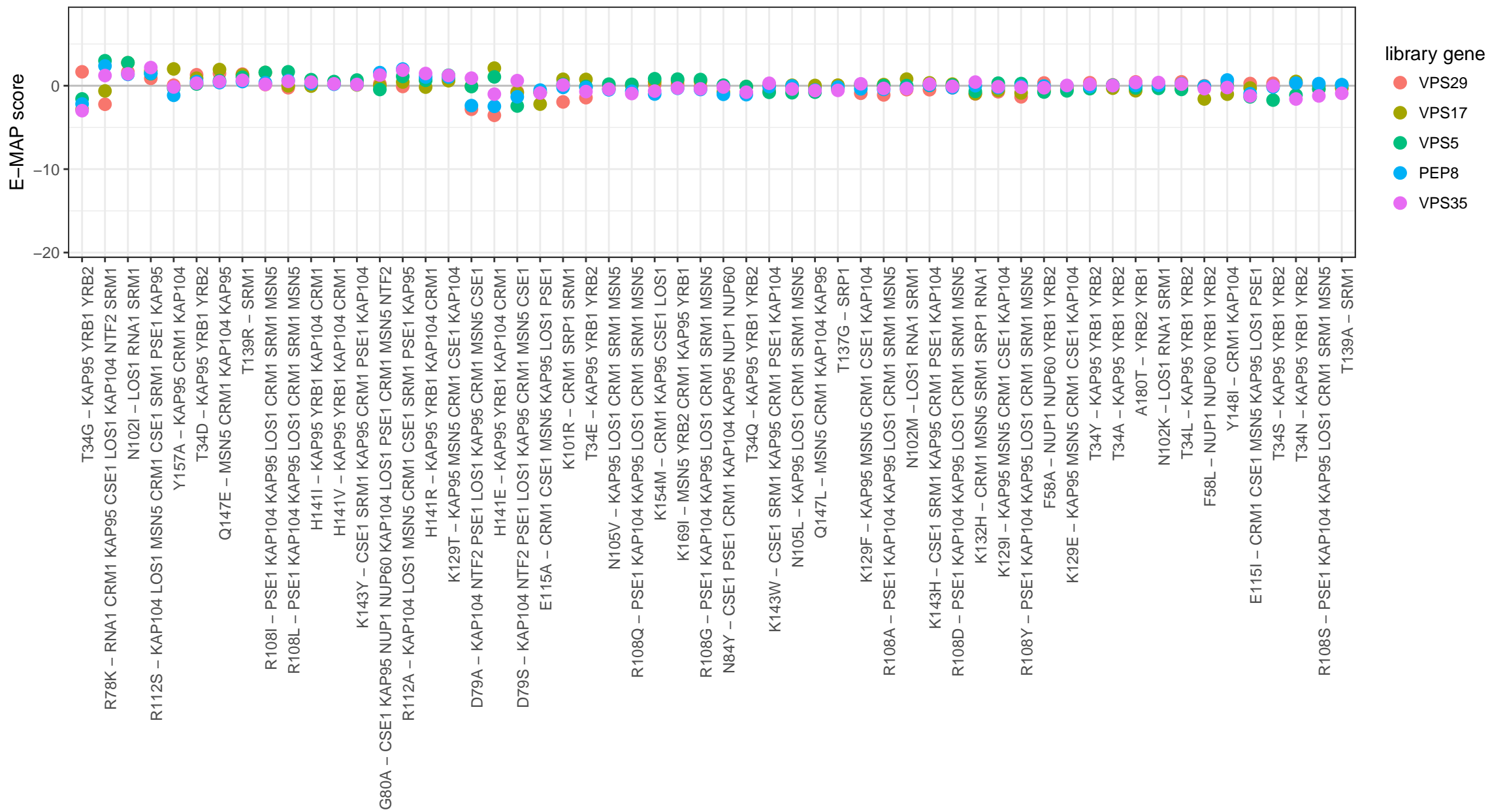
RecQ helicase–Topo III complex



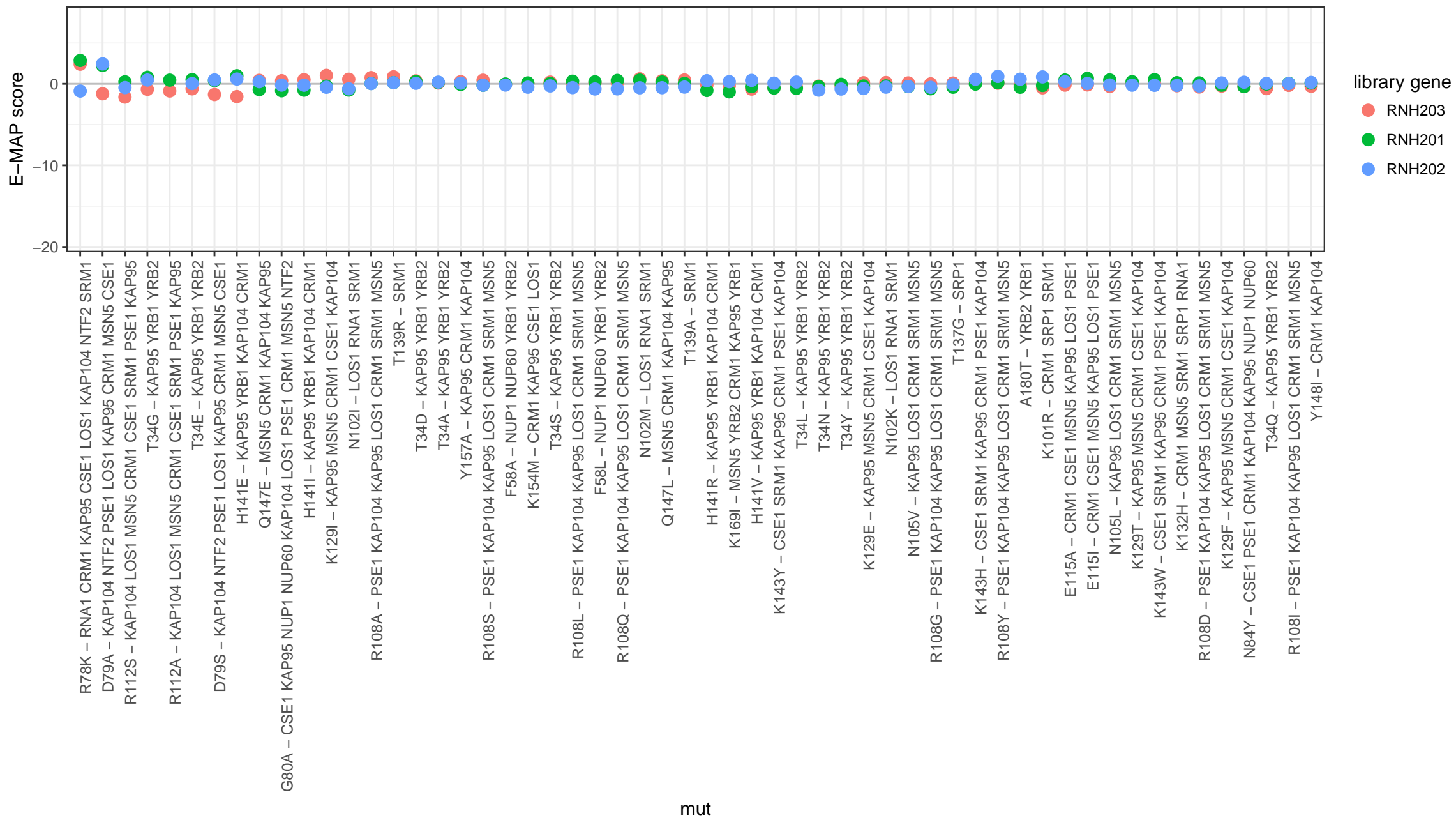
RES complex



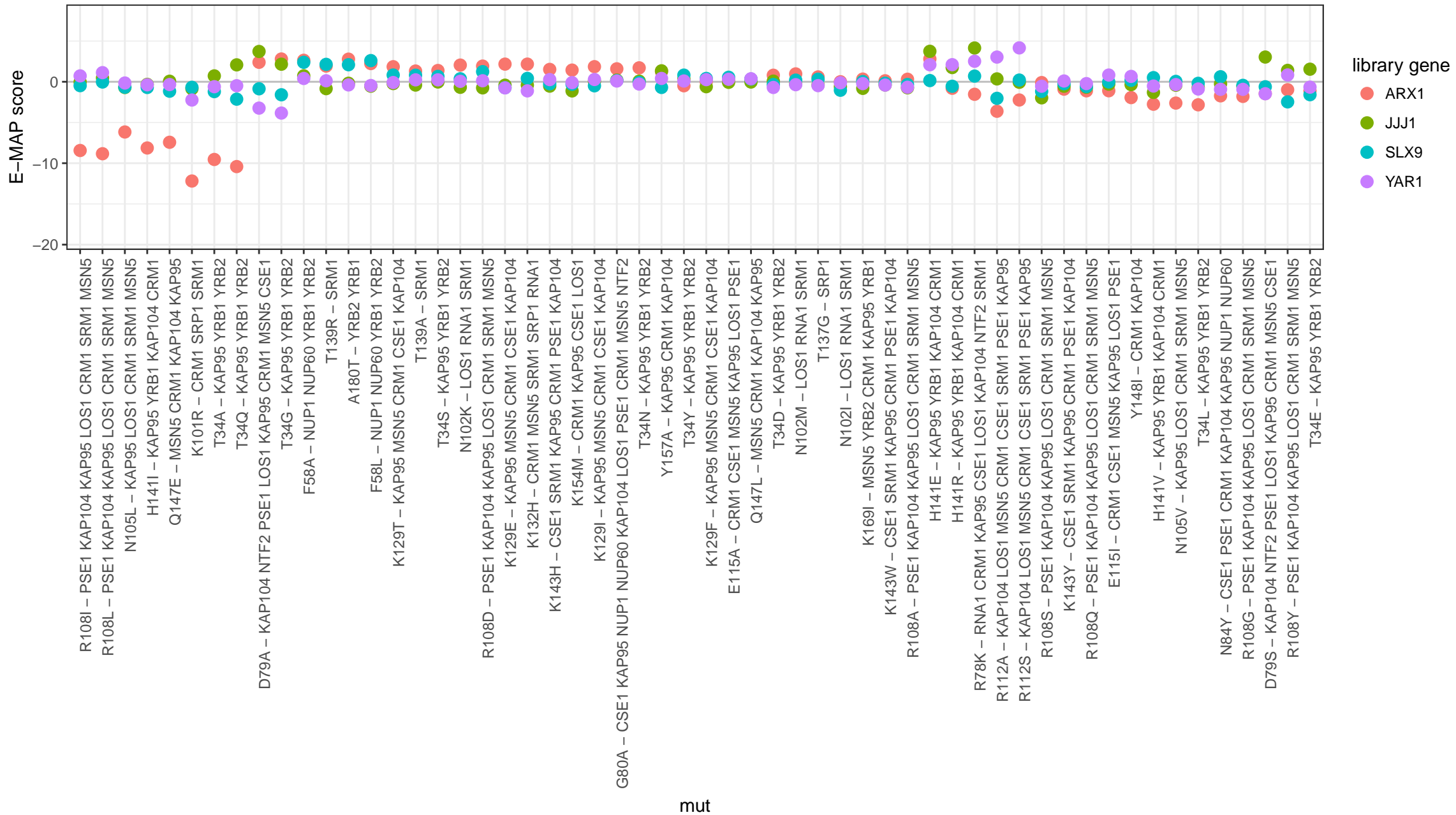
retromer complex



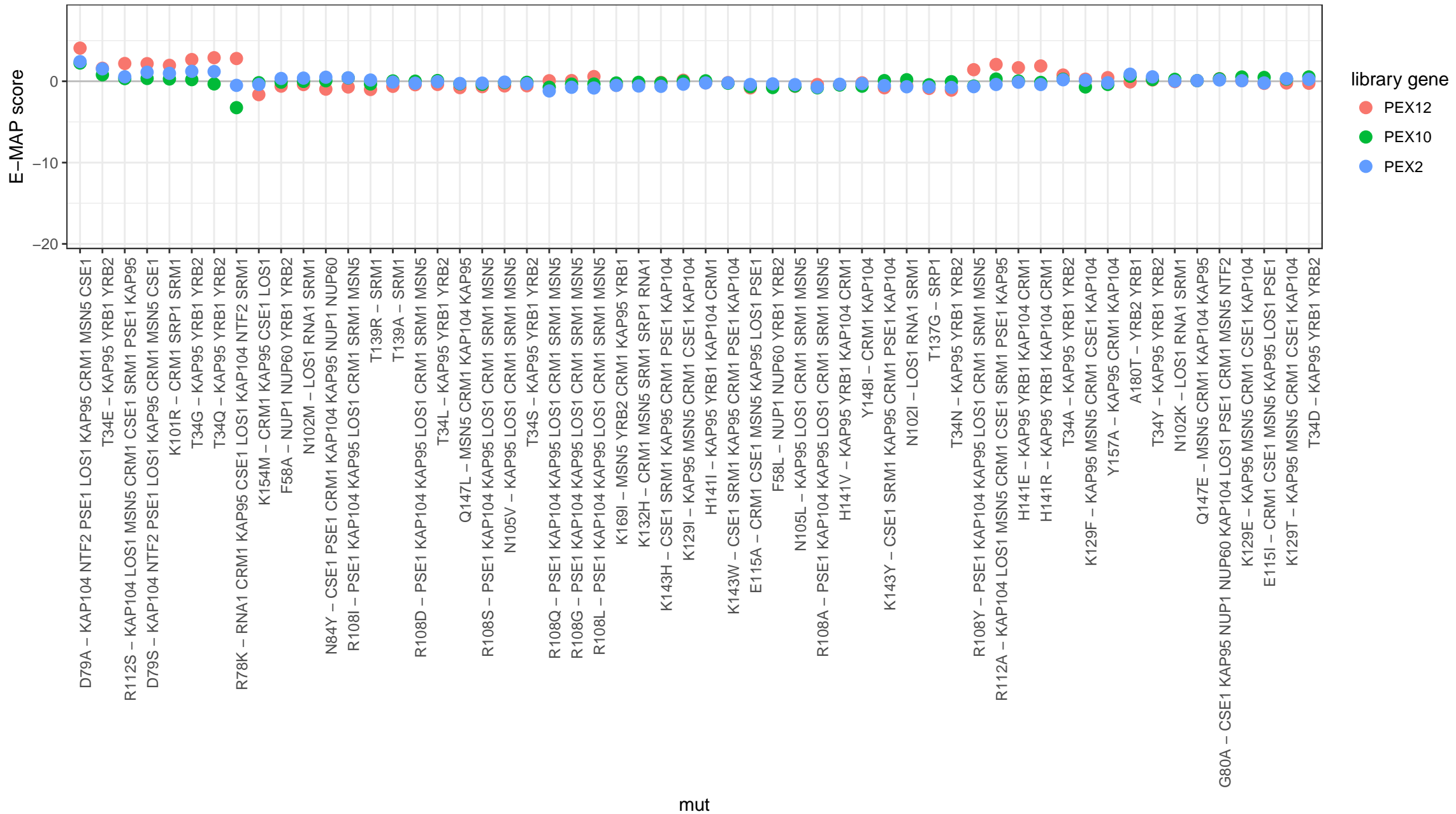
ribonuclease H2 complex



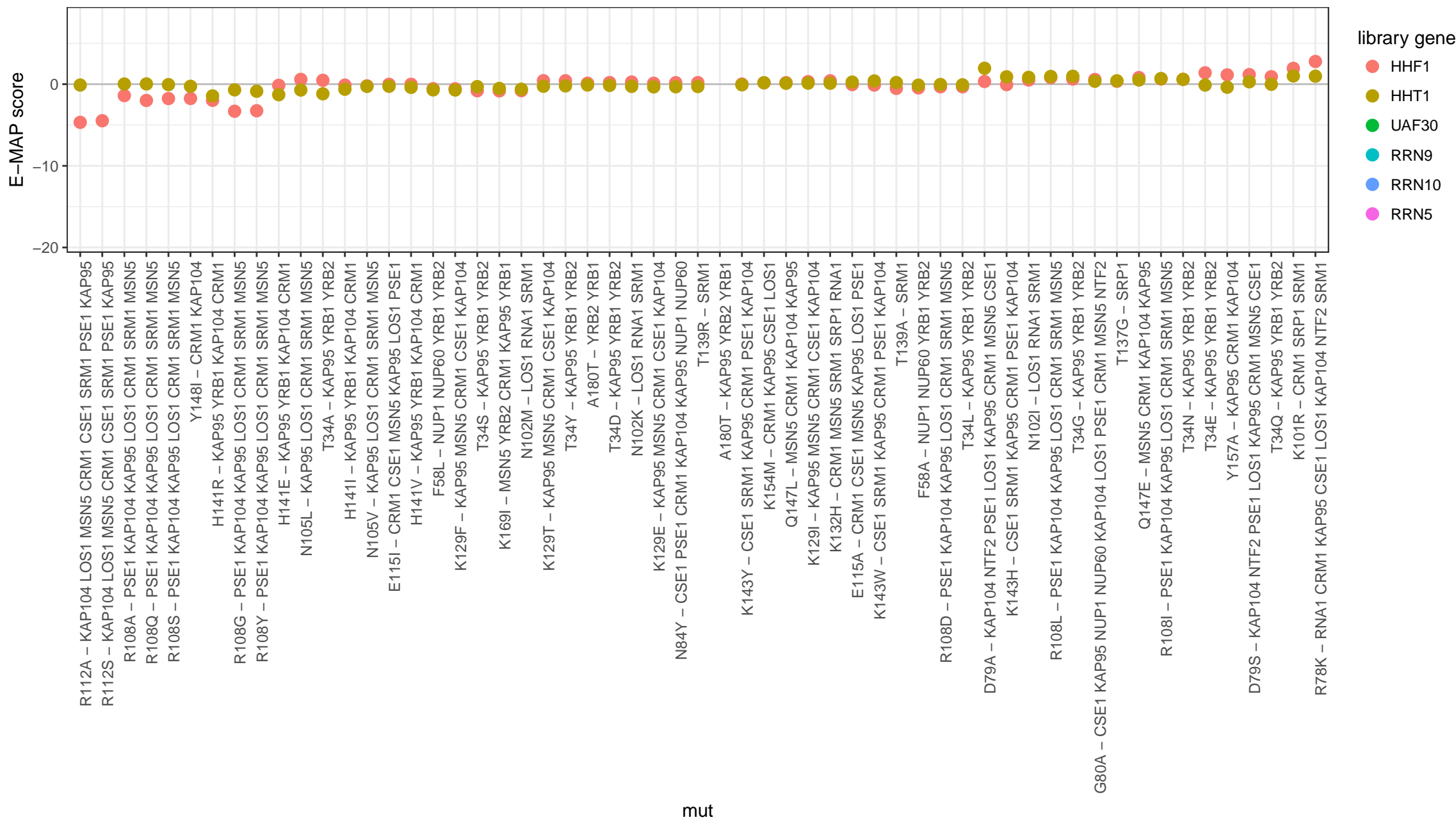
ribosomal subunit export from nucleus



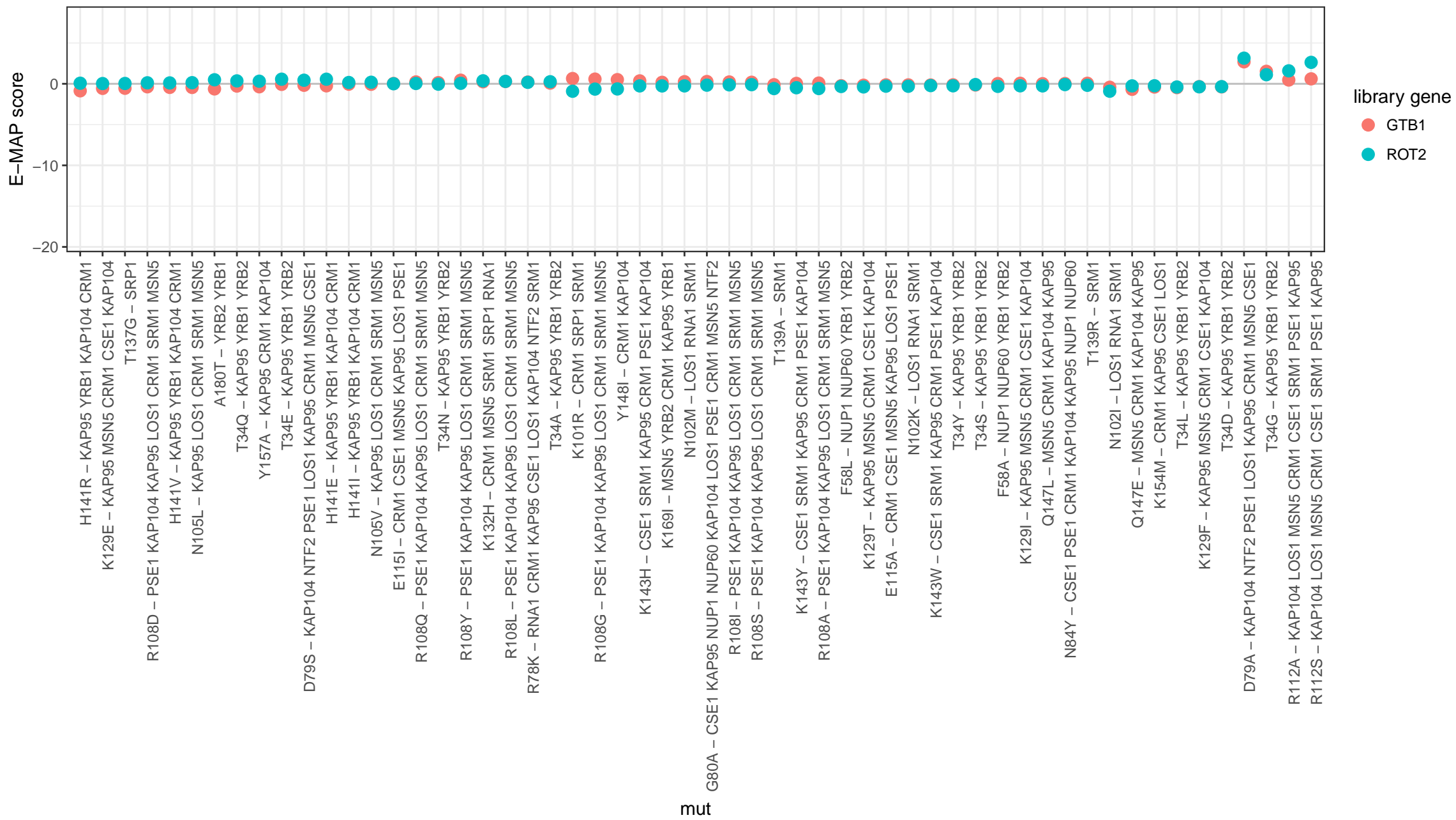
RING finger peroxin complex



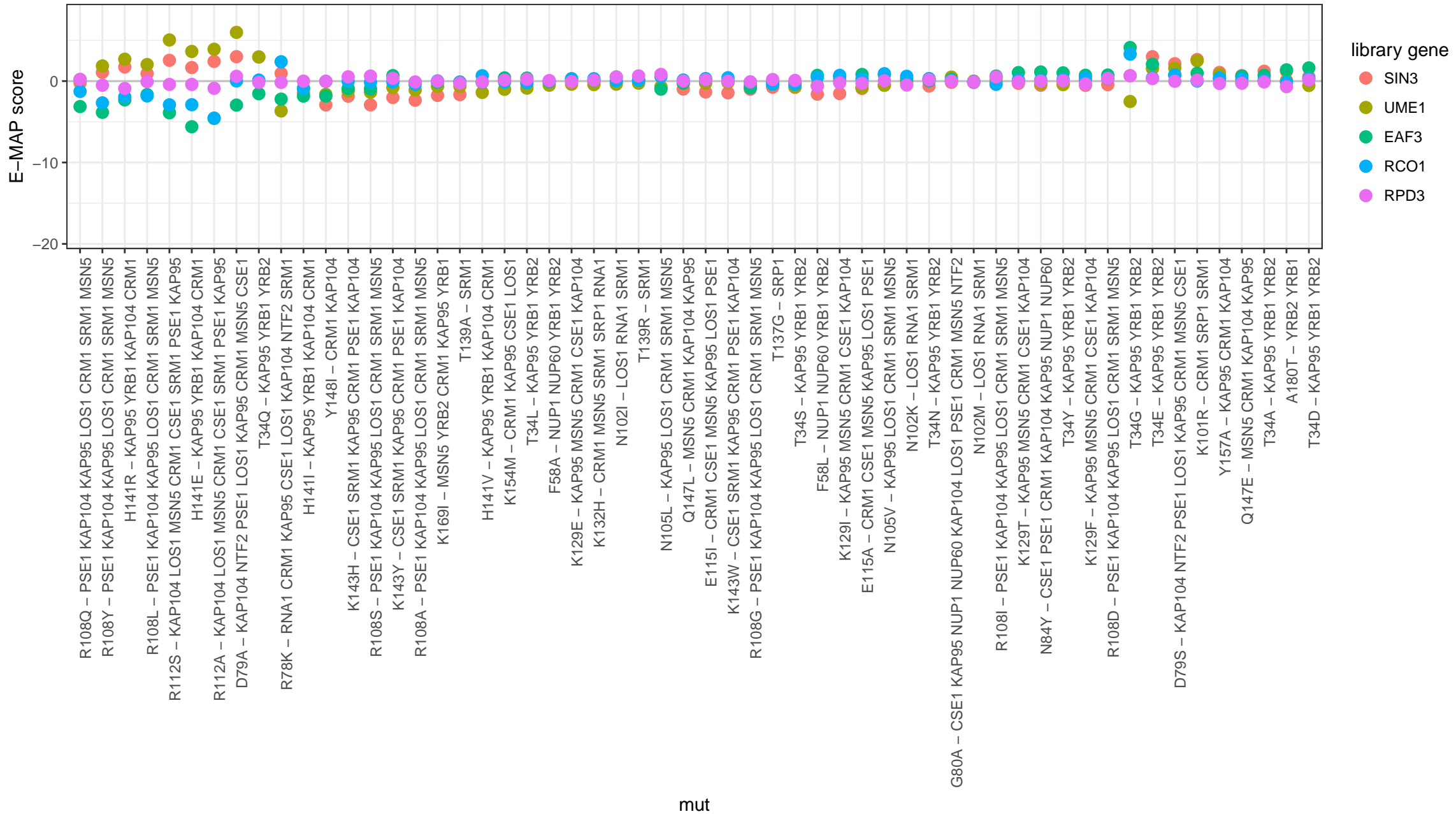
RNA polymerase I upstream activating factor complex



Rot2p/Gtb1p complex



Rpd3S complex



rRNA binding

E-MAP score

-20

-10

0

R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
H141E – KAP95 YRB1 KAP104 CRM1
T34E – KAP95 YRB1 YRB2
T34G – KAP95 YRB1 YRB2
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
H141R – KAP95 YRB1 KAP104 CRM1
K101R – CRM1 SRP1 SRM1
T34Q – KAP95 YRB1 YRB2
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
Y148I – CRM1 KAP104
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34N – KAP95 YRB1 YRB2
A180T – YRB2 YRB1
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
T34L – KAP95 YRB1 YRB2
N102K – LOS1 RNA1 SRM1
N102M – LOS1 RNA1 SRM1
F58A – NUP1 NUP60 YRB1 YRB2
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
K154M – CRM1 KAP95 CSE1 LOS1
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
H141V – KAP95 YRB1 KAP104 CRM1
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
T34Y – KAP95 YRB1 YRB2
Q147L – MSN5 CRM1 KAP104 KAP95
T34D – KAP95 YRB1 YRB2
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T137G – SRP1
F58L – NUP1 NUP60 YRB1 YRB2
T34S – KAP95 YRB1 YRB2
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
T139R – SRM1
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T139A – SRM1
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
H141I – KAP95 YRB1 KAP104 CRM1
N102I – LOS1 RNA1 SRM1
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
Q147E – MSN5 CRM1 KAP104 KAP95
T34A – KAP95 YRB1 YRB2
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
Y157A – KAP95 CRM1 KAP104

mut

library gene

MRT4

SSF1

NOP6

SSF2

RSC complex

E-MAP score

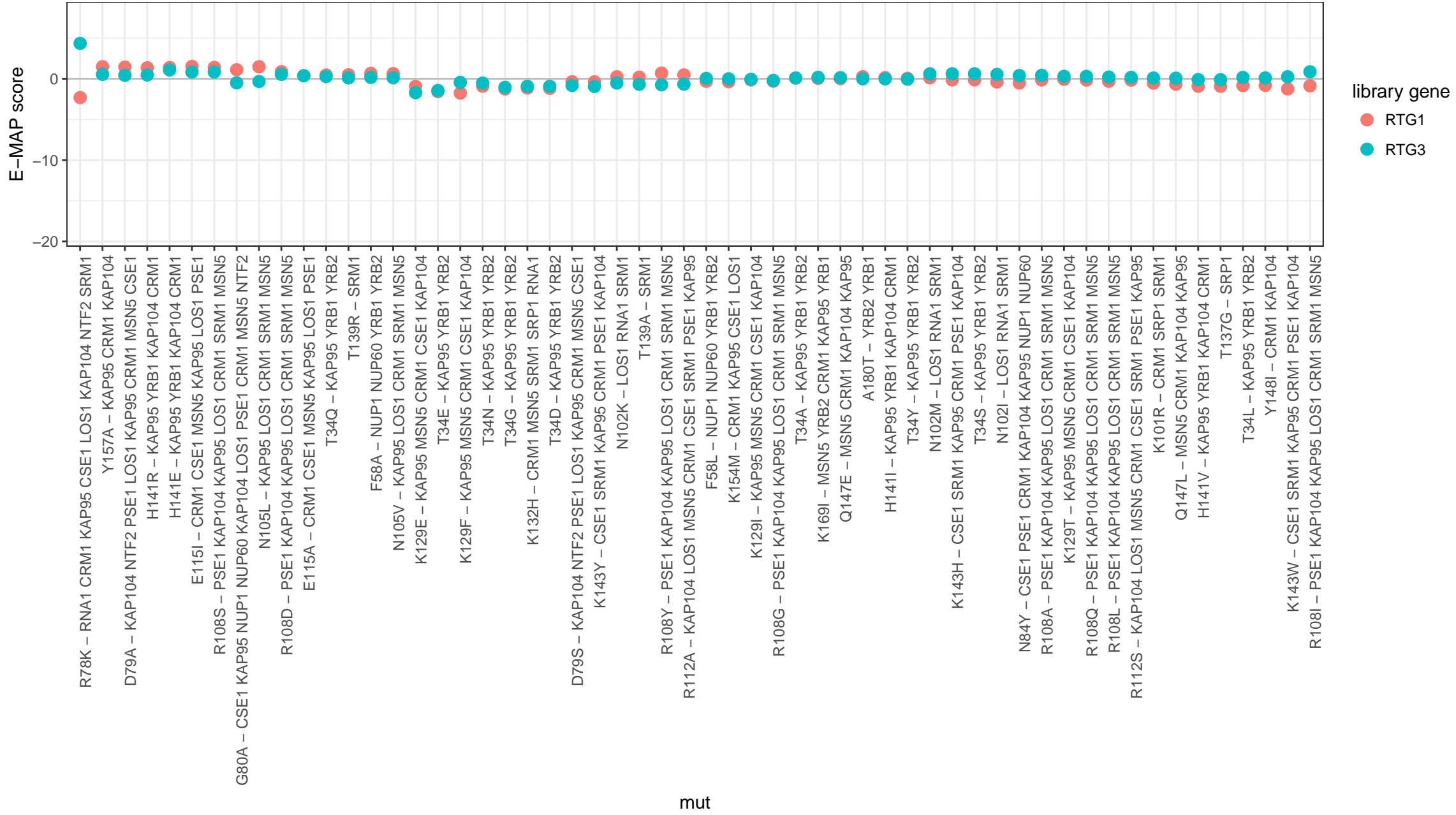
0
-10
-20

mut

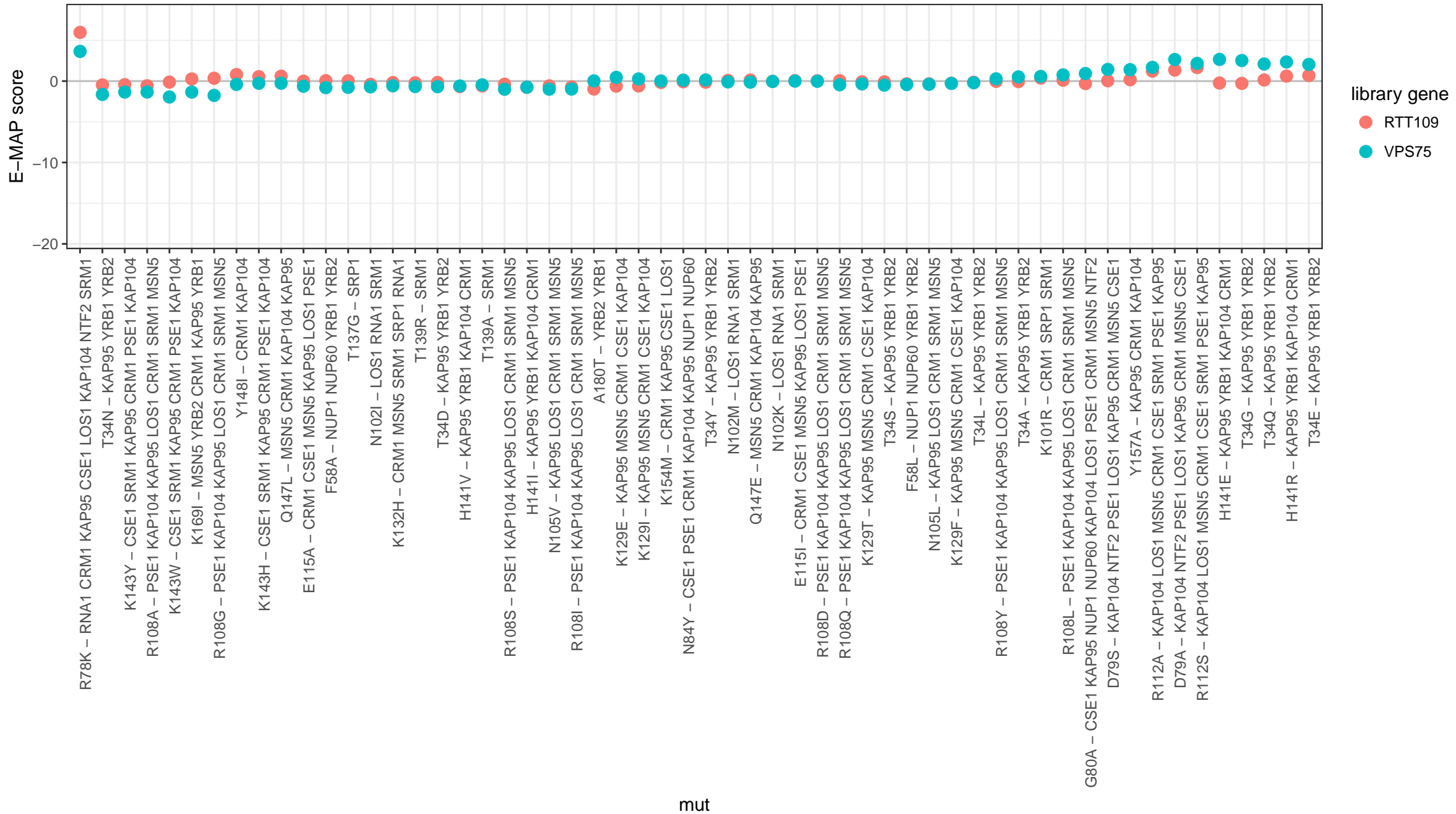


- CRM1
- SFH1
- RSC9
- RSC8
- RSC6
- RSC58
- RSC4
- RSC30
- RSC3
- RSC2
- NPL6
- LDB7
- HTL1
- ARP7
- ARP9

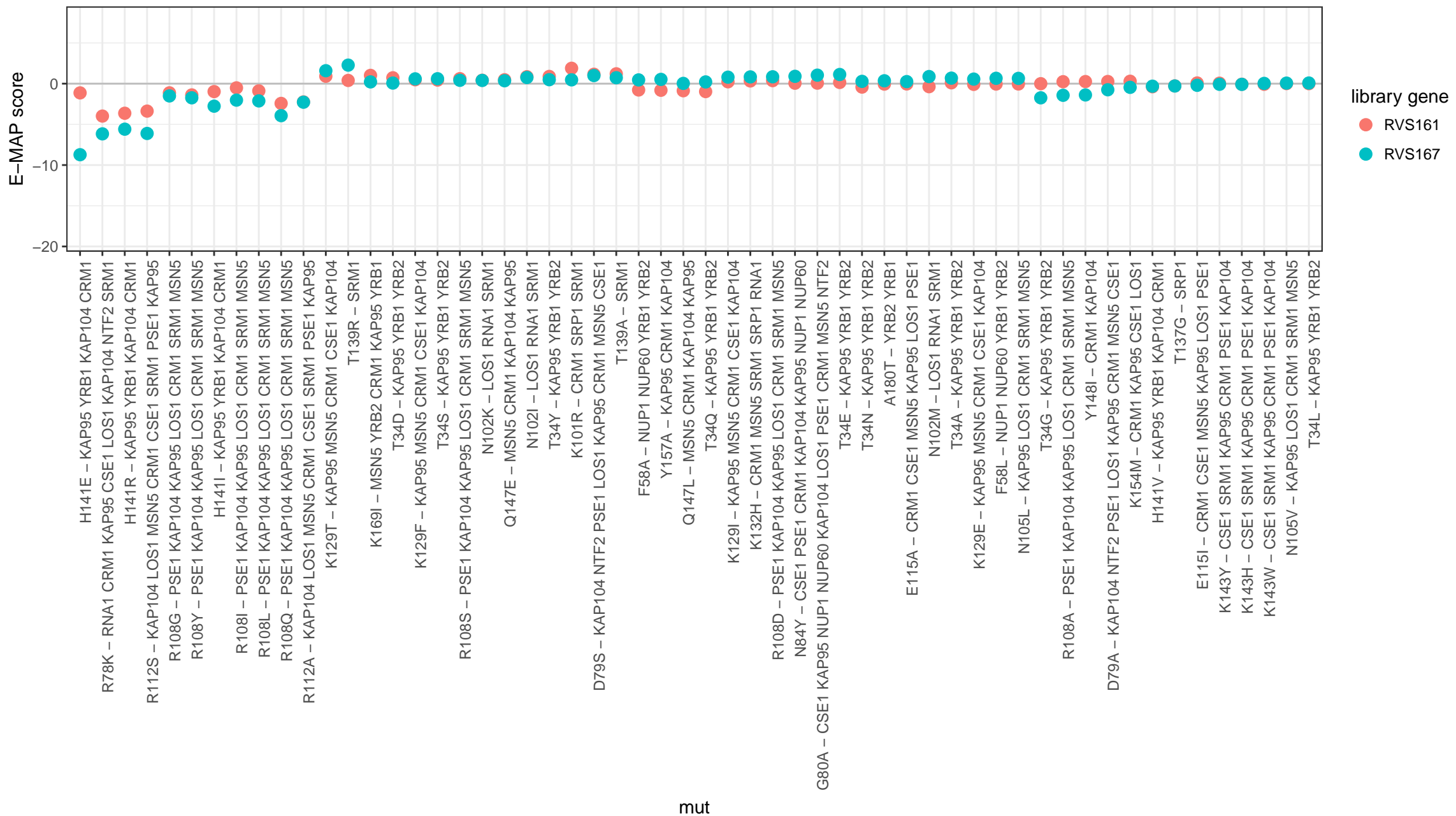
Rtg1p/Rtg3p complex



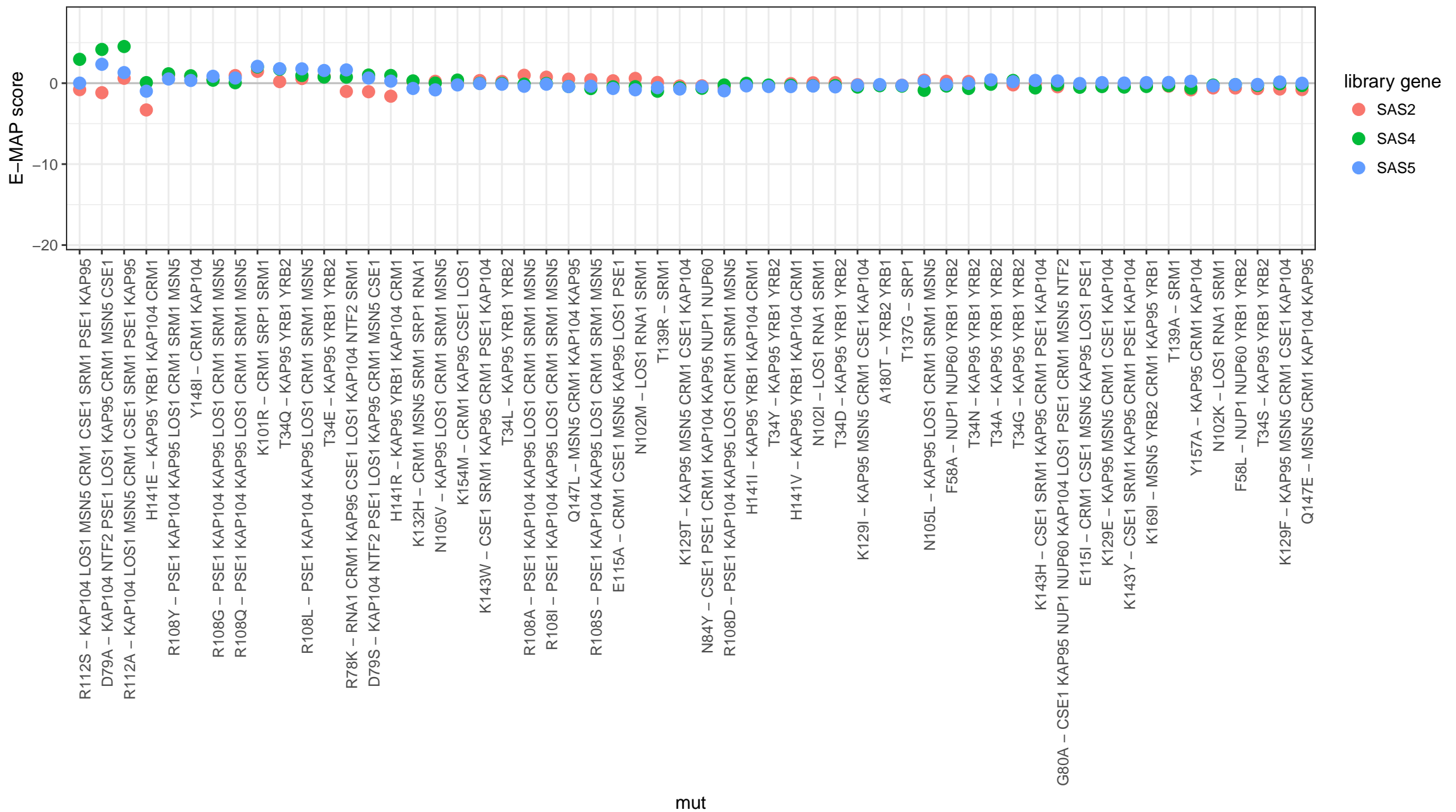
Rtt109p/Vps75p complex



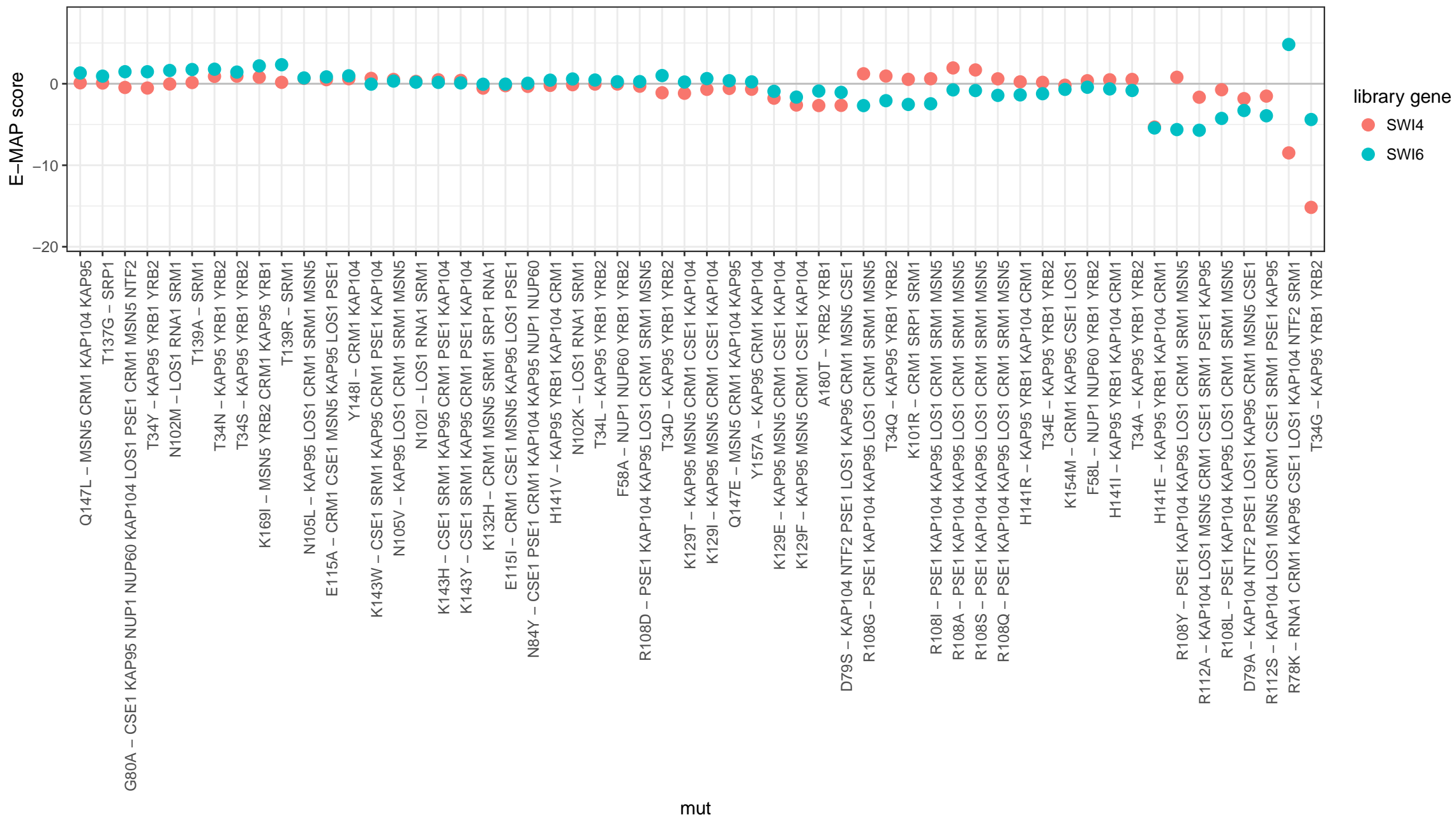
Rvs161p/Rvs167p complex



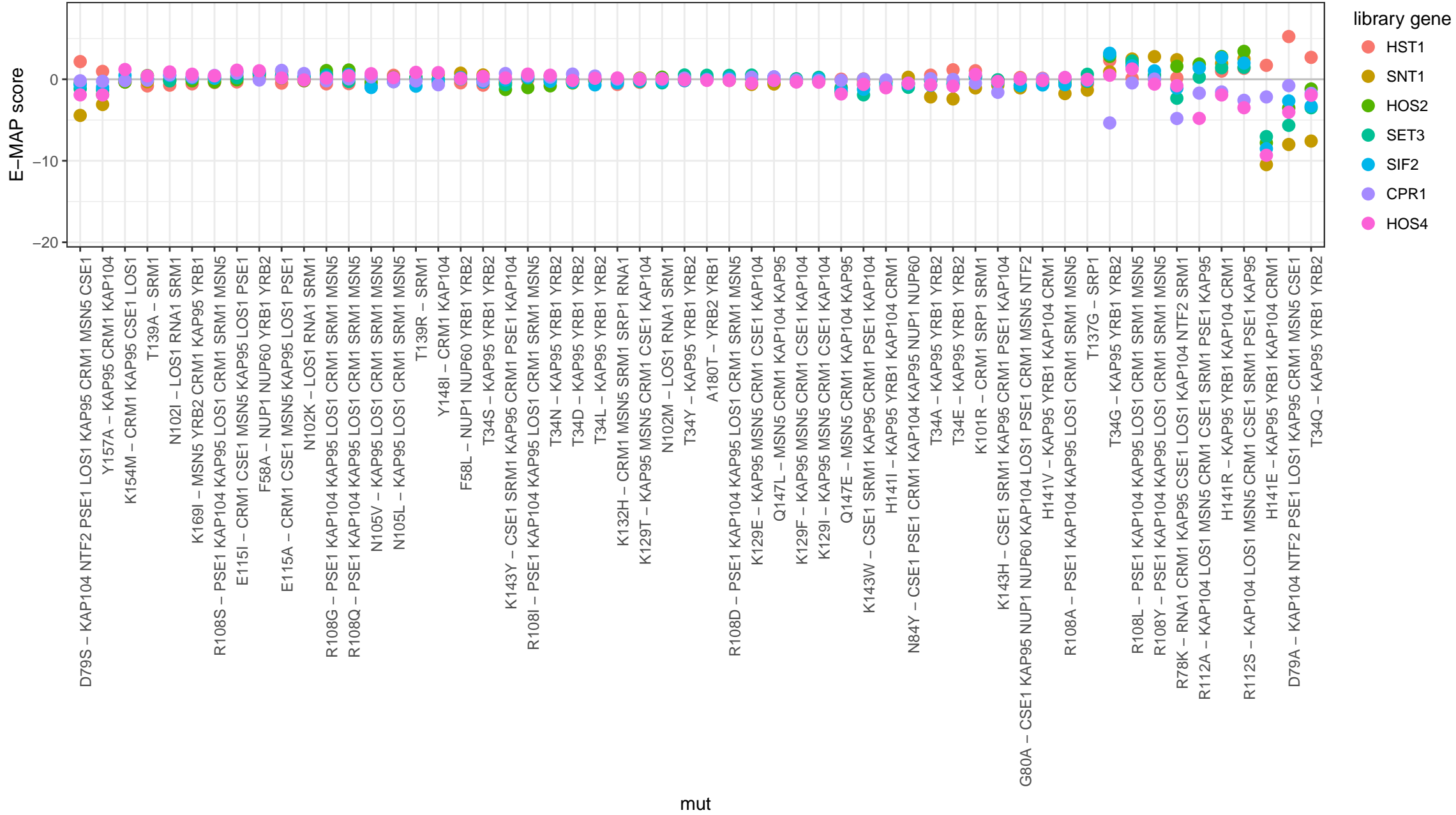
SAS Complex



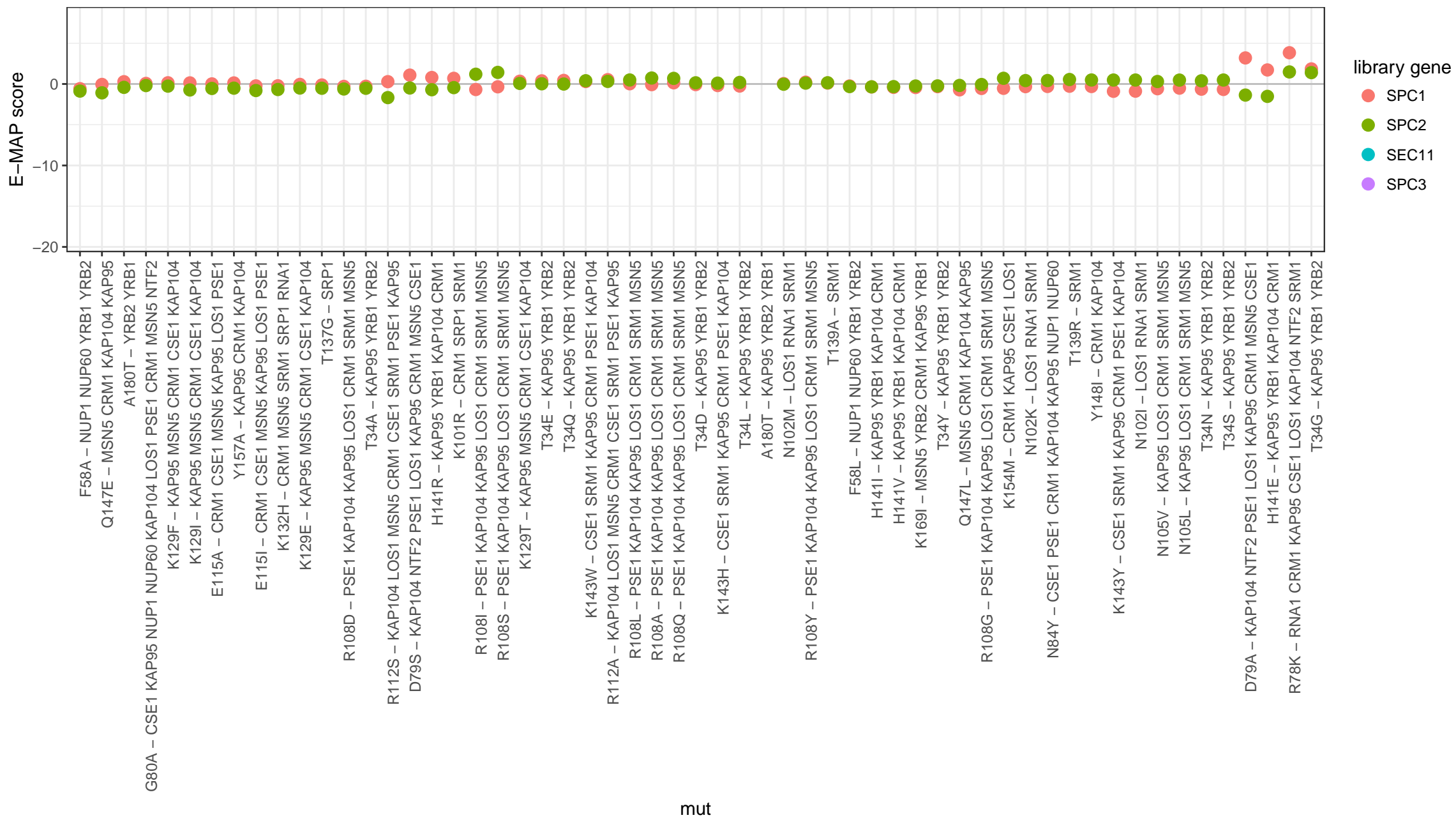
SBF complex



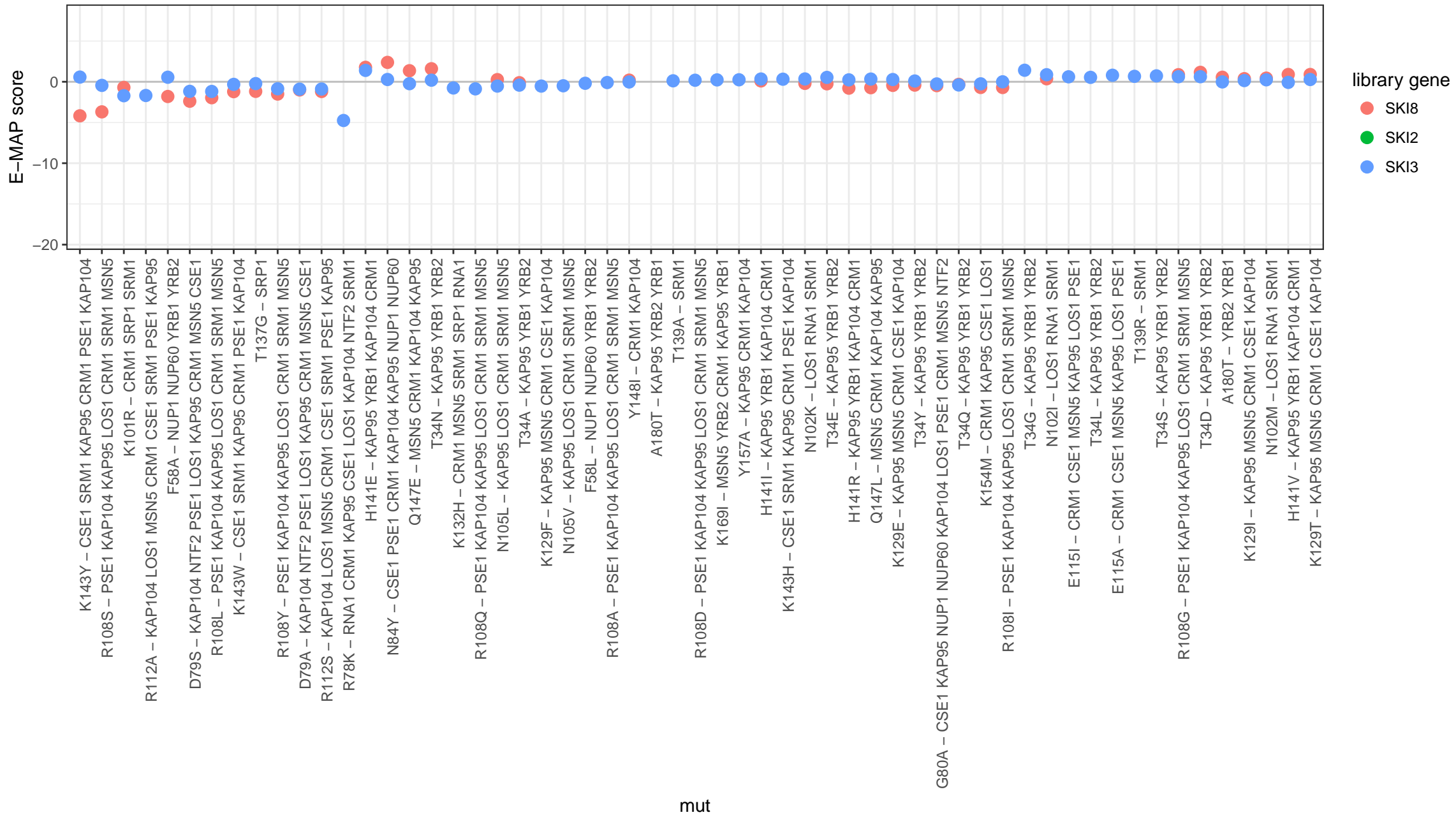
Set3p complex



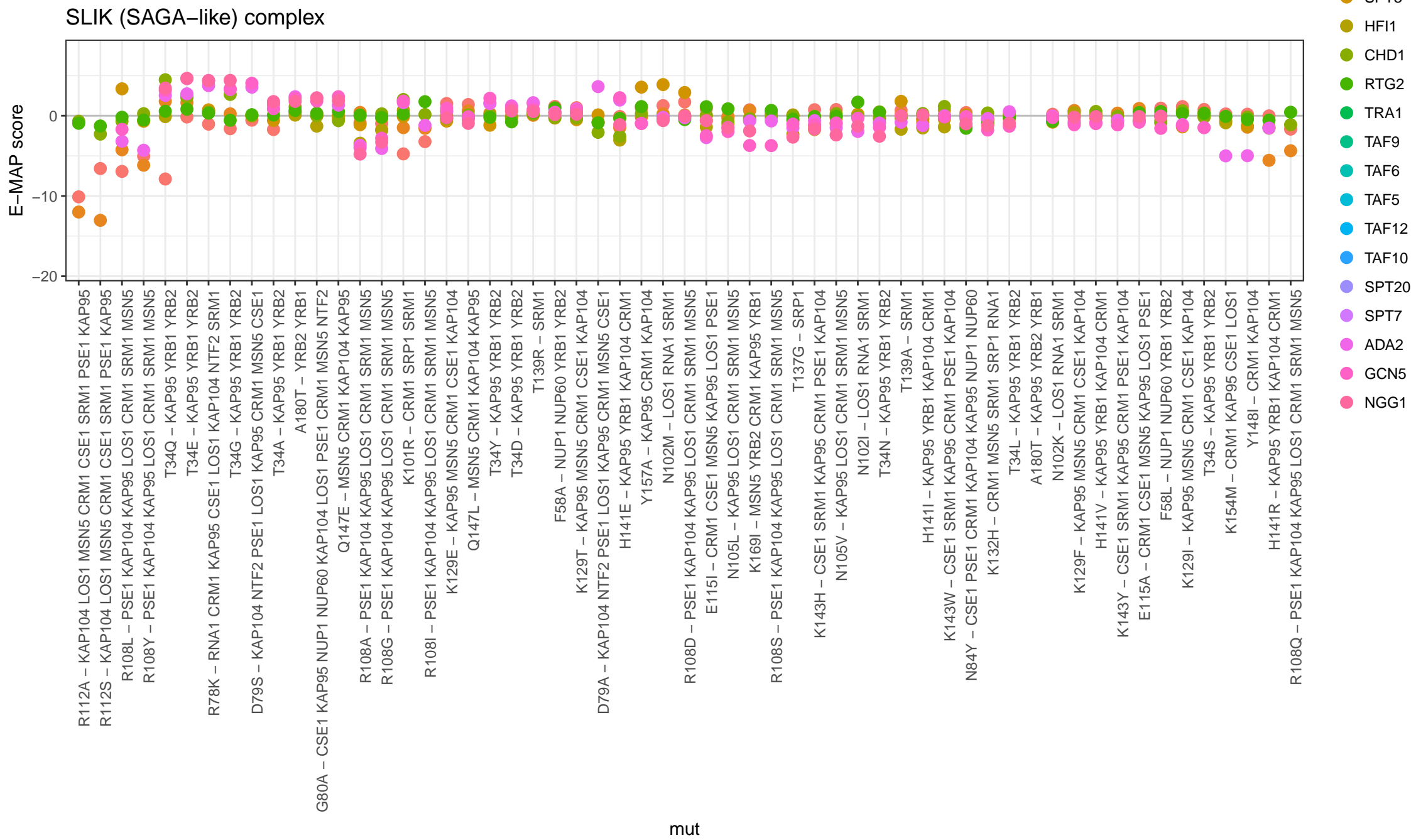
signal peptidase complex



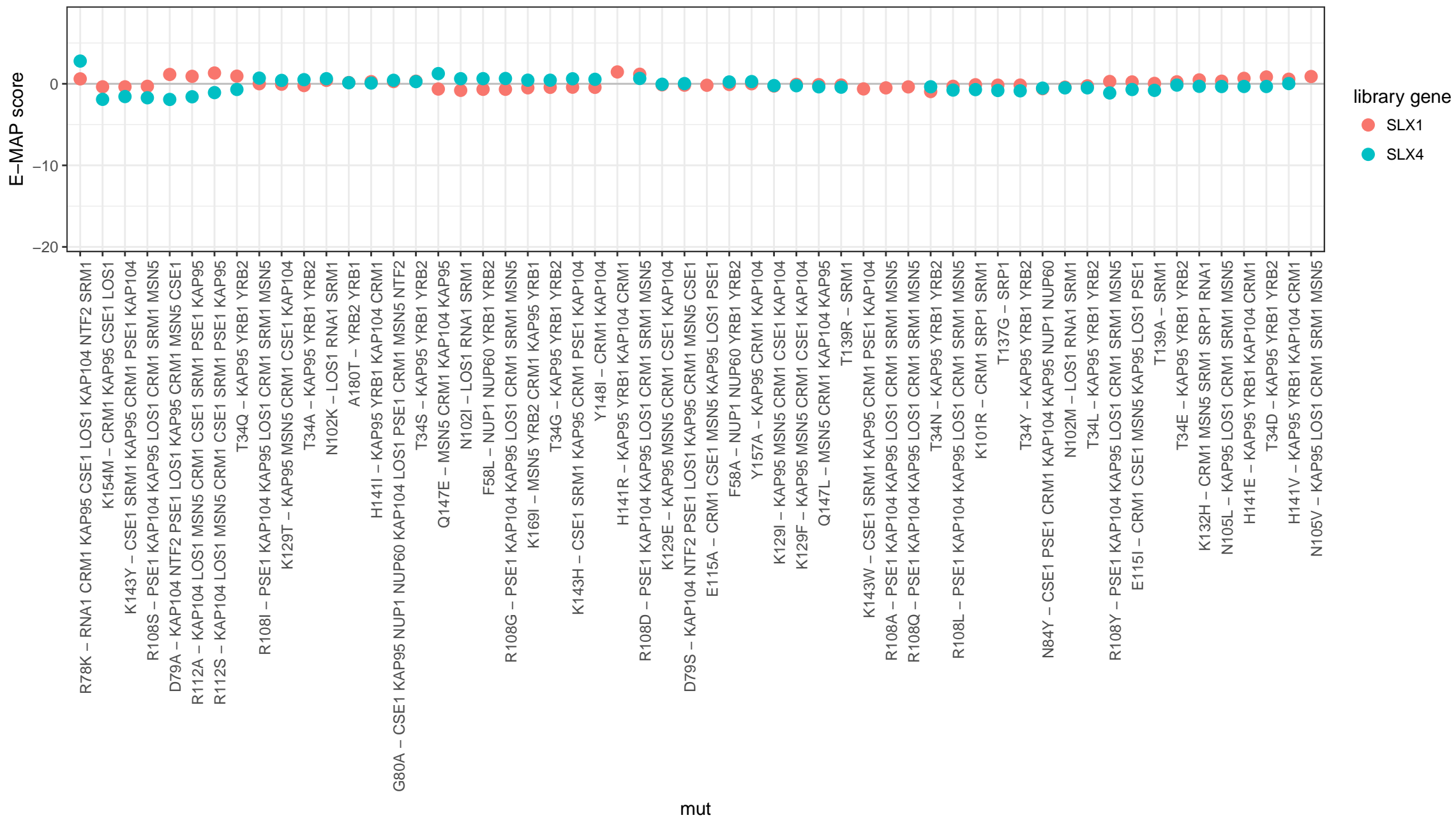
Ski Complex



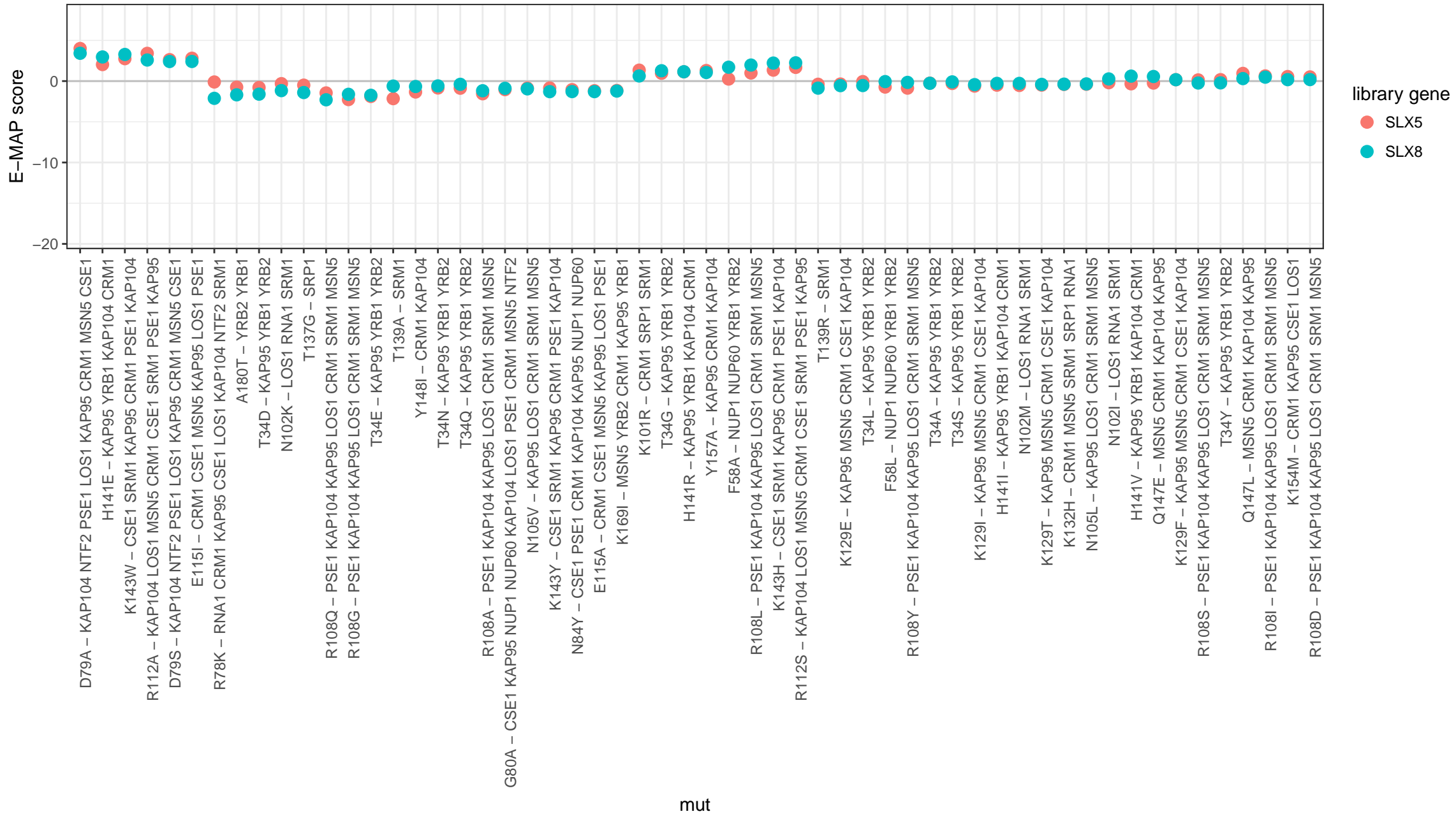
SLIK (SAGA-like) complex



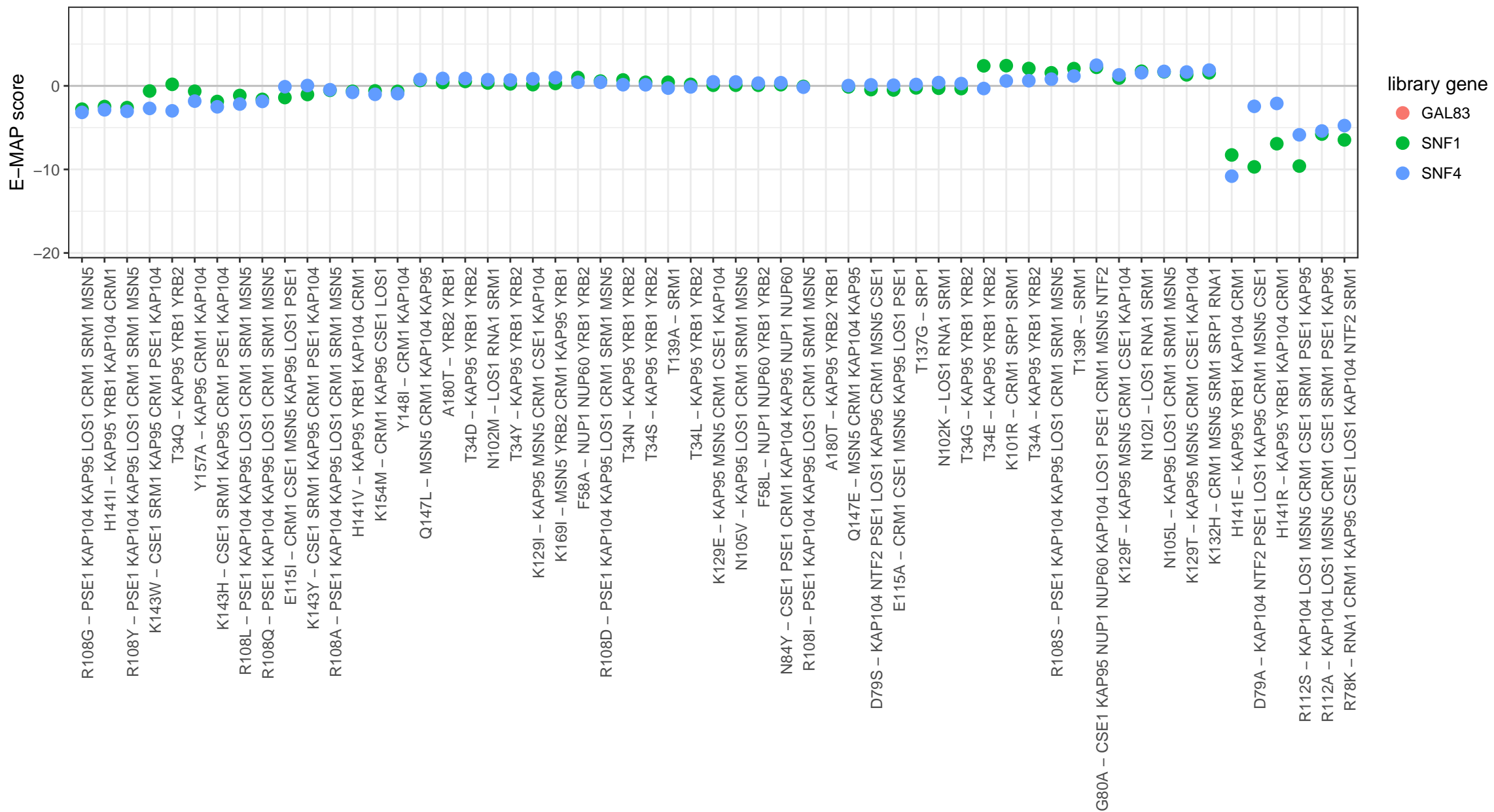
Slx1p/Slx4p complex



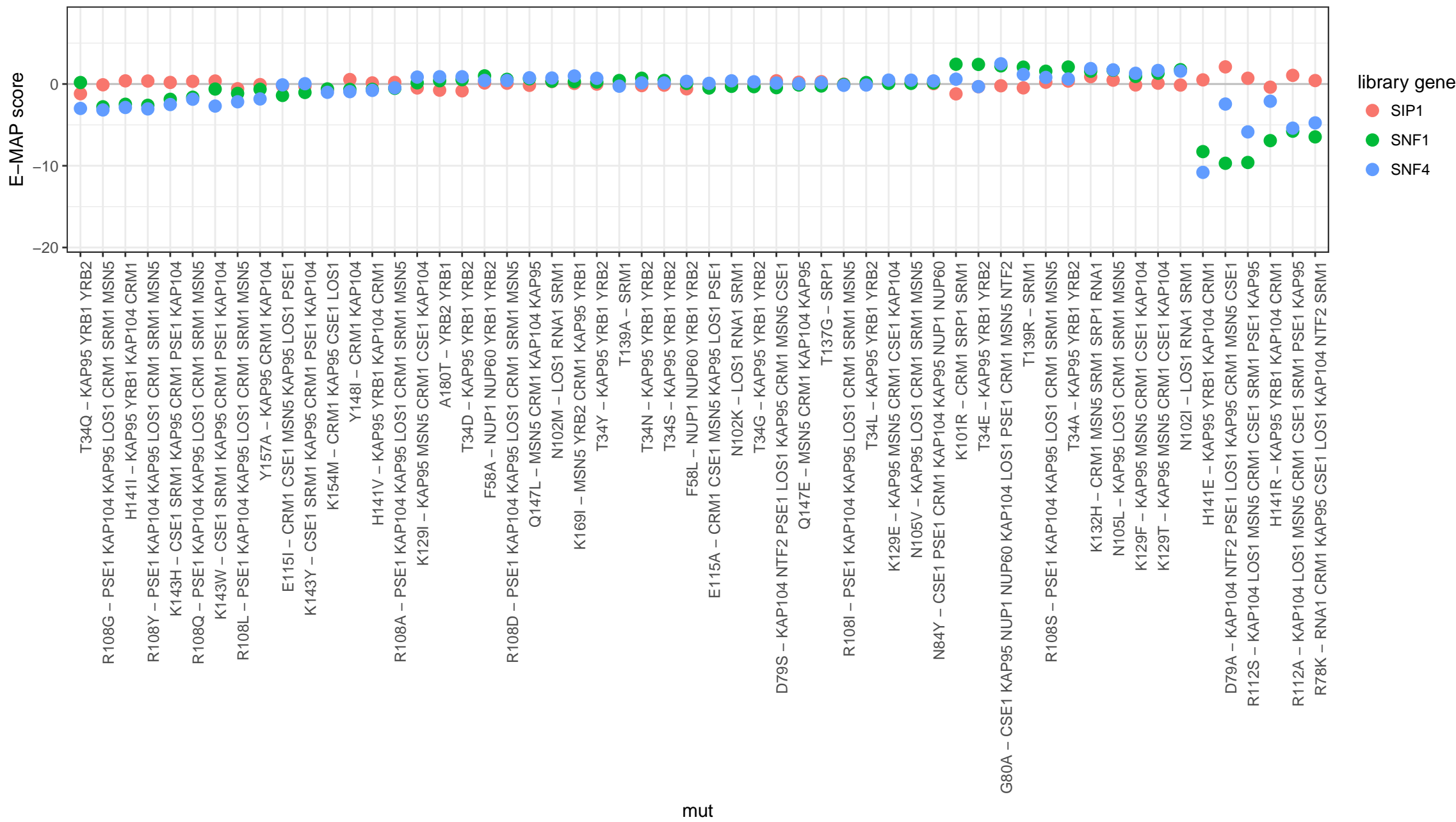
Slx5p/Slx8p complex



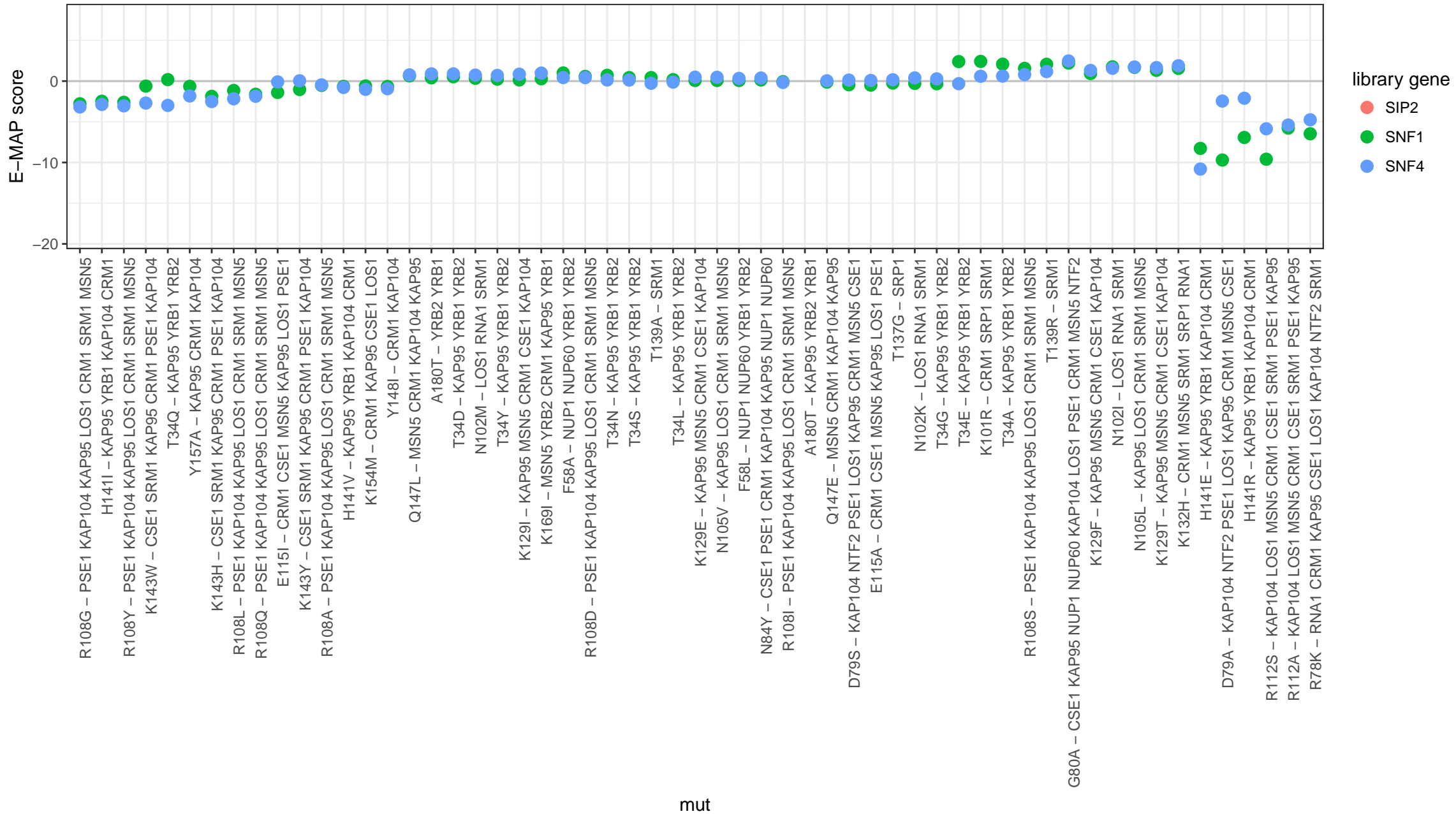
Snf1p/Snf4p/Gal83p complex



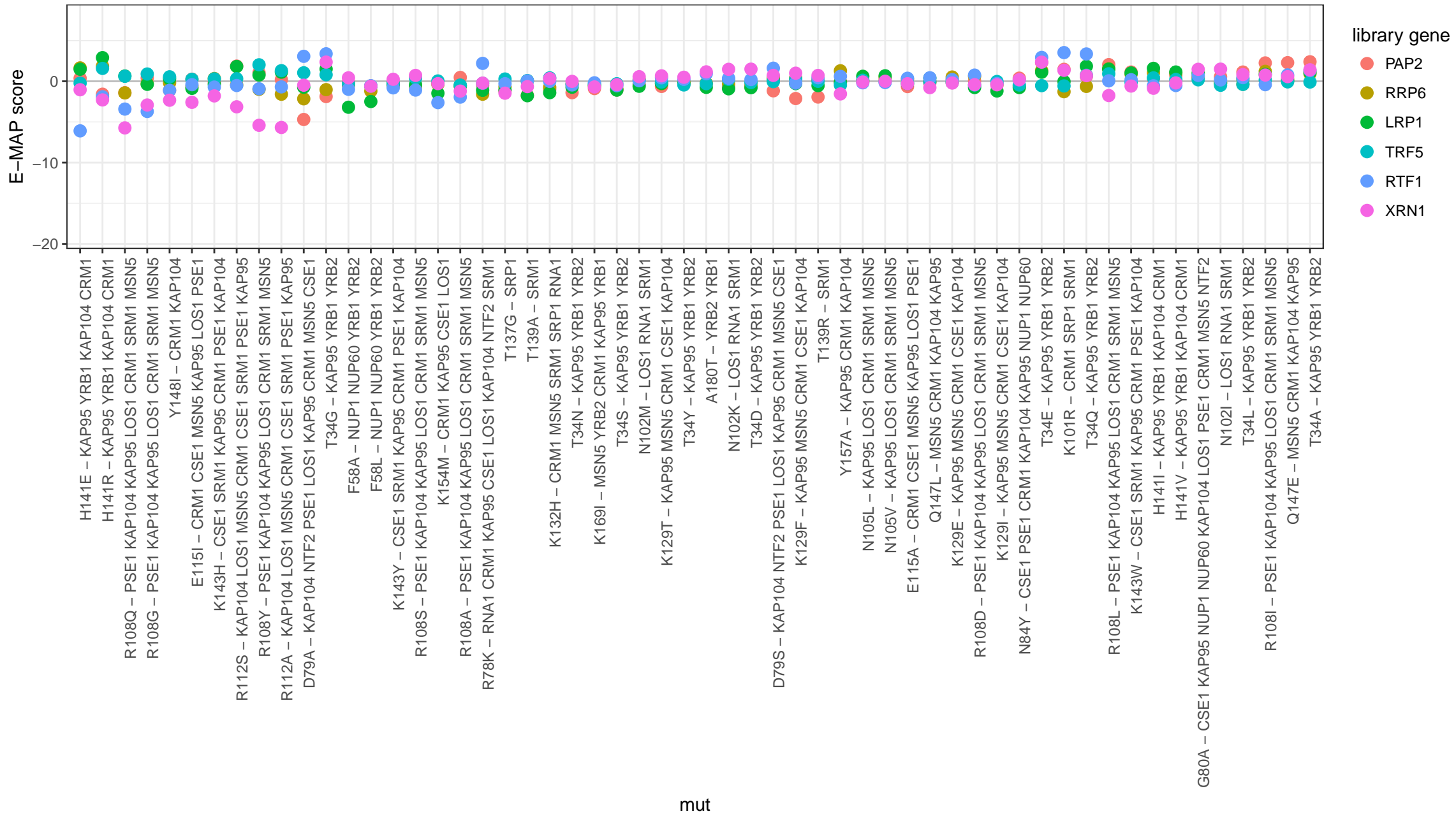
Snf1p/Snf4p/Sip1p complex



Snf1p/Snf4p/Sip2p complex



snoRNA processing



Sum1p/Rfm1p/Hst1p complex

E-MAP score

-20

-10

0

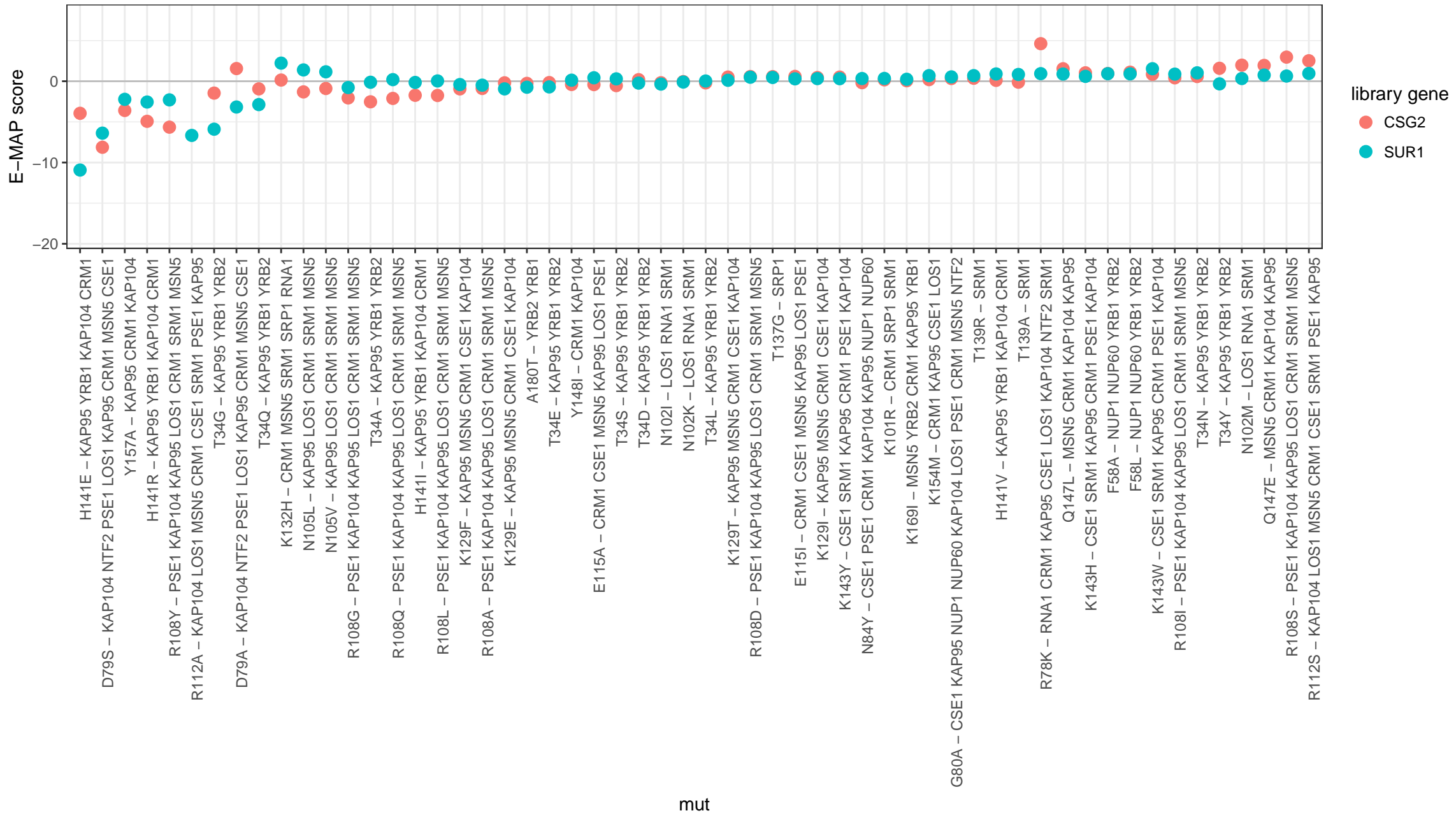
D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
T34G – KAP95 YRB1 YRB2
Y157A – KAP95 CRM1 KAP104
H141R – KAP95 YRB1 KAP104 CRM1
T34E – KAP95 YRB1 YRB2
T34Q – KAP95 YRB1 YRB2
K101R – CRM1 SRP1 SRM1
H141E – KAP95 YRB1 KAP104 CRM1
R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
K154M – CRM1 KAP95 CSE1 LOS1
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
N102I – LOS1 RNA1 SRM1
T139A – SRM1
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
T34N – KAP95 YRB1 YRB2
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
T34L – KAP95 YRB1 YRB2
T34S – KAP95 YRB1 YRB2
T137G – SRP1
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34A – KAP95 YRB1 YRB2
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
F58A – NUP1 NUP60 YRB1 YRB2
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
T34D – KAP95 YRB1 YRB2
H141V – KAP95 YRB1 KAP104 CRM1
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
N102K – LOS1 RNA1 SRM1
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
T34Y – KAP95 YRB1 YRB2
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
N102M – LOS1 RNA1 SRM1
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
H141I – KAP95 YRB1 KAP104 CRM1
Q147L – MSN5 CRM1 KAP104 KAP95
F58L – NUP1 NUP60 YRB1 YRB2
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
Y148I – CRM1 KAP104
T139R – SRM1
A180T – KAP95 YRB2 YRB1
Q147E – MSN5 CRM1 KAP104 KAP95
A180T – YRB2 YRB1
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5

mut

library gene

- RFM1
- HST1
- SUM1

Sur1p/Csg2p complex



SWI/SNF complex

E-MAP score

-20

-10

0

mut

R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
T34E – KAP95 YRB1 YRB2
K101R – CRM1 SRP1 SRM1
T34Q – KAP95 YRB1 YRB2
H141R – KAP95 YRB1 KAP104 CRM1
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
T34G – KAP95 YRB1 YRB2
D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
H141E – KAP95 YRB1 KAP104 CRM1
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
F58L – NUP1 NUP60 YRB1 YRB2
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
Y157A – KAP95 CRM1 KAP104
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
A180T – KAP95 YRB2 YRB1
T34D – KAP95 YRB1 YRB2
Q147L – MSN5 CRM1 KAP104 KAP95
H141V – KAP95 YRB1 KAP104 CRM1
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
F58A – NUP1 NUP60 YRB1 YRB2
N102I – LOS1 RNA1 SRM1
A180T – YRB2 YRB1
Q147E – MSN5 CRM1 KAP104 KAP95
N102K – LOS1 RNA1 SRM1
T139R – SRM1
T34A – KAP95 YRB1 YRB2
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
Y148I – CRM1 KAP104
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
N102M – LOS1 RNA1 SRM1
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T139A – SRM1
T34S – KAP95 YRB1 YRB2
K154M – CRM1 KAP95 CSE1 LOS1
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
T34N – KAP95 YRB1 YRB2
H141I – KAP95 YRB1 KAP104 CRM1
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
T137G – SRP1
T34L – KAP95 YRB1 YRB2
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
T34Y – KAP95 YRB1 YRB2
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5

- SWP82
- SNF11
- RTT102
- TAF14
- SWI1
- SNF2
- SNF12
- ARP7
- ARP9
- SNF6
- SNF5
- SWI3

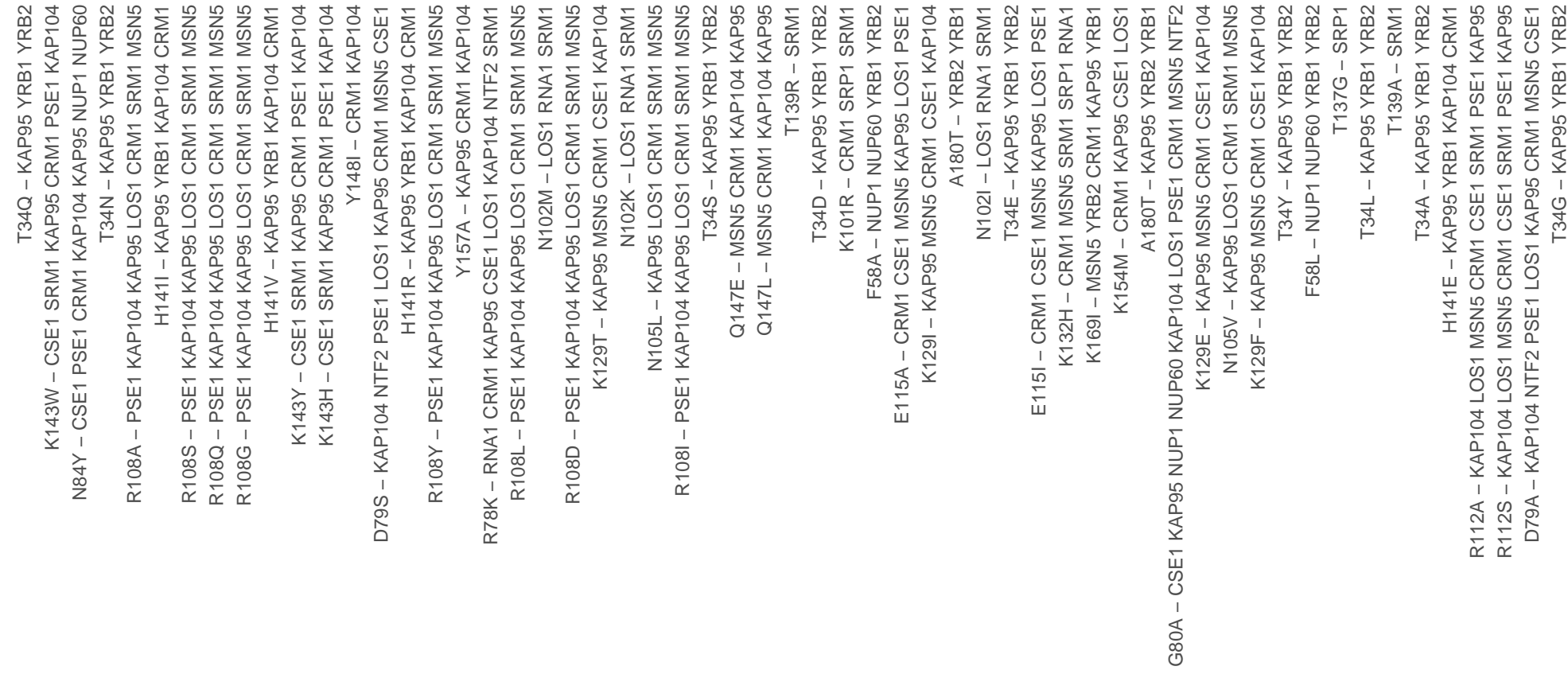
Swr1p complex

E-MAP score

-20

-10

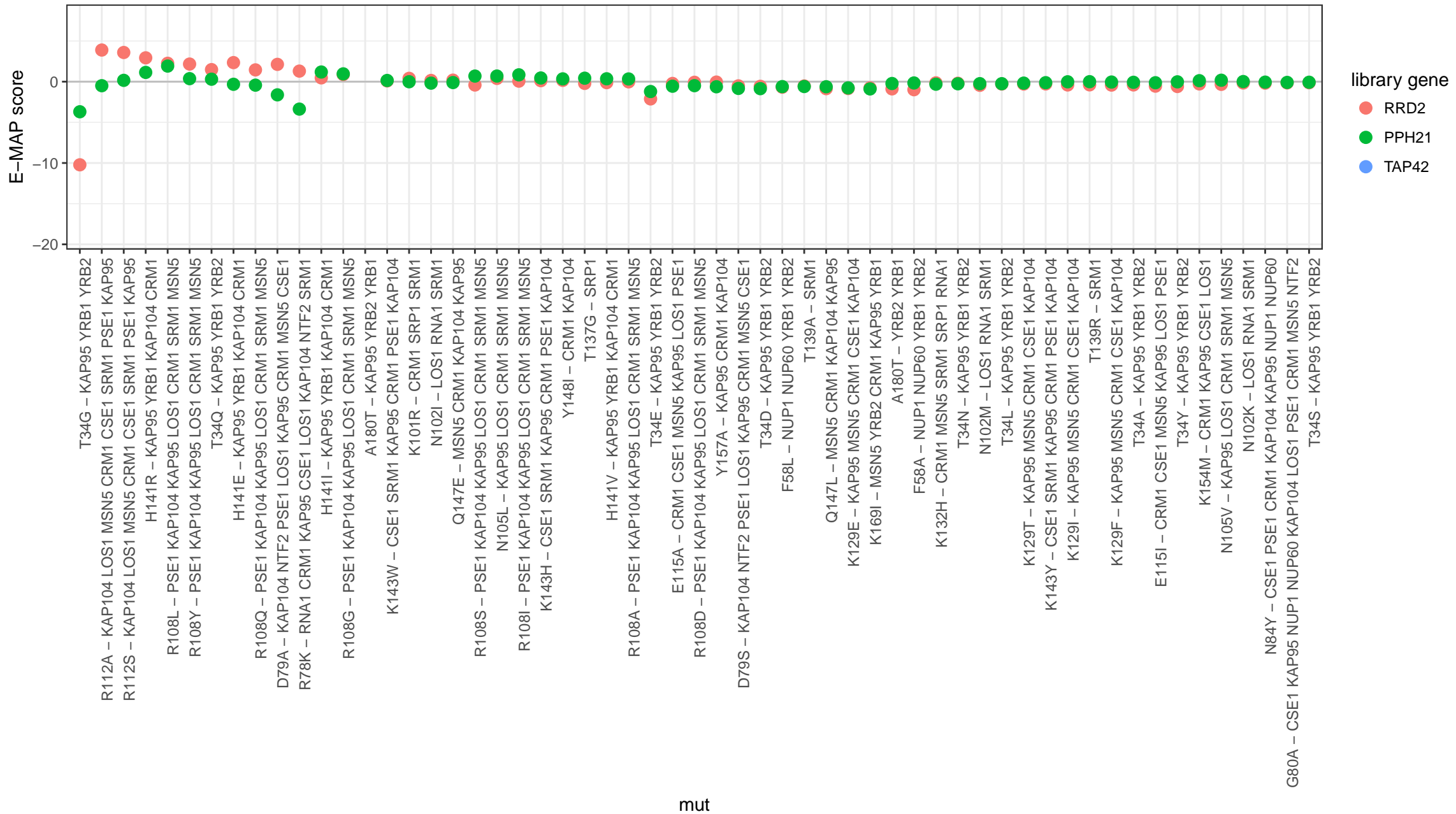
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mut

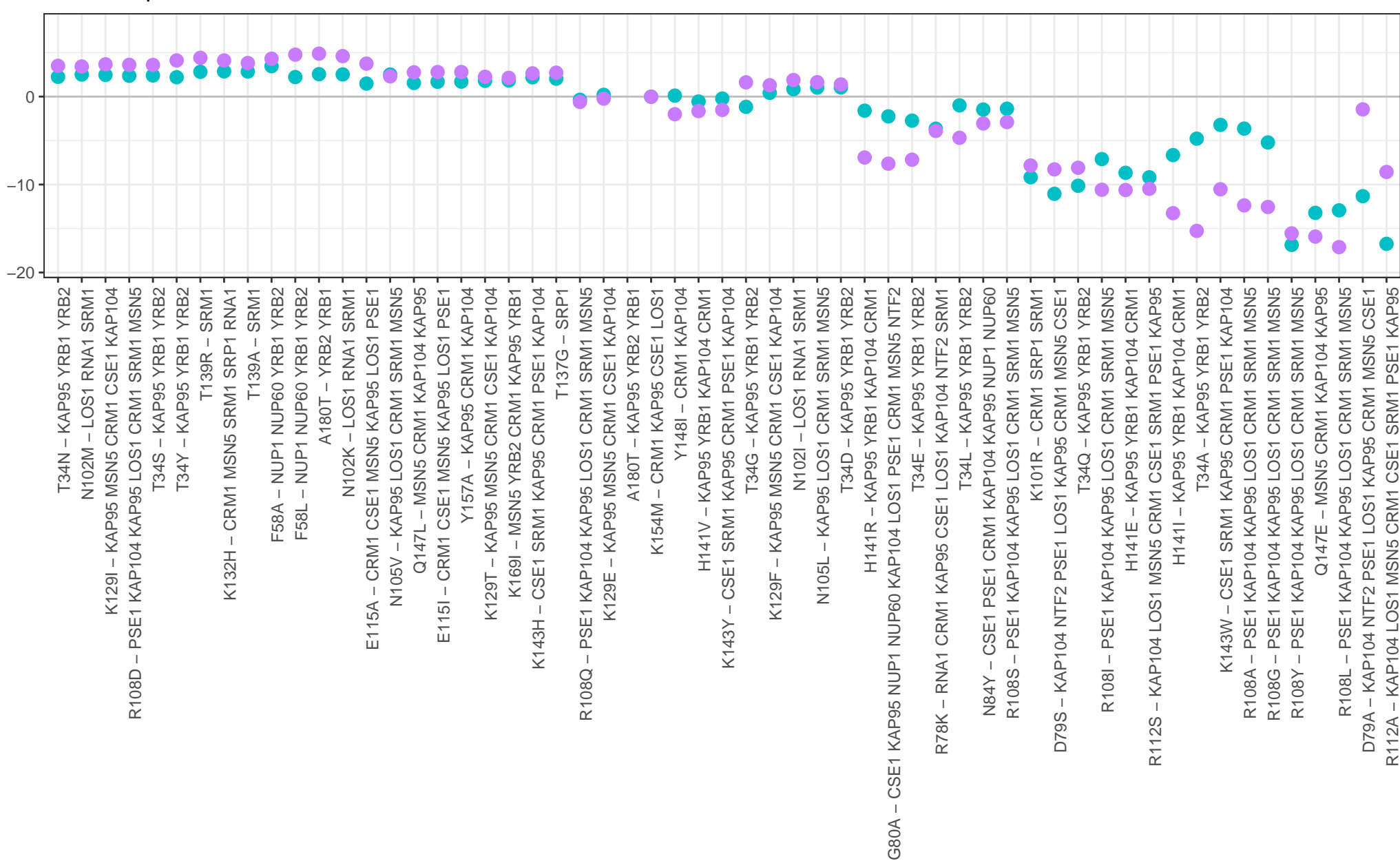
- SWC5
- SWR1
- VPS71
- ARP6
- VPS72
- SWC5
- YAF9
- SWC7
- SWC4
- RVB2
- RVB1
- ACT1
- ARP4

Tap42p/Pph21p/Rrd2p complex



THO complex

E-MAP score

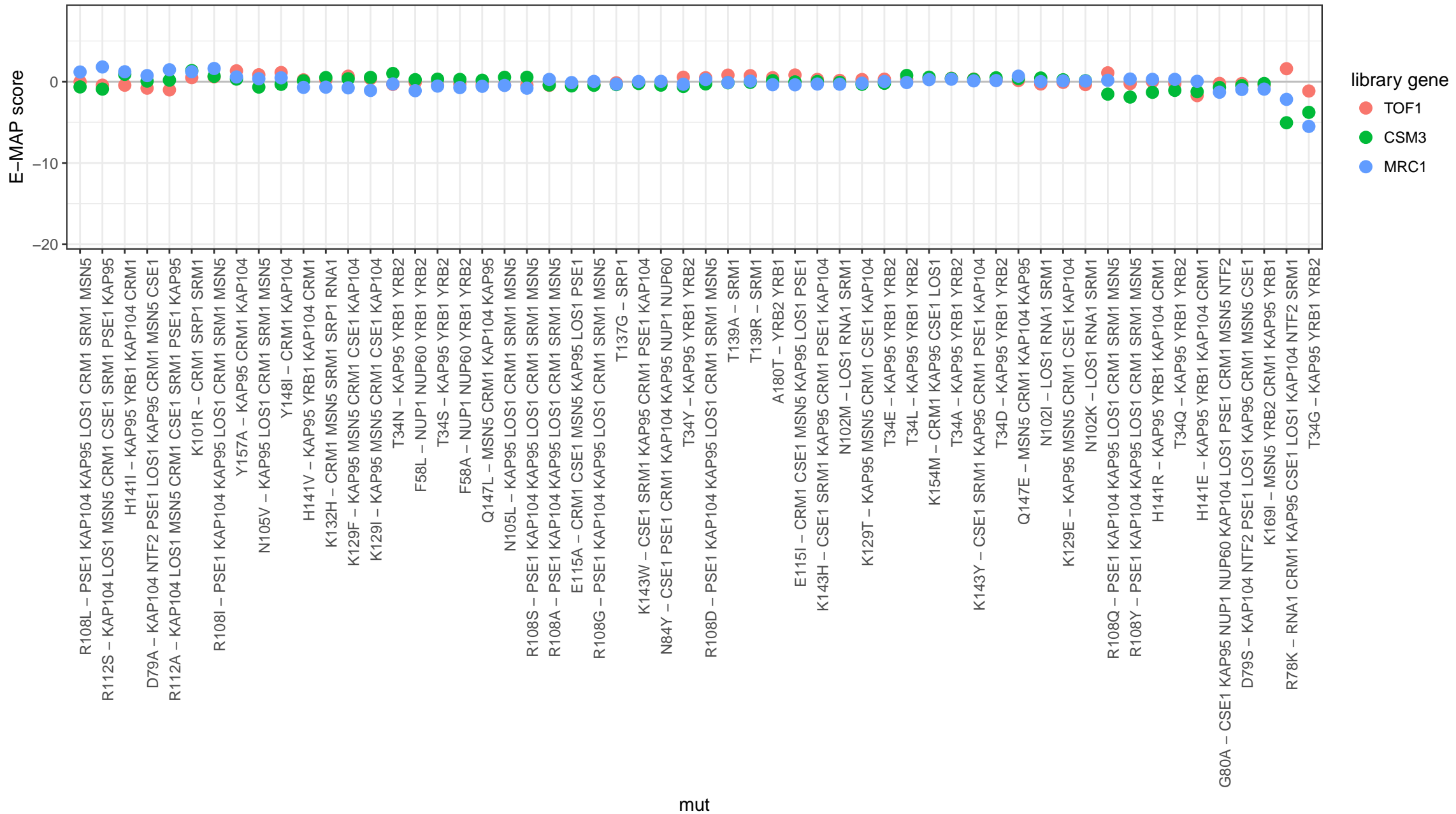


library gene

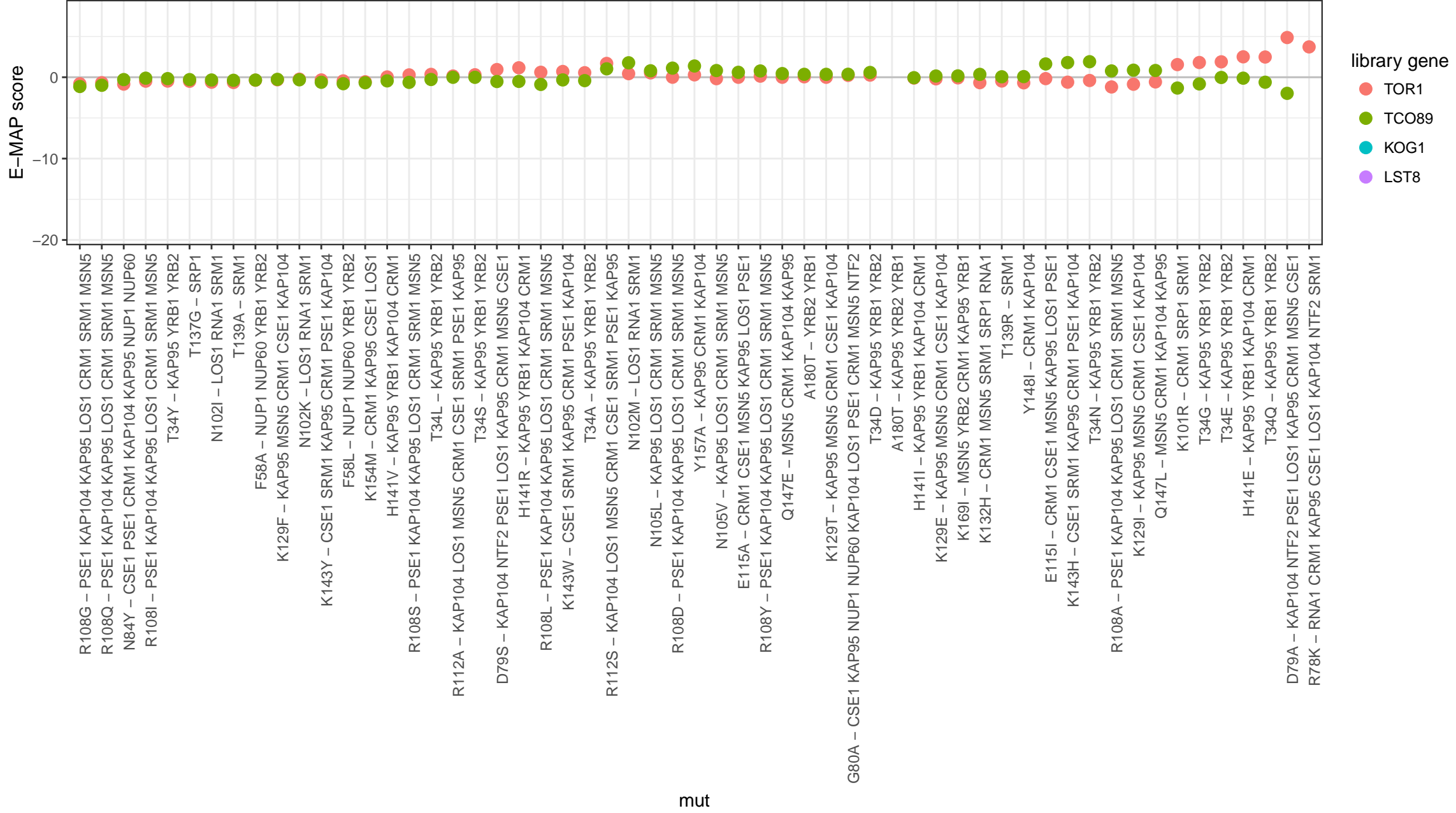
- HPR1
- RLR1
- MFT1
- THP2

mut

Tof1p/Mrc1p/Csm3p complex



TORC 1 complex



TORC 2 complex

E-MAP score

-20

-10

0

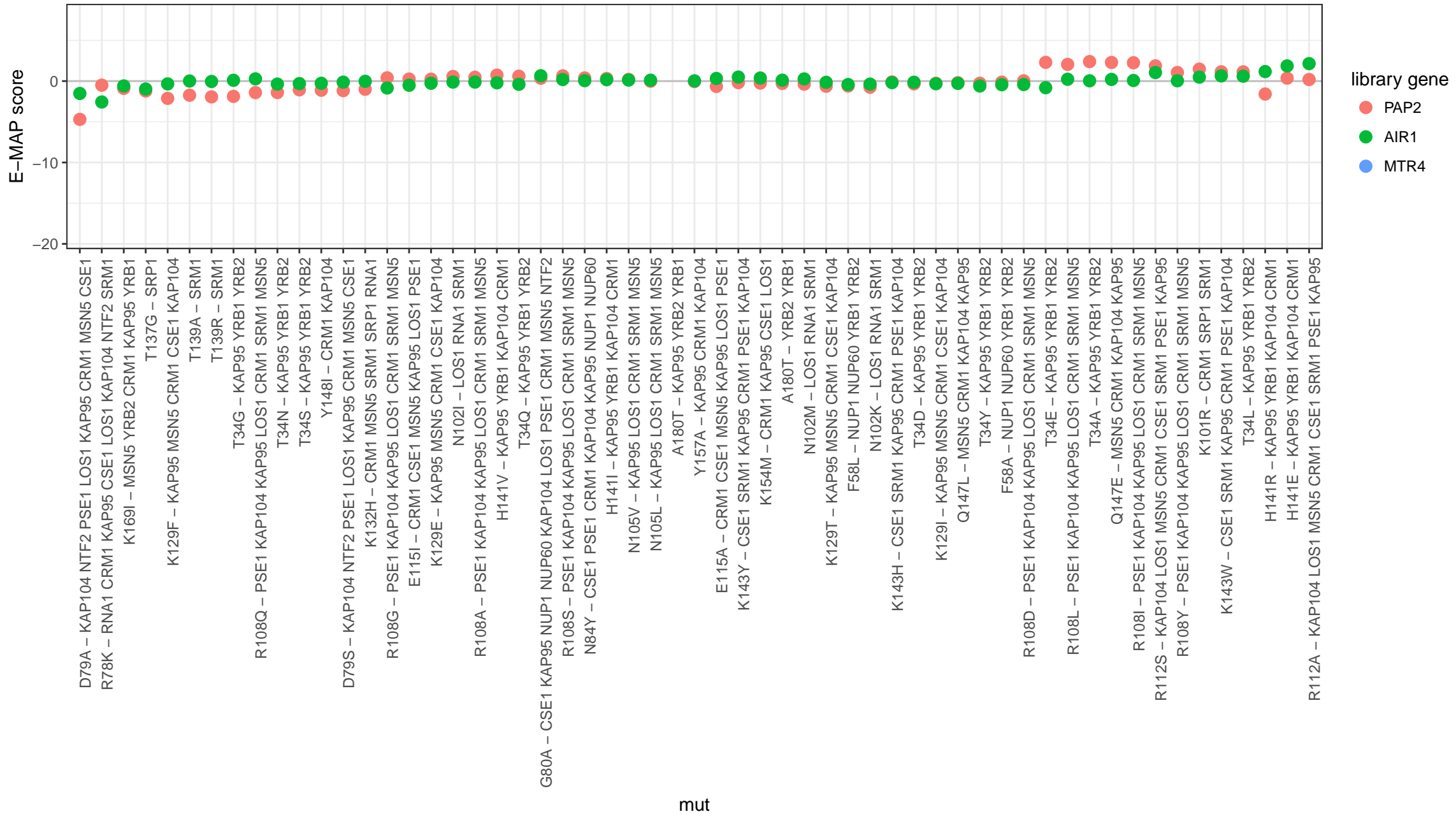
mut

library gene

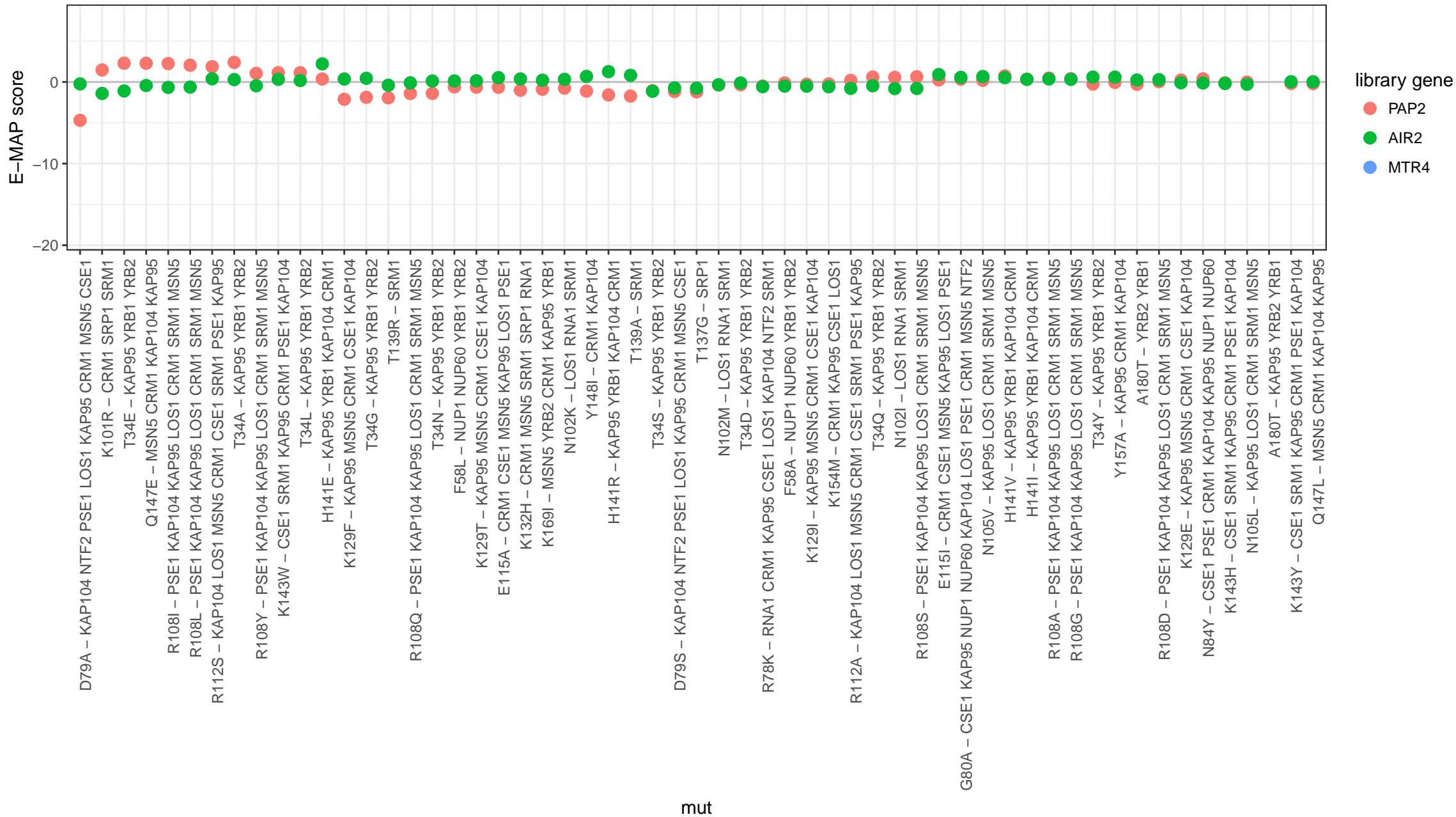
- TSC11
- TOR2
- SLM2
- LST8
- AVO1
- BIT61
- AVO2
- SLM1



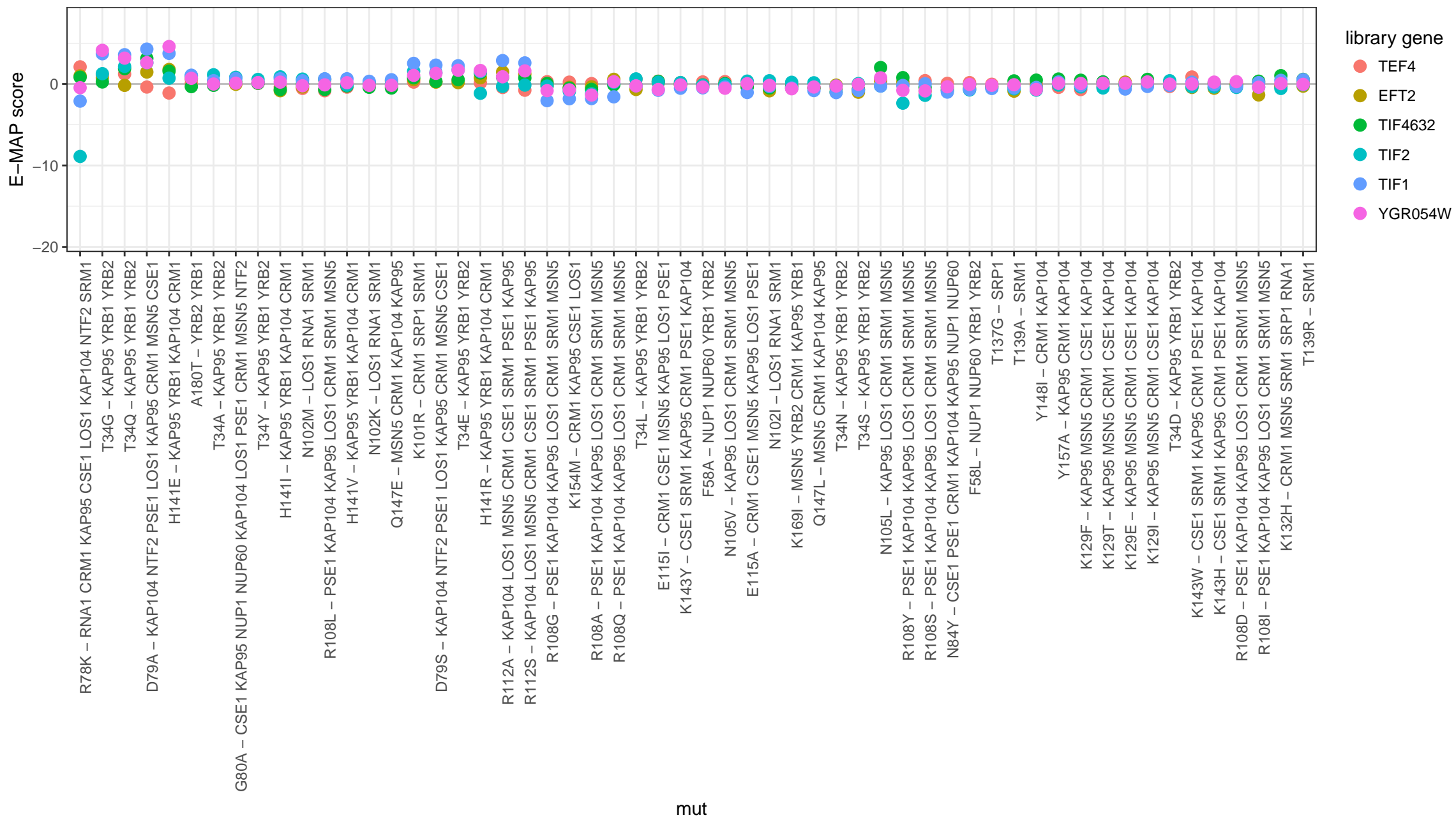
TRAMP complex (Air1p)



TRAMP complex (Air2p)



translation factor activity, RNA binding



transposition

E-MAP score

-20

-10

0

mut

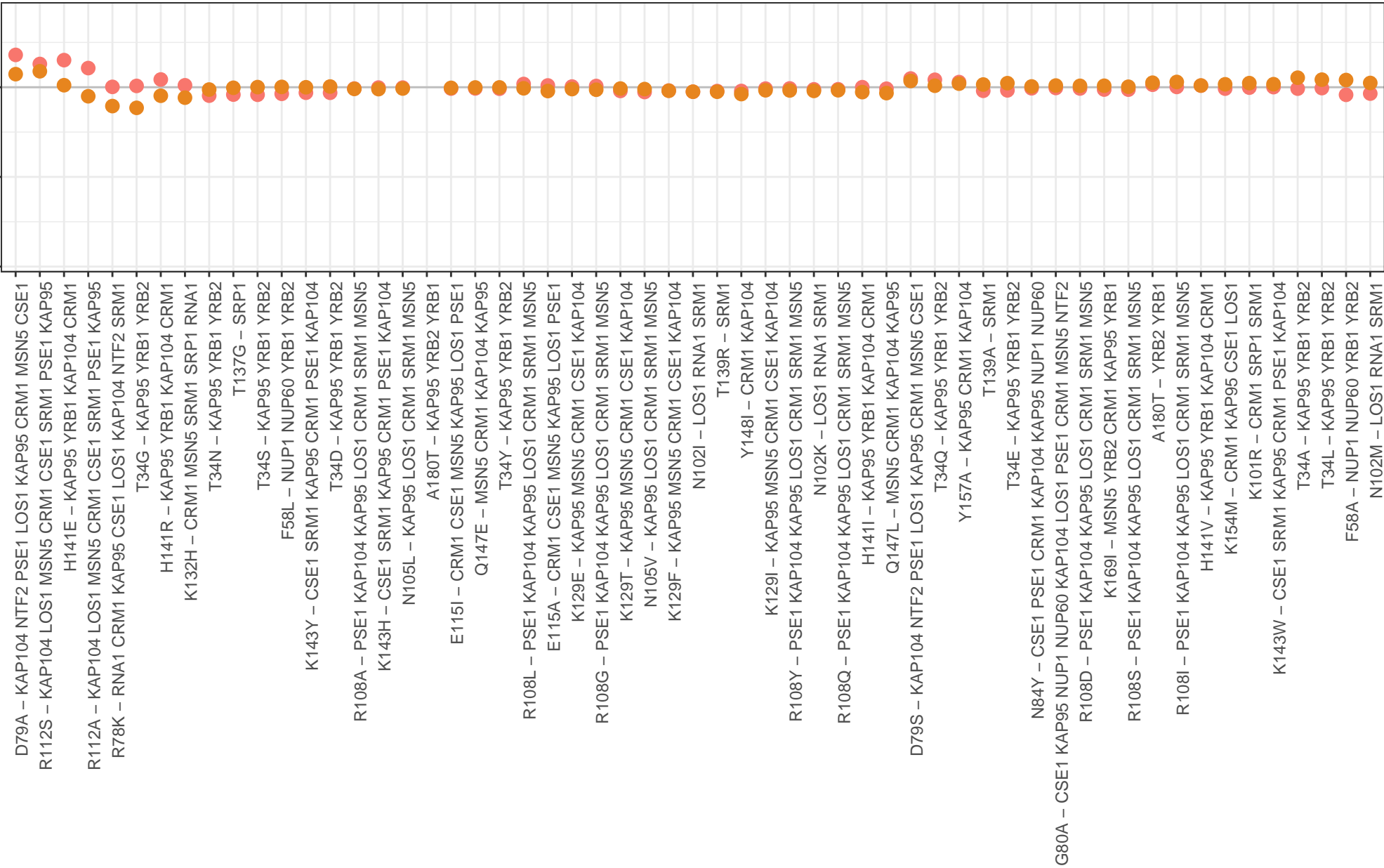
D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
H141E – KAP95 YRB1 KAP104 CRM1
T34G – KAP95 YRB1 YRB2
T34N – KAP95 YRB1 YRB2
T34S – KAP95 YRB1 YRB2
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
Q147L – MSN5 CRM1 KAP104 KAP95
N102M – LOS1 RNA1 SRM1
Q147E – MSN5 CRM1 KAP104 KAP95
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
T34D – KAP95 YRB1 YRB2
A180T – YRB2 YRB1
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
T34Y – KAP95 YRB1 YRB2
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
T34L – KAP95 YRB1 YRB2
N102I – LOS1 RNA1 SRM1
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
T139A – SRM1
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
F58A – NUP1 NUP60 YRB1 YRB2
F58L – NUP1 NUP60 YRB1 YRB2
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
H141I – KAP95 YRB1 KAP104 CRM1
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
N102K – LOS1 RNA1 SRM1
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34A – KAP95 YRB1 YRB2
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
Y157A – KAP95 CRM1 KAP104
Y148I – CRM1 KAP104
K154M – CRM1 KAP95 CSE1 LOS1
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
T137G – SRP1
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
H141V – KAP95 YRB1 KAP104 CRM1
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T139R – SRM1
H141R – KAP95 YRB1 KAP104 CRM1
K101R – CRM1 SRP1 SRM1
T34E – KAP95 YRB1 YRB2
T34Q – KAP95 YRB1 YRB2
R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95

- library gene
- RTT103
 - ELG1
 - RTT107
 - RTT109
 - RTT101
 - TEC1
 - DBR1
 - MMS1

U1 snRNP complex

E-MAP score

0
-10
-20



mut

- THO1
- SNU71
- SNU56
- SNP1
- SMX3
- SMX2
- SME1
- SMD3
- SMD2
- SMD1
- SMB1
- PRP42
- PRP40
- LUC7
- PRP39

U2 snRNP complex

E-MAP score

-20

-10

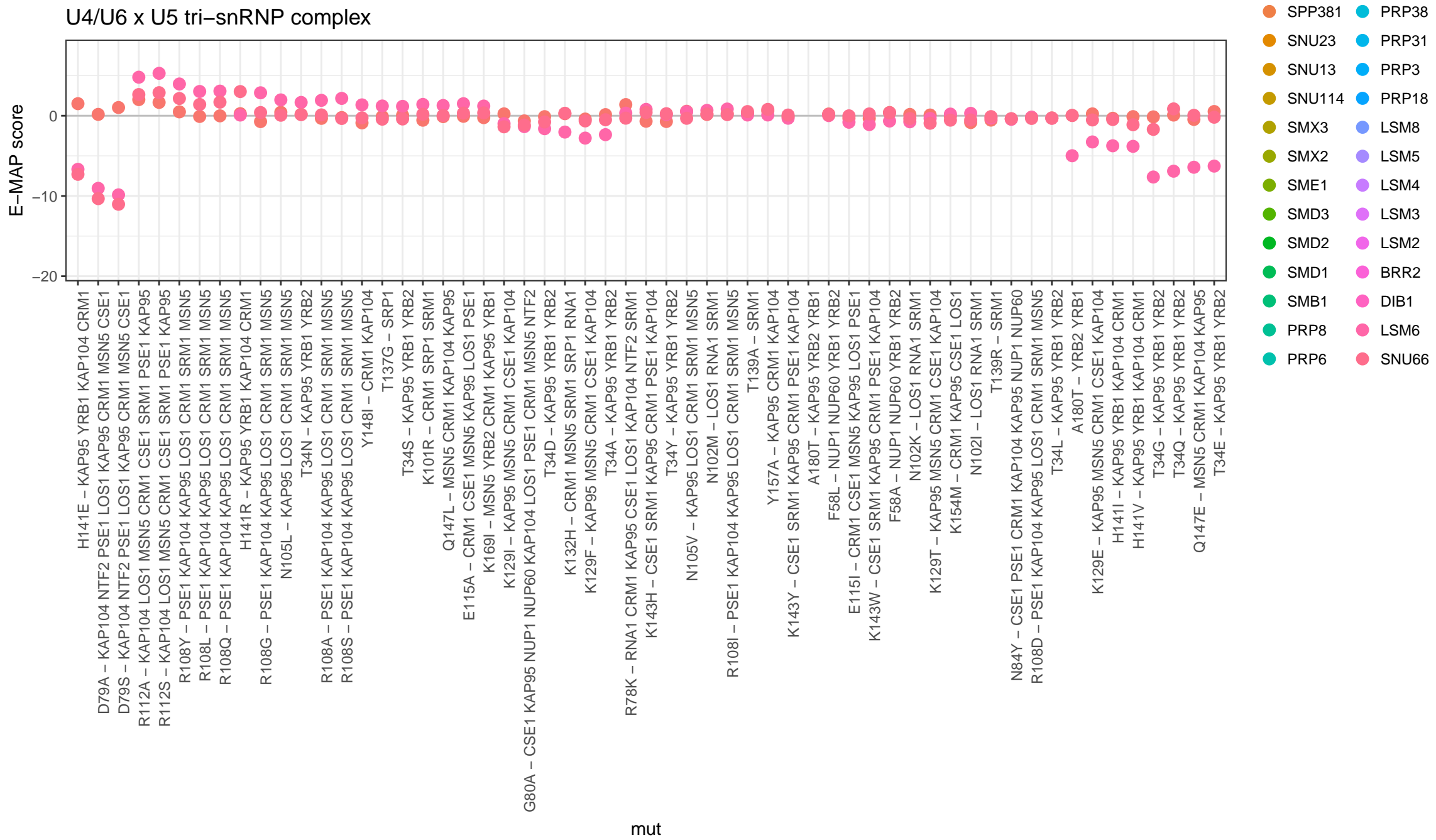
0

N102I – LOS1 RNA1 SRM1
T34A – KAP95 YRB1 YRB2
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
T139A – SRM1
A180T – YRB2 YRB1
T34D – KAP95 YRB1 YRB2
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
H141I – KAP95 YRB1 KAP104 CRM1
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
T139R – SRM1
F58L – NUP1 NUP60 YRB1 YRB2
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34N – KAP95 YRB1 YRB2
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
T34L – KAP95 YRB1 YRB2
T137G – SRP1
Y148I – CRM1 KAP104
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
K154M – CRM1 KAP95 CSE1 LOS1
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
K101R – CRM1 SRP1 SRM1
Y157A – KAP95 CRM1 KAP104
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
Q147E – MSN5 CRM1 KAP104 KAP95
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
F58A – NUP1 NUP60 YRB1 YRB2
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
A180T – KAP95 YRB2 YRB1
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
Q147L – MSN5 CRM1 KAP104 KAP95
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
T34Y – KAP95 YRB1 YRB2
H141V – KAP95 YRB1 KAP104 CRM1
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
N102K – LOS1 RNA1 SRM1
T34S – KAP95 YRB1 YRB2
N102M – LOS1 RNA1 SRM1
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
H141R – KAP95 YRB1 KAP104 CRM1
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
H141E – KAP95 YRB1 KAP104 CRM1
R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
T34E – KAP95 YRB1 YRB2
T34G – KAP95 YRB1 YRB2
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
T34Q – KAP95 YRB1 YRB2

mut

- SMX2
- SME1
- SMD3
- SMD2
- SMD1
- SMB1
- RSE1
- PRP9
- PRP21
- PRP11
- MSL1
- HSH49
- HSH155
- CUS1
- CUS2

U4/U6 x U5 tri-snRNP complex



U6 snRNP complex

E-MAP score

-20

-10

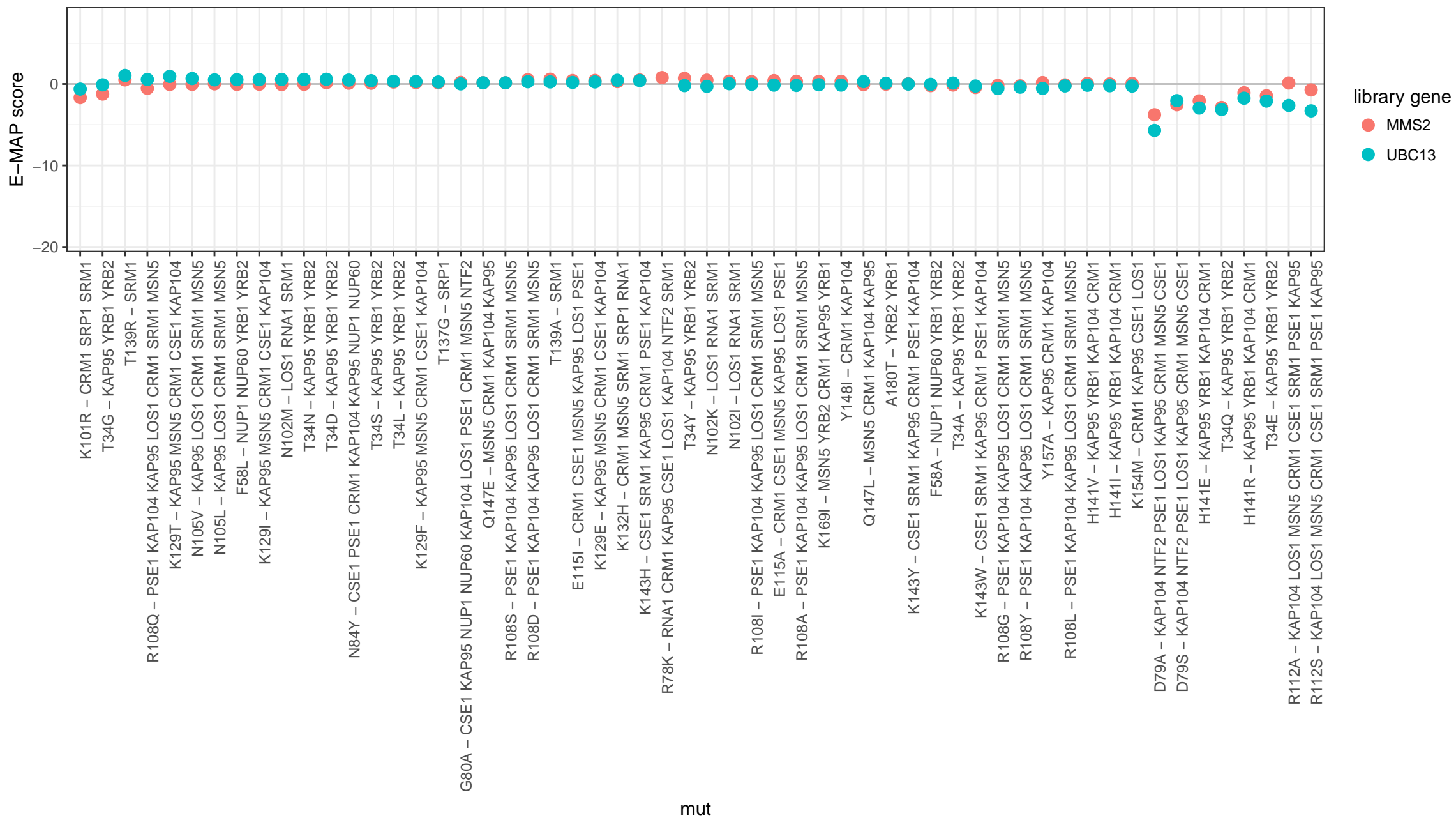
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R78K – RNA1 CRM1 KAP95 CSE1 LOS1 KAP104 NTF2 SRM1
N102M – LOS1 RNA1 SRM1
R108I – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
F58L – NUP1 NUP60 YRB1 YRB2
H141R – KAP95 YRB1 KAP104 CRM1
T139A – SRM1
A180T – KAP95 YRB2 YRB1
K154M – CRM1 KAP95 CSE1 LOS1
N105V – KAP95 LOS1 CRM1 SRM1 MSN5
Y157A – KAP95 CRM1 KAP104
T34S – KAP95 YRB1 YRB2
K169I – MSN5 YRB2 CRM1 KAP95 YRB1
Q147L – MSN5 CRM1 KAP104 KAP95
T137G – SRP1
E115A – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
T34N – KAP95 YRB1 YRB2
N105L – KAP95 LOS1 CRM1 SRM1 MSN5
R108A – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108S – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
N102I – LOS1 RNA1 SRM1
T34Y – KAP95 YRB1 YRB2
K143H – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
K101R – CRM1 SRP1 SRM1
Y148I – CRM1 KAP104
R112A – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
R112S – KAP104 LOS1 MSN5 CRM1 CSE1 SRM1 PSE1 KAP95
R108Y – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108G – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108L – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
R108Q – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5
D79A – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
D79S – KAP104 NTF2 PSE1 LOS1 KAP95 CRM1 MSN5 CSE1
H141E – KAP95 YRB1 KAP104 CRM1
T34G – KAP95 YRB1 YRB2
T34E – KAP95 YRB1 YRB2
Q147E – MSN5 CRM1 KAP104 KAP95
T34Q – KAP95 YRB1 YRB2
A180T – YRB2 YRB1
K129E – KAP95 MSN5 CRM1 CSE1 KAP104
H141I – KAP95 YRB1 KAP104 CRM1
H141V – KAP95 YRB1 KAP104 CRM1
K129F – KAP95 MSN5 CRM1 CSE1 KAP104
K132H – CRM1 MSN5 SRM1 SRP1 RNA1
T34A – KAP95 YRB1 YRB2
E115I – CRM1 CSE1 MSN5 KAP95 LOS1 PSE1
K143W – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
G80A – CSE1 KAP95 NUP1 NUP60 KAP104 LOS1 PSE1 CRM1 MSN5 NTF2
T34D – KAP95 YRB1 YRB2
F58A – NUP1 NUP60 YRB1 YRB2
K129I – KAP95 MSN5 CRM1 CSE1 KAP104
N102K – LOS1 RNA1 SRM1
N84Y – CSE1 PSE1 CRM1 KAP104 KAP95 NUP1 NUP60
T139R – SRM1
K129T – KAP95 MSN5 CRM1 CSE1 KAP104
T34L – KAP95 YRB1 YRB2
K143Y – CSE1 SRM1 KAP95 CRM1 PSE1 KAP104
R108D – PSE1 KAP104 KAP95 LOS1 CRM1 SRM1 MSN5

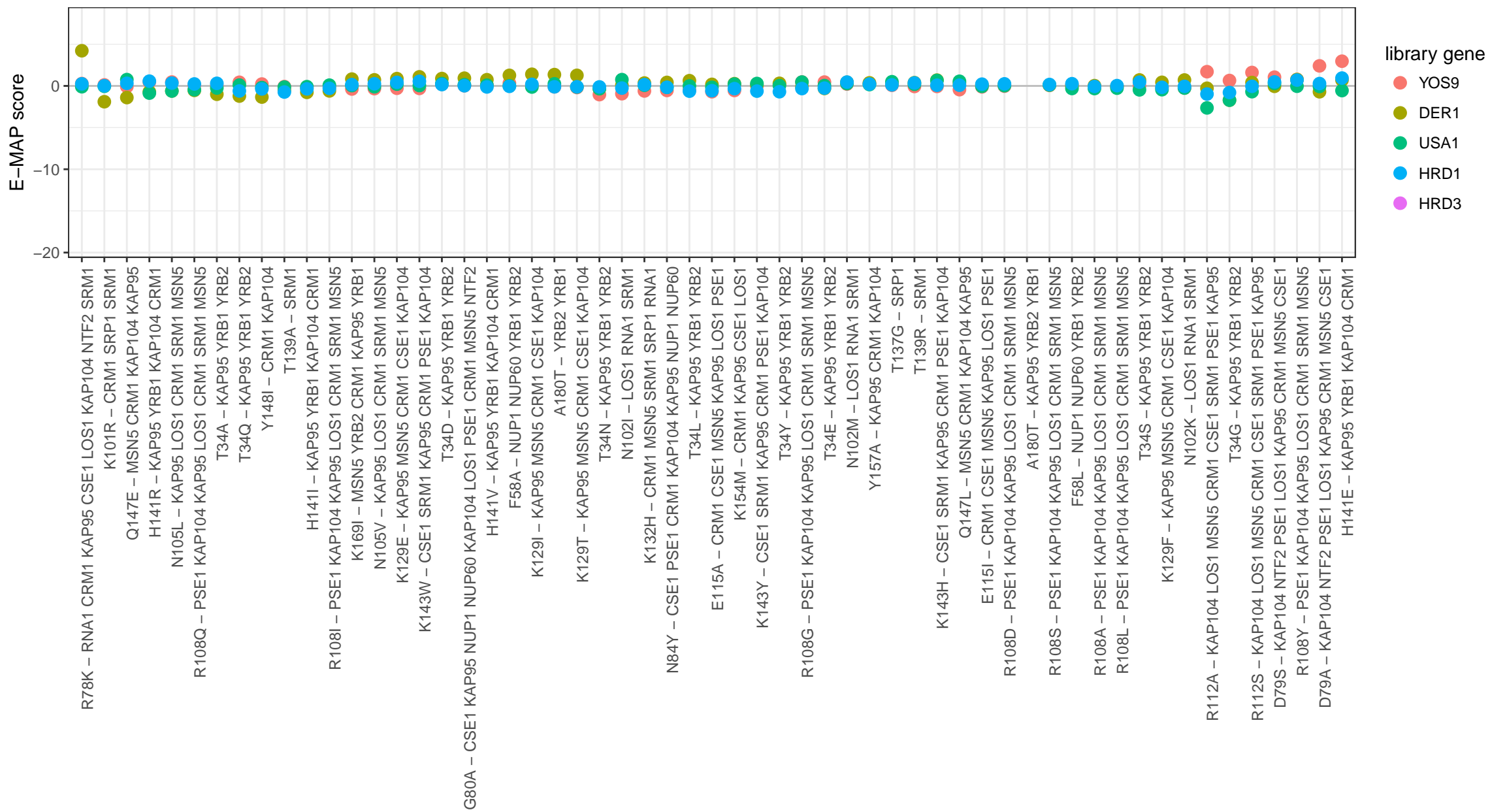
mut

- library gene
- LSM6
 - LSM7
 - PRP24
 - LSM8
 - LSM5
 - LSM4
 - LSM2
 - LSM3

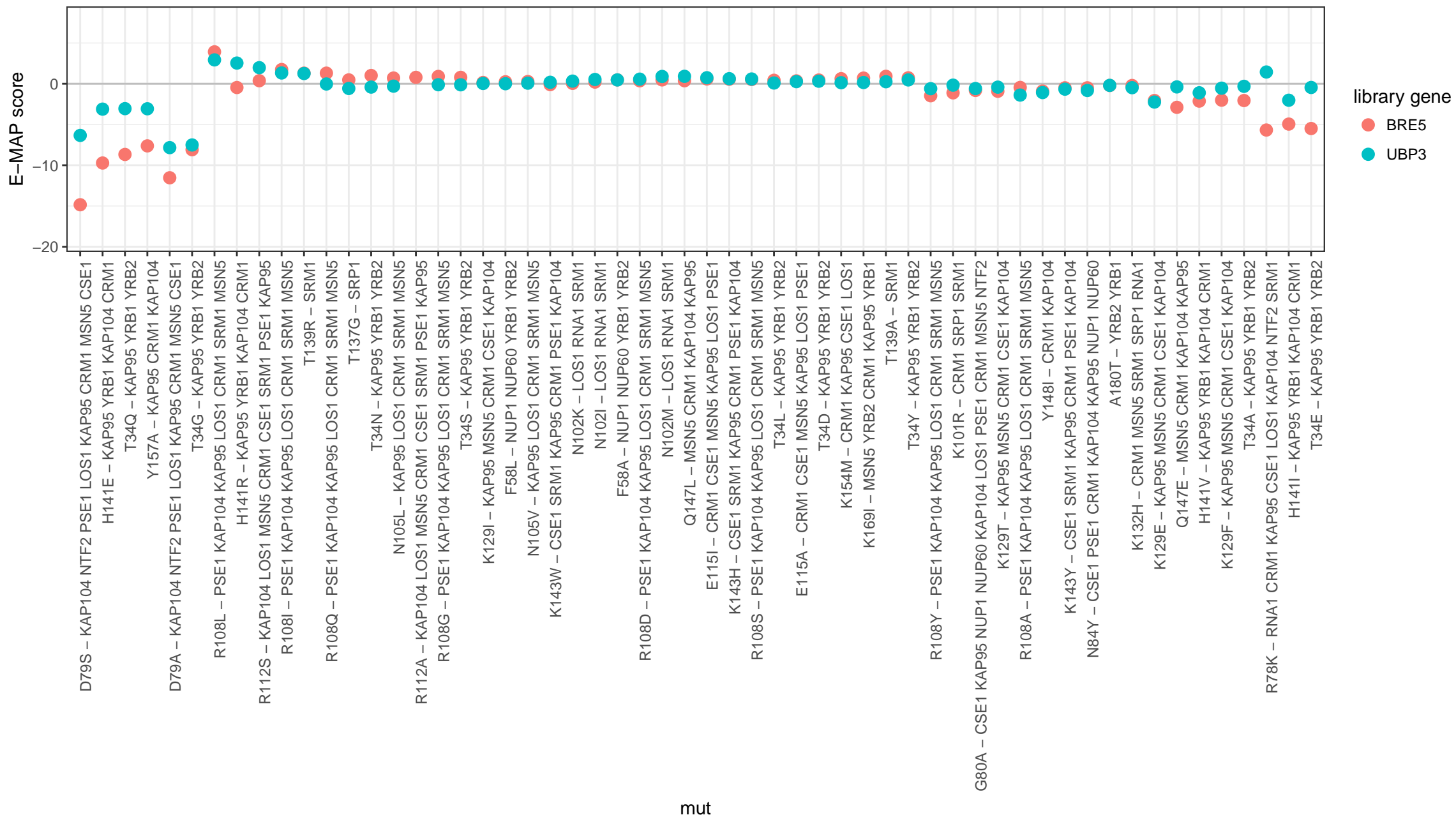
ubiquitin conjugating enzyme complex



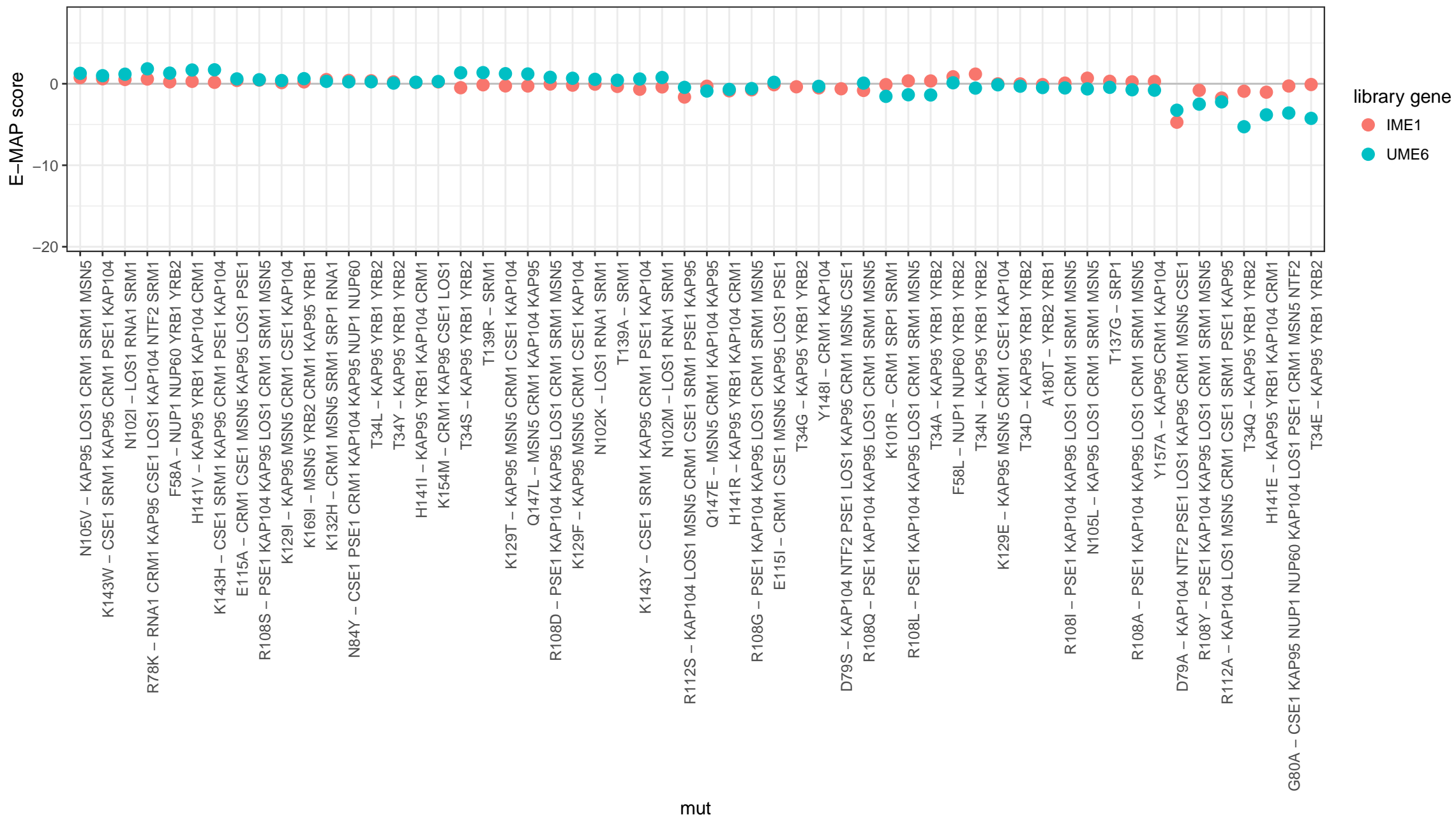
ubiquitin ligase ERAD-L complex



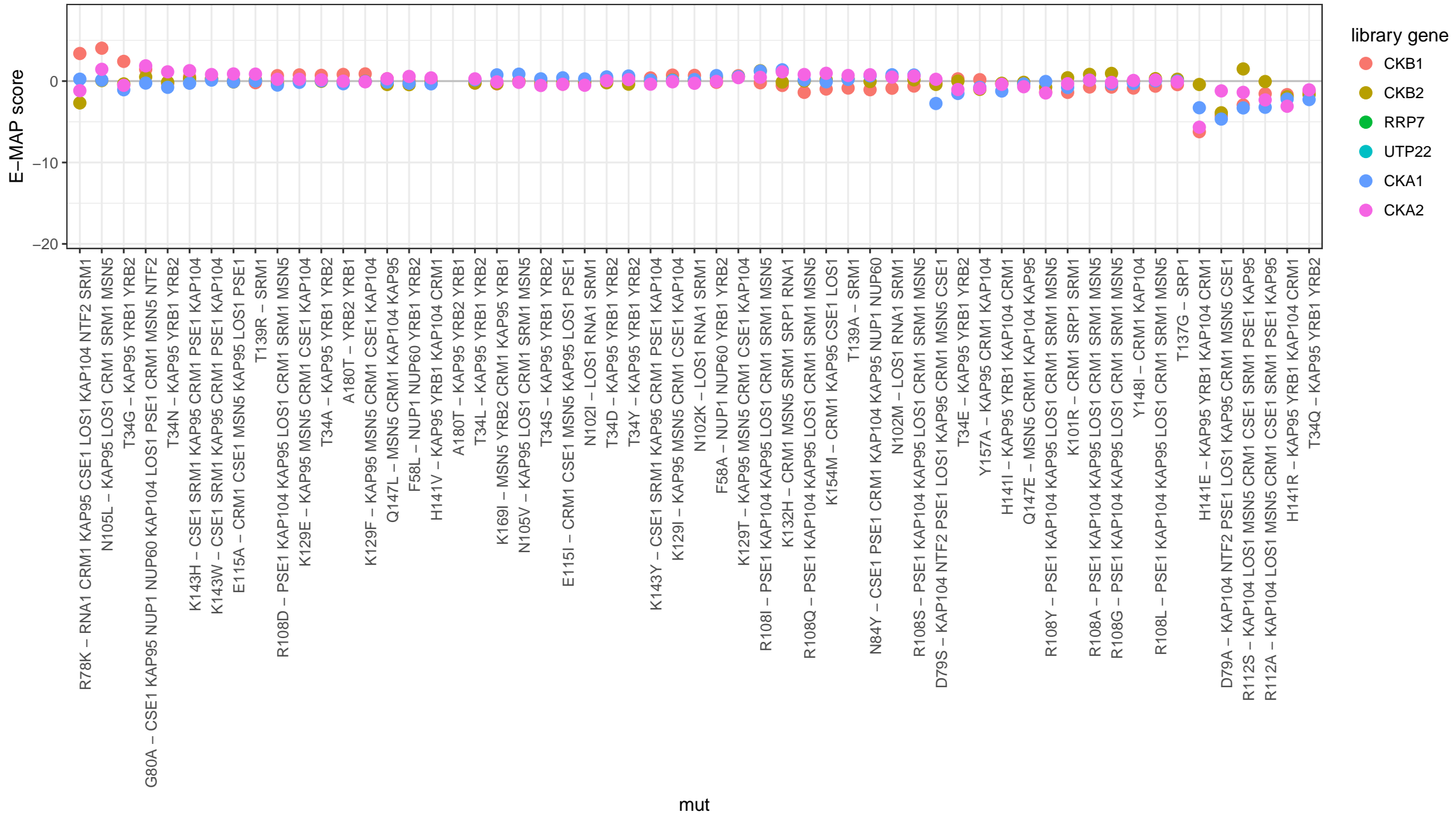
Ubp3p/Bre5p complex



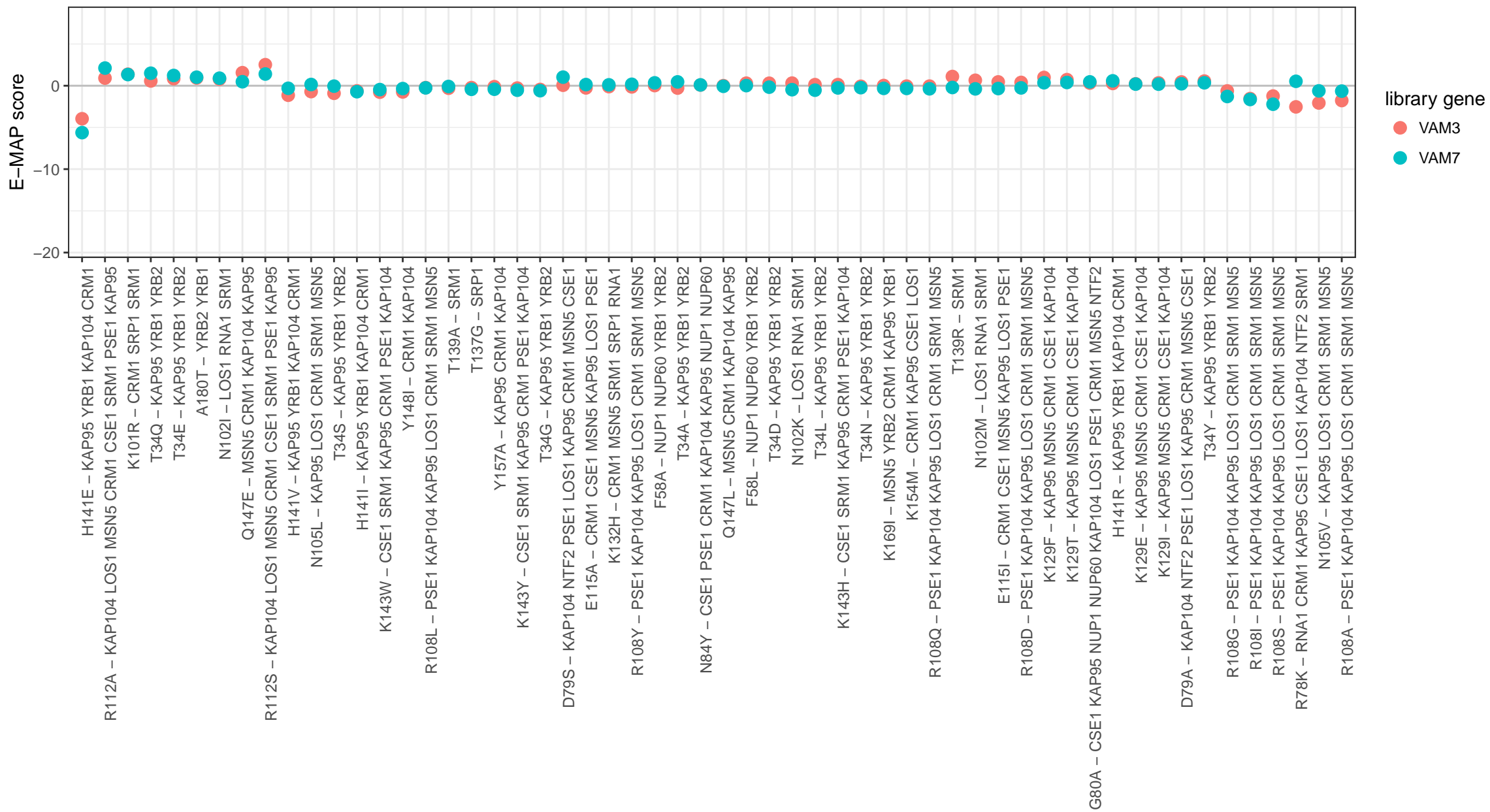
Ume6p/Ime1p complex



UTP C complex

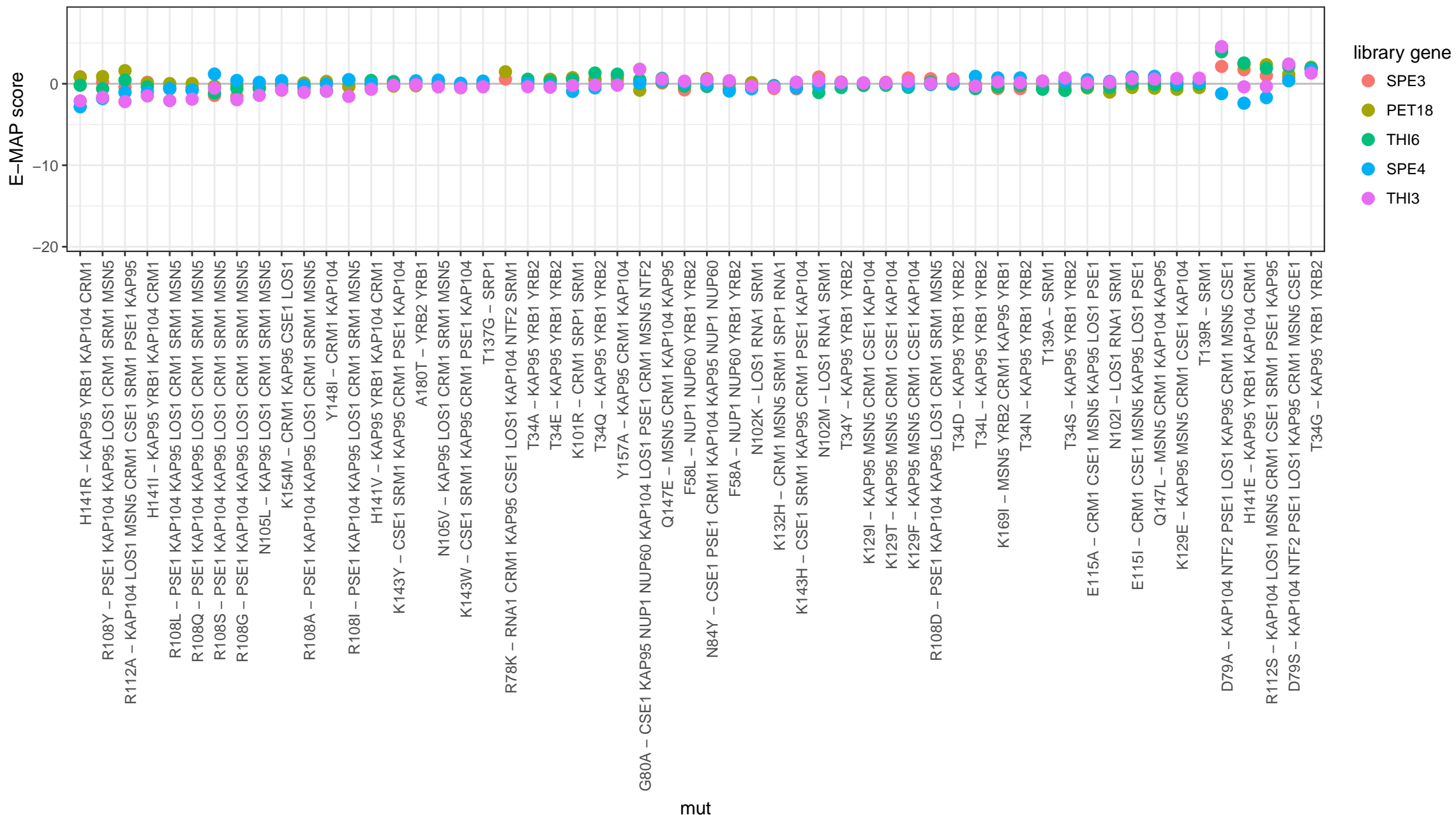


Vam3p/Vam7 vacuolar tSNARE complex



mut

vitamin metabolic process



zeta DNA polymerase complex

