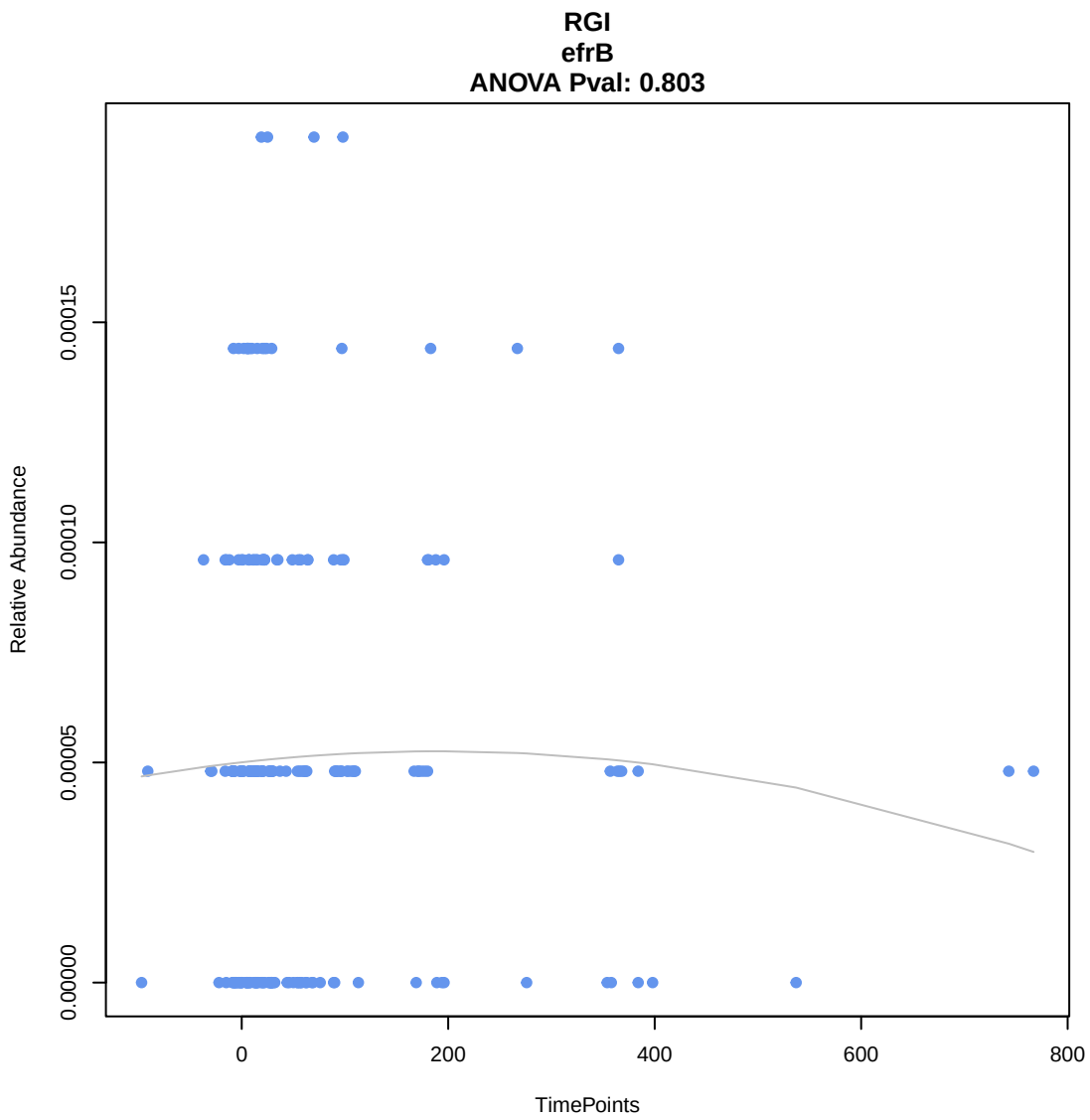
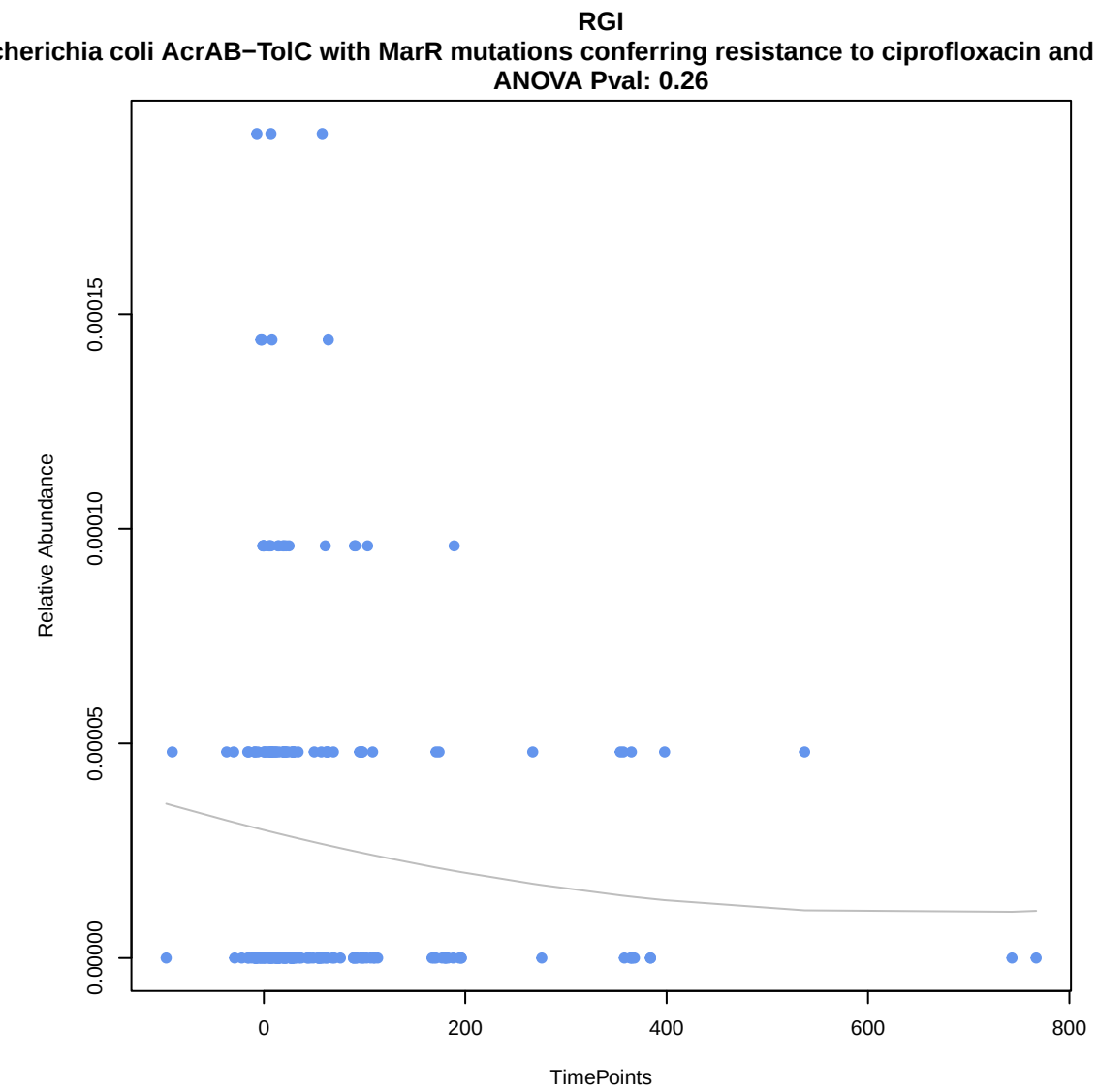
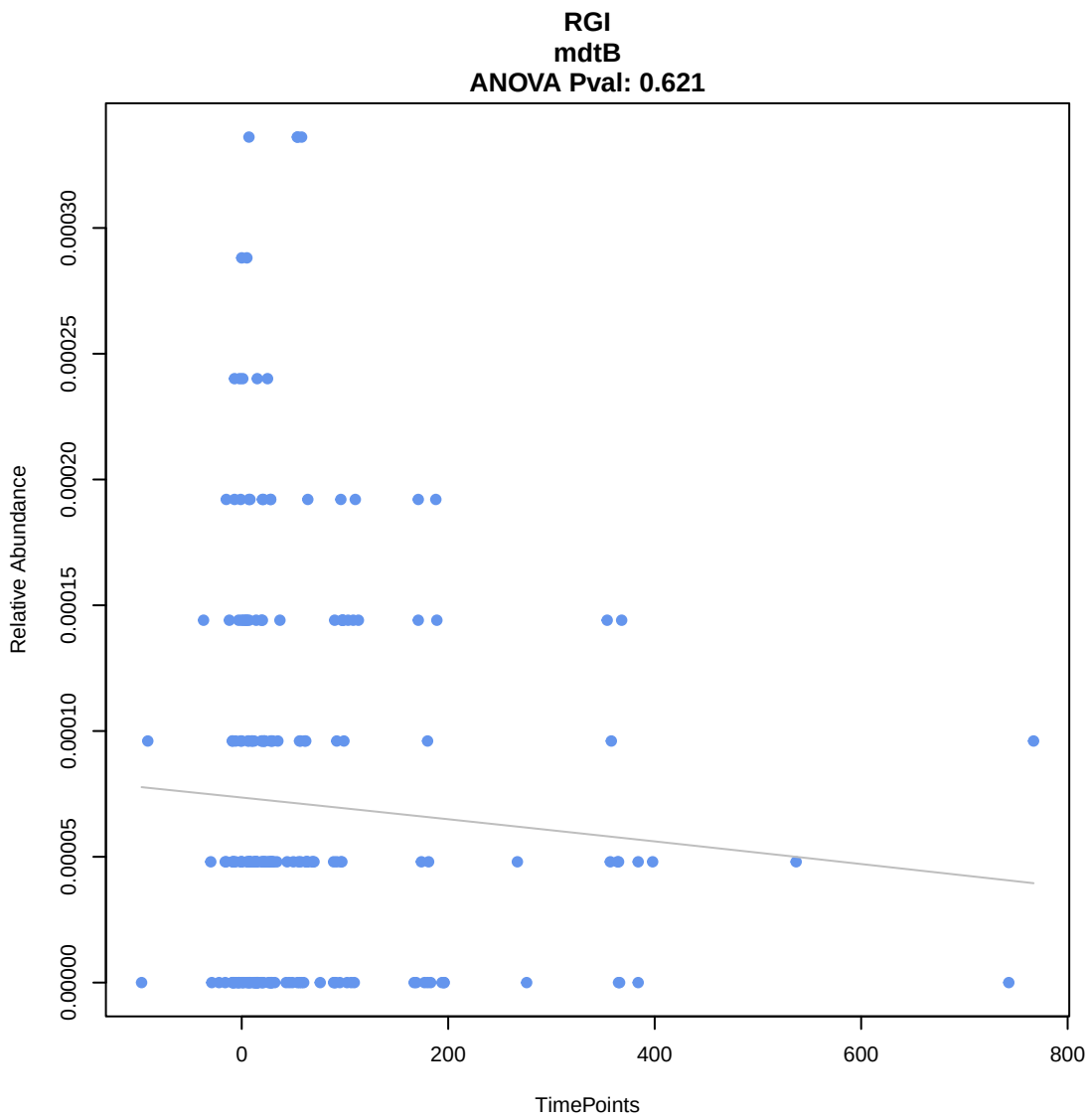
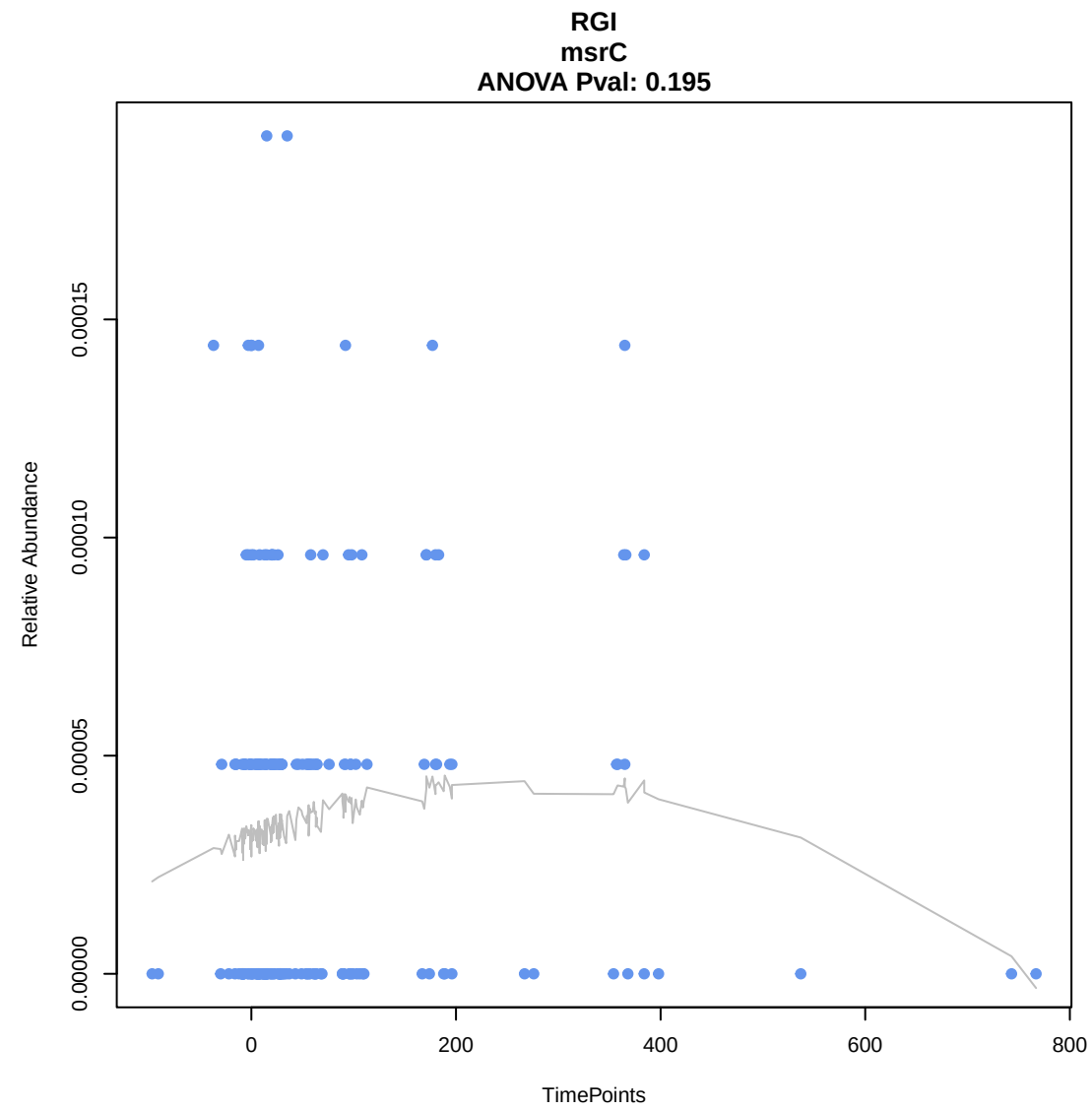
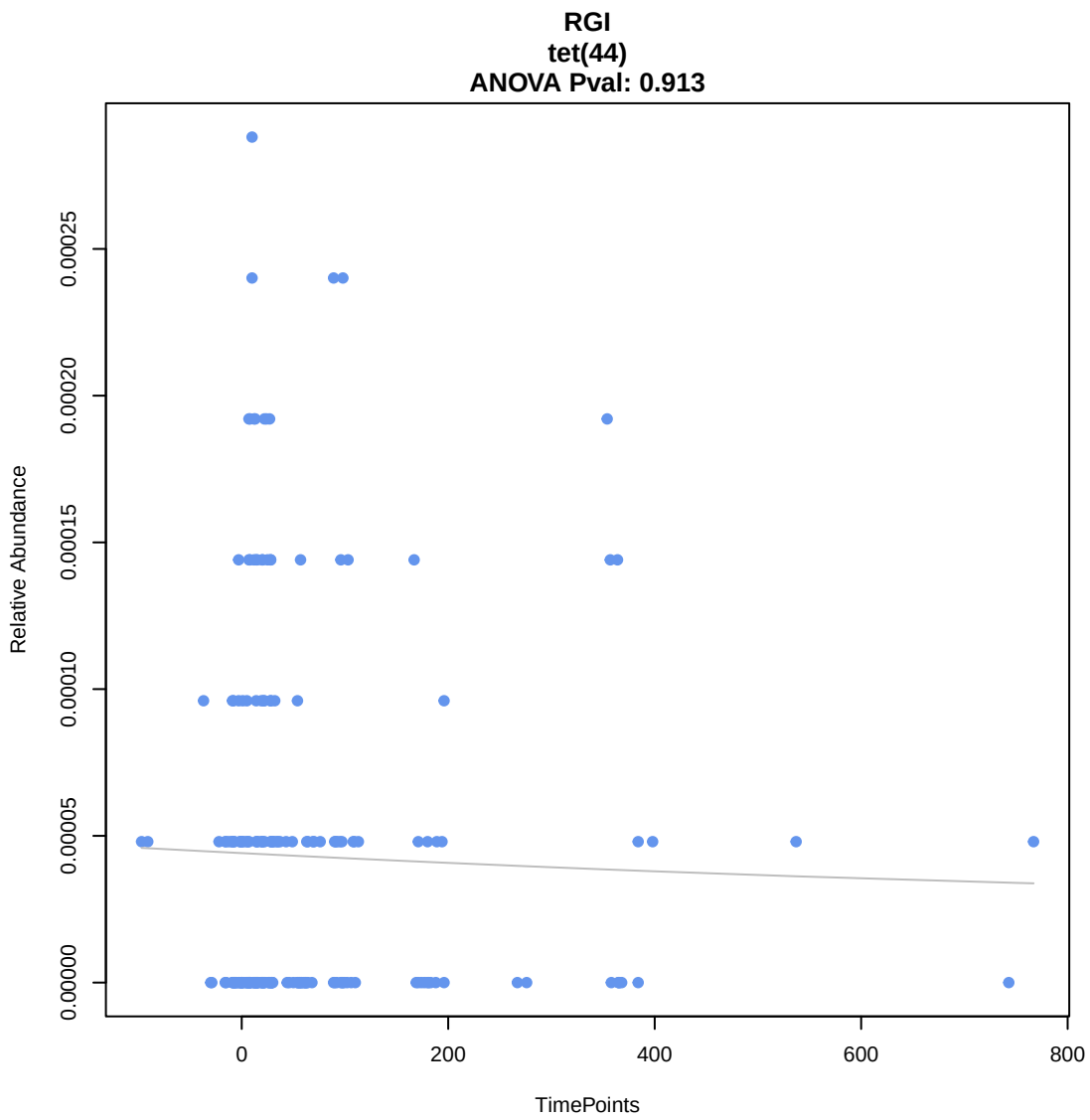
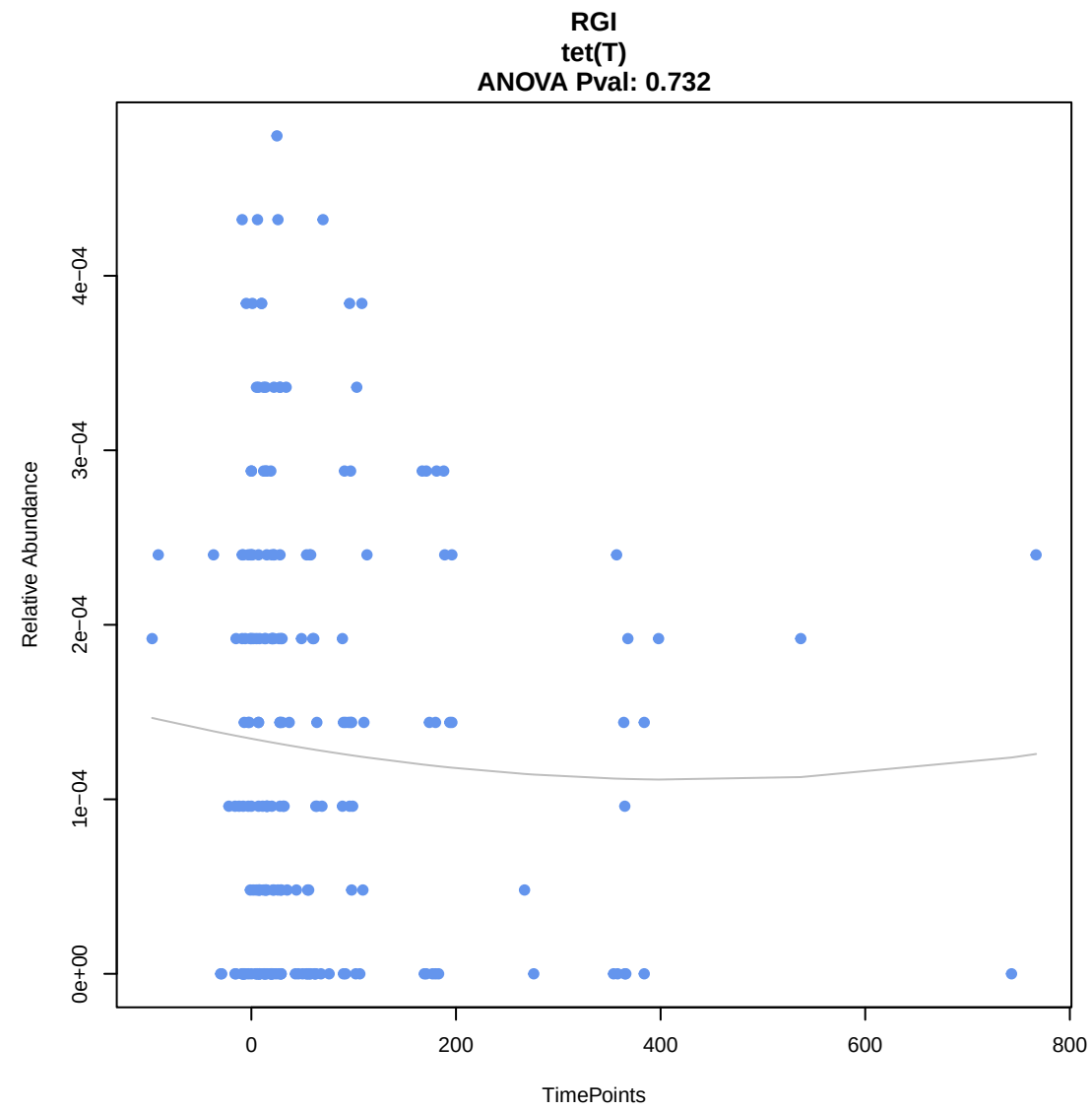

RGI
efrB
ANOVA Pval: 0.803
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

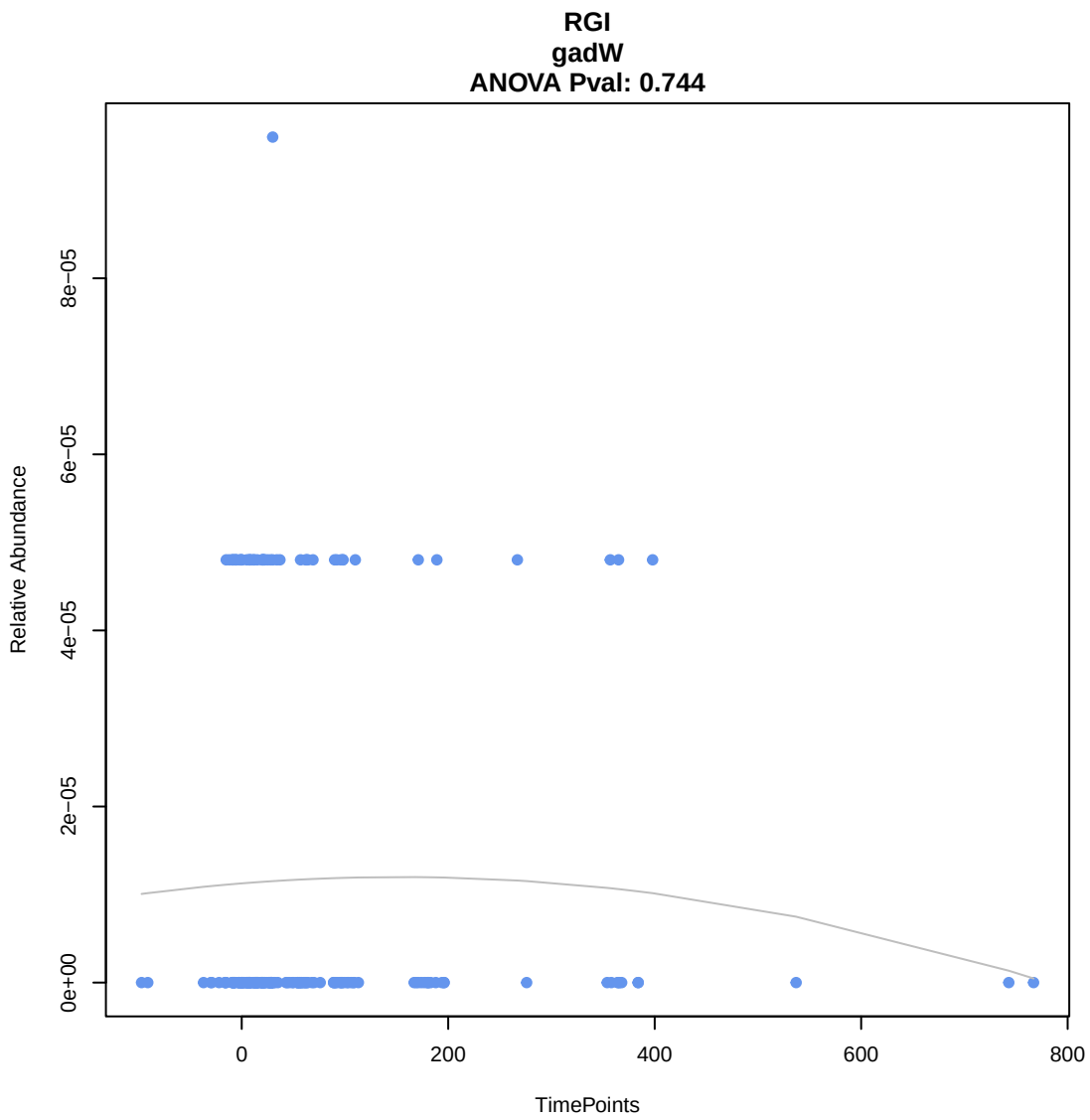

RGI
scherichia coli AcrAB−TolC with MarR mutations conferring resistance to ciprofloxacin and
ANOVA Pval: 0.26
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

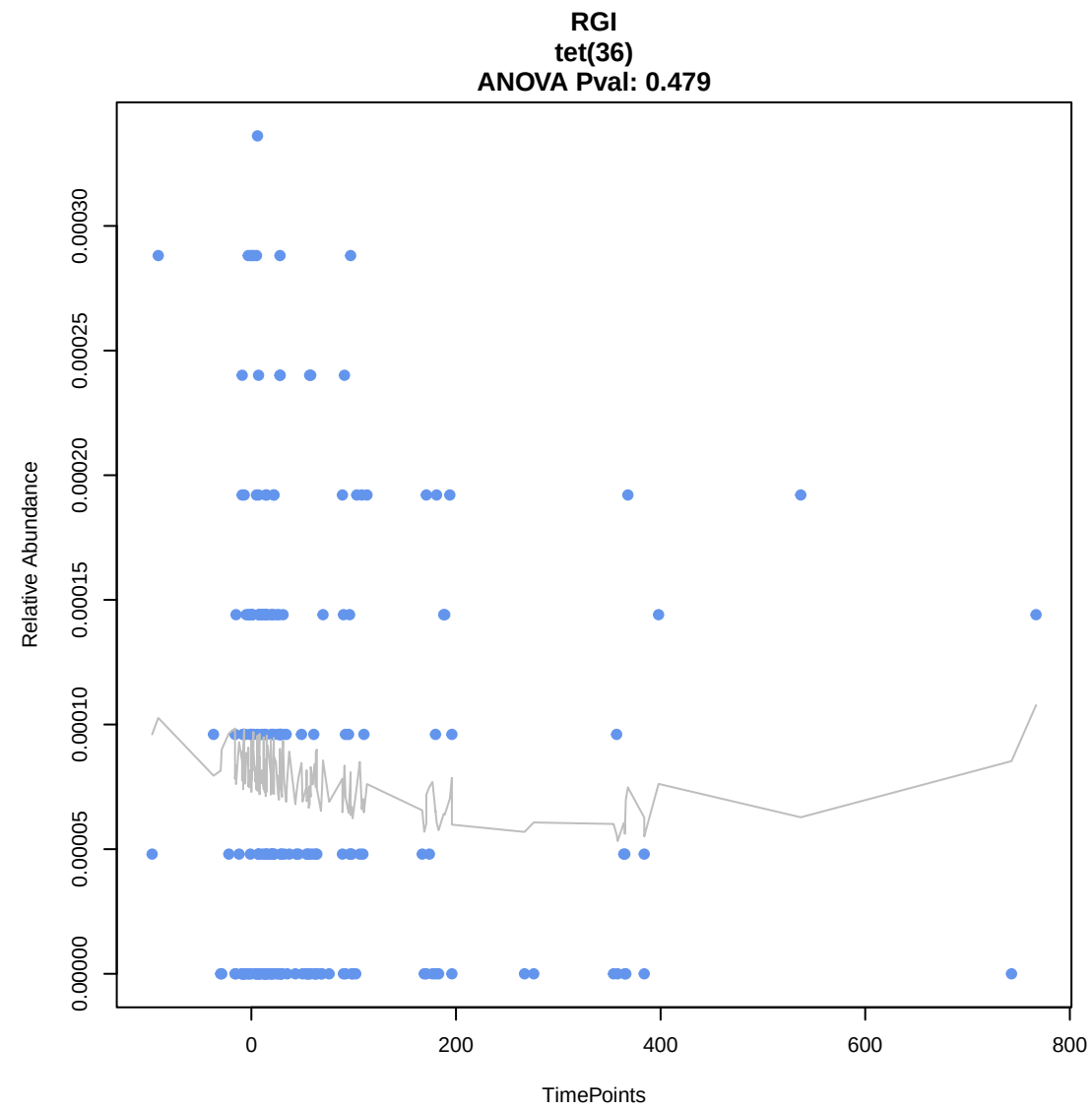

RGI
mdtB
ANOVA Pval: 0.621
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0.00025
0.00030
0
200
400
600
800
TimePoints

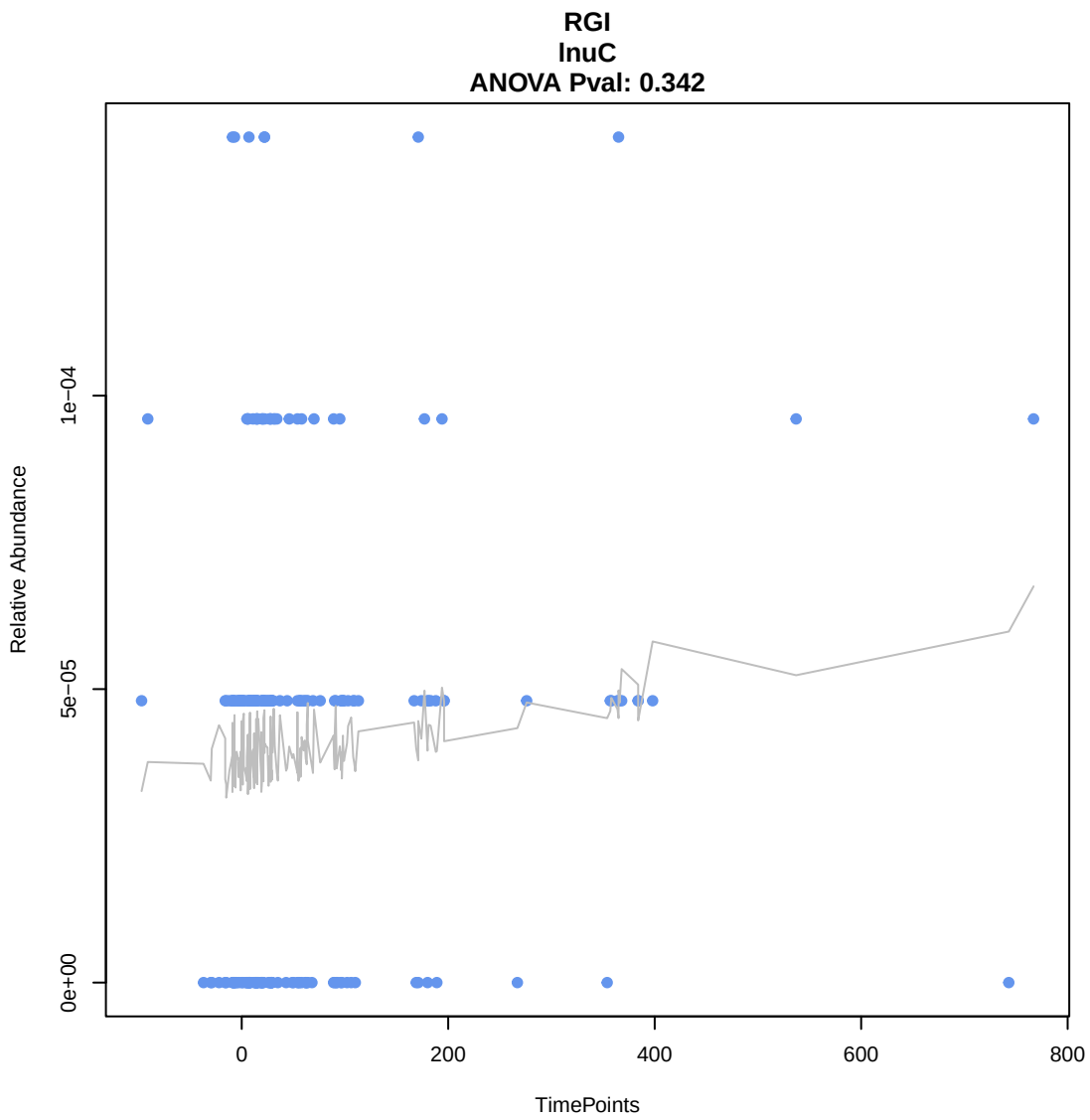

RGI
msrC
ANOVA Pval: 0.195
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

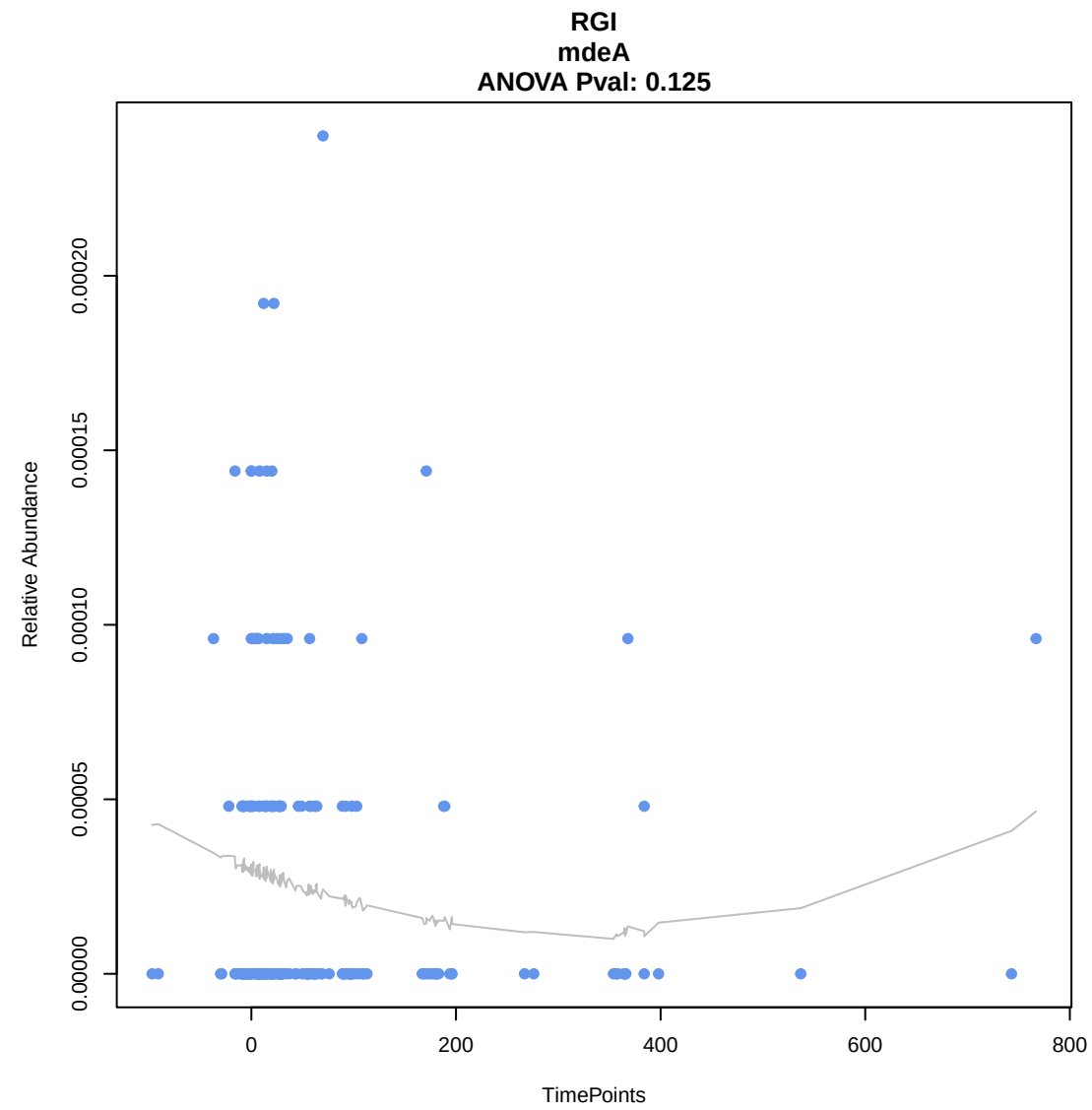

RGI
tet(44)
ANOVA Pval: 0.913
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0.00025
0
200
400
600
800
TimePoints

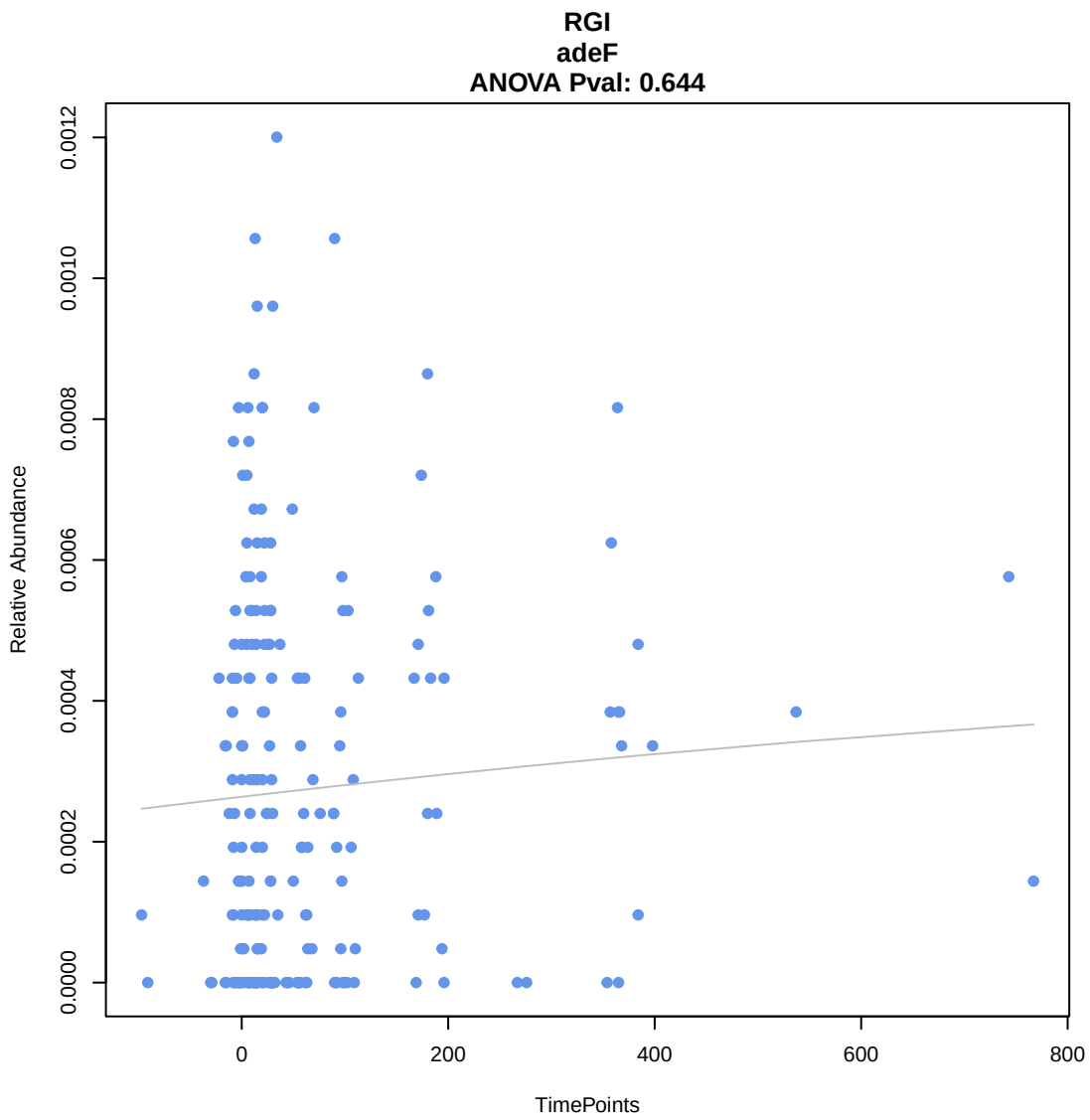

RGI
tet(T)
ANOVA Pval: 0.732
Relative Abundance
0e+00
1e−04
2e−04
3e−04
4e−04
0
200
400
600
800
TimePoints


RGI
gadW
ANOVA Pval: 0.744
Relative Abundance
0e+00
2e−05
4e−05
6e−05
8e−05
0
200
400
600
800
TimePoints


RGI
tet(36)
ANOVA Pval: 0.479
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0.00025
0.00030
0
200
400
600
800
TimePoints


RGI
lnuC
ANOVA Pval: 0.342
Relative Abundance
0e+00
5e−05
1e−04
0
200
400
600
800
TimePoints


RGI
mdeA
ANOVA Pval: 0.125
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0
200
400
600
800
TimePoints


RGI
adeF
ANOVA Pval: 0.644
Relative Abundance
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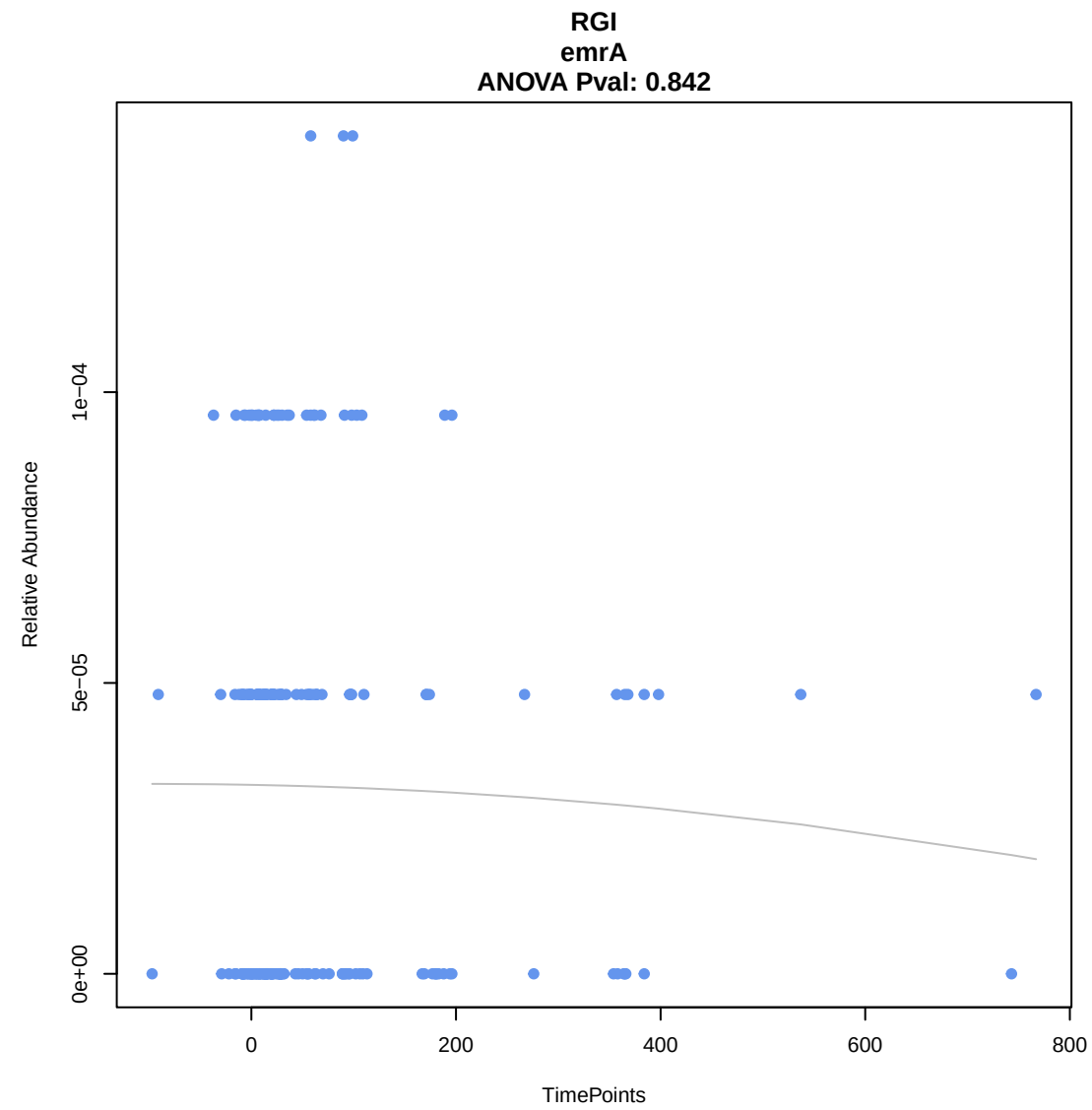
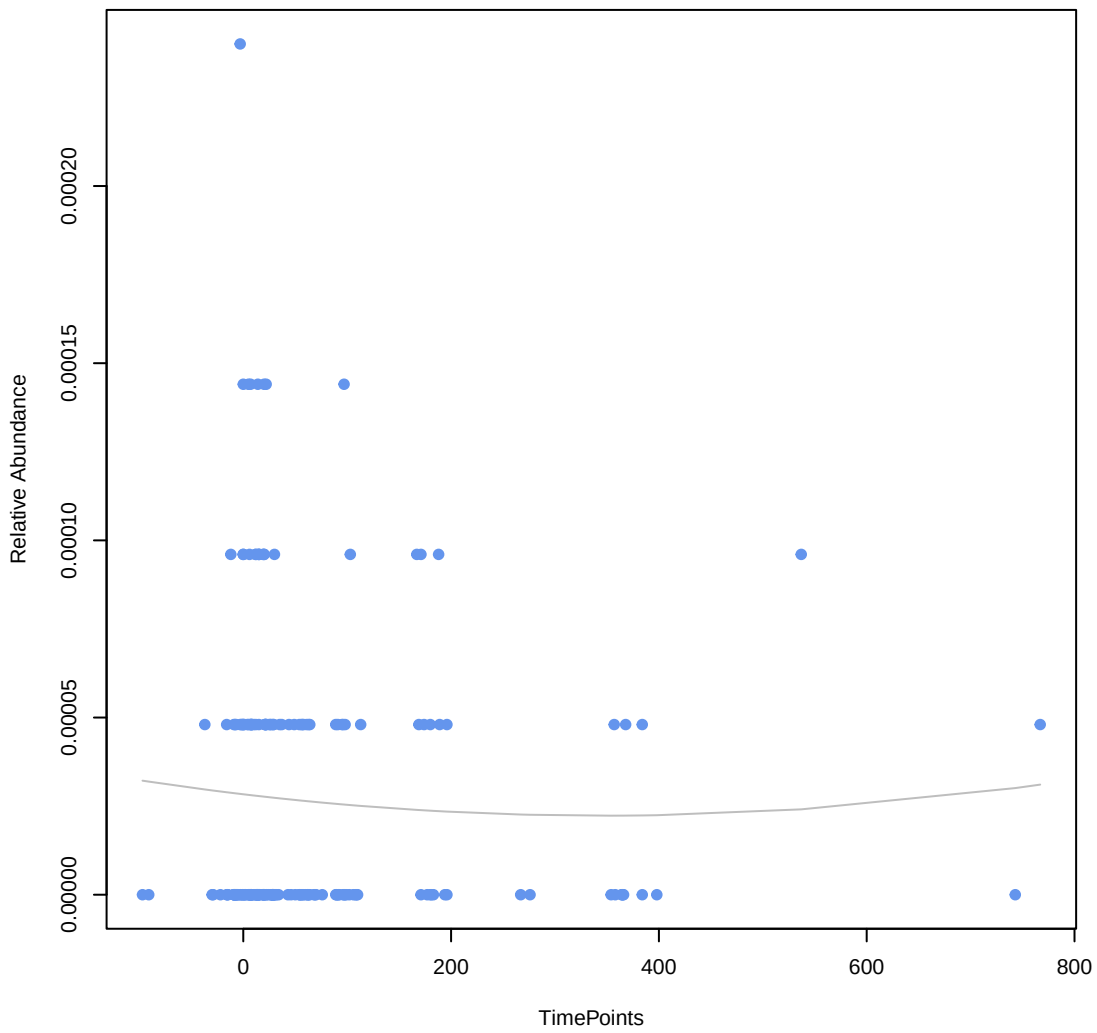
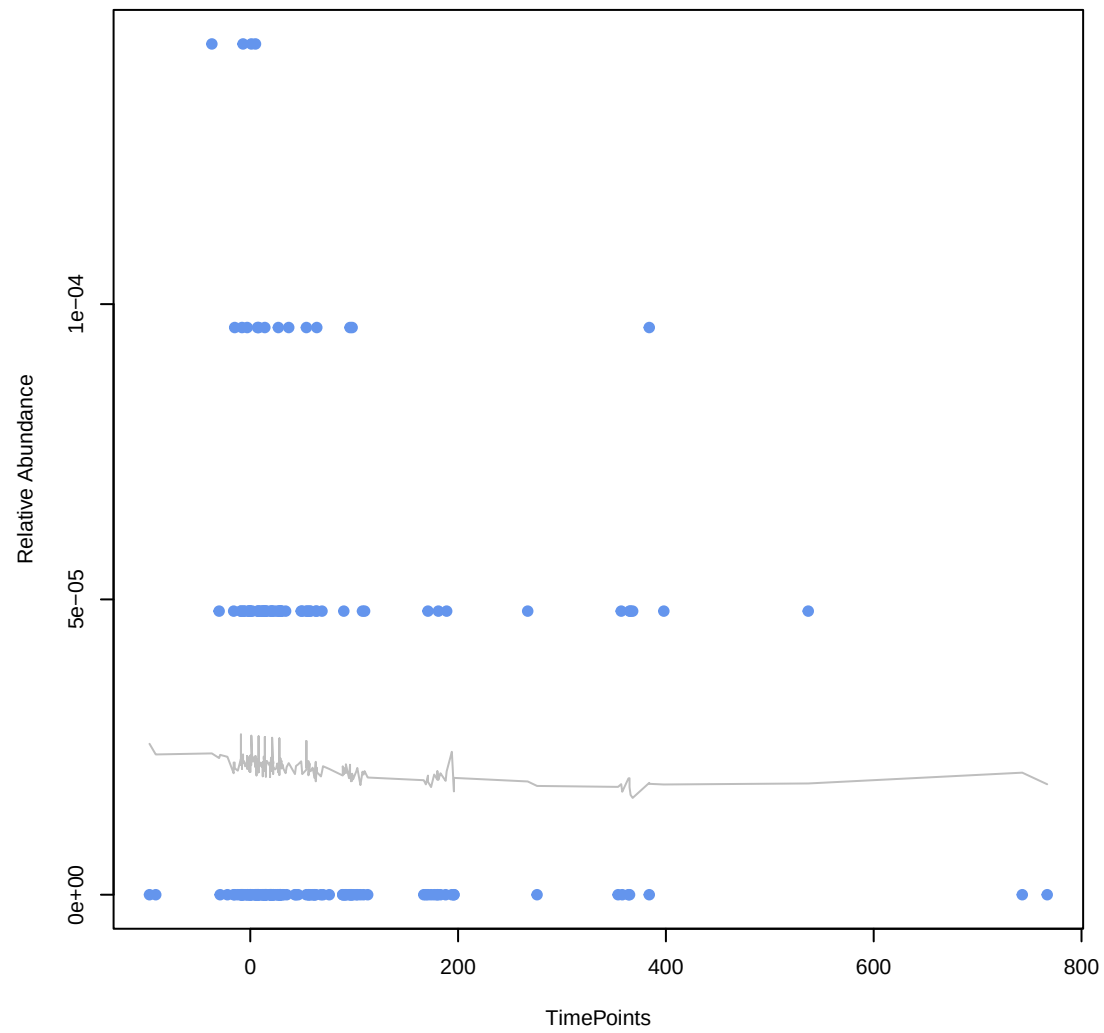
0.0002
0.0004
0.0006
0.0008
0.0010
0.0012
0
200
400
600
800
TimePoints


RGI
emrA
ANOVA Pval: 0.842
Relative Abundance
0e+00
5e−05
1e−04
0
200
400
600
800
TimePoints

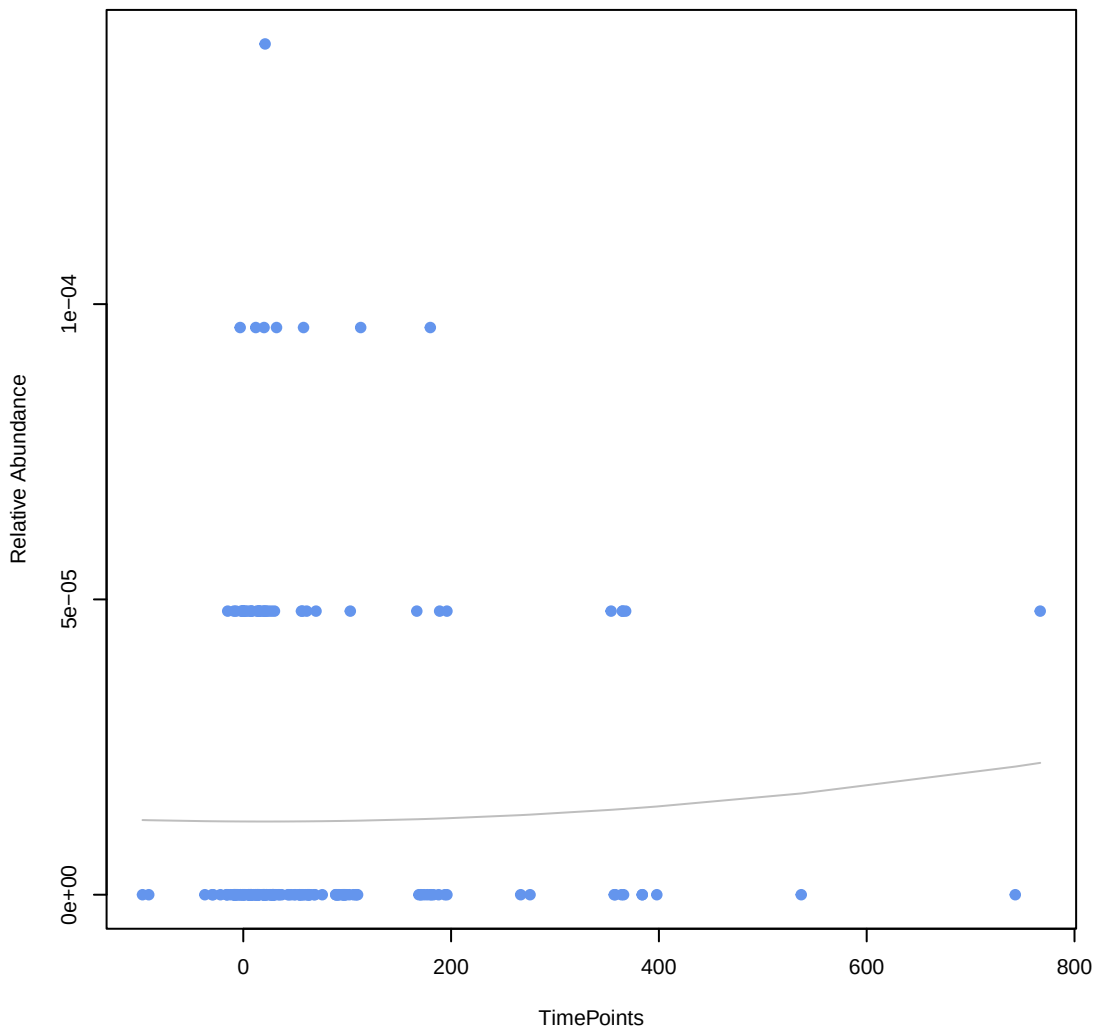
RGI
MuxC
ANOVA Pval: 0.794



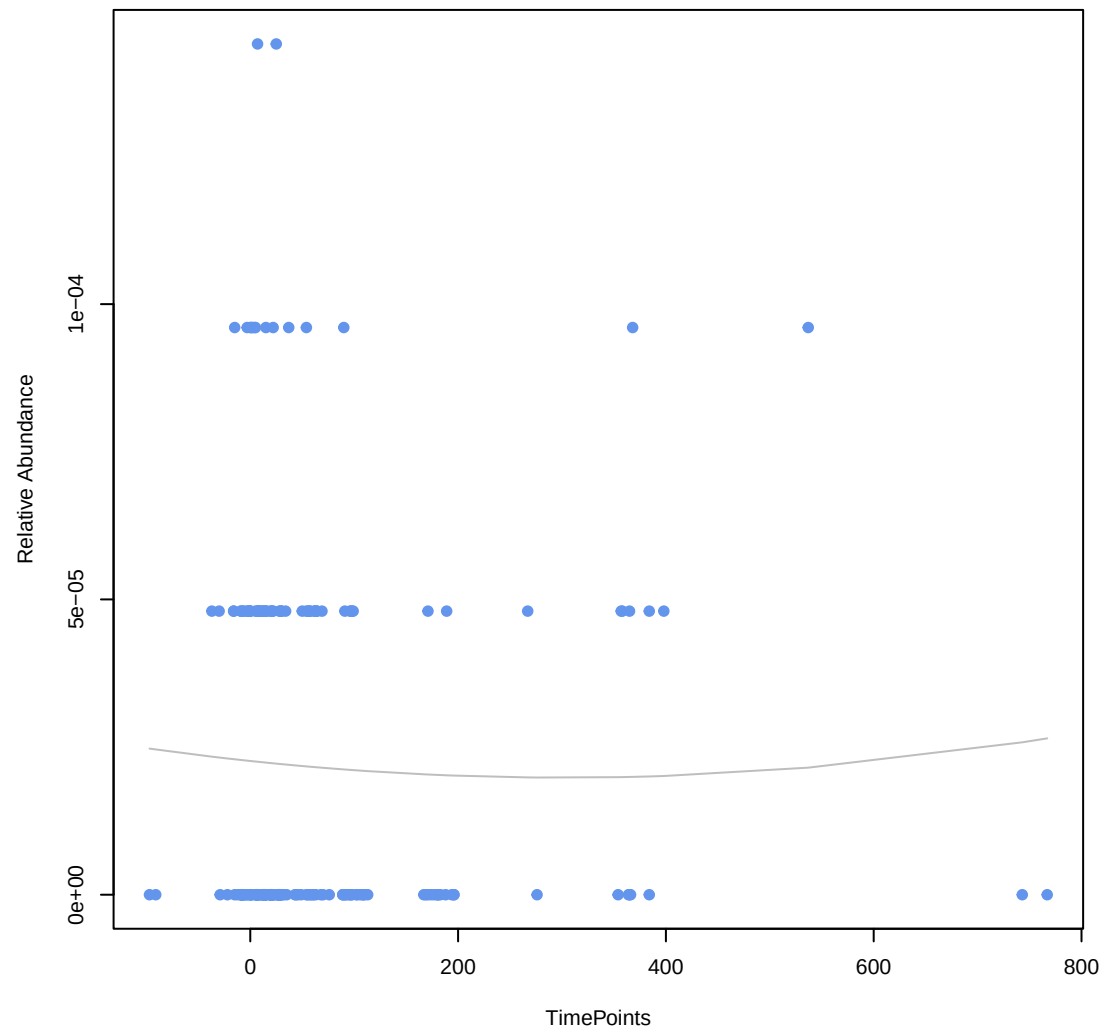

RGI
emrK
ANOVA Pval: 0.887



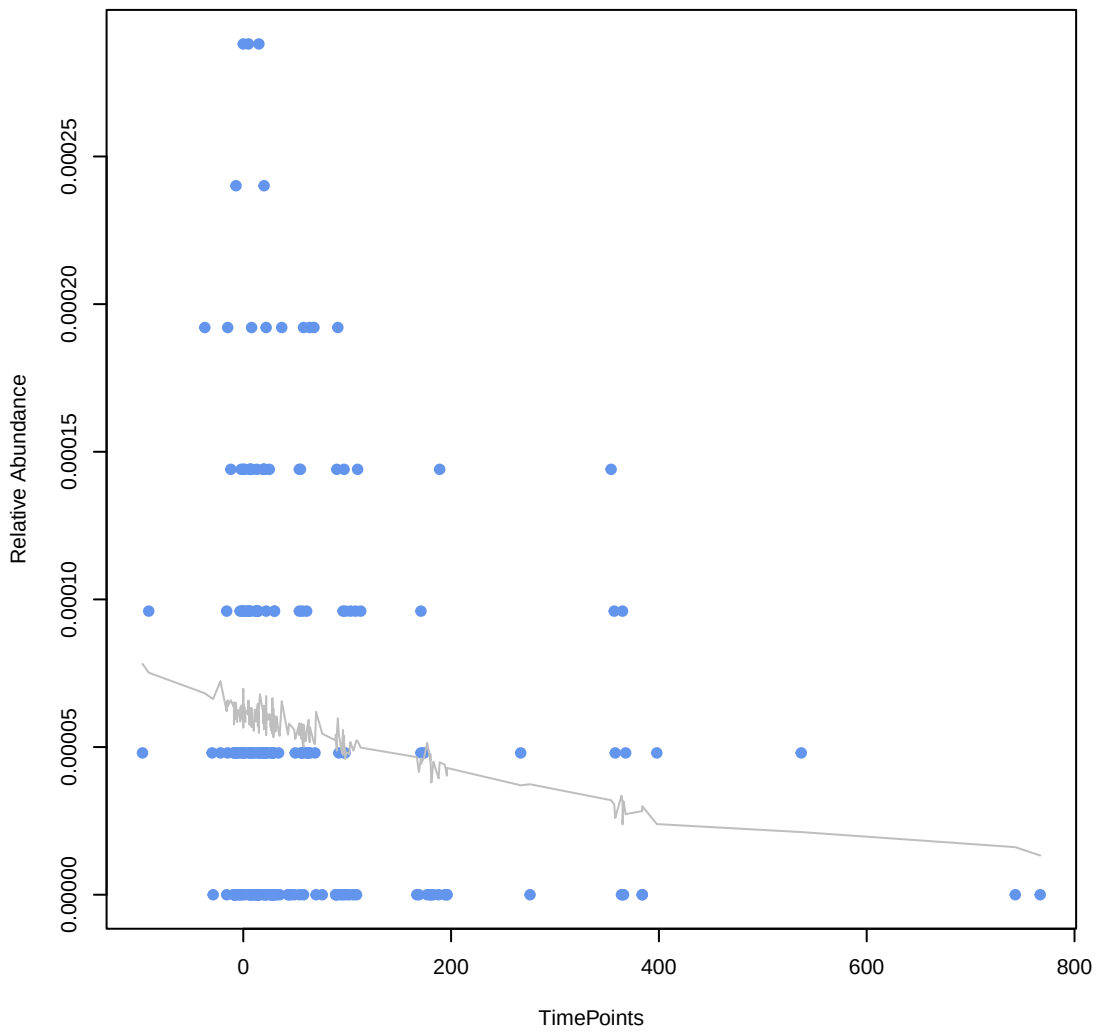

RGI
Klebsiella pneumoniae acrA
ANOVA Pval: 0.832



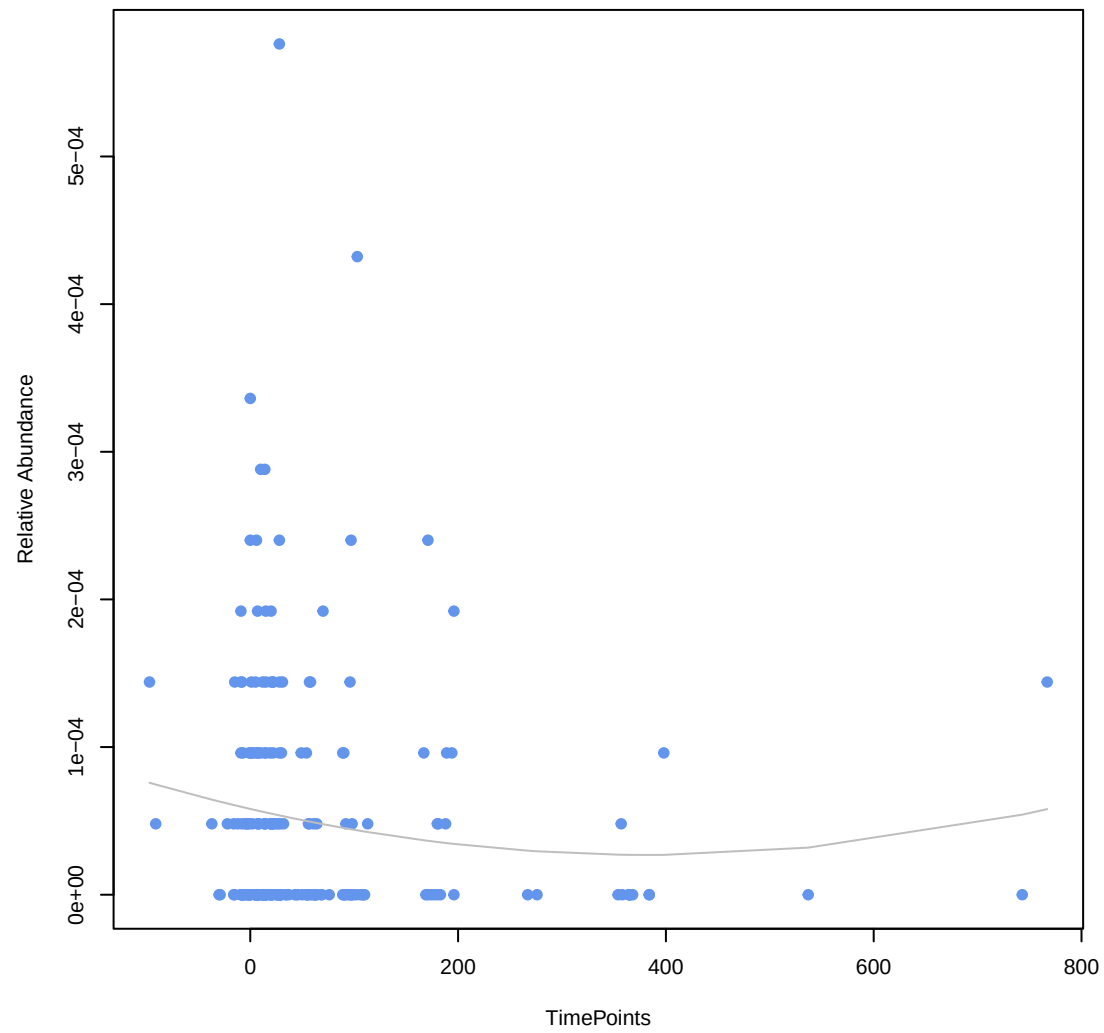

RGI
mdtE
ANOVA Pval: 0.903

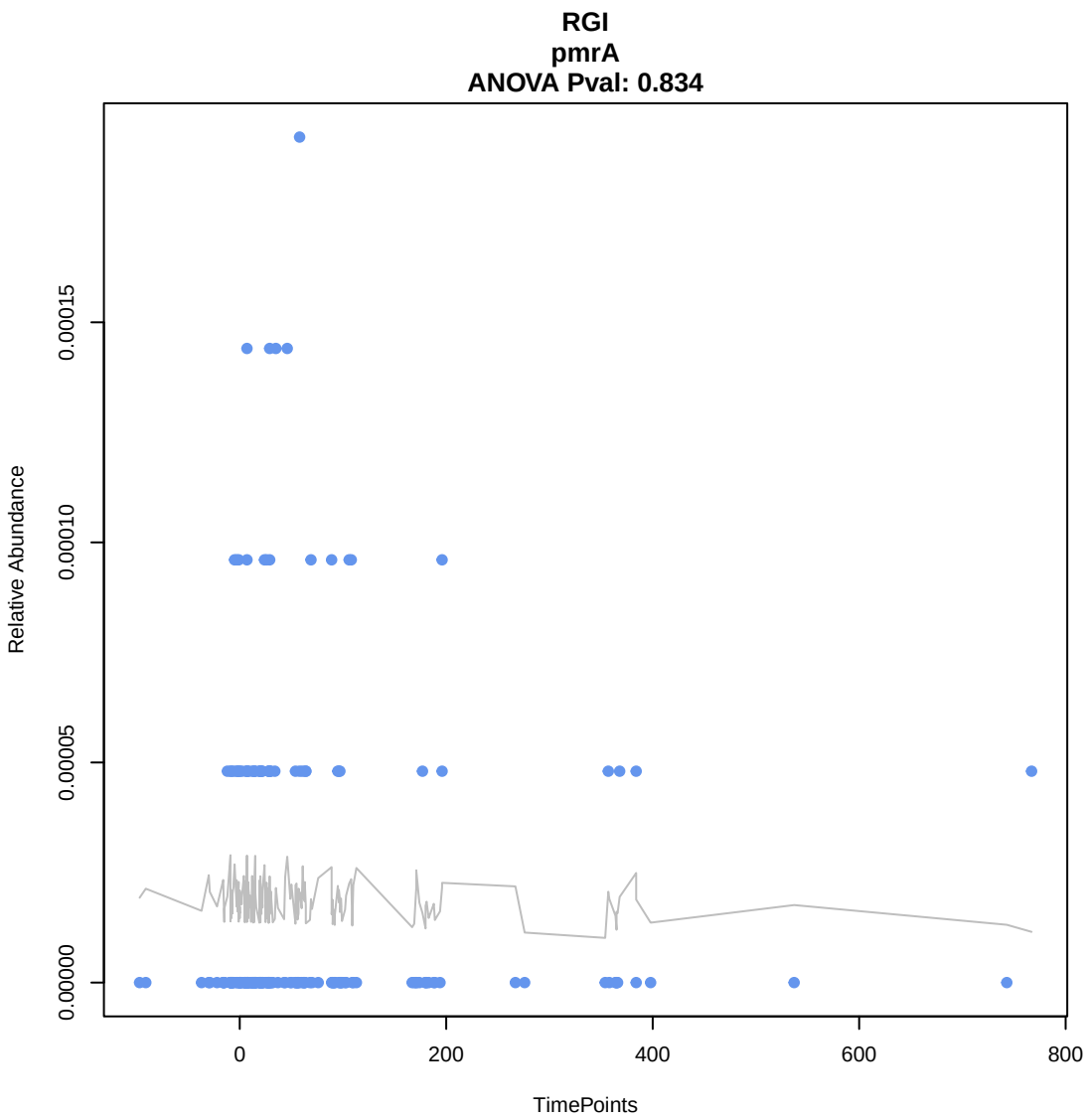


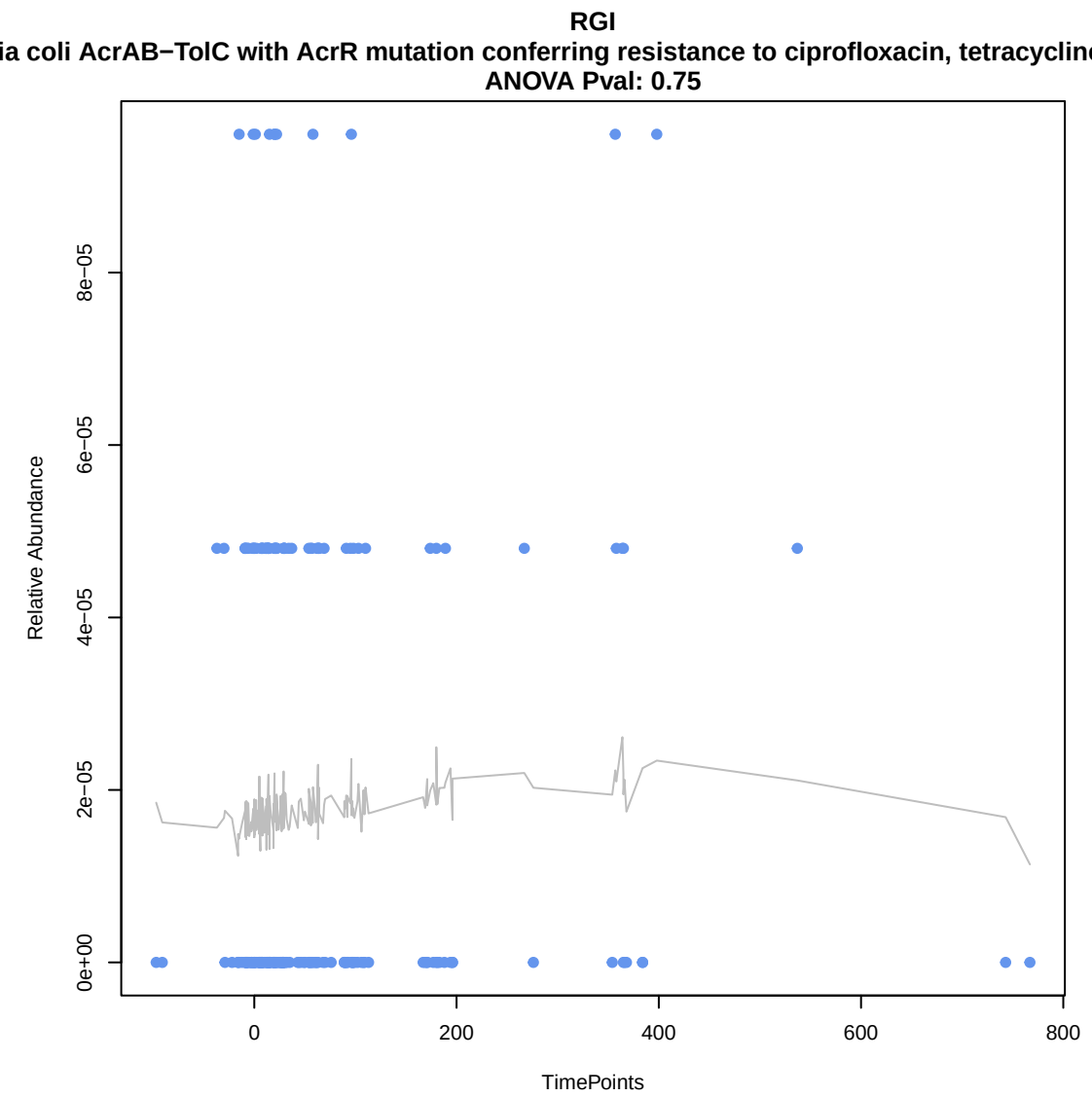

RGI
msbA
ANOVA Pval: 0.0872

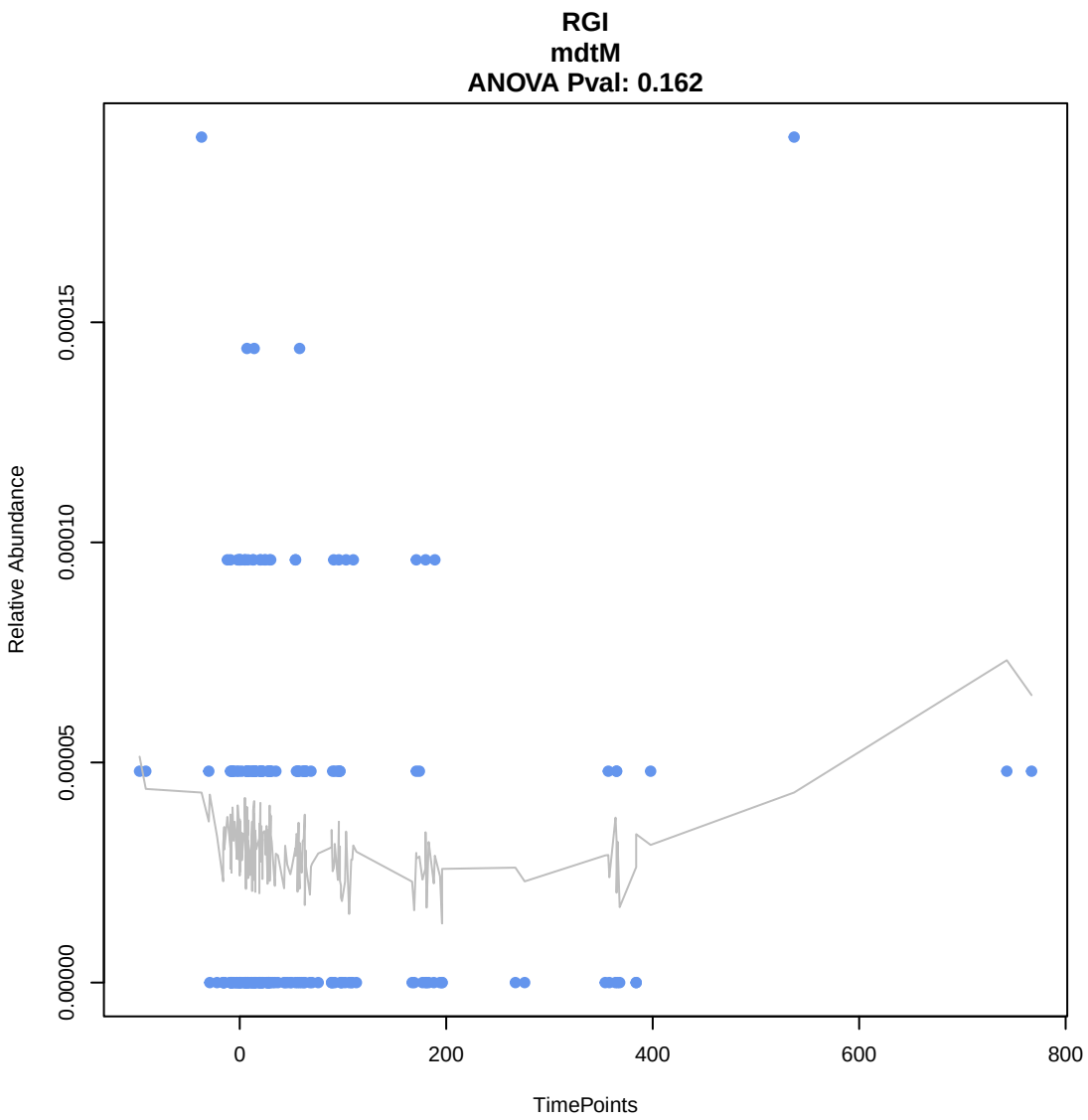


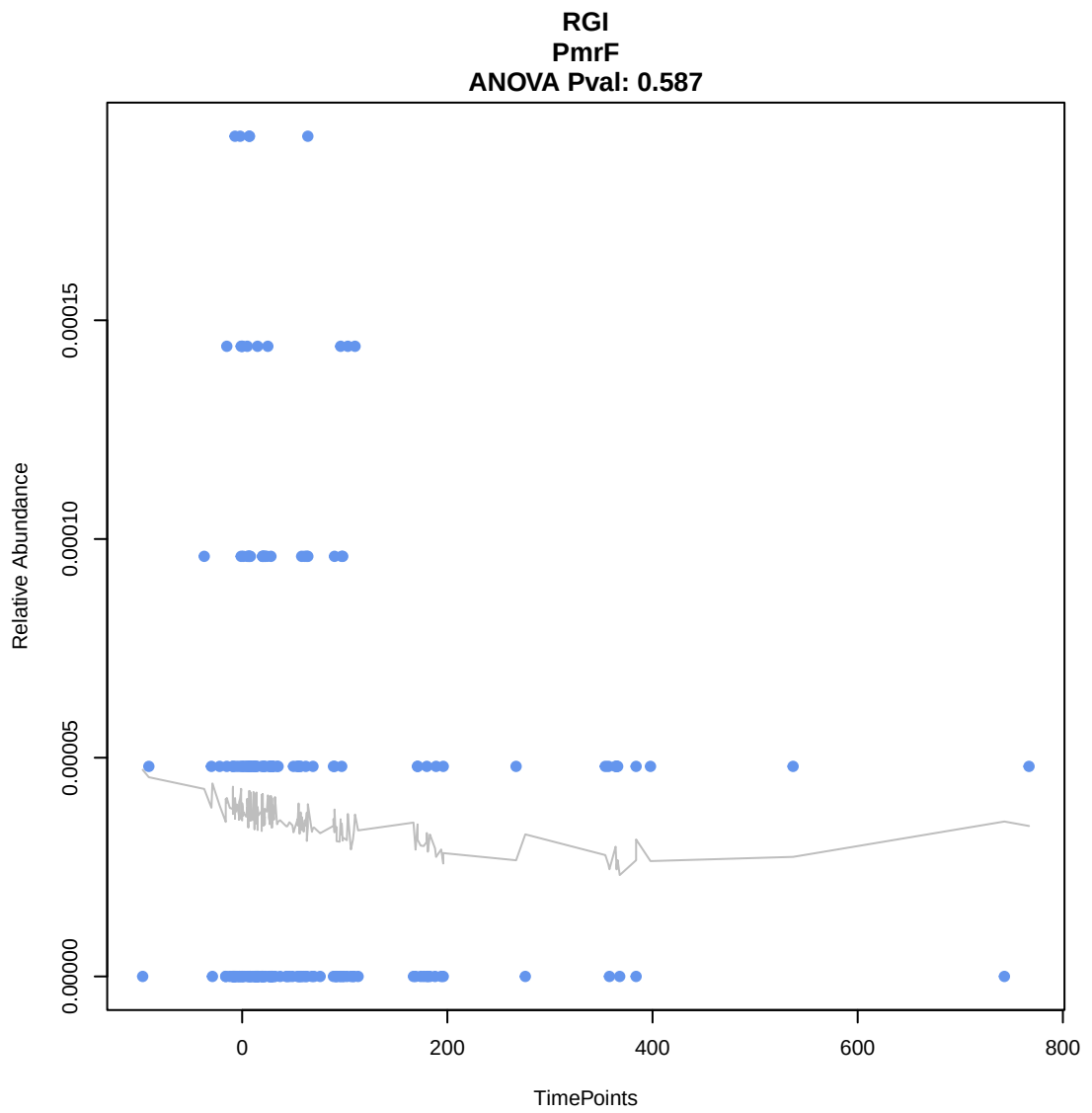

RGI
nimA
ANOVA Pval: 0.256

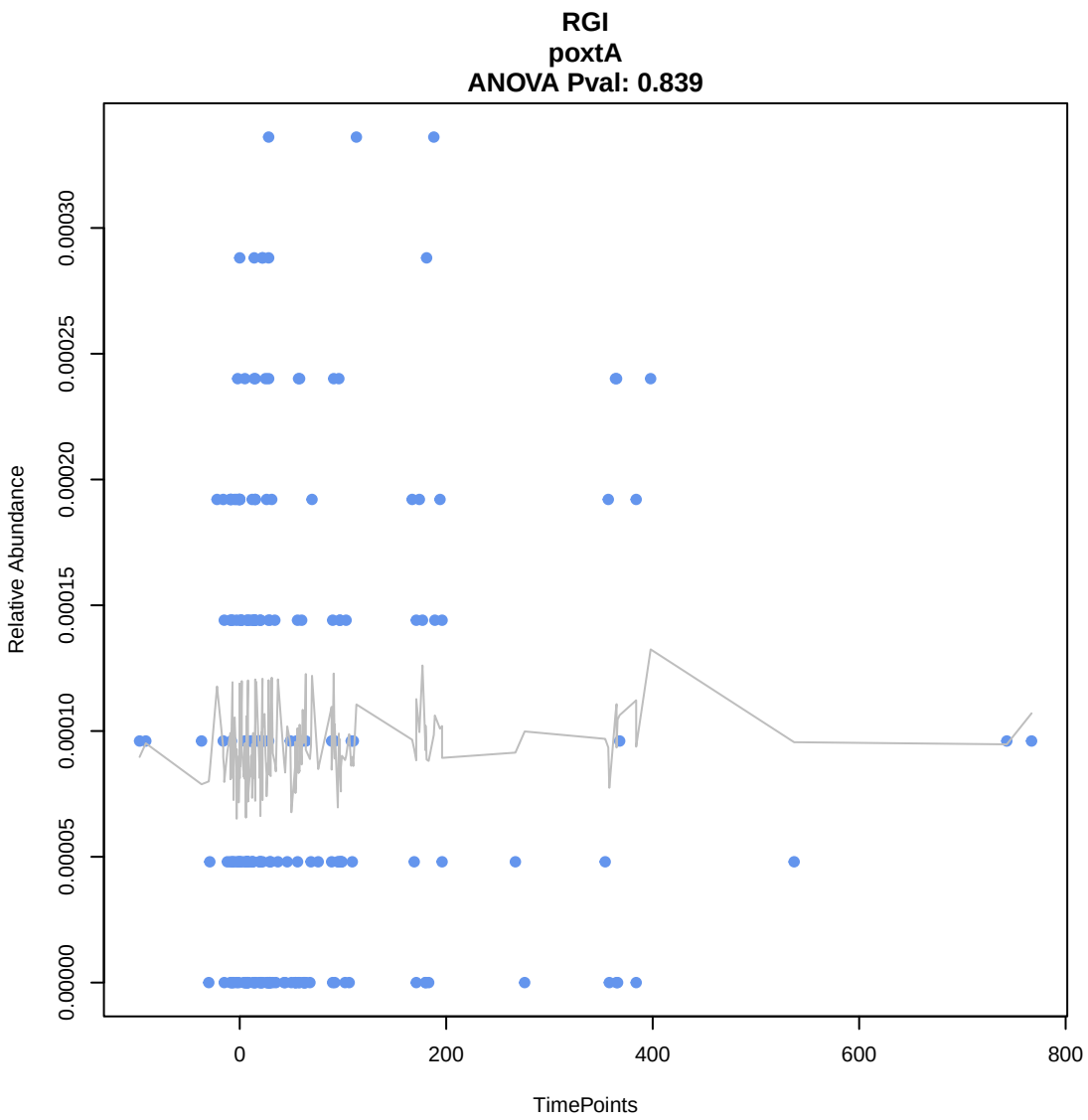


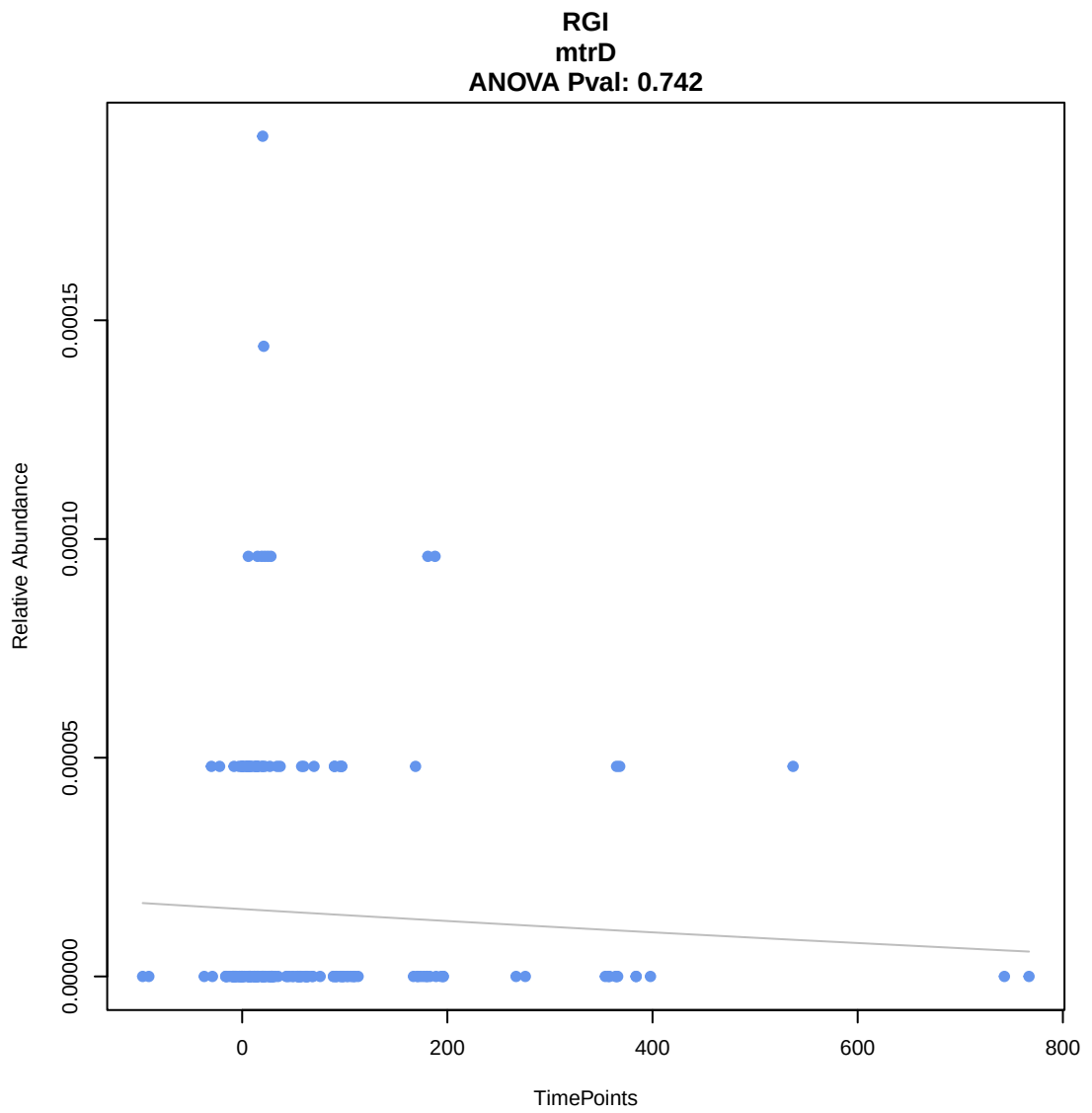

RGI
pmrA
ANOVA Pval: 0.834
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

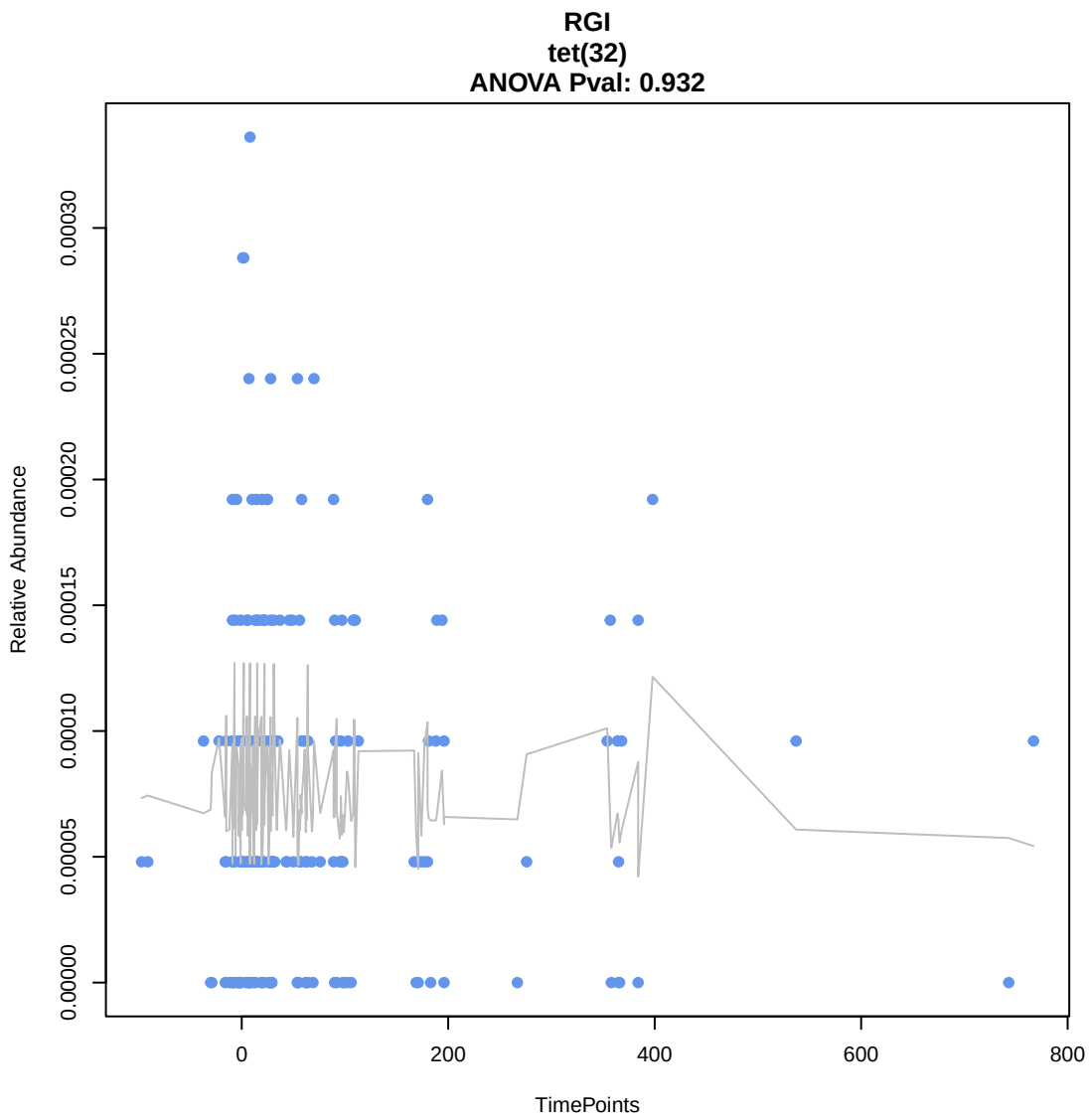

RGI
chia coli AcrAB−TolC with AcrR mutation conferring resistance to ciprofloxacin, tetracycline
ANOVA Pval: 0.75
Relative Abundance
0e+00
2e−05
4e−05
6e−05
8e−05
0
200
400
600
800
TimePoints

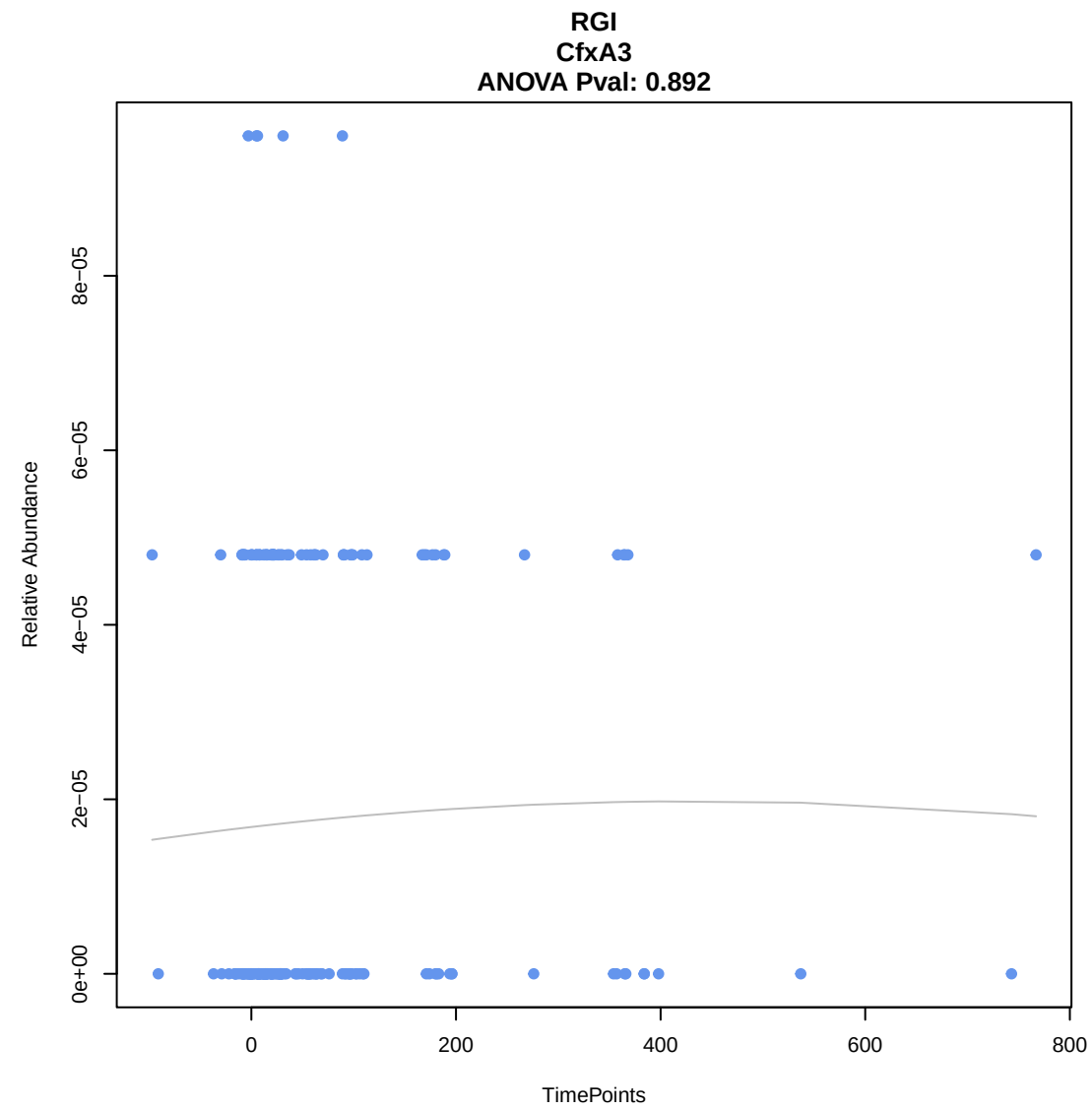

RGI
mdtM
ANOVA Pval: 0.162
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

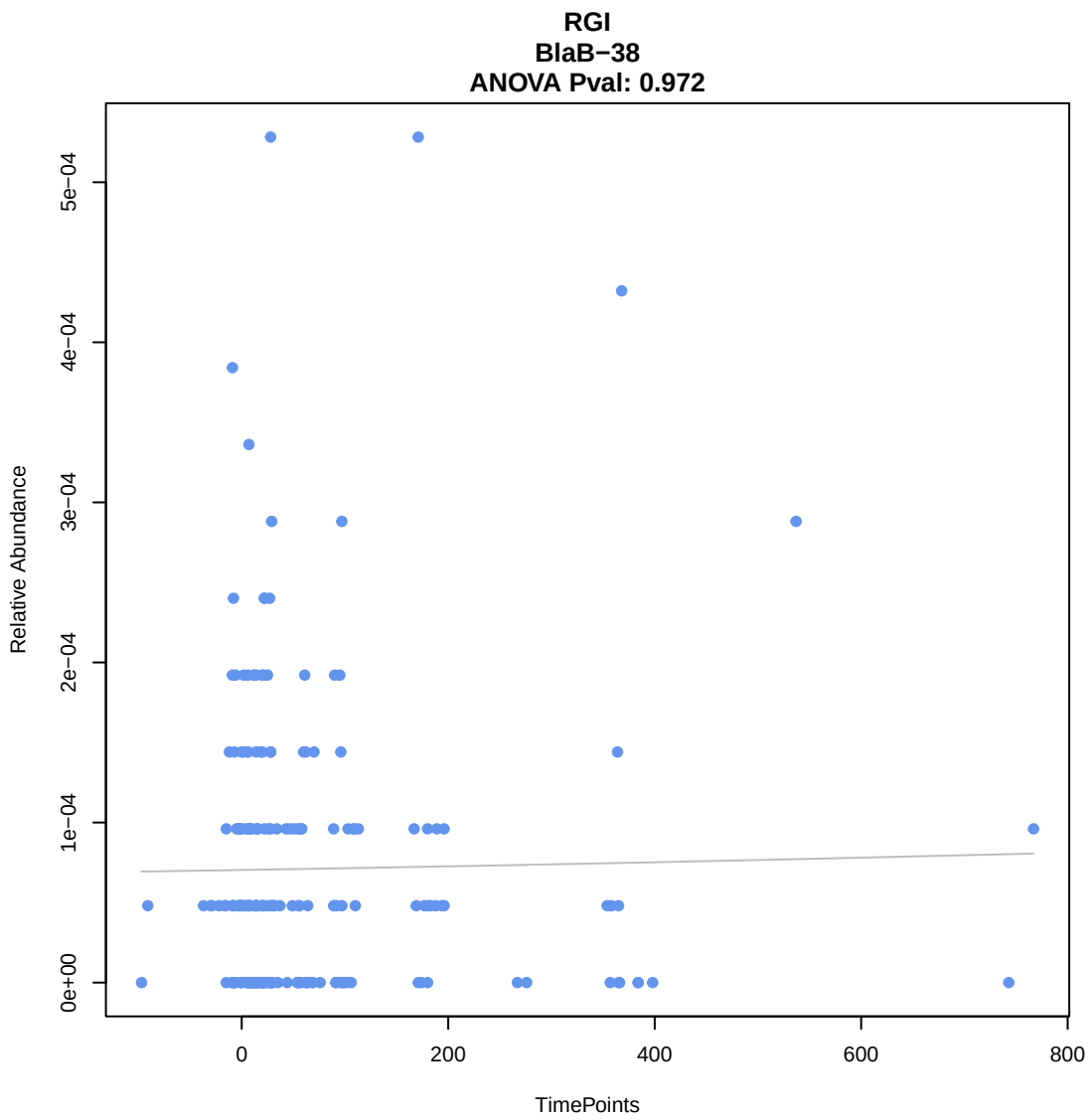

RGI
PmrF
ANOVA Pval: 0.587
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

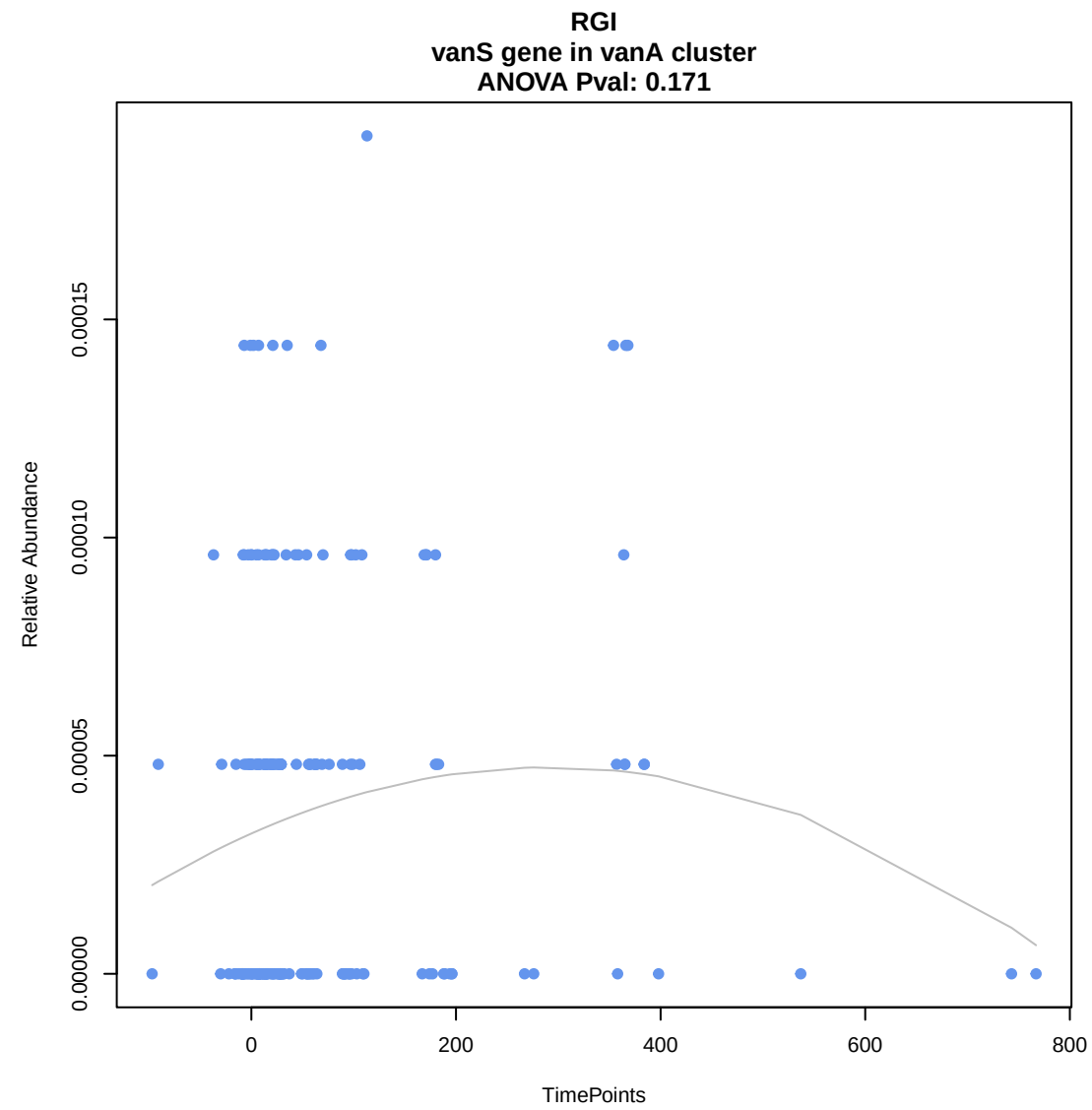

RGI
poxtA
ANOVA Pval: 0.839
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0.00025
0.00030
0
200
400
600
800
TimePoints

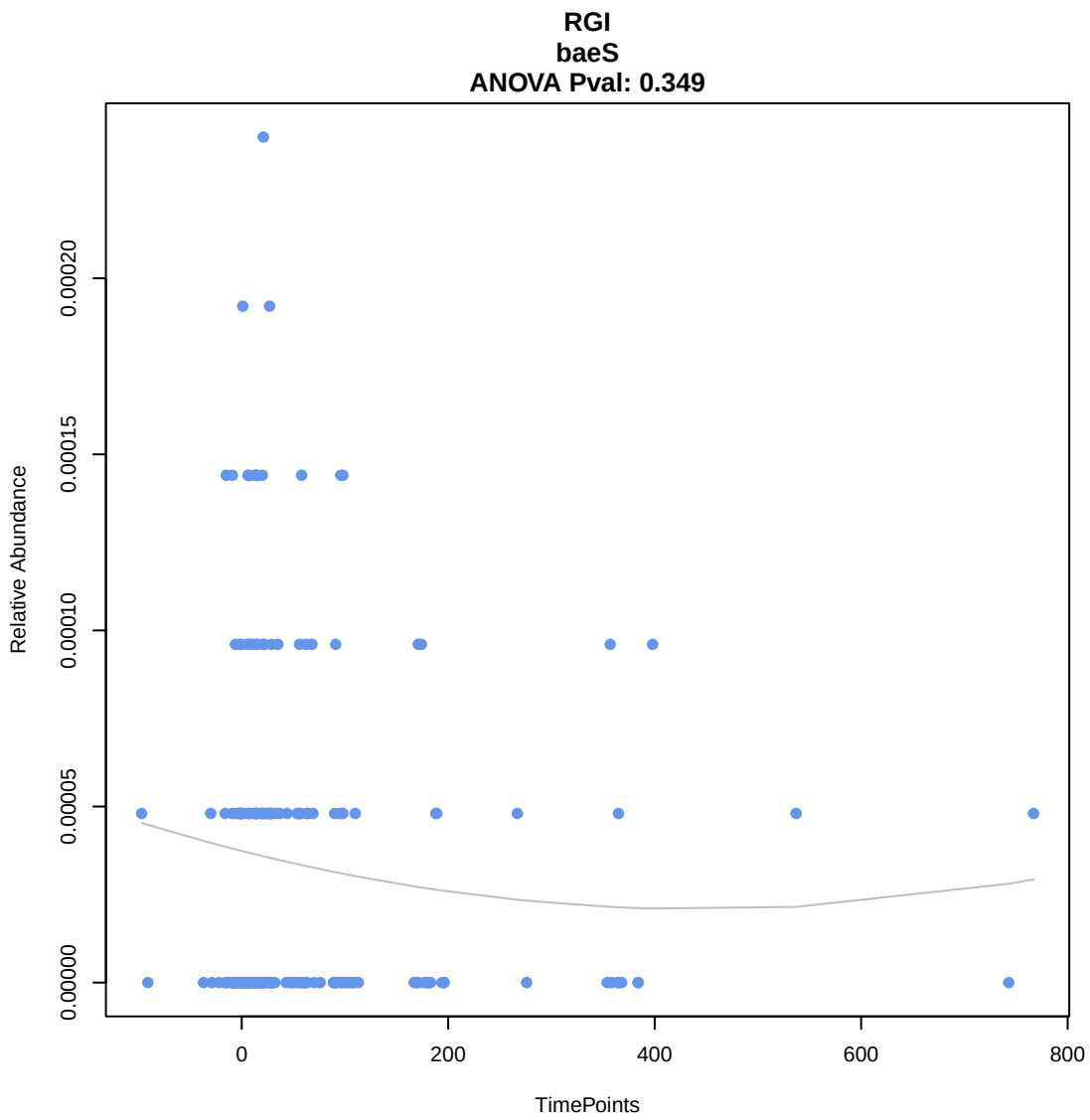

RGI
mtrD
ANOVA Pval: 0.742
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

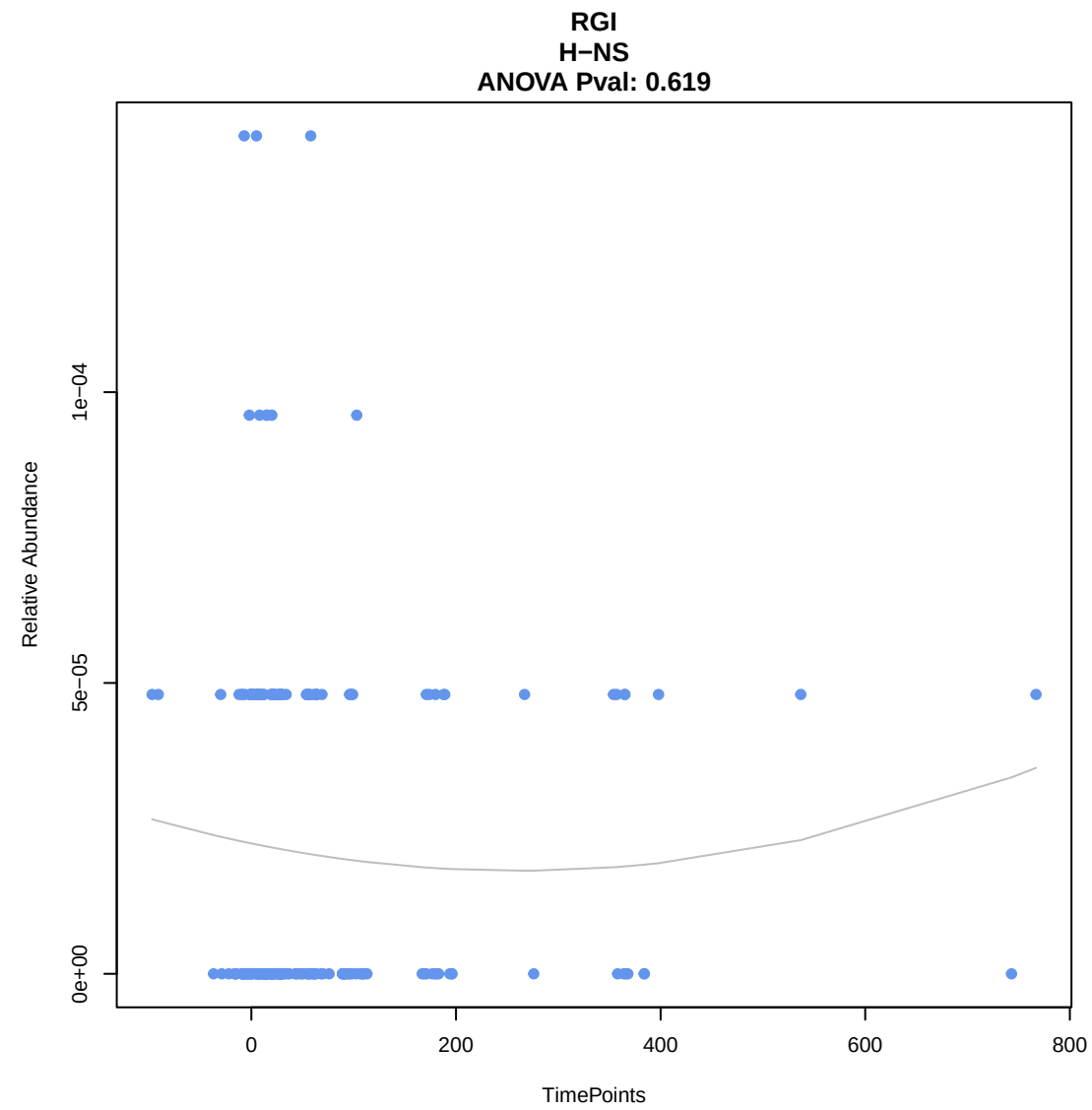

RGI
tet(32)
ANOVA Pval: 0.932
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0.00025
0.00030
0
200
400
600
800
TimePoints

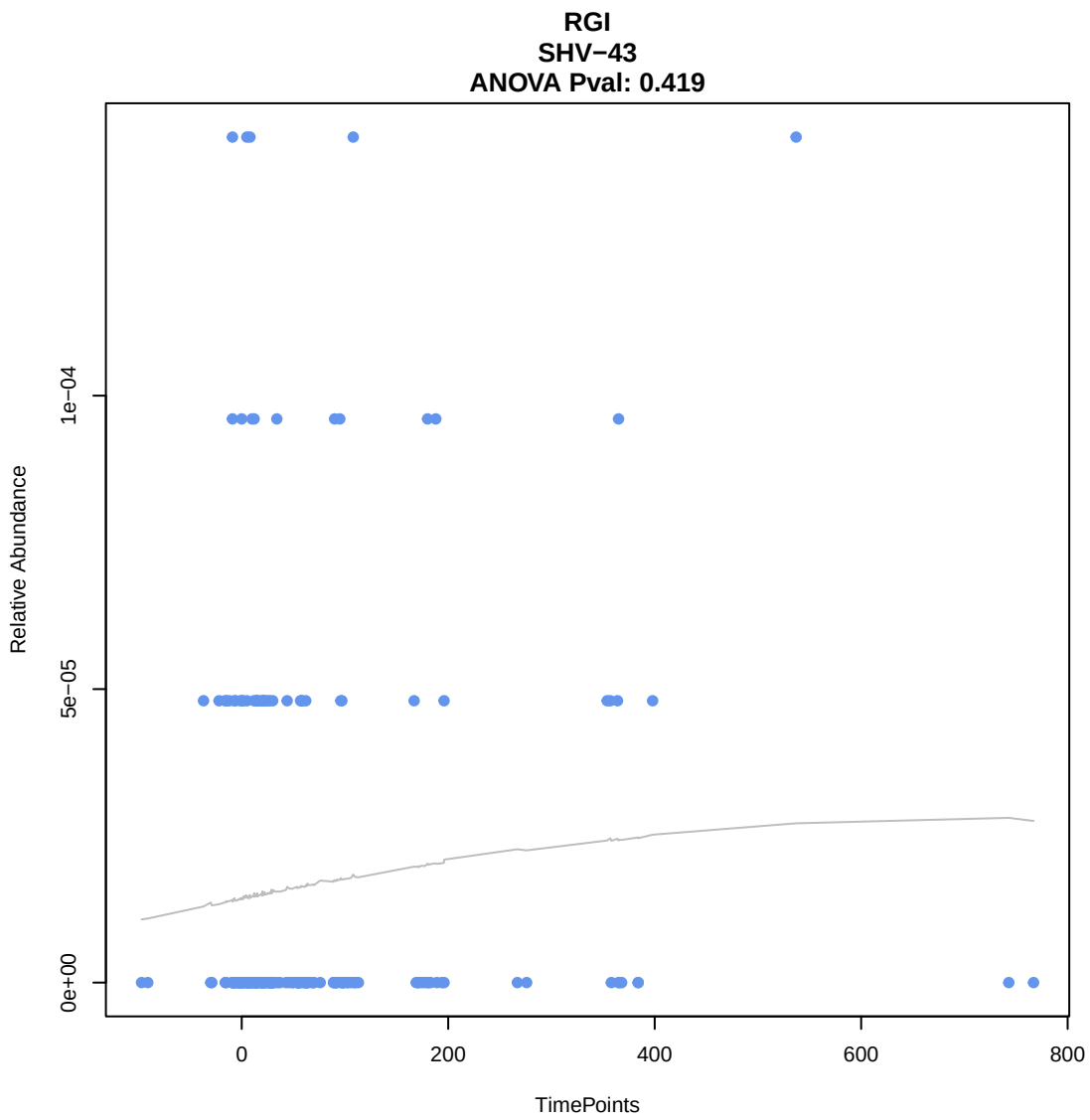

RGI
CfxA3
ANOVA Pval: 0.892
Relative Abundance
0e+00
2e−05
4e−05
6e−05
8e−05
0
200
400
600
800
TimePoints

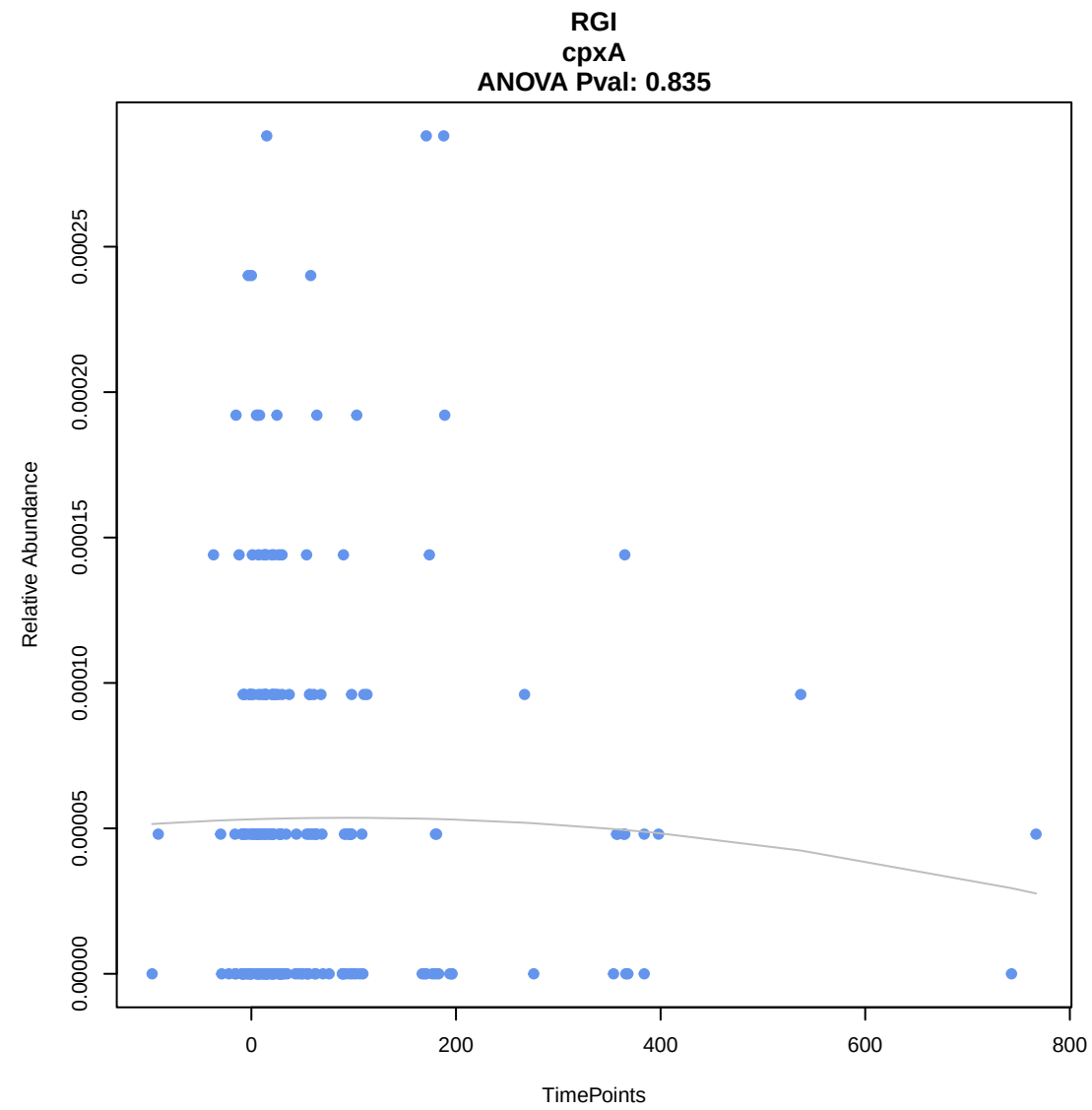

RGI
BlaB−38
ANOVA Pval: 0.972
Relative Abundance
0e+00
1e−04
2e−04
3e−04
4e−04
5e−04
0
200
400
600
800
TimePoints

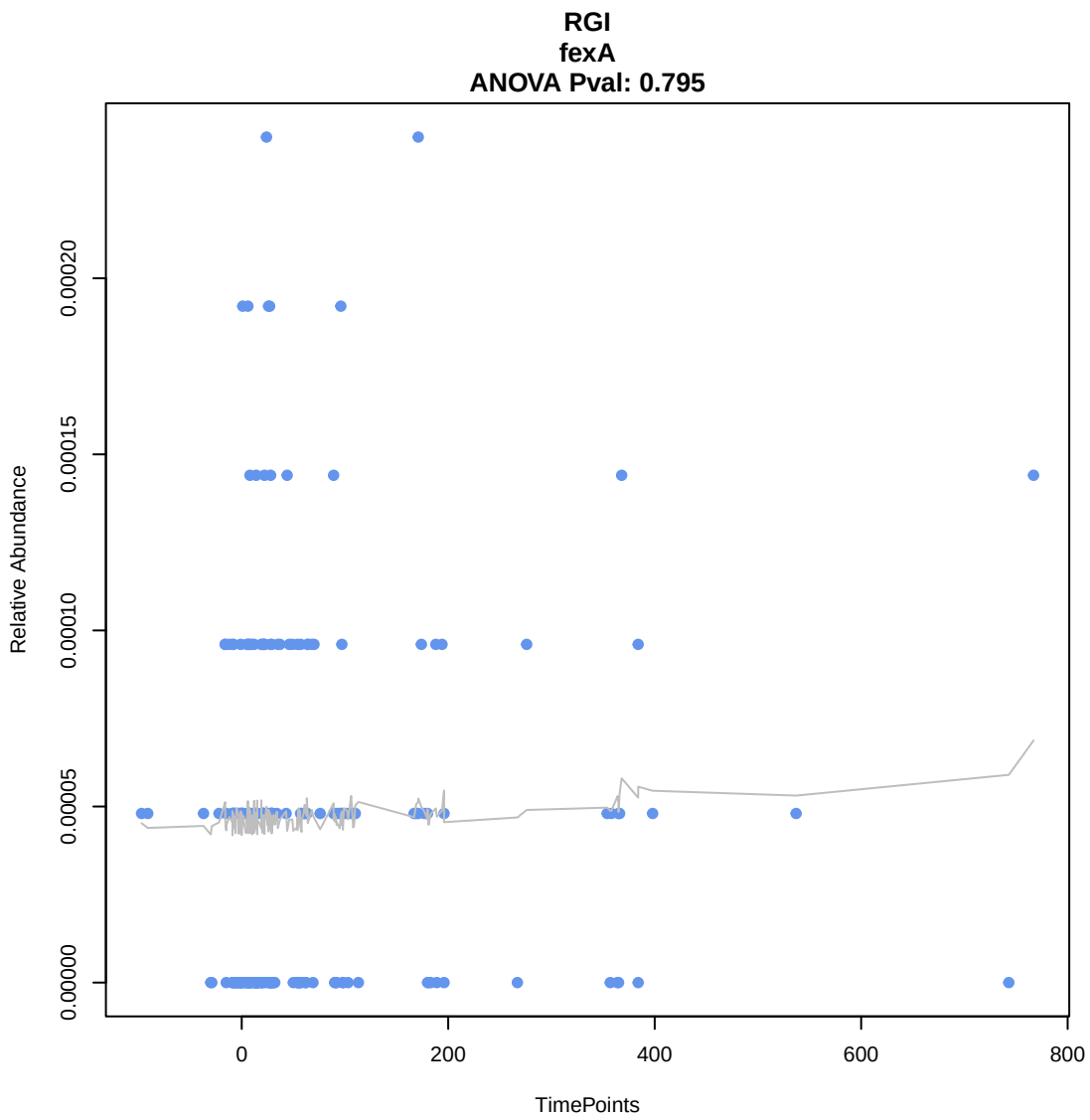

RGI
vanS gene in vanA cluster
ANOVA Pval: 0.171
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

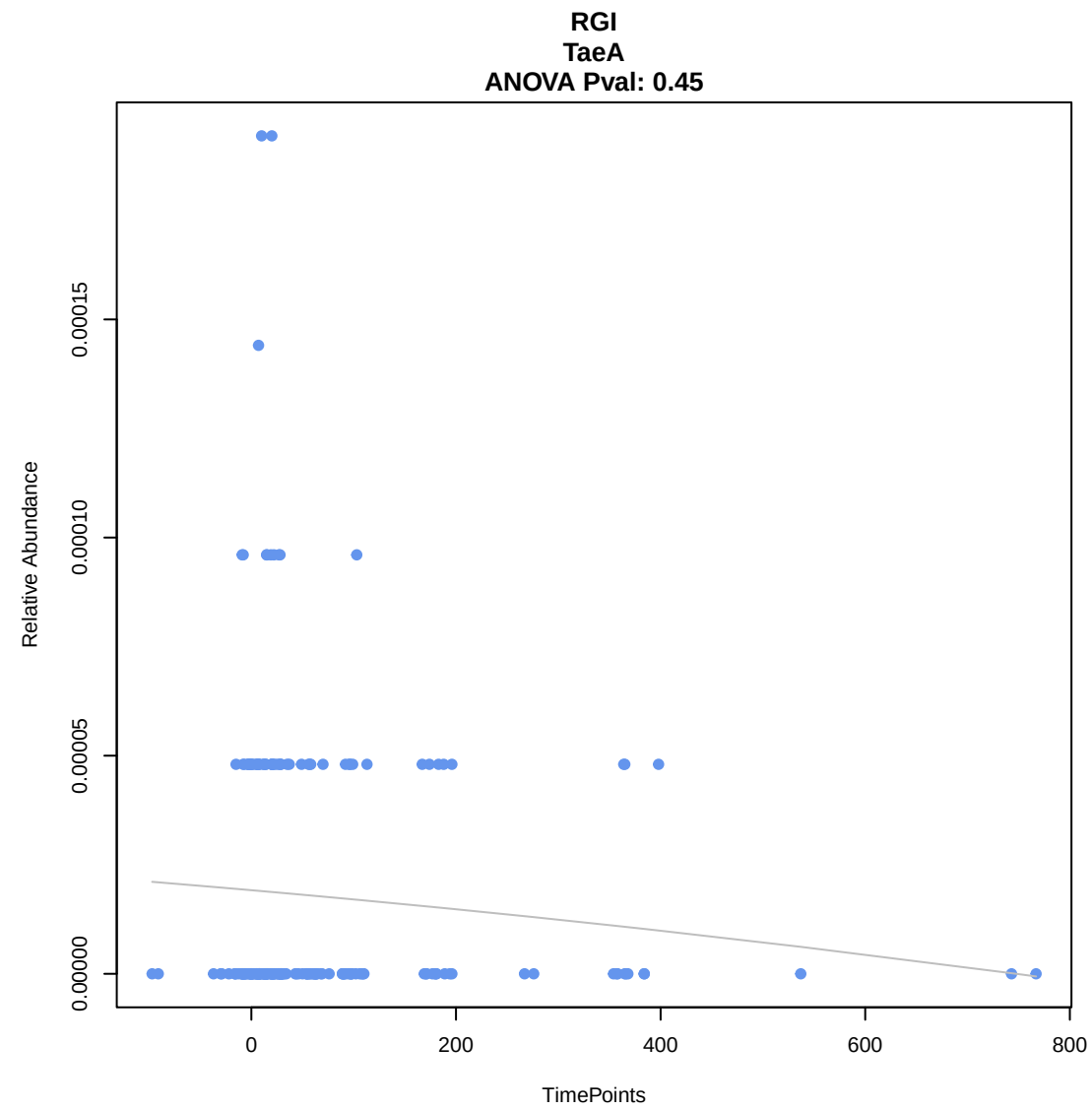

RGI
baeS
ANOVA Pval: 0.349
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0
200
400
600
800
TimePoints

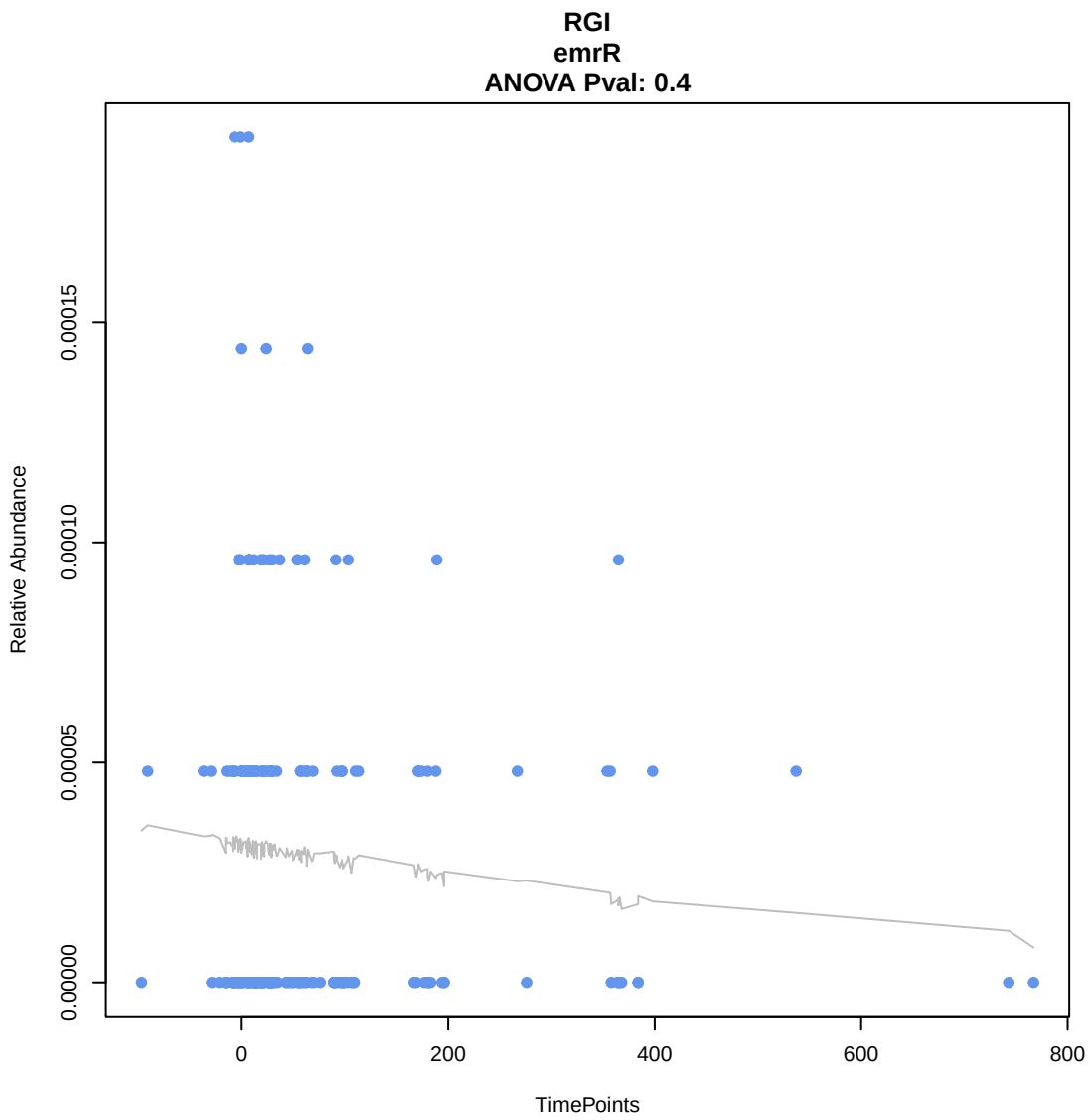

RGI
H−NS
ANOVA Pval: 0.619
Relative Abundance
0e+00
5e−05
1e−04
0
200
400
600
800
TimePoints

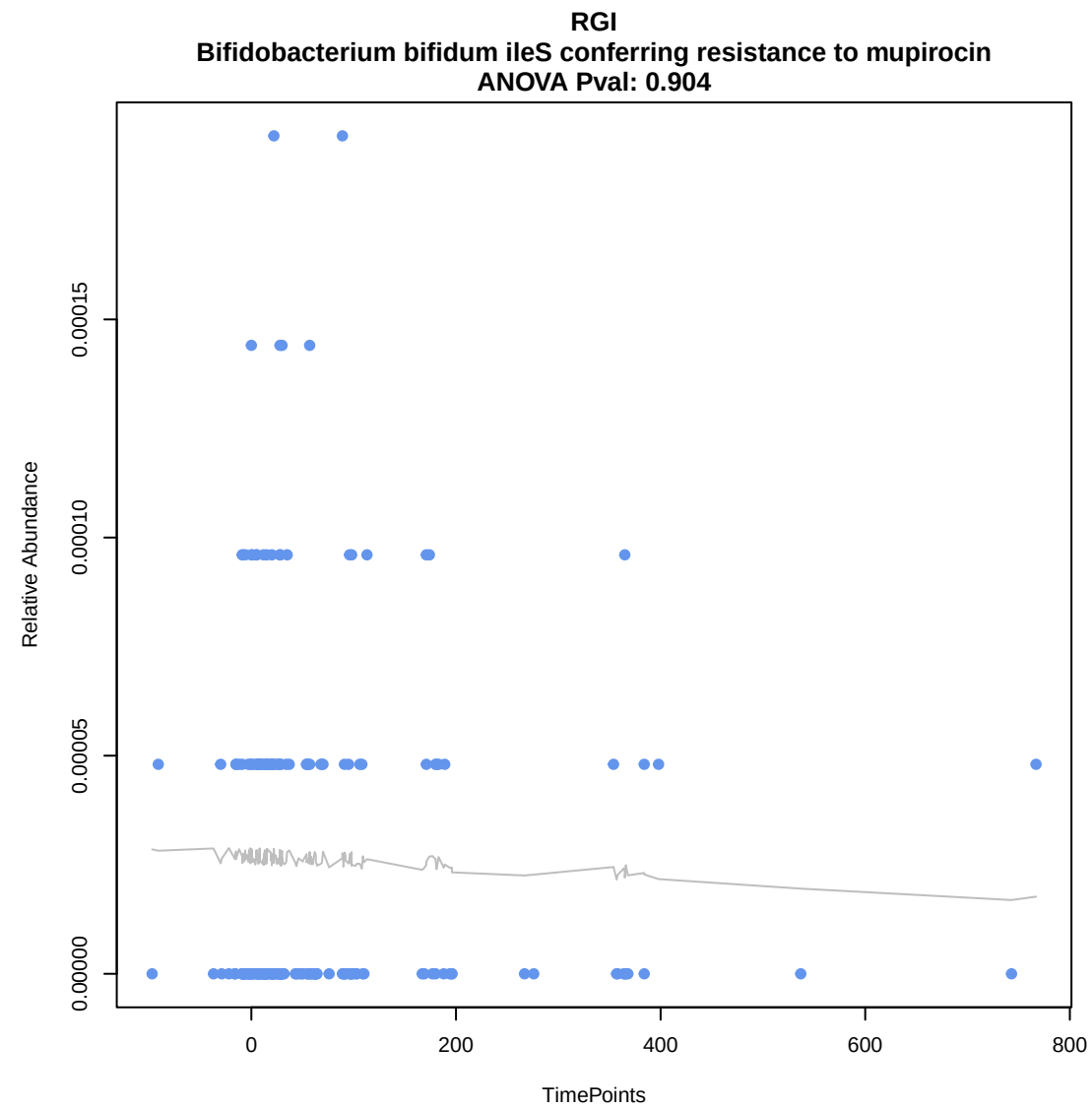

RGI
SHV−43
ANOVA Pval: 0.419
Relative Abundance
0e+00
5e−05
1e−04
0
200
400
600
800
TimePoints


RGI
cpxA
ANOVA Pval: 0.835
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0.00025
0
200
400
600
800
TimePoints

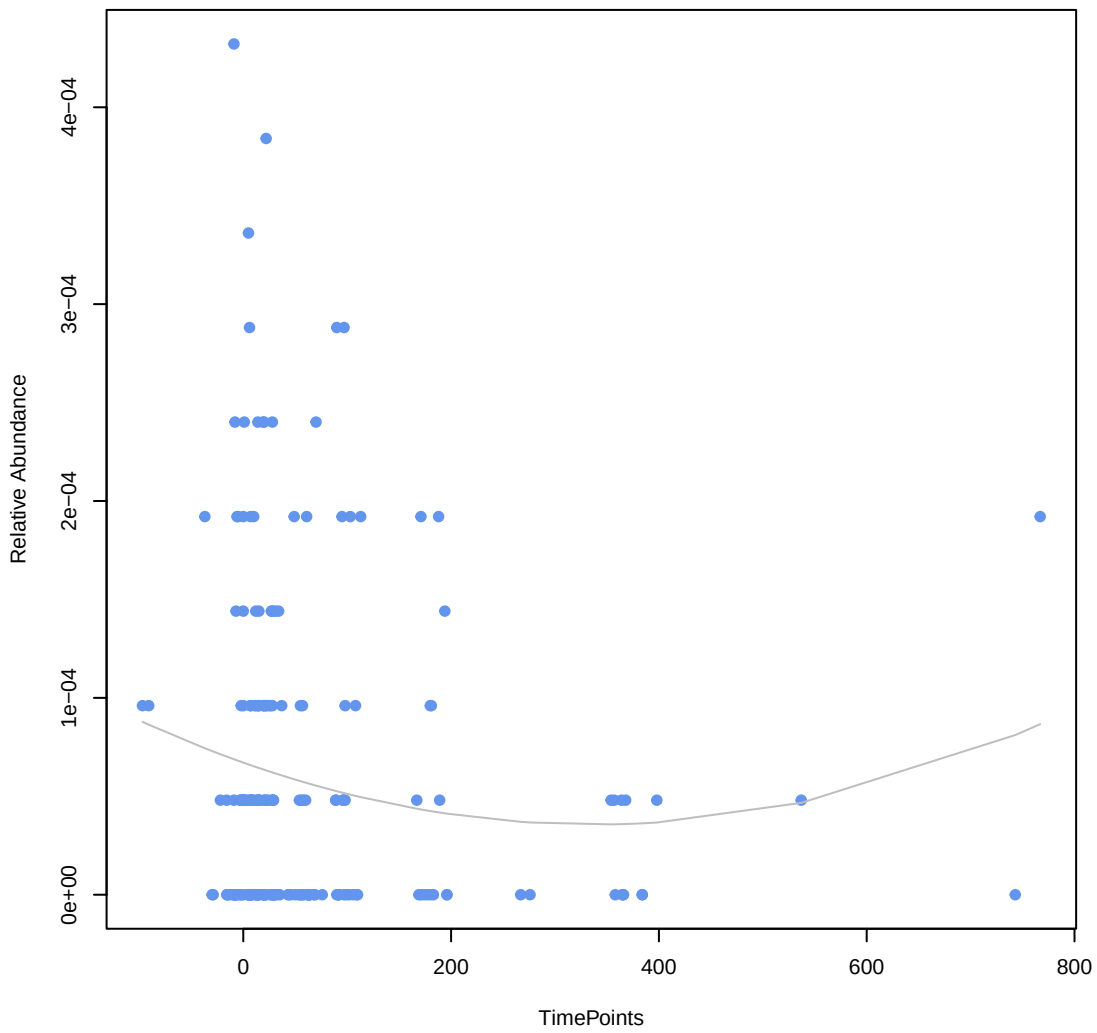

RGI
fexA
ANOVA Pval: 0.795
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0
200
400
600
800
TimePoints


RGI
TaeA
ANOVA Pval: 0.45
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

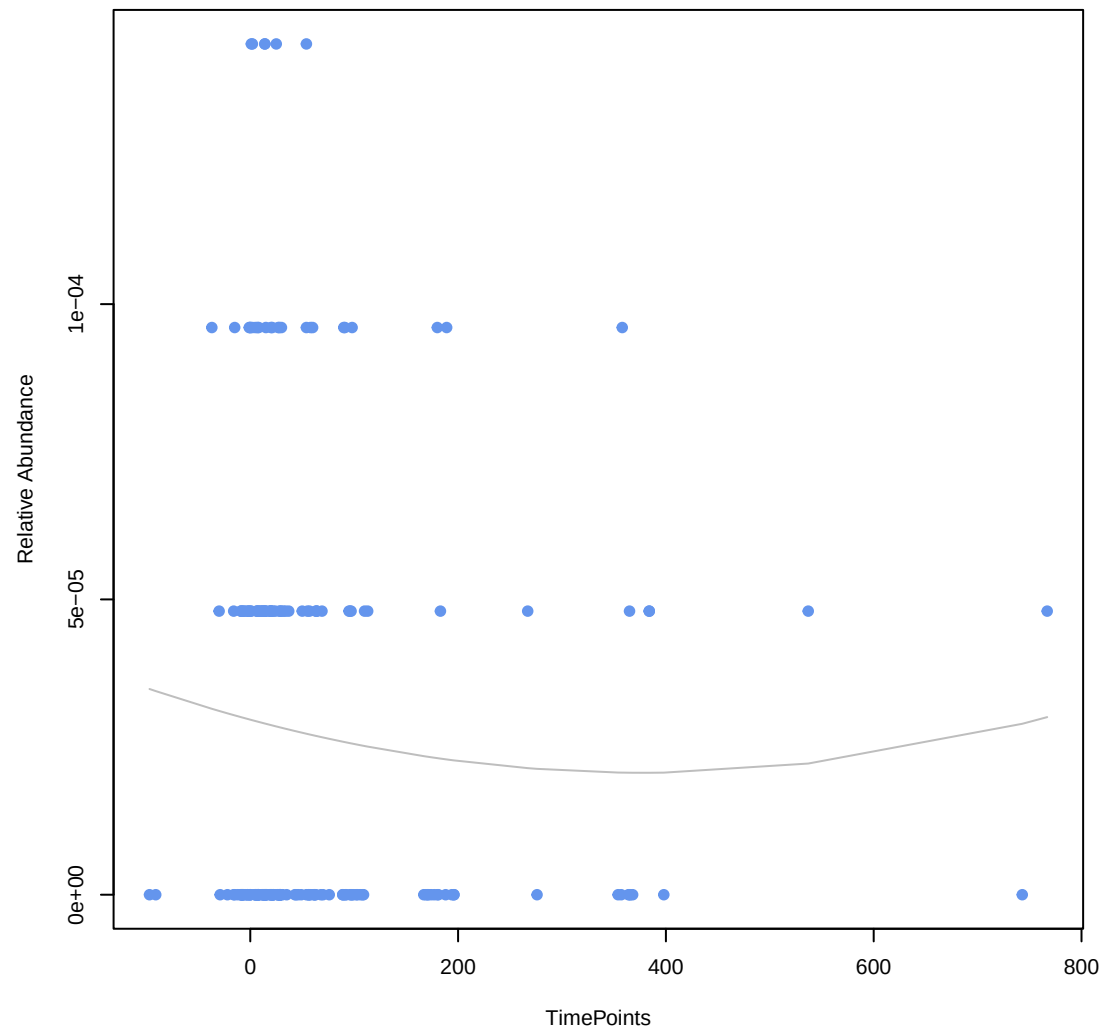

RGI
emrR
ANOVA Pval: 0.4
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints


RGI
Bifidobacterium bifidum ileS conferring resistance to mupirocin
ANOVA Pval: 0.904
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

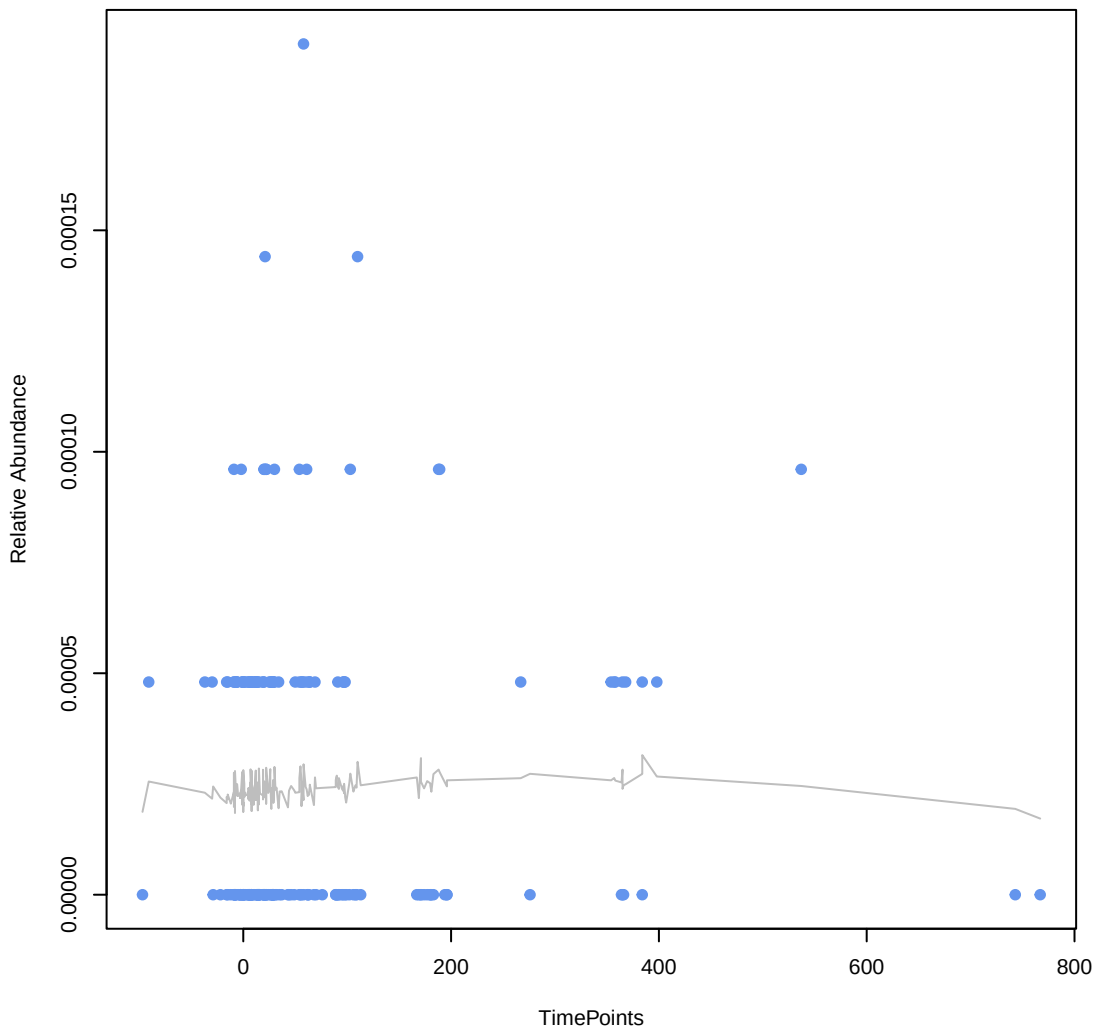
RGI
nimJ
ANOVA Pval: 0.203



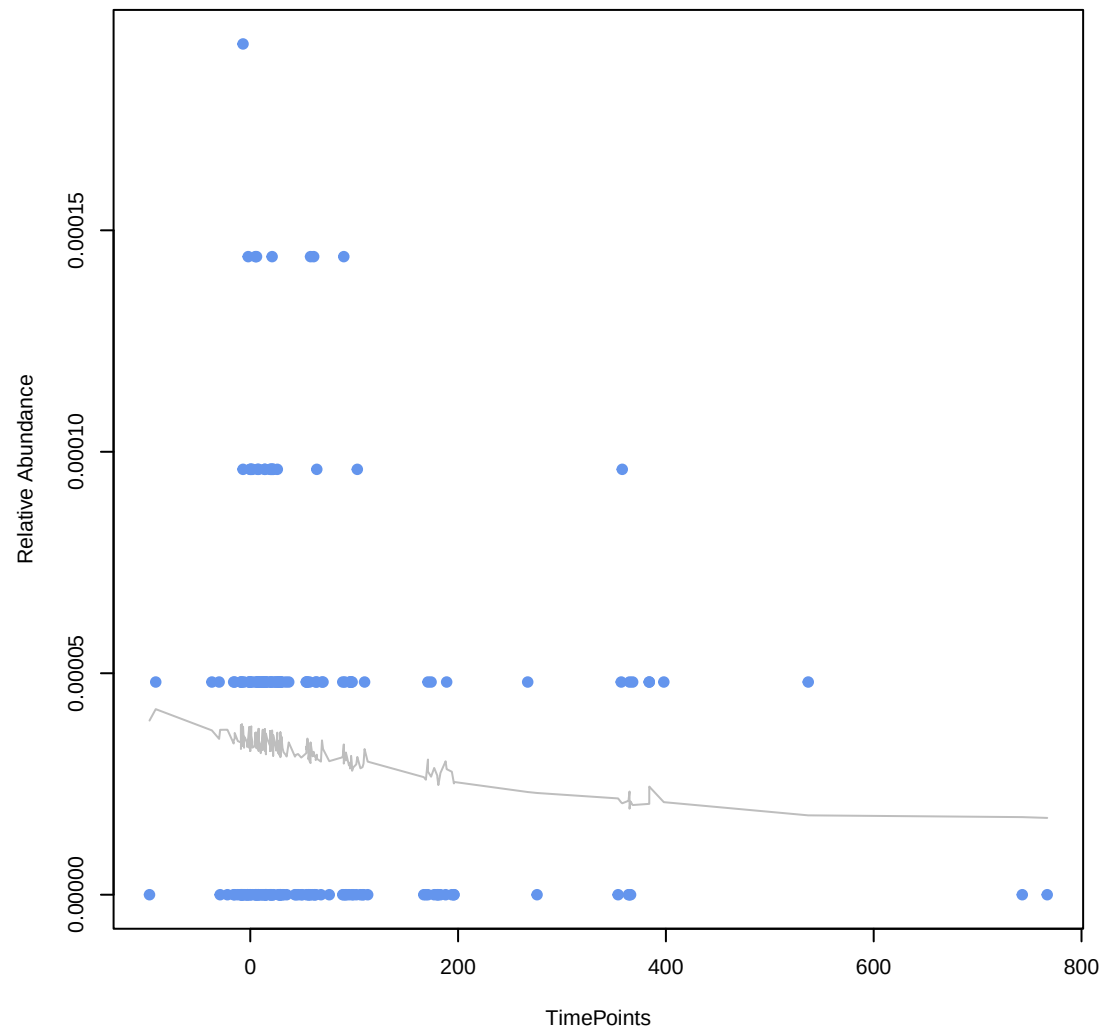

RGI
eptA
ANOVA Pval: 0.597



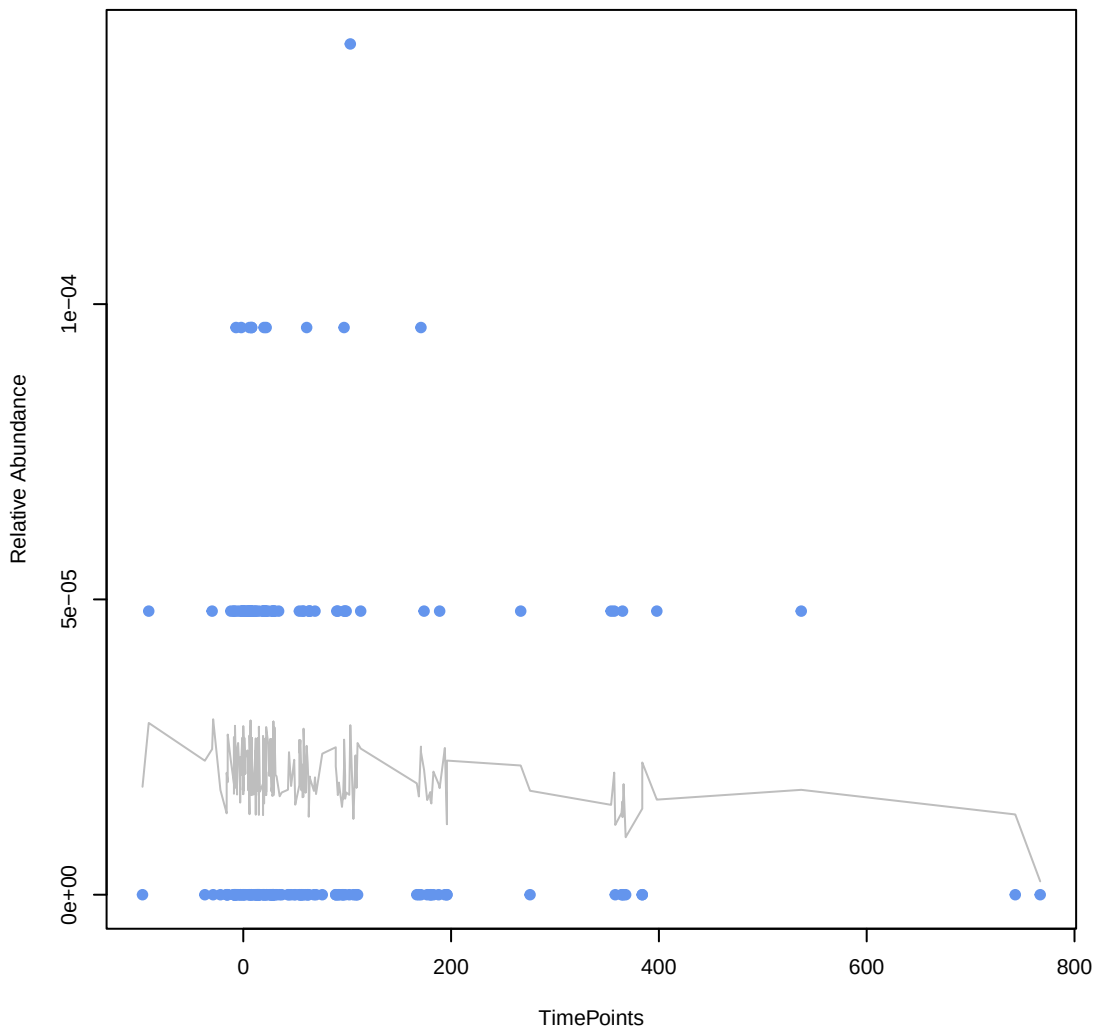

RGI
kdpE
ANOVA Pval: 0.848



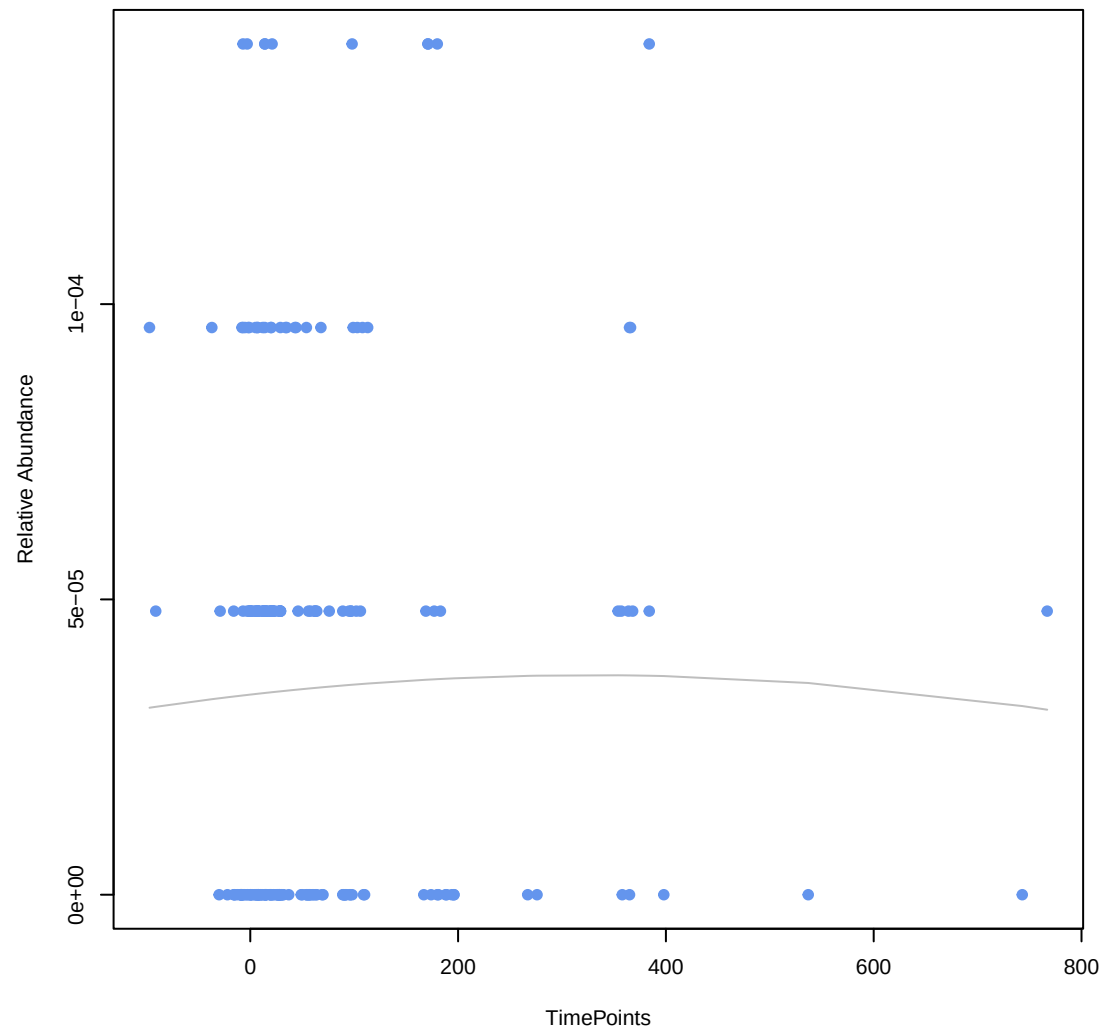

RGI
Escherichia coli mdfA
ANOVA Pval: 0.358

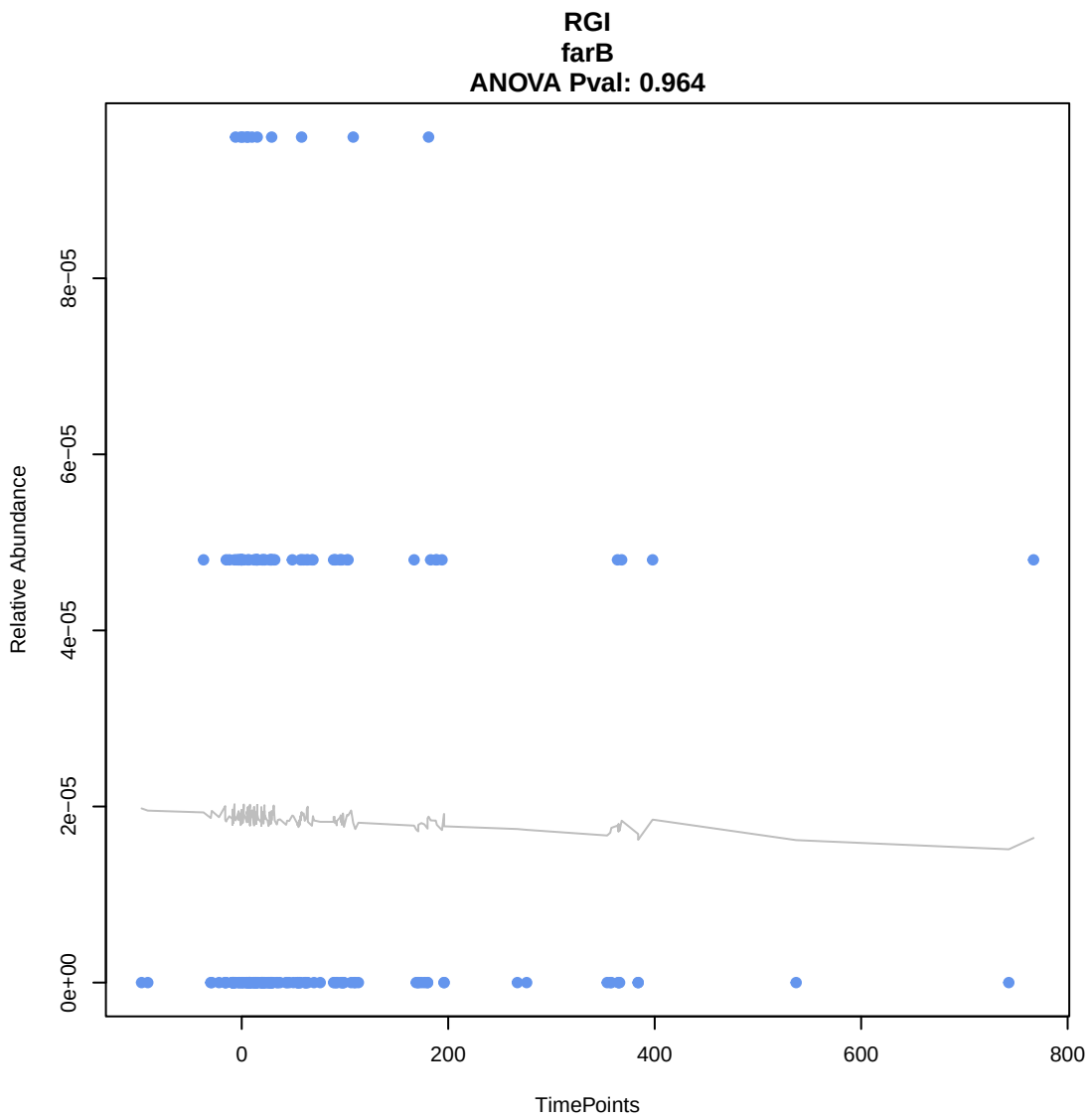


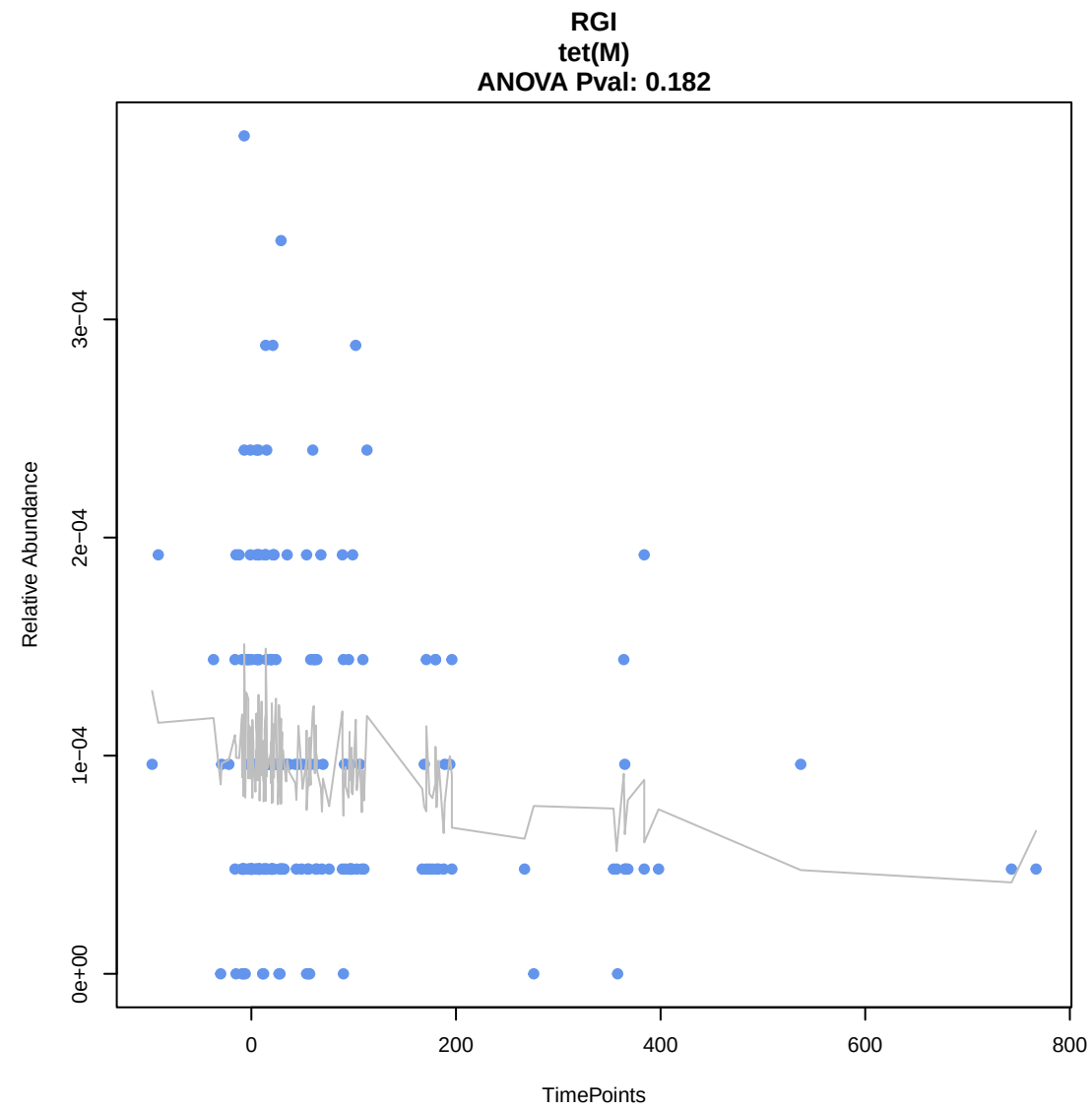

RGI
rsmA
ANOVA Pval: 0.769

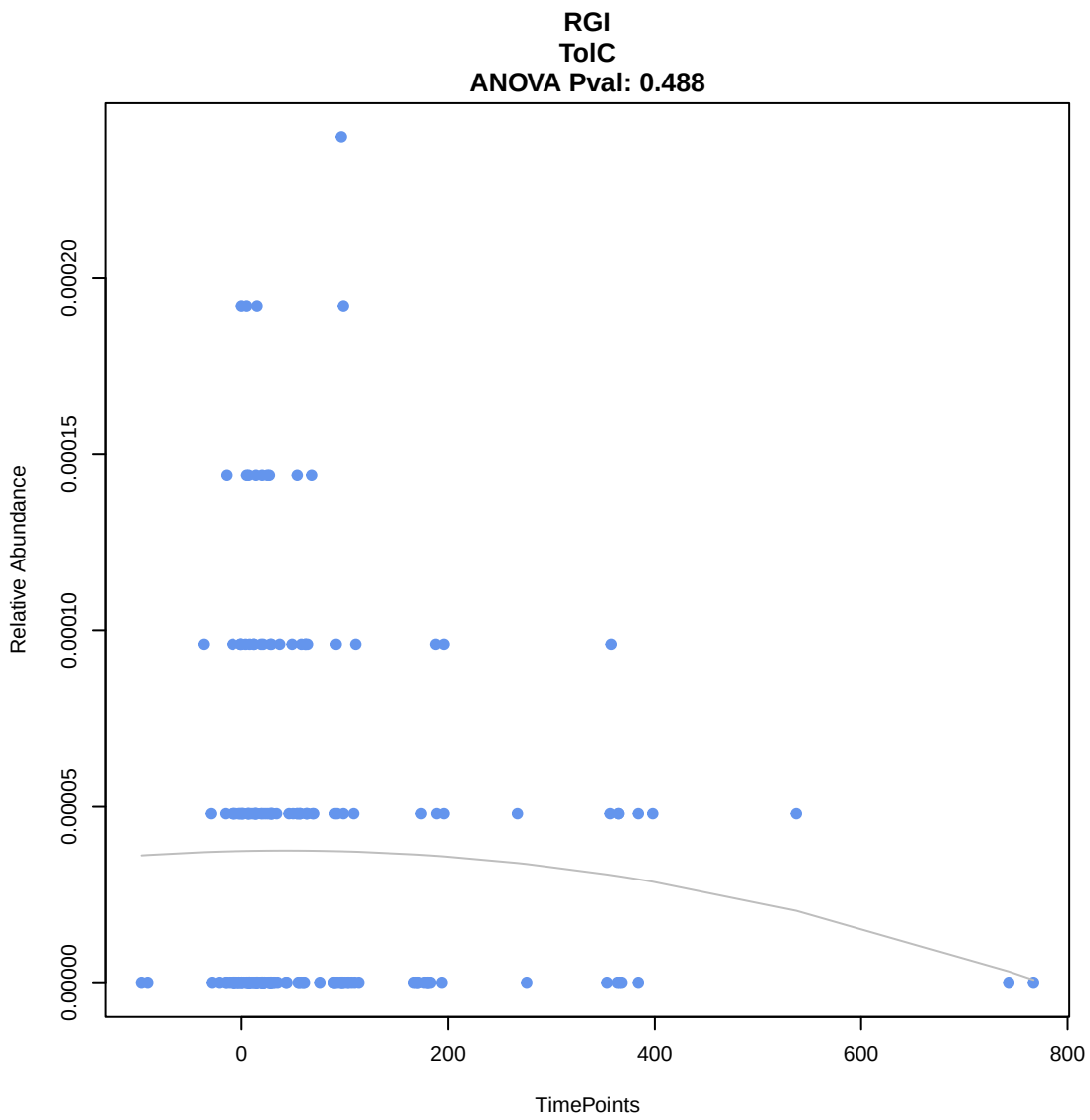


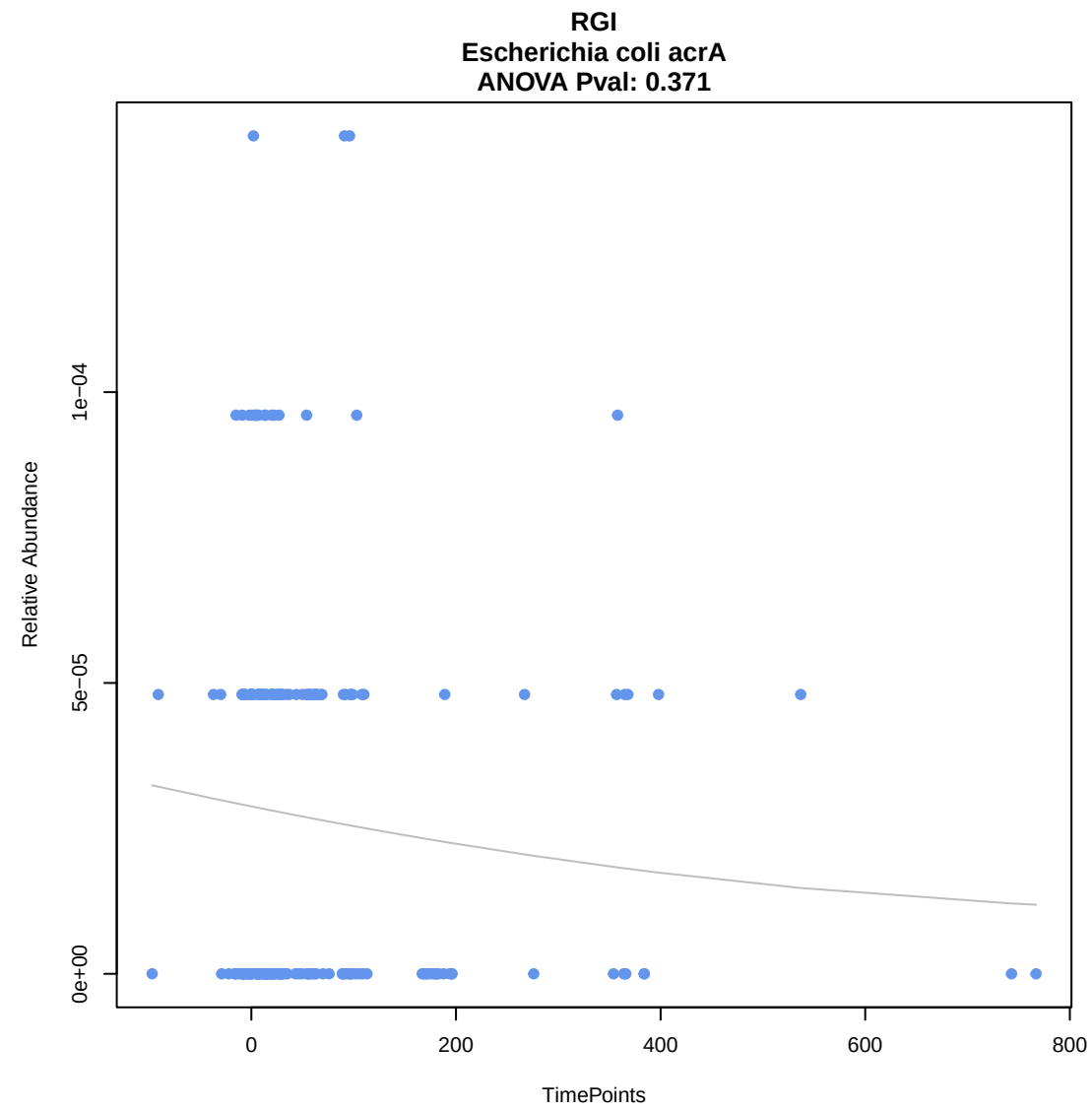

RGI
vanH gene in vanA cluster
ANOVA Pval: 0.932

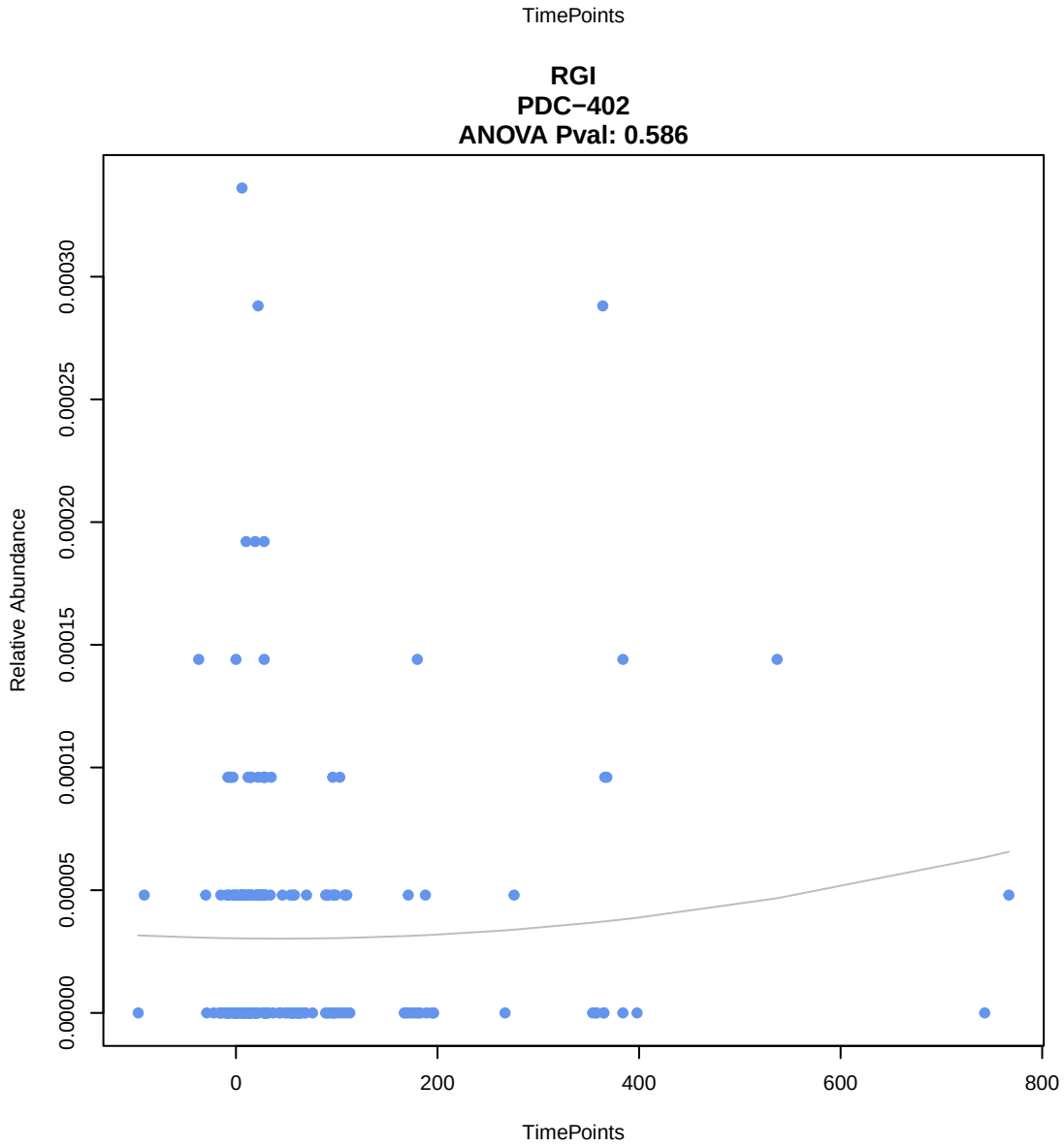


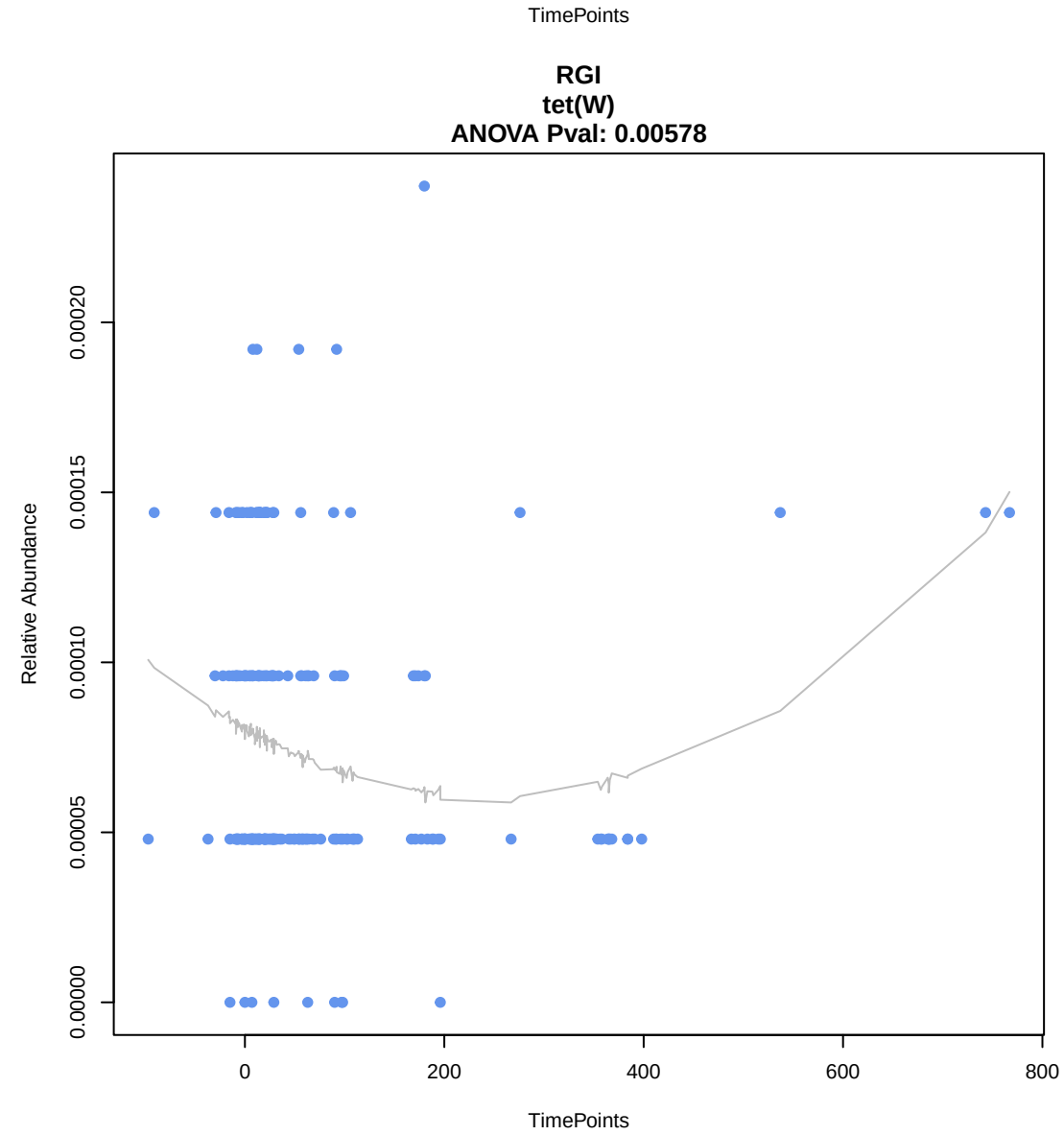

RGI
farB
ANOVA Pval: 0.964
Relative Abundance
0e+00
2e−05
4e−05
6e−05
8e−05
0
200
400
600
800
TimePoints


RGI
tet(M)
ANOVA Pval: 0.182
Relative Abundance
0e+00
1e−04
2e−04
3e−04
0
200
400
600
800
TimePoints

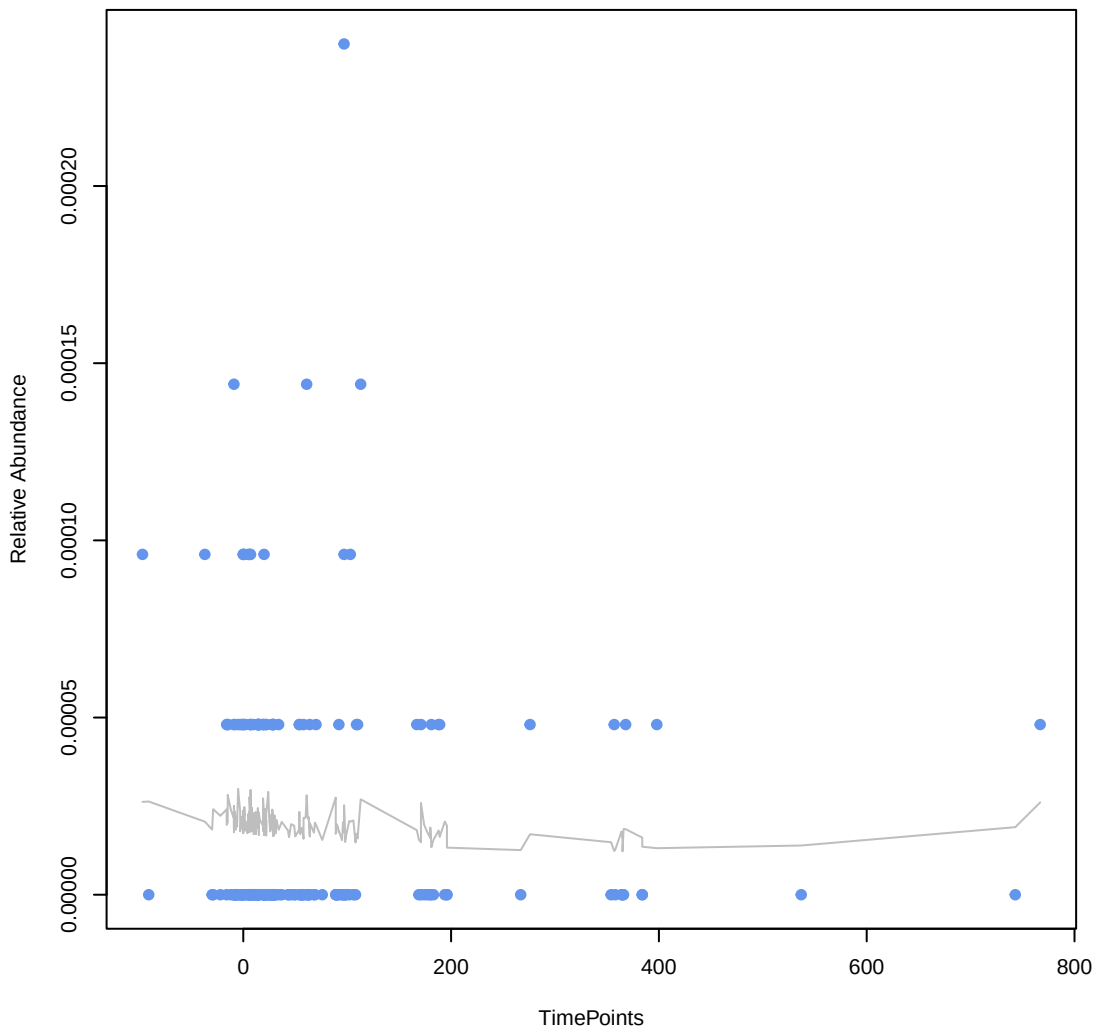

RGI
TolC
ANOVA Pval: 0.488
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0
200
400
600
800
TimePoints


RGI
Escherichia coli acrA
ANOVA Pval: 0.371
Relative Abundance
0e+00
5e−05
1e−04
0
200
400
600
800
TimePoints

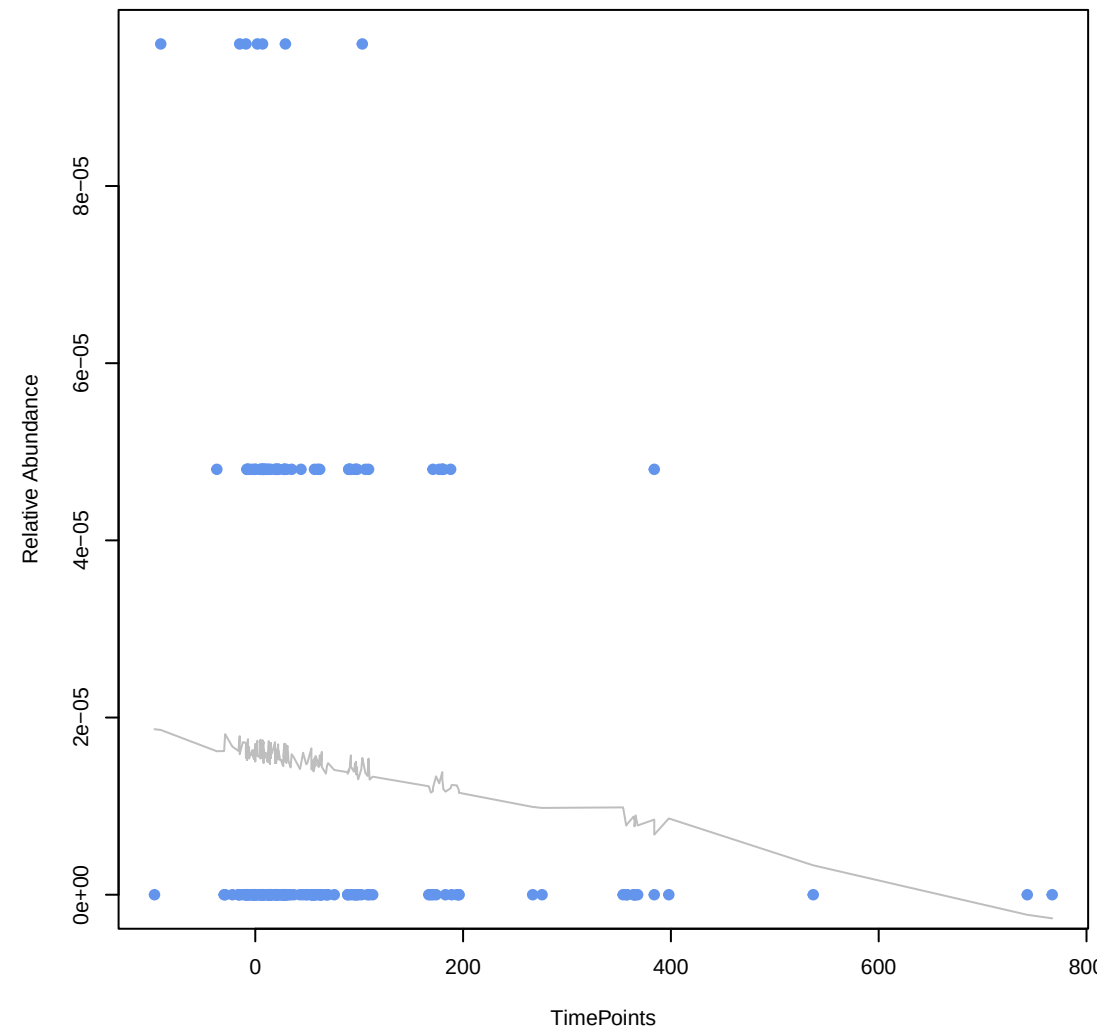

RGI
PDC−402
ANOVA Pval: 0.586
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0.00025
0.00030
0
200
400
600
800
TimePoints


RGI
tet(W)
ANOVA Pval: 0.00578
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0
200
400
600
800
TimePoints

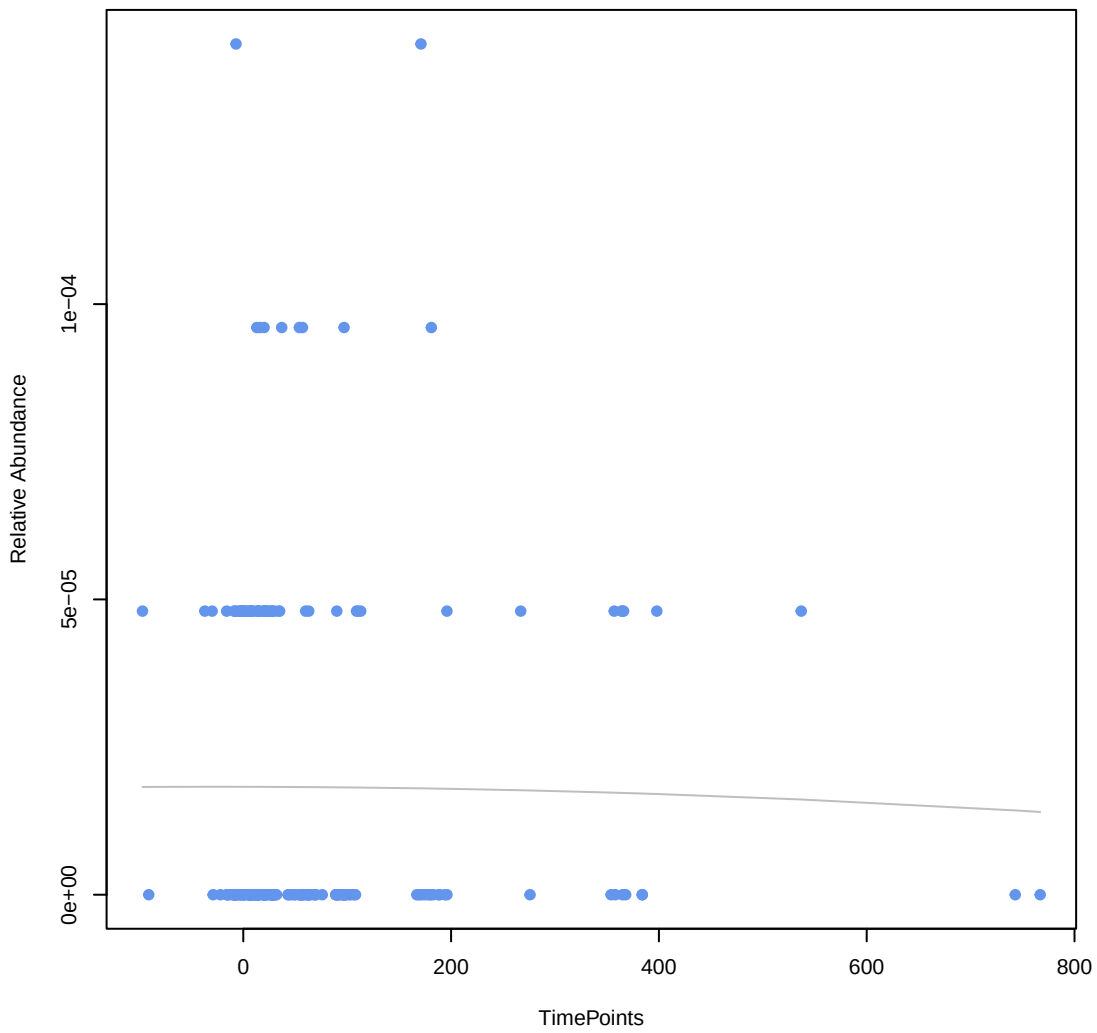
RGI
vanX gene in vanD cluster
ANOVA Pval: 0.796



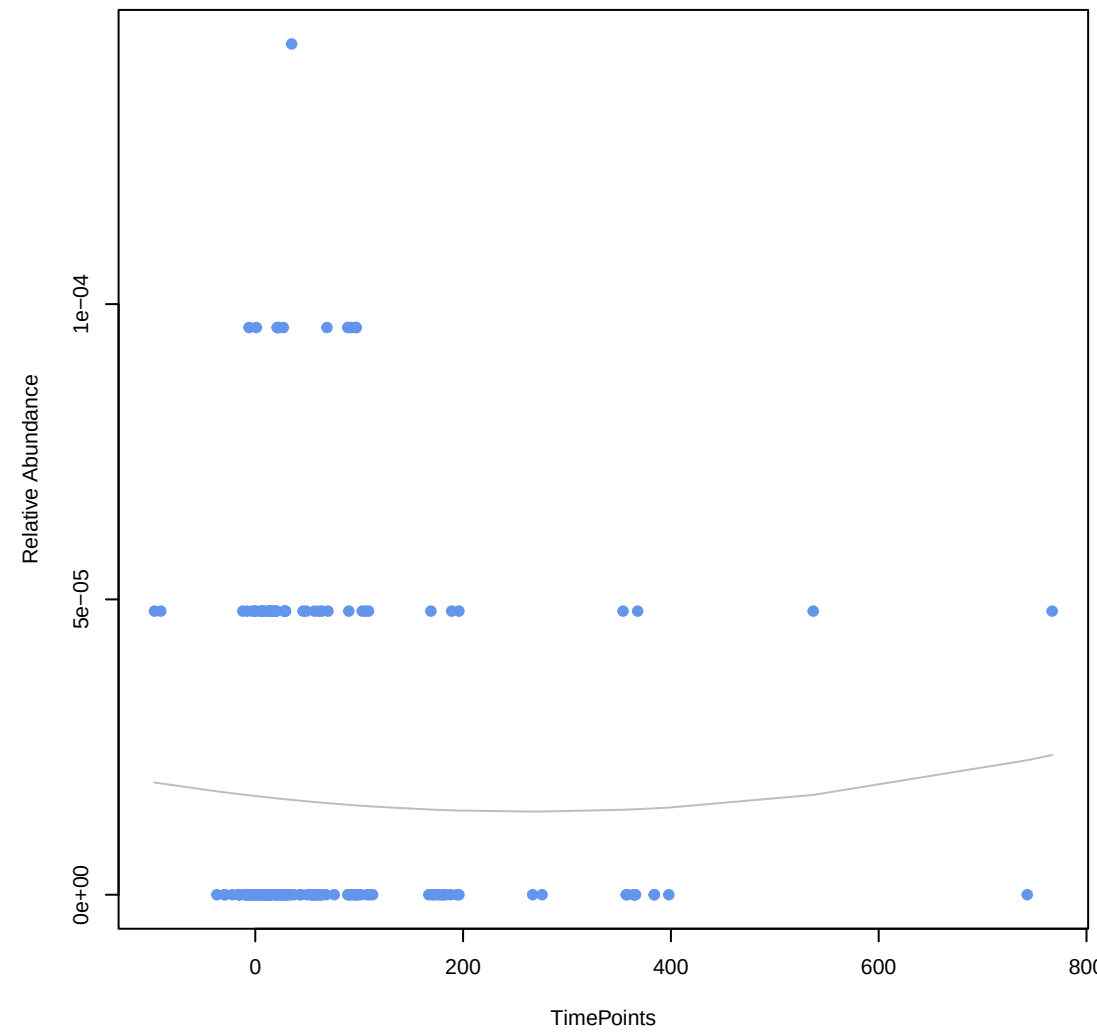

RGI
Streptomyces rimosus otr(A)
ANOVA Pval: 0.306



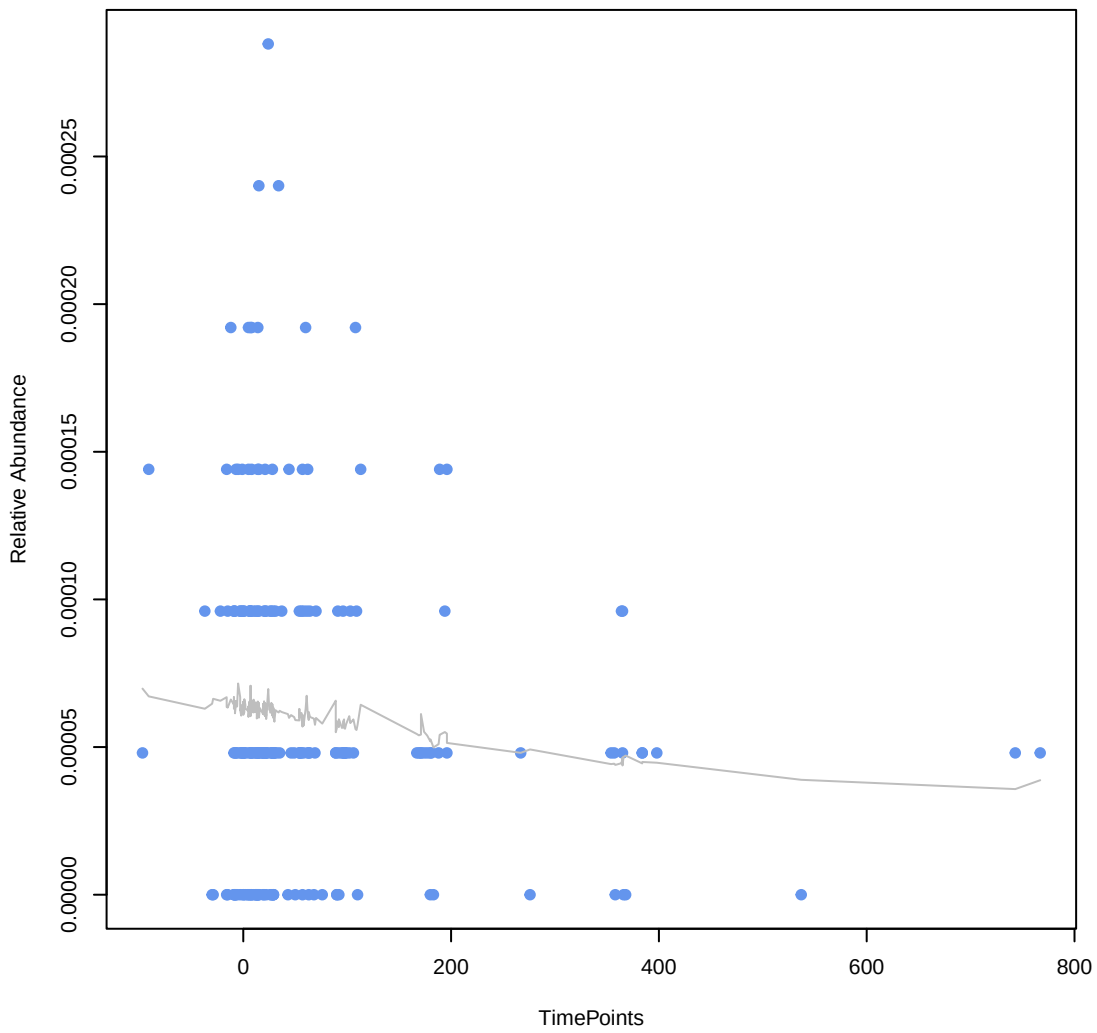

RGI
APH(3")−Ib
ANOVA Pval: 0.972



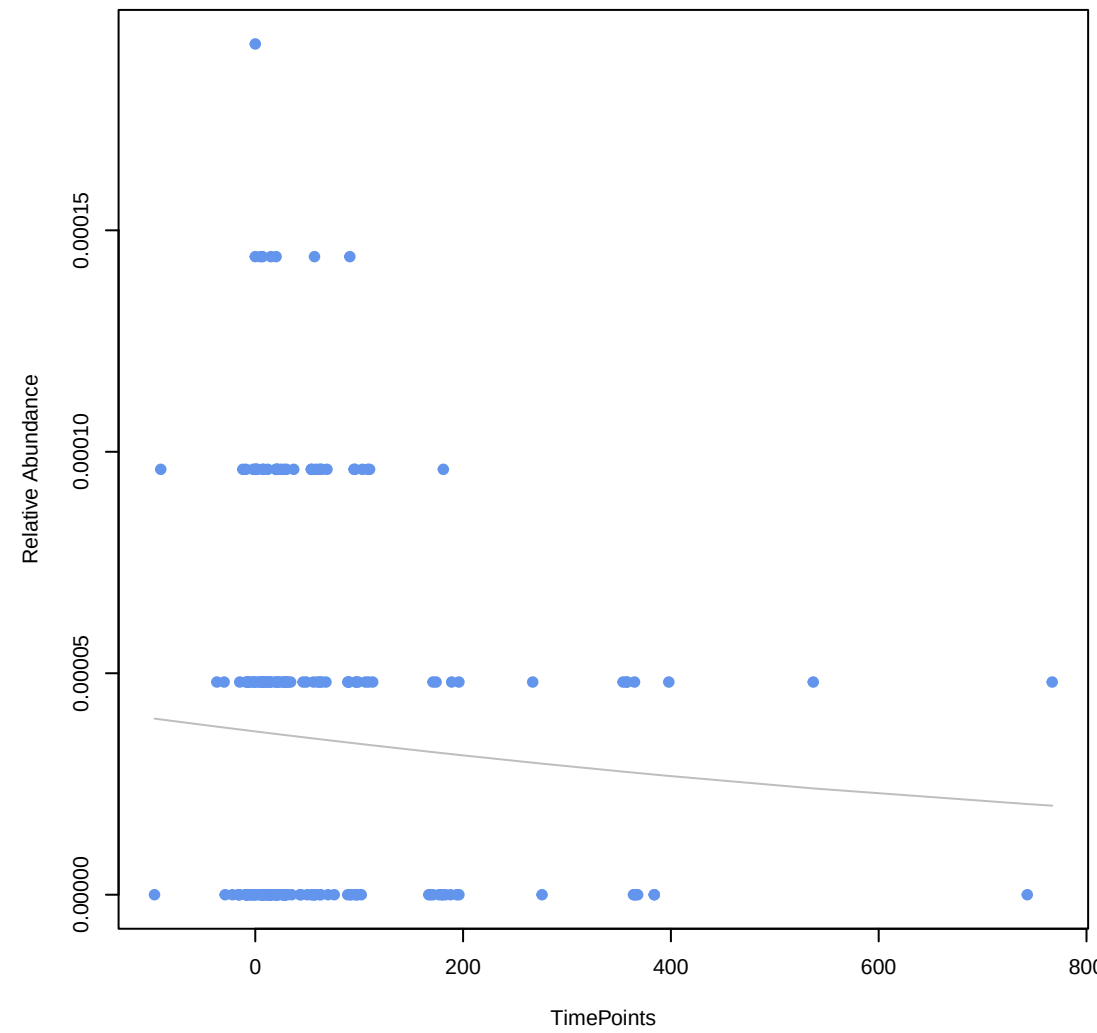

RGI
oleB
ANOVA Pval: 0.853

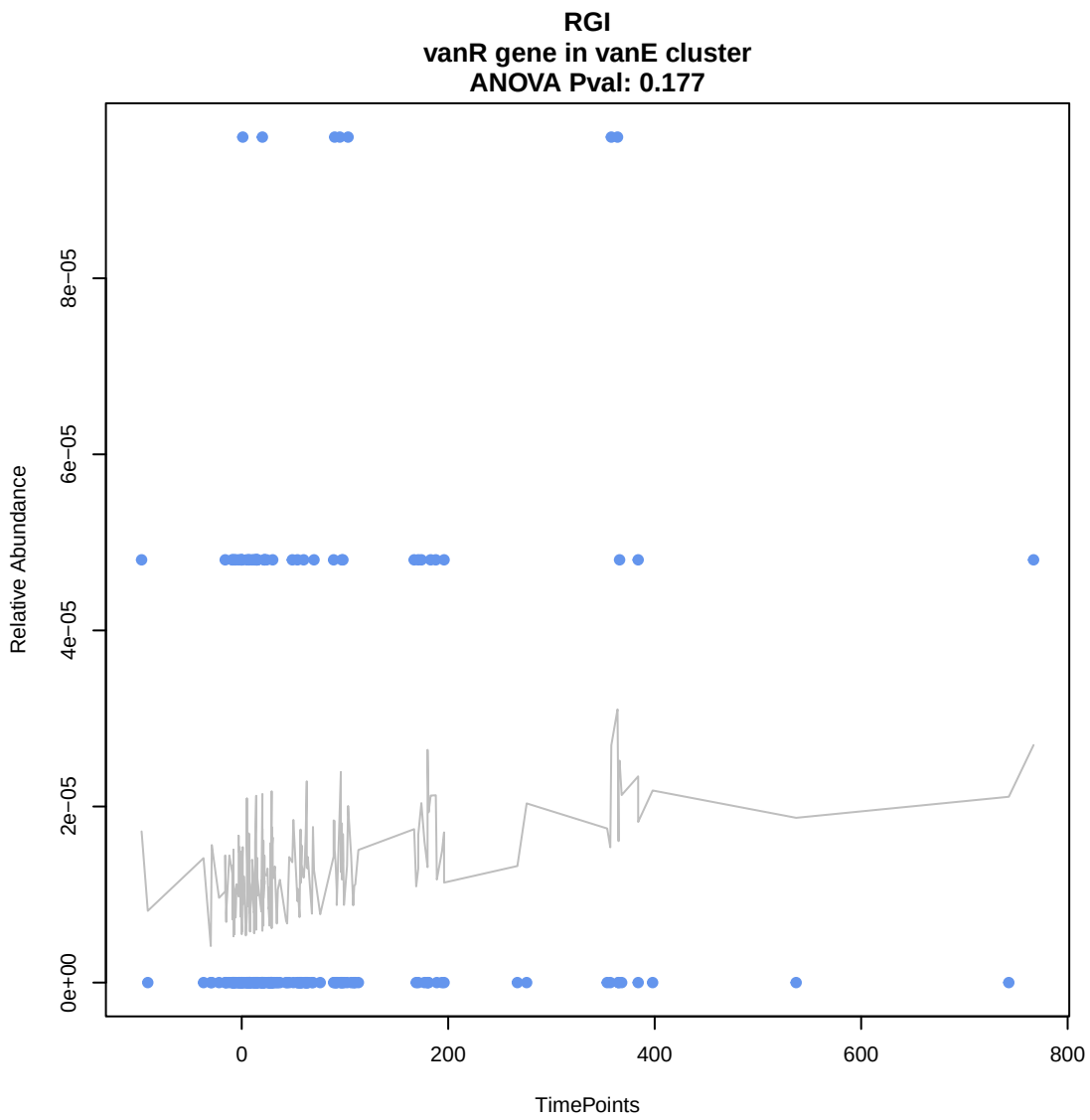


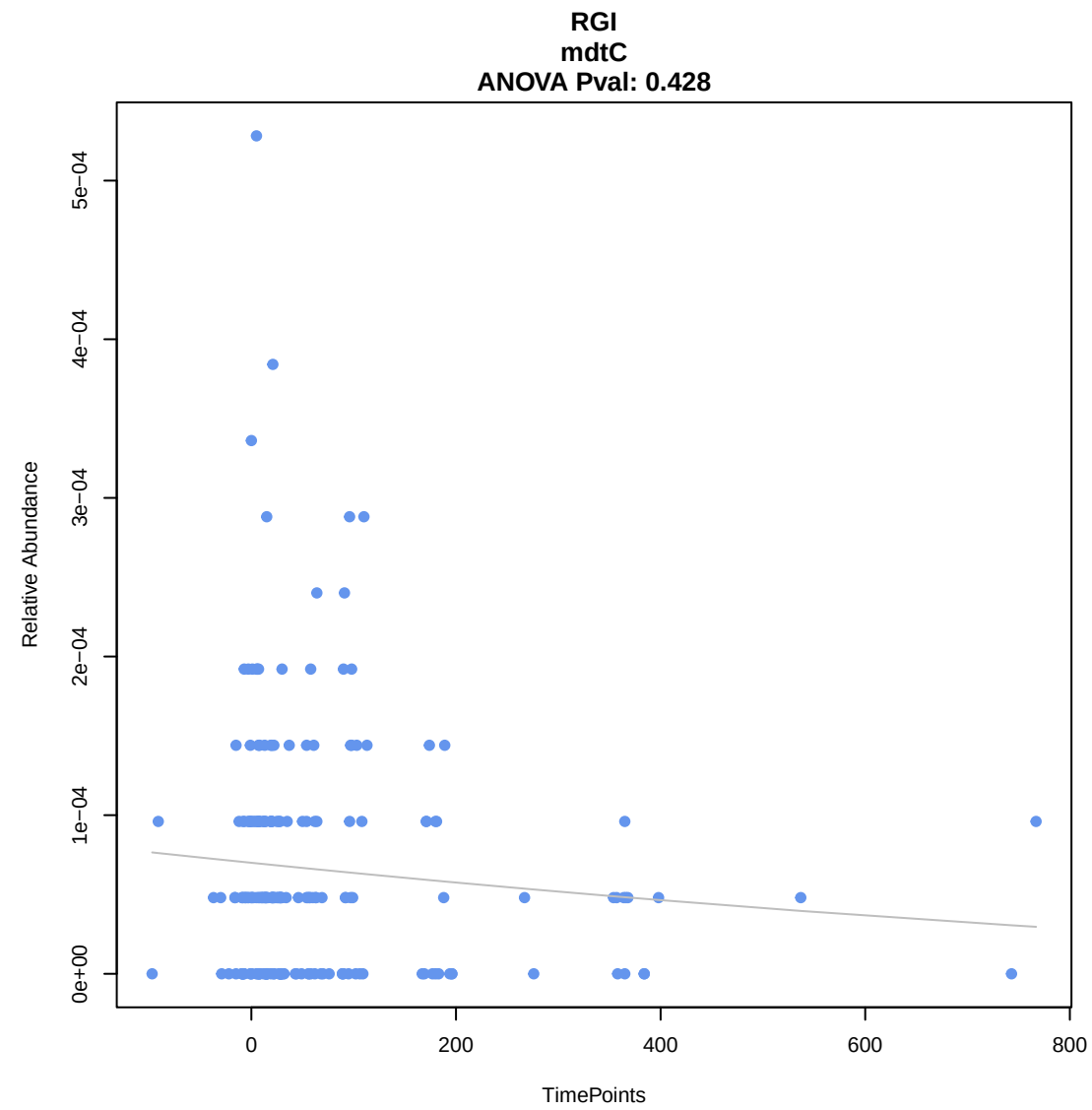

RGI
tetB(46)
ANOVA Pval: 0.328

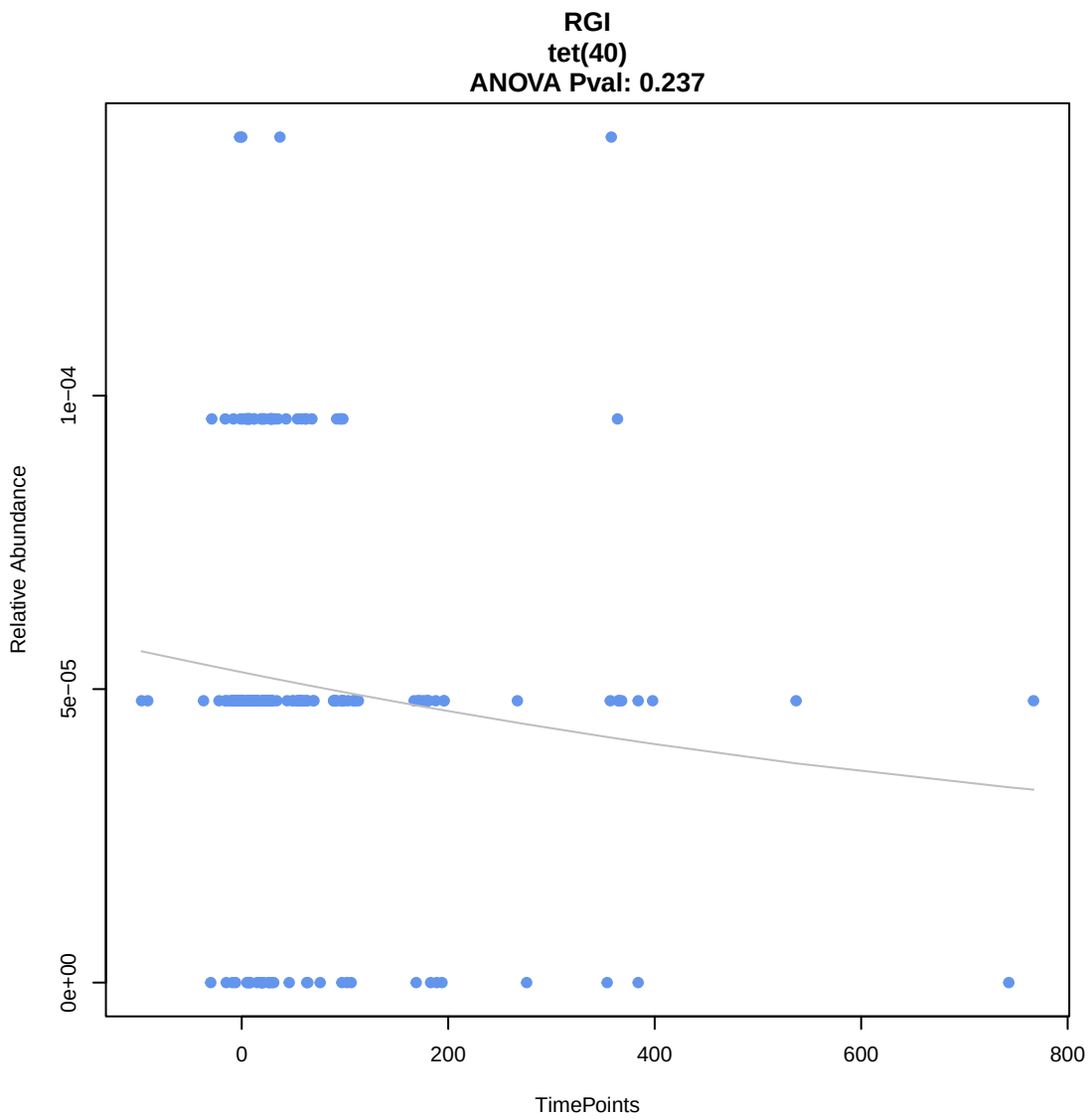


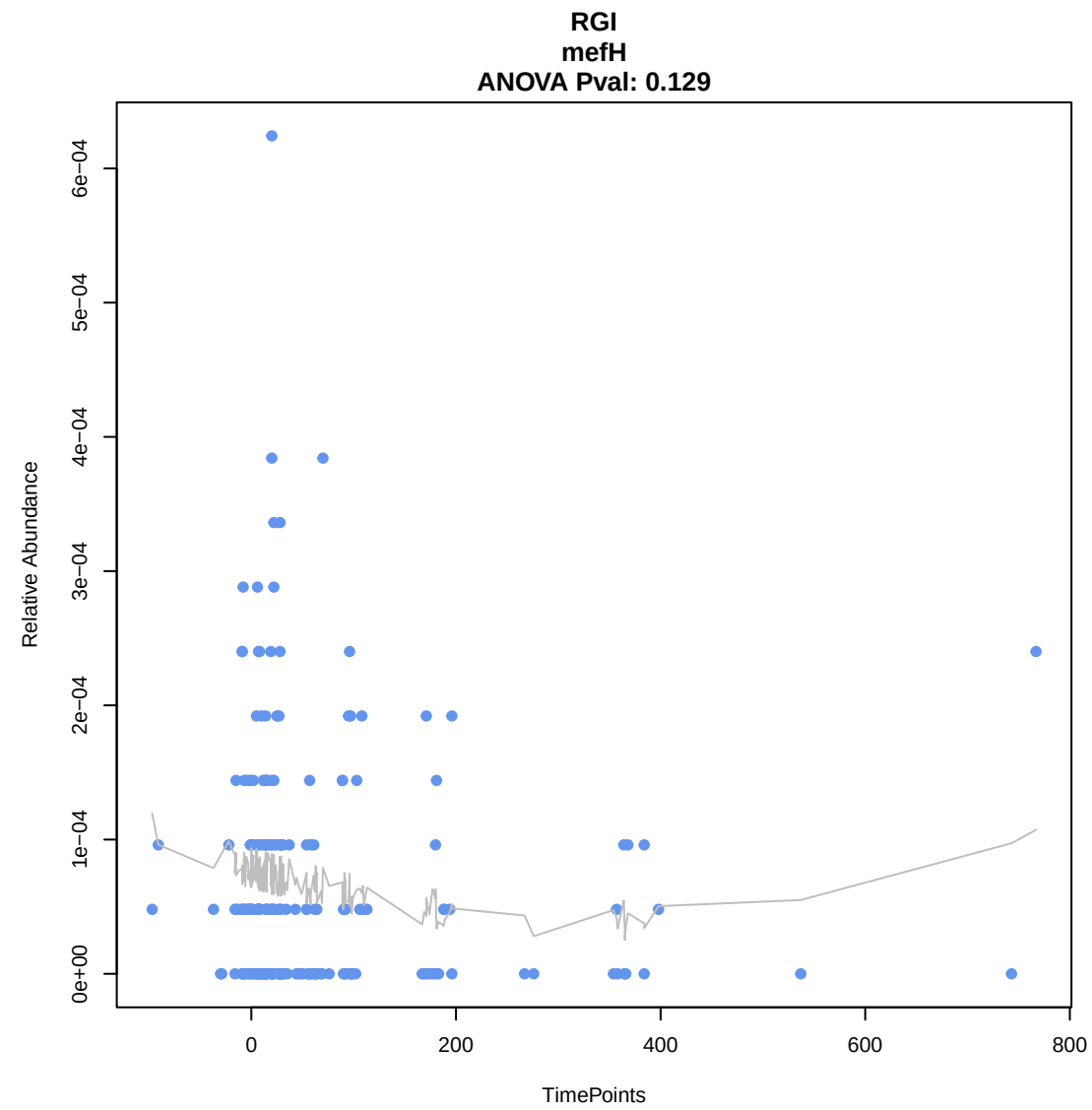

RGI
mdtG
ANOVA Pval: 0.6

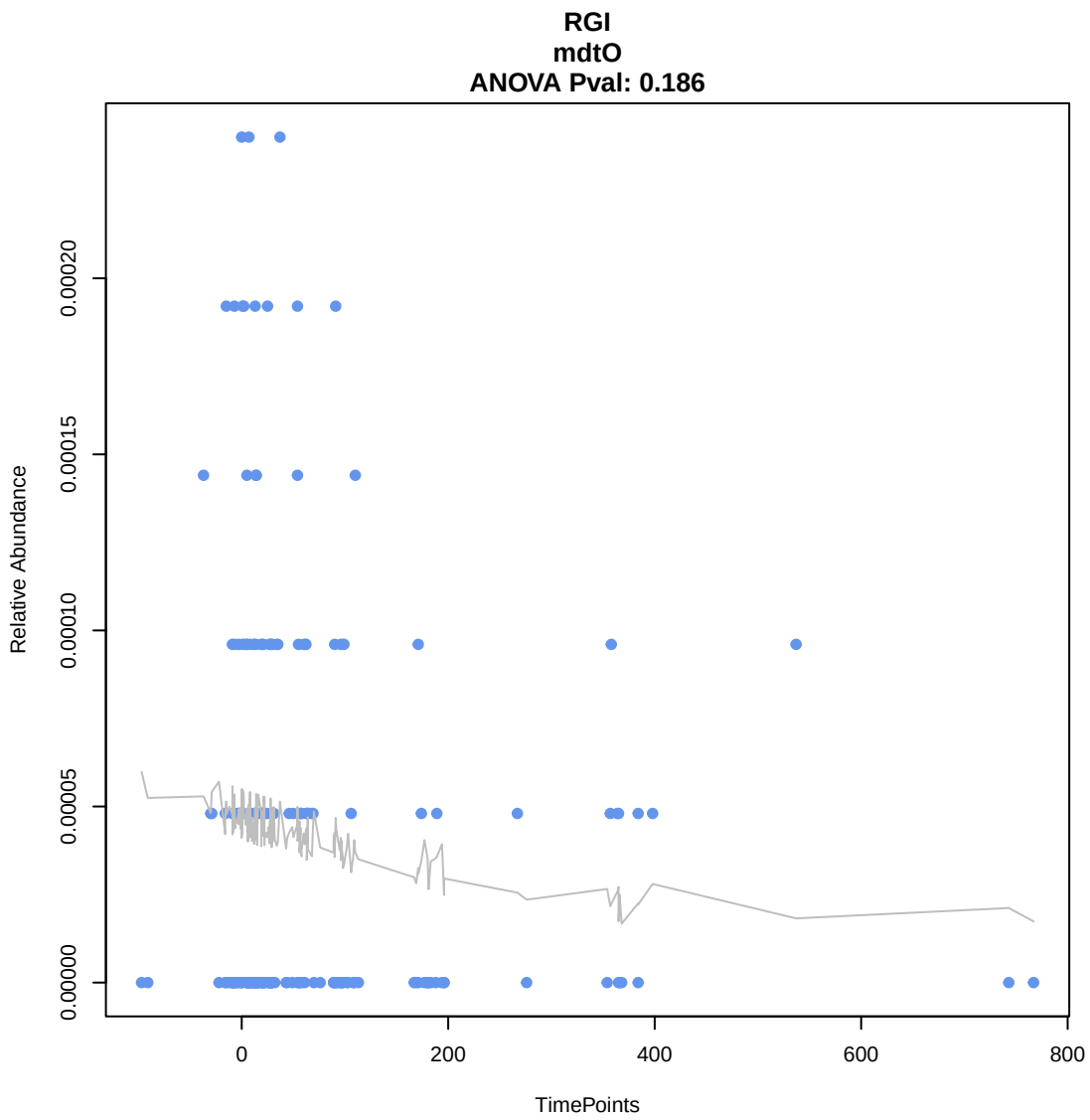


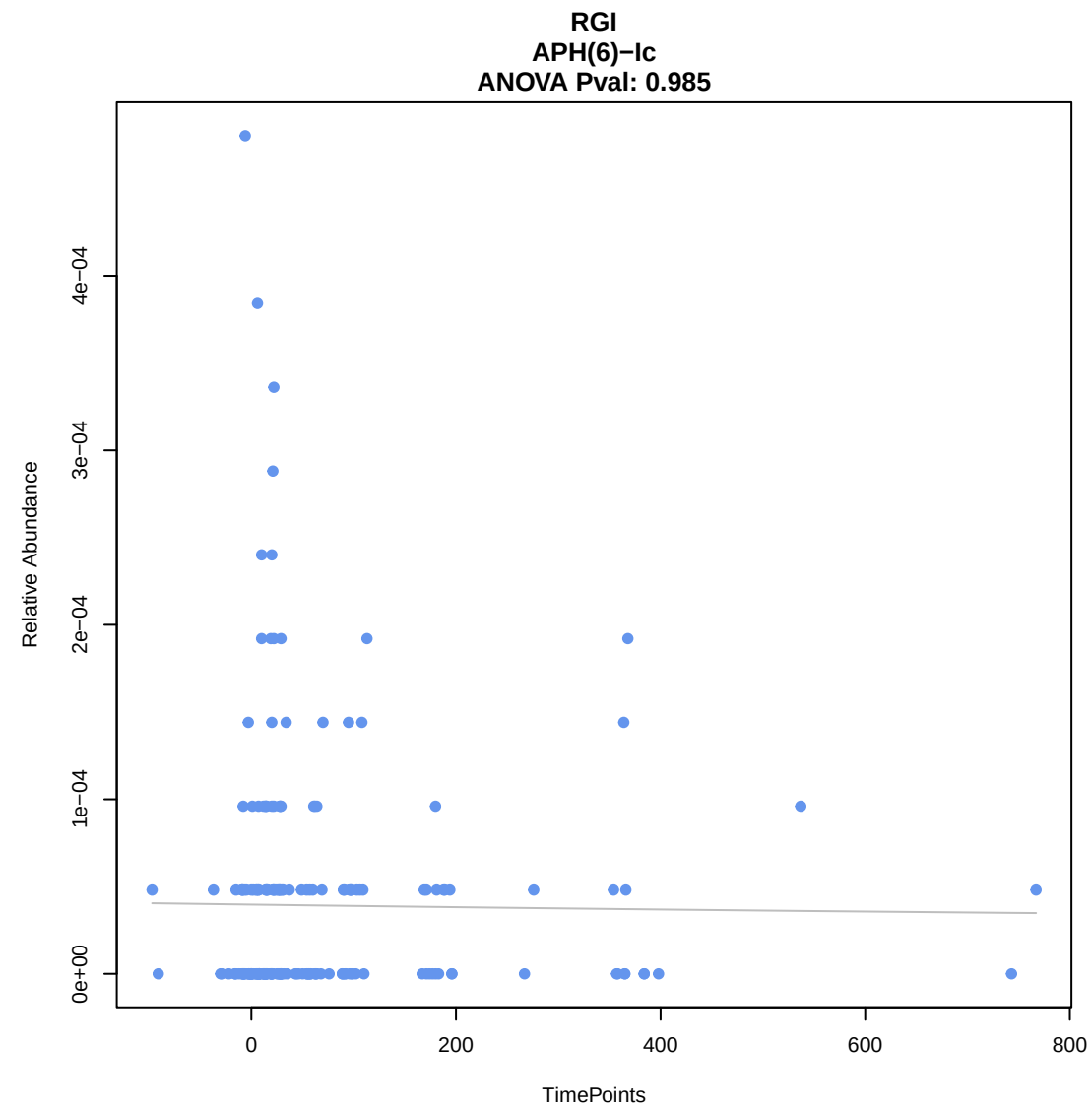

RGI
vanR gene in vanE cluster
ANOVA Pval: 0.177
Relative Abundance
0e+00
2e−05
4e−05
6e−05
8e−05
0
200
400
600
800
TimePoints

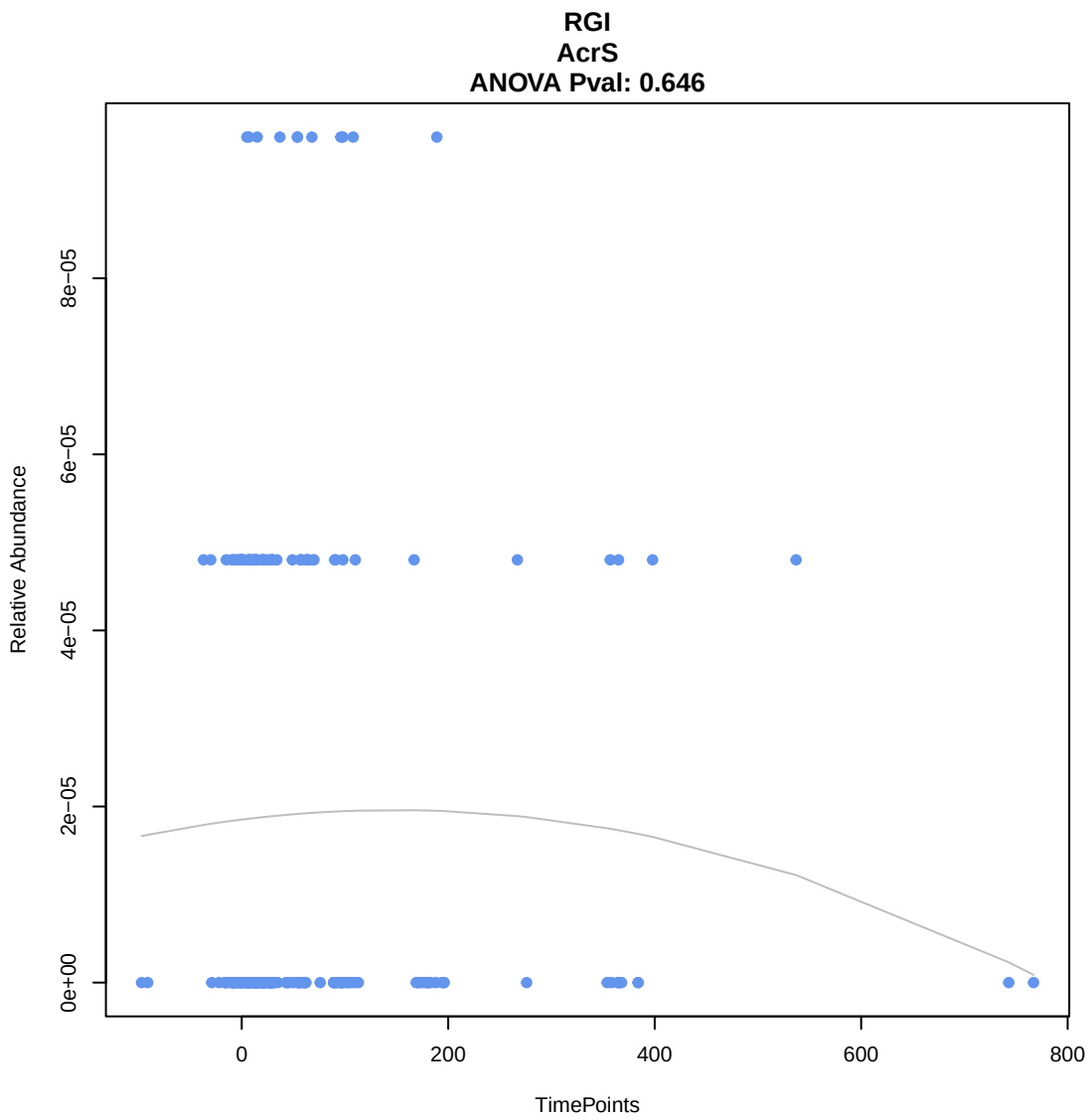

RGI
mdtC
ANOVA Pval: 0.428
Relative Abundance
0e+00
1e−04
2e−04
3e−04
4e−04
5e−04
0
200
400
600
800
TimePoints

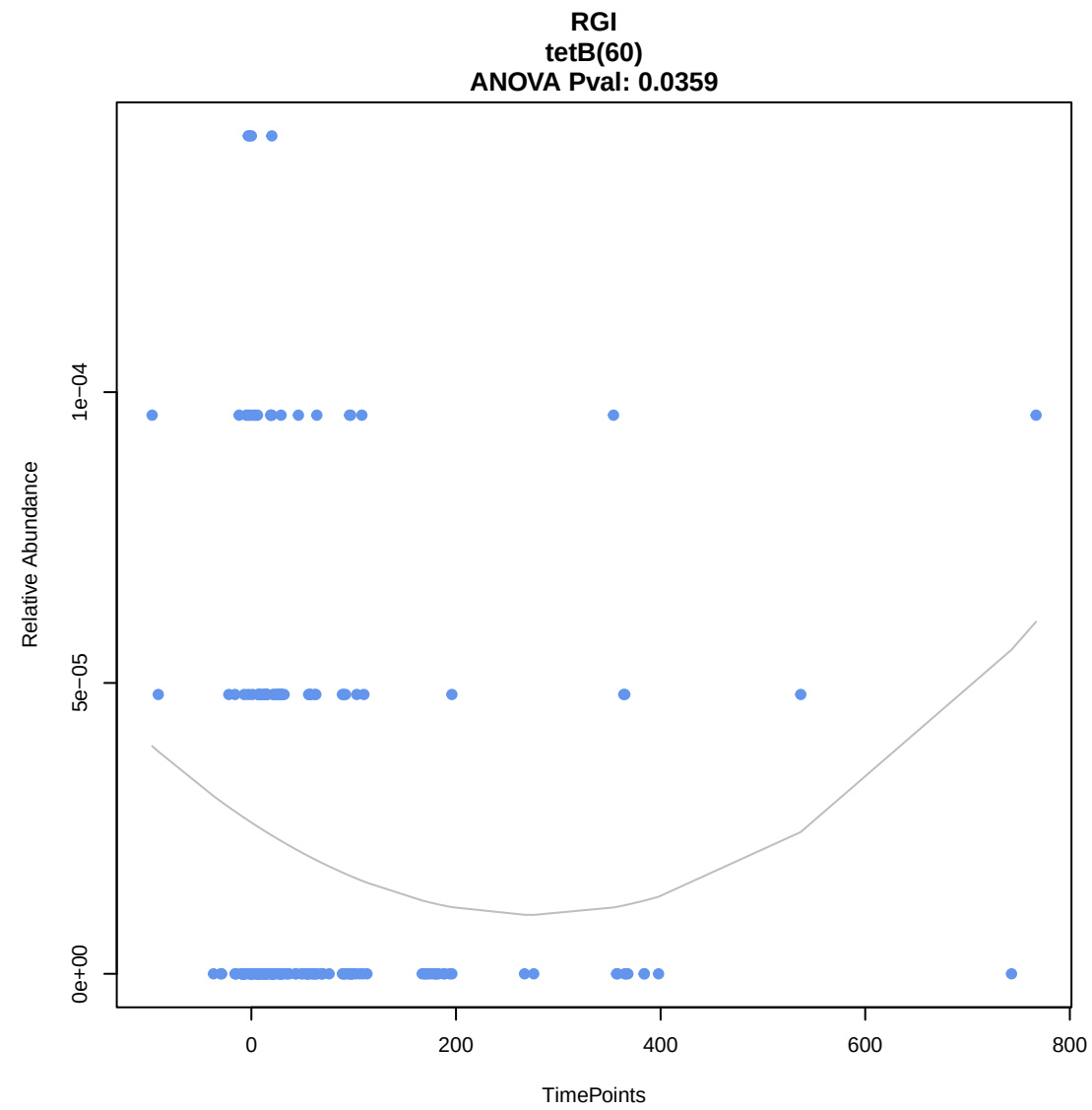

RGI
tet(40)
ANOVA Pval: 0.237
Relative Abundance
0e+00
5e−05
1e−04
0
200
400
600
800
TimePoints

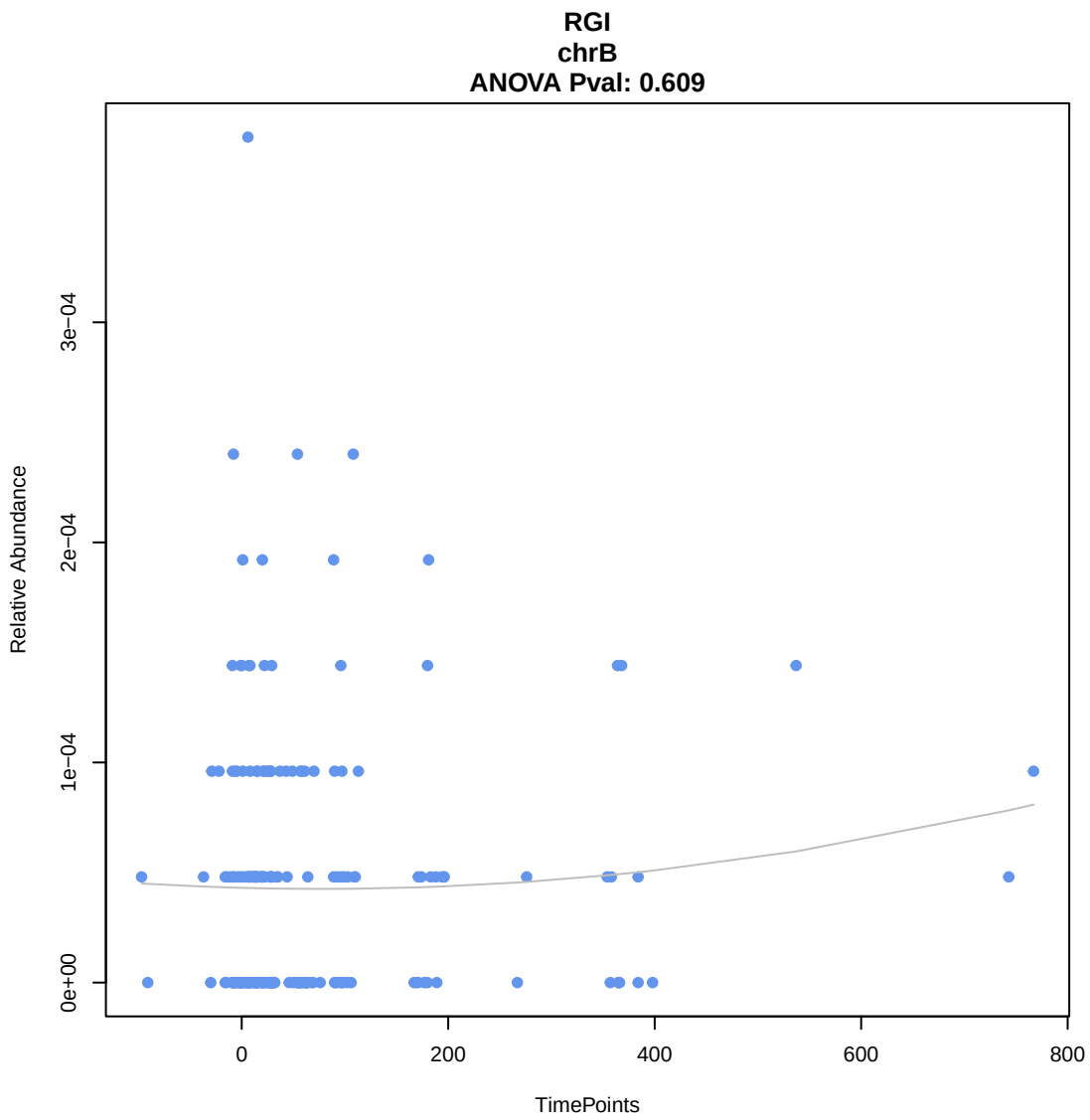

RGI
mefH
ANOVA Pval: 0.129
Relative Abundance
0e+00
1e−04
2e−04
3e−04
4e−04
5e−04
6e−04
0
200
400
600
800
TimePoints

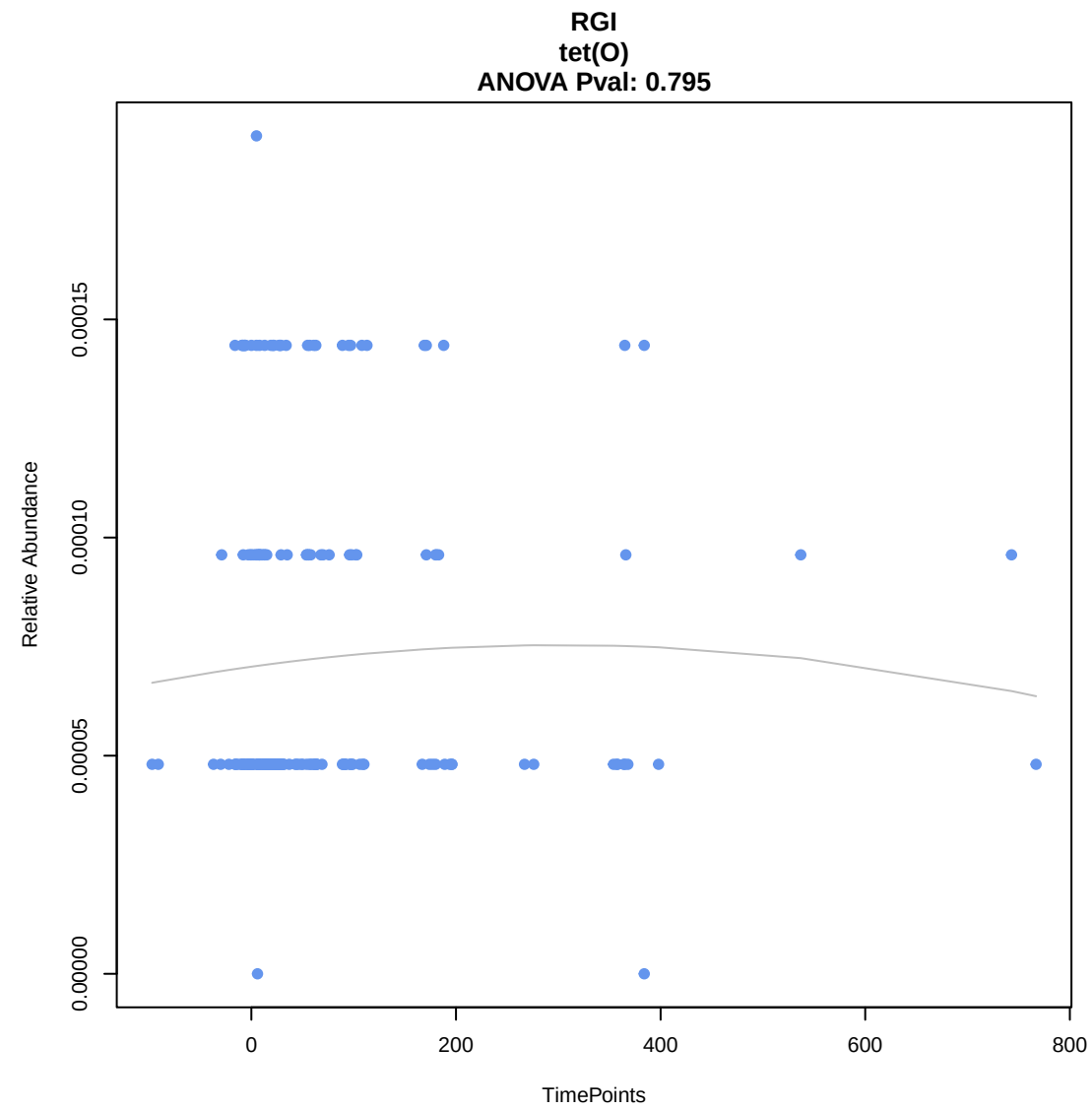

RGI
mdtO
ANOVA Pval: 0.186
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0
200
400
600
800
TimePoints

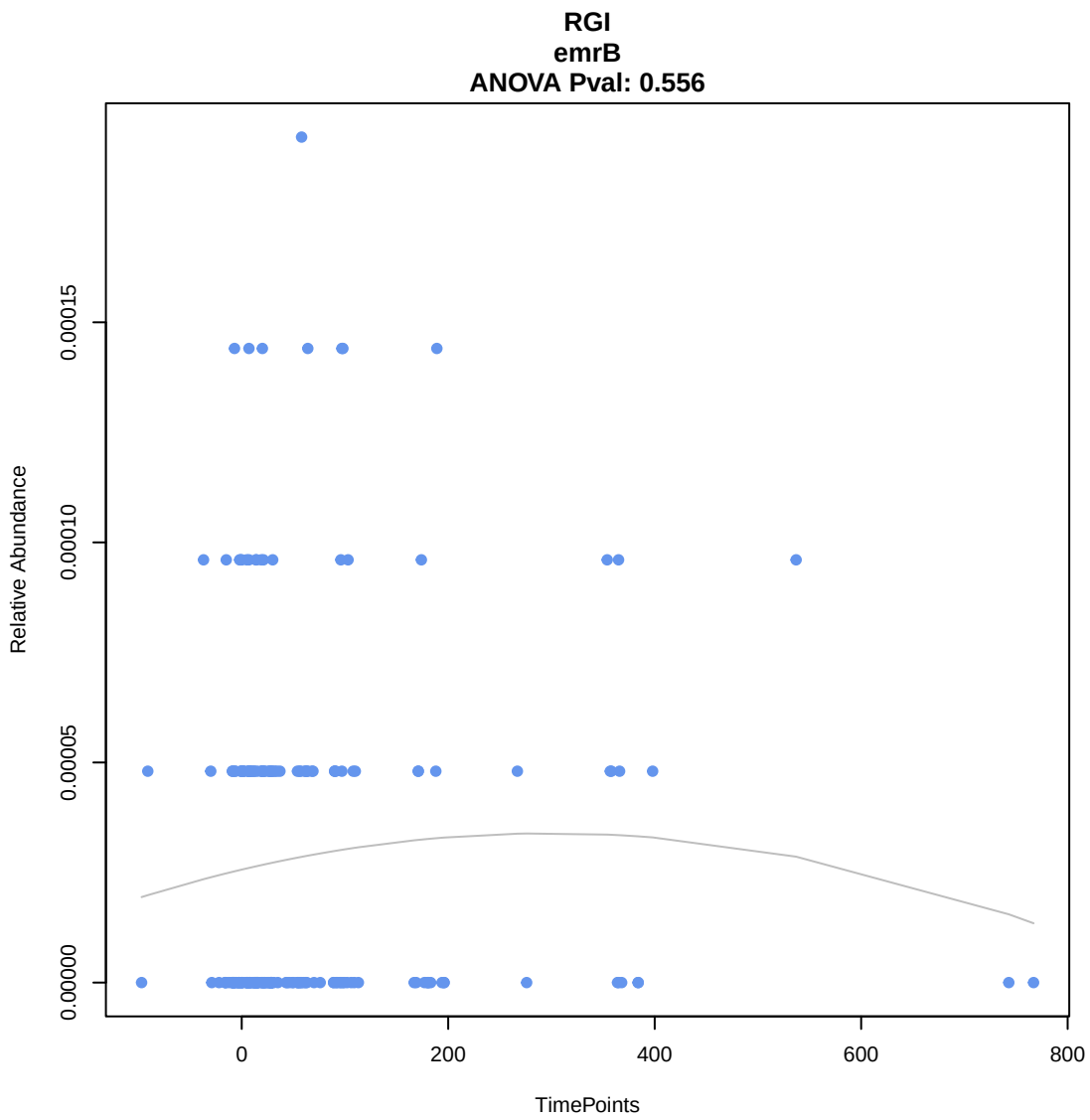

RGI
APH(6)−Ic
ANOVA Pval: 0.985
Relative Abundance
0e+00
1e−04
2e−04
3e−04
4e−04
0
200
400
600
800
TimePoints

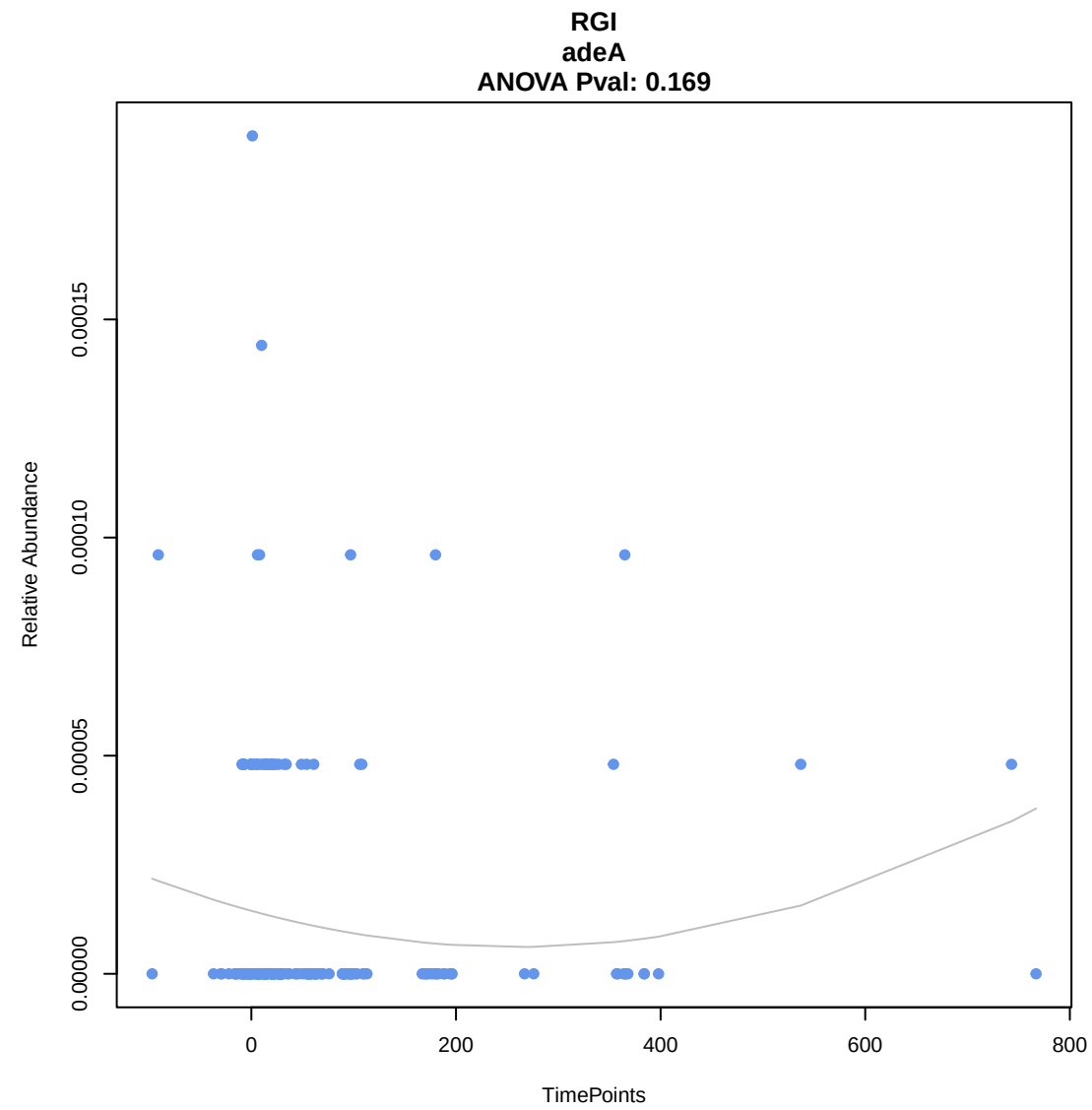

RGI
AcrS
ANOVA Pval: 0.646
Relative Abundance
0e+00
2e−05
4e−05
6e−05
8e−05
0
200
400
600
800
TimePoints

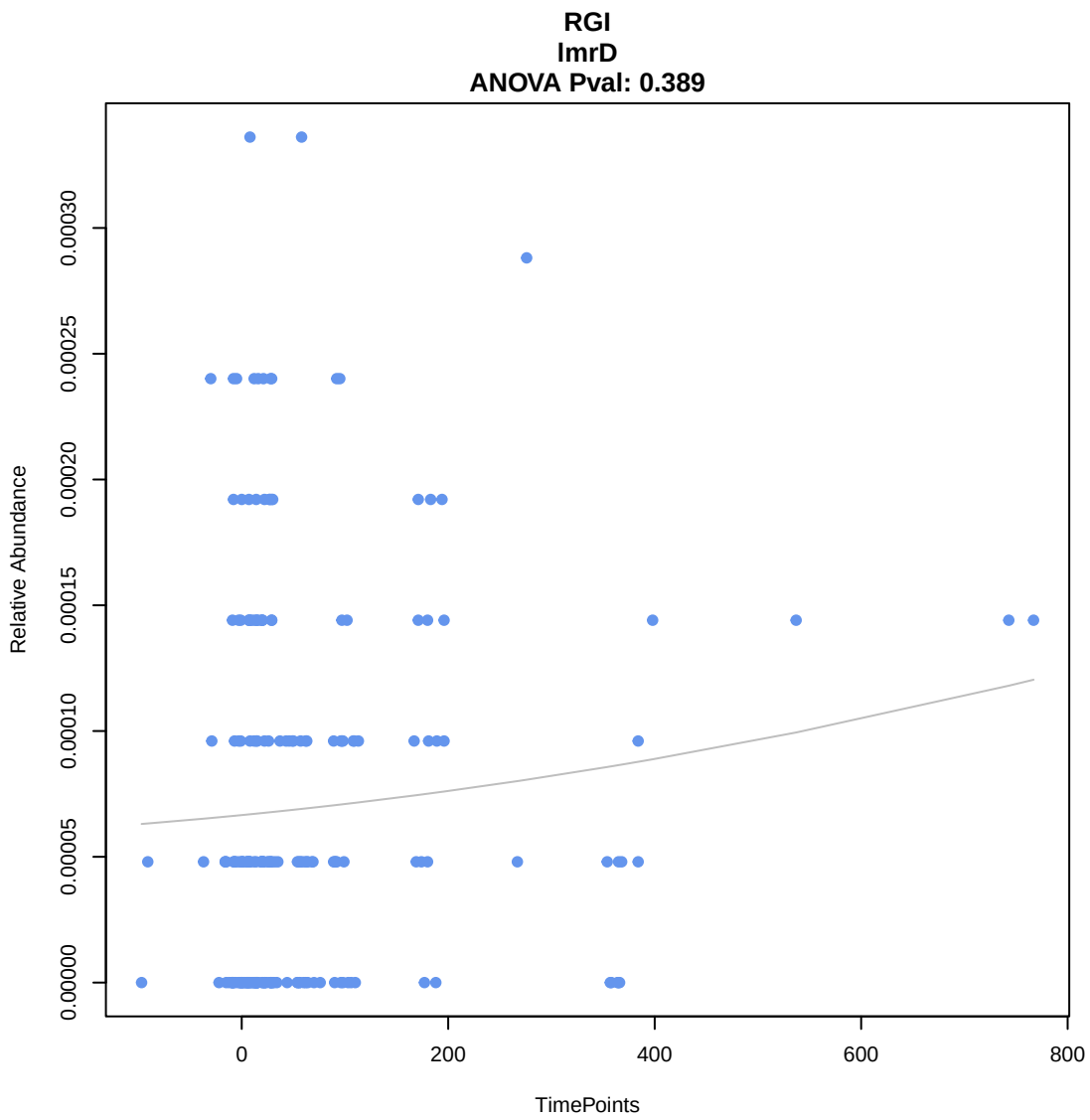

RGI
tetB(60)
ANOVA Pval: 0.0359
Relative Abundance
0e+00
5e−05
1e−04
0
200
400
600
800
TimePoints

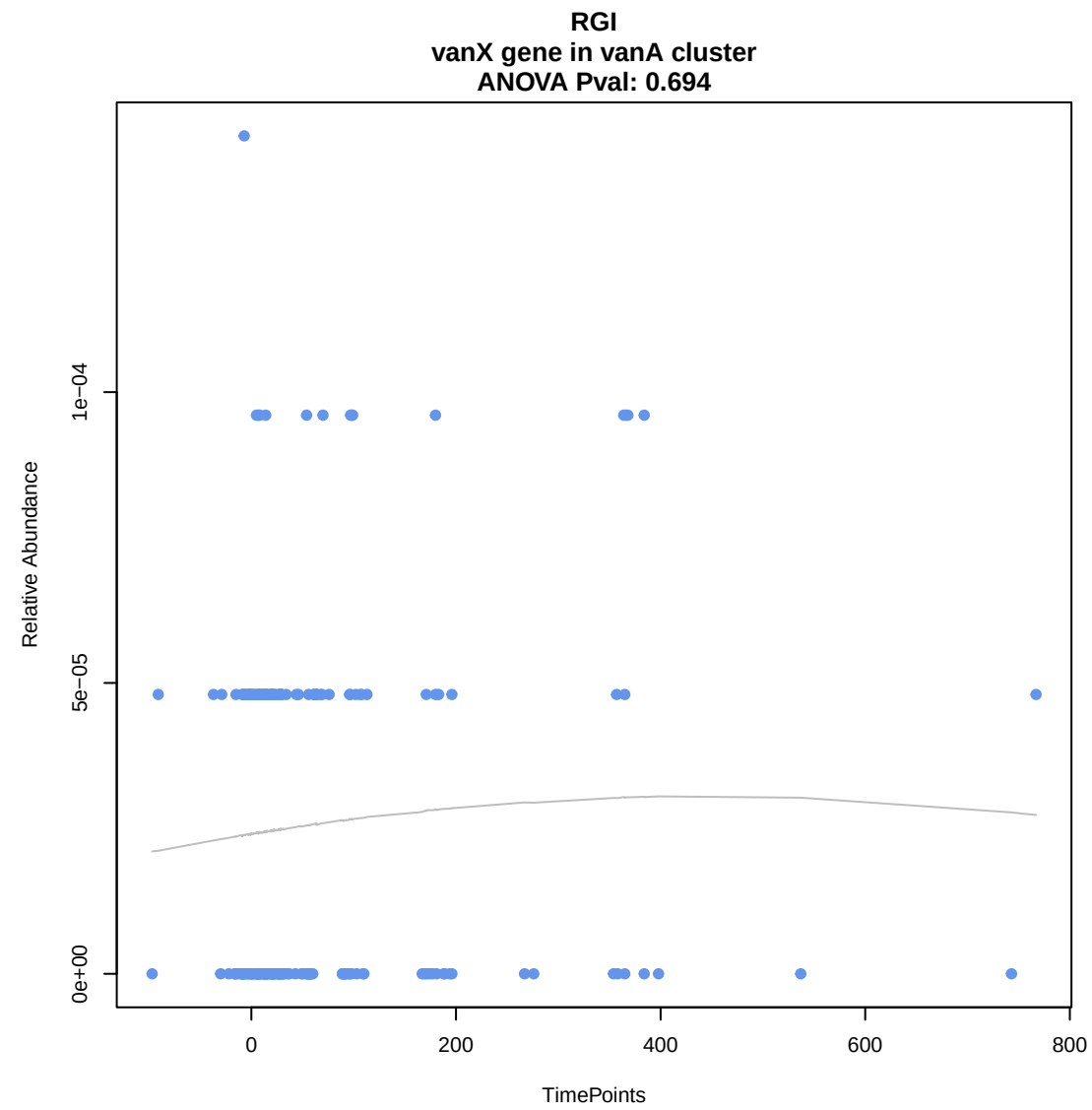

RGI
chrB
ANOVA Pval: 0.609
Relative Abundance
0e+00
1e−04
2e−04
3e−04
0
200
400
600
800
TimePoints

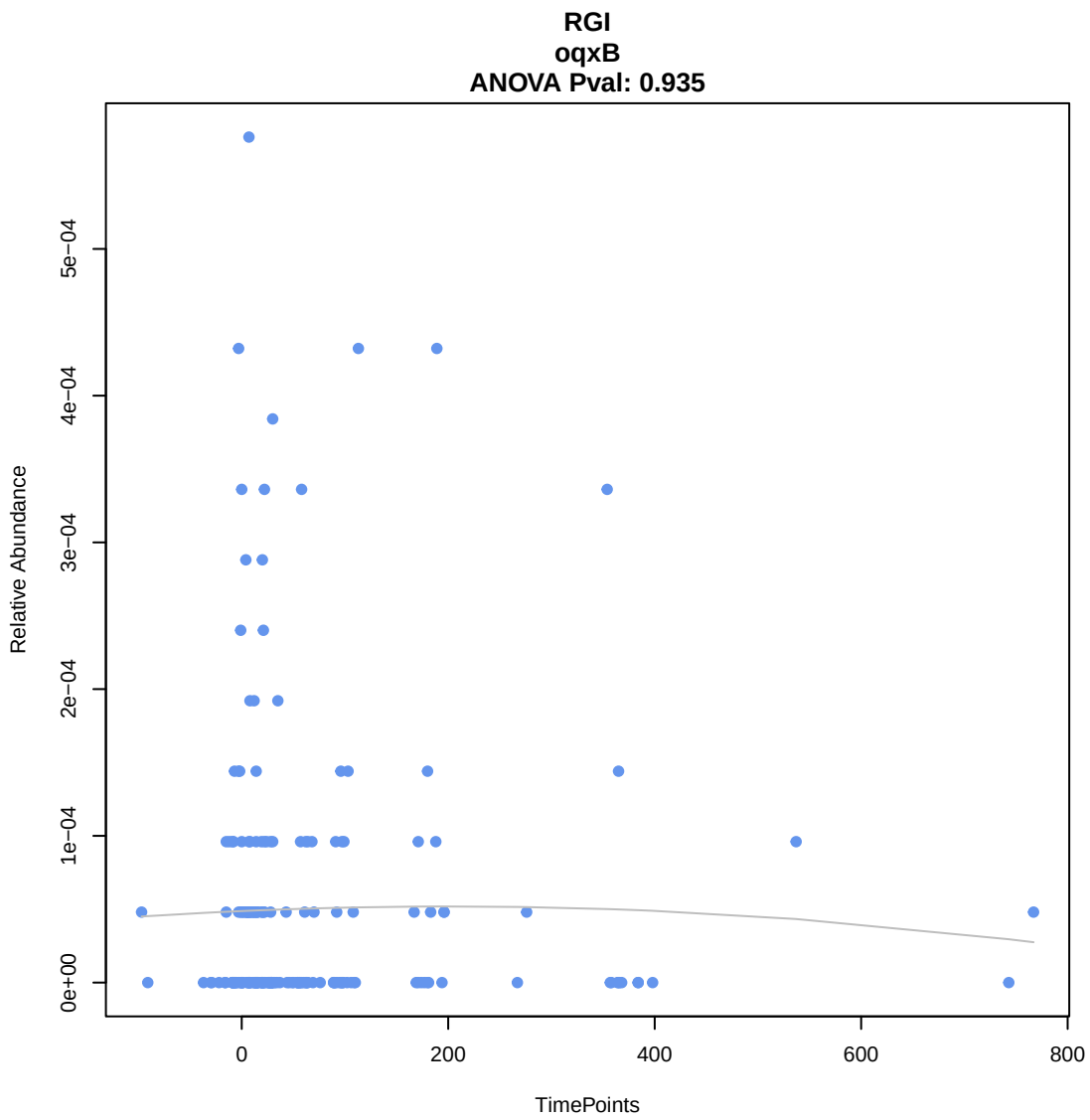

RGI
tet(O)
ANOVA Pval: 0.795
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

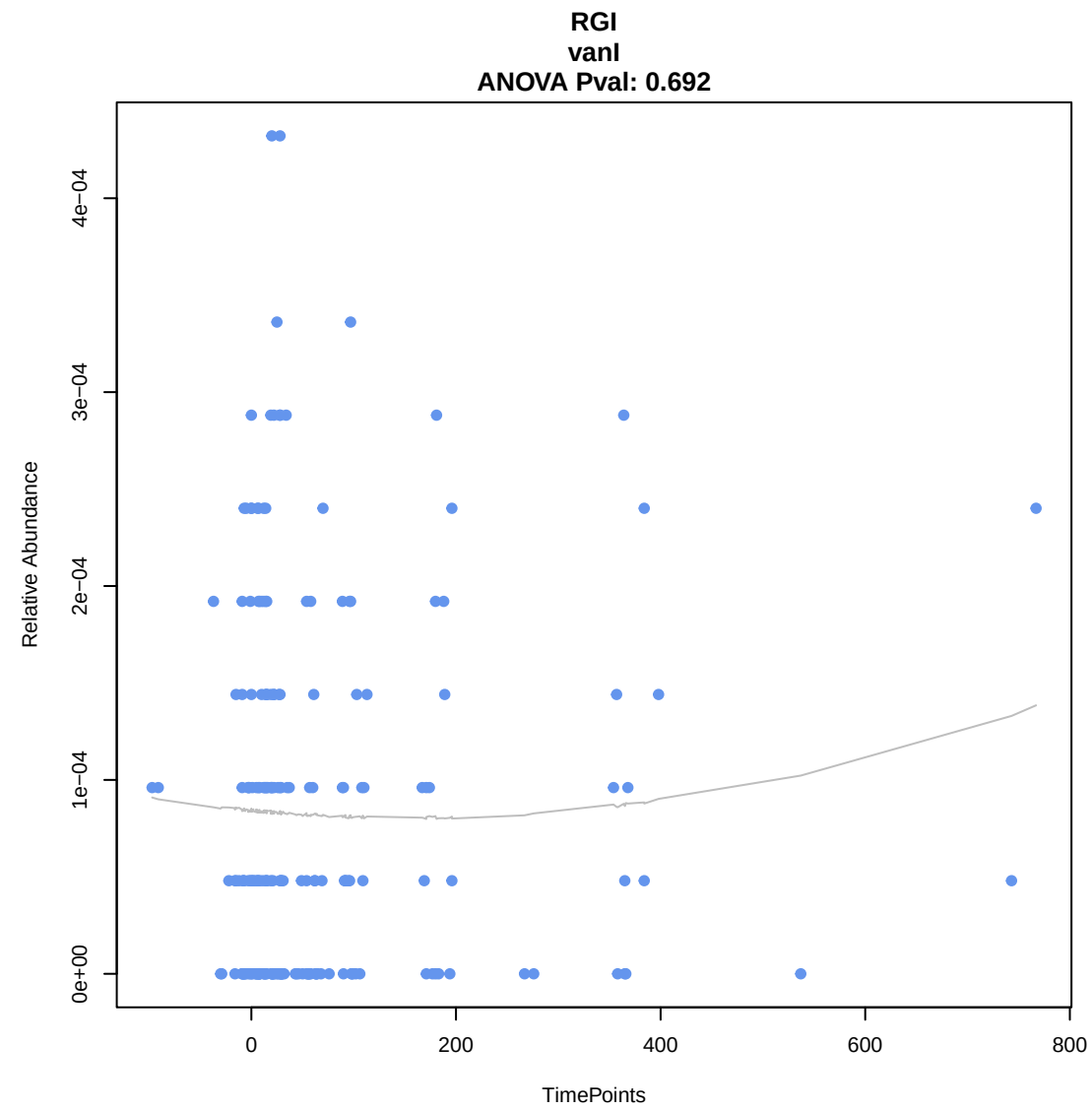

RGI
emrB
ANOVA Pval: 0.556
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

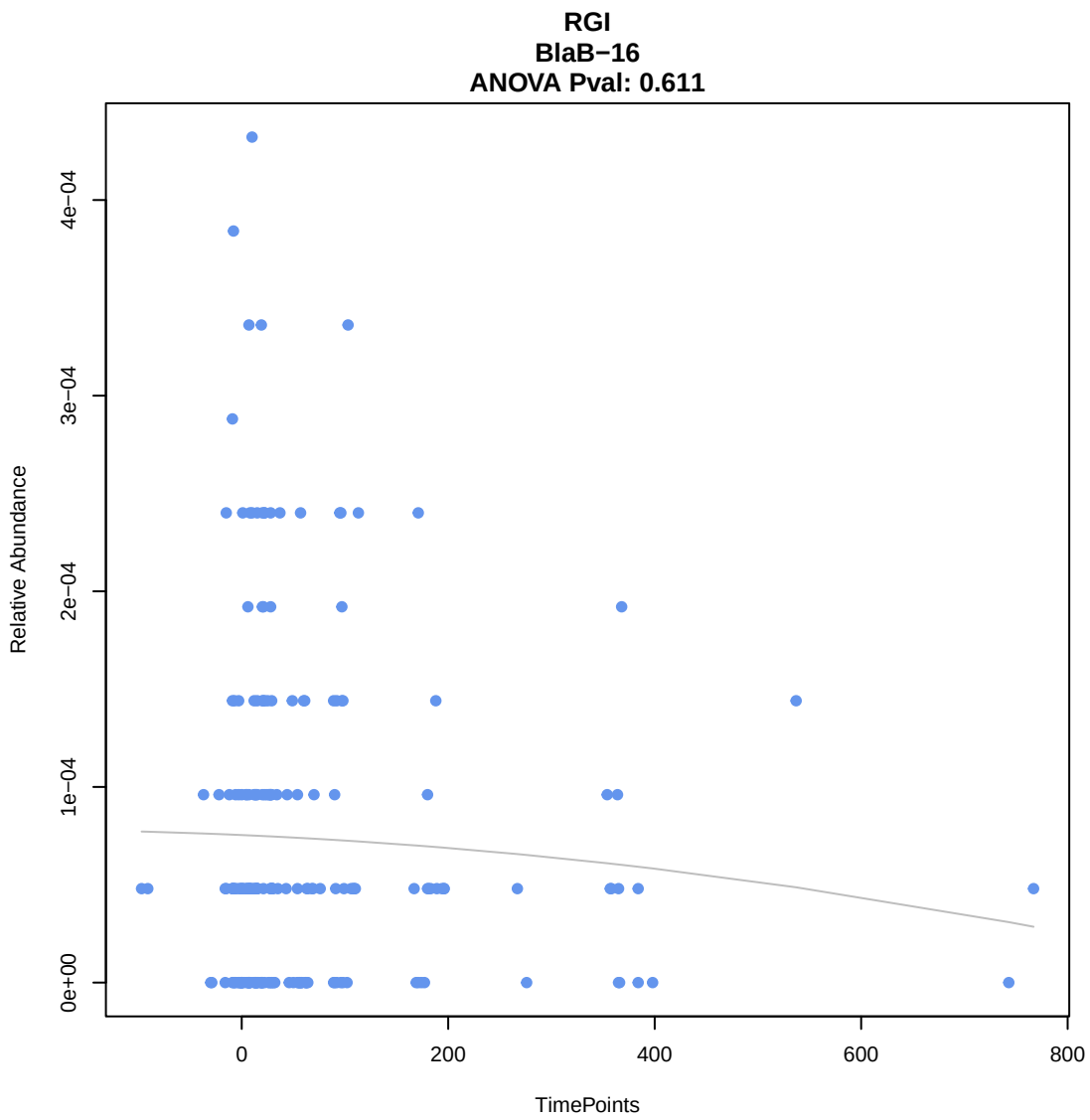

RGI
adeA
ANOVA Pval: 0.169
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

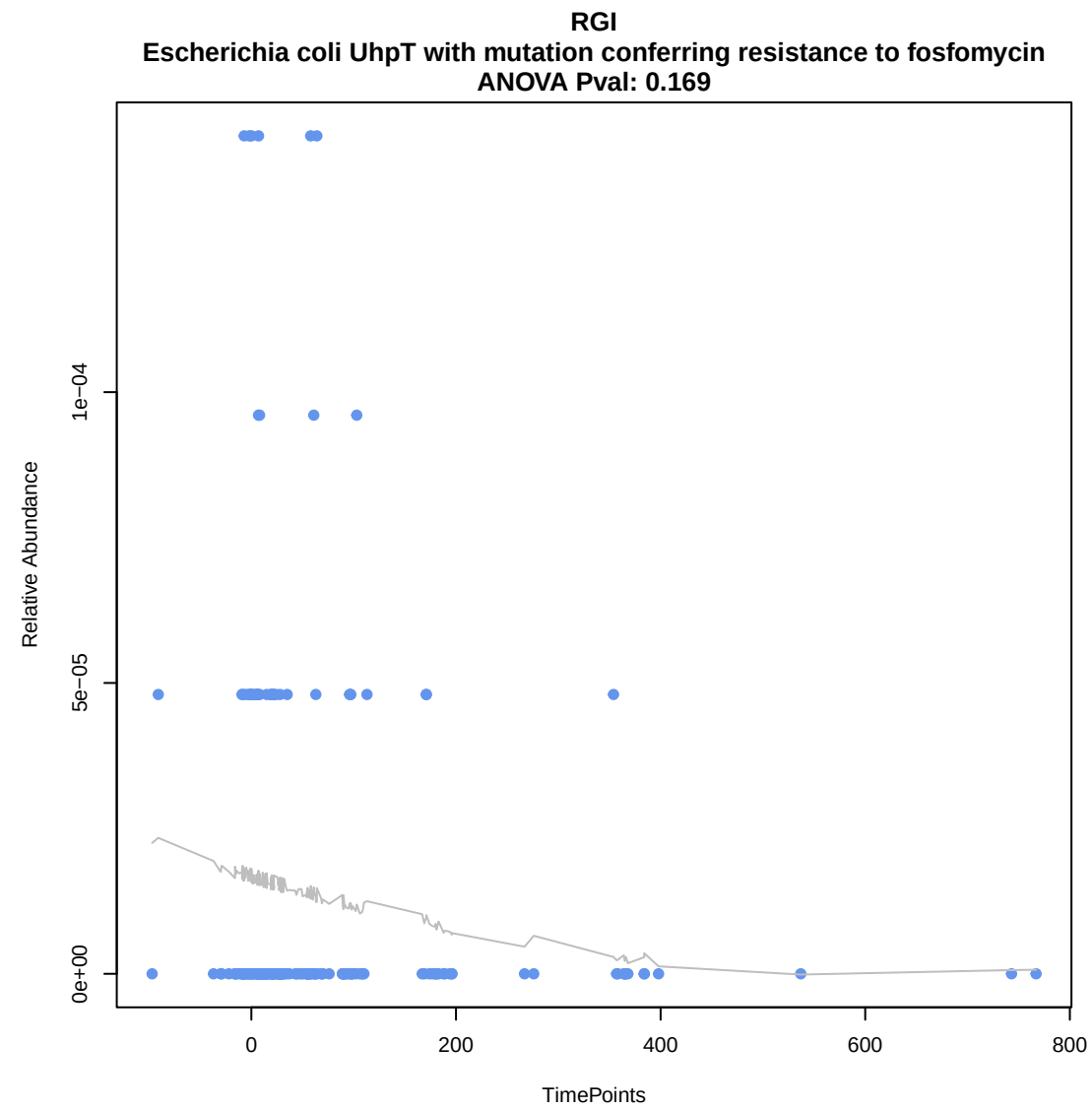

RGI
lmrD
ANOVA Pval: 0.389
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0.00025
0.00030
0
200
400
600
800
TimePoints


RGI
vanX gene in vanA cluster
ANOVA Pval: 0.694
Relative Abundance
0e+00
5e−05
1e−04
0
200
400
600
800
TimePoints

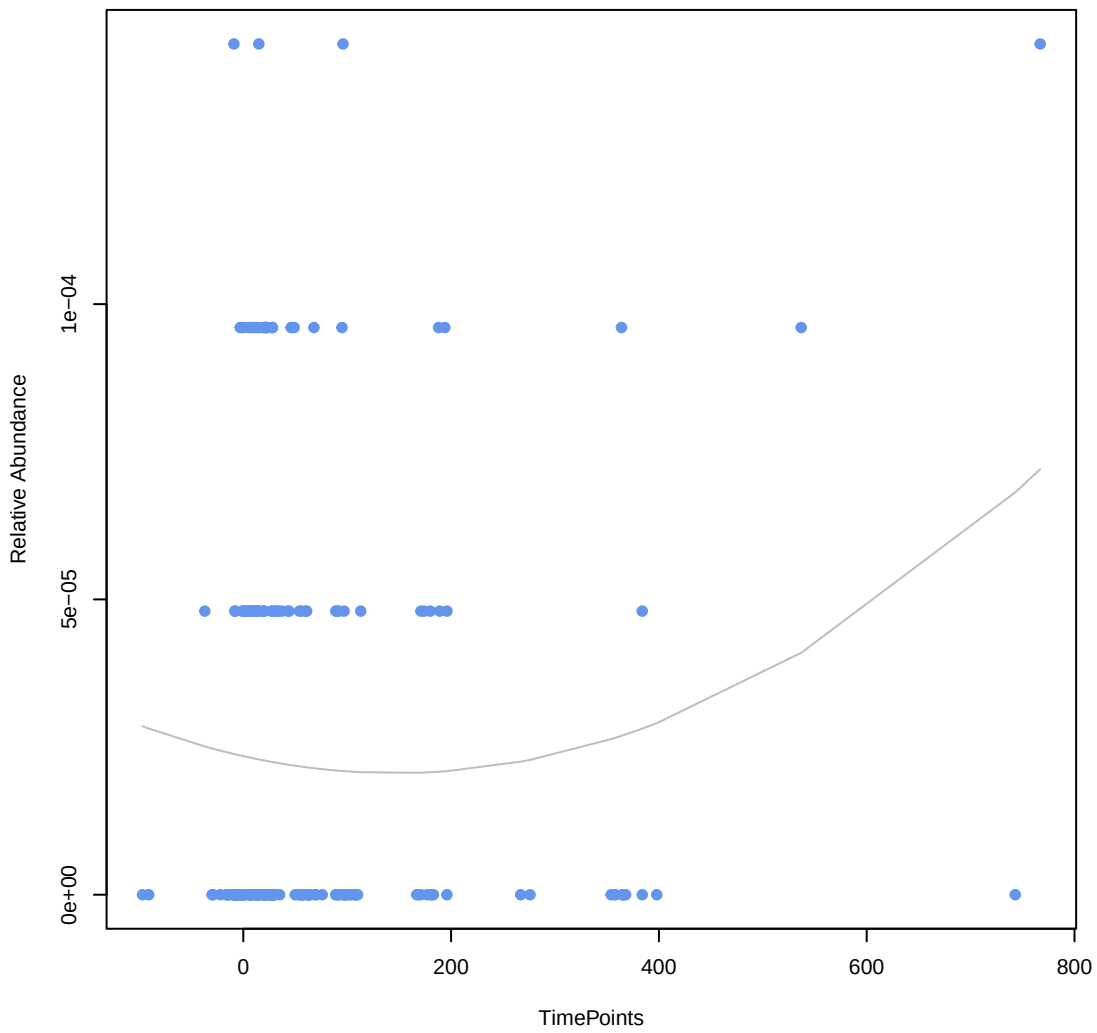

RGI
oqxB
ANOVA Pval: 0.935
Relative Abundance
0e+00
1e−04
2e−04
3e−04
4e−04
5e−04
0
200
400
600
800
TimePoints


RGI
vanI
ANOVA Pval: 0.692
Relative Abundance
0e+00
1e−04
2e−04
3e−04
4e−04
0
200
400
600
800
TimePoints

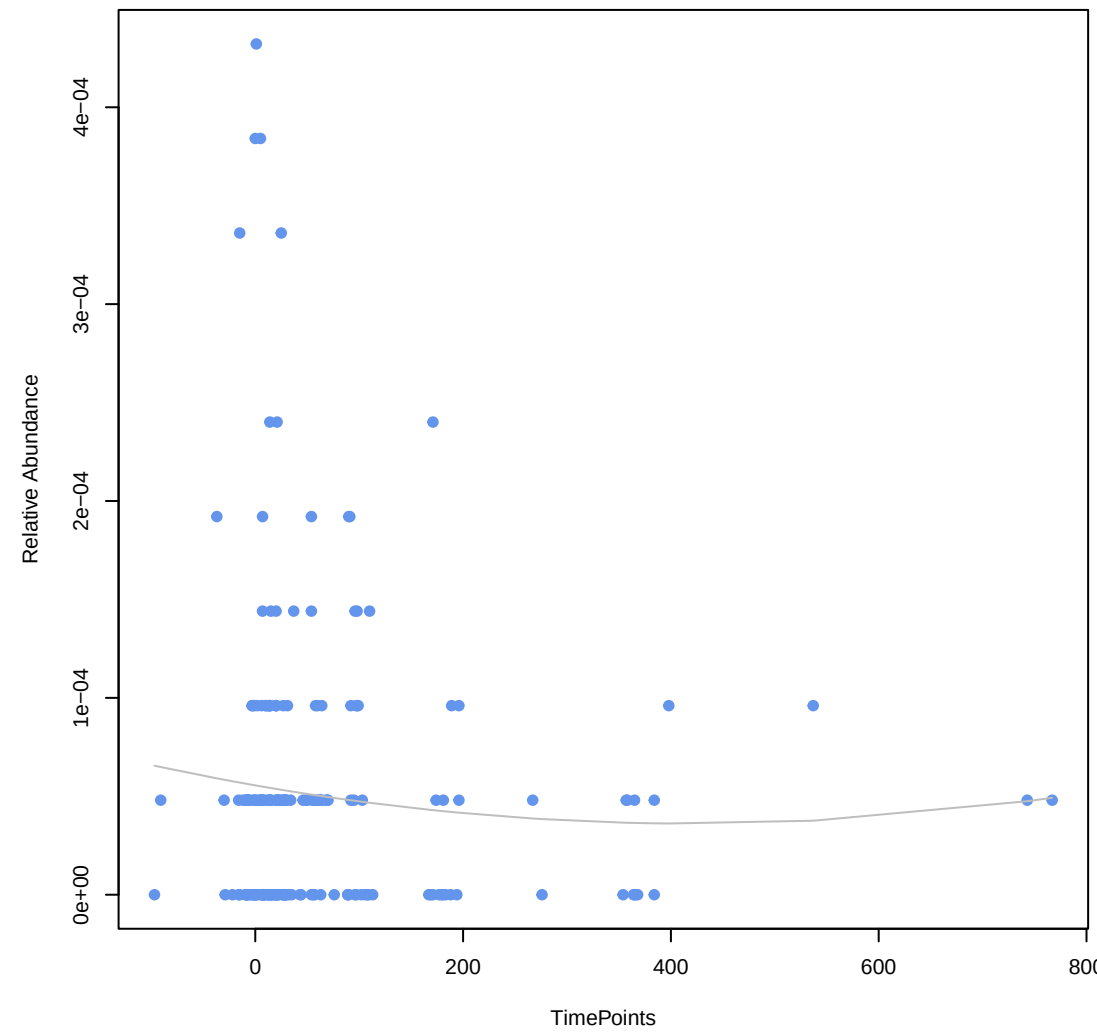

RGI
BlaB−16
ANOVA Pval: 0.611
Relative Abundance
0e+00
1e−04
2e−04
3e−04
4e−04
0
200
400
600
800
TimePoints


RGI
Escherichia coli UhpT with mutation conferring resistance to fosfomycin
ANOVA Pval: 0.169
Relative Abundance
0e+00
5e−05
1e−04
0
200
400
600
800
TimePoints

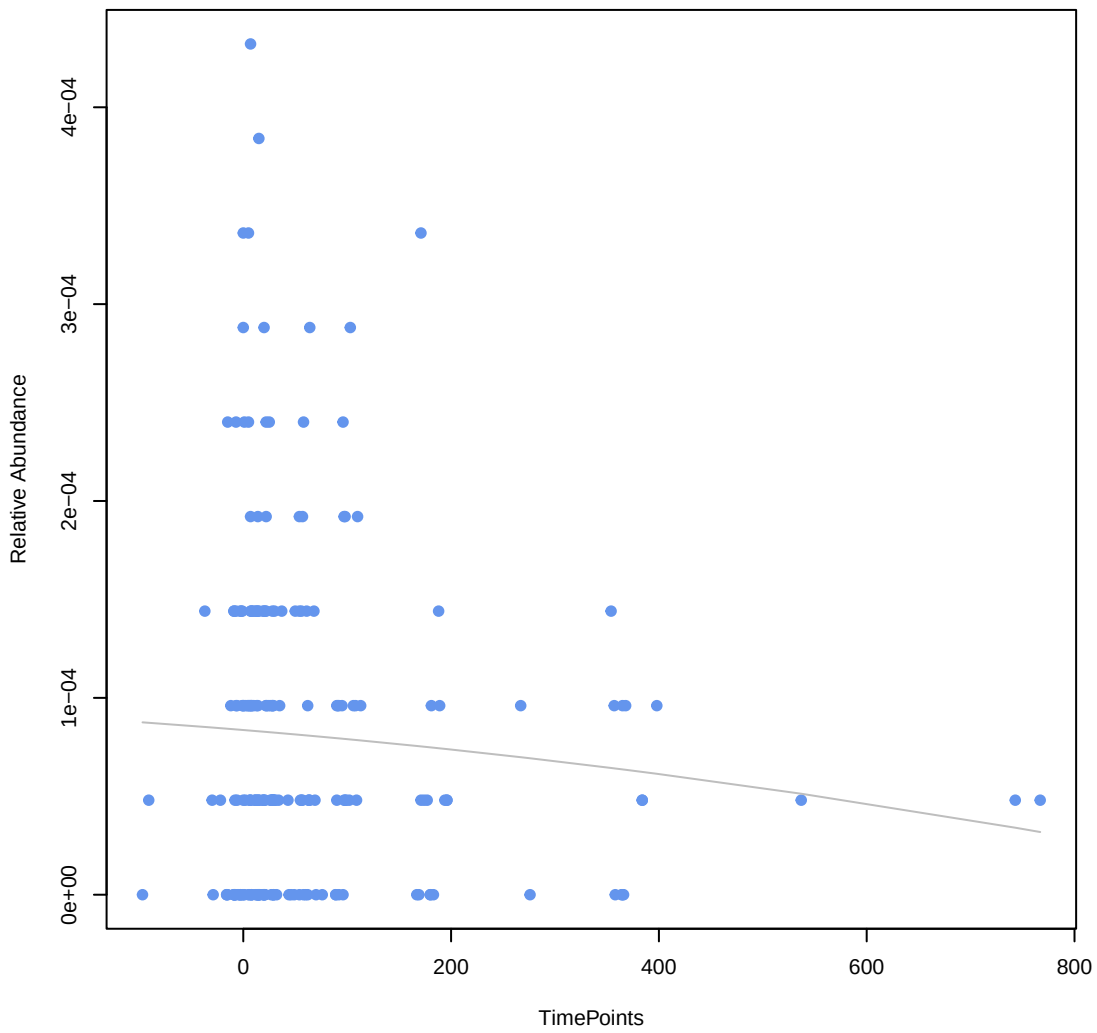
RGI
tet(W/32/O)
ANOVA Pval: 0.132



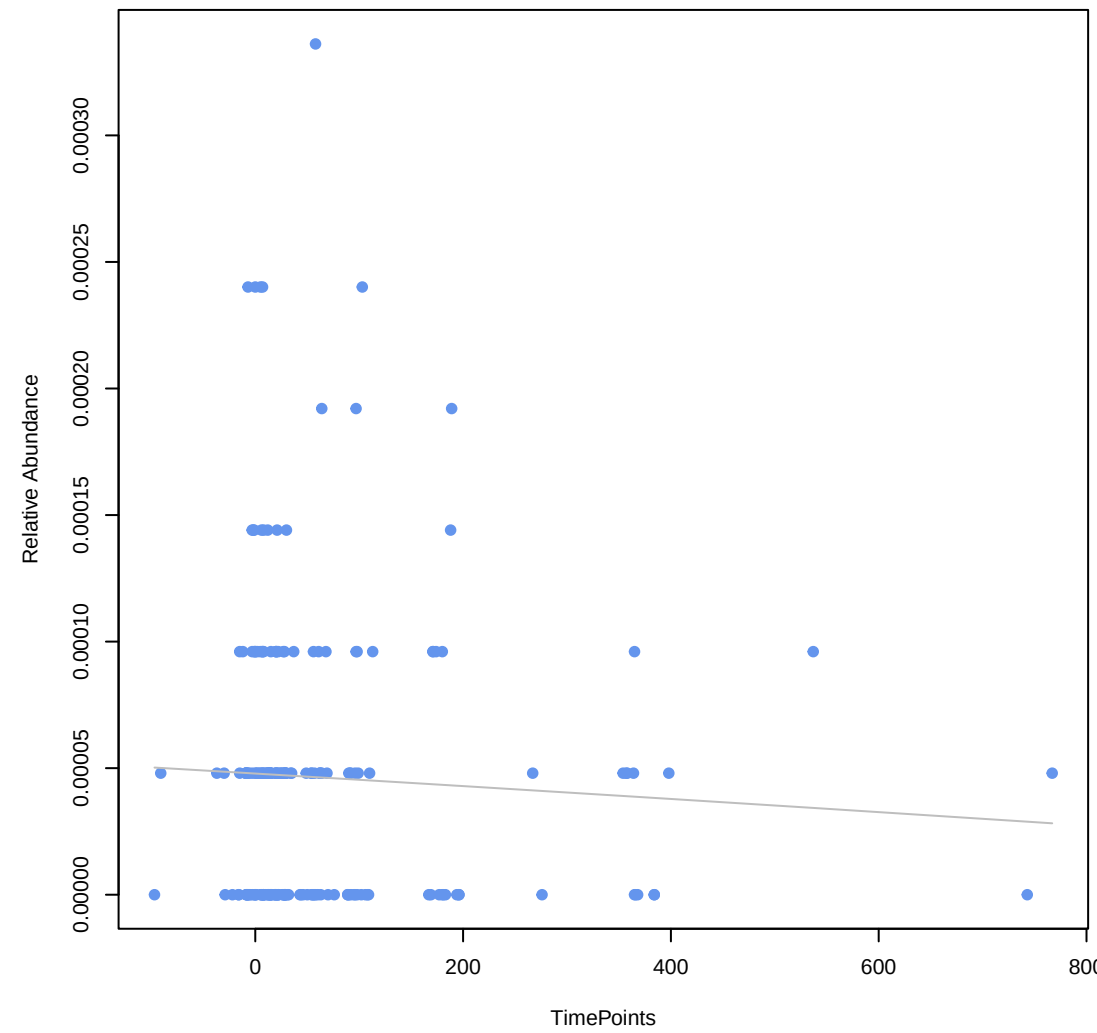

RGI
AcrF
ANOVA Pval: 0.532



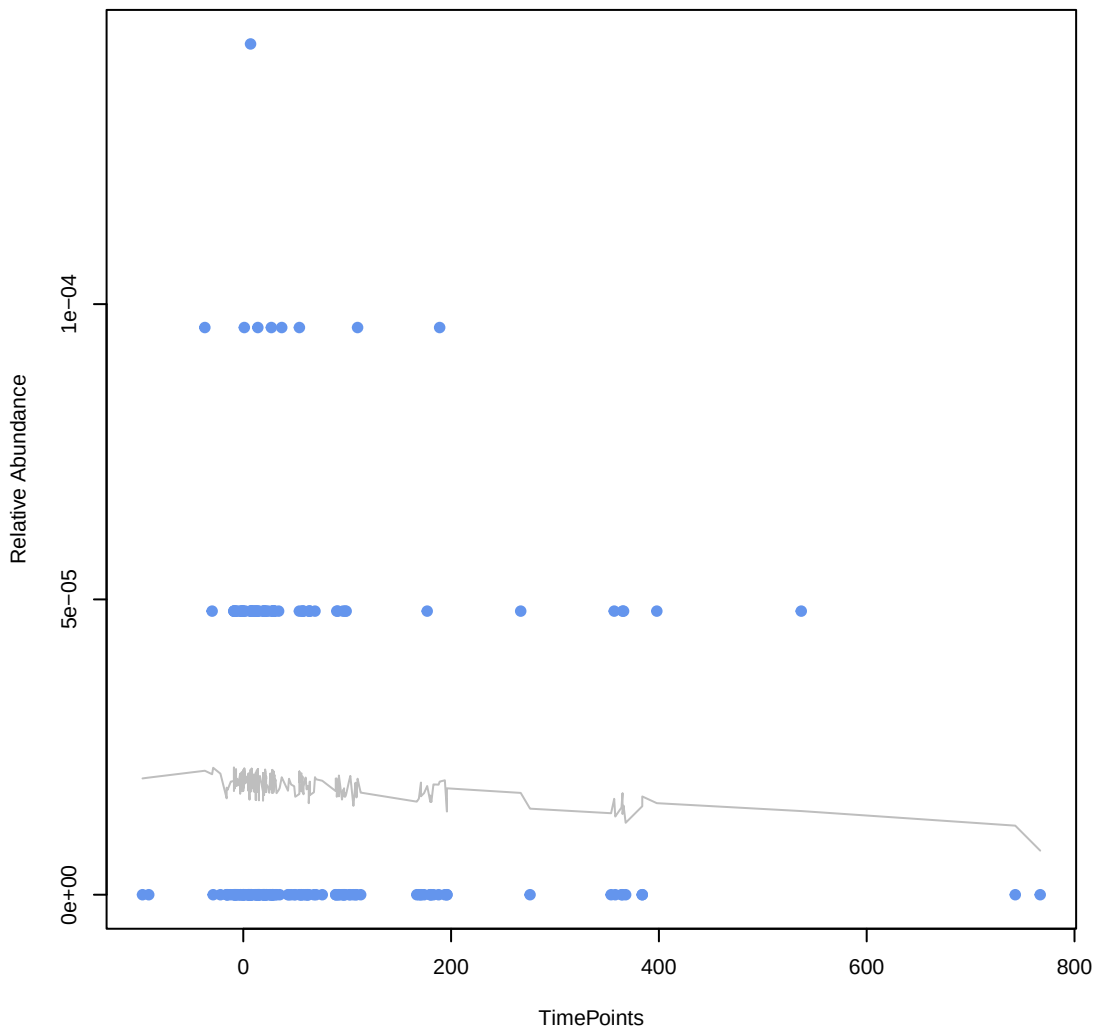

RGI
acrD
ANOVA Pval: 0.477



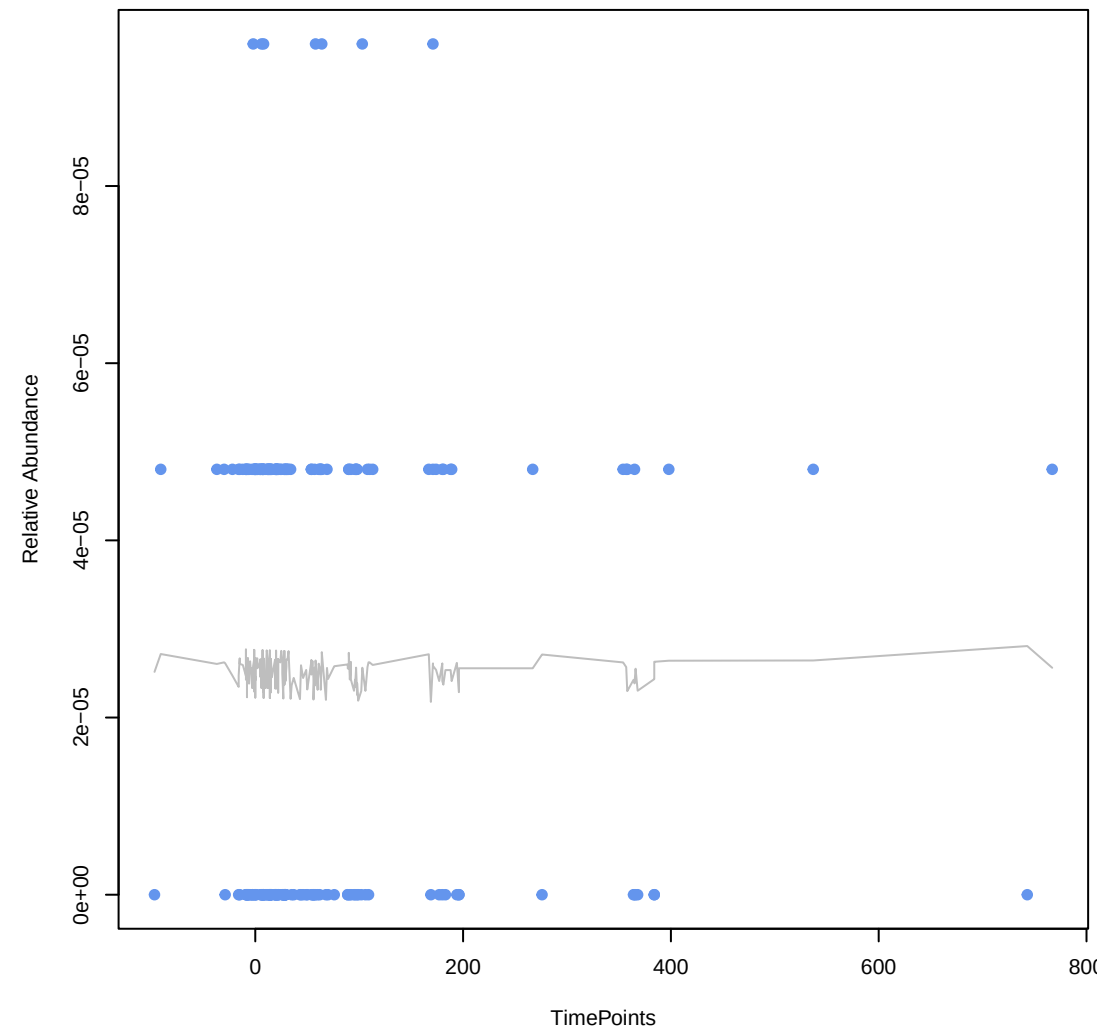

RGI
CRP
ANOVA Pval: 0.751

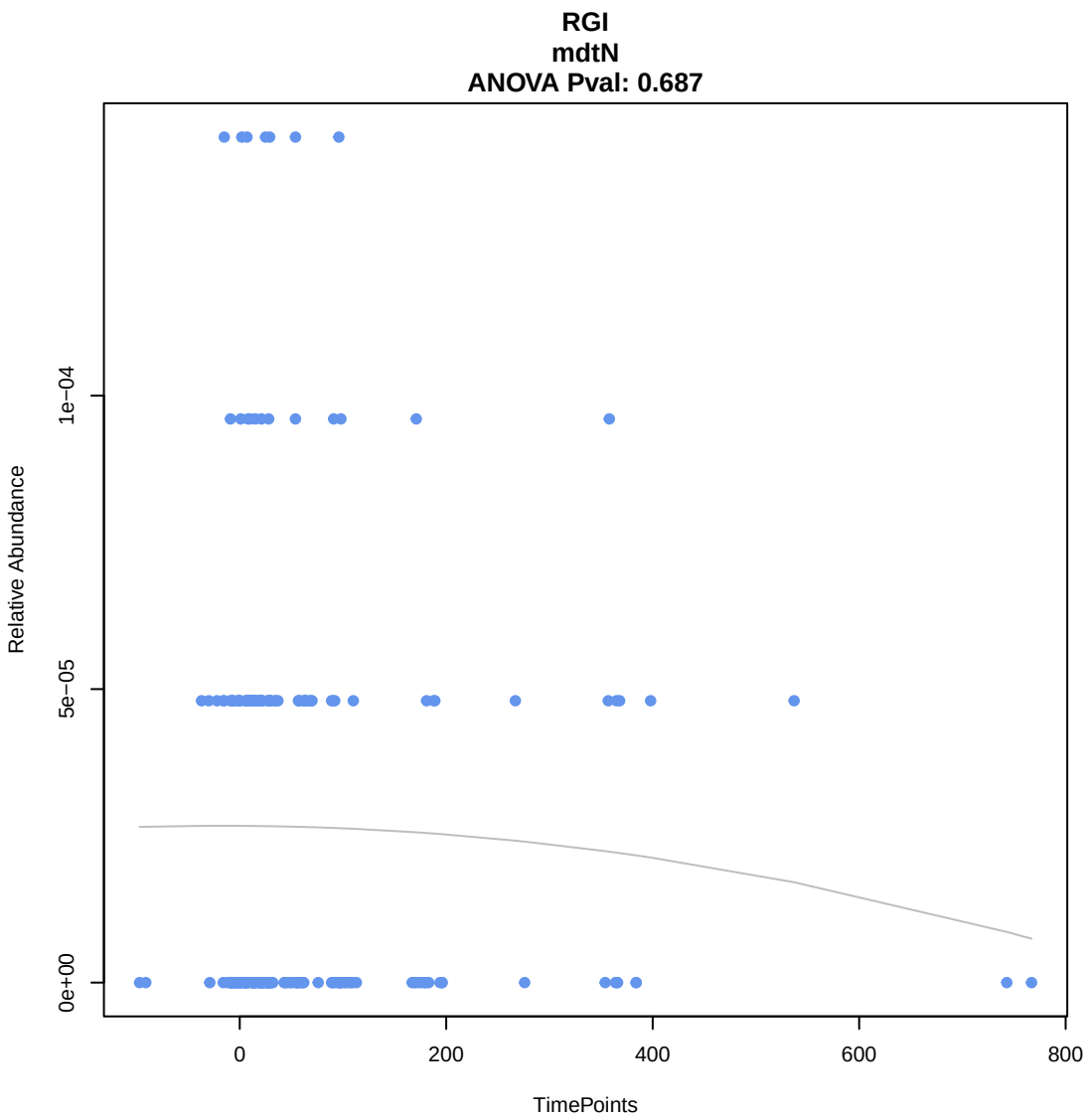


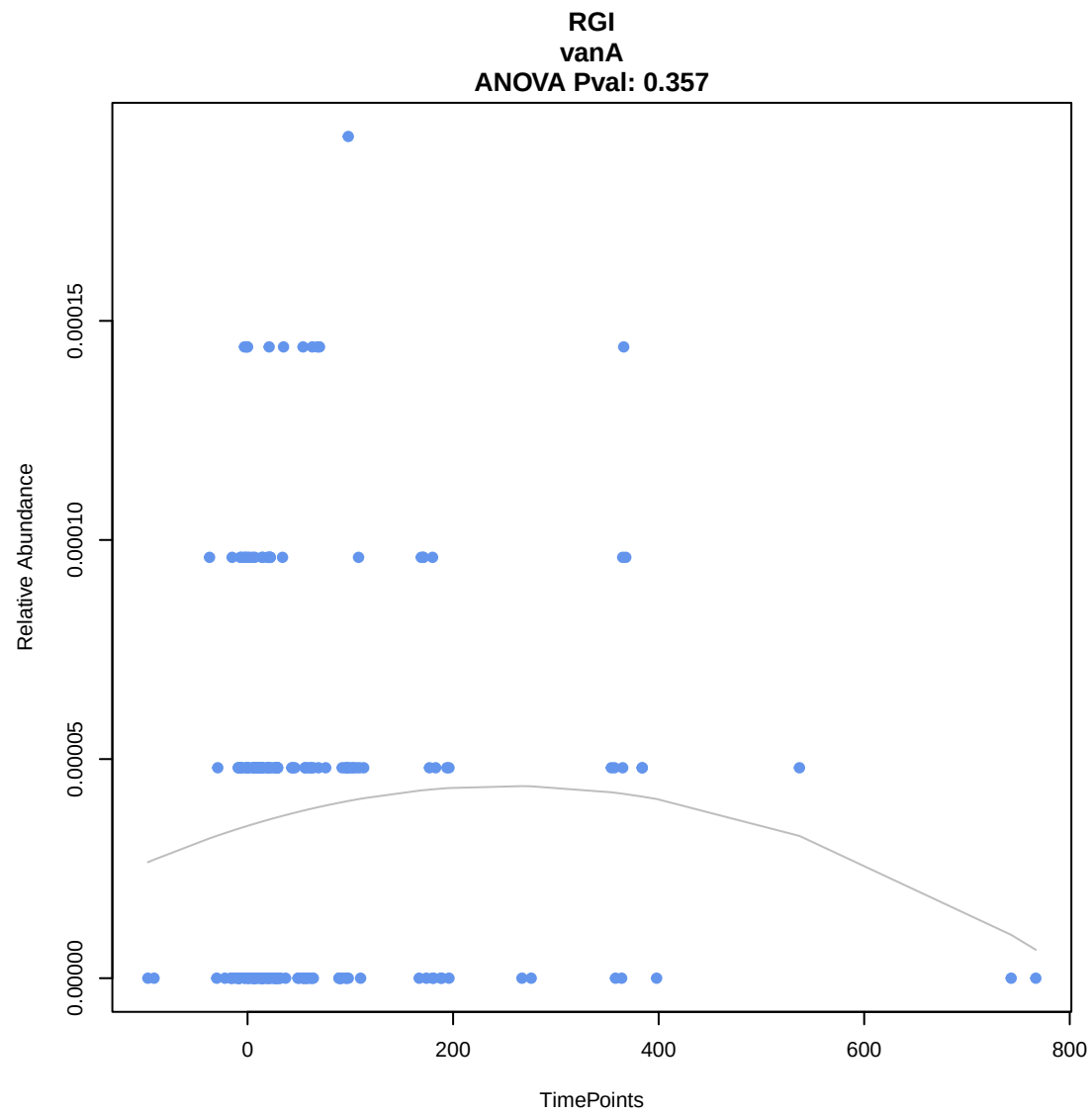

RGI
gadX
ANOVA Pval: 0.798

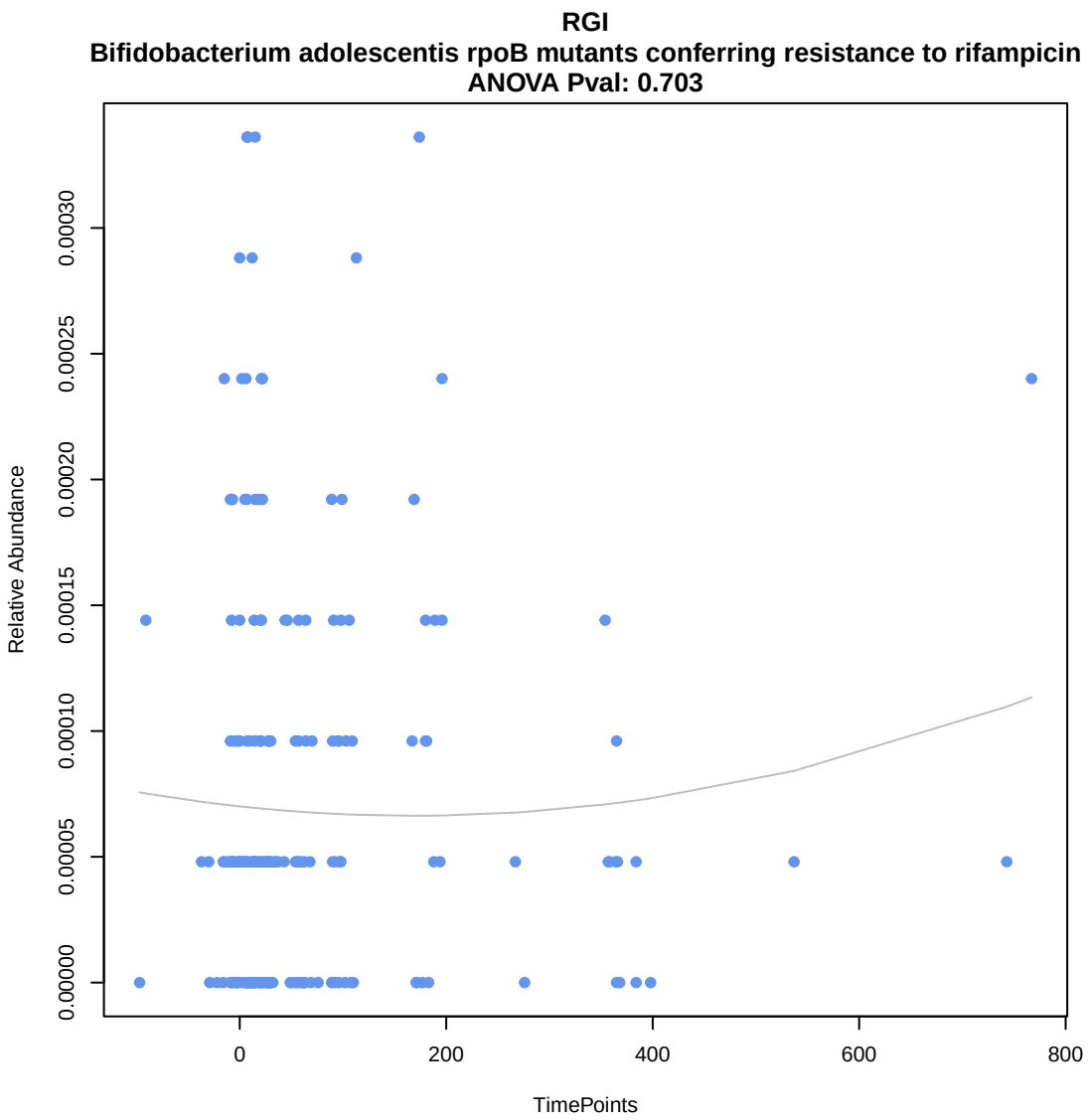


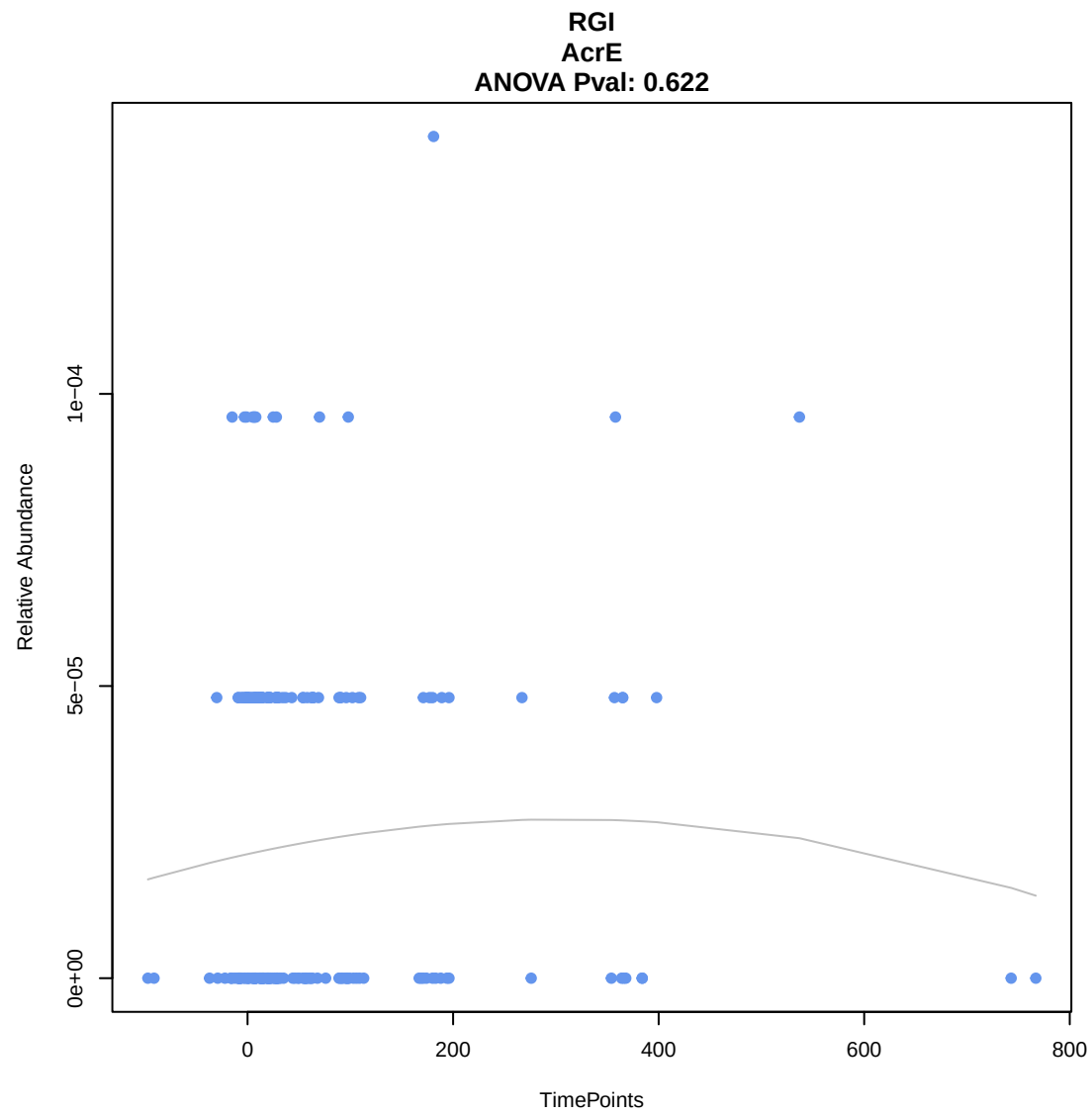

RGI
Escherichia coli EF−Tu mutants conferring resistance to Pulvomycin
ANOVA Pval: 0.988

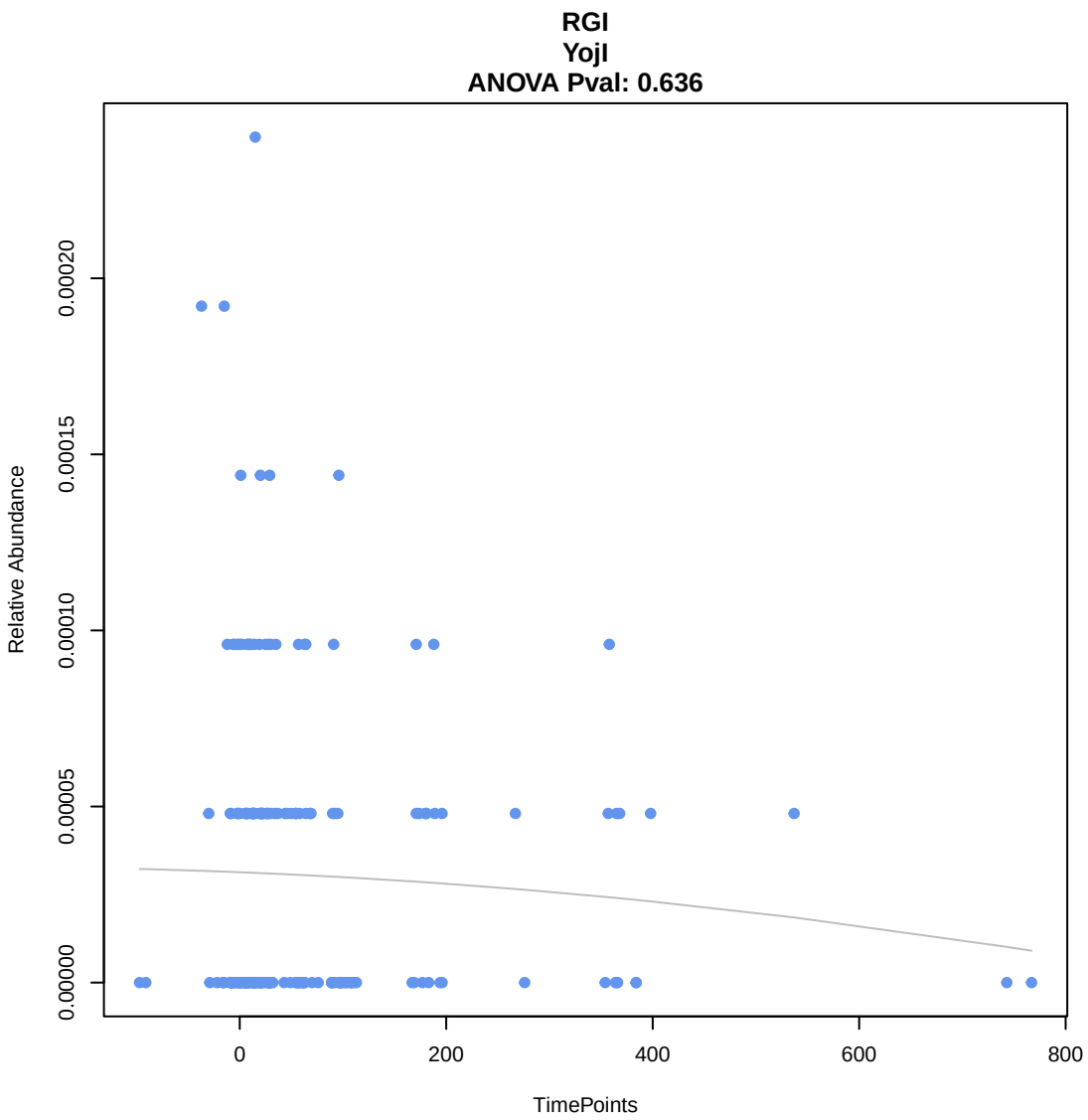


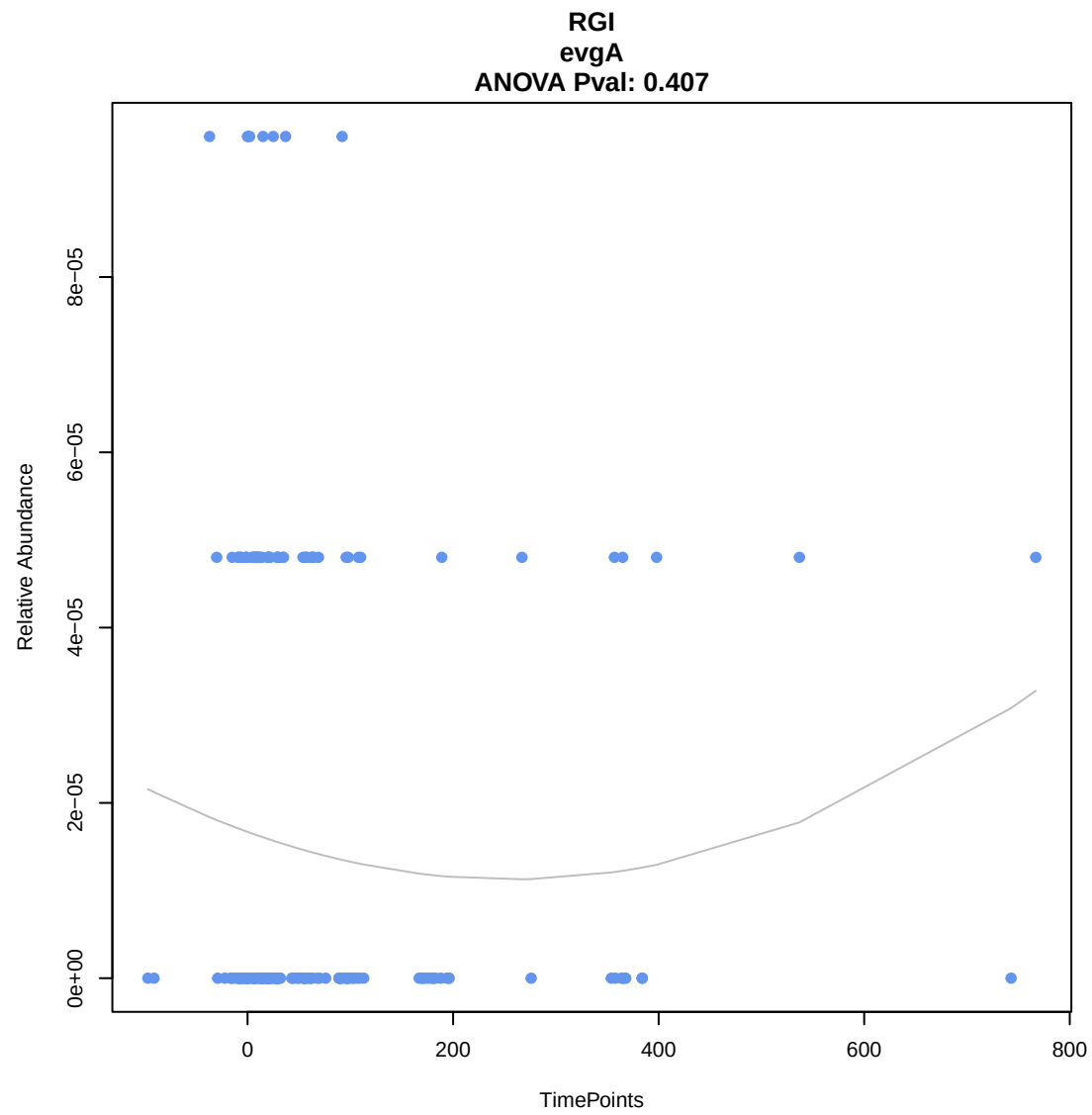

RGI
mdtN
ANOVA Pval: 0.687
Relative Abundance
0e+00
5e−05
1e−04
0
200
400
600
800
TimePoints

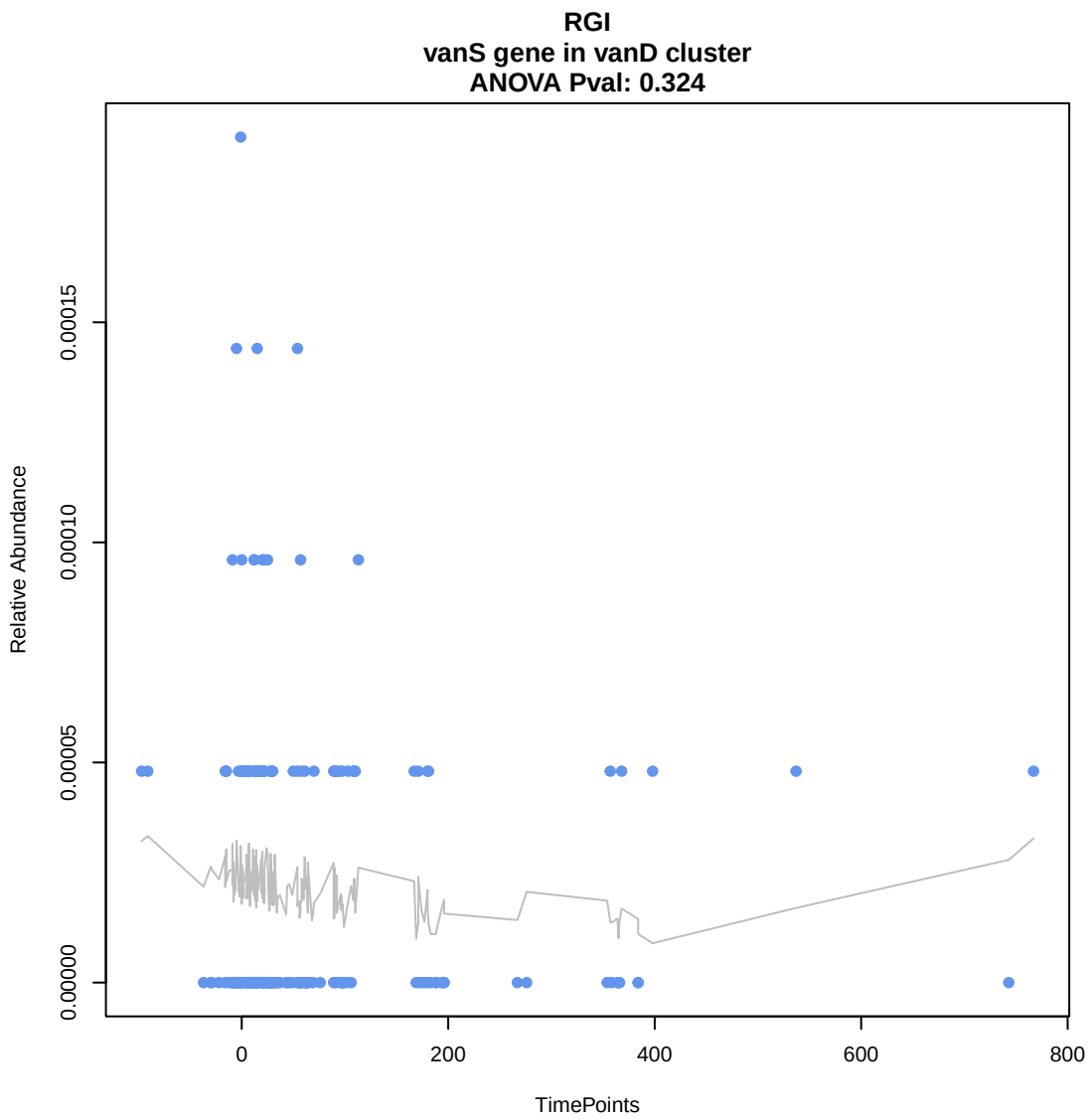

RGI
vanA
ANOVA Pval: 0.357
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

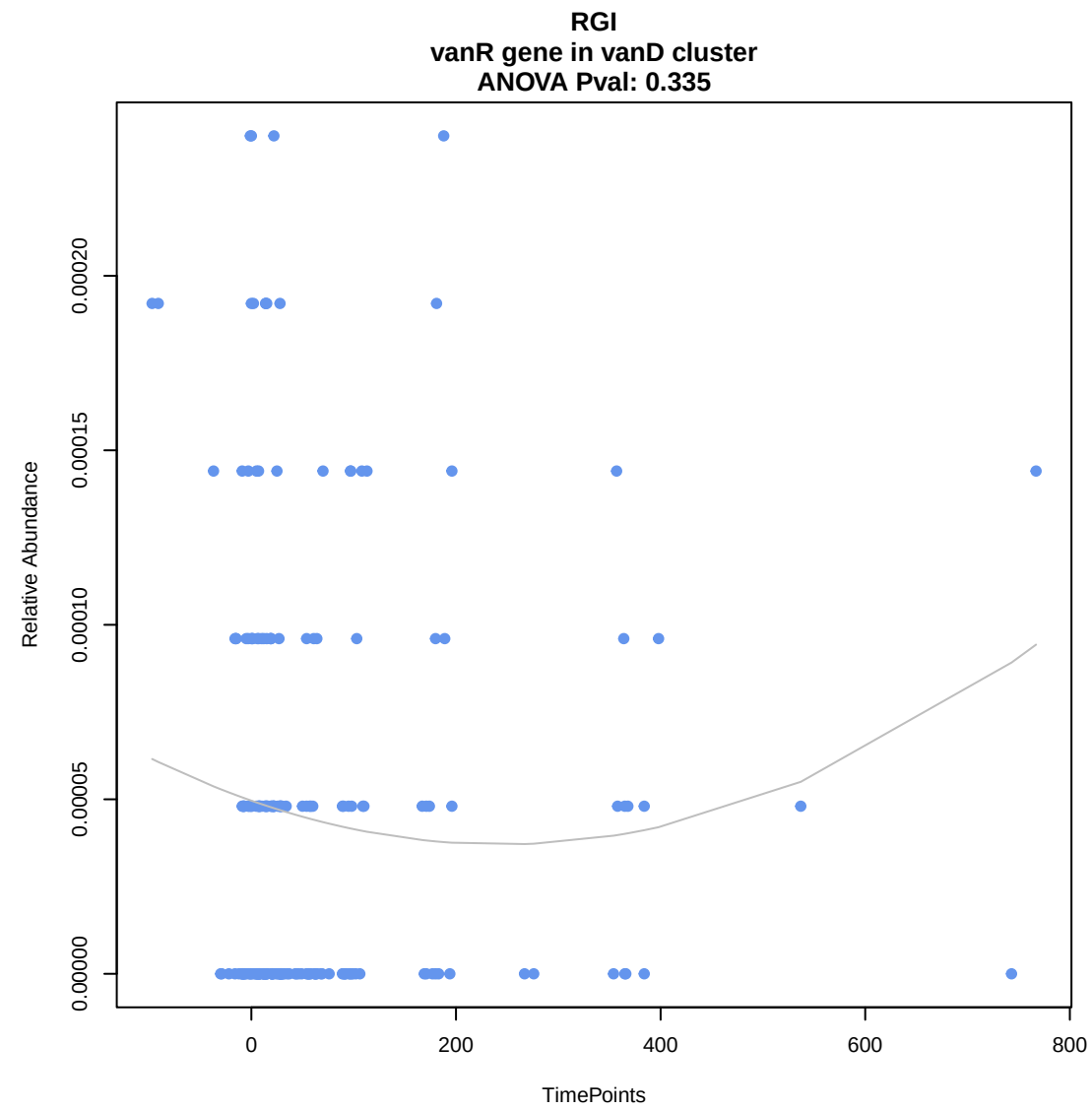

RGI
Bifidobacterium adolescentis rpoB mutants conferring resistance to rifampicin
ANOVA Pval: 0.703
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0.00025
0.00030
0
200
400
600
800
TimePoints

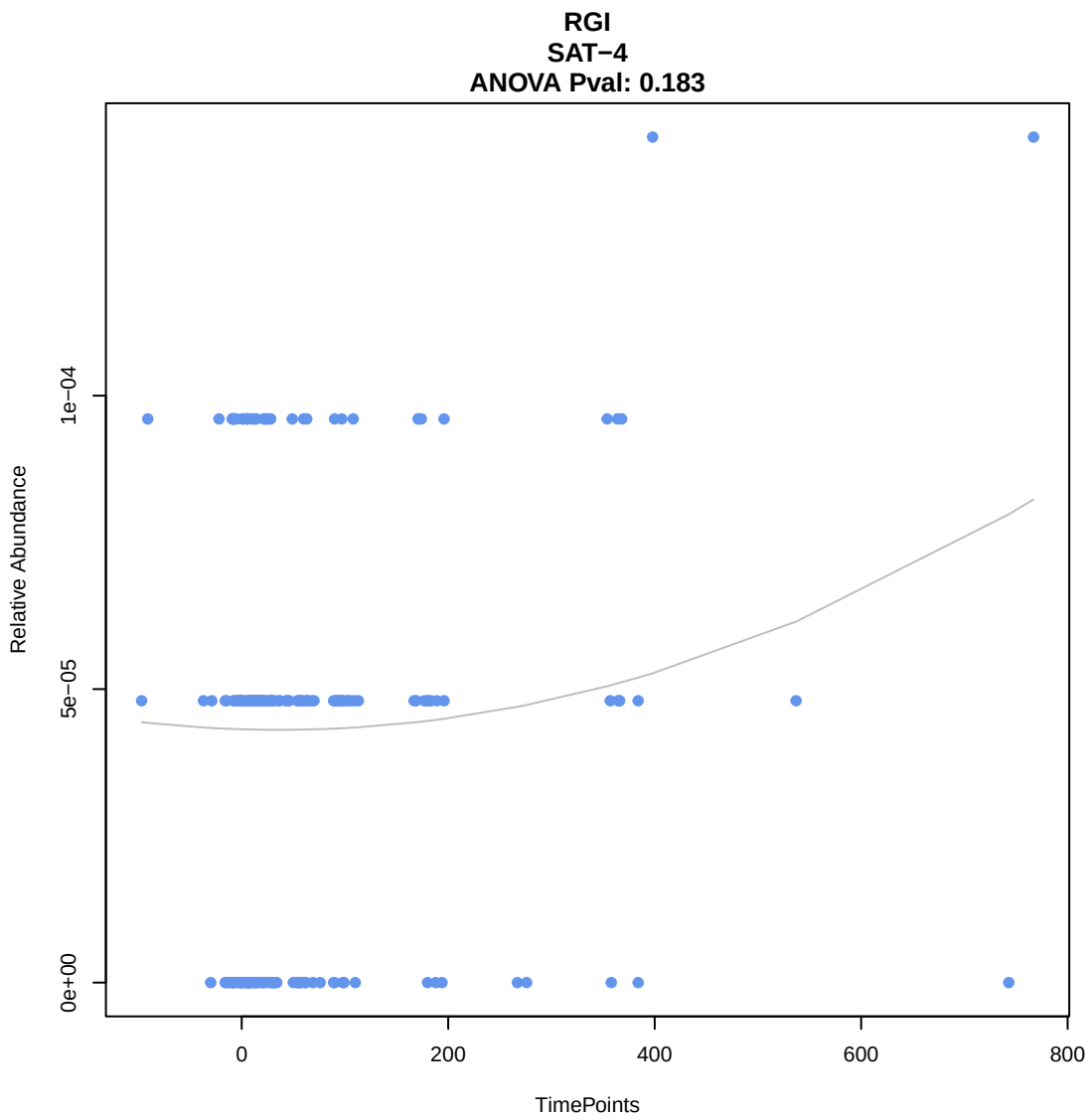

RGI
AcrE
ANOVA Pval: 0.622
Relative Abundance
0e+00
5e−05
1e−04
0
200
400
600
800
TimePoints

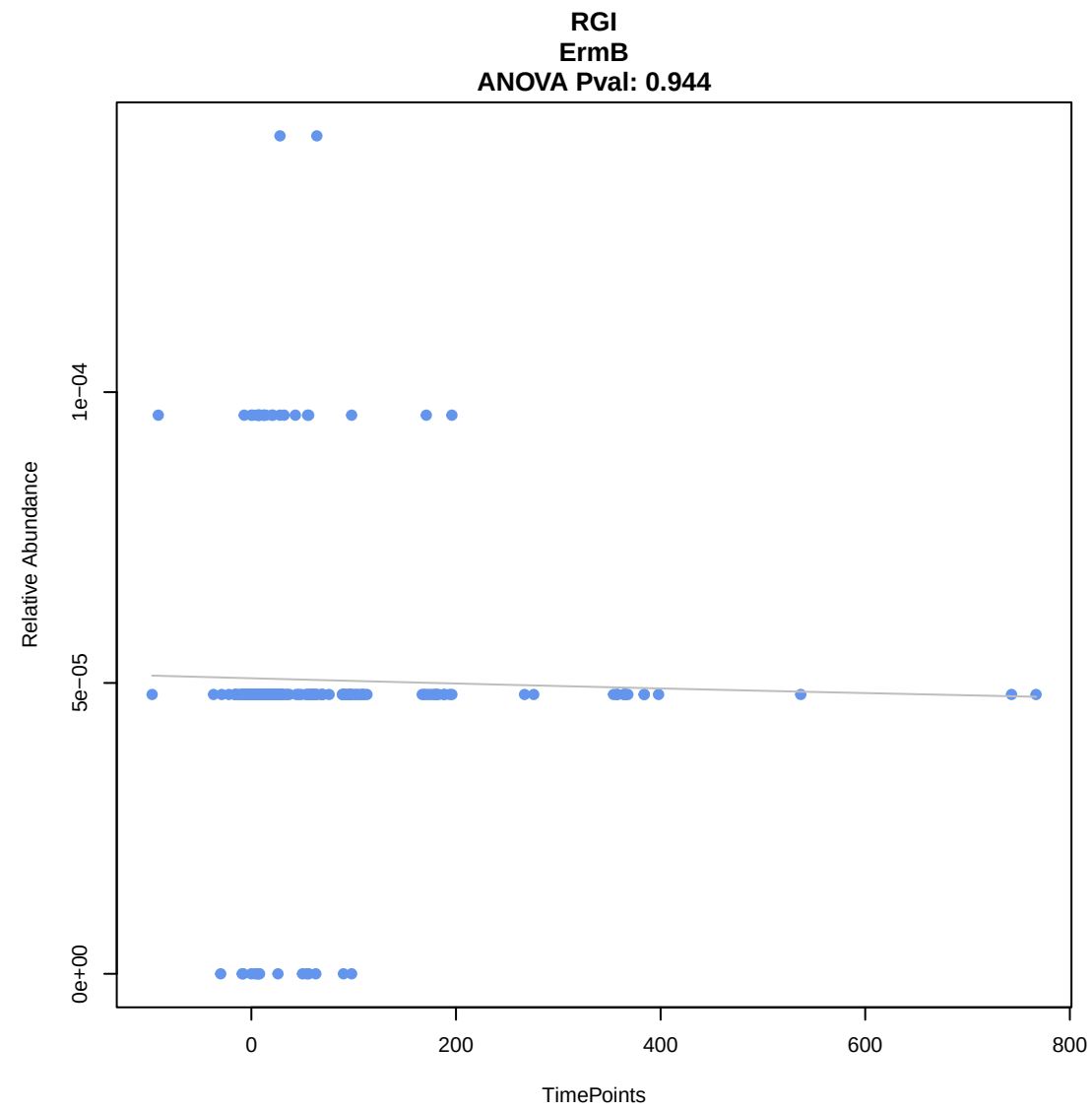

RGI
YojI
ANOVA Pval: 0.636
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0
200
400
600
800
TimePoints

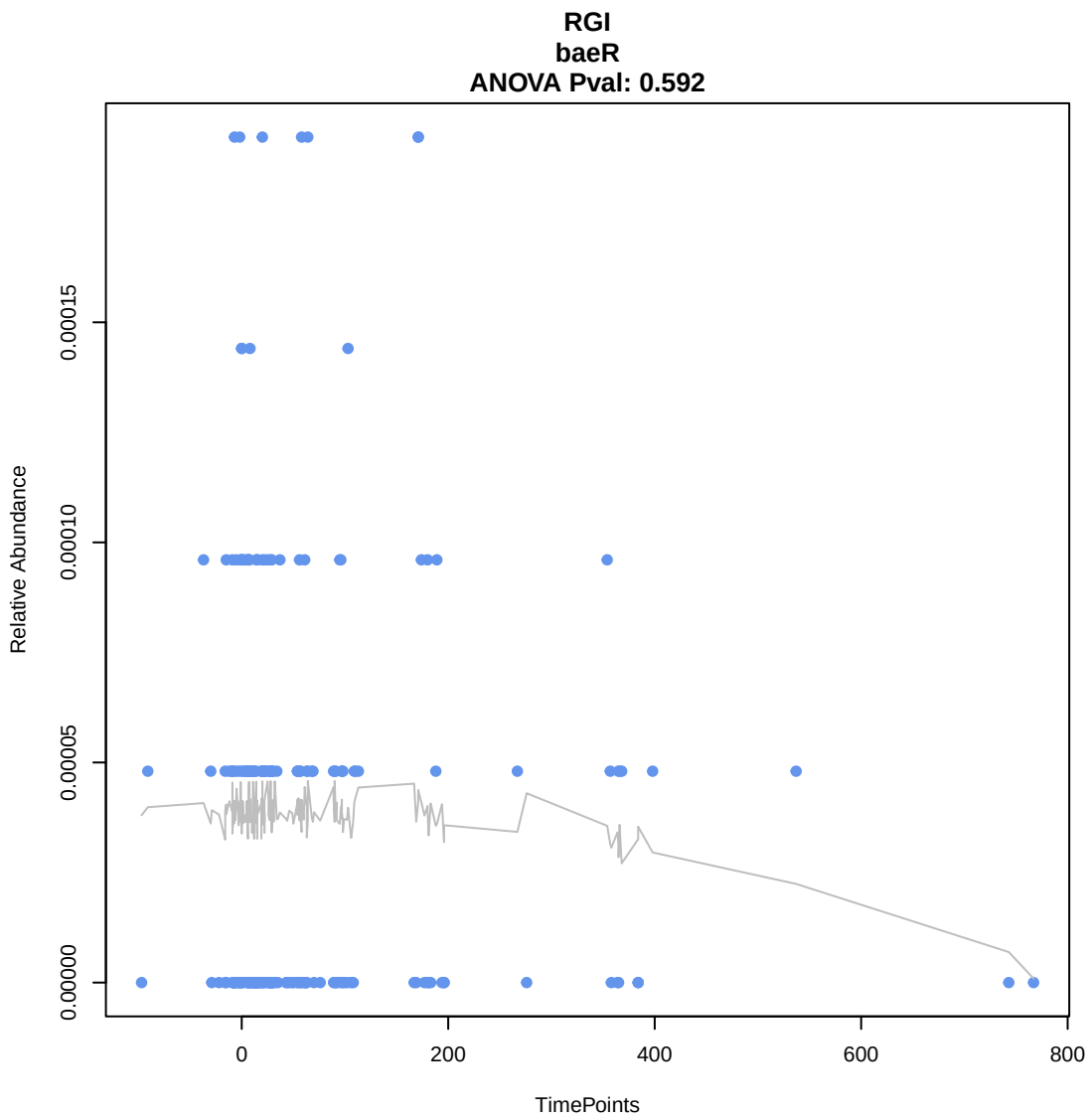

RGI
evgA
ANOVA Pval: 0.407
Relative Abundance
0e+00
2e−05
4e−05
6e−05
8e−05
0
200
400
600
800
TimePoints

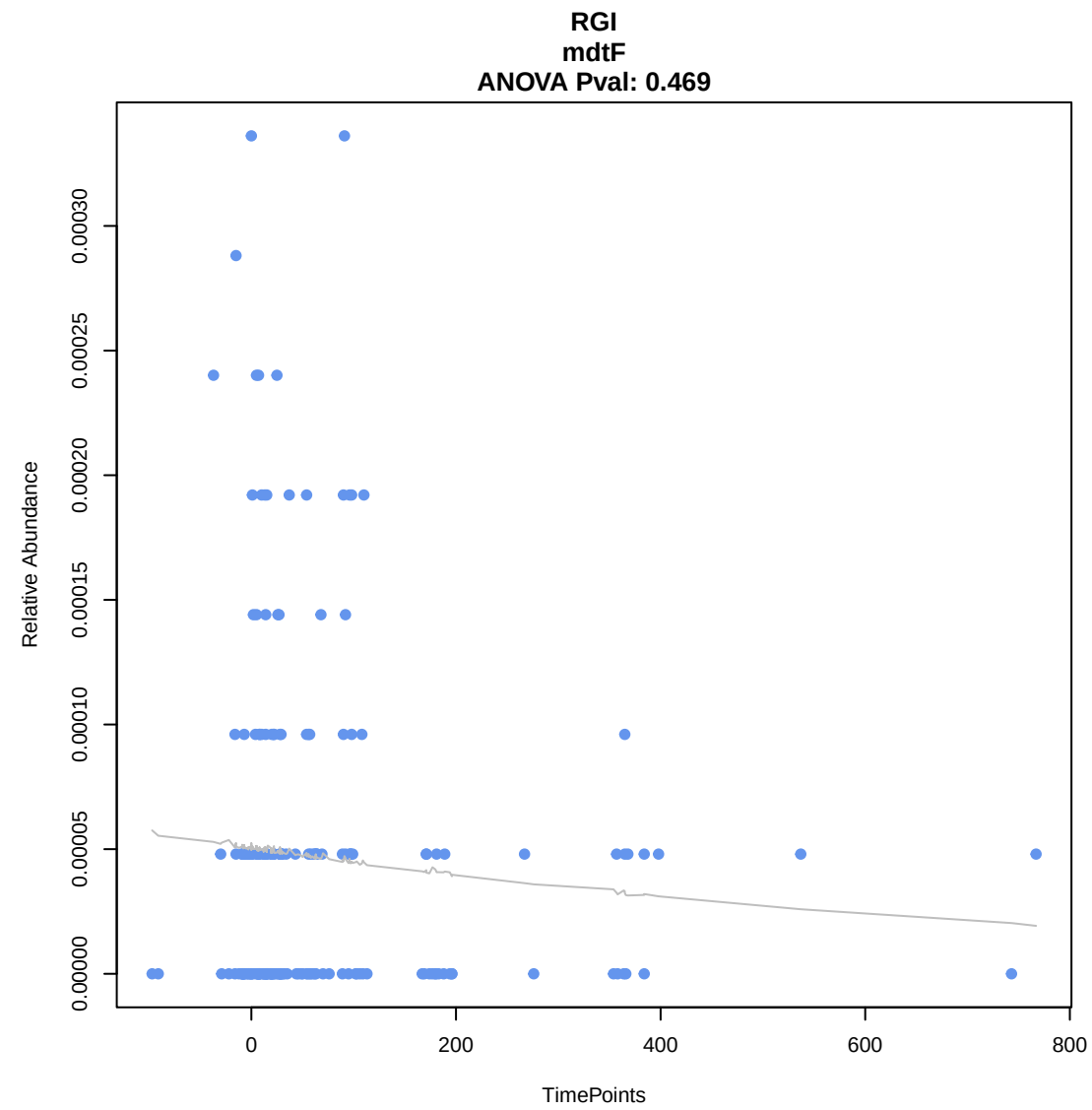

RGI
vanS gene in vanD cluster
ANOVA Pval: 0.324
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints


RGI
vanR gene in vanD cluster
ANOVA Pval: 0.335
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0
200
400
600
800
TimePoints

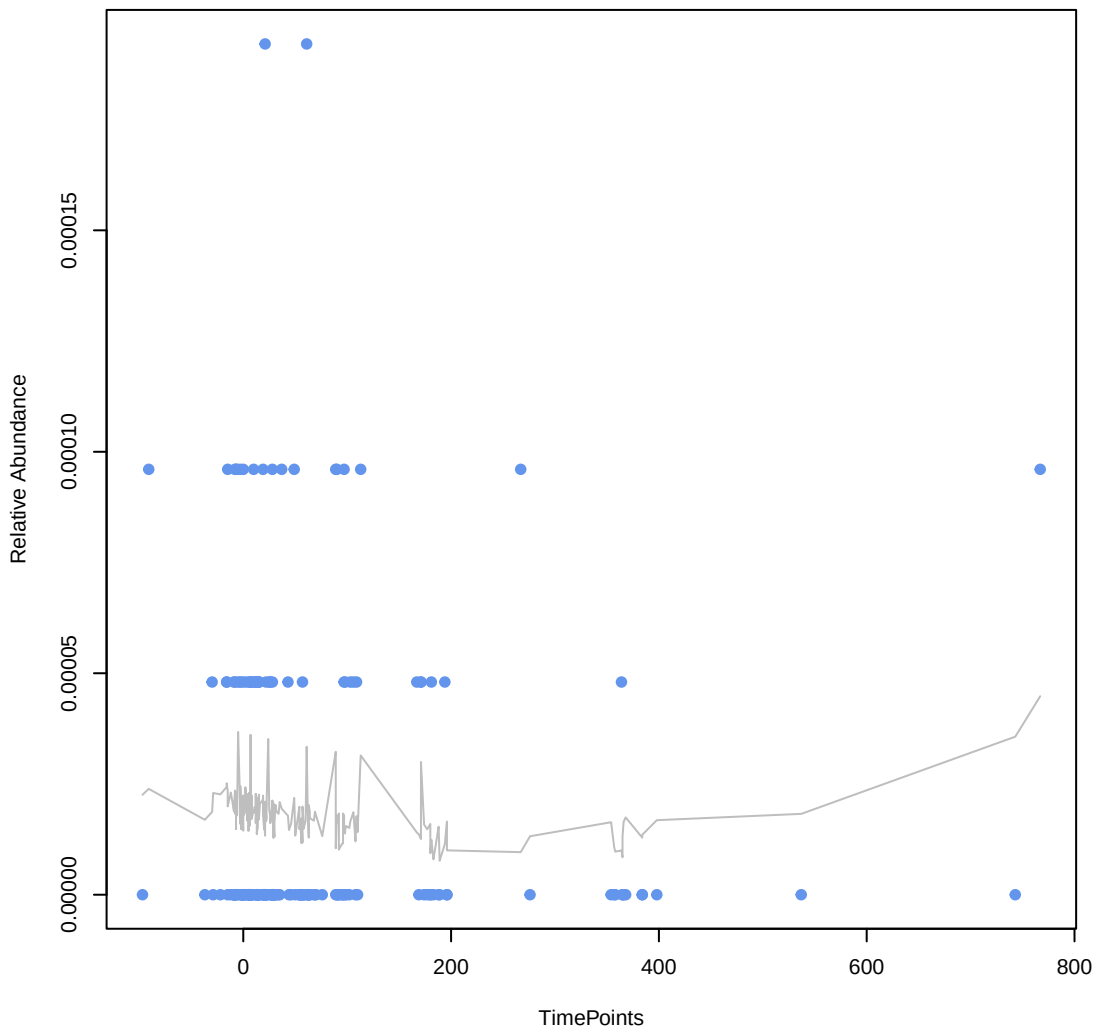

RGI
SAT−4
ANOVA Pval: 0.183
Relative Abundance
0e+00
5e−05
1e−04
0
200
400
600
800
TimePoints


RGI
ErmB
ANOVA Pval: 0.944
Relative Abundance
0e+00
5e−05
1e−04
0
200
400
600
800
TimePoints

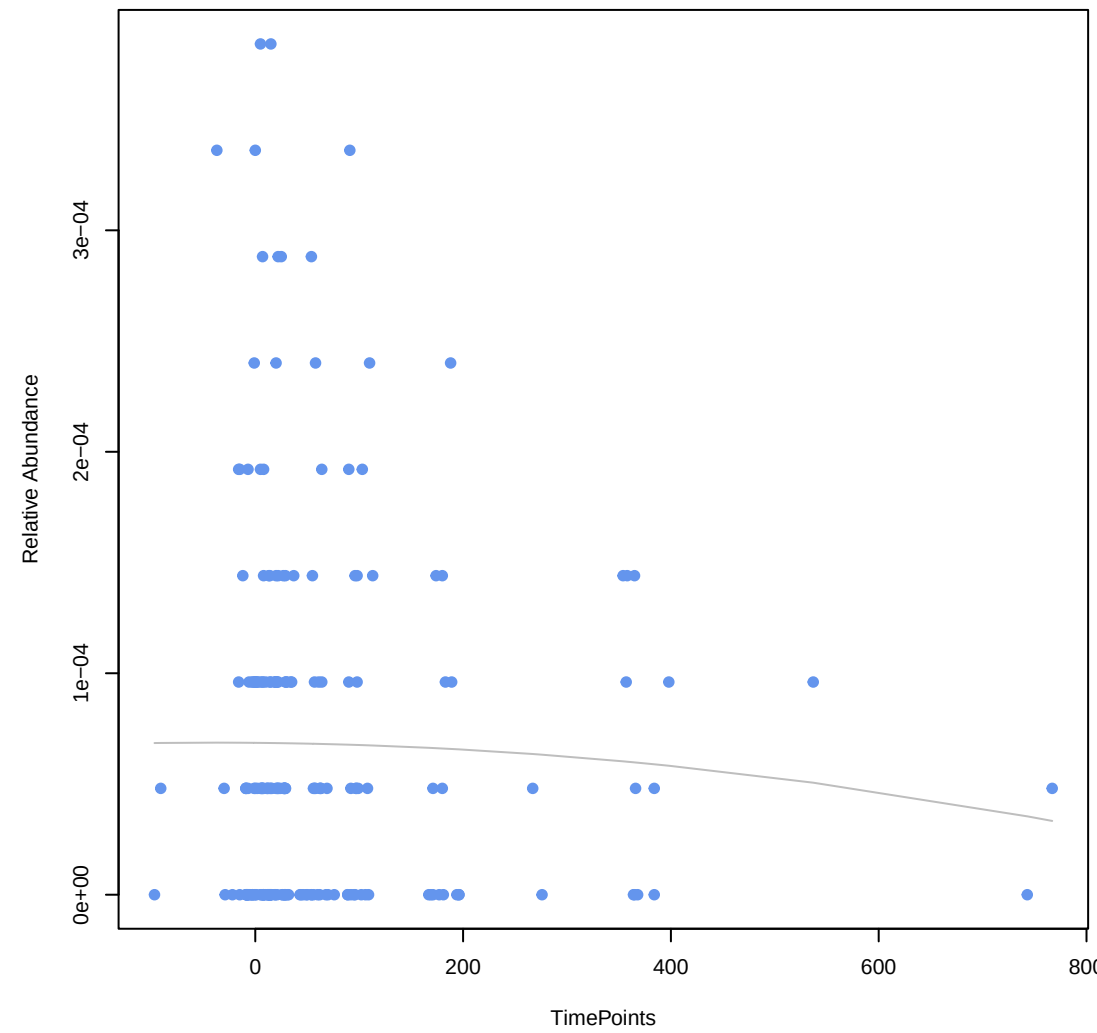

RGI
baeR
ANOVA Pval: 0.592
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints


RGI
mdtF
ANOVA Pval: 0.469
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0.00020
0.00025
0.00030
0
200
400
600
800
TimePoints

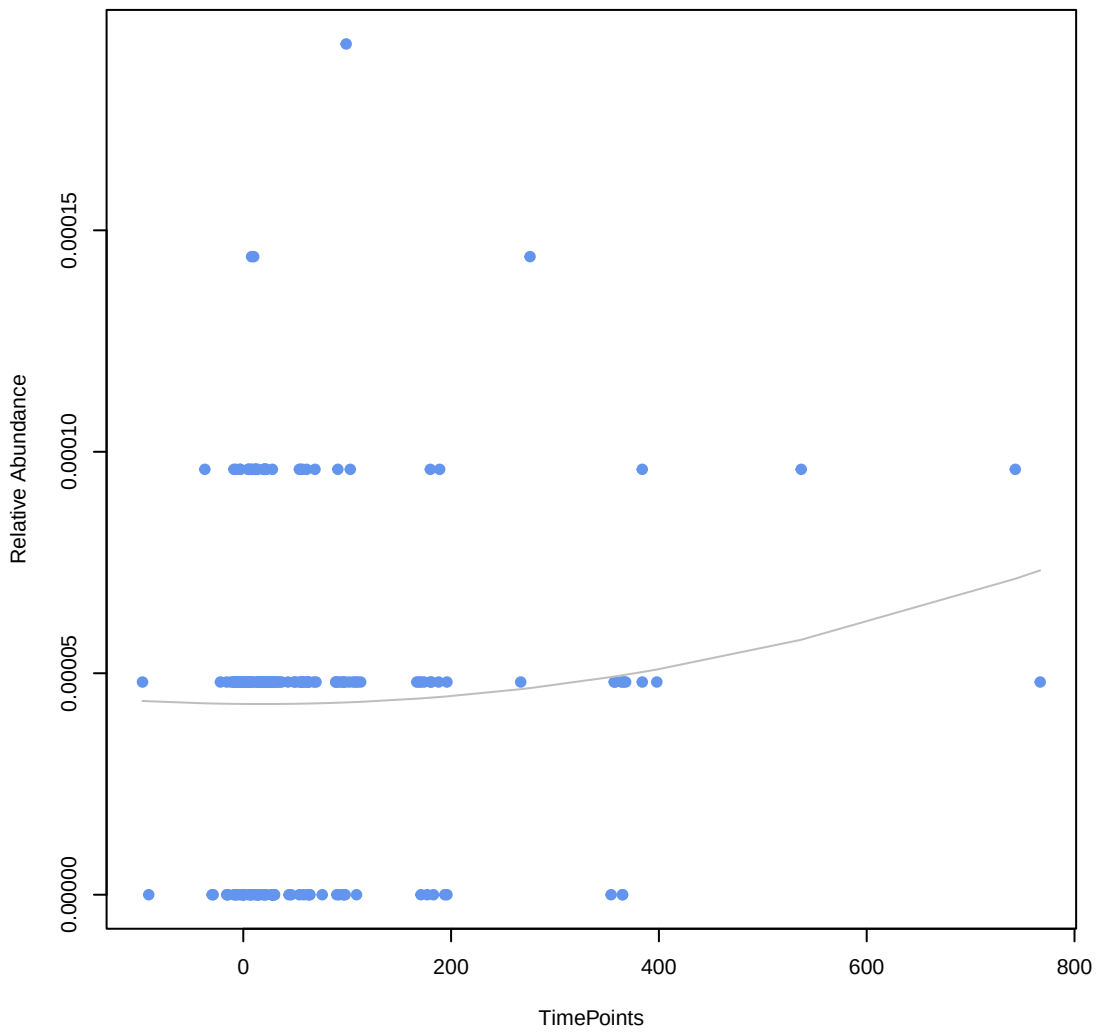
RGI
tet(W/N/W)
ANOVA Pval: 0.391



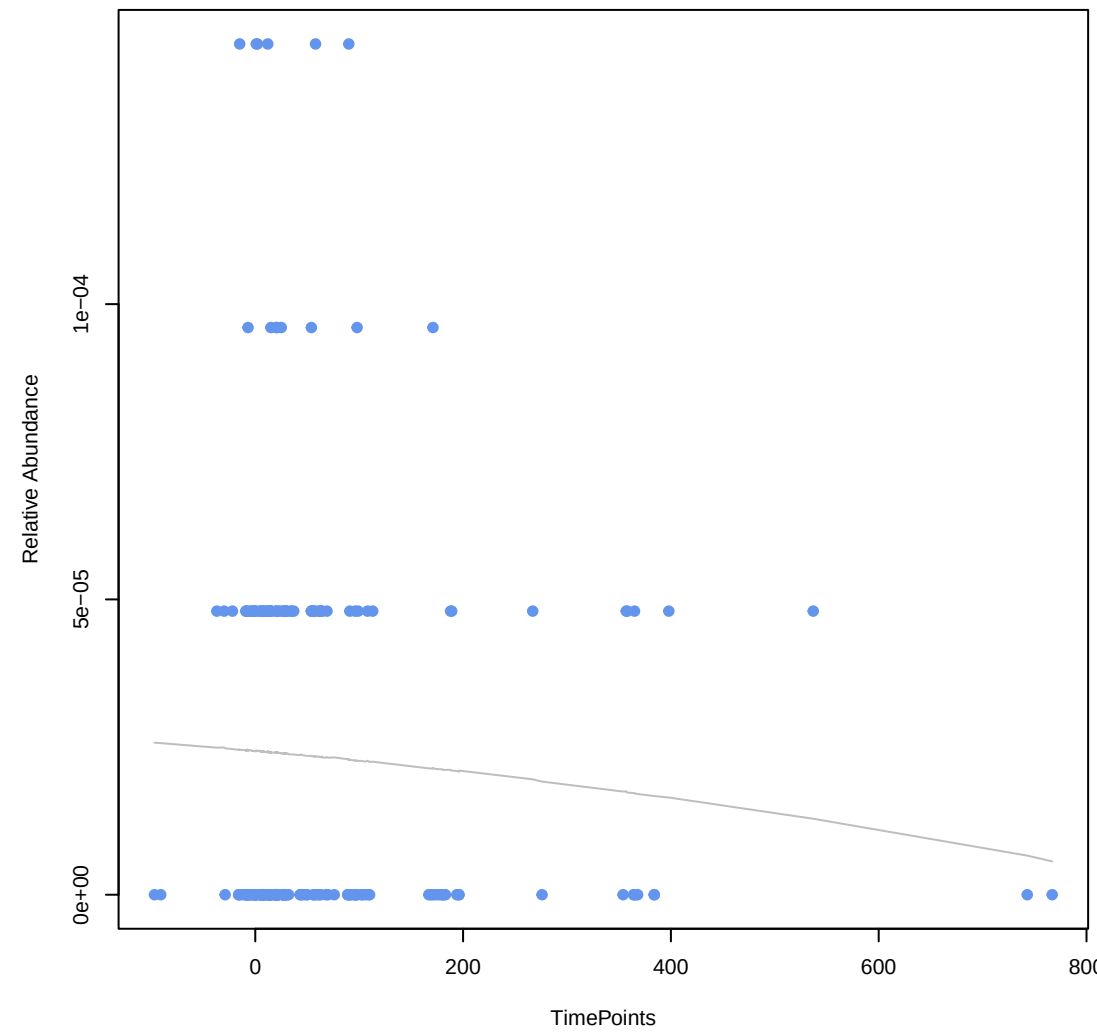

RGI
acrB
ANOVA Pval: 0.779



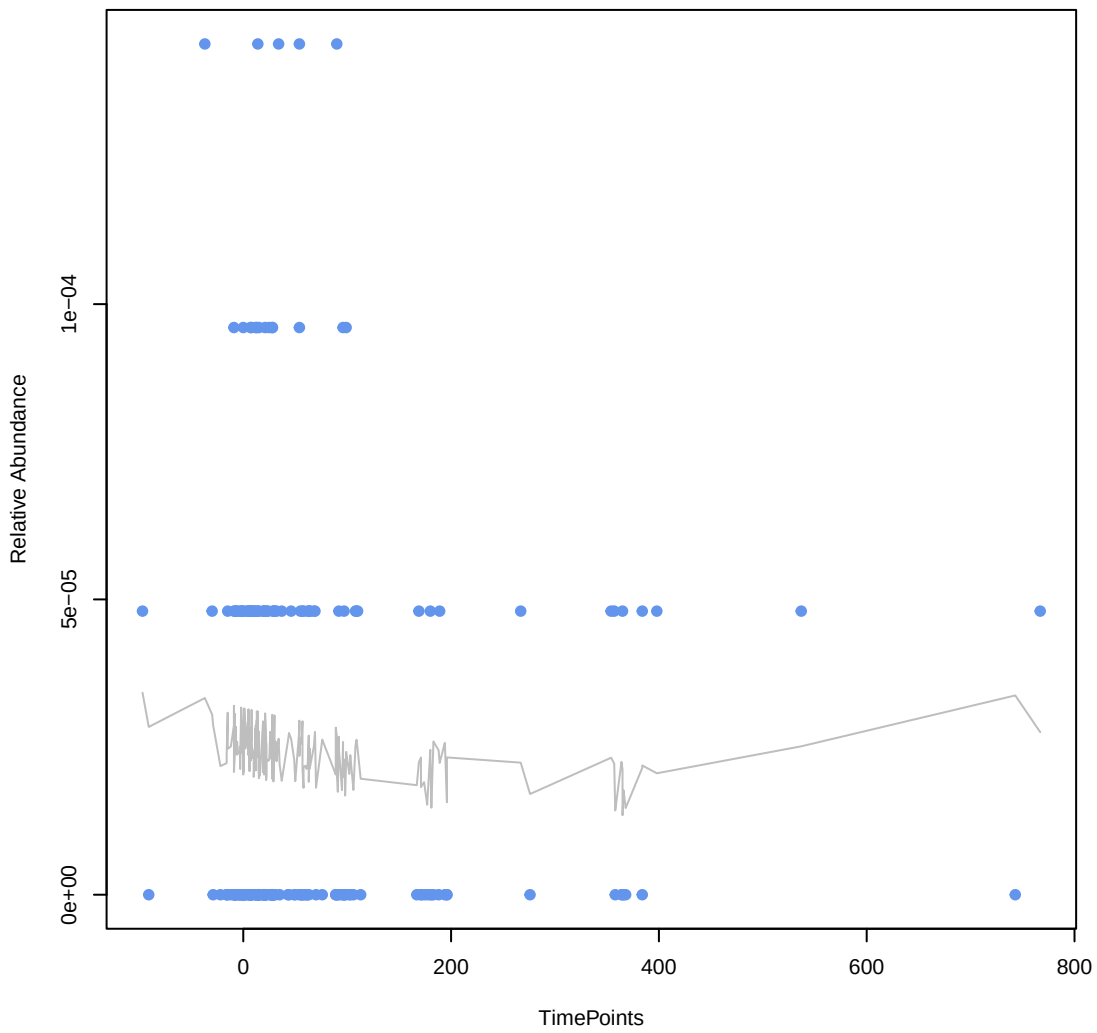

RGI
ErmF
ANOVA Pval: 0.4



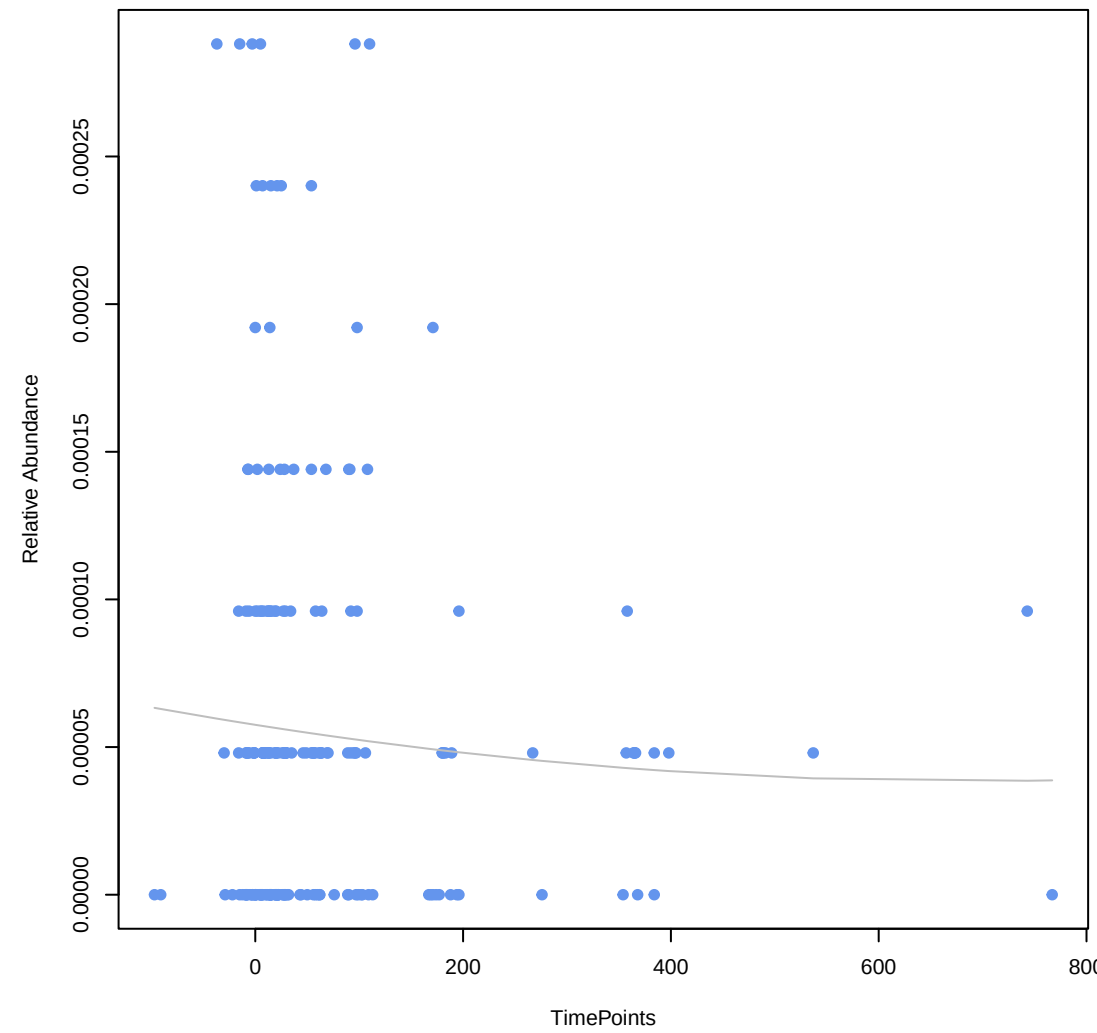

RGI
mdtA
ANOVA Pval: 0.557

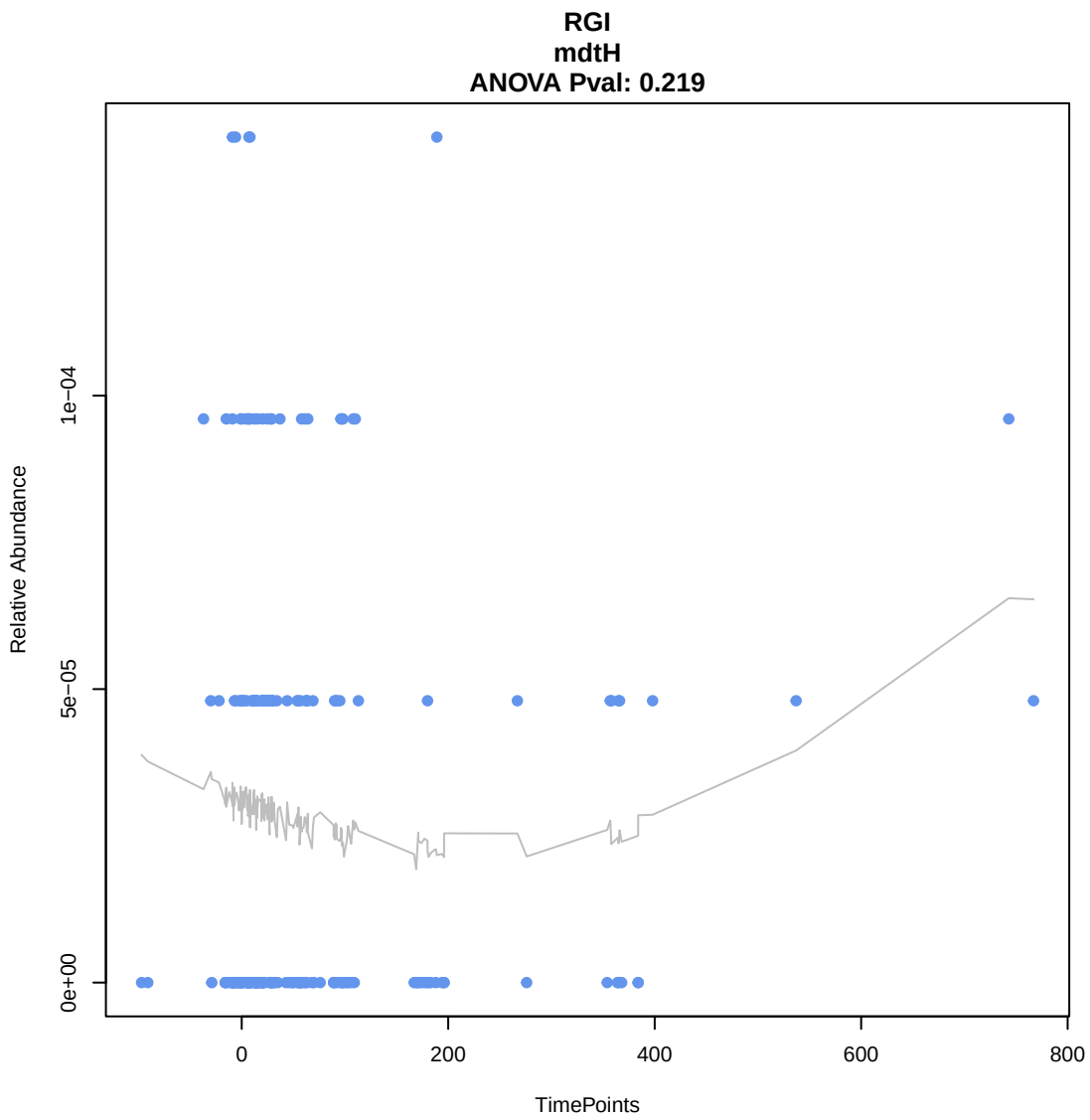


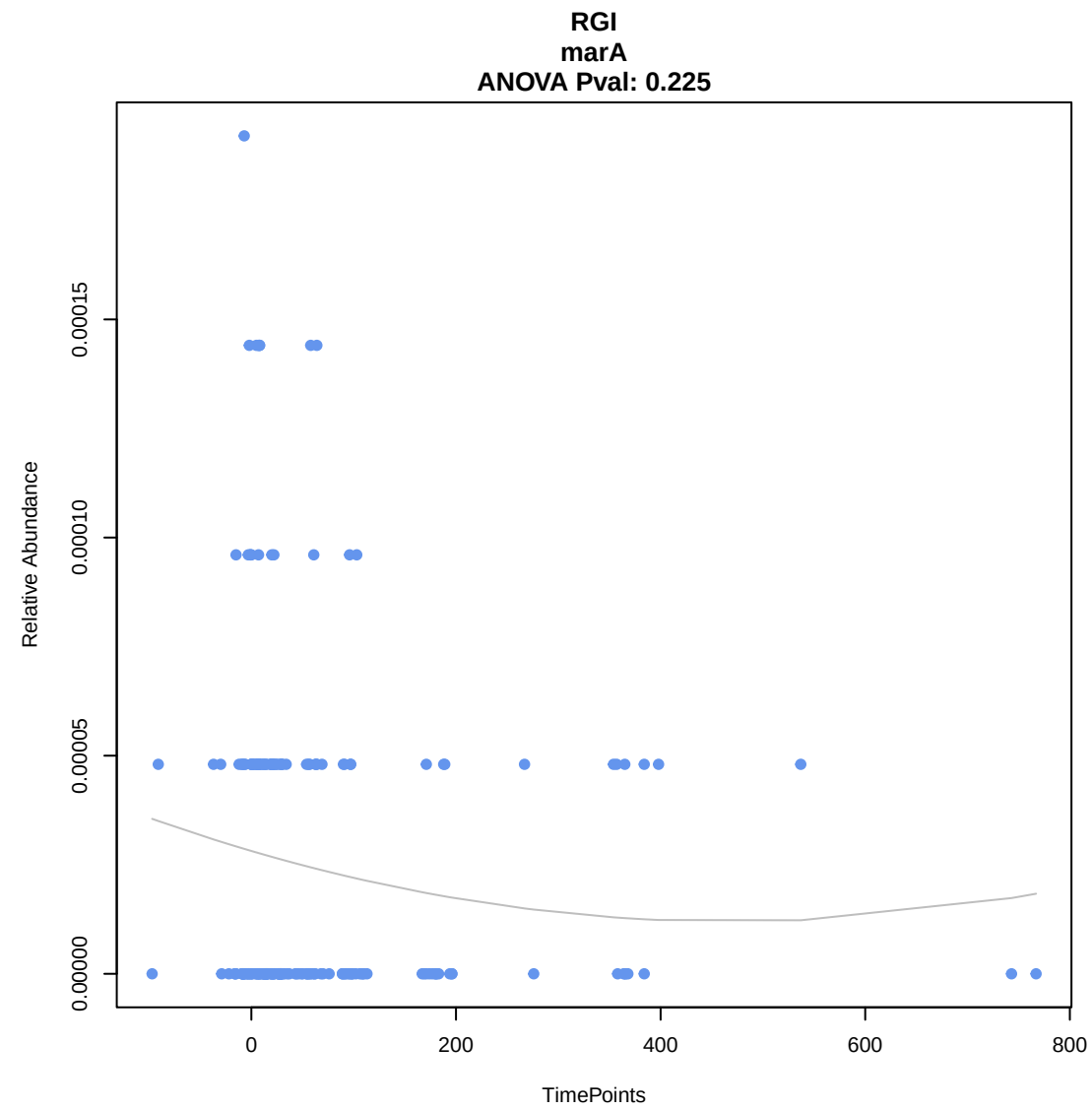

RGI
emrY
ANOVA Pval: 0.624

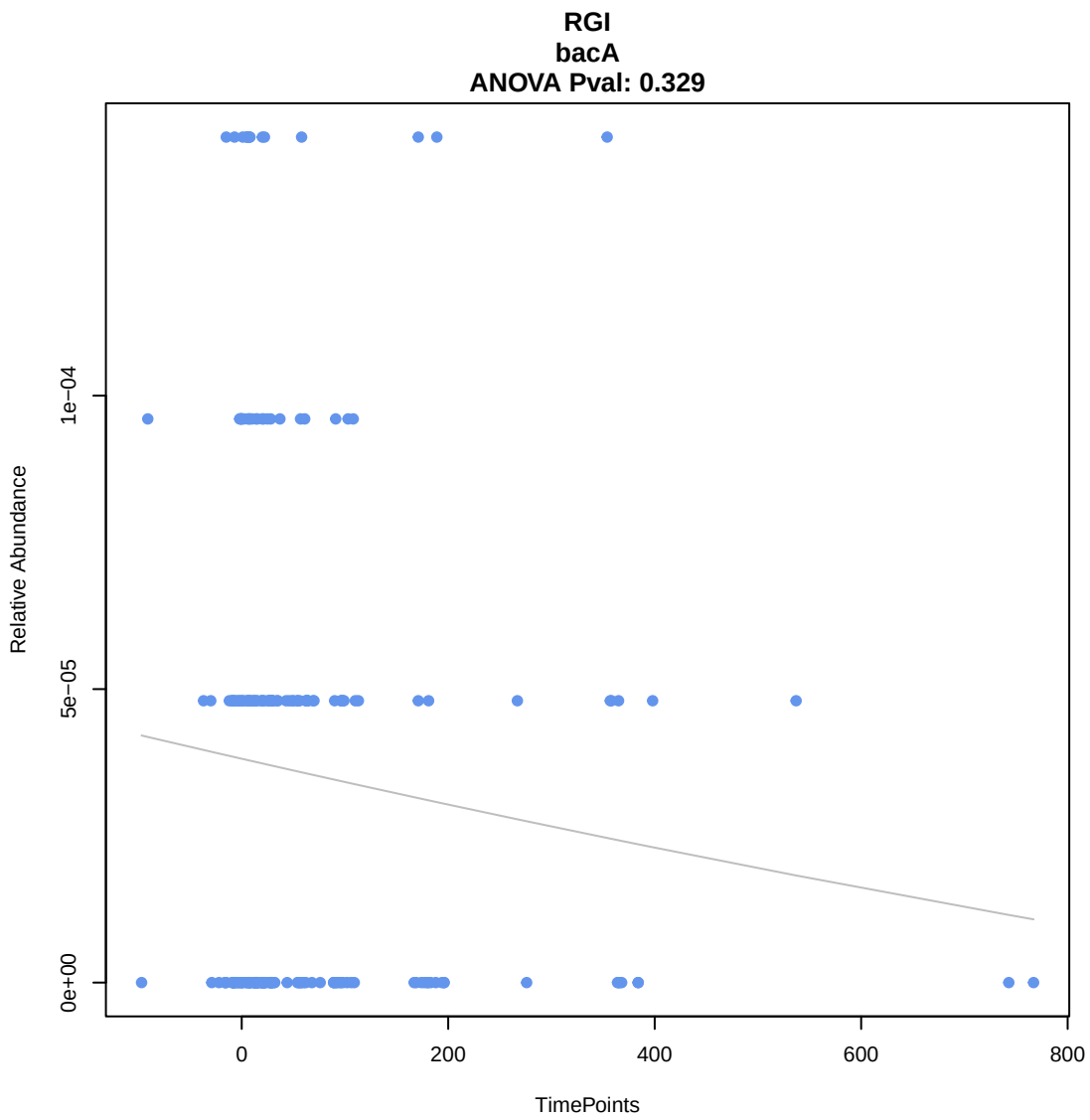


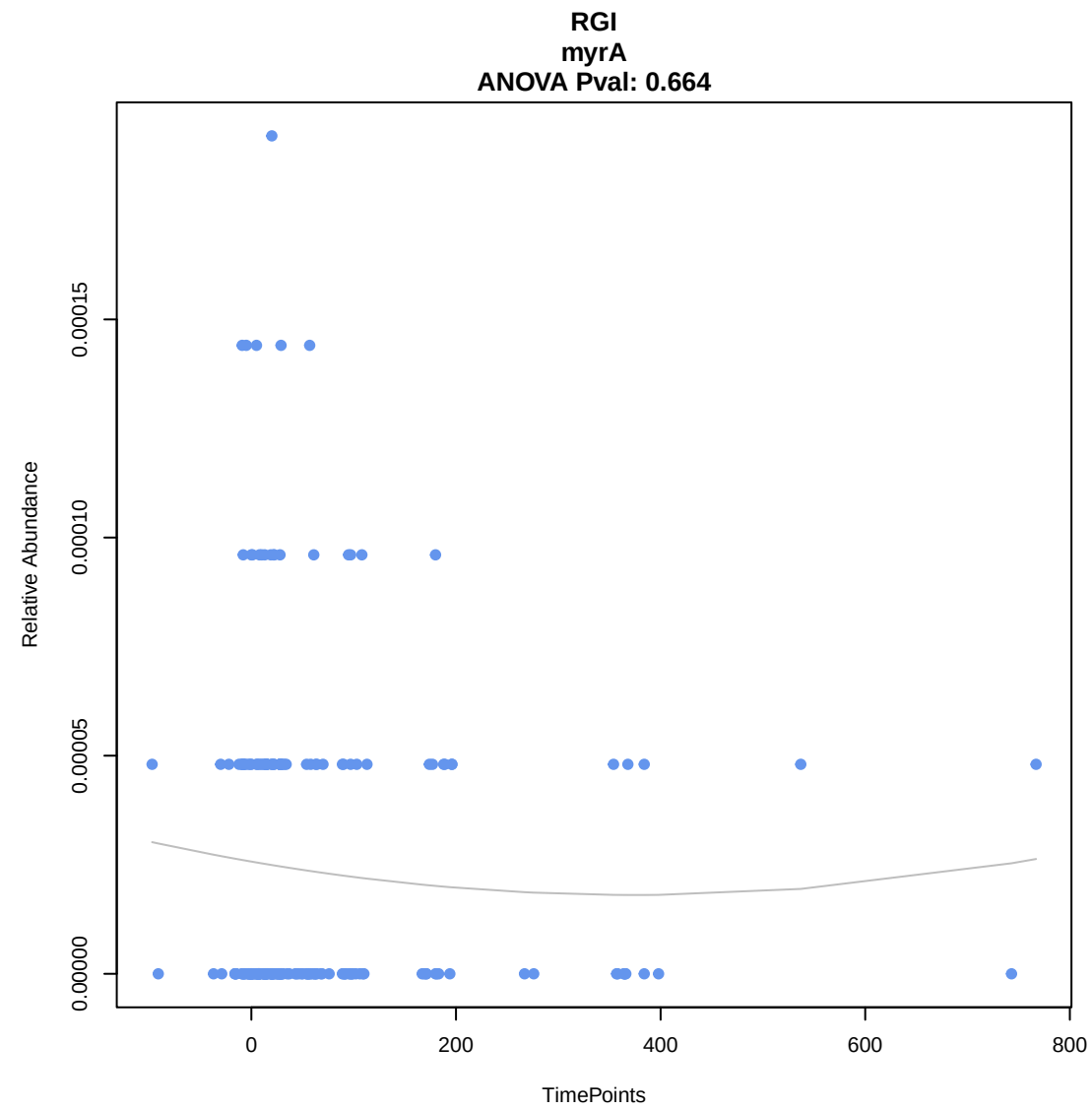

RGI
evgS
ANOVA Pval: 0.654

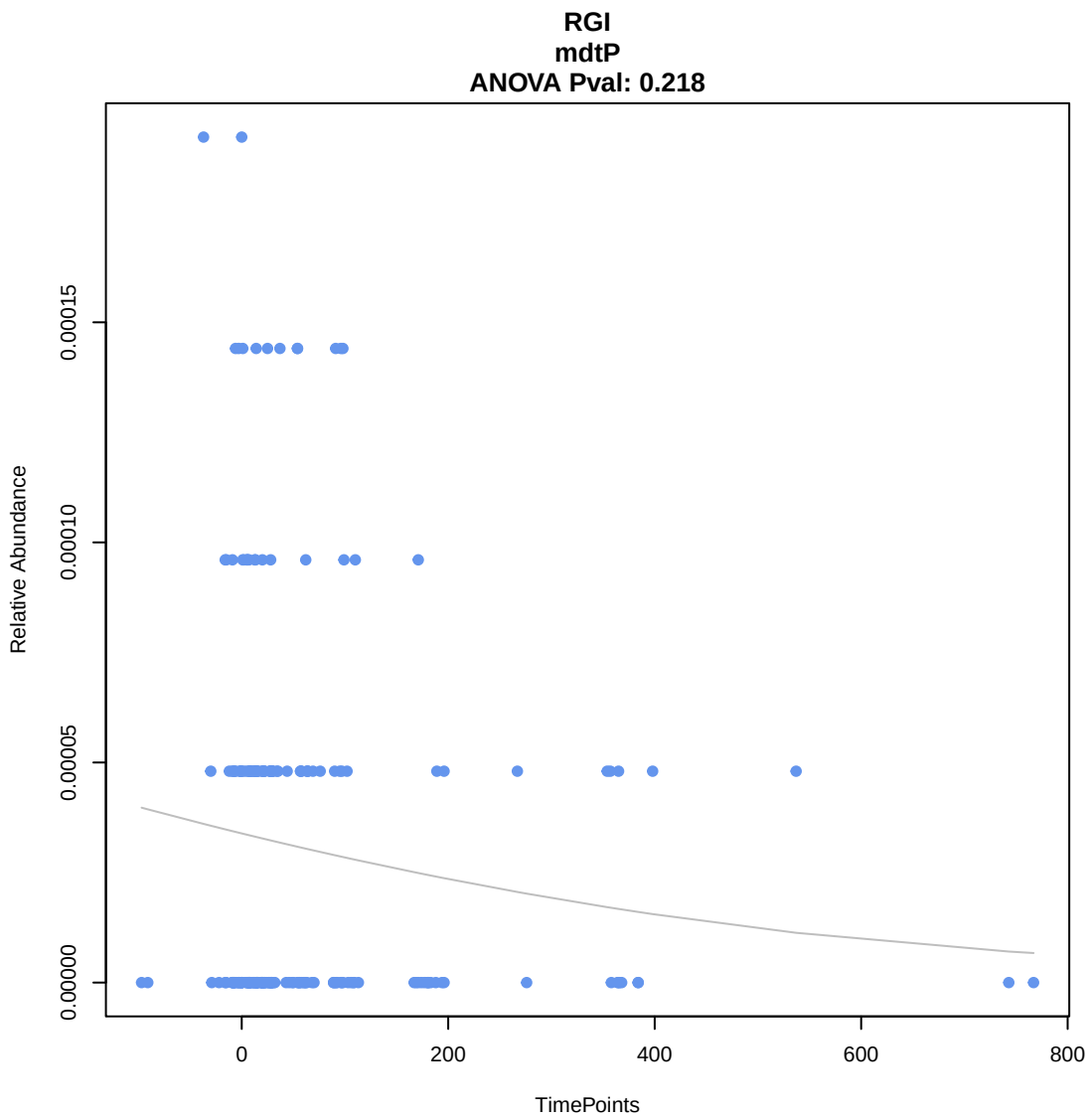


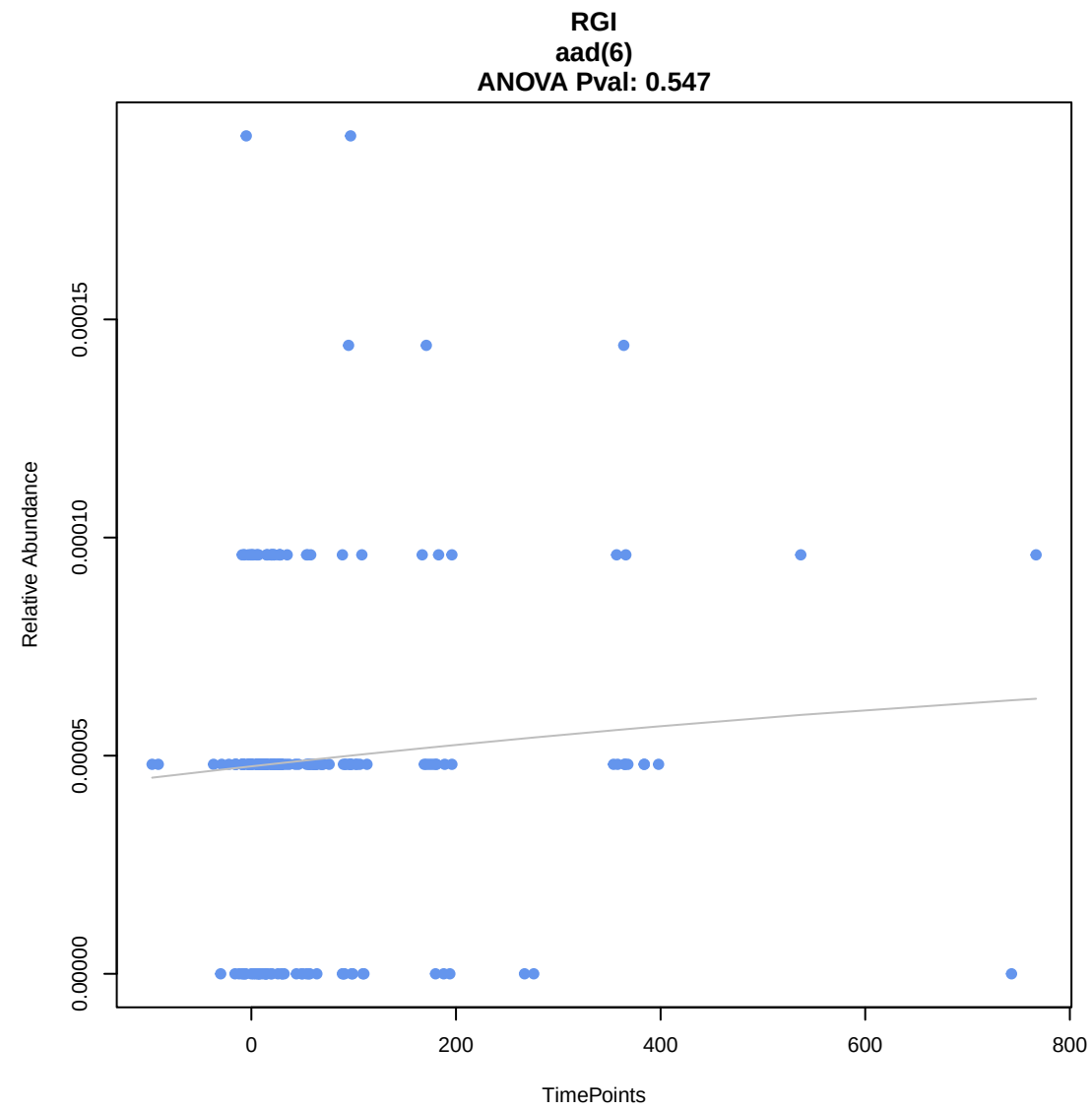

RGI
mdtH
ANOVA Pval: 0.219
Relative Abundance
0e+00
5e−05
1e−04
0
200
400
600
800
TimePoints


RGI
marA
ANOVA Pval: 0.225
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

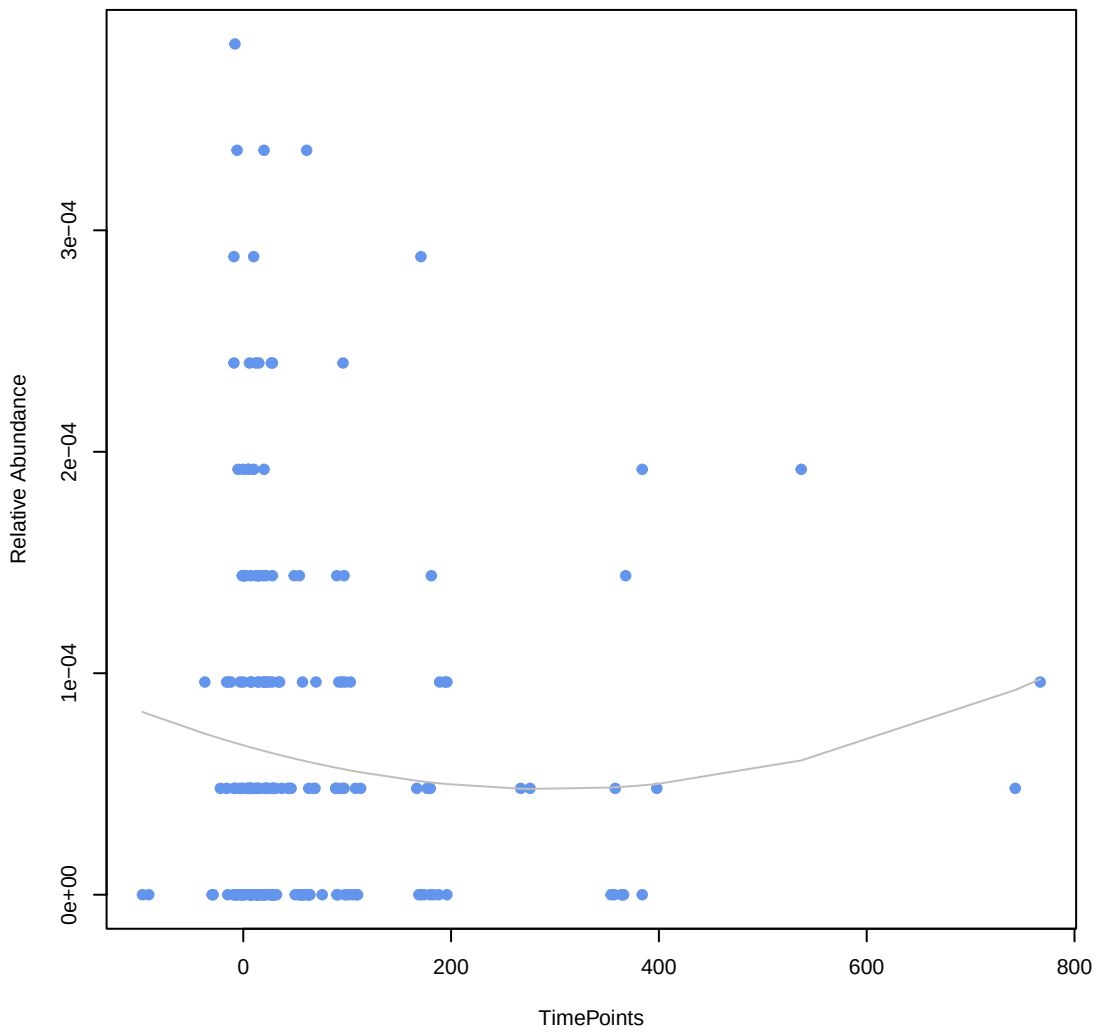

RGI
bacA
ANOVA Pval: 0.329
Relative Abundance
0e+00
5e−05
1e−04
0
200
400
600
800
TimePoints


RGI
myrA
ANOVA Pval: 0.664
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

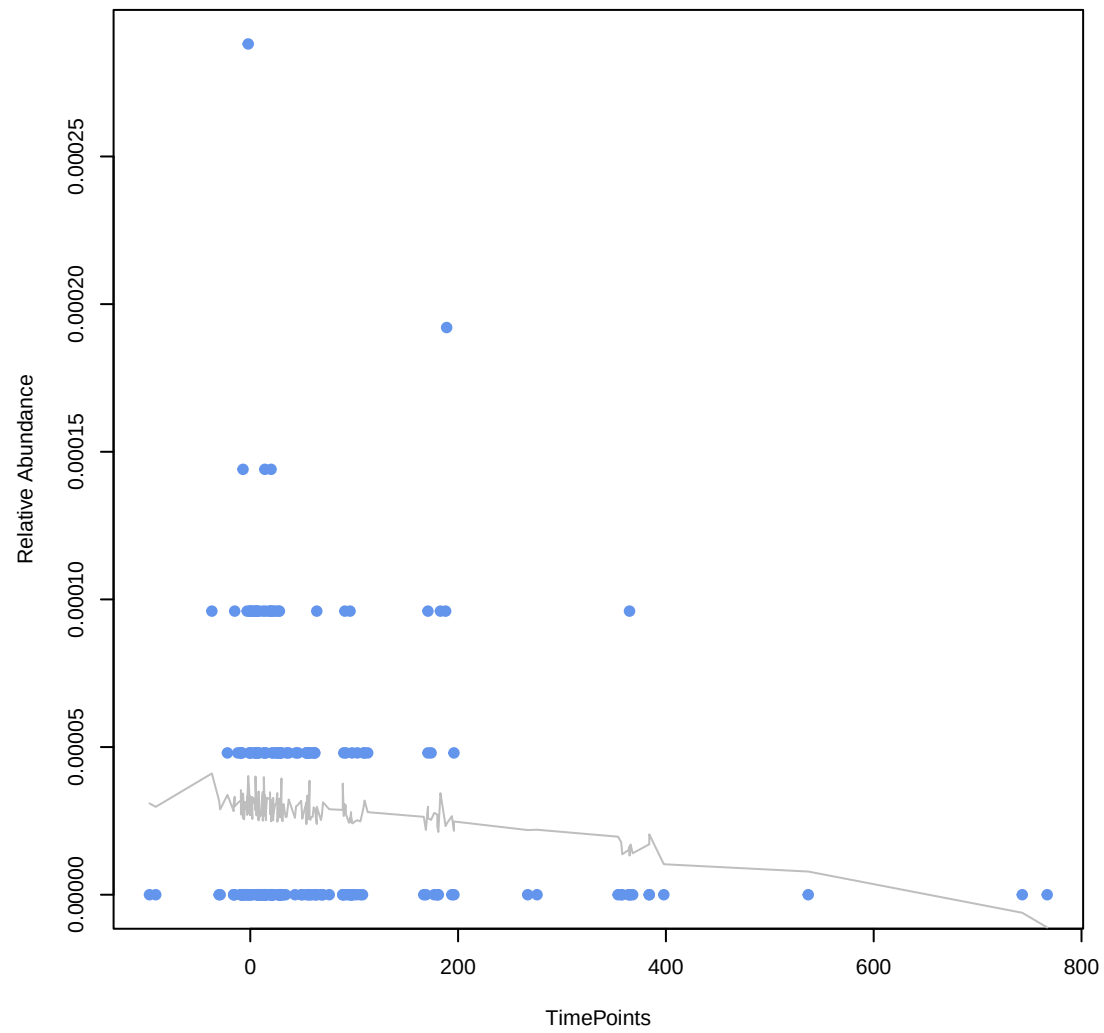

RGI
mdtP
ANOVA Pval: 0.218
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints


RGI
aad(6)
ANOVA Pval: 0.547
Relative Abundance
0.00000
0.00005
0.00010
0.00015
0
200
400
600
800
TimePoints

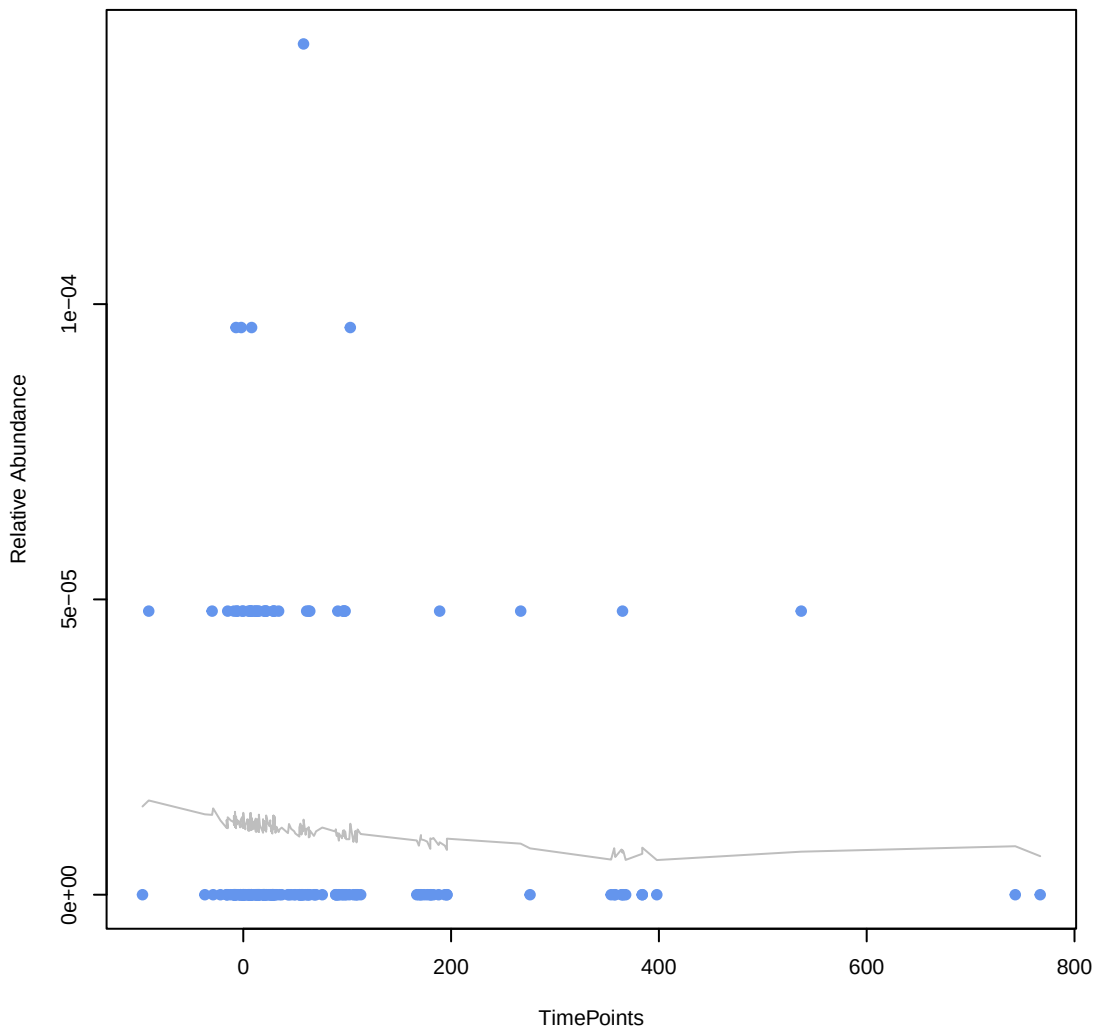
RGI
ANA−1
ANOVA Pval: 0.441



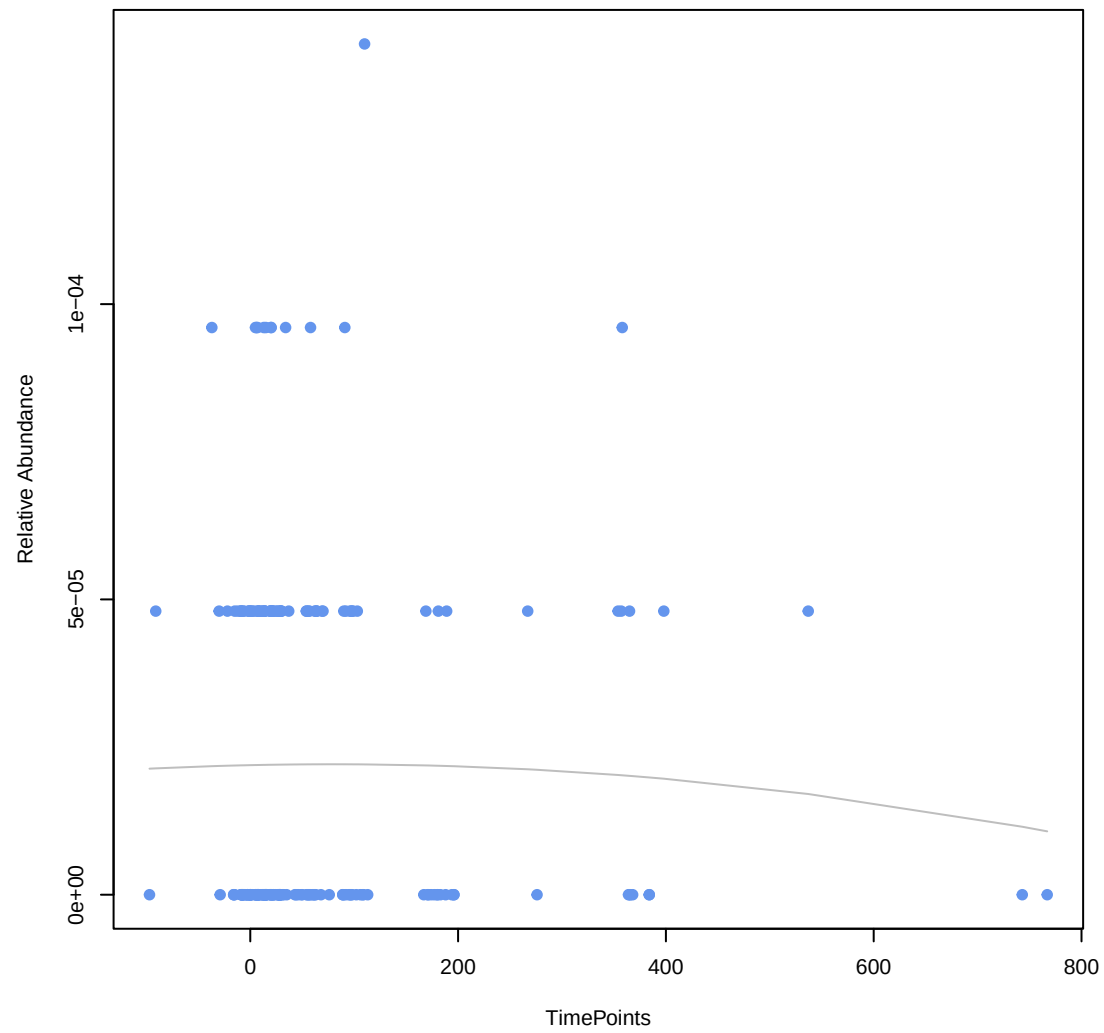

RGI
Klebsiella pneumoniae KpnH
ANOVA Pval: 0.232




RGI
Escherichia coli GlpT with mutation conferring resistance to fosfomycin
ANOVA Pval: 0.67




RGI
Escherichia coli soxR with mutation conferring antibiotic resistance
ANOVA Pval: 0.851




RGI
Escherichia coli soxS with mutation conferring antibiotic resistance
ANOVA Pval: 0.693