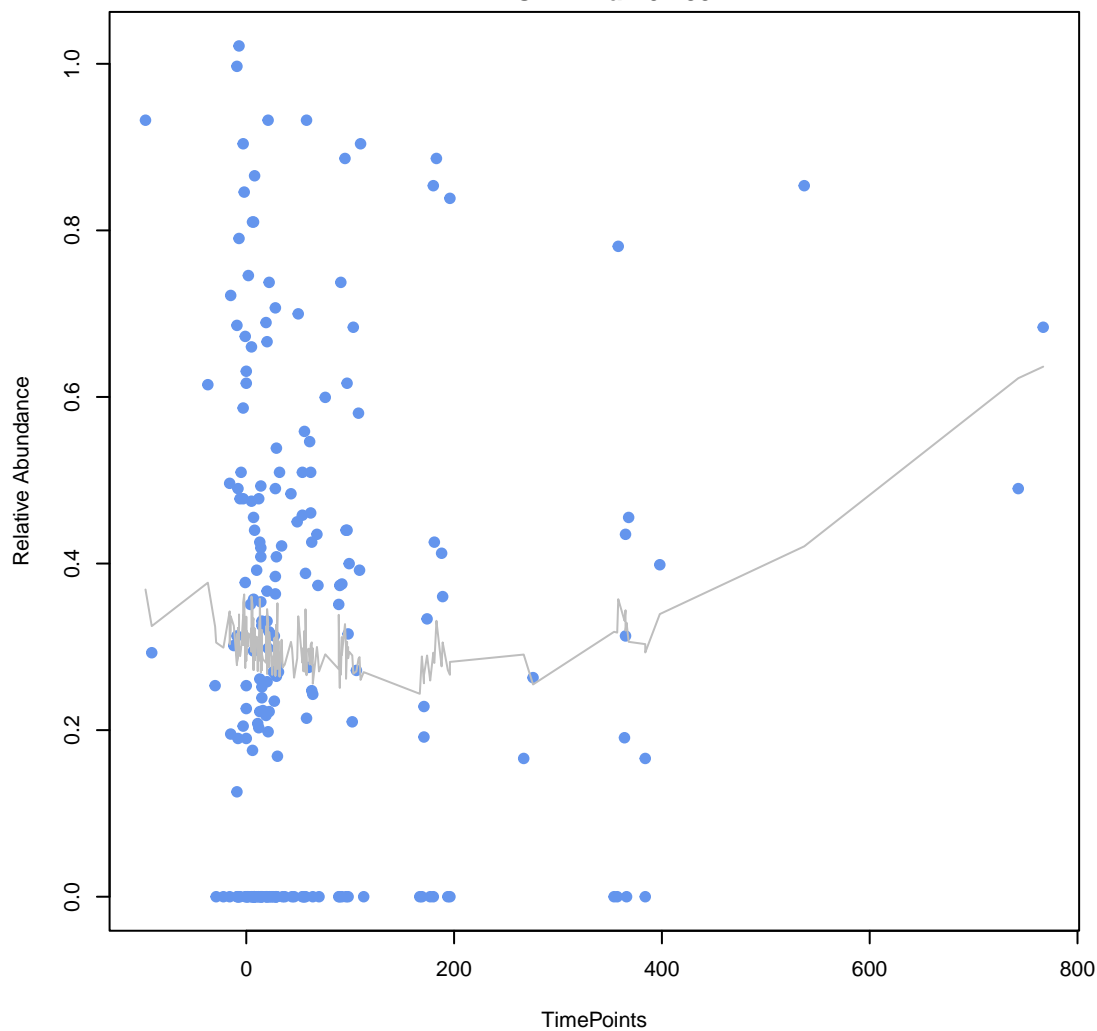
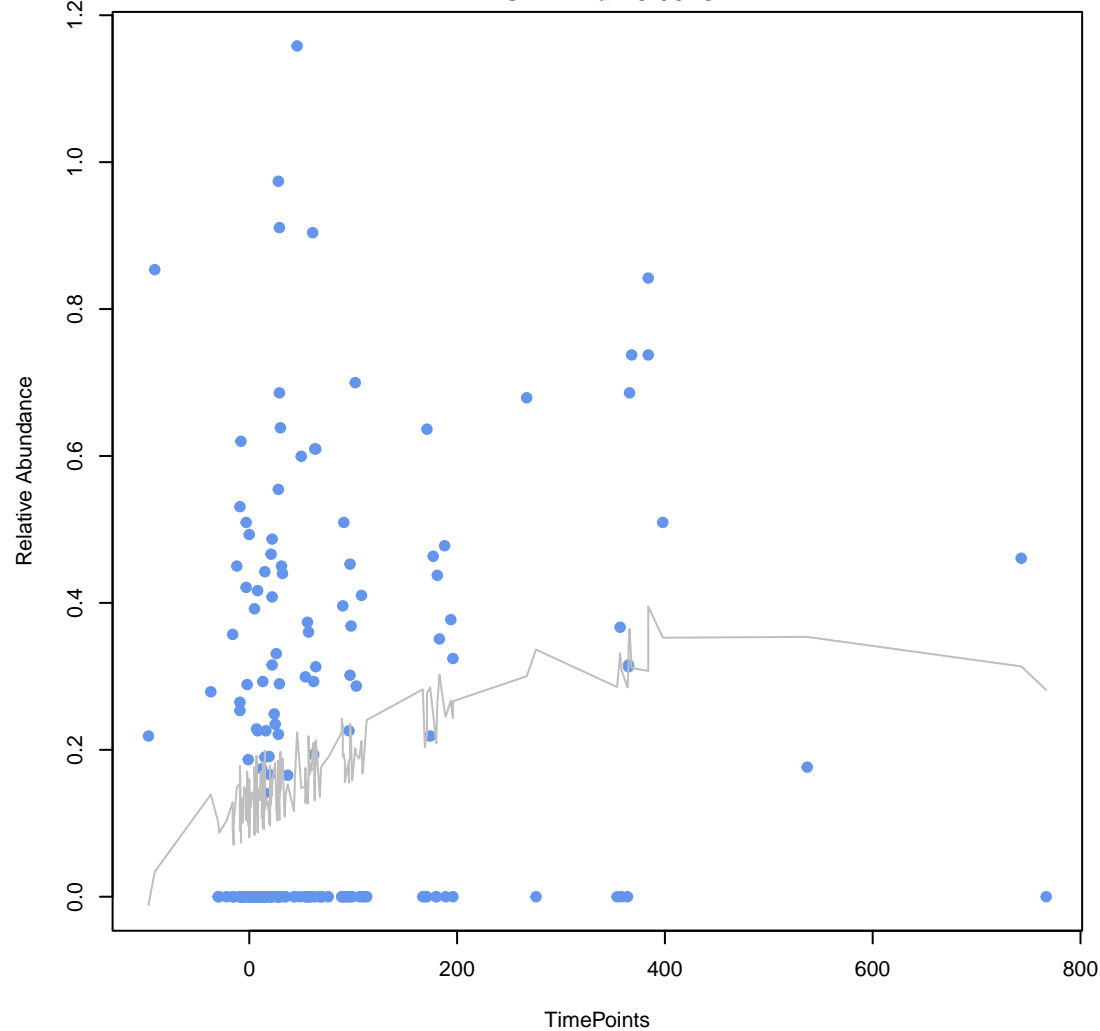


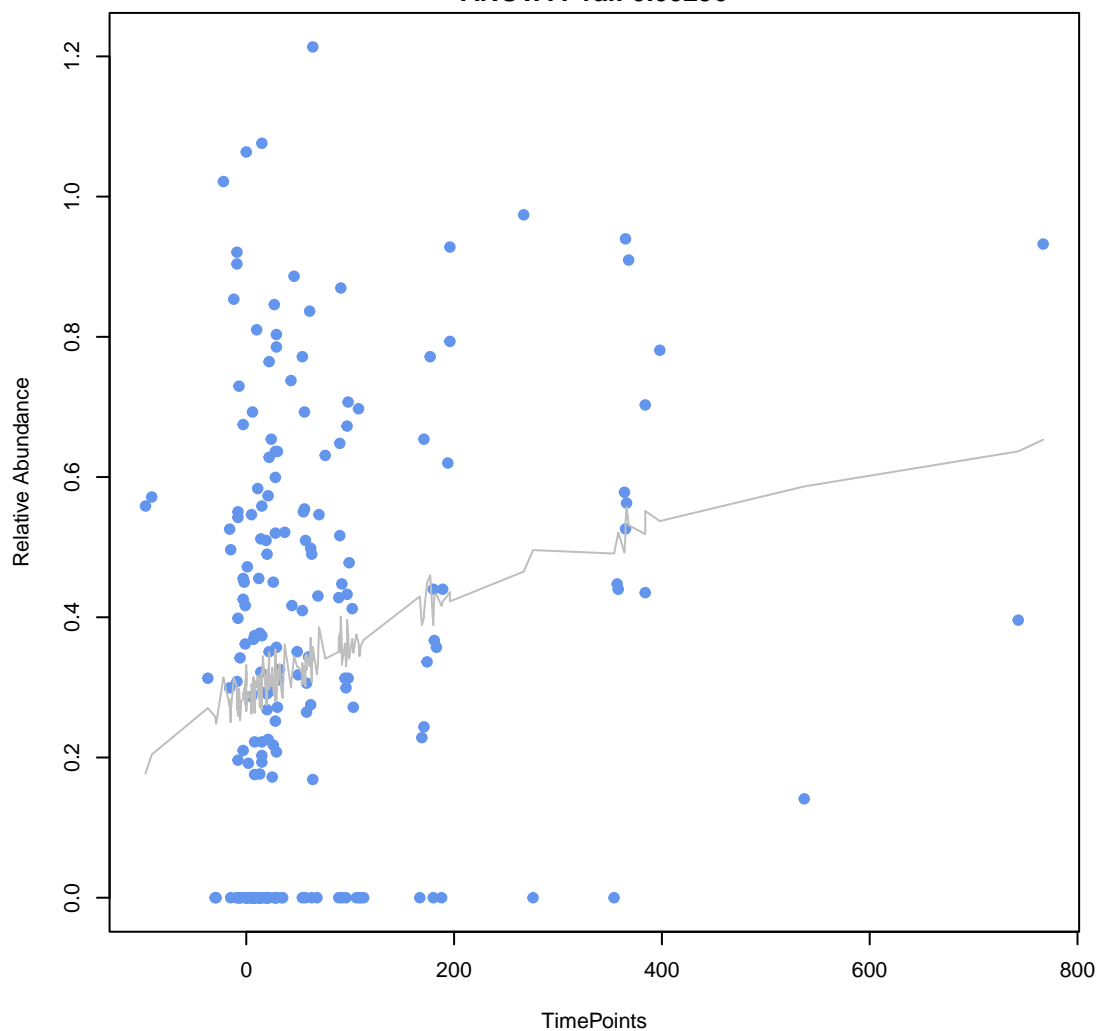
**RGI**  
**efrB**  
**ANOVA Pval: 0.185**



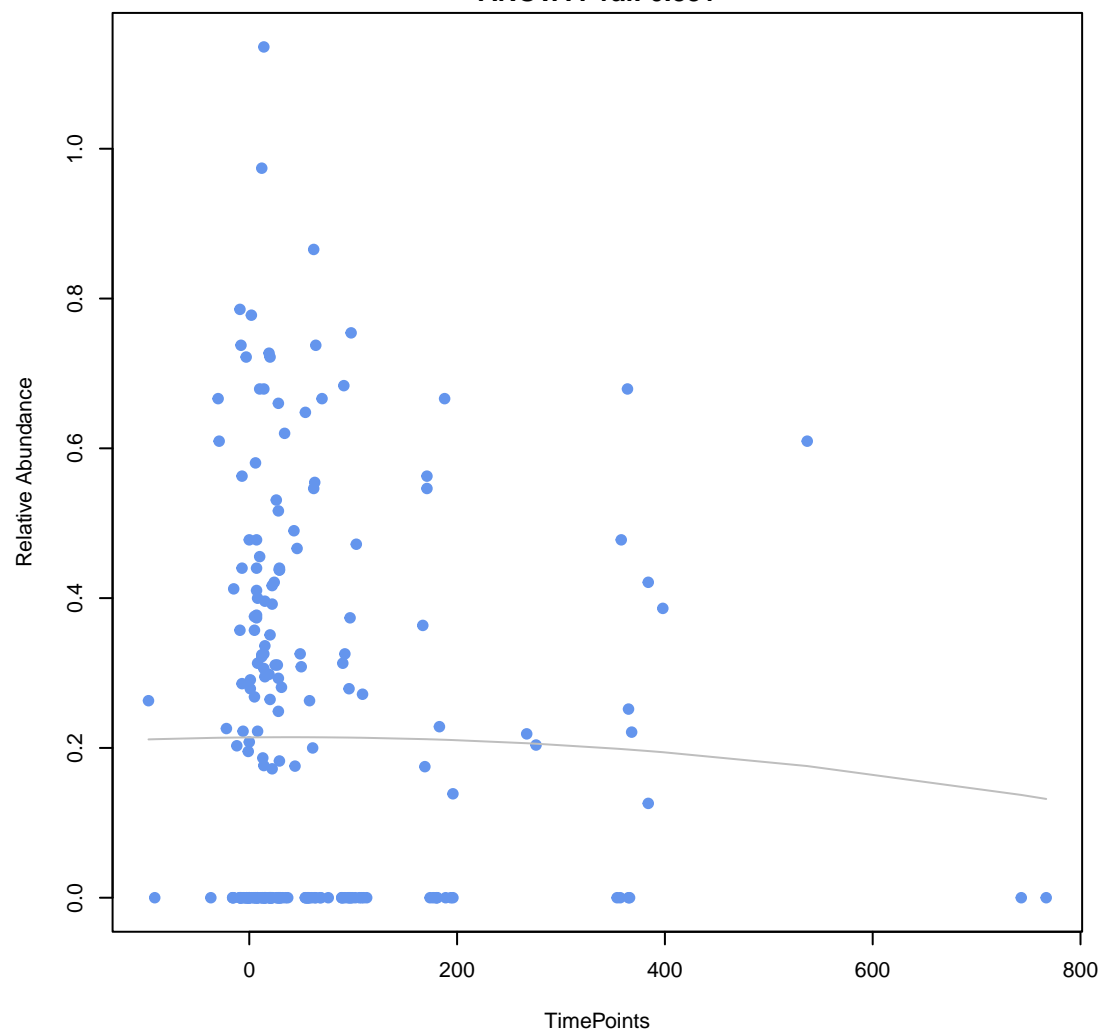
**RGI**  
**scherichia coli AcrAB–TolC with MarR mutations conferring resistance to ciprofloxacin and**  
**ANOVA Pval: 0.00181**



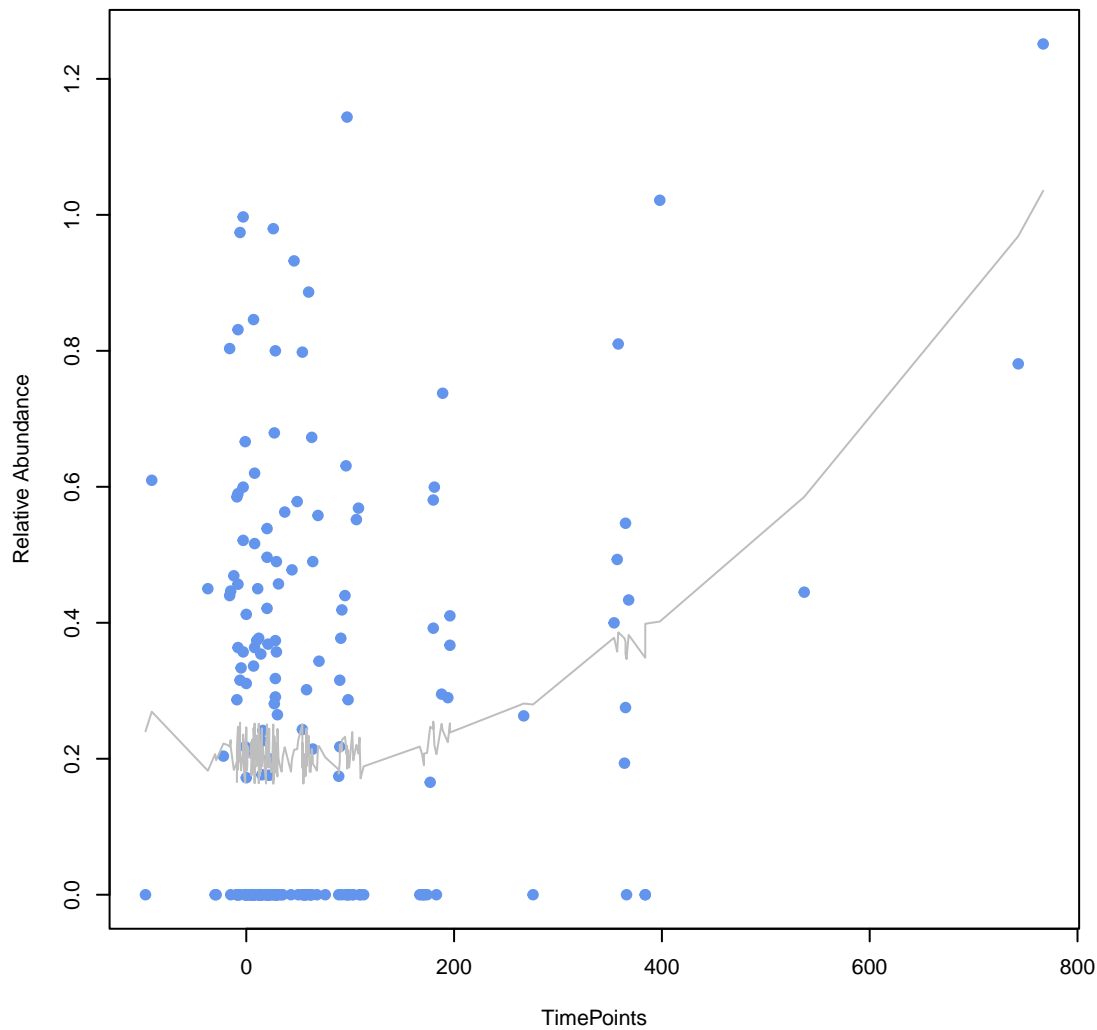
**RGI**  
**mdtB**  
**ANOVA Pval: 0.00296**



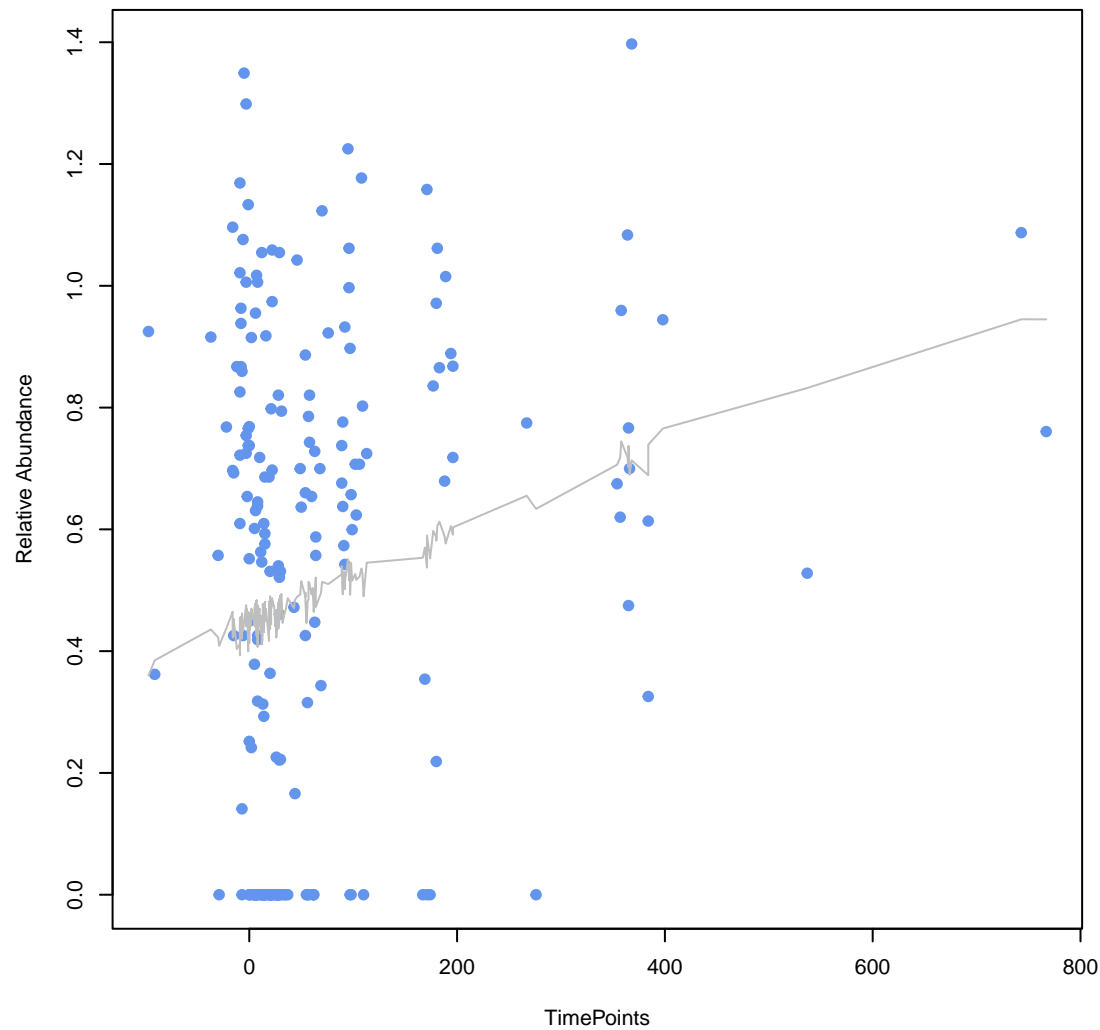
**RGI**  
**msrC**  
**ANOVA Pval: 0.881**

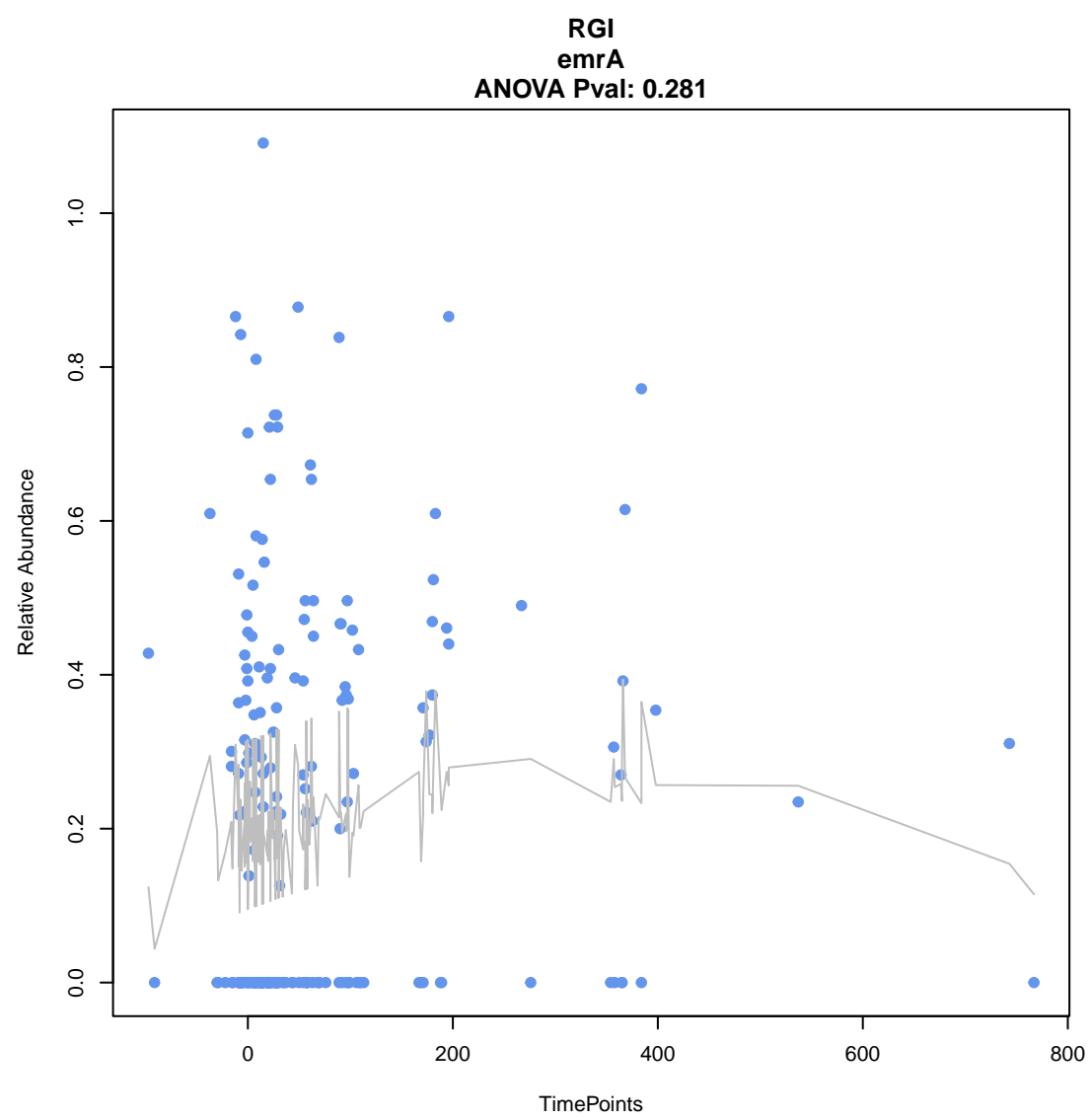
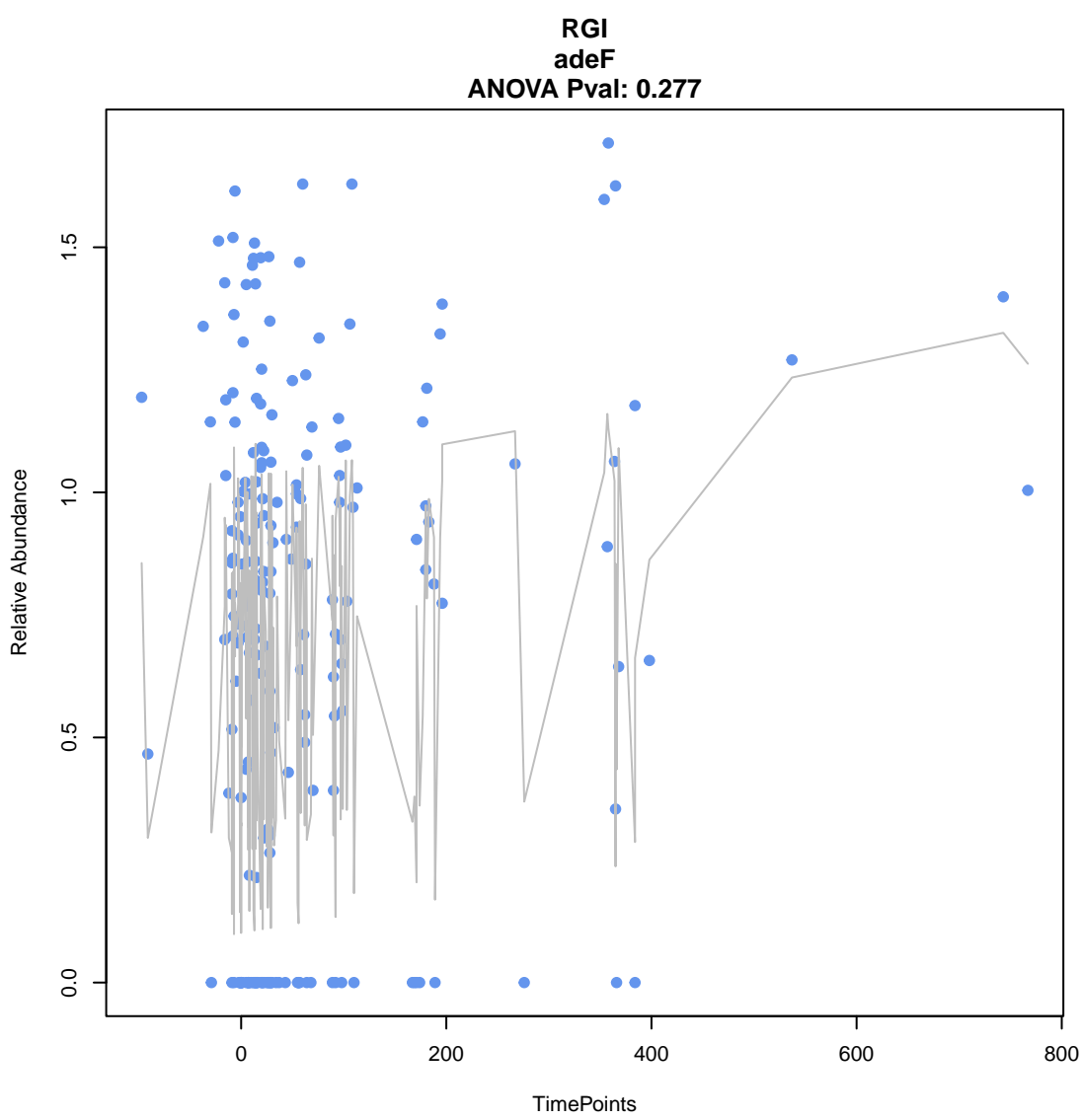
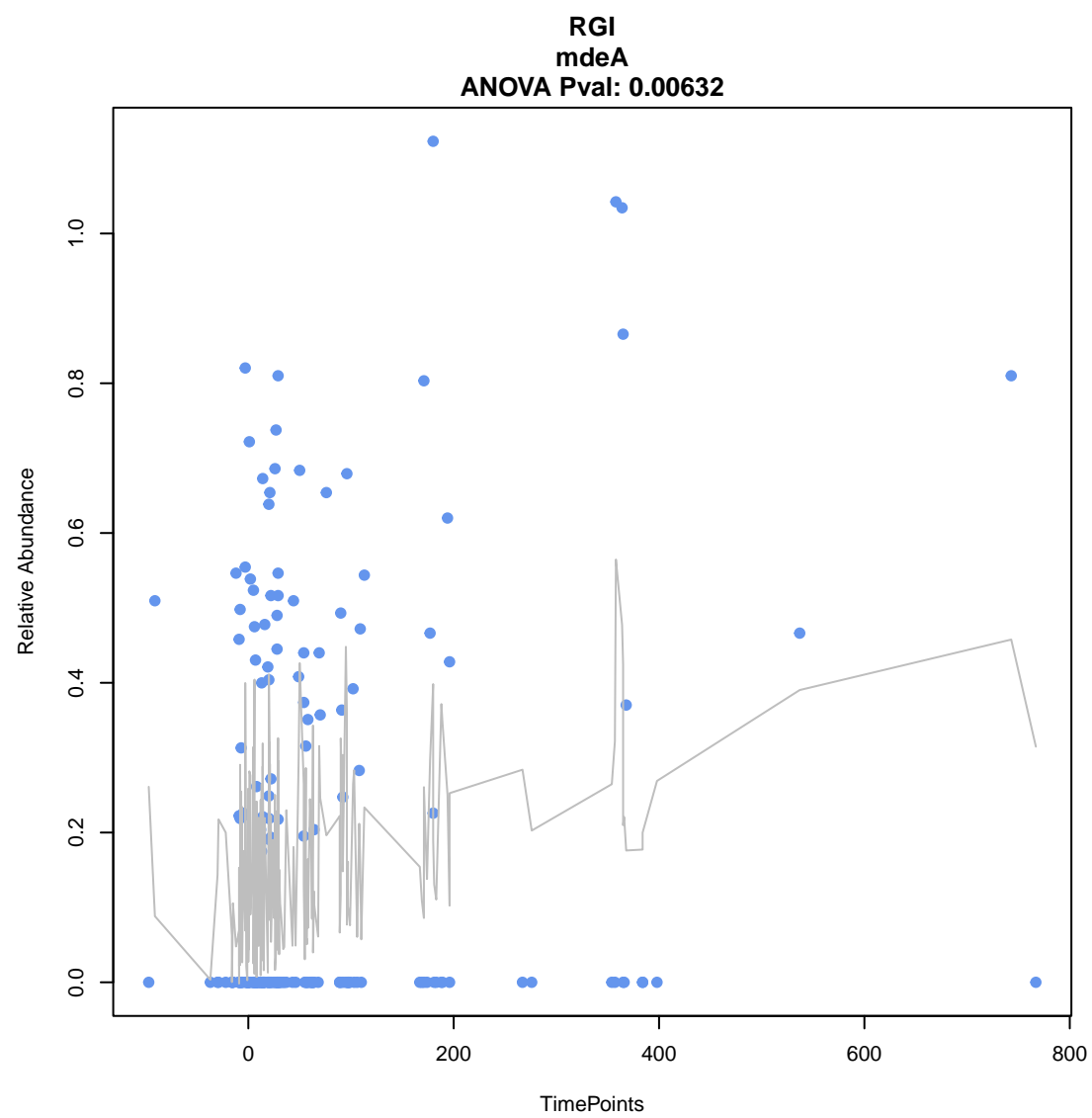
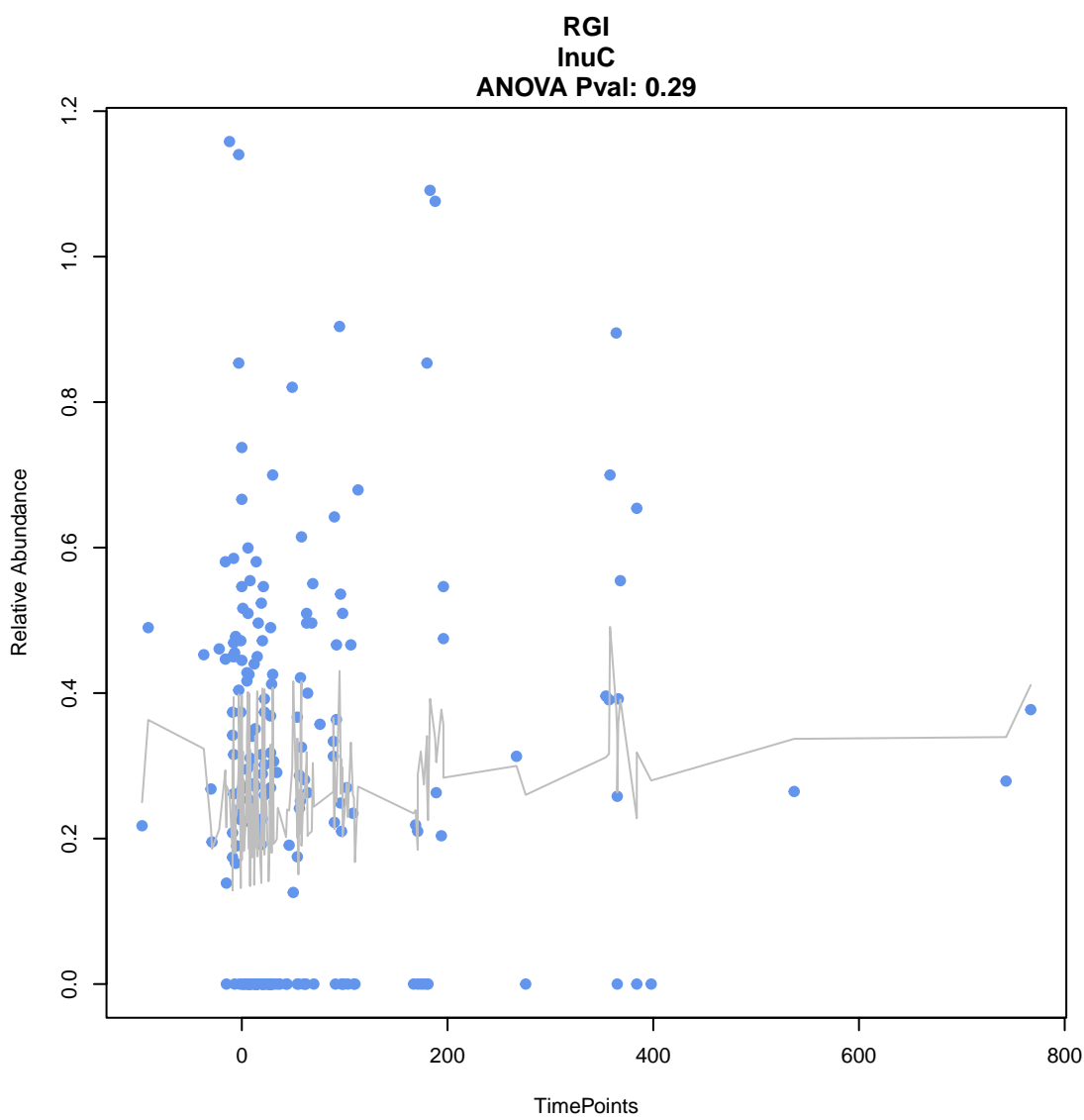
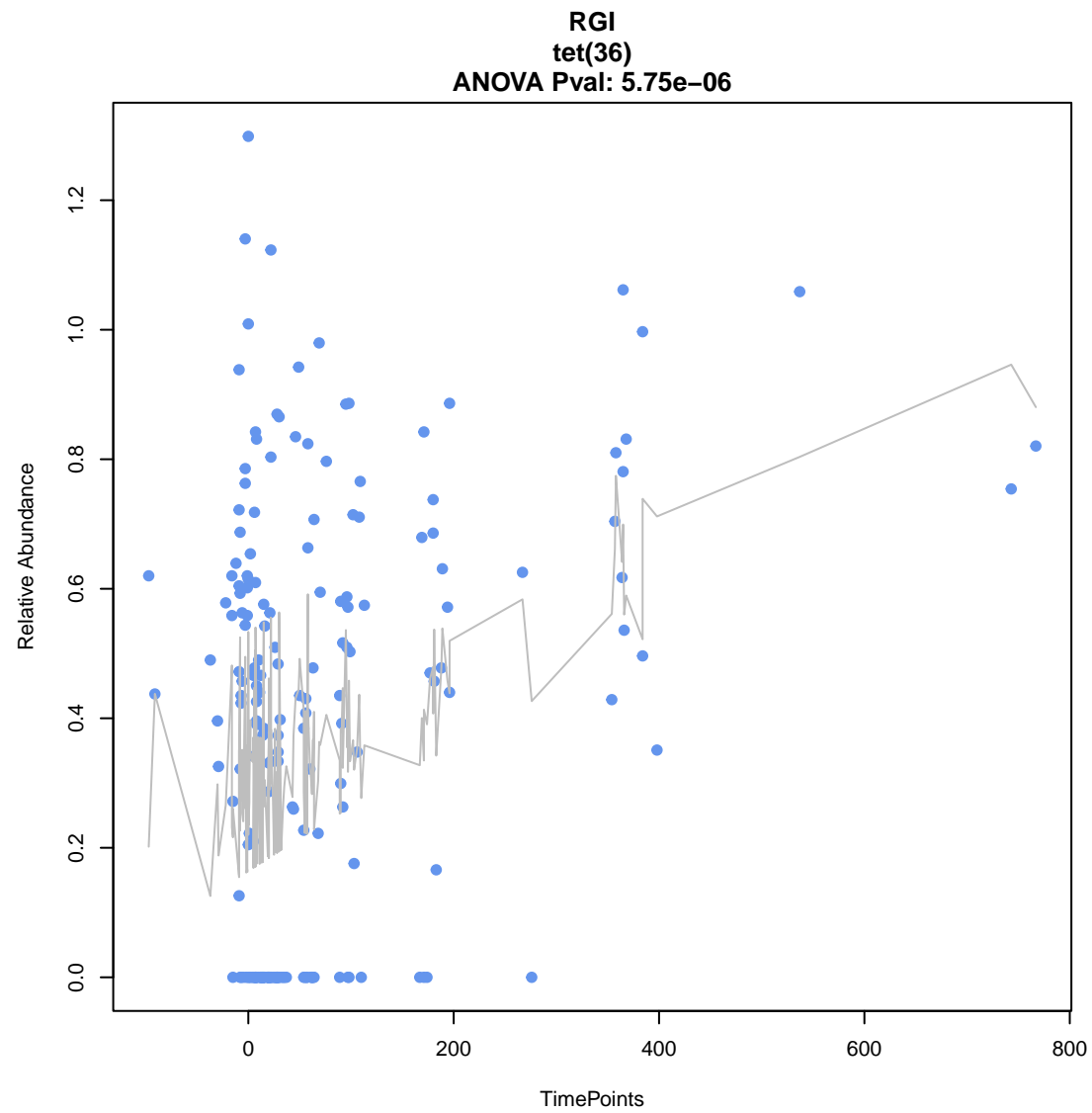
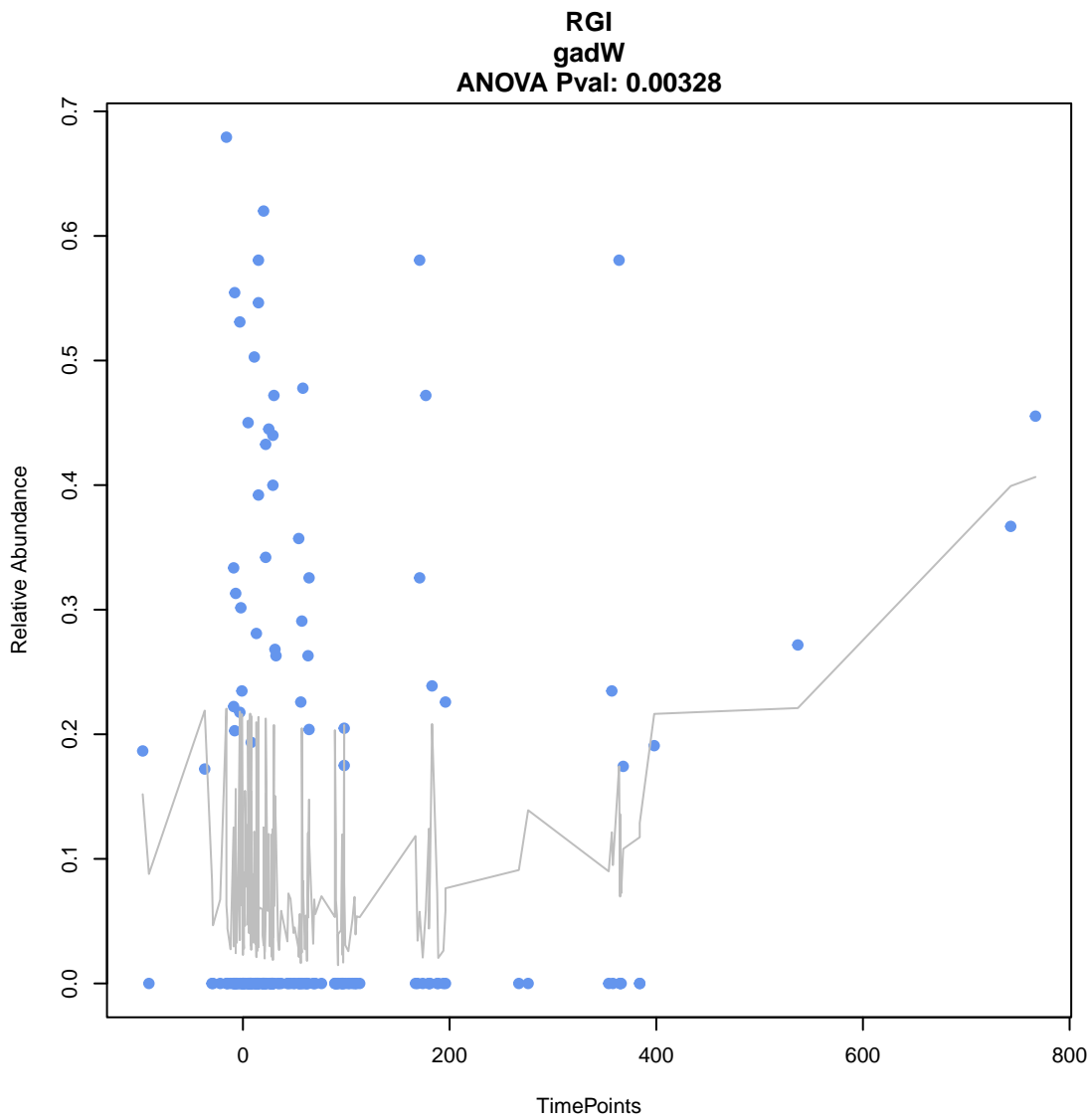


**RGI**  
**tet(44)**  
**ANOVA Pval: 3.66e-05**

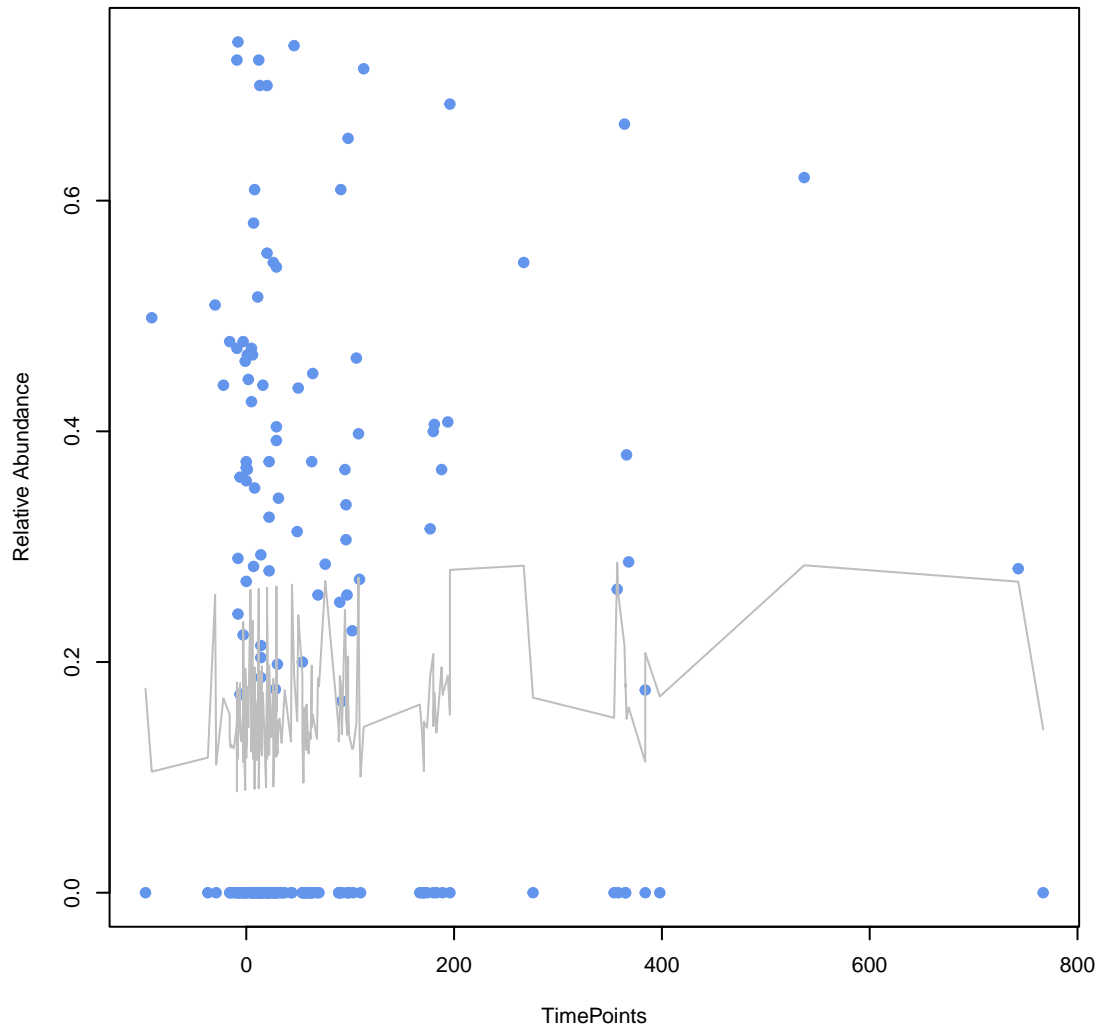


**RGI**  
**tet(T)**  
**ANOVA Pval: 0.0066**

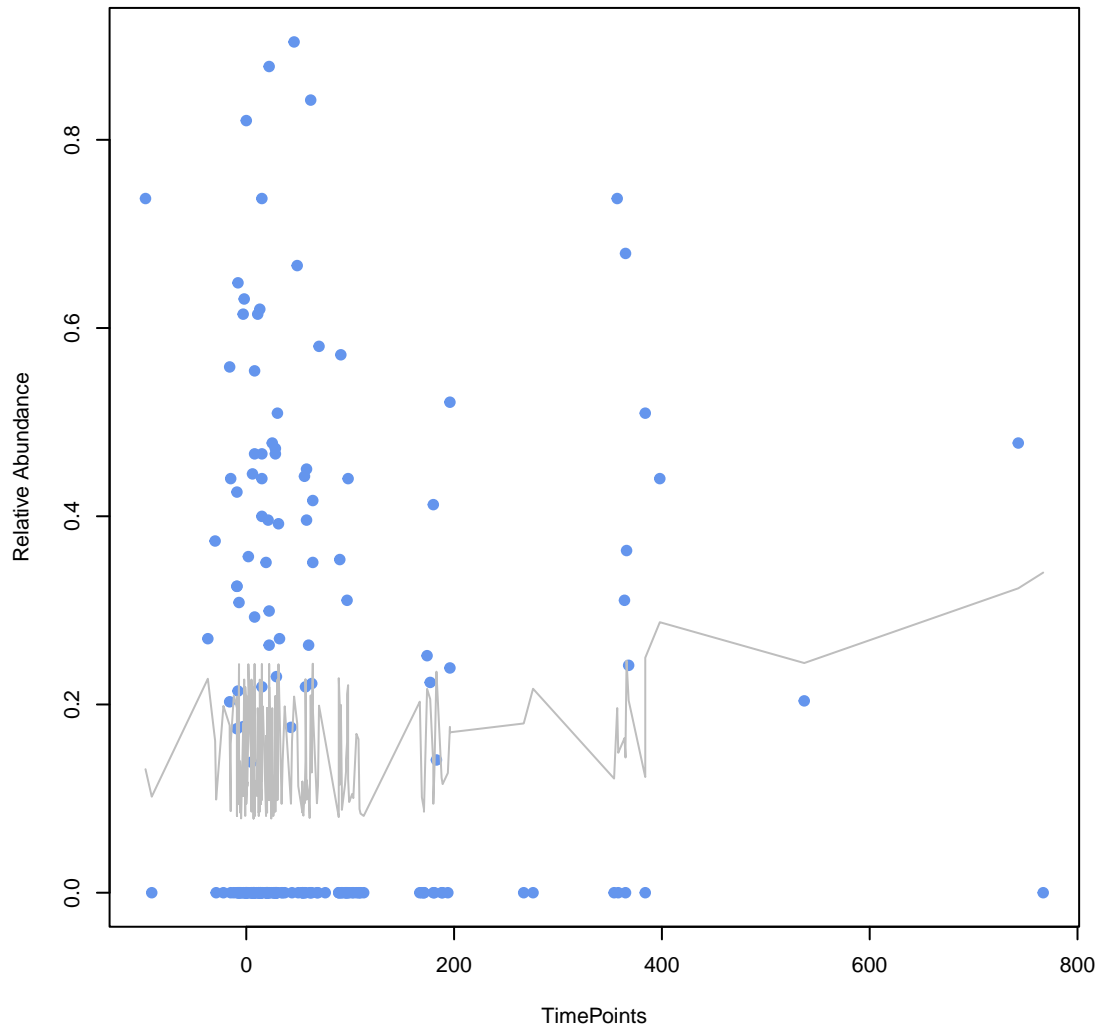




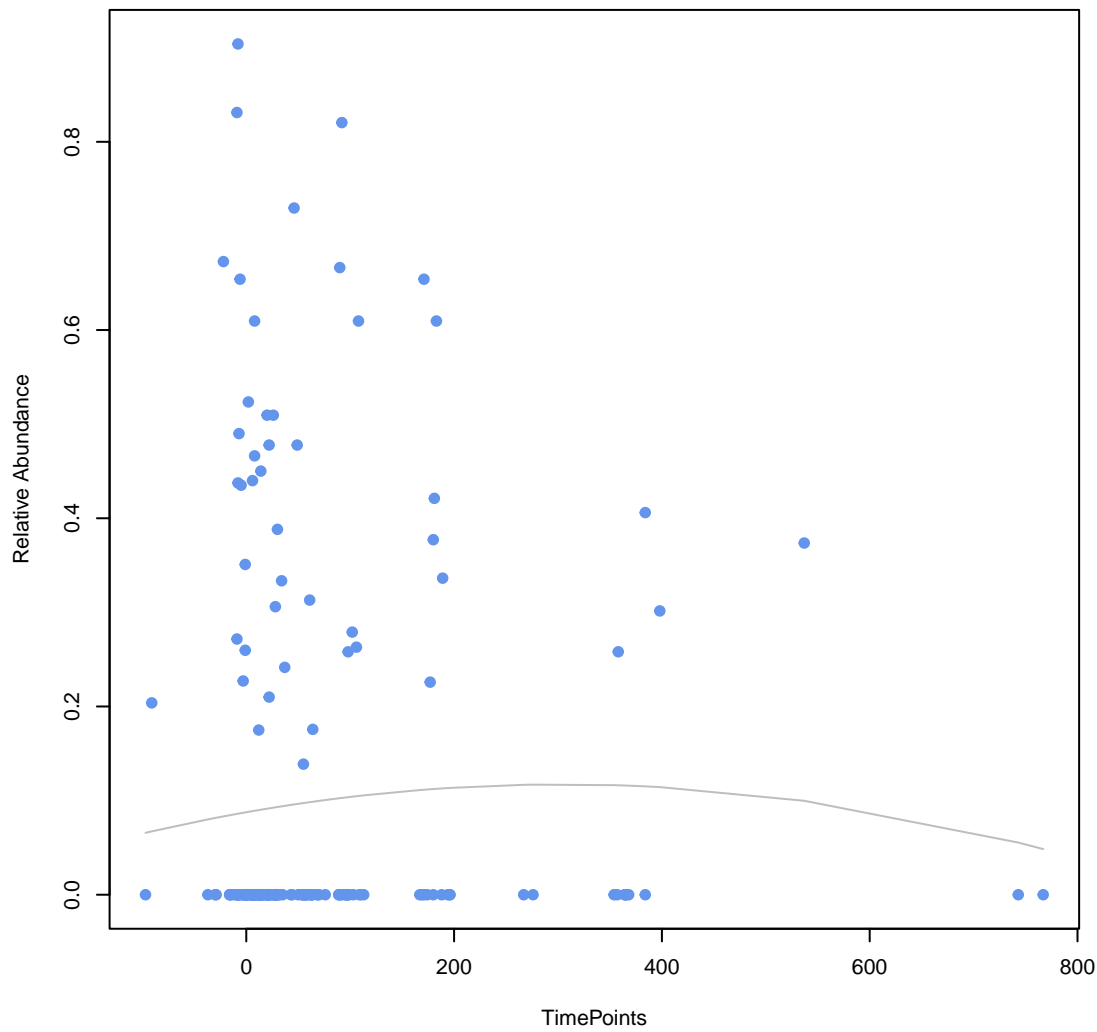
**RGI**  
**MuxC**  
ANOVA Pval: 0.894



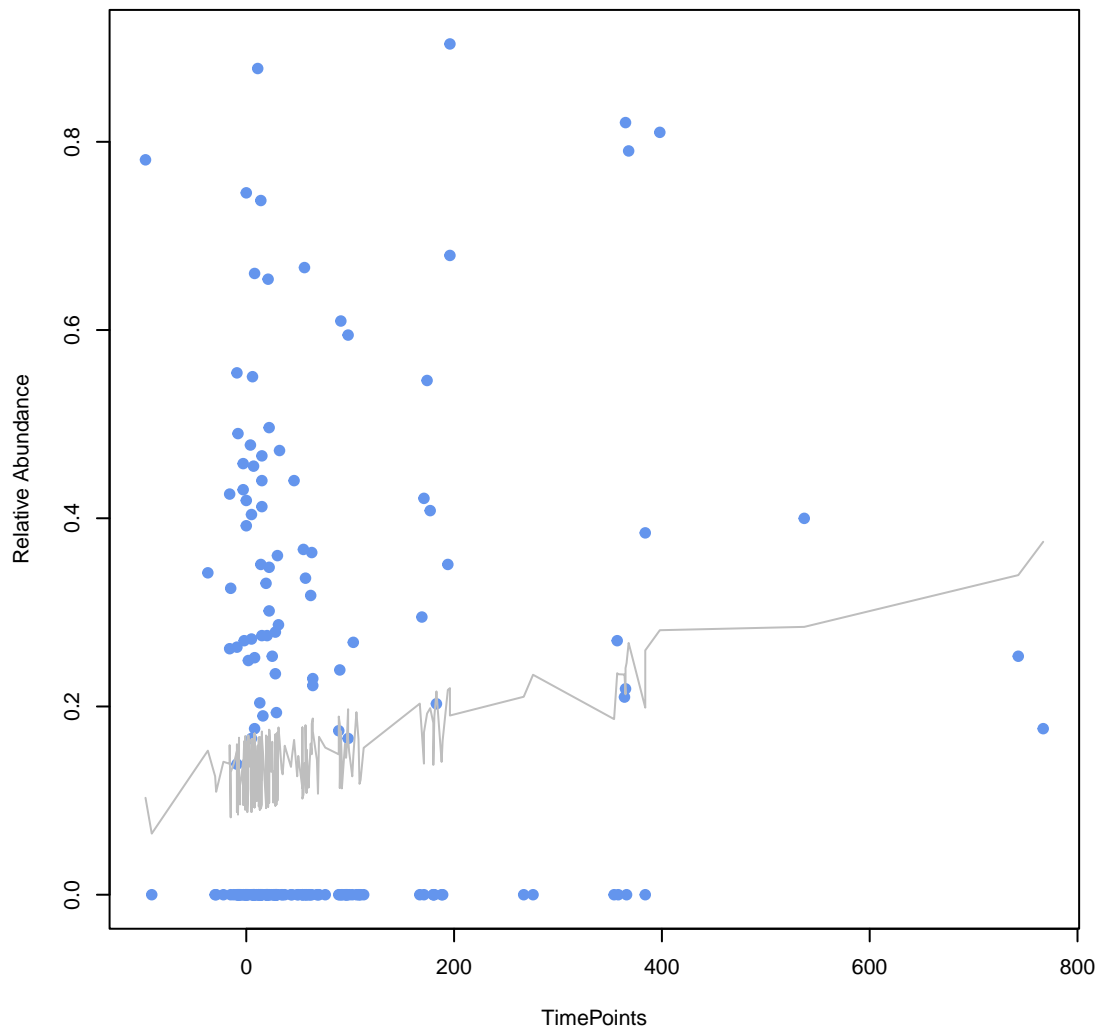
**RGI**  
**emrK**  
ANOVA Pval: 0.477



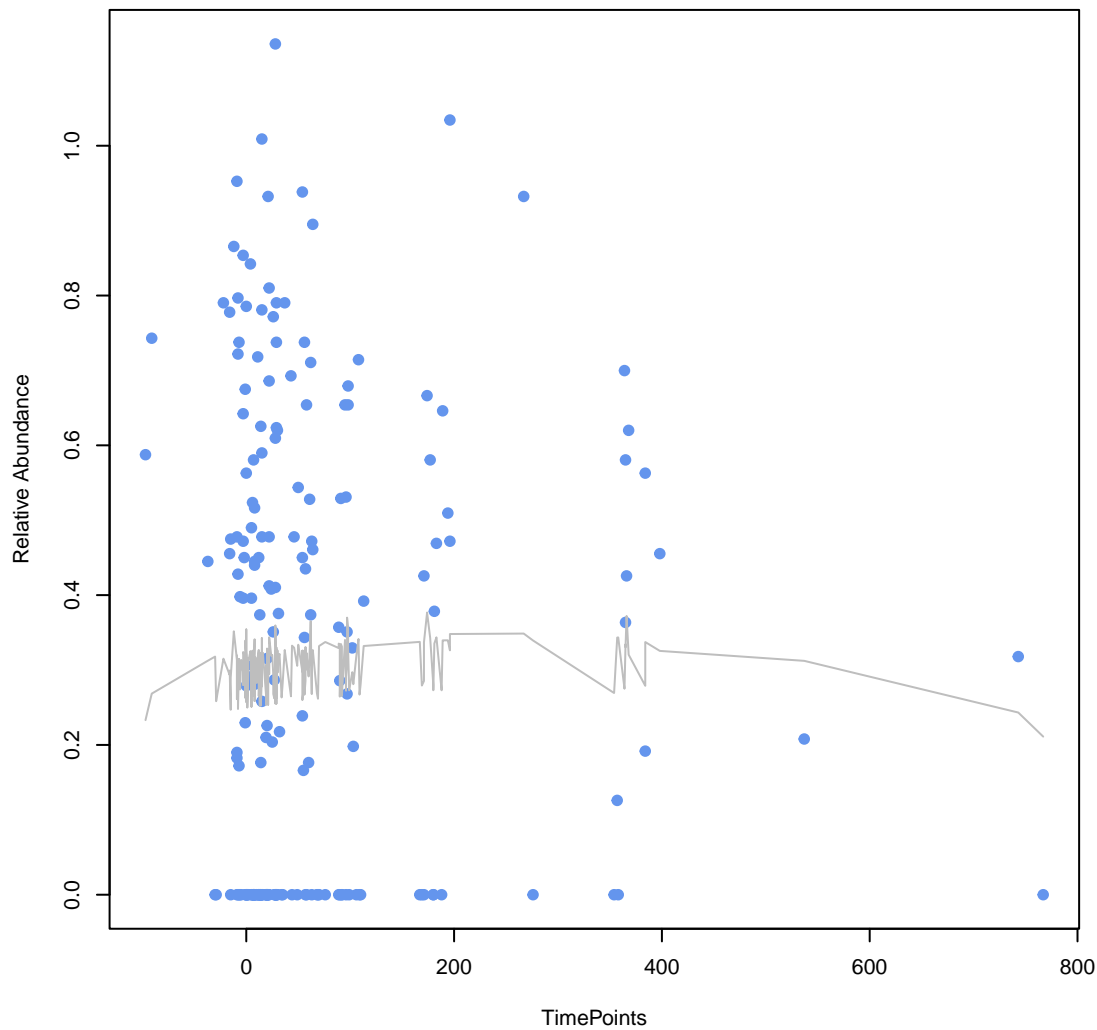
**RGI**  
**Klebsiella pneumoniae acrA**  
ANOVA Pval: 0.752



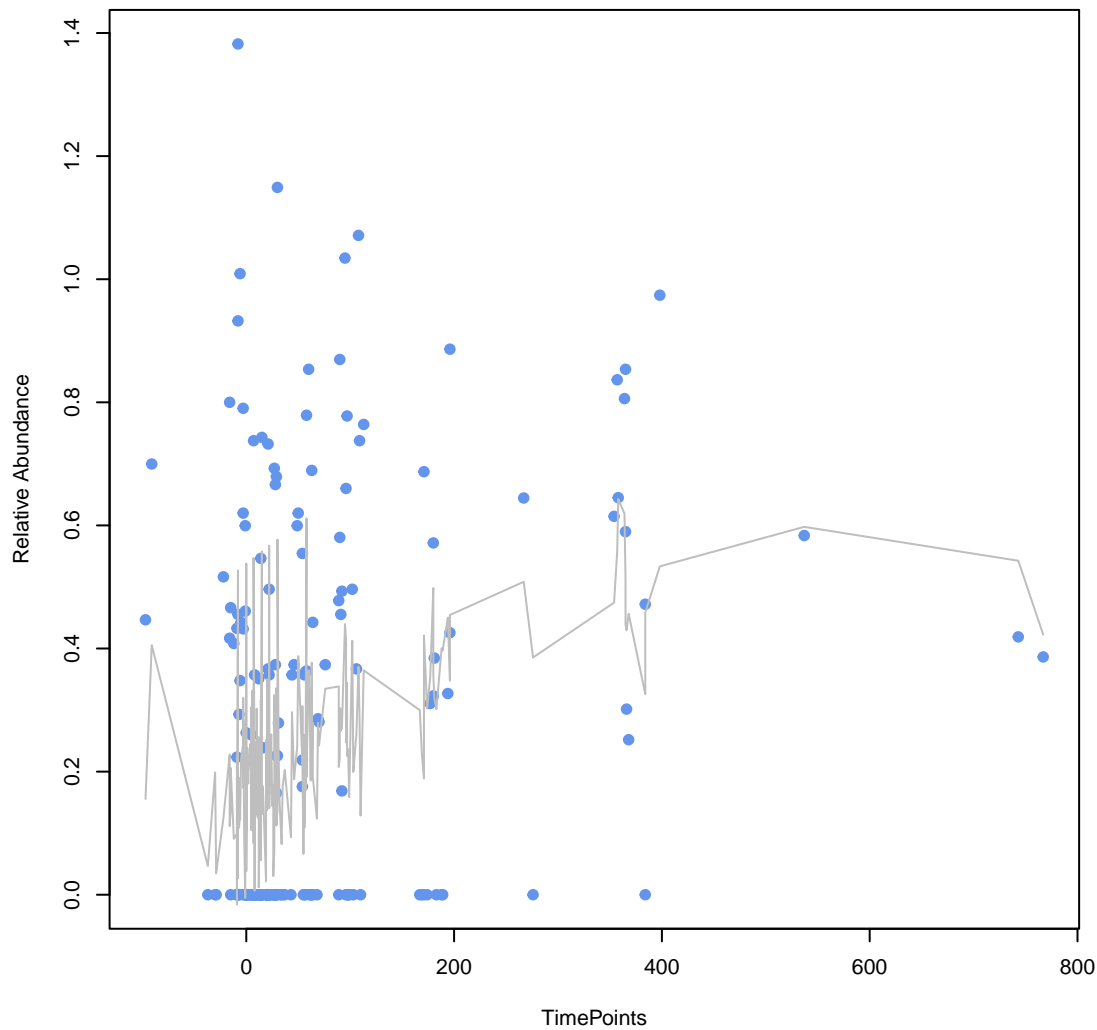
**RGI**  
**mdtE**  
ANOVA Pval: 0.0975



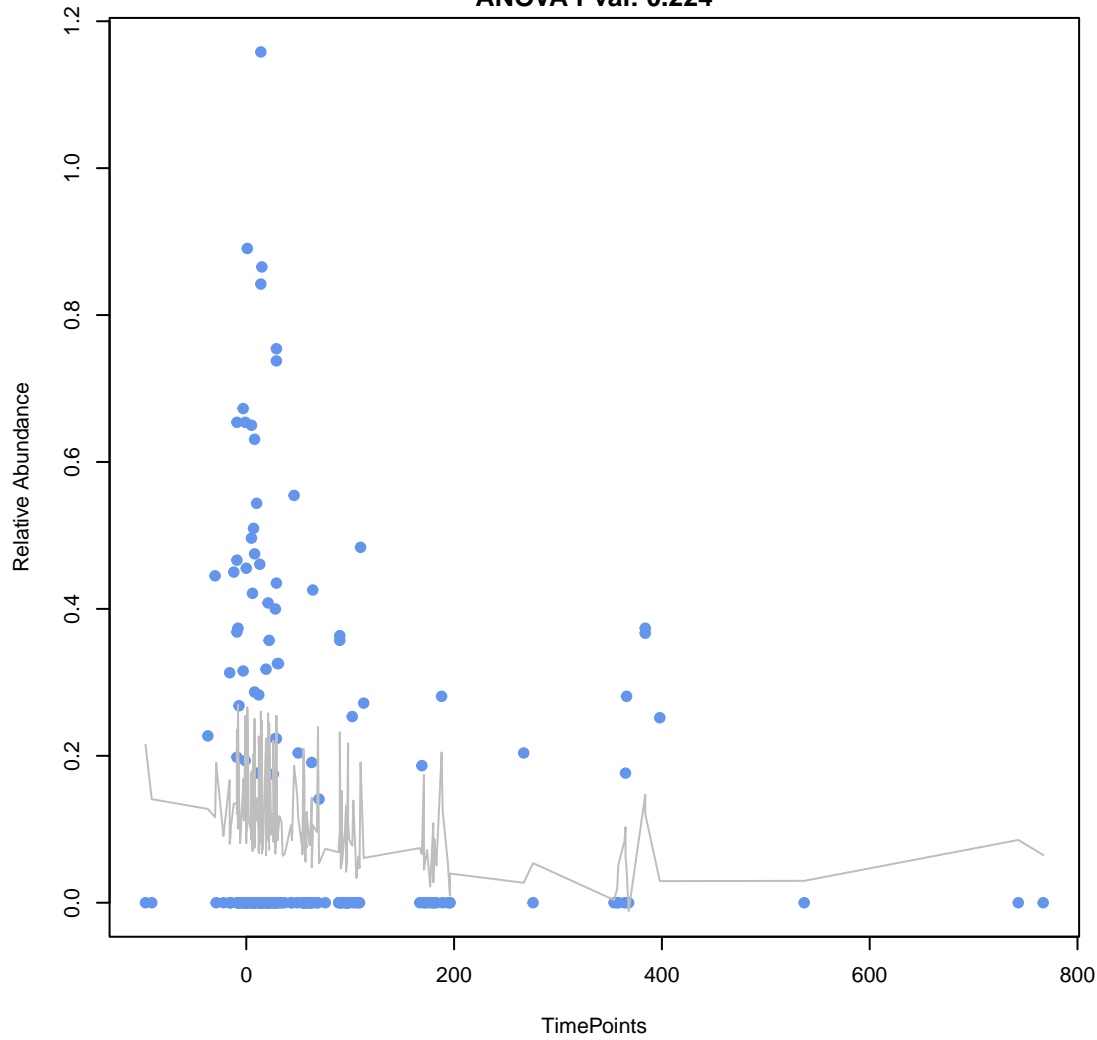
**RGI**  
**msbA**  
ANOVA Pval: 0.844



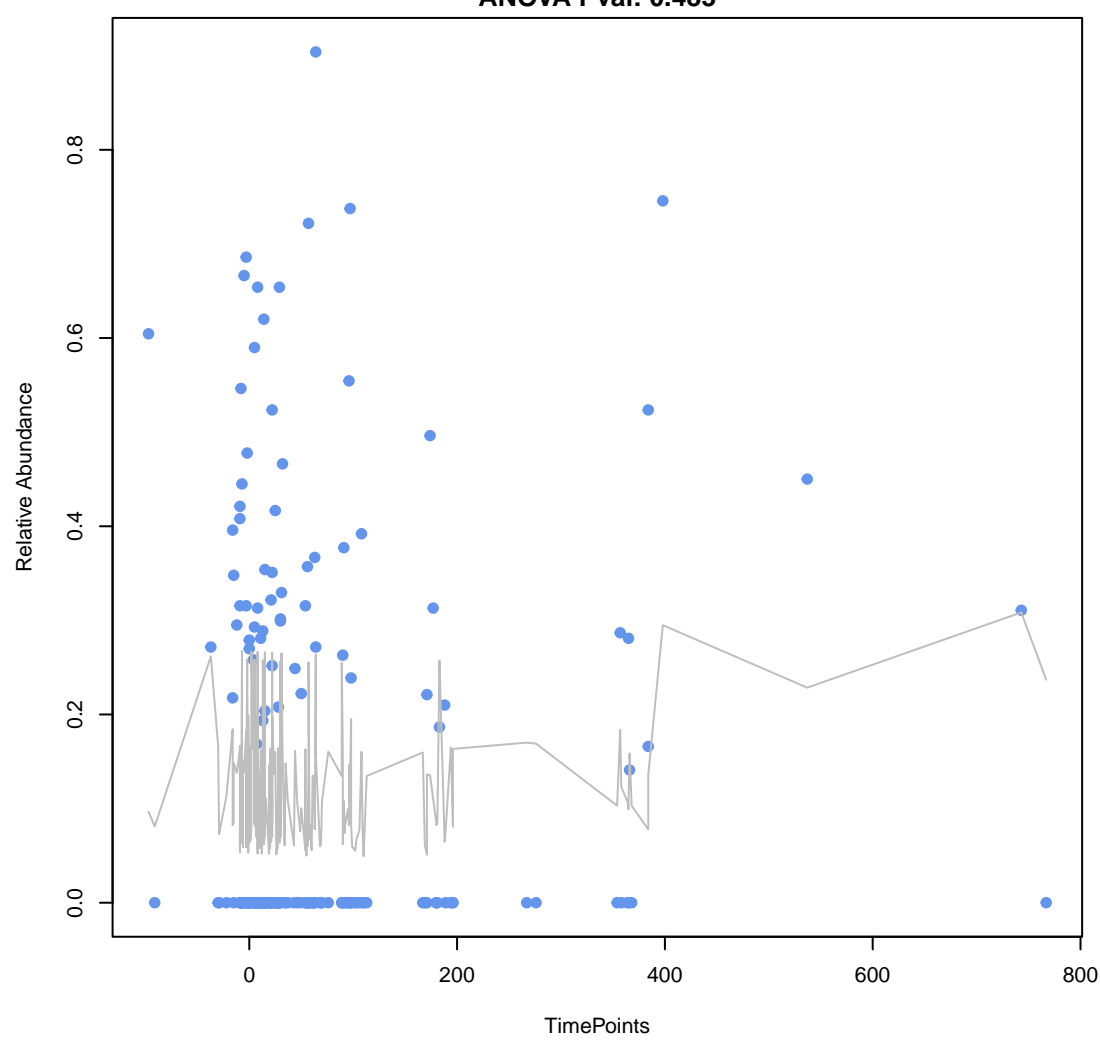
**RGI**  
**nimA**  
ANOVA Pval: 1.91e-05



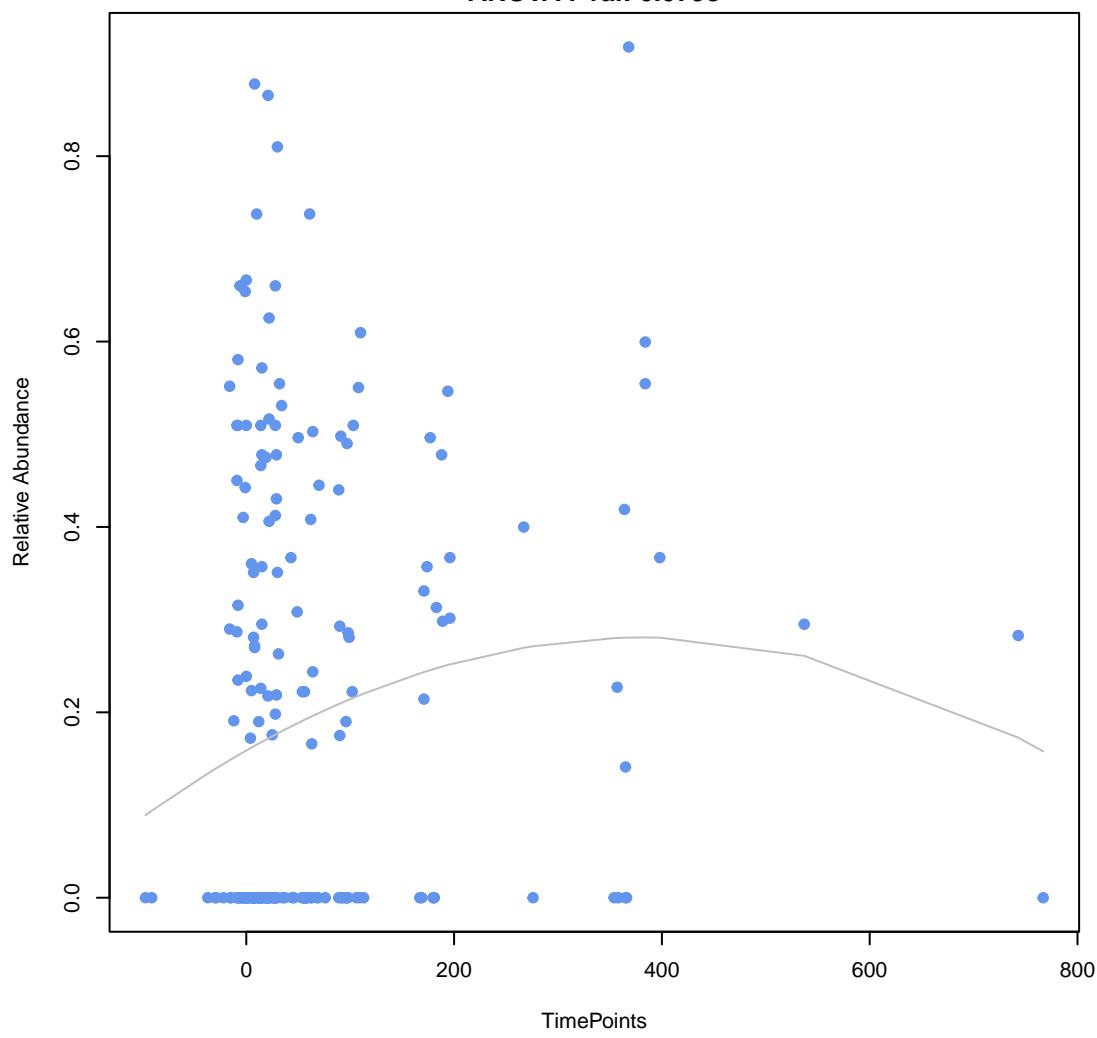
**RGI**  
**pmrA**  
ANOVA Pval: 0.224



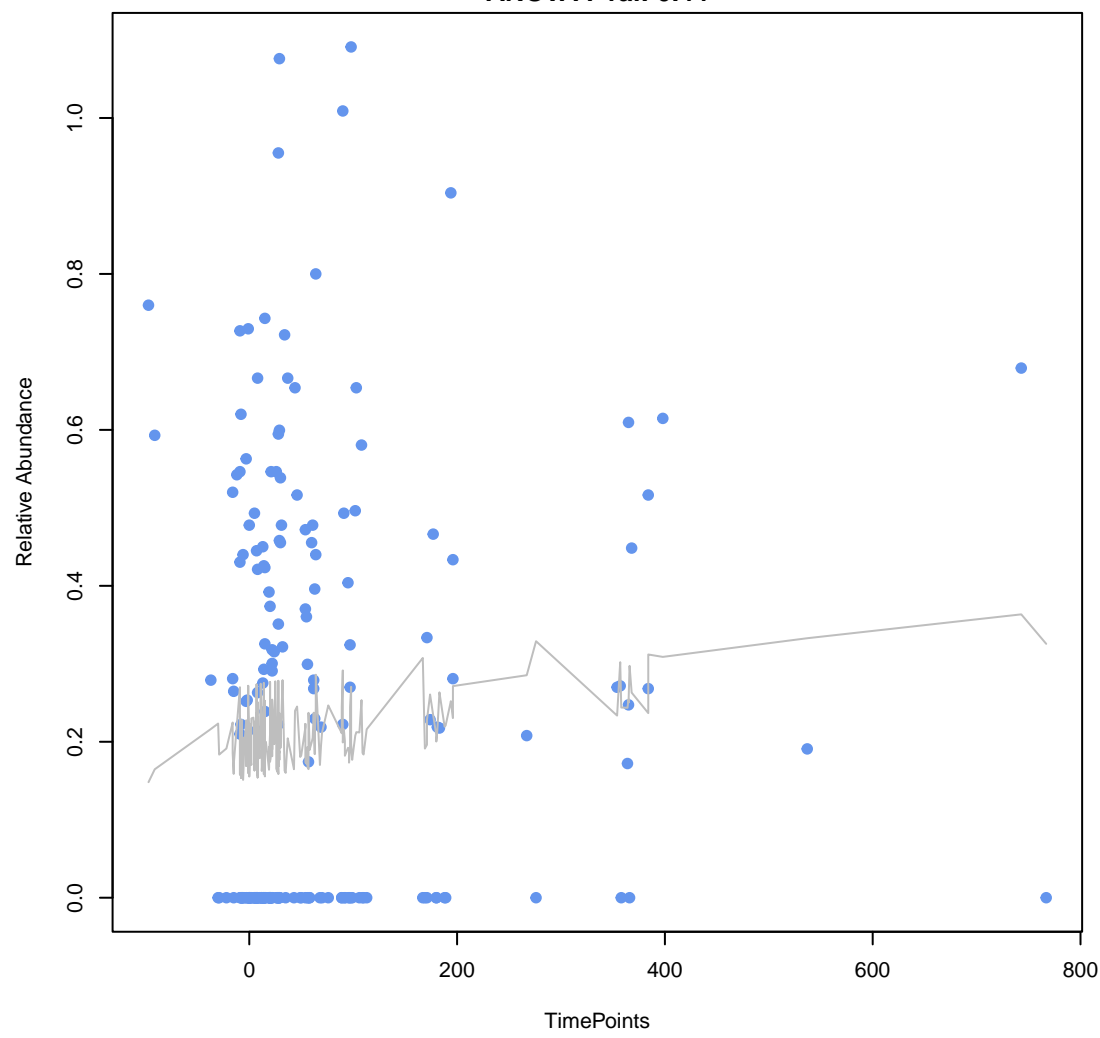
**RGI**  
**chia coli AcrAB–TolC with AcrR mutation conferring resistance to ciprofloxacin, tetracycline**  
ANOVA Pval: 0.483



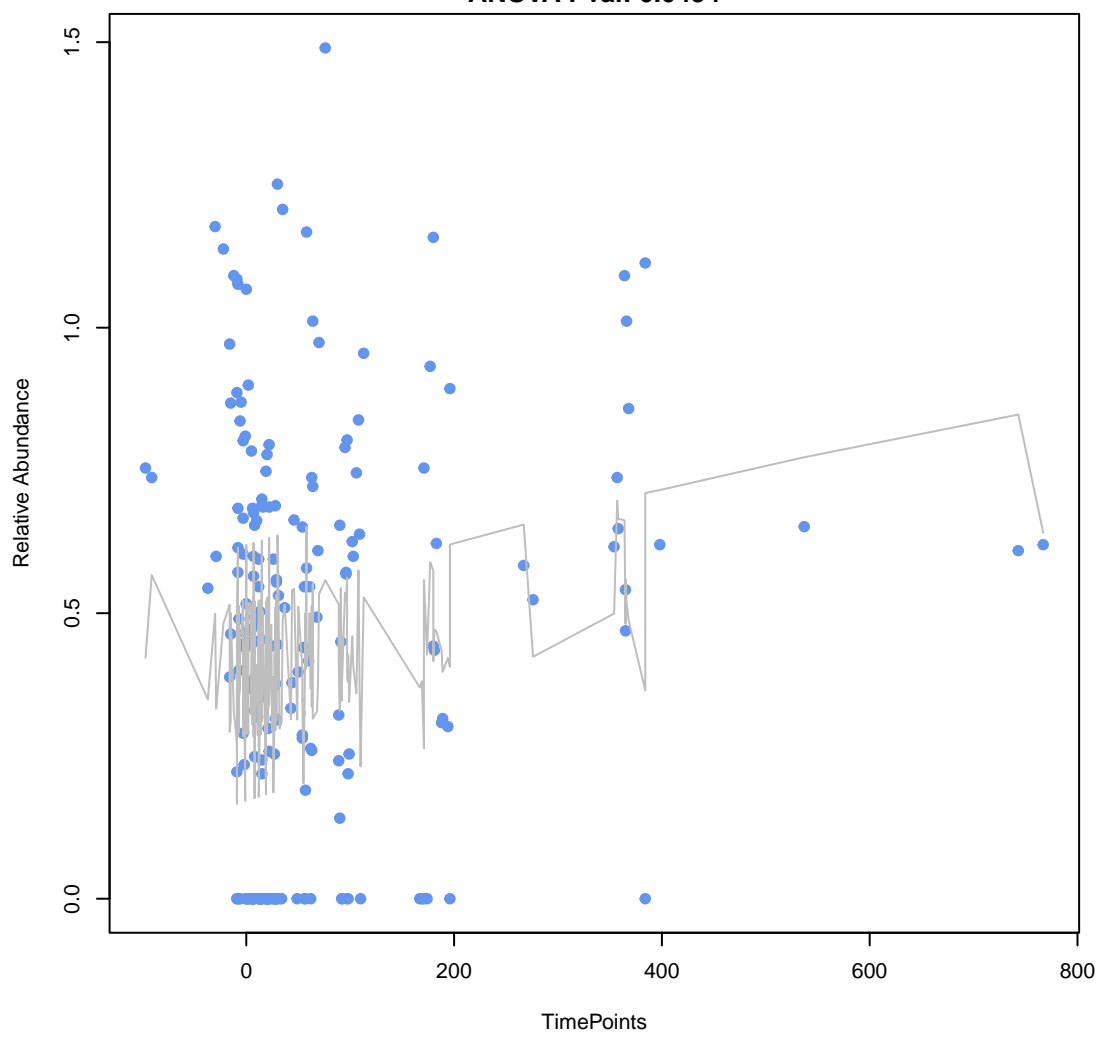
**RGI**  
**mdtM**  
ANOVA Pval: 0.0798



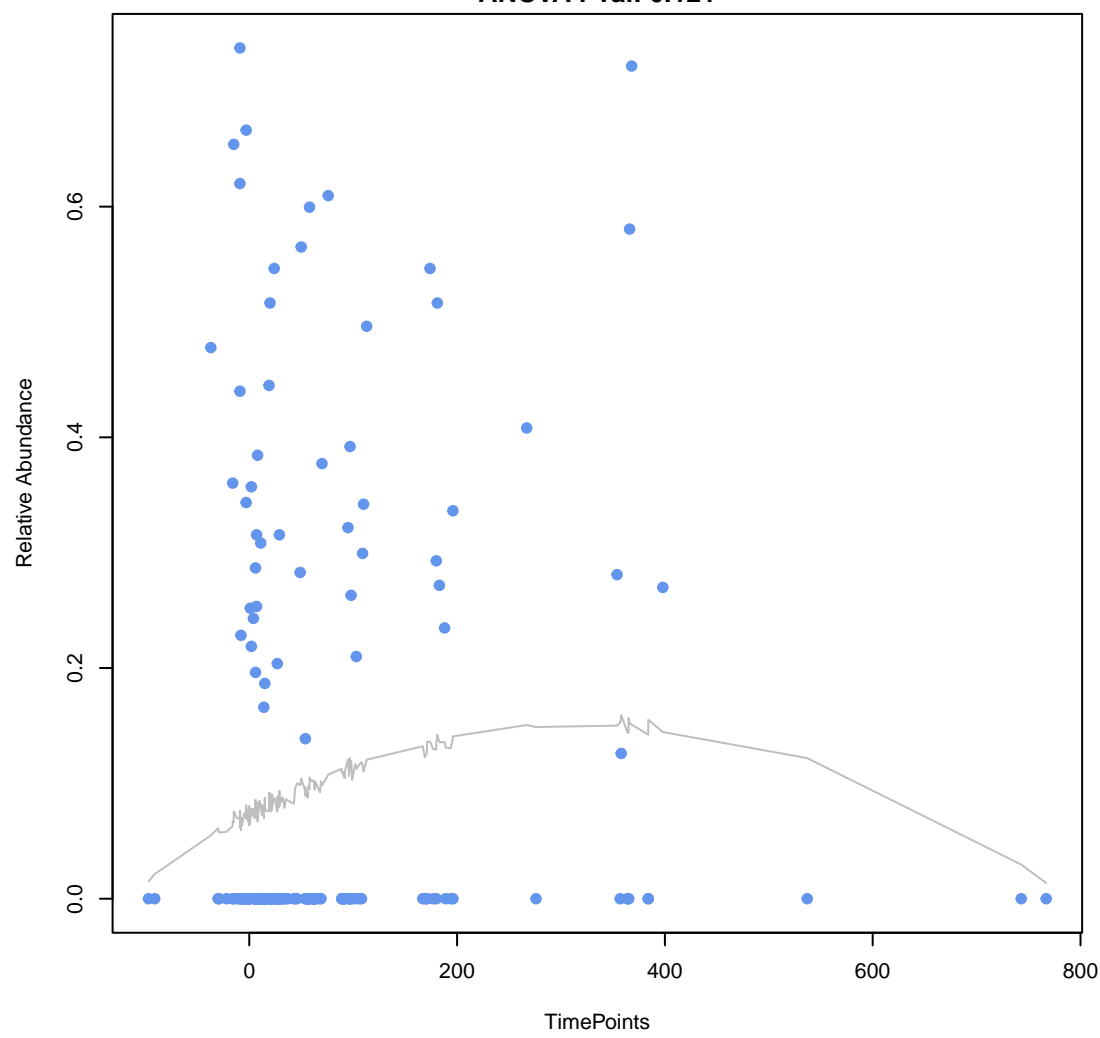
**RGI**  
**PmrF**  
ANOVA Pval: 0.44

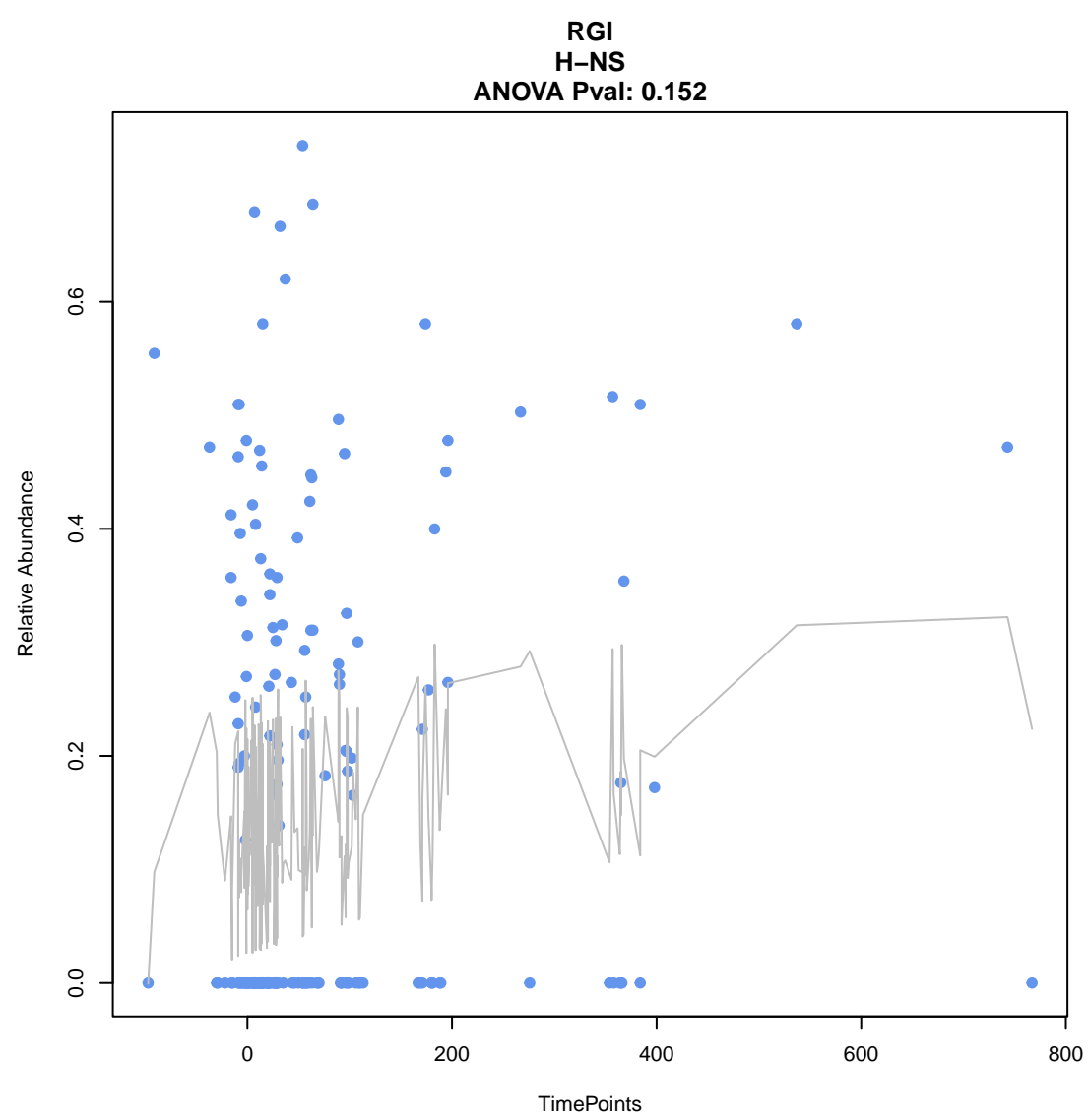
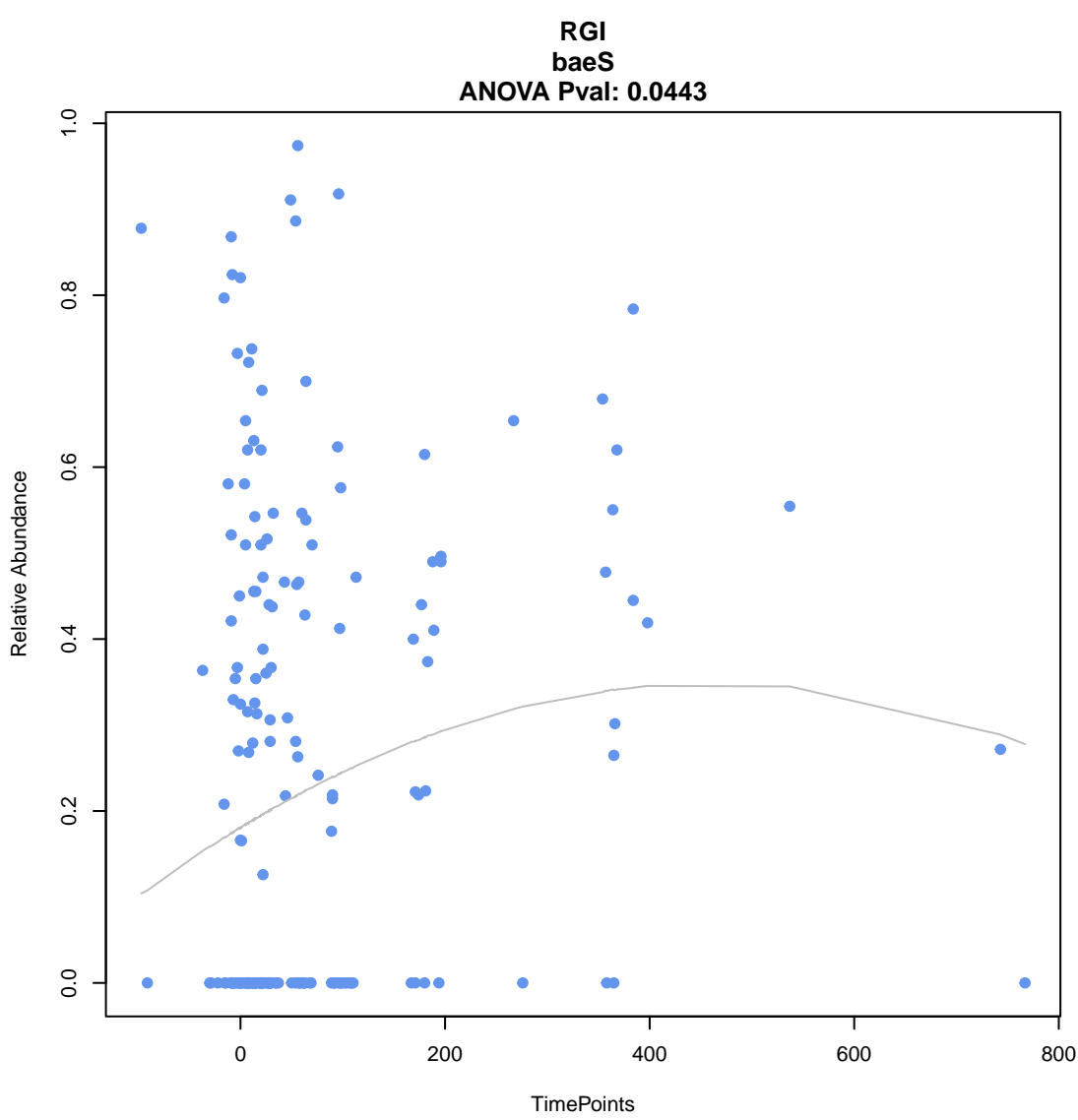
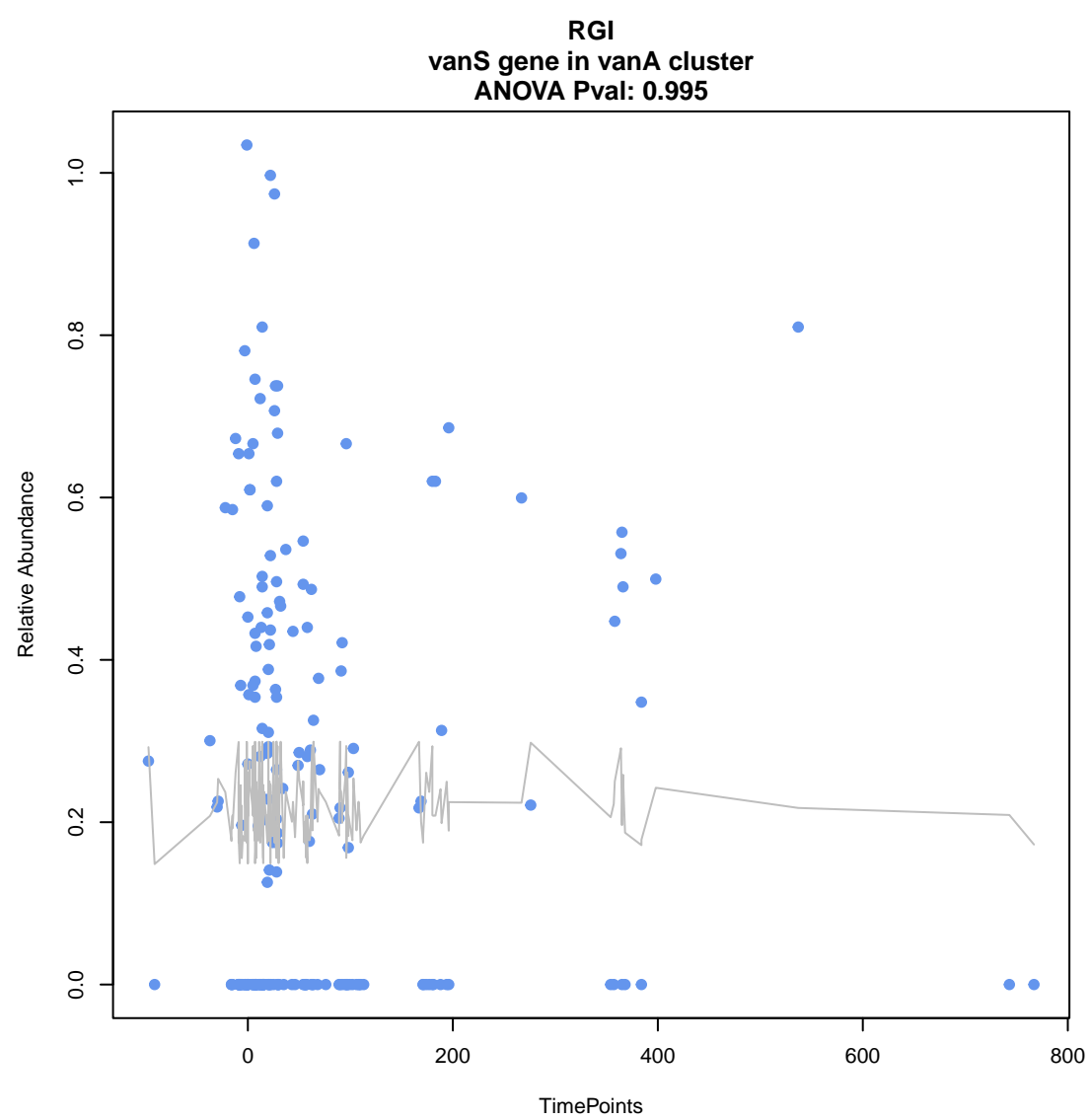
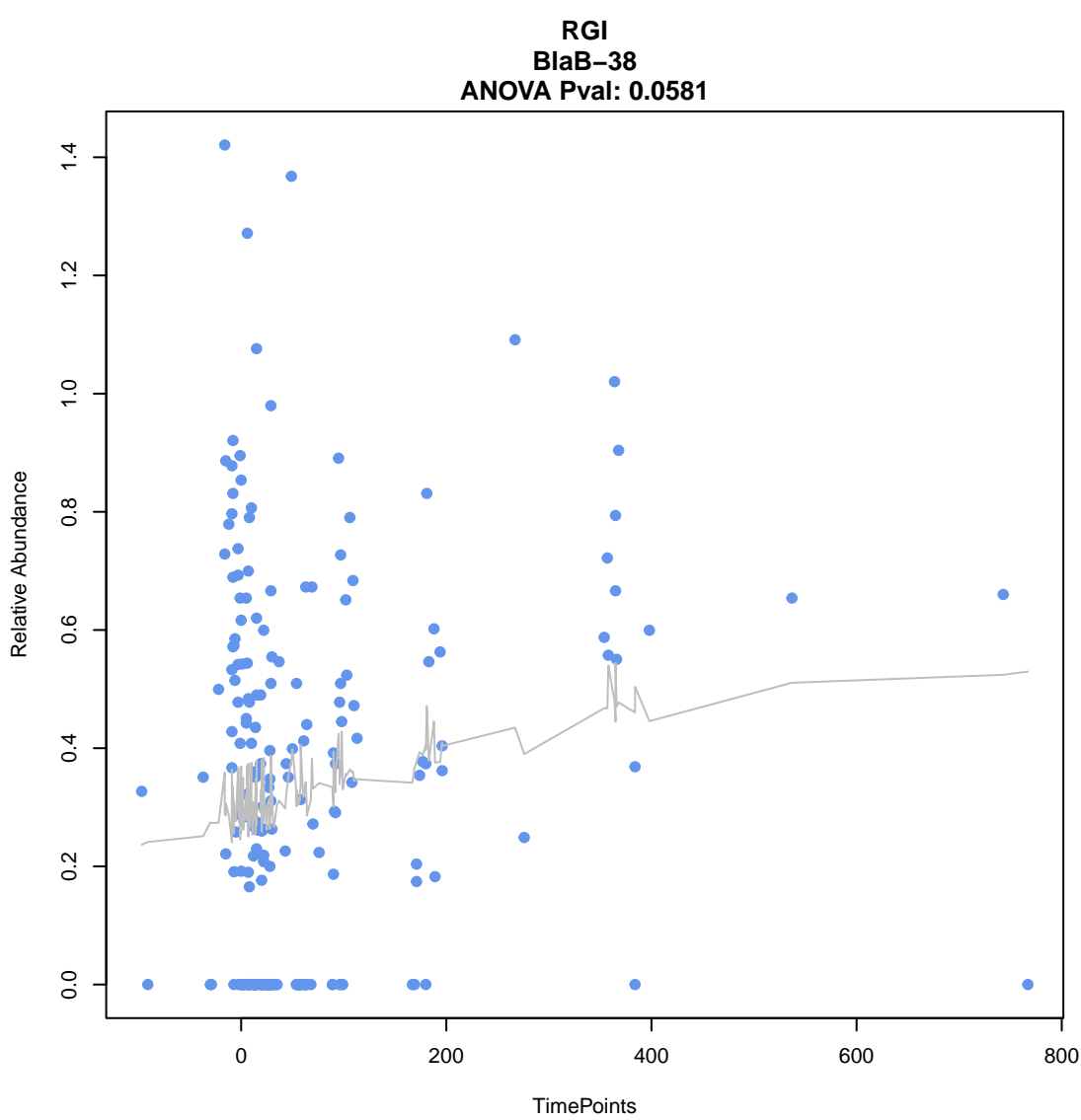
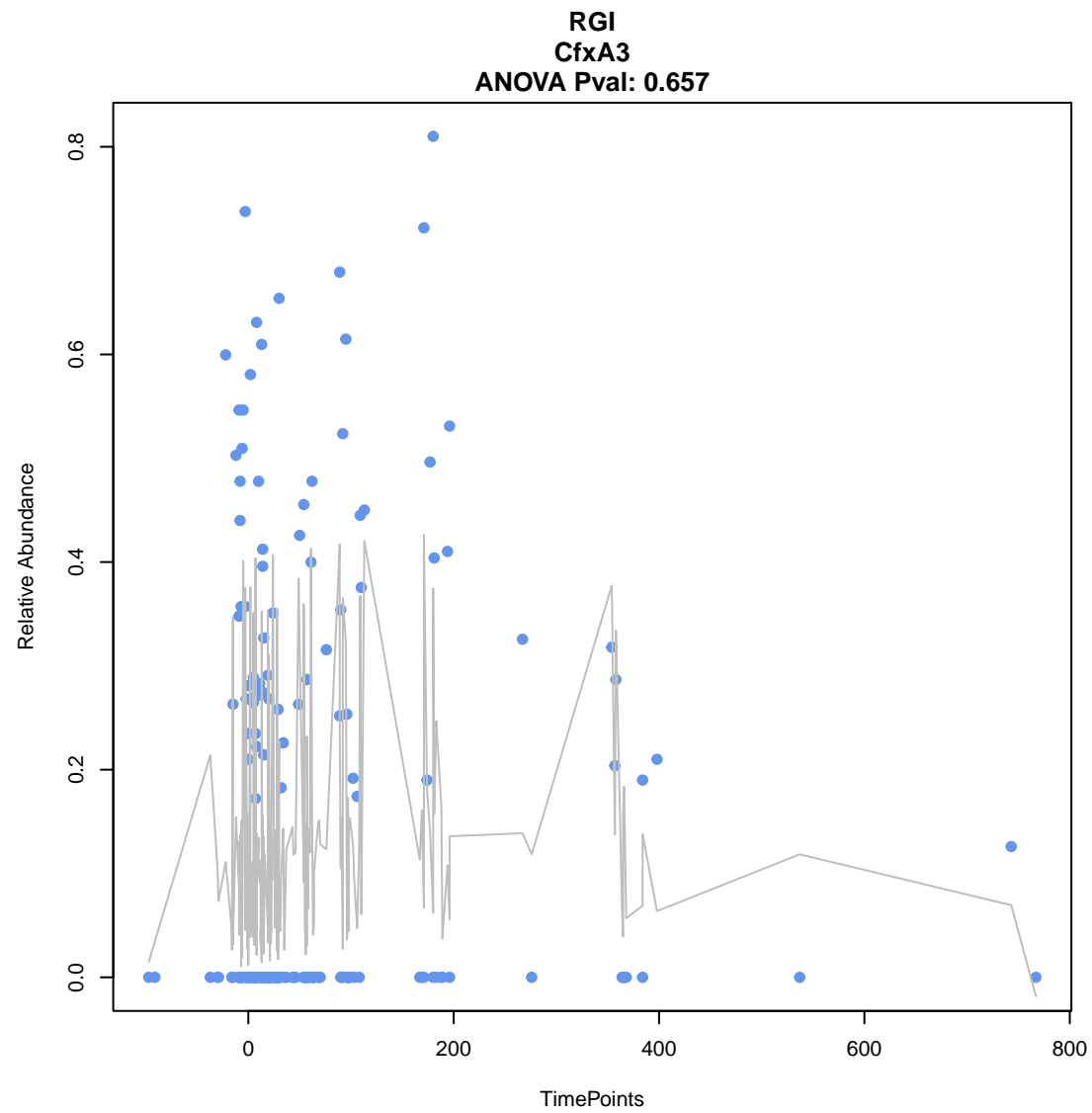
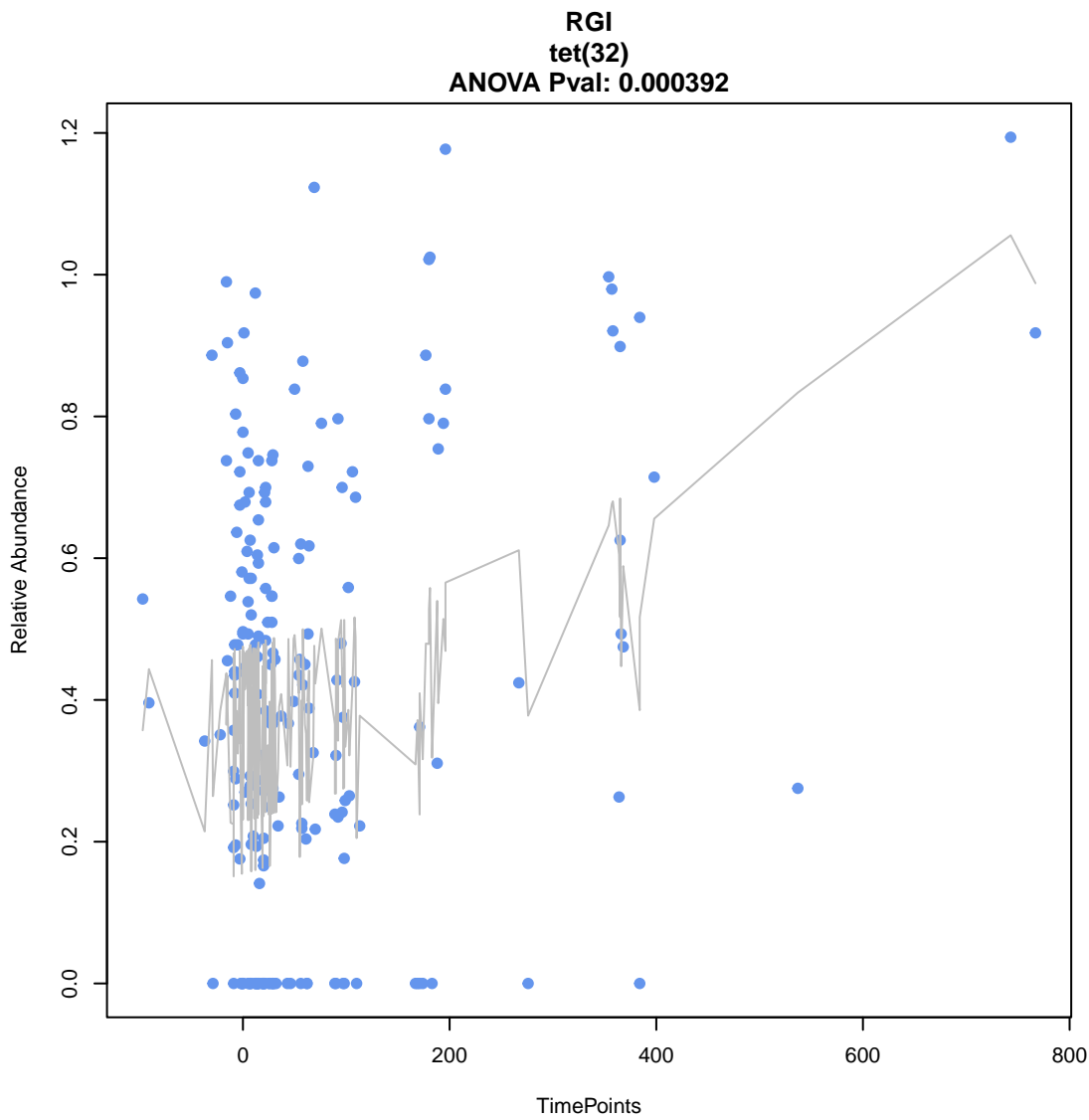


**RGI**  
**poxA**  
ANOVA Pval: 0.0454

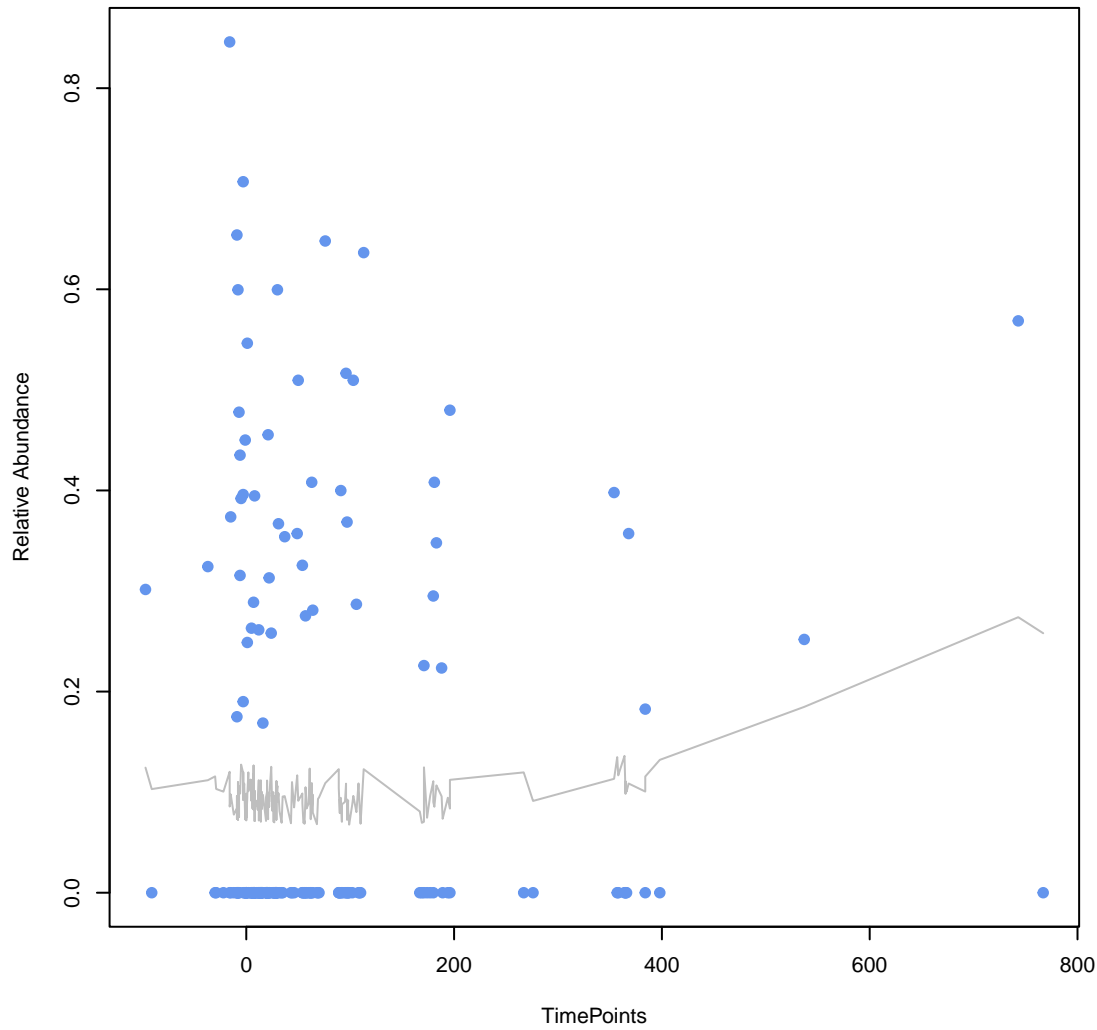


**RGI**  
**mtrD**  
ANOVA Pval: 0.121

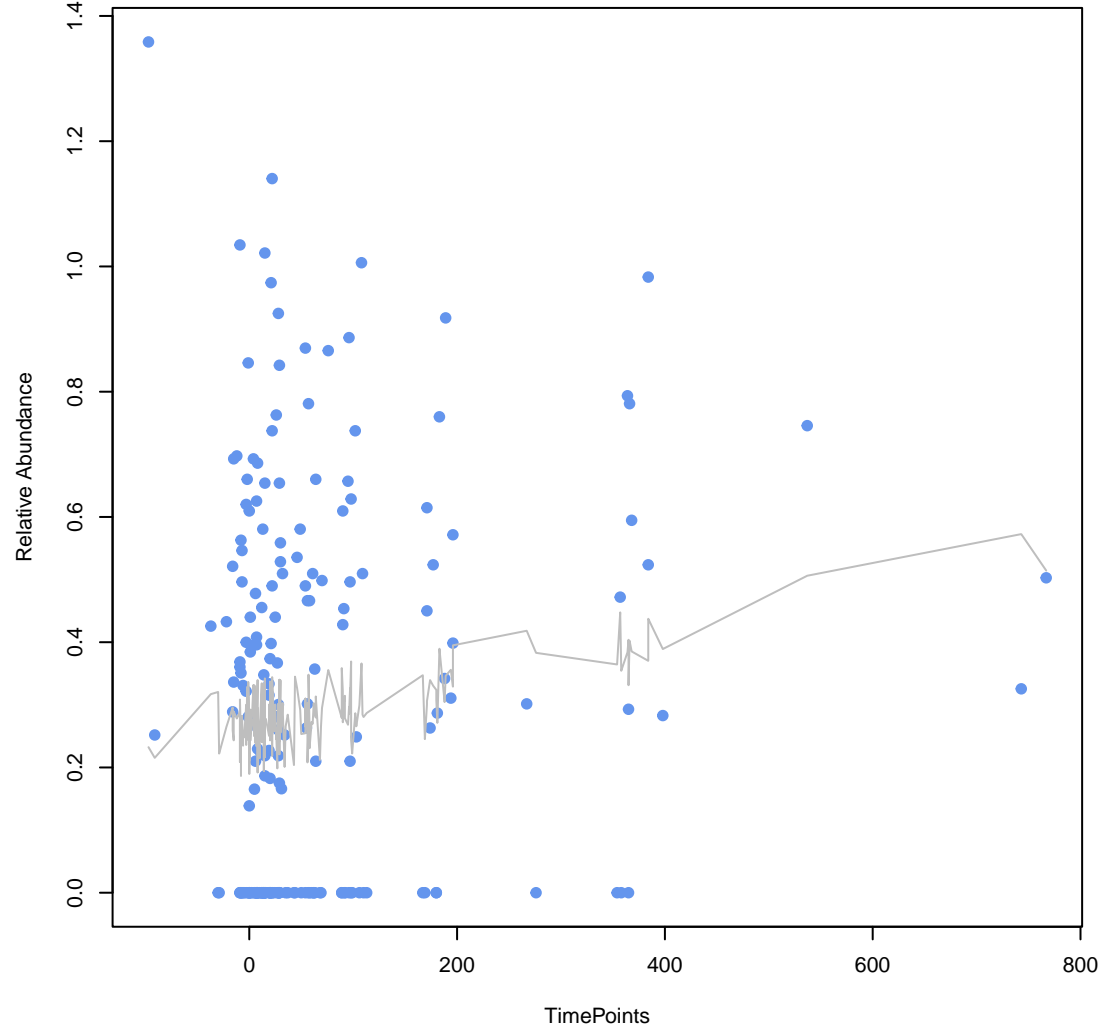




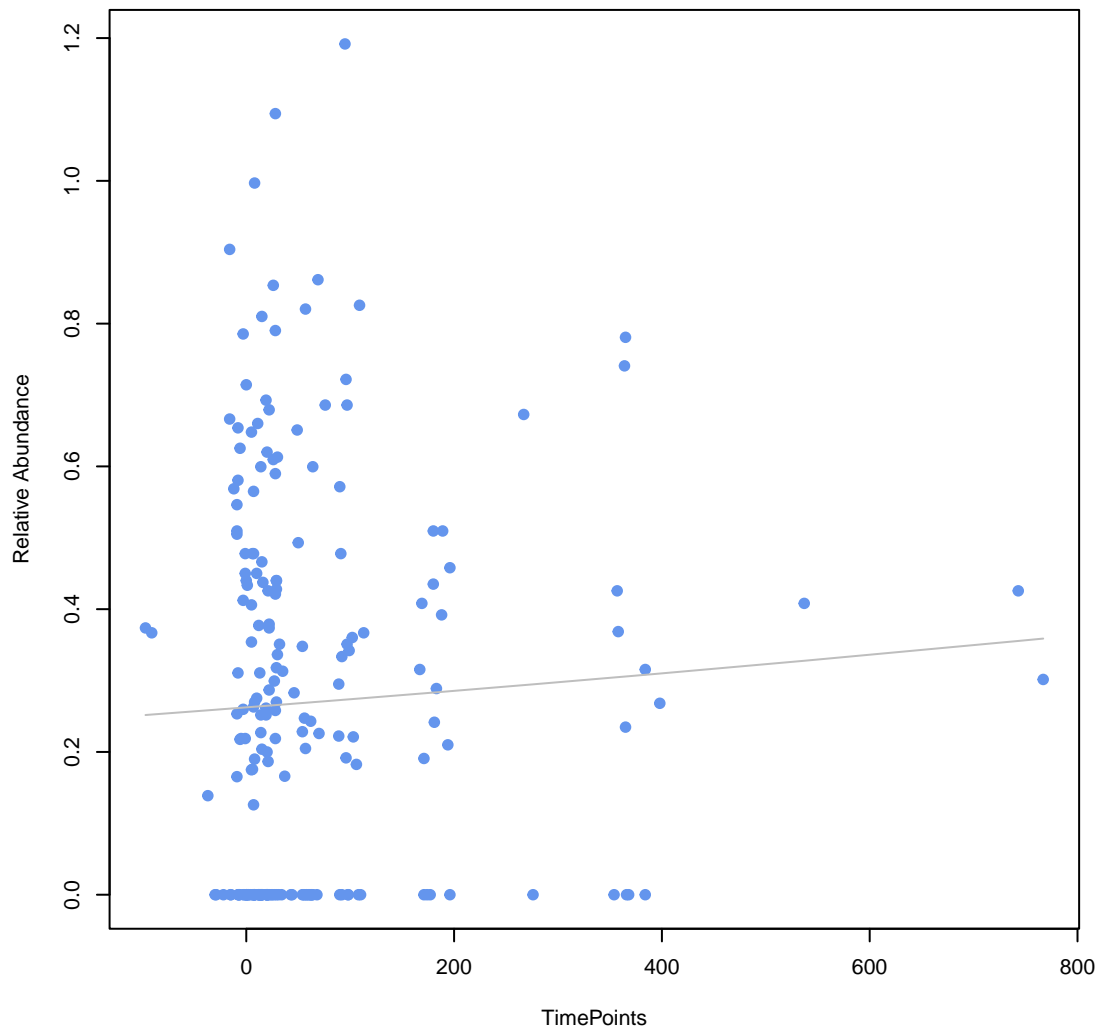
**RGI**  
**SHV-43**  
**ANOVA Pval: 0.367**



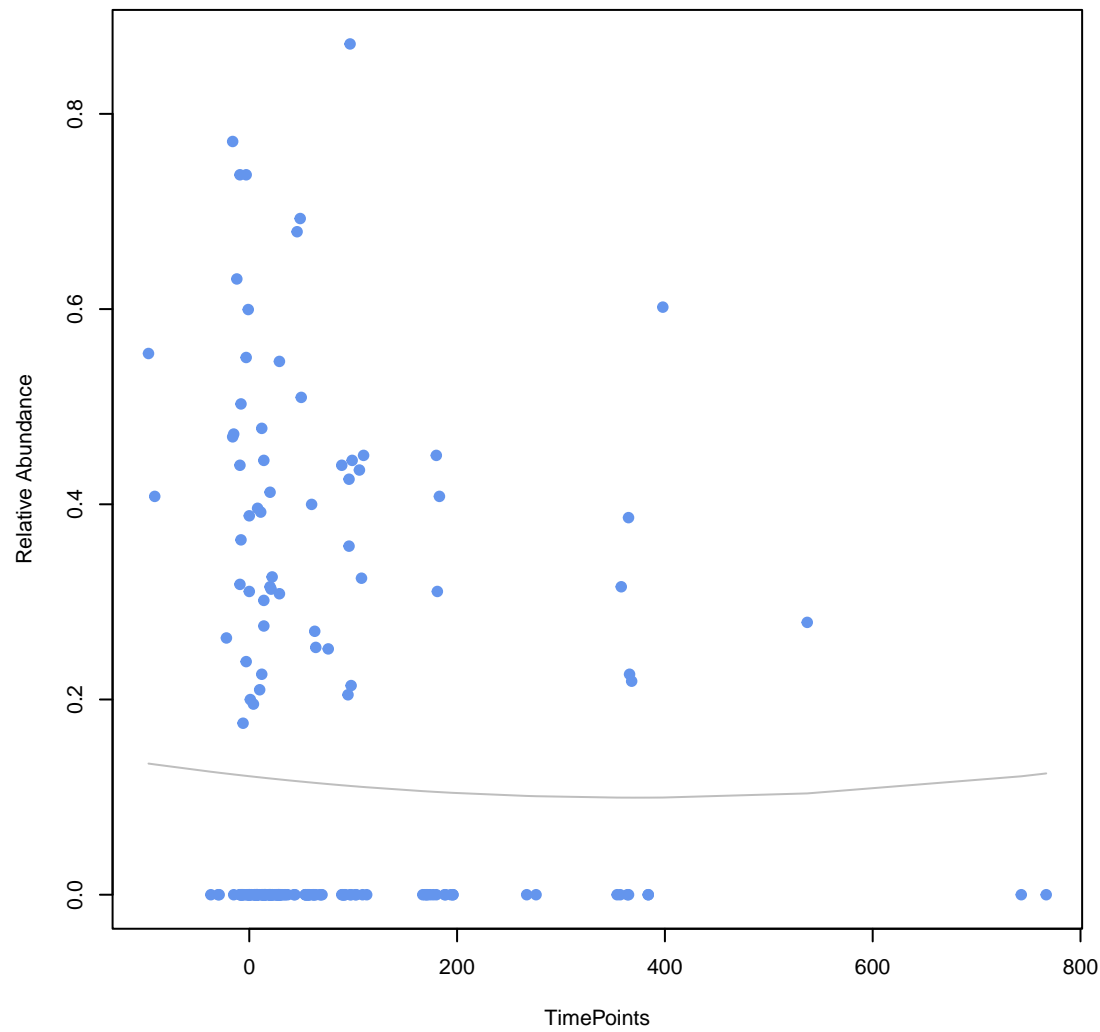
**RGI**  
**cpxA**  
**ANOVA Pval: 0.183**



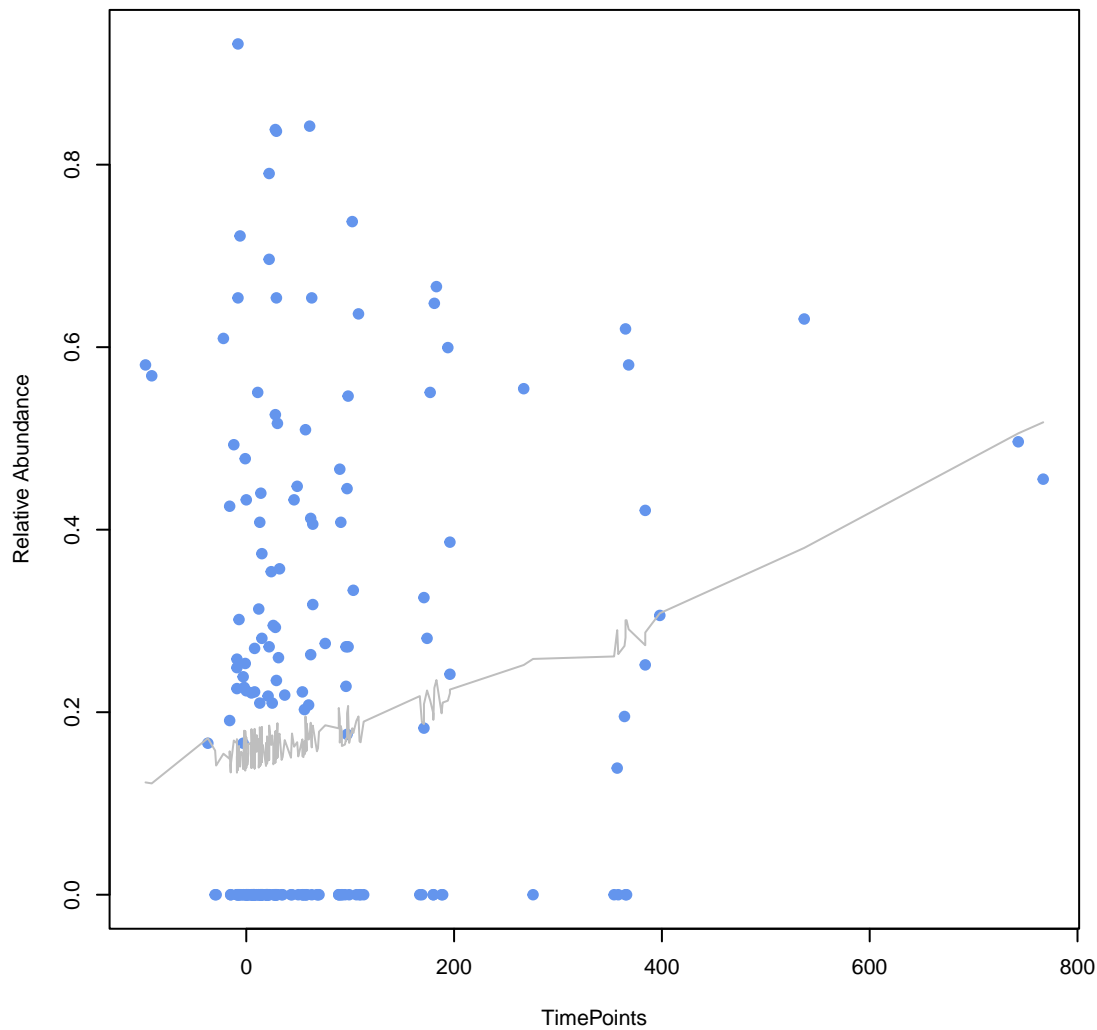
**RGI**  
**fexA**  
**ANOVA Pval: 0.744**



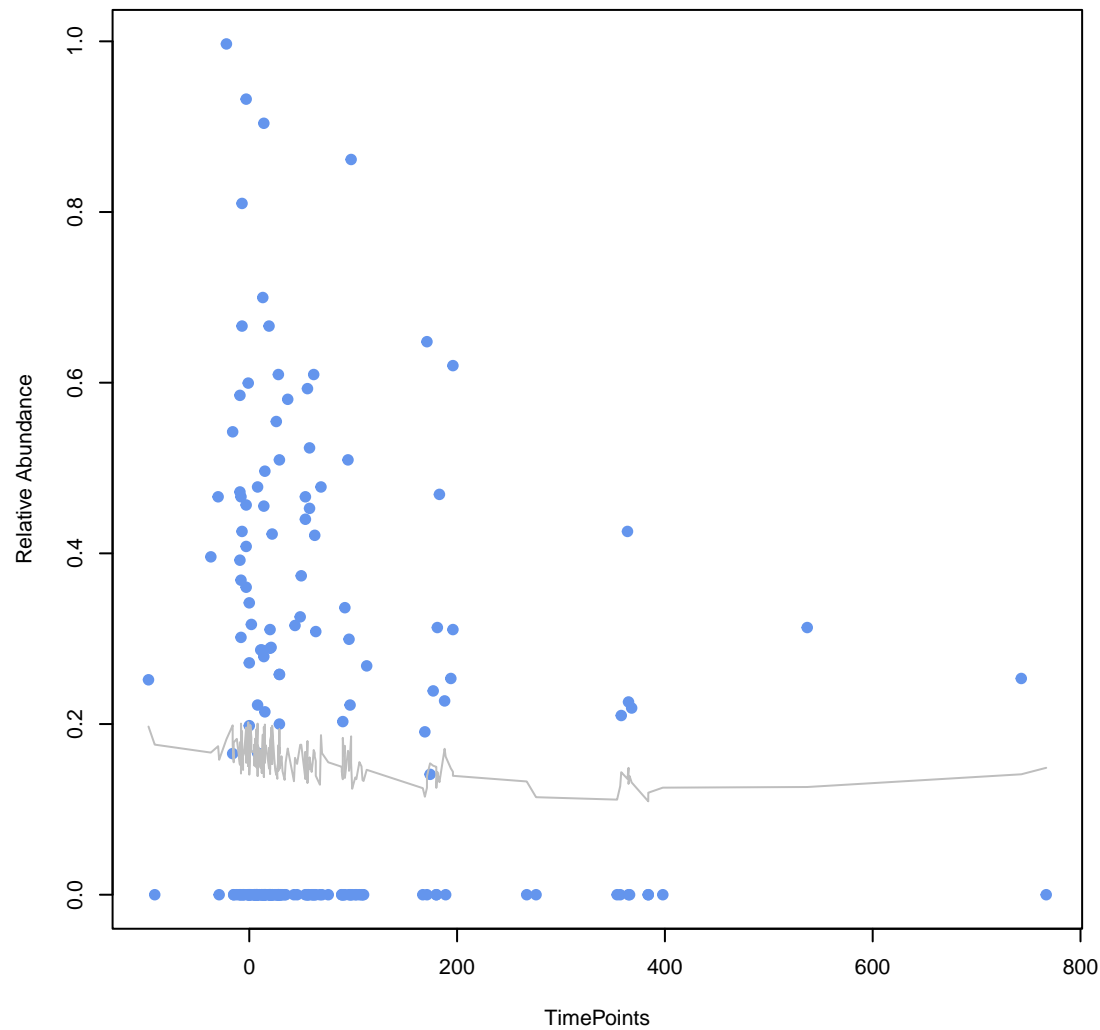
**RGI**  
**TaeA**  
**ANOVA Pval: 0.893**



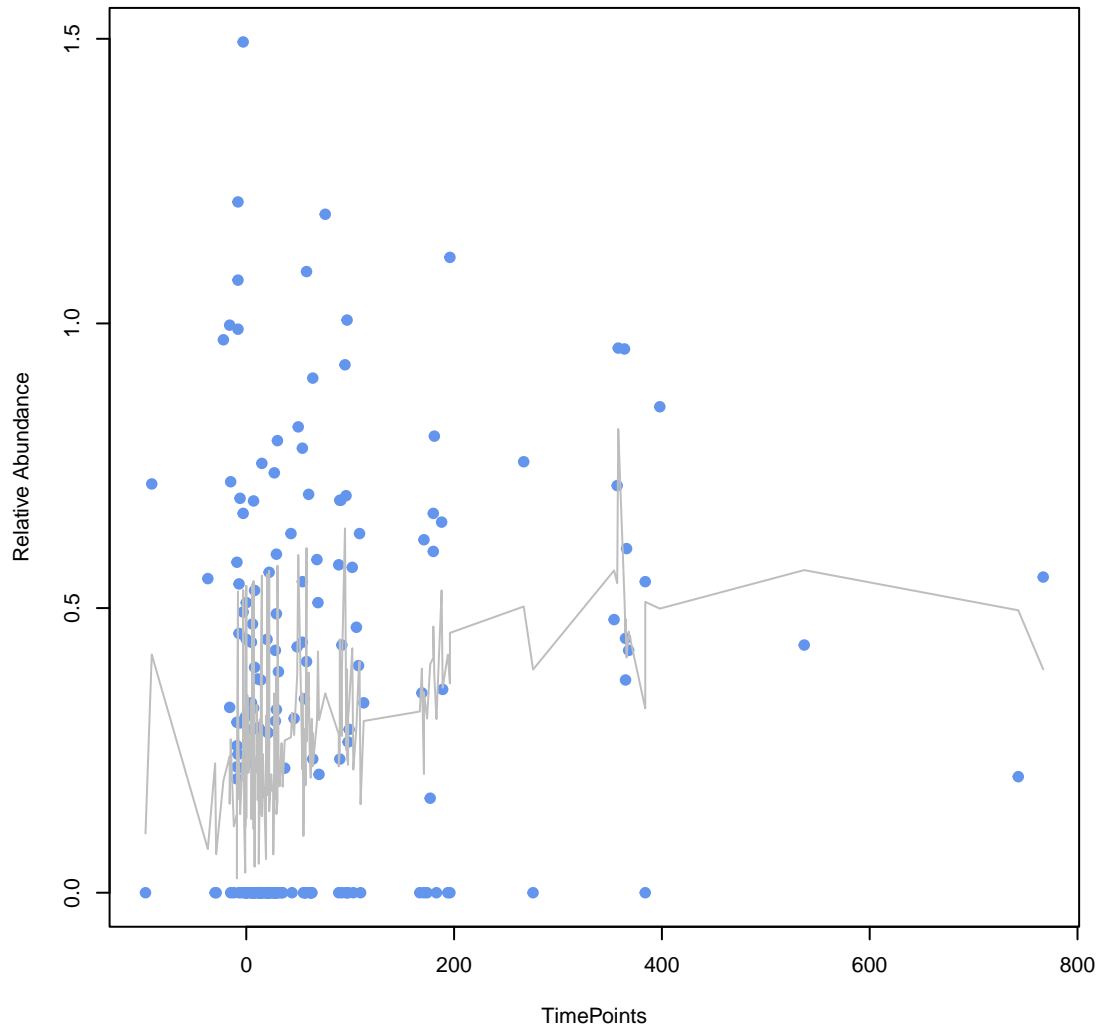
**RGI**  
**emrR**  
**ANOVA Pval: 0.0168**



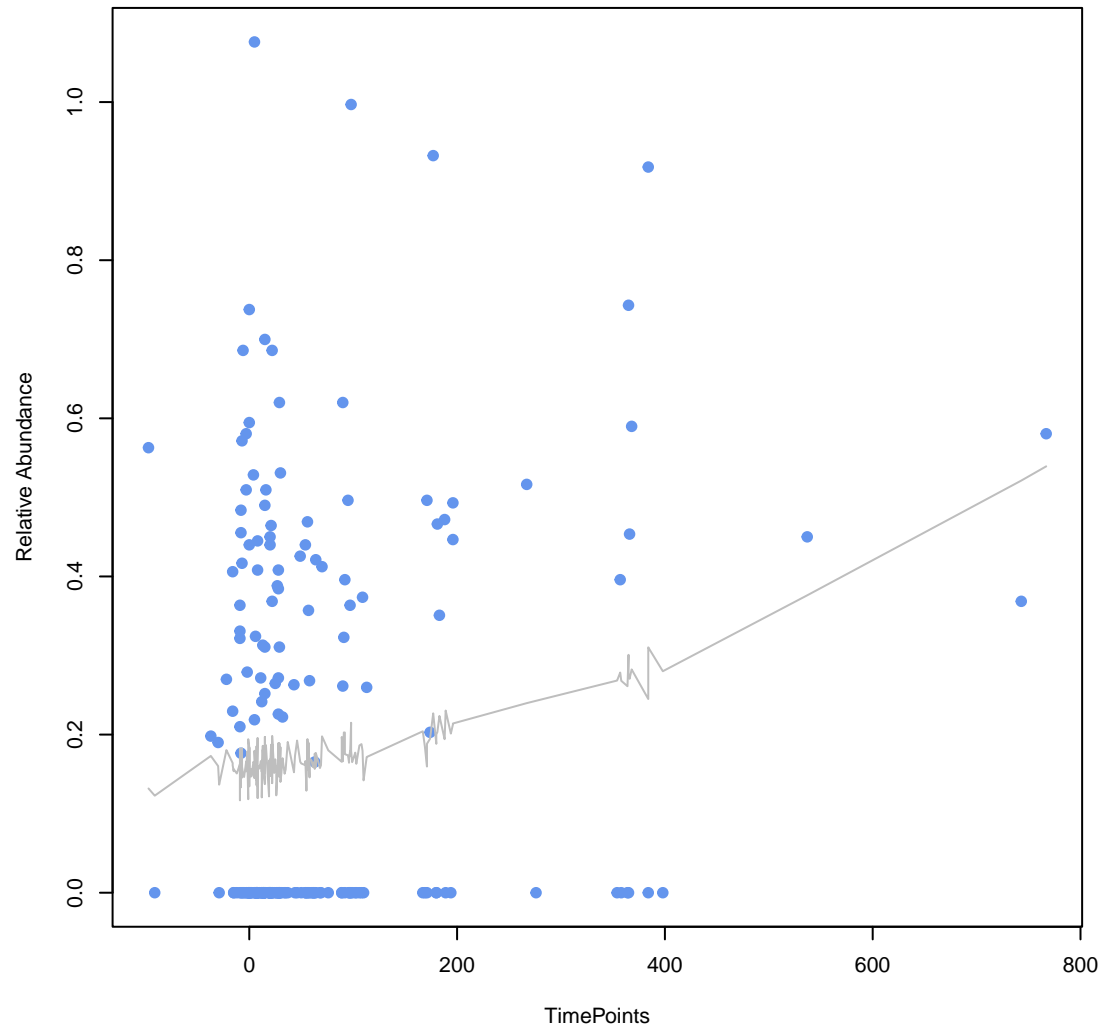
**RGI**  
**Bifidobacterium bifidum ileS conferring resistance to mupirocin**  
**ANOVA Pval: 0.754**



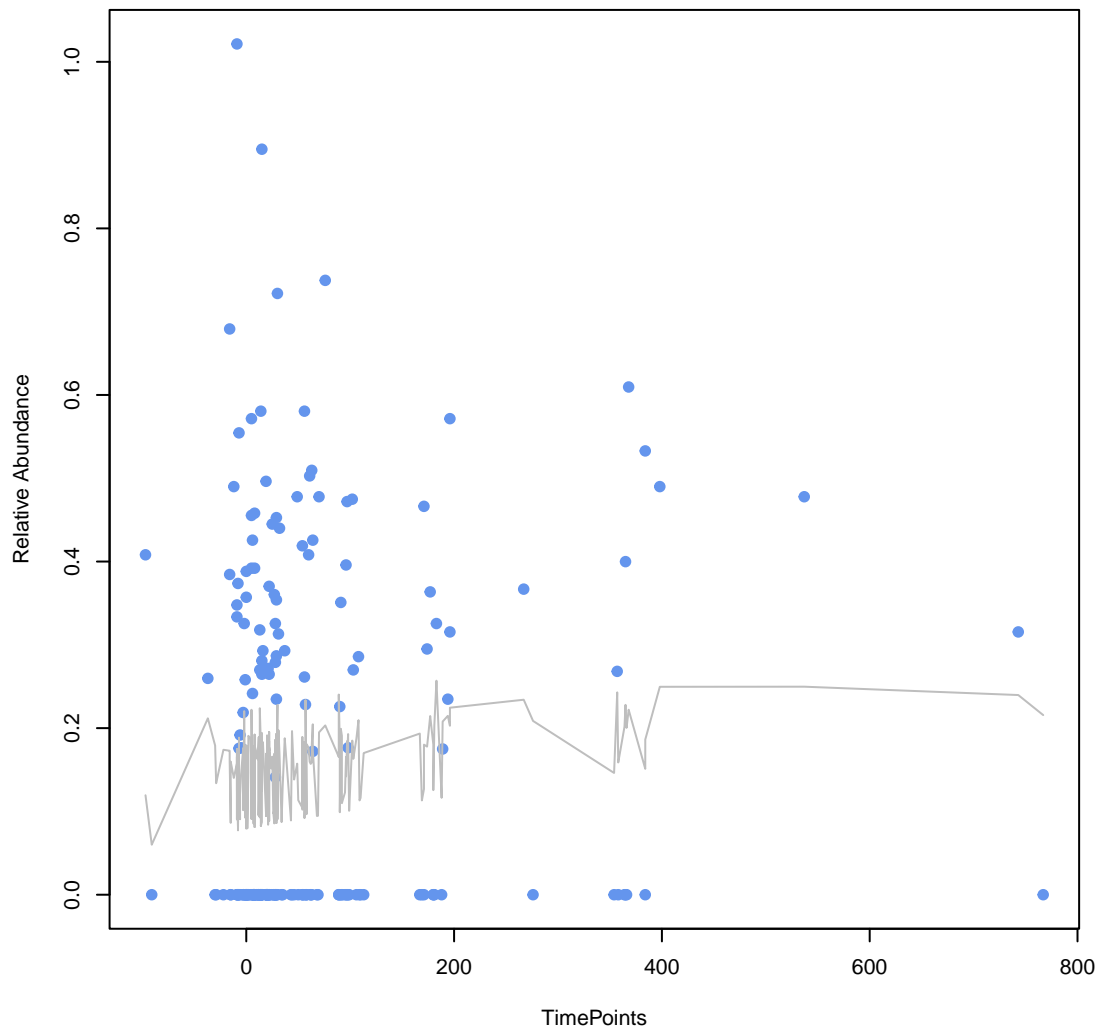
**RGI  
nimJ**  
ANOVA Pval: 0.000681



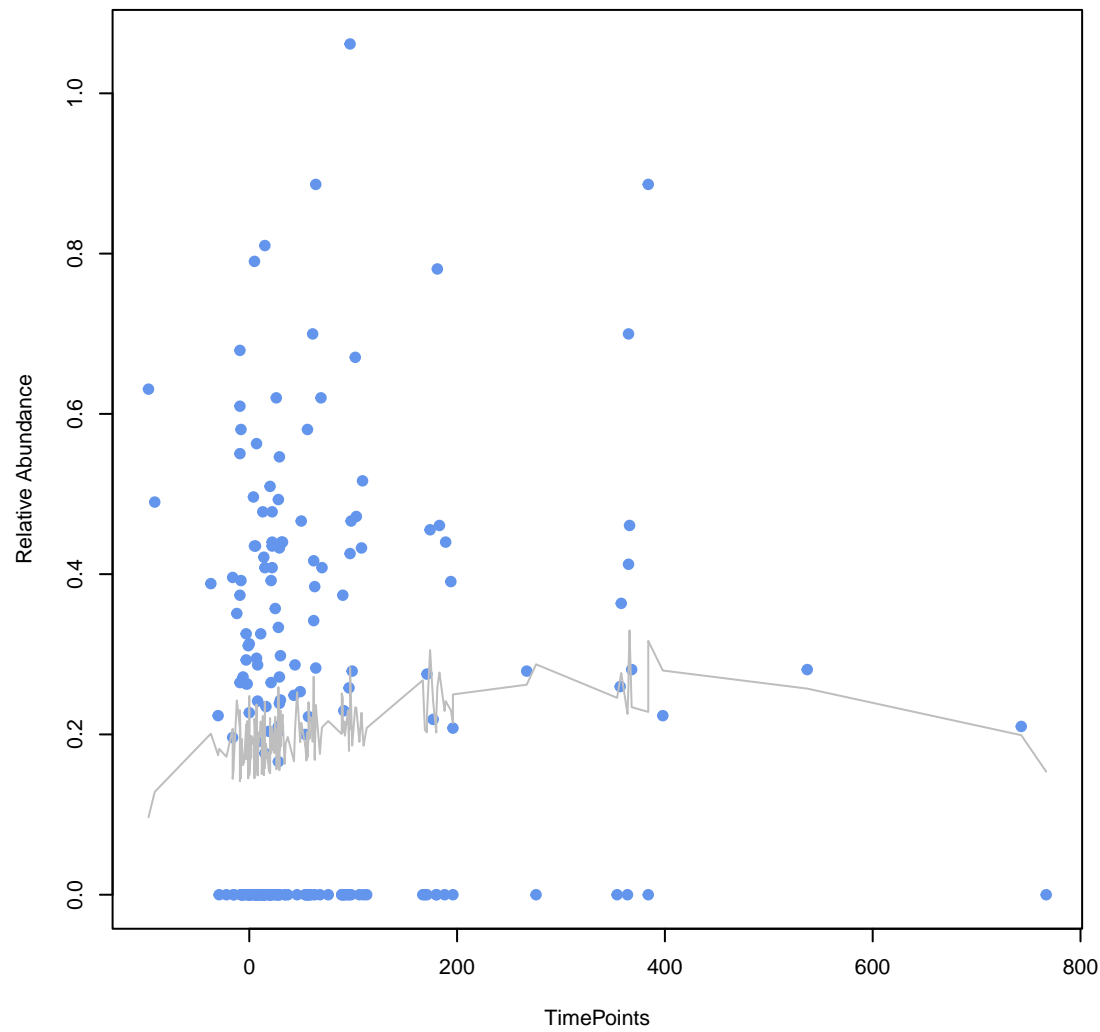
**RGI  
eptA**  
ANOVA Pval: 0.0221



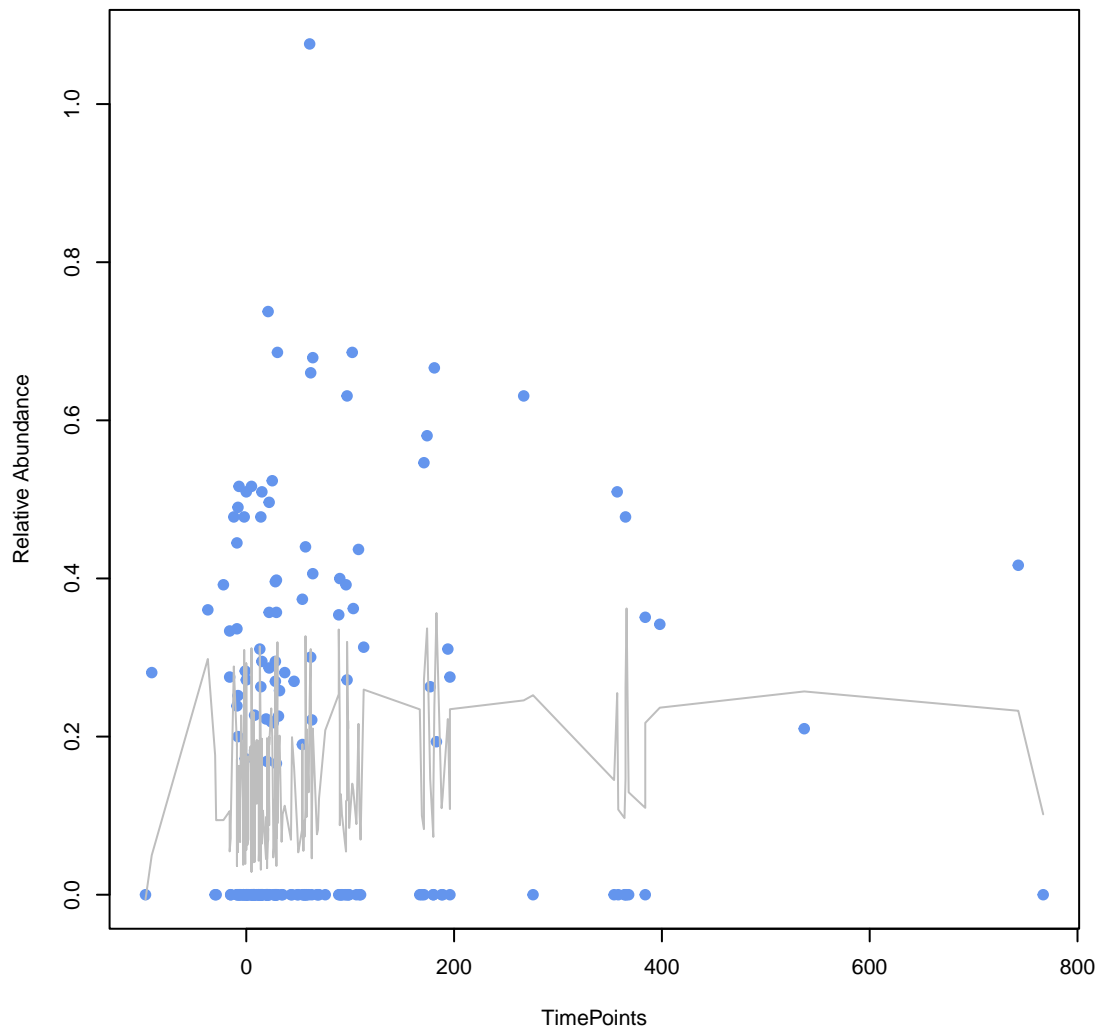
**RGI  
kdpE**  
ANOVA Pval: 0.52



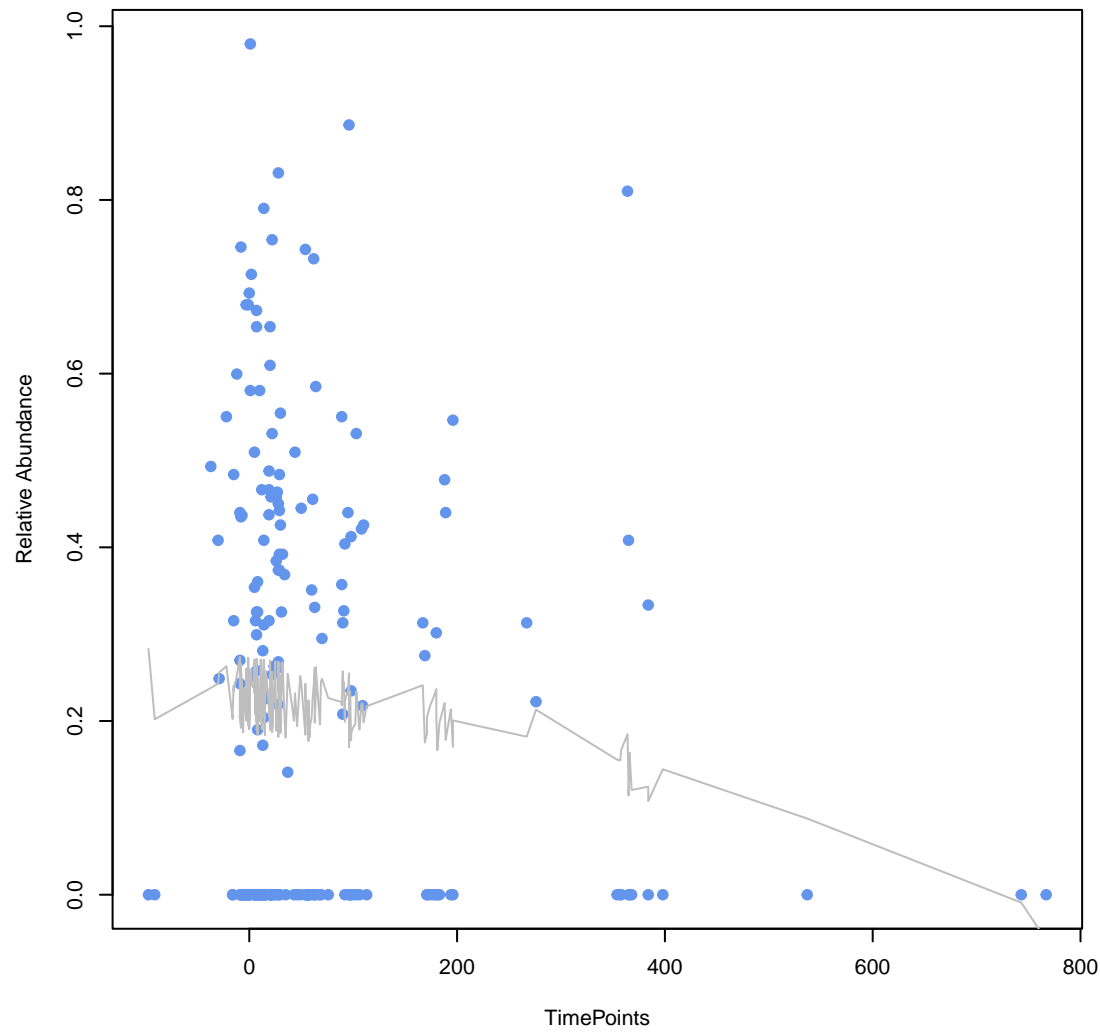
**RGI  
Escherichia coli mdxA**  
ANOVA Pval: 0.311

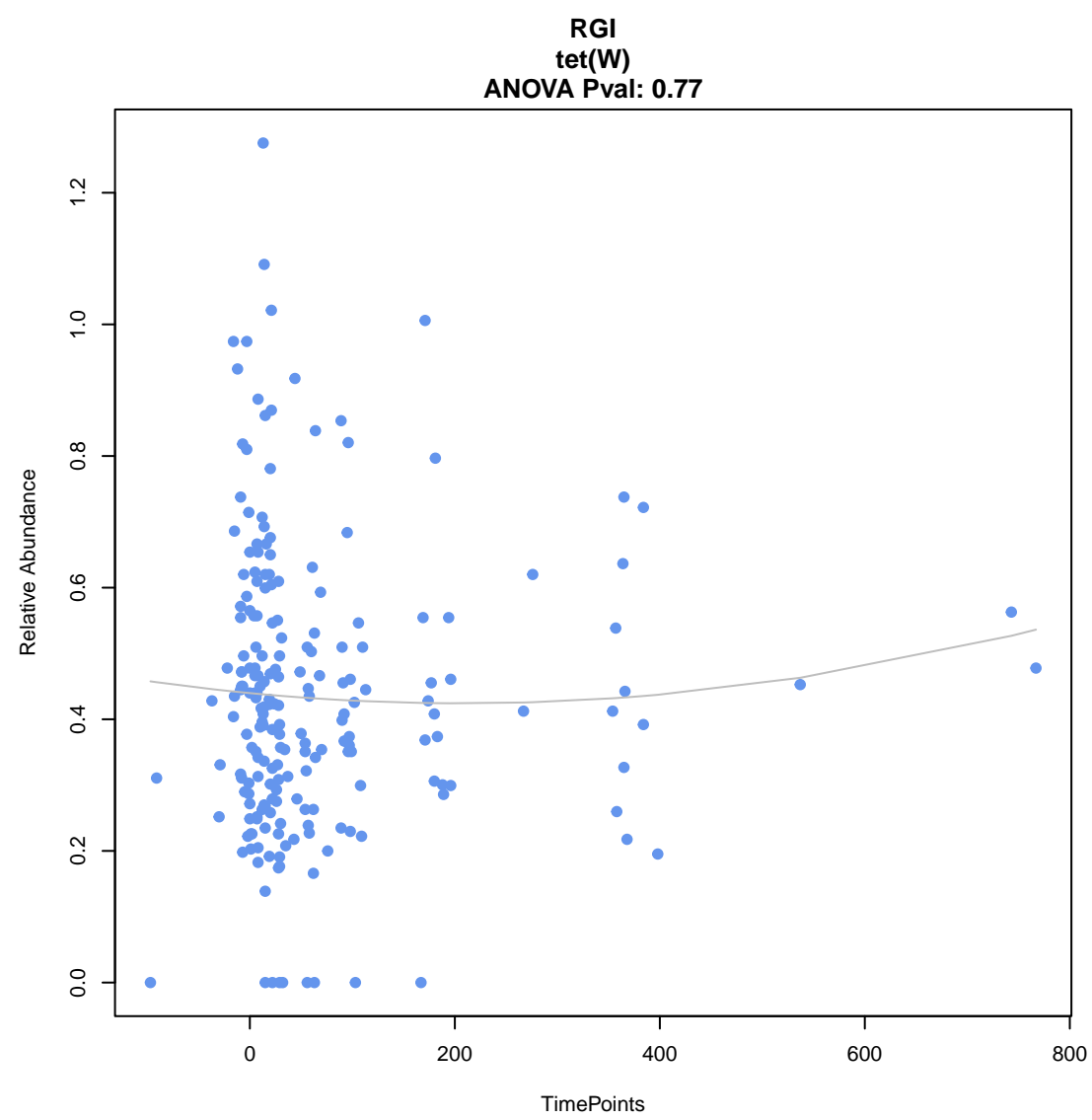
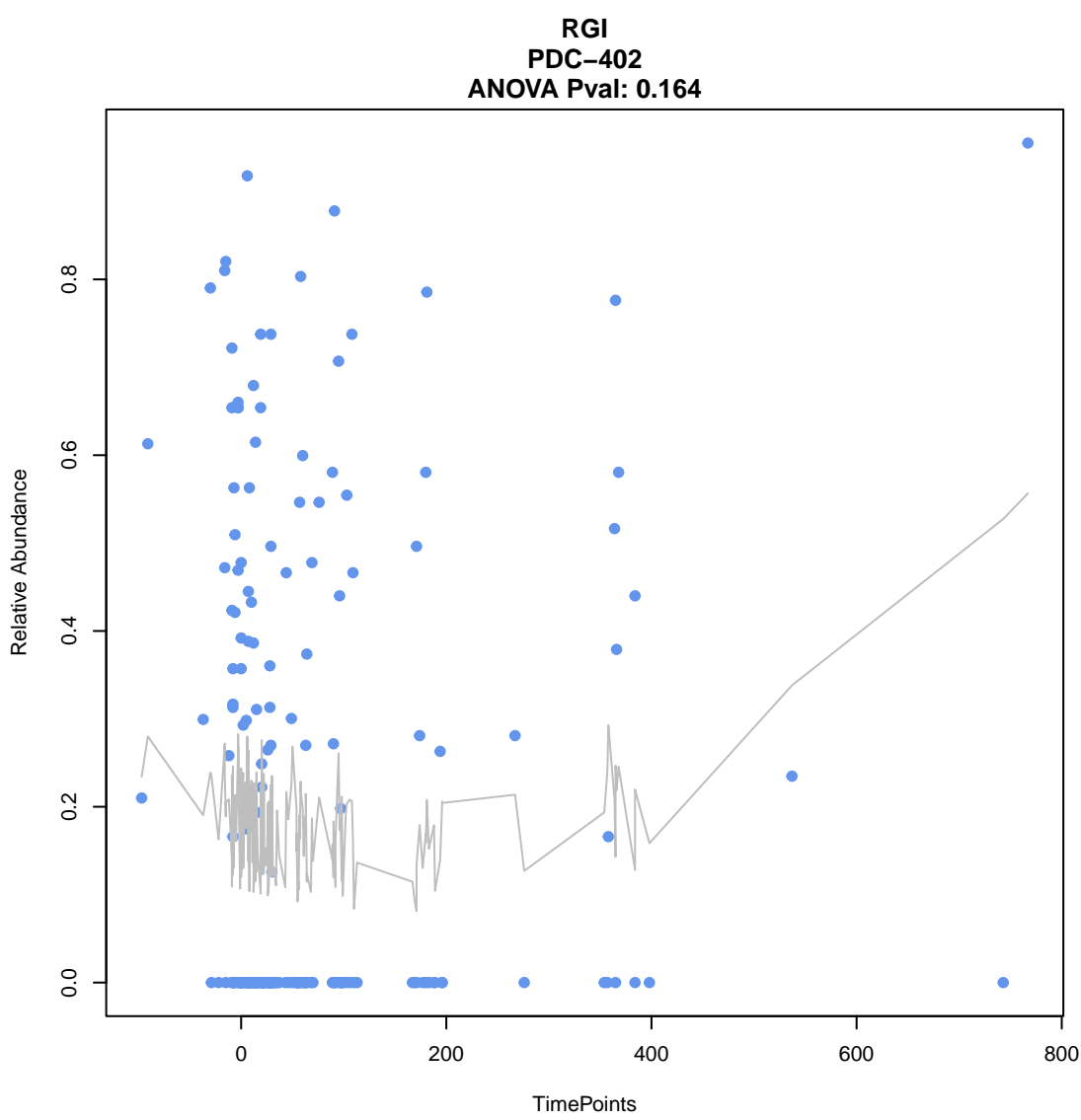
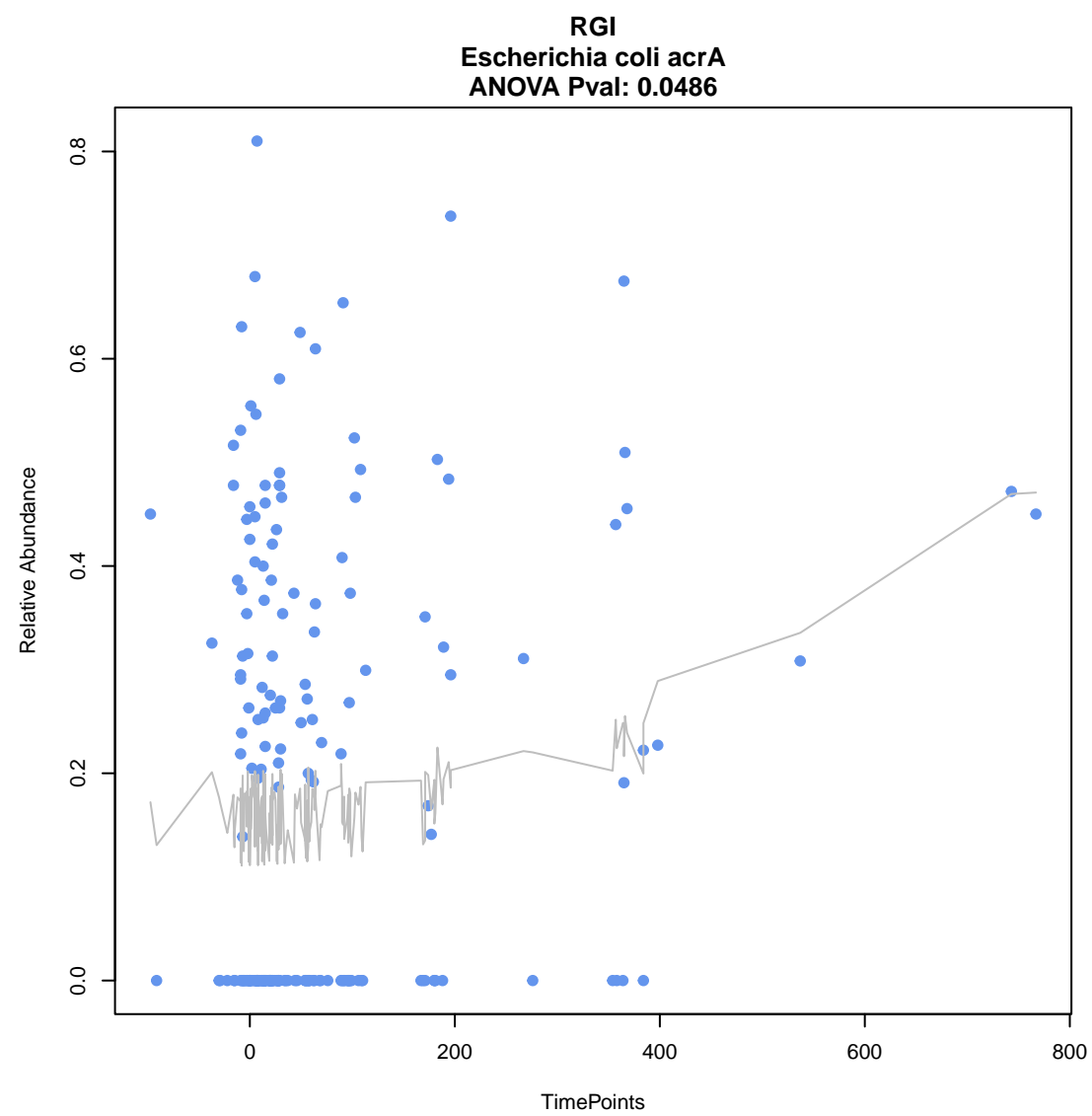
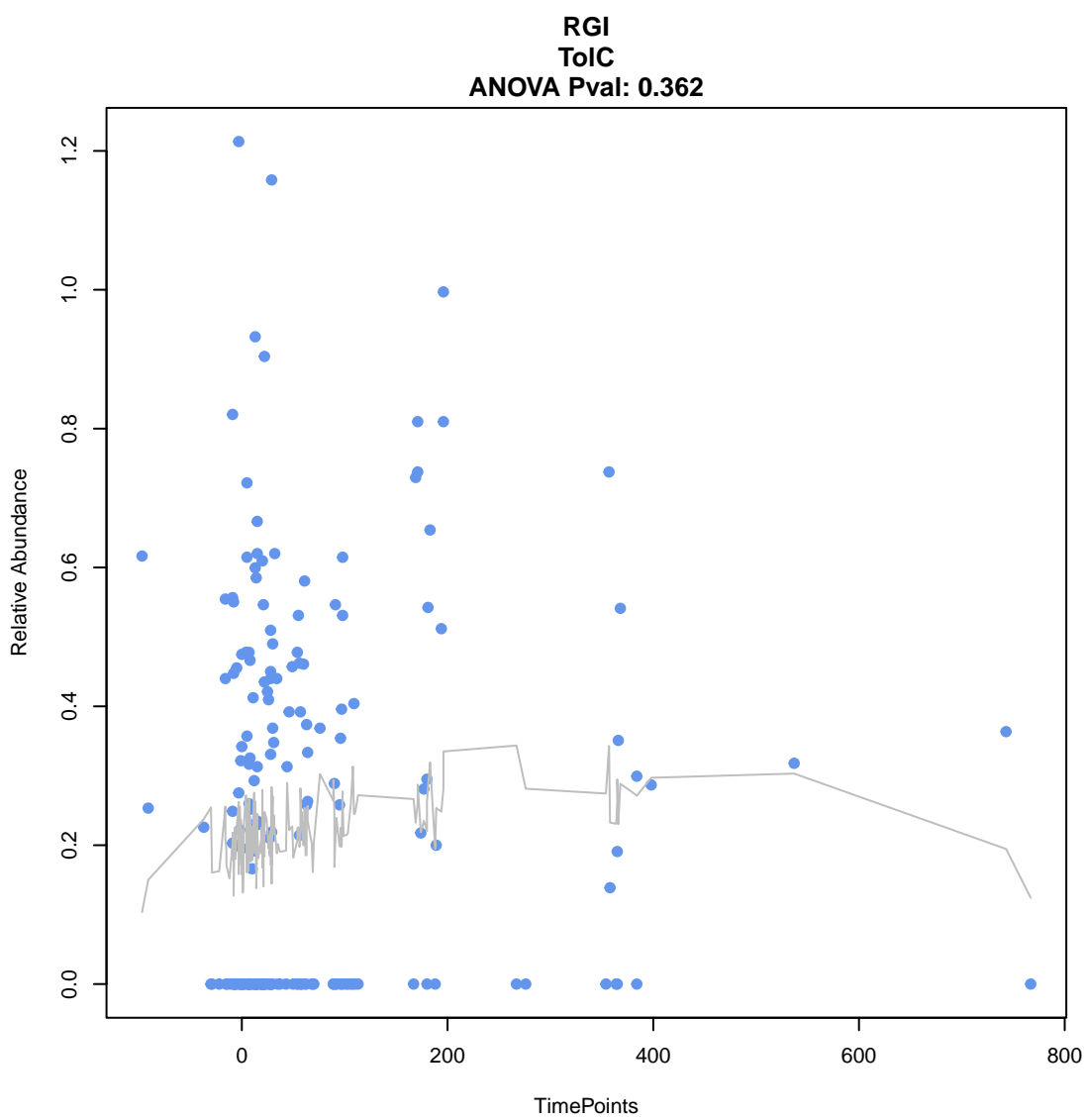
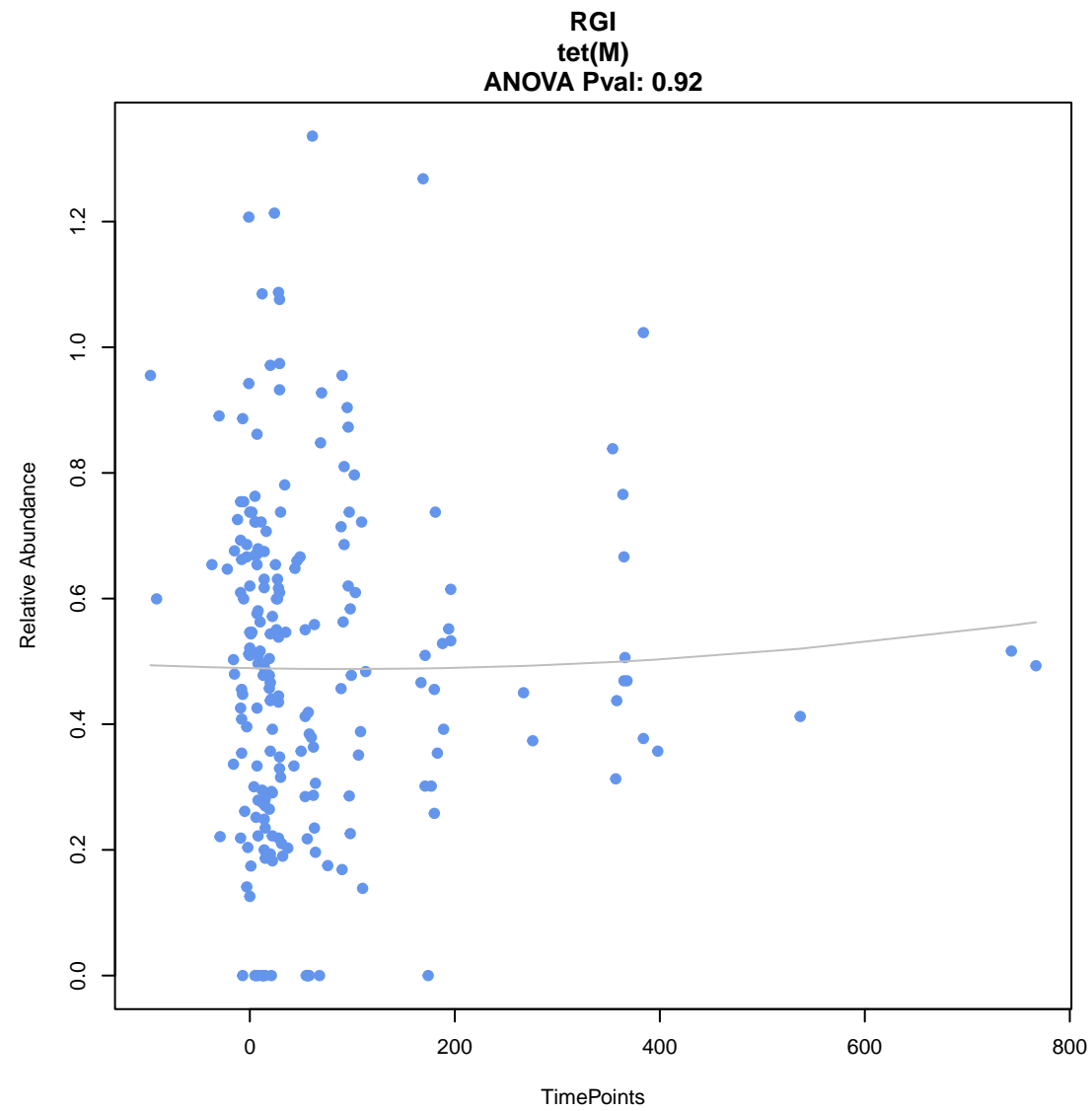
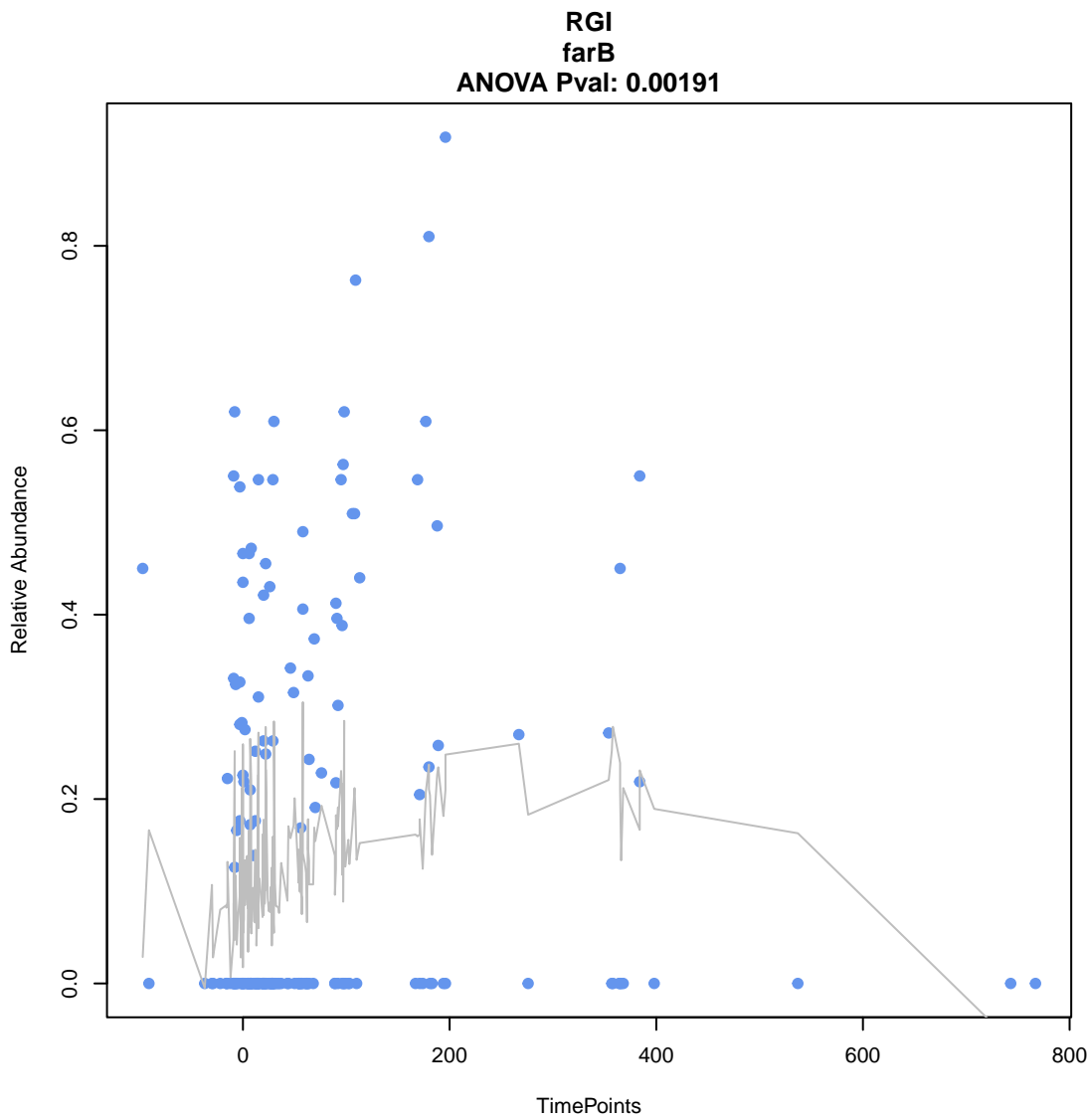


**RGI  
rsmA**  
ANOVA Pval: 0.326



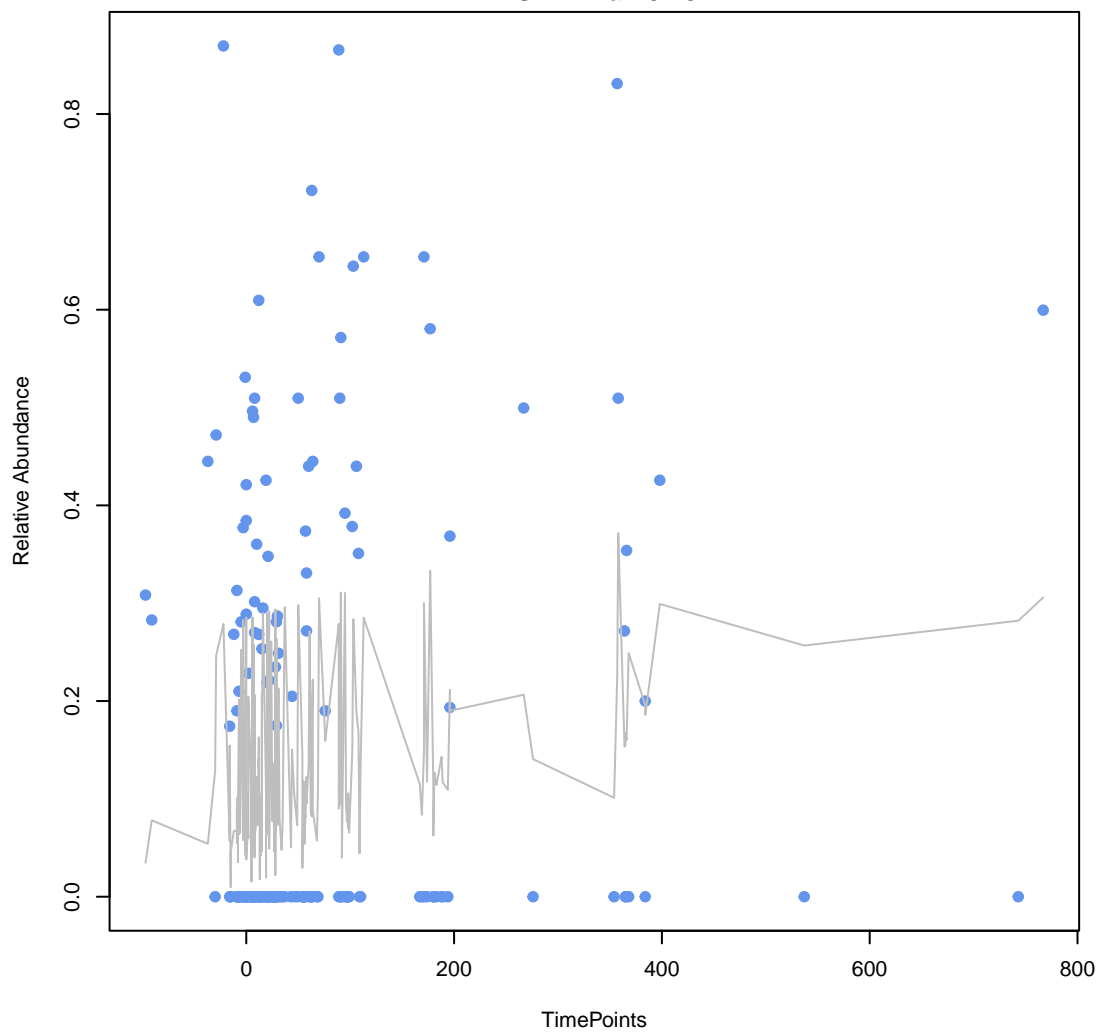
**RGI  
vanH gene in vanA cluster**  
ANOVA Pval: 0.159



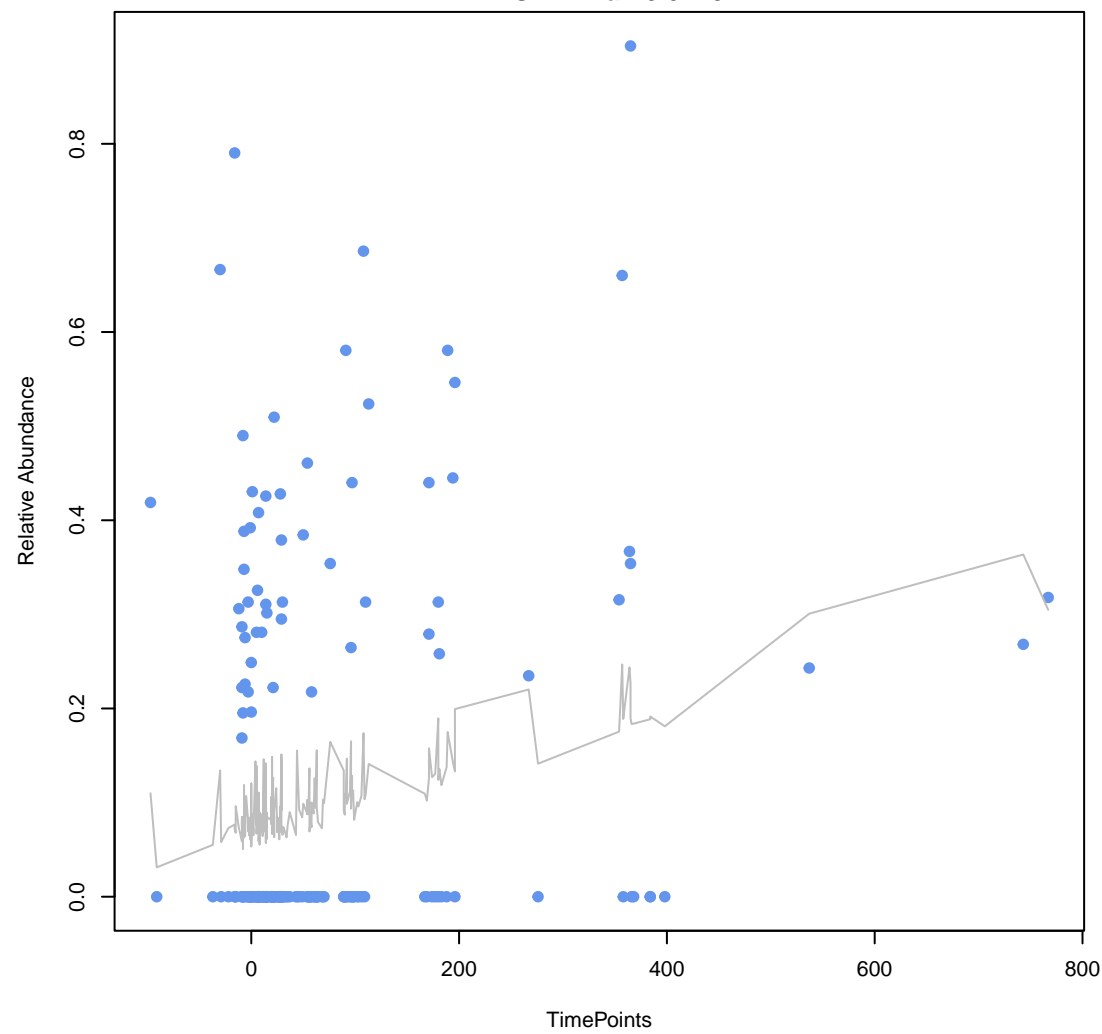




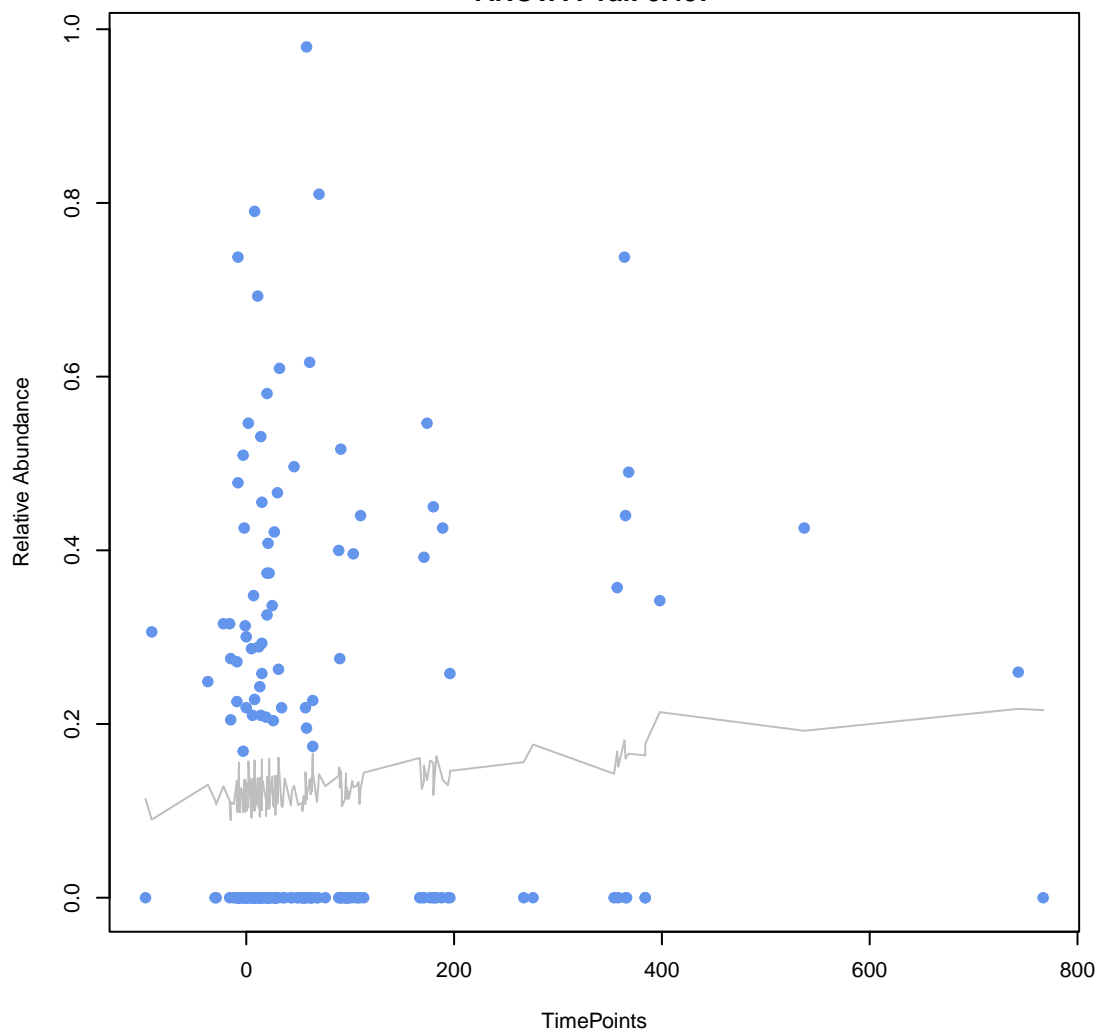
**RGI**  
**vanX gene in vanD cluster**  
**ANOVA Pval: 0.131**



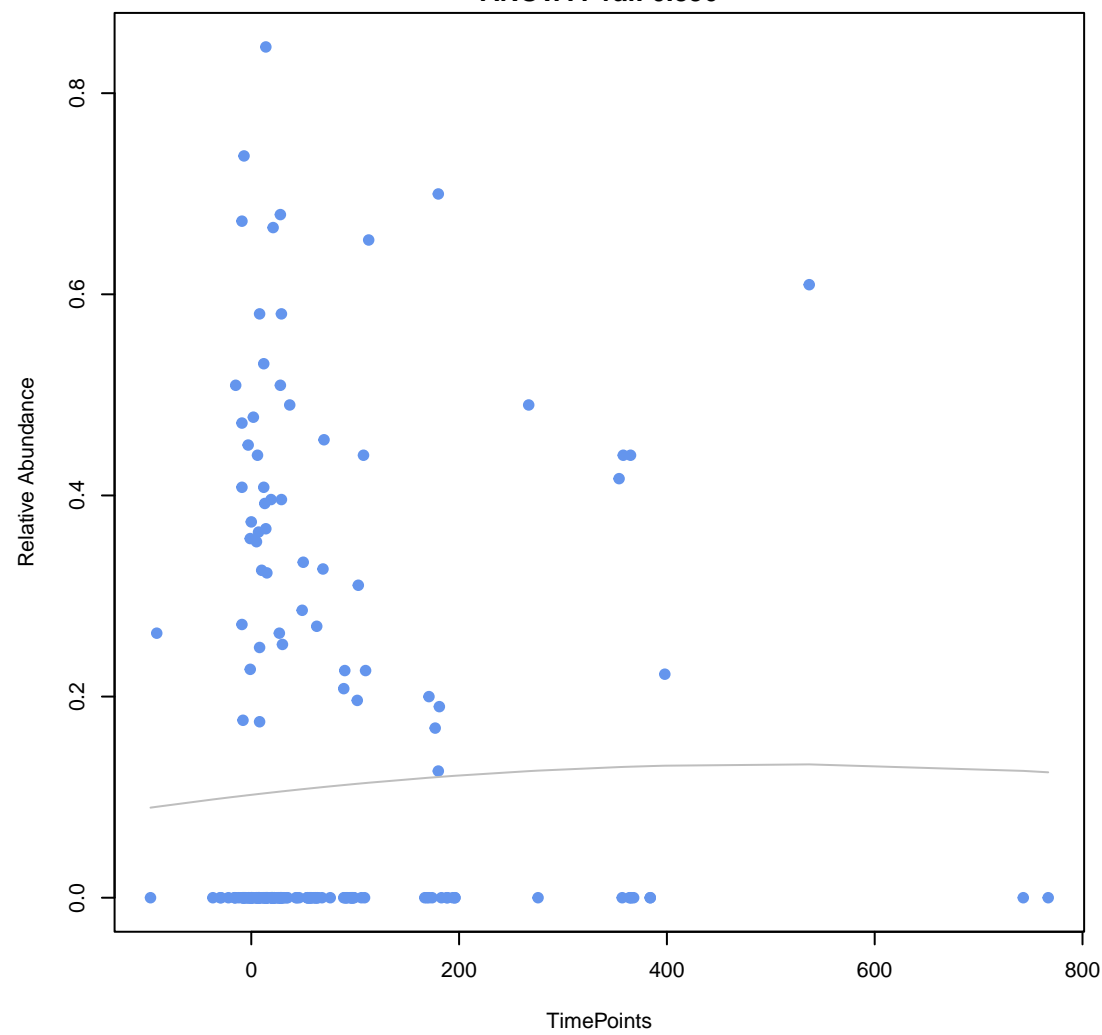
**RGI**  
***Streptomyces rimosus* otr(A)**  
**ANOVA Pval: 0.0219**



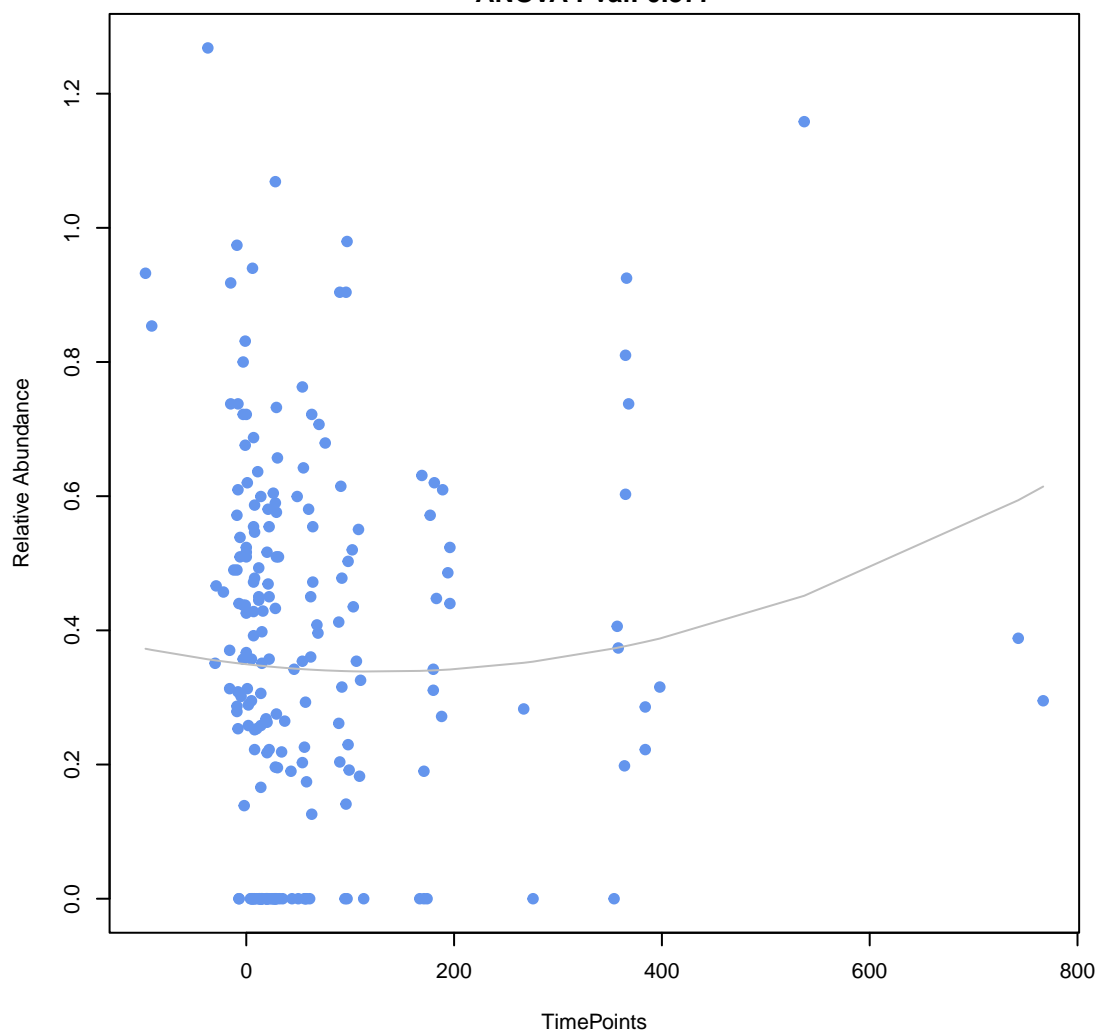
**RGI**  
**APH(3")-Ib**  
**ANOVA Pval: 0.497**



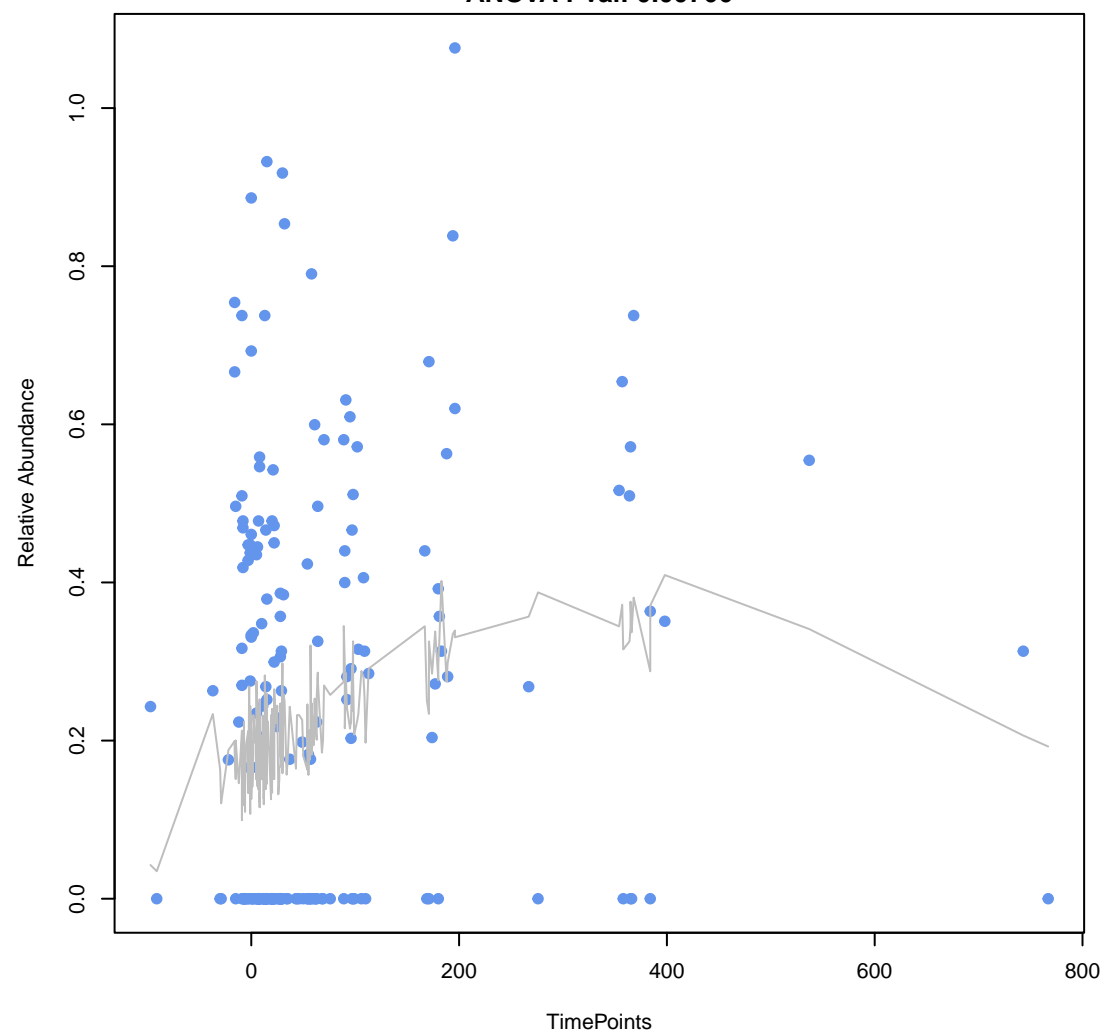
**RGI**  
**oleB**  
**ANOVA Pval: 0.836**

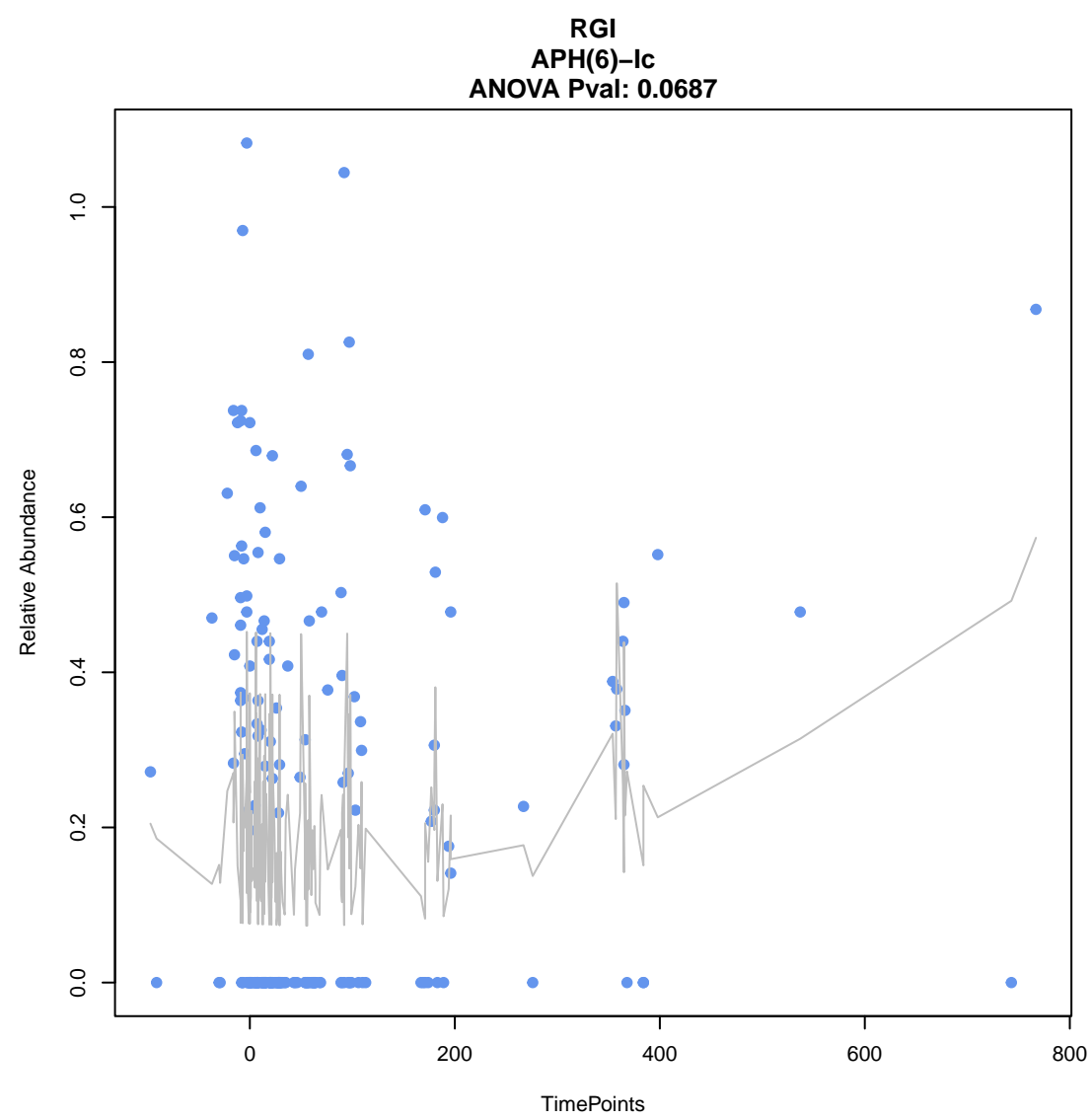
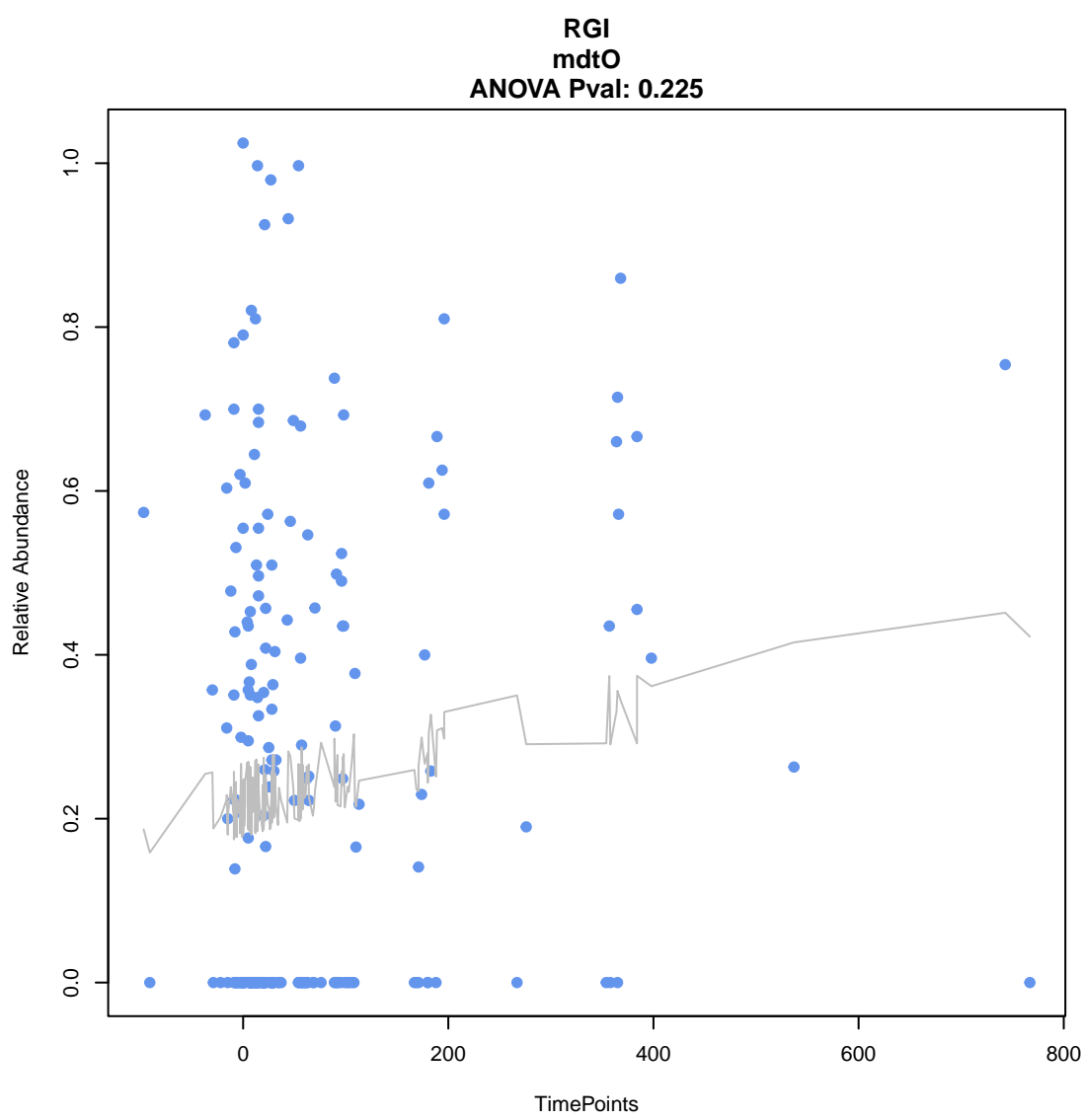
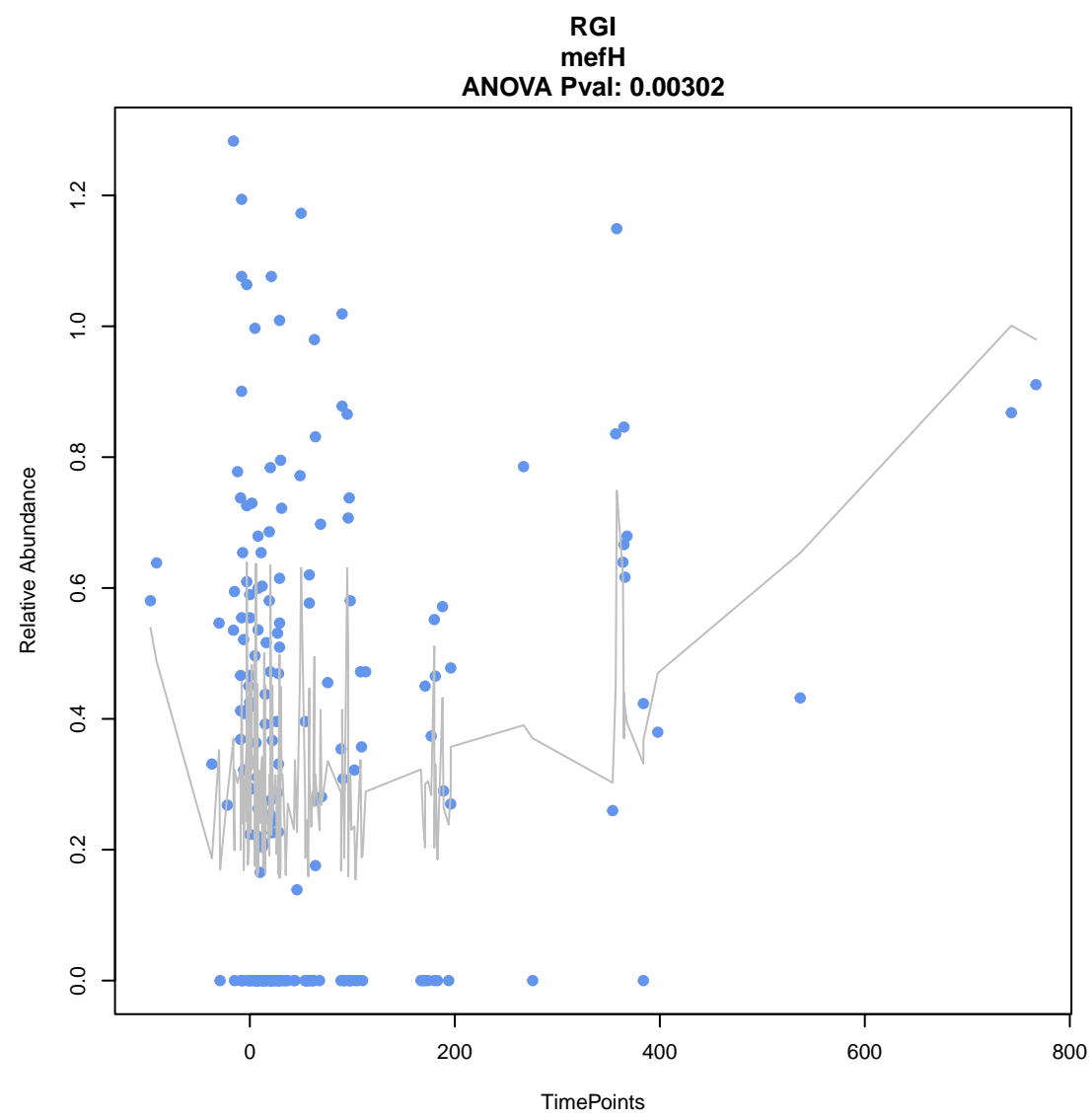
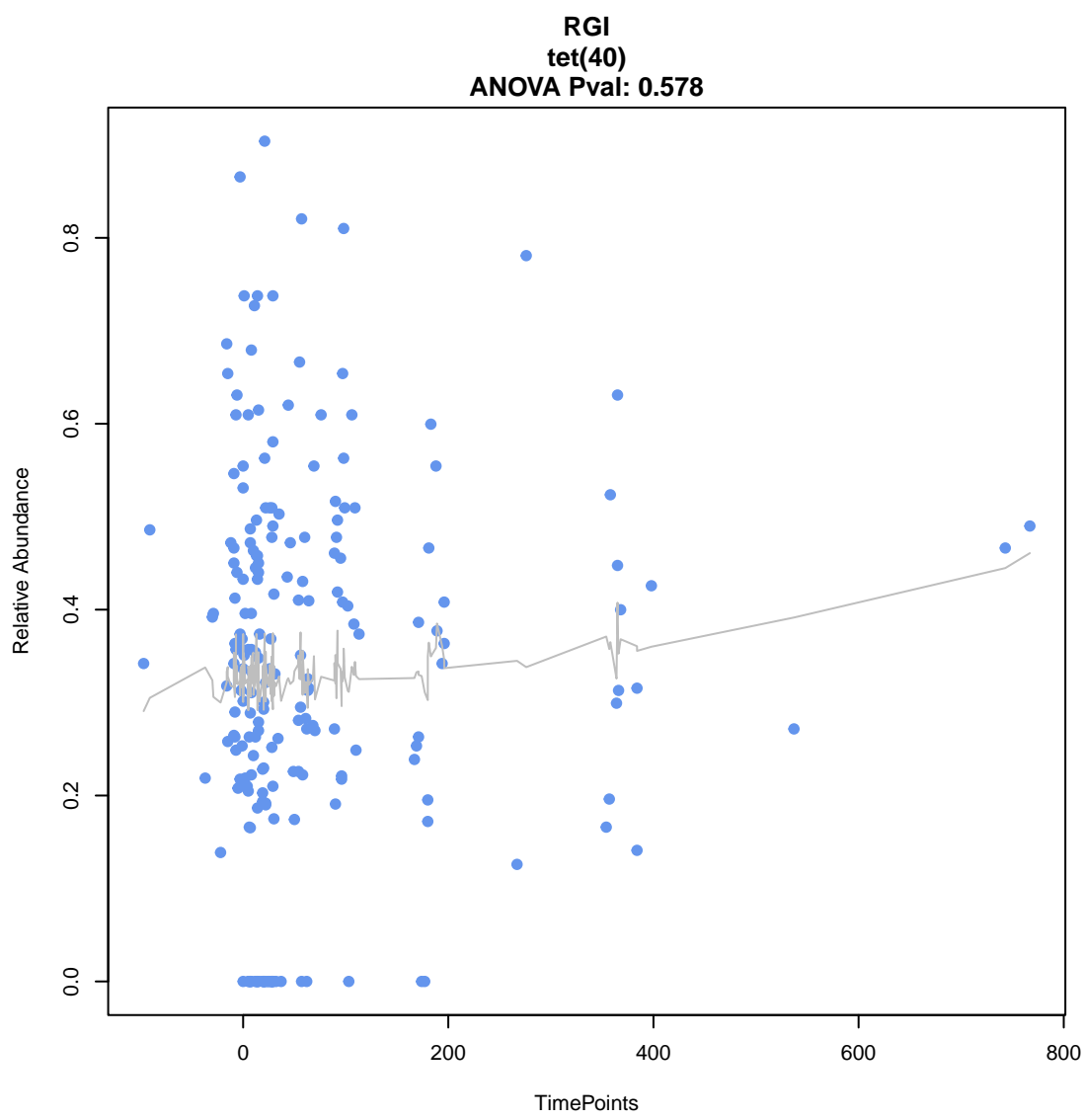
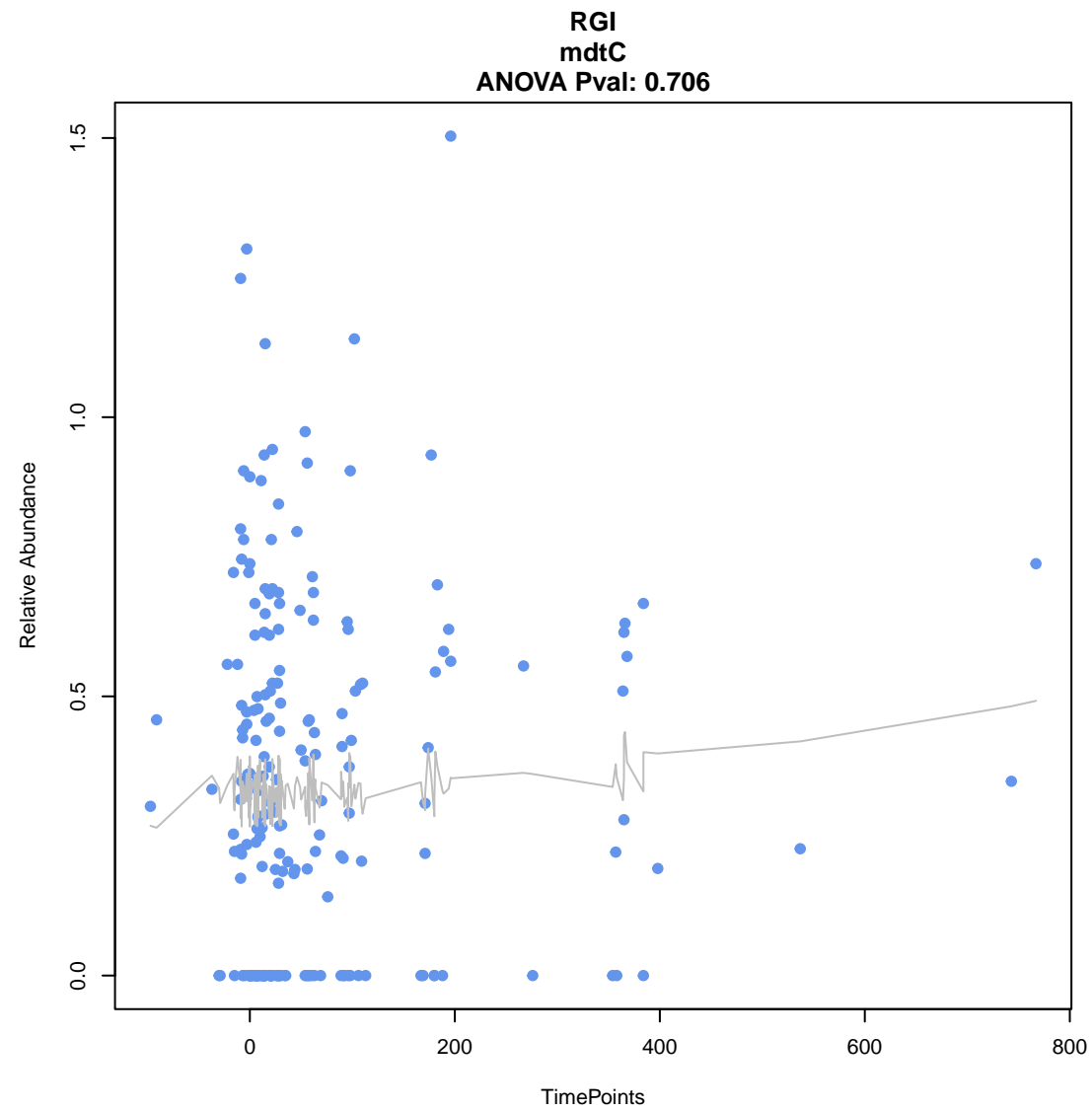
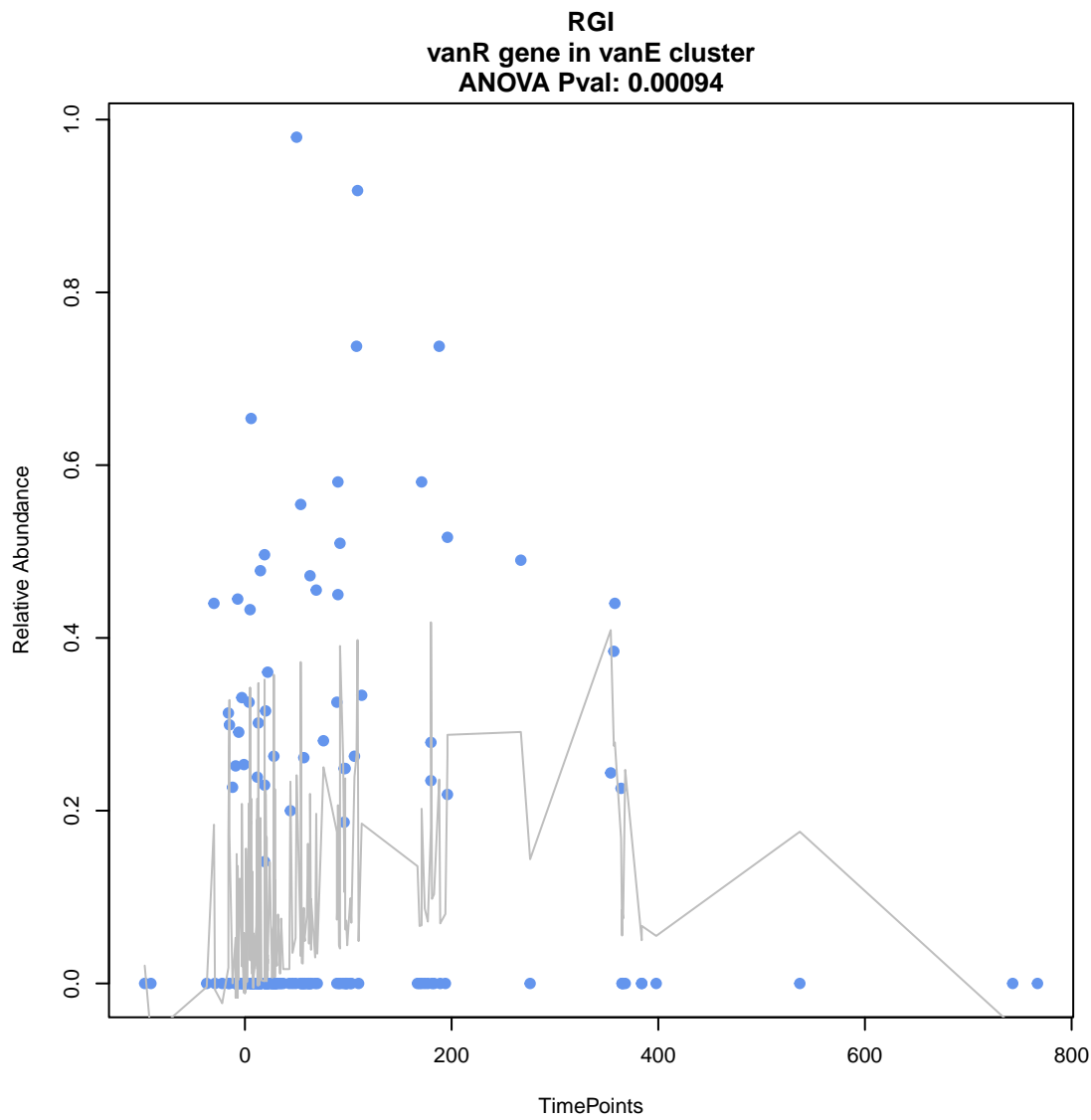


**RGI**  
**tetB(46)**  
**ANOVA Pval: 0.377**

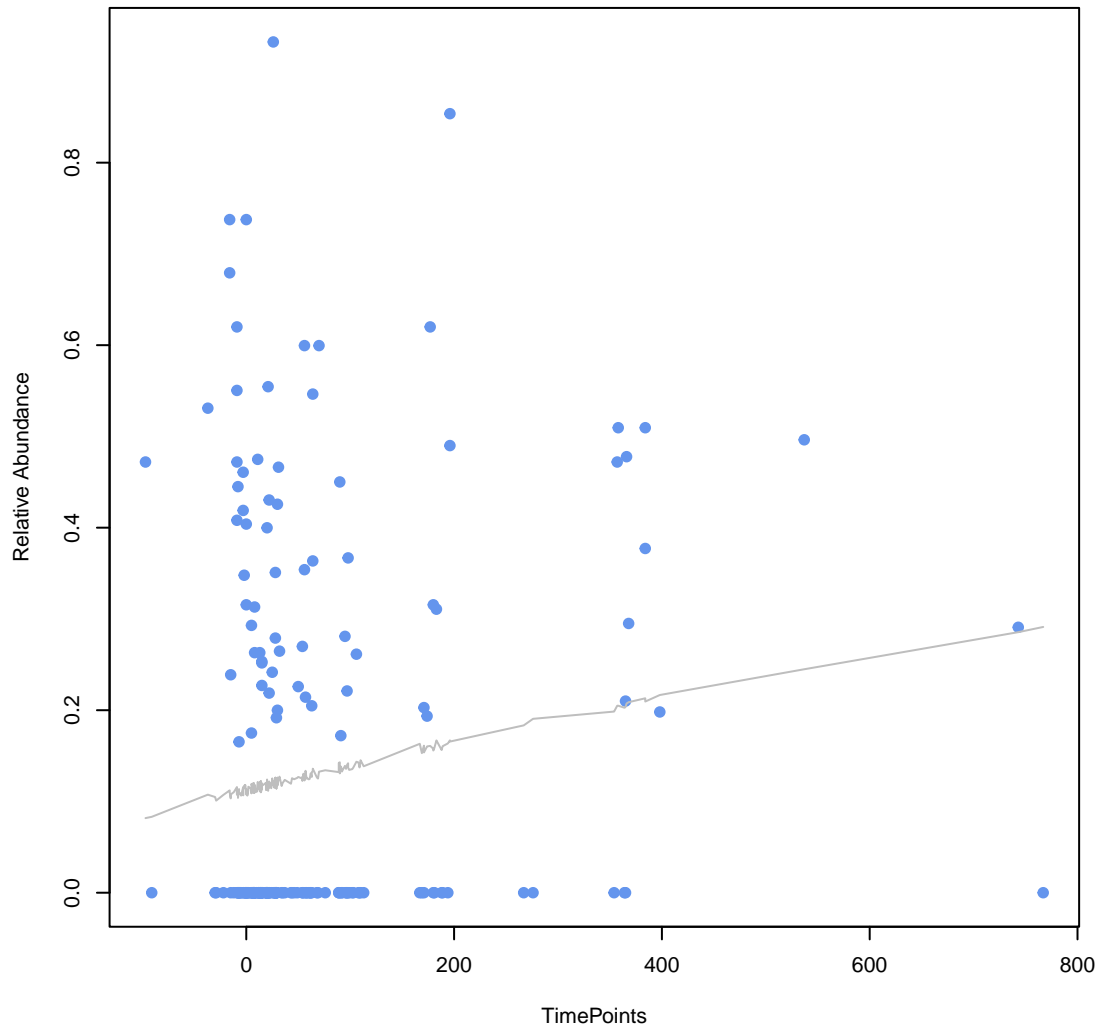


**RGI**  
**mdtG**  
**ANOVA Pval: 0.00766**

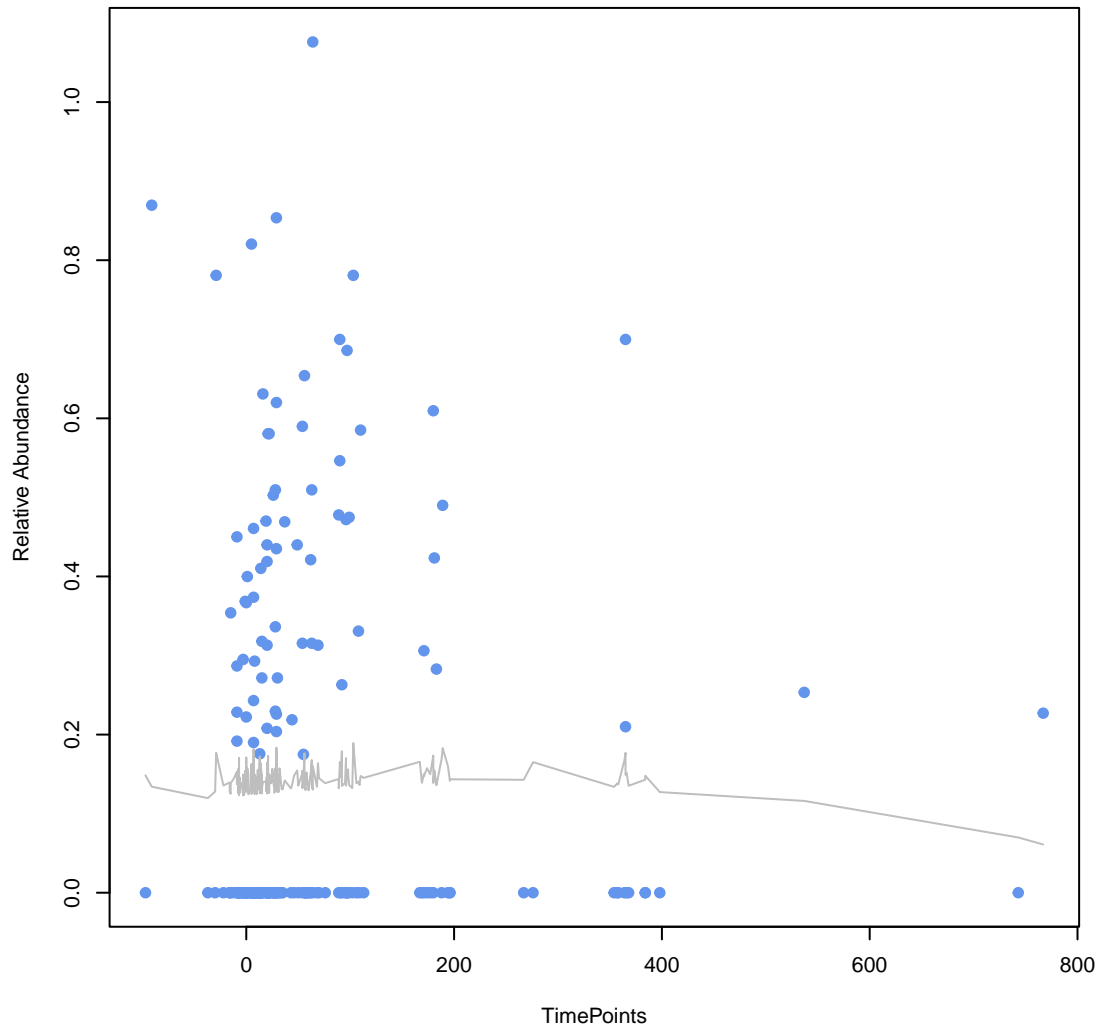




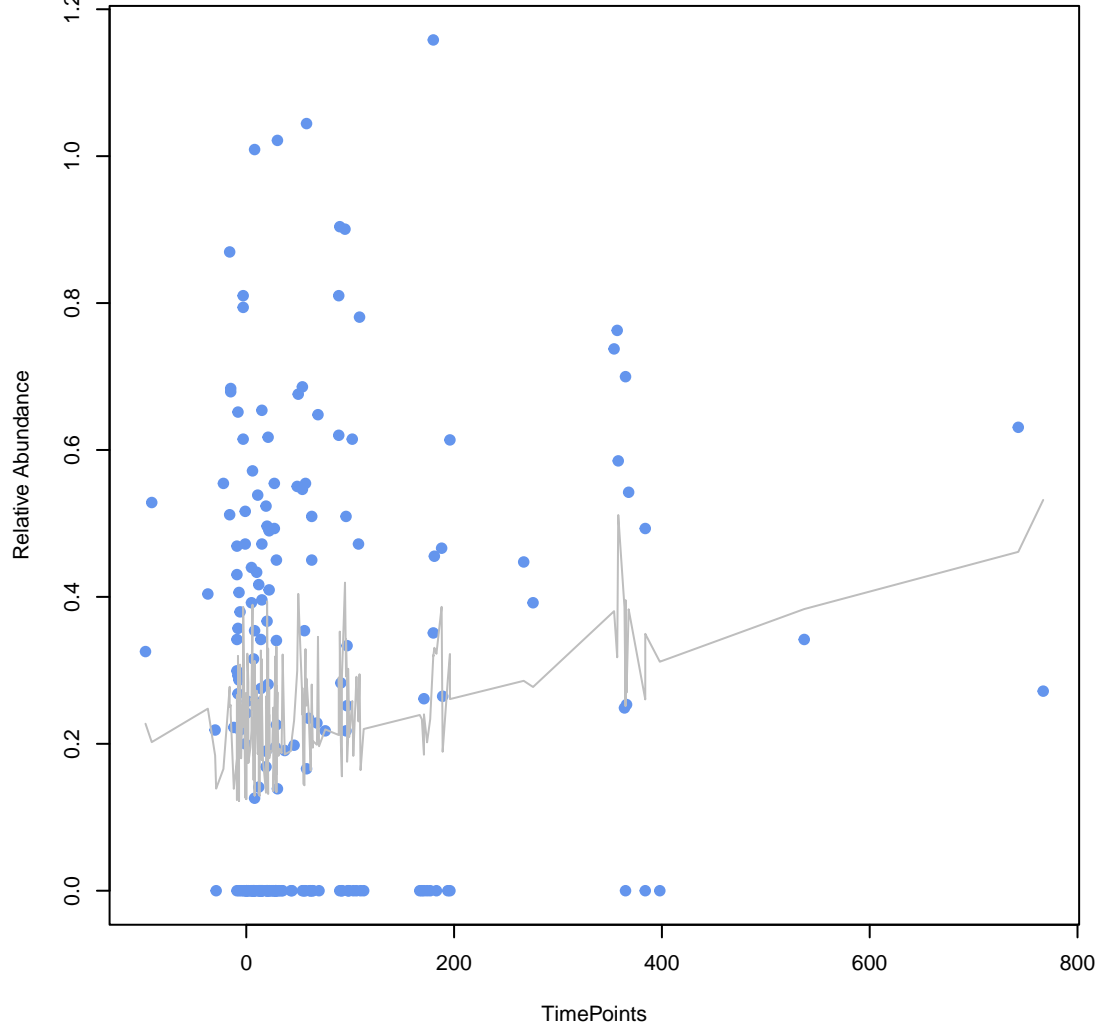
**RGI**  
**AcrS**  
ANOVA Pval: 0.117



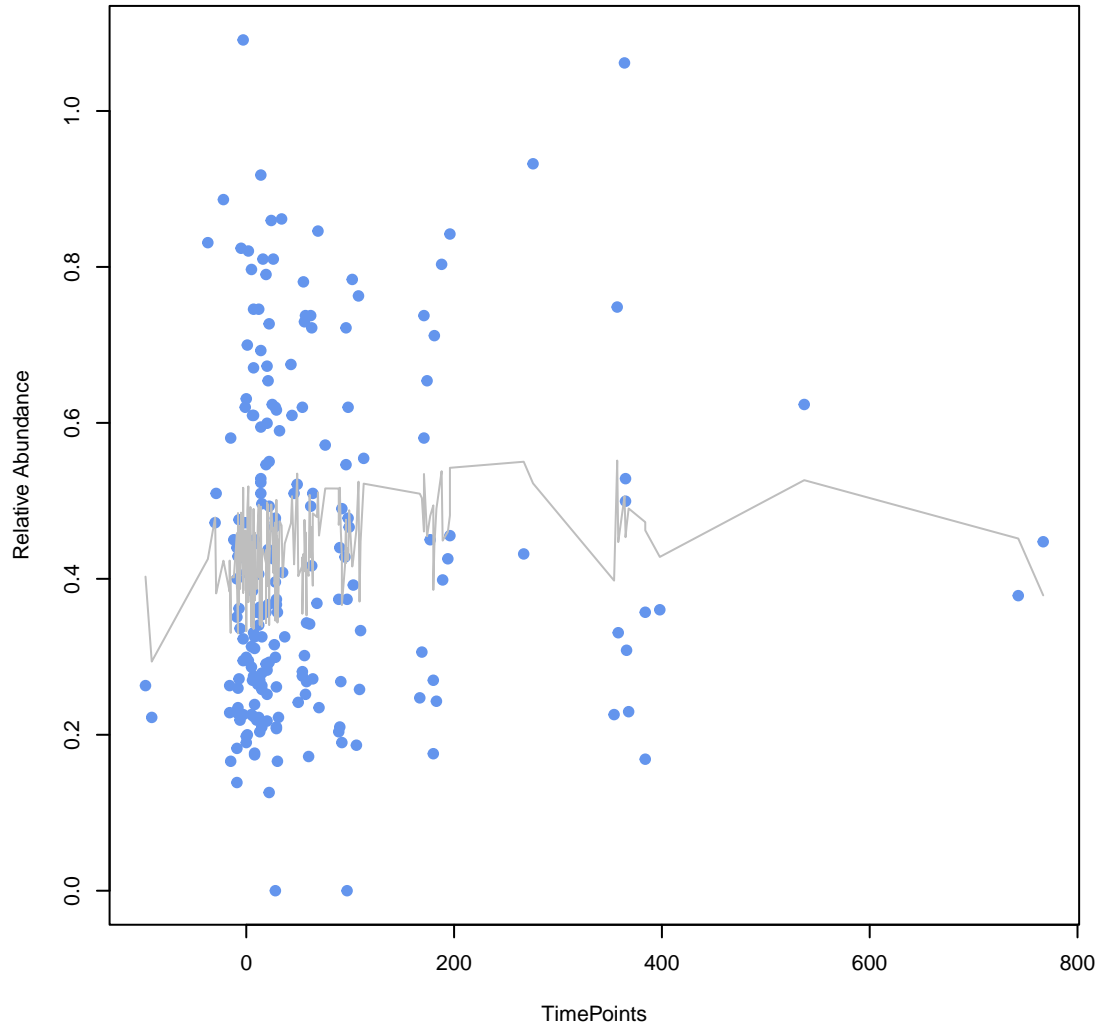
**RGI**  
**tetB(60)**  
ANOVA Pval: 0.885



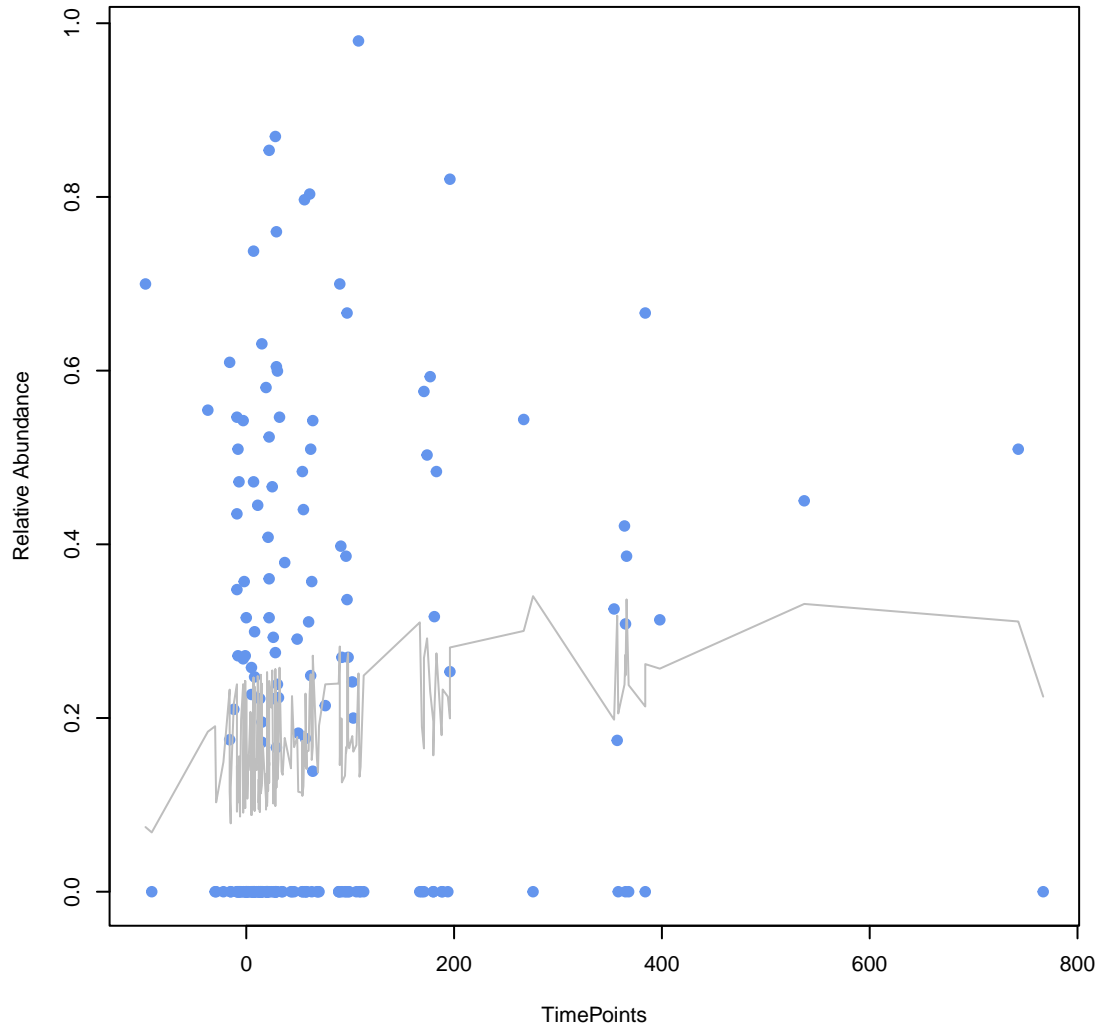
**RGI**  
**chrB**  
ANOVA Pval: 0.0871



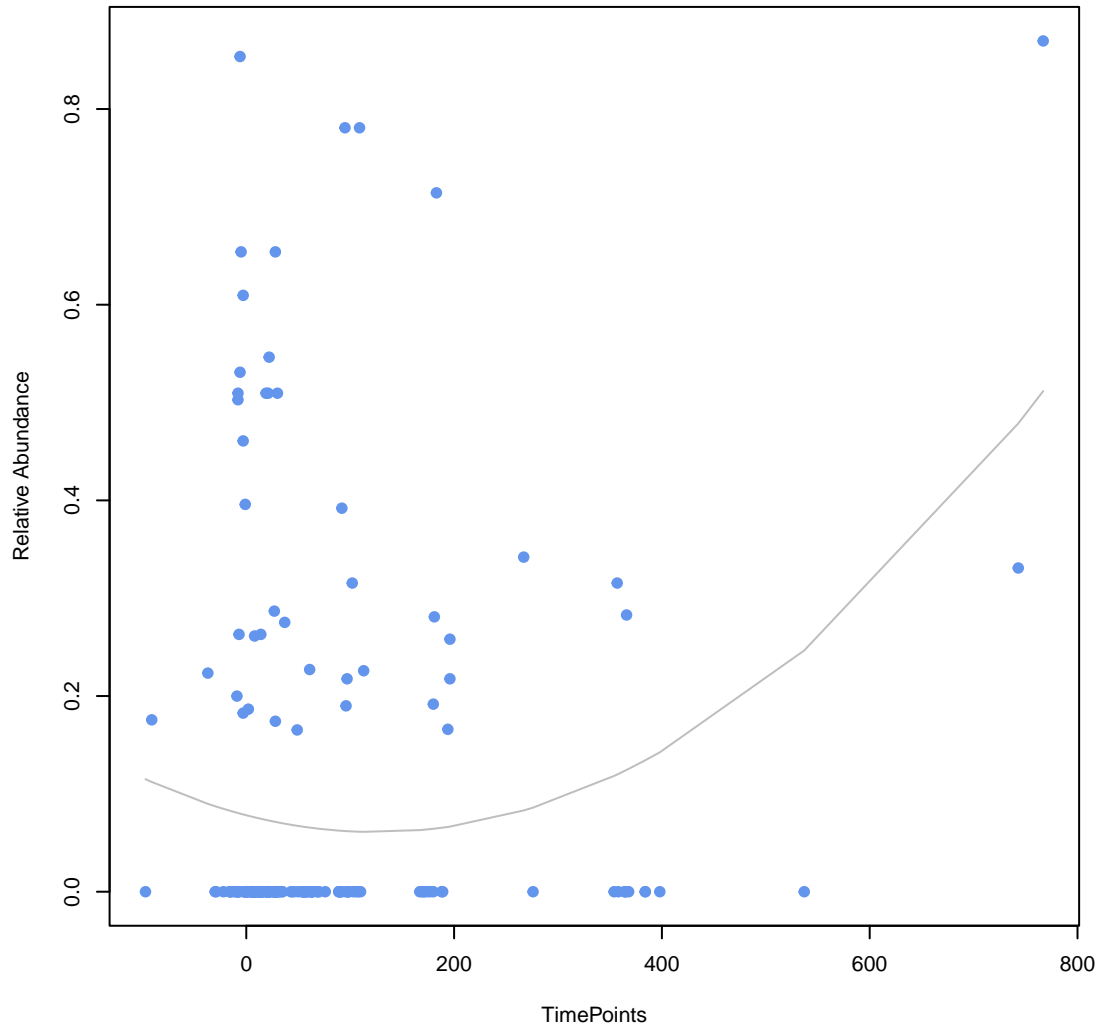
**RGI**  
**tet(O)**  
ANOVA Pval: 0.351



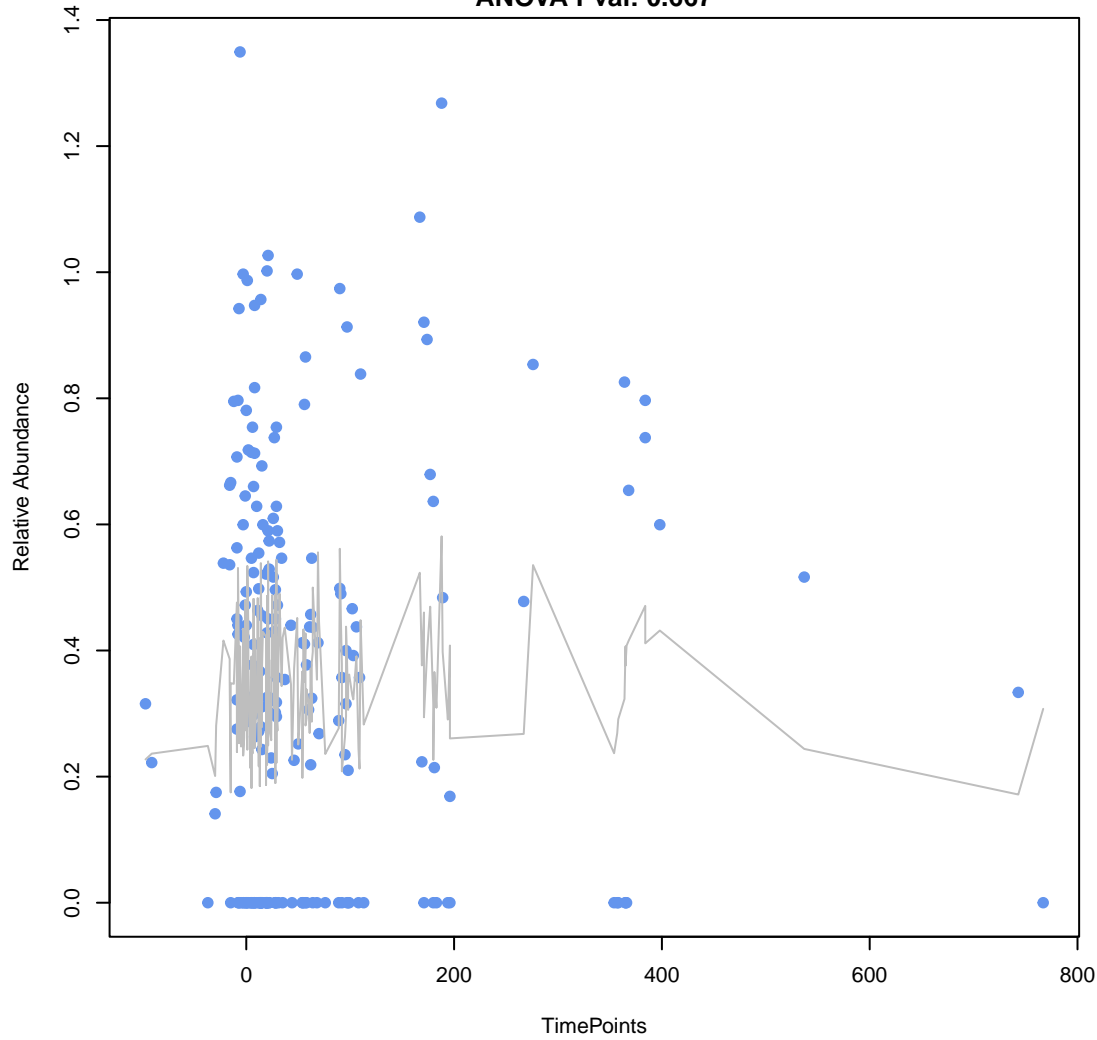
**RGI**  
**emrB**  
ANOVA Pval: 0.129



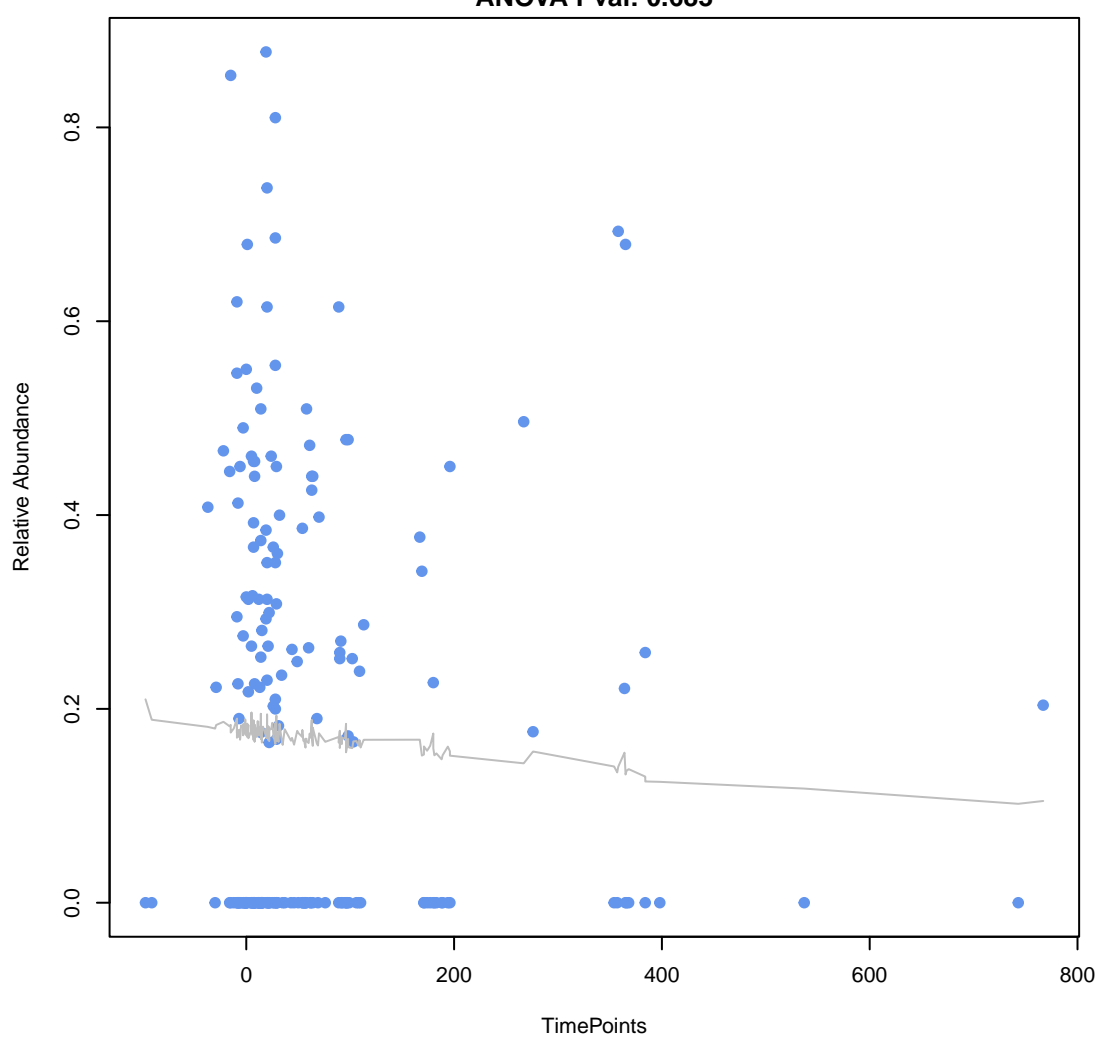
**RGI**  
**adeA**  
ANOVA Pval: 0.00166



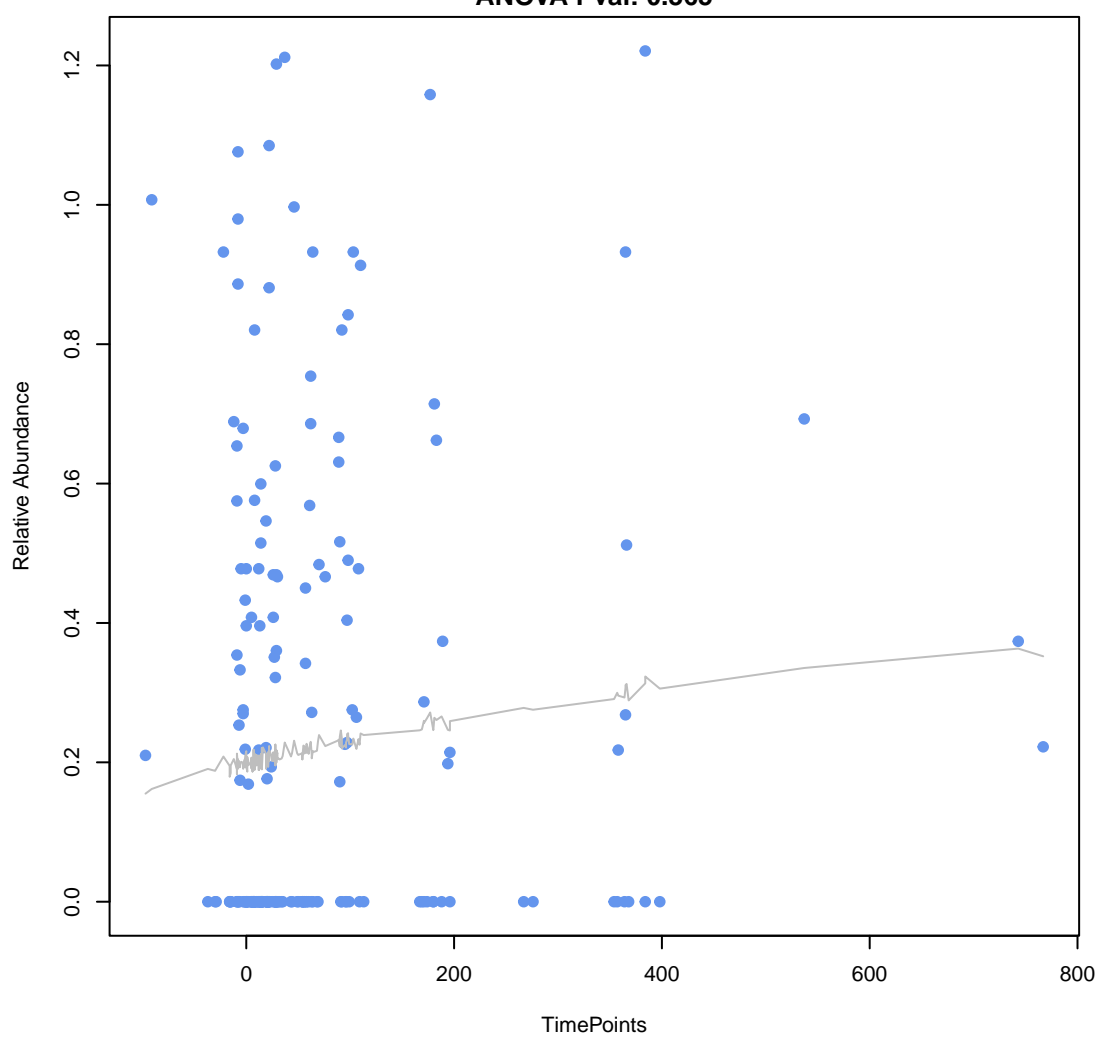
**RGI**  
**ImrD**  
**ANOVA Pval: 0.667**



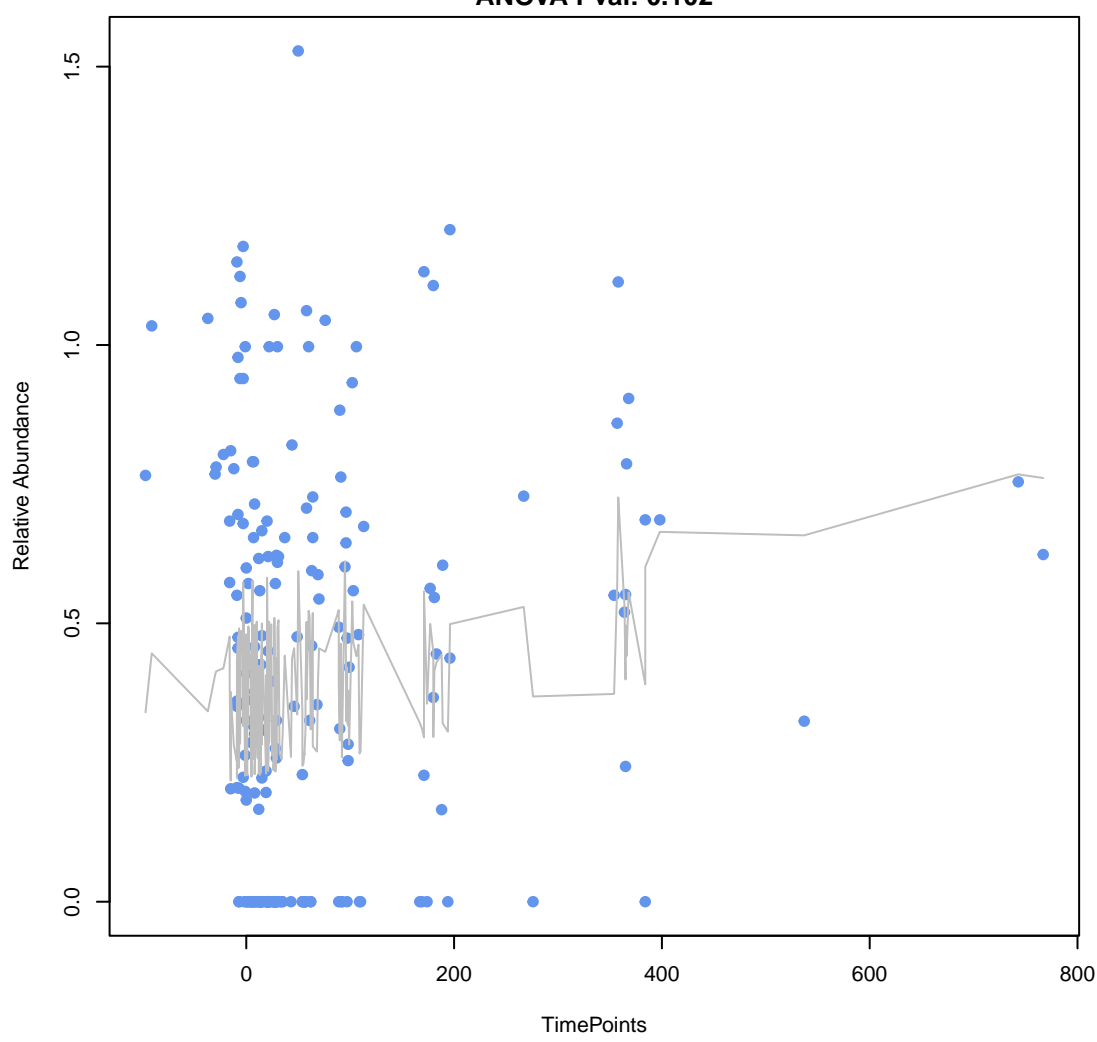
**RGI**  
**vanX gene in vanA cluster**  
**ANOVA Pval: 0.683**



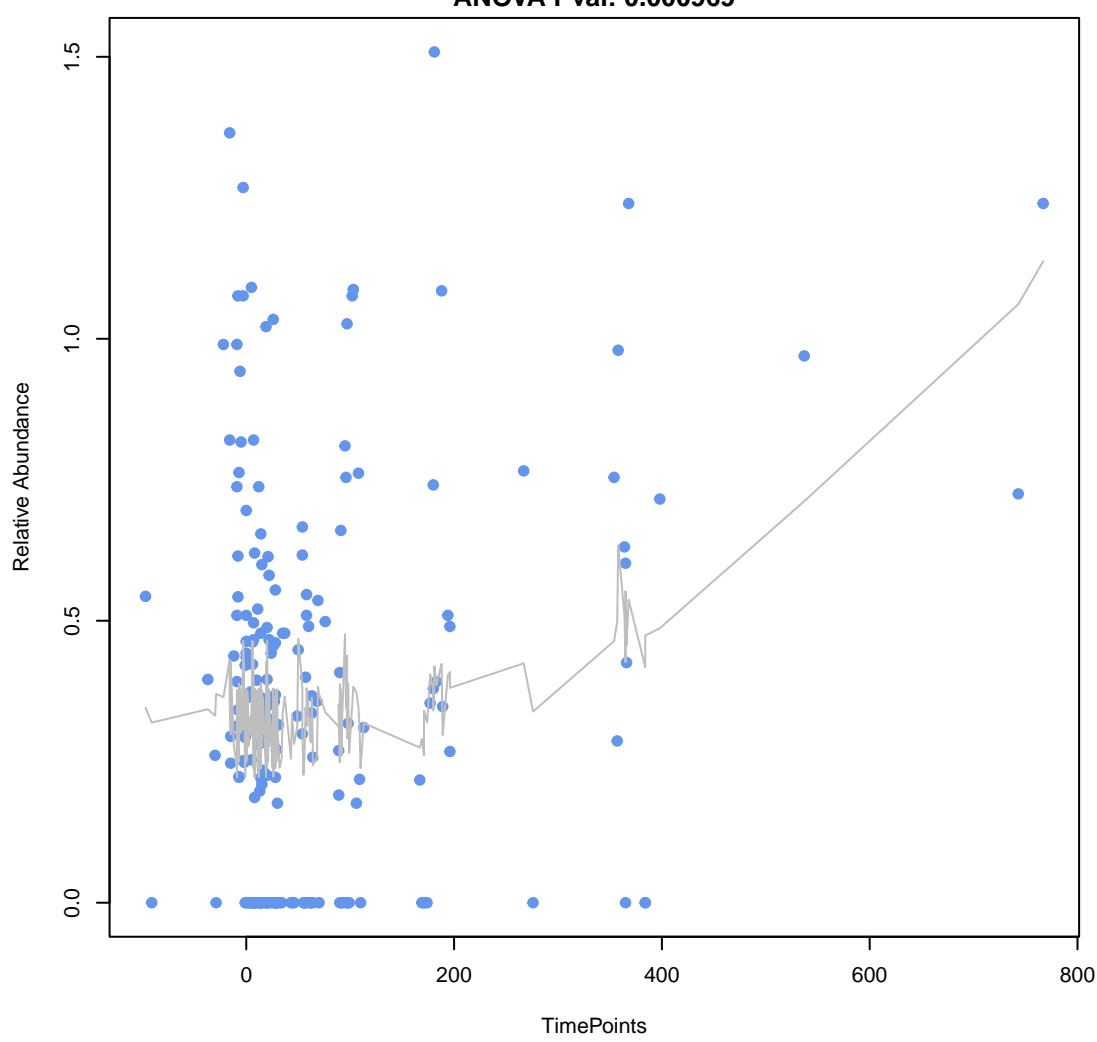
**RGI**  
**oqxB**  
**ANOVA Pval: 0.365**



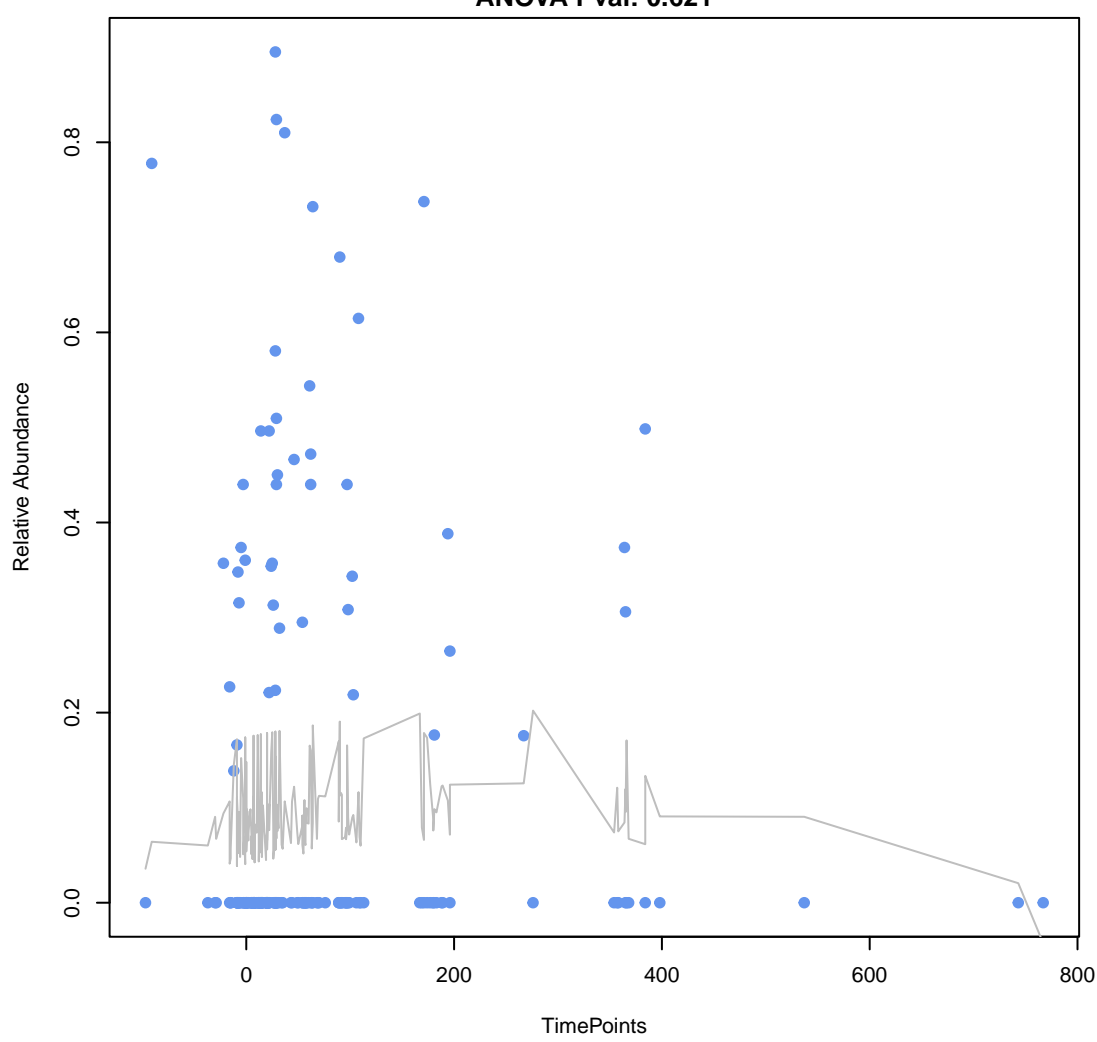
**RGI**  
**vanI**  
**ANOVA Pval: 0.102**



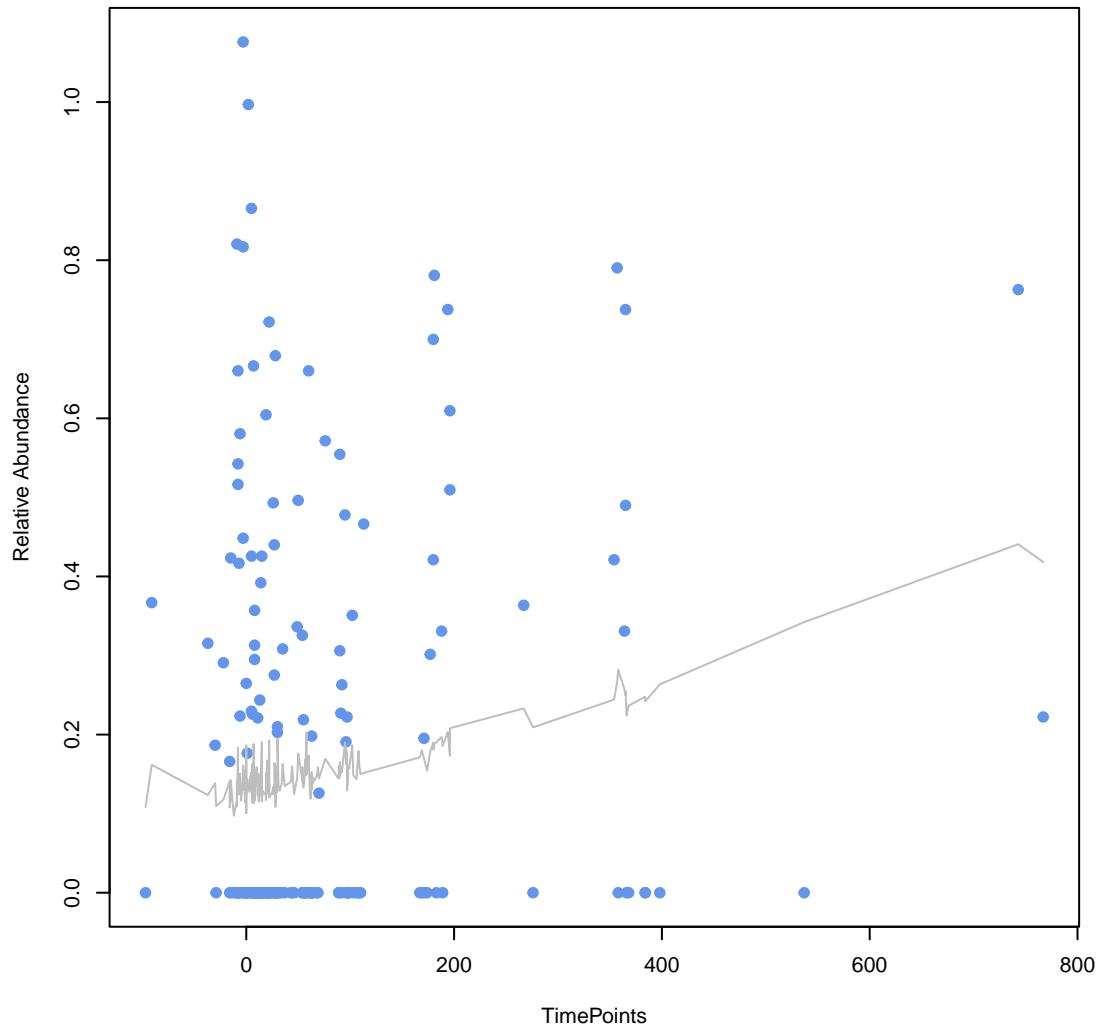
**RGI**  
**BlaB-16**  
**ANOVA Pval: 0.000969**



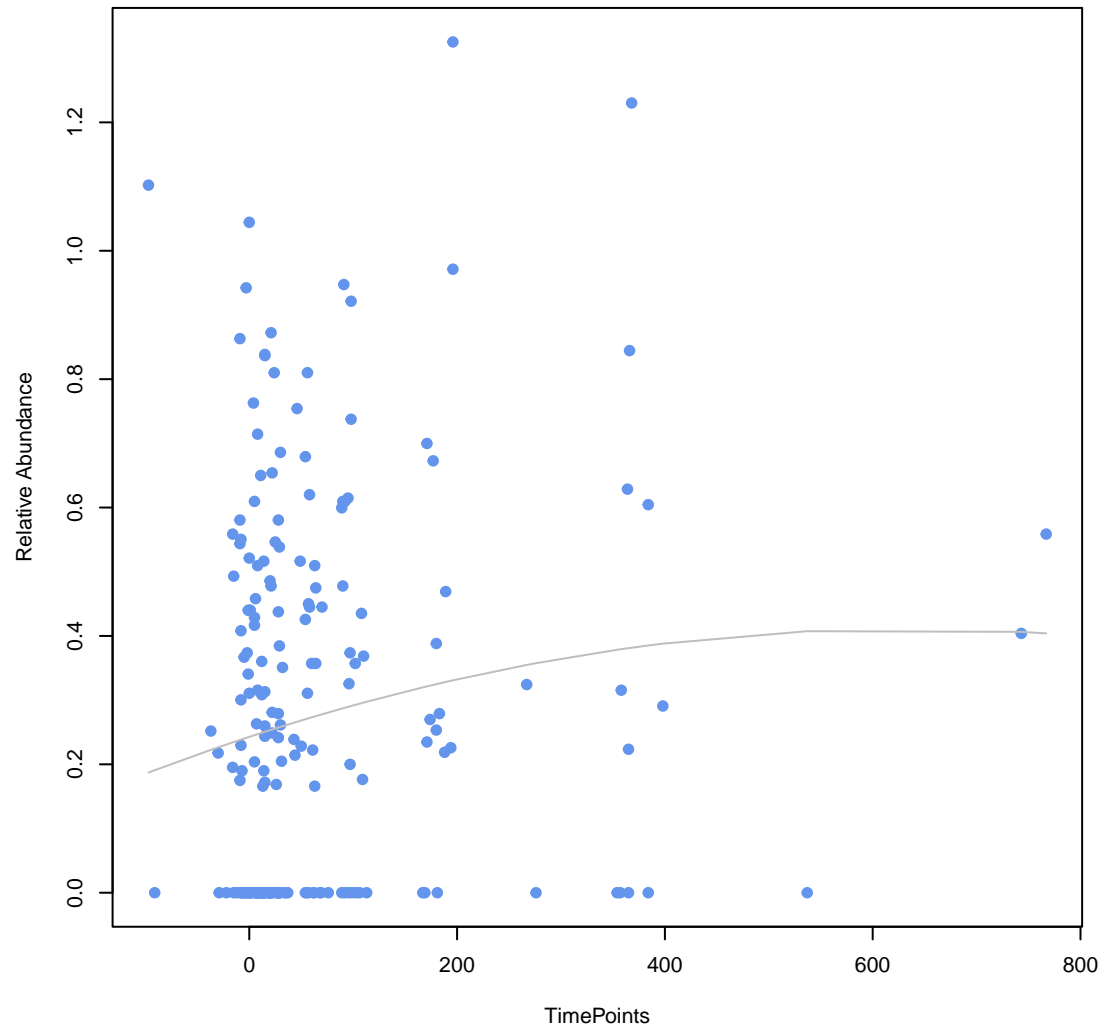
**RGI**  
**Escherichia coli UhpT with mutation conferring resistance to fosfomycin**  
**ANOVA Pval: 0.621**



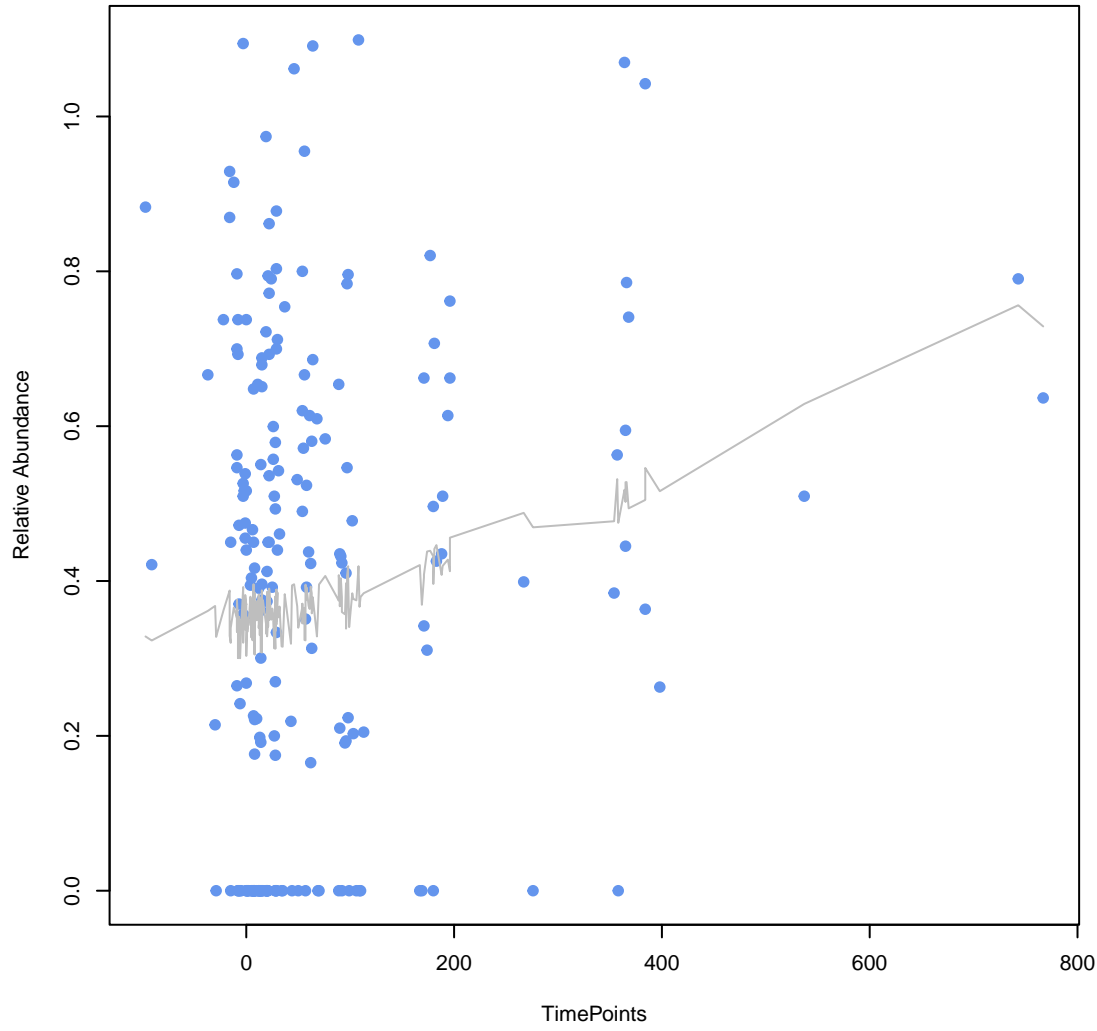
**RGI**  
**tet(W/32/O)**  
**ANOVA Pval: 0.0427**



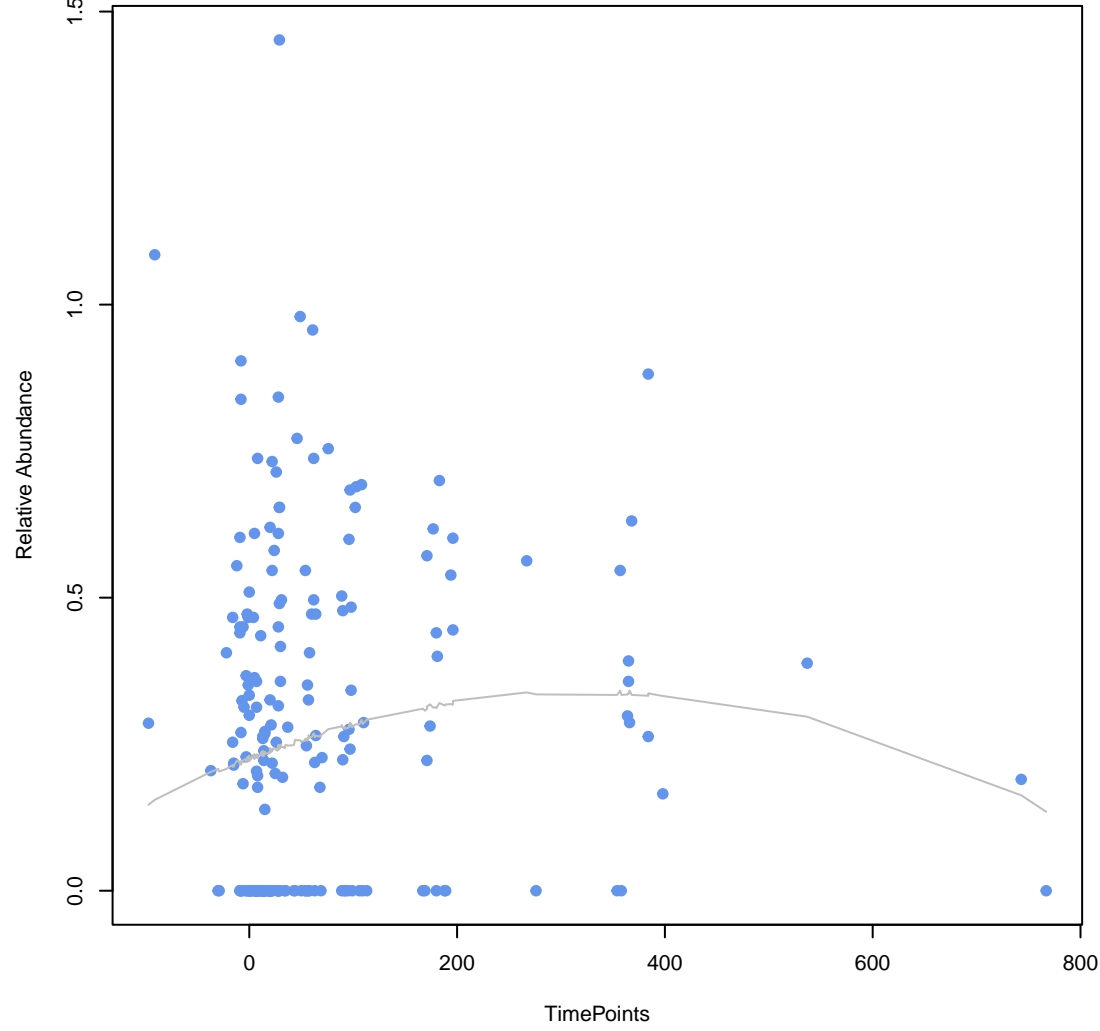
**RGI**  
**AcrF**  
**ANOVA Pval: 0.138**



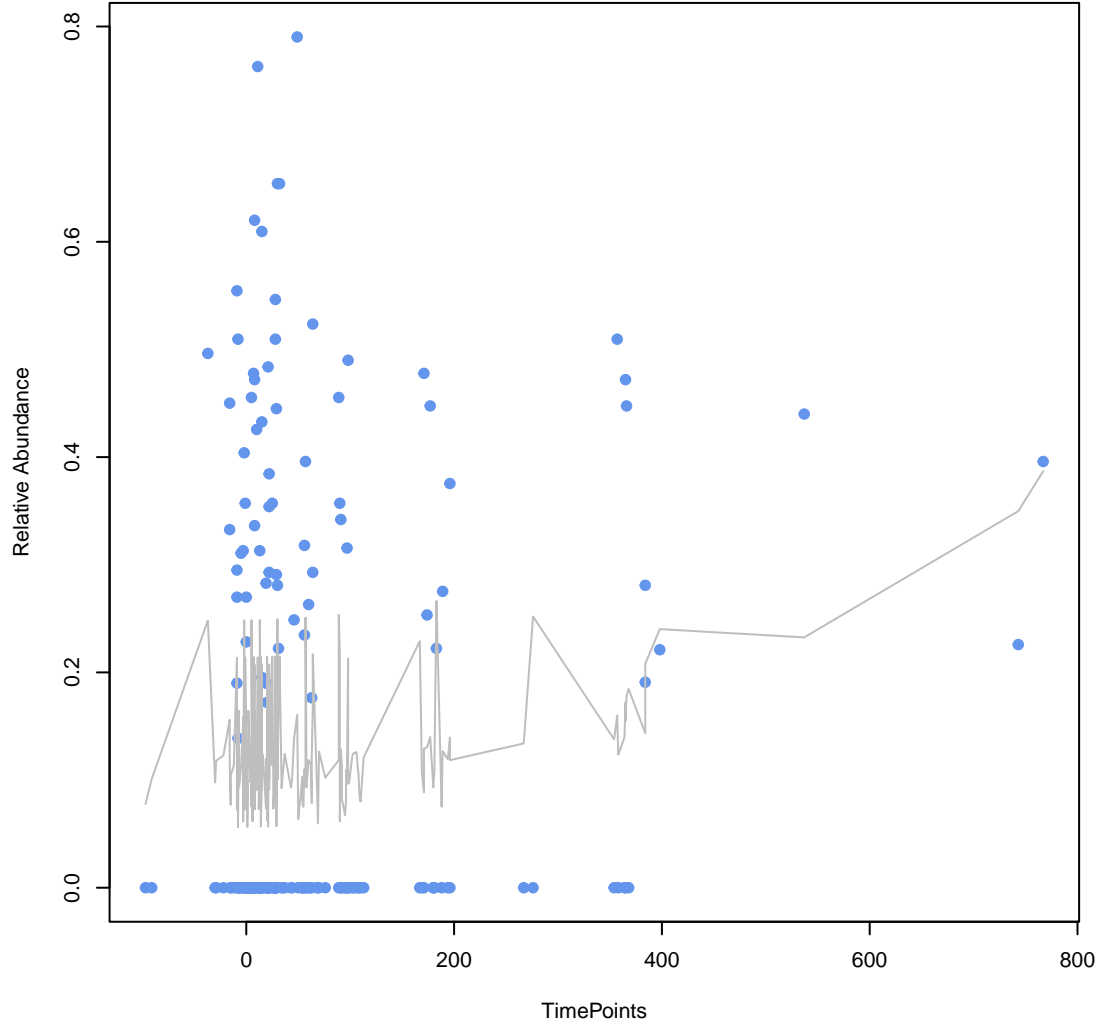
**RGI**  
**acrD**  
**ANOVA Pval: 0.0383**



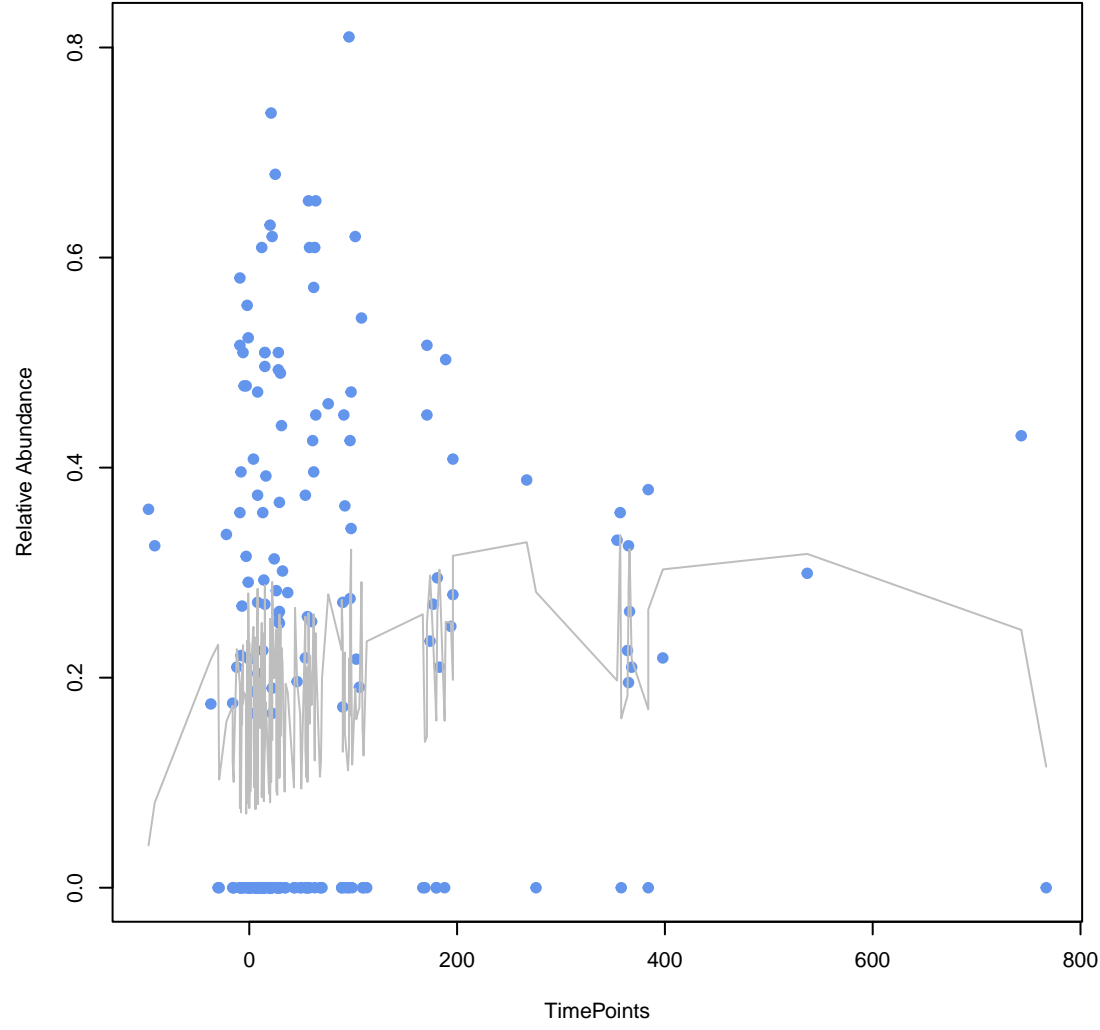
**RGI**  
**CRP**  
**ANOVA Pval: 0.156**



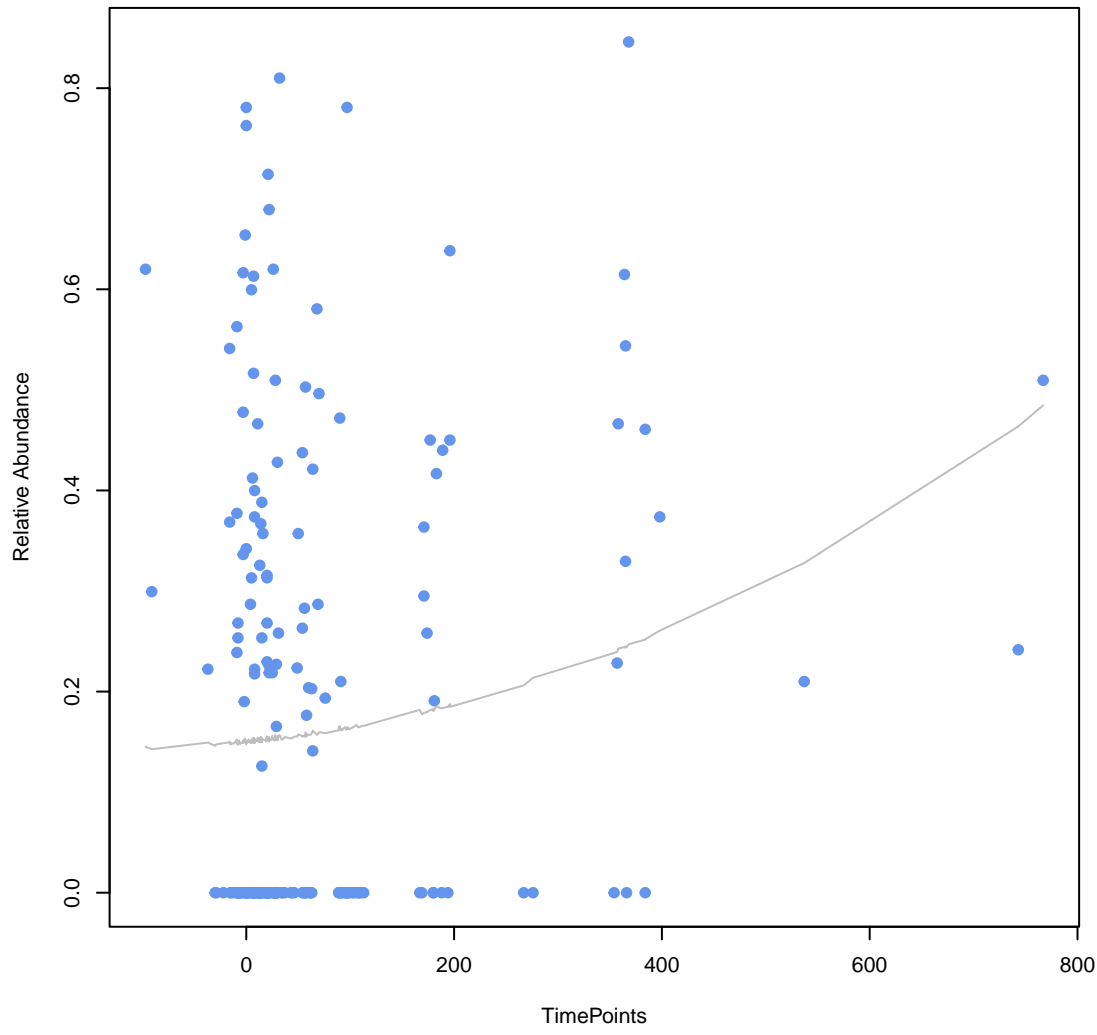
**RGI**  
**gadX**  
**ANOVA Pval: 0.0761**



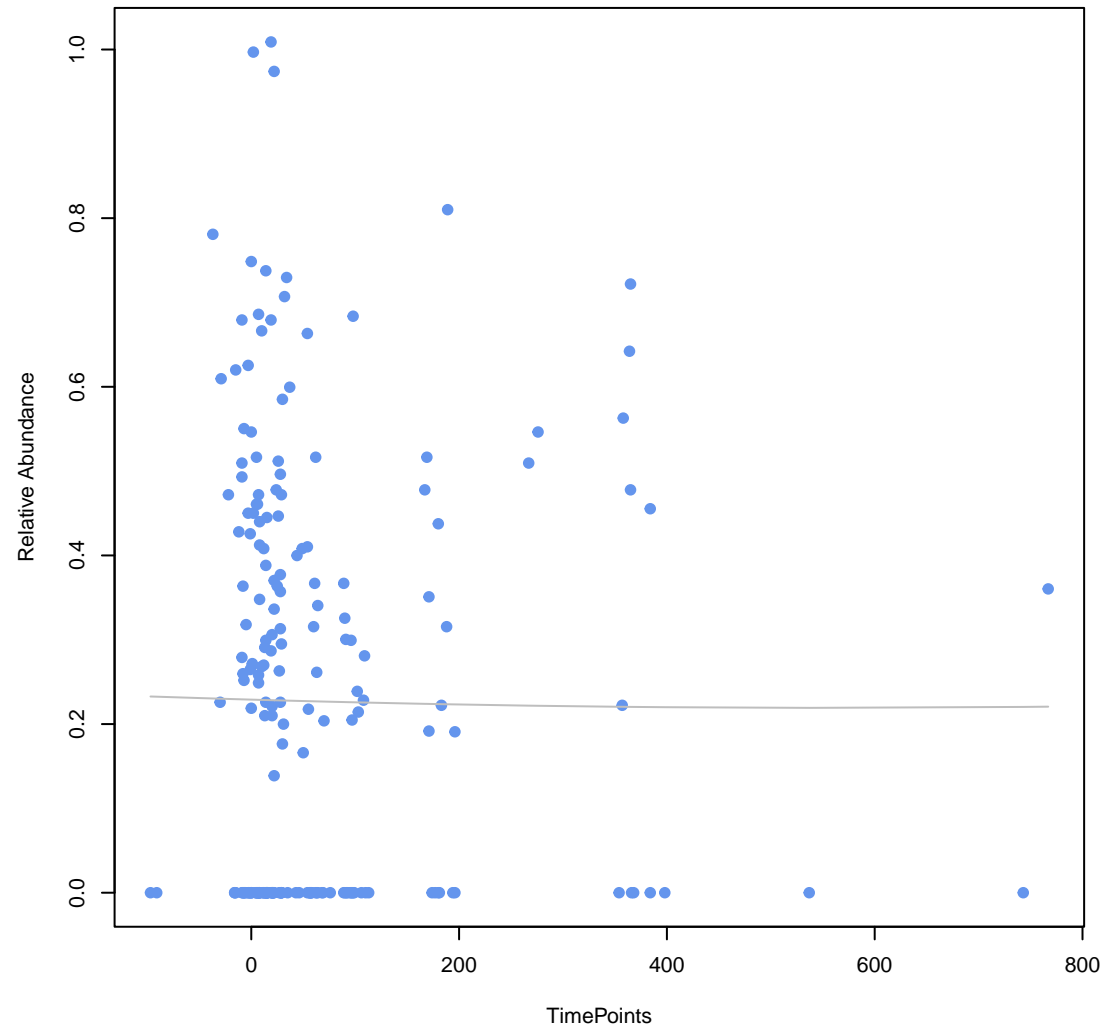
**RGI**  
**Escherichia coli EF-Tu mutants conferring resistance to Pulvomycin**  
**ANOVA Pval: 0.155**



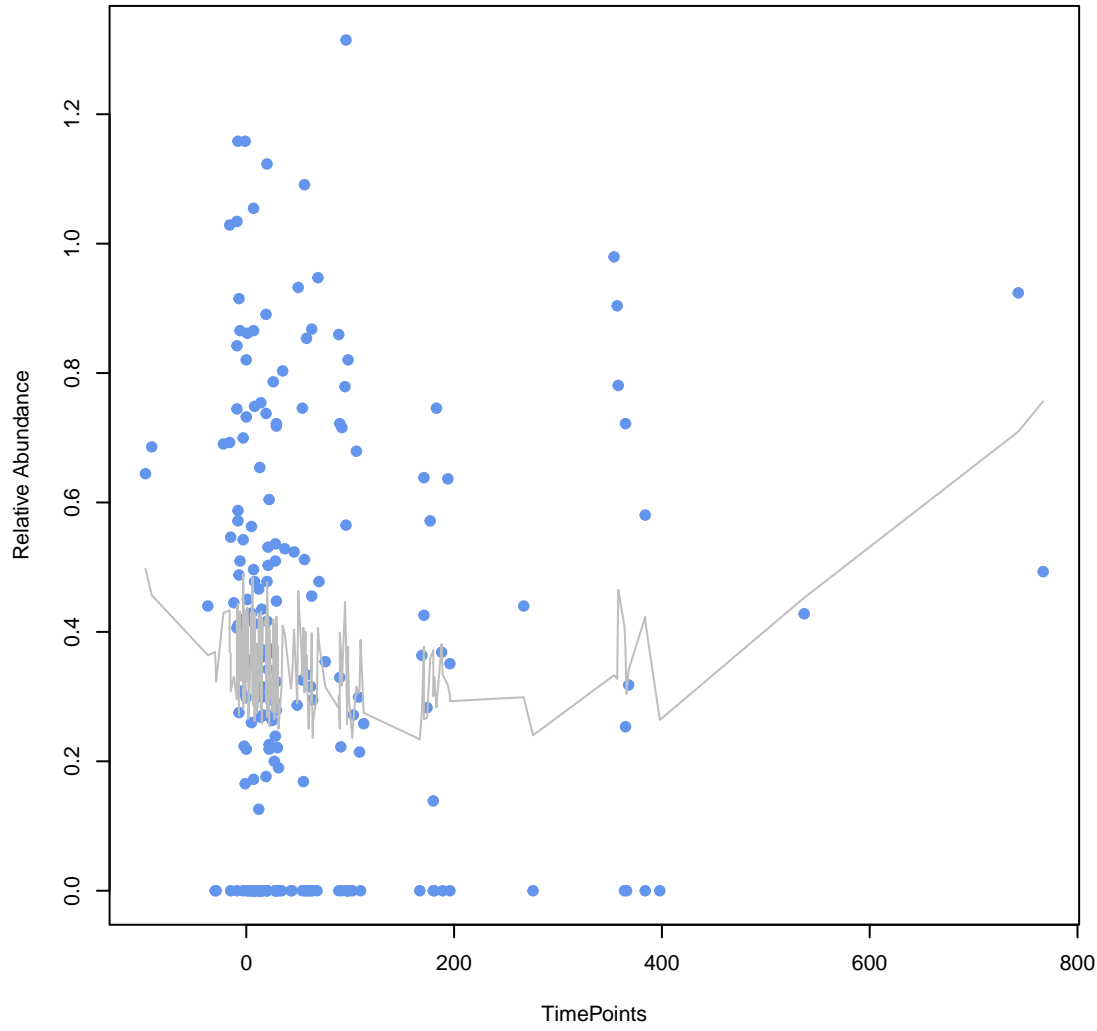
**RGI**  
**mdtN**  
**ANOVA Pval: 0.0384**



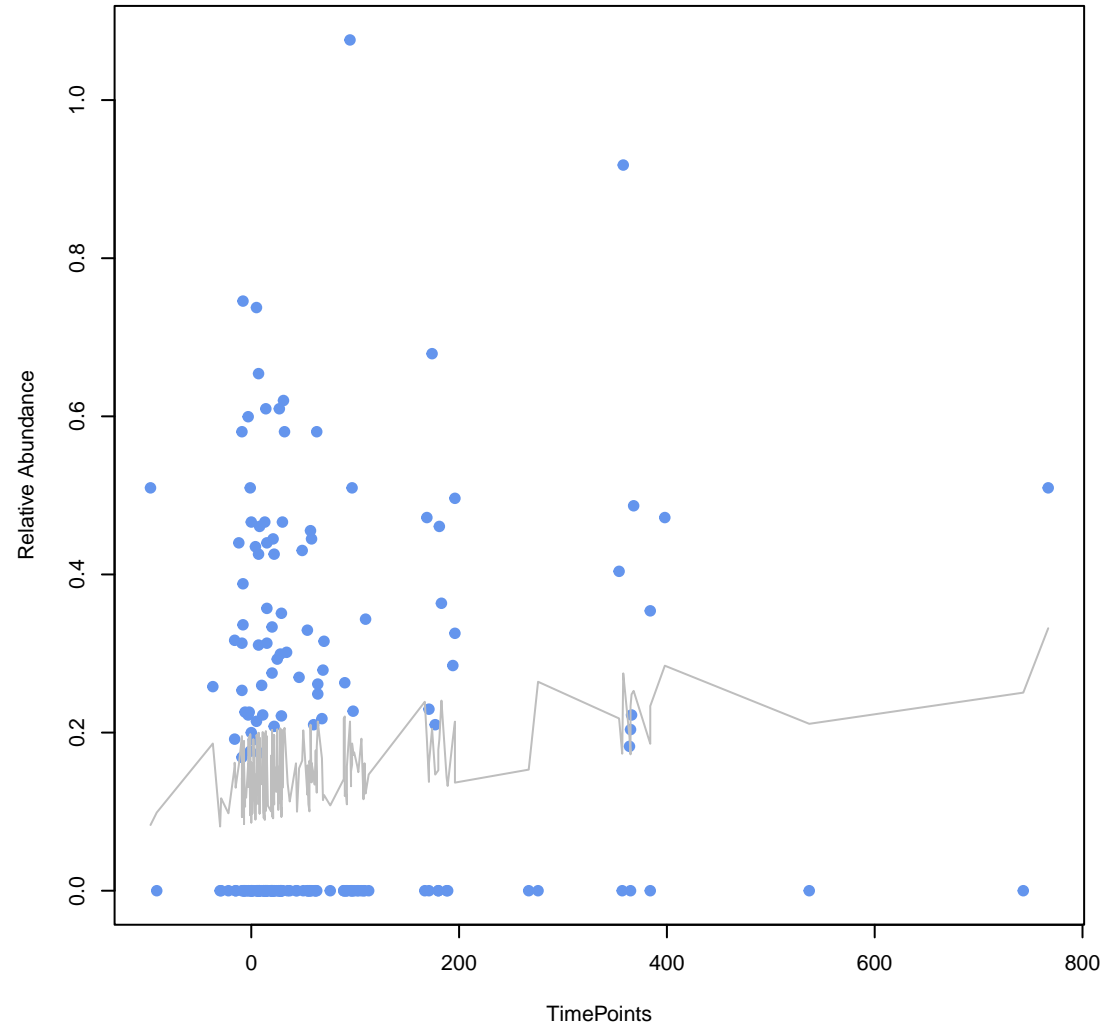
**RGI**  
**vanA**  
**ANOVA Pval: 0.99**



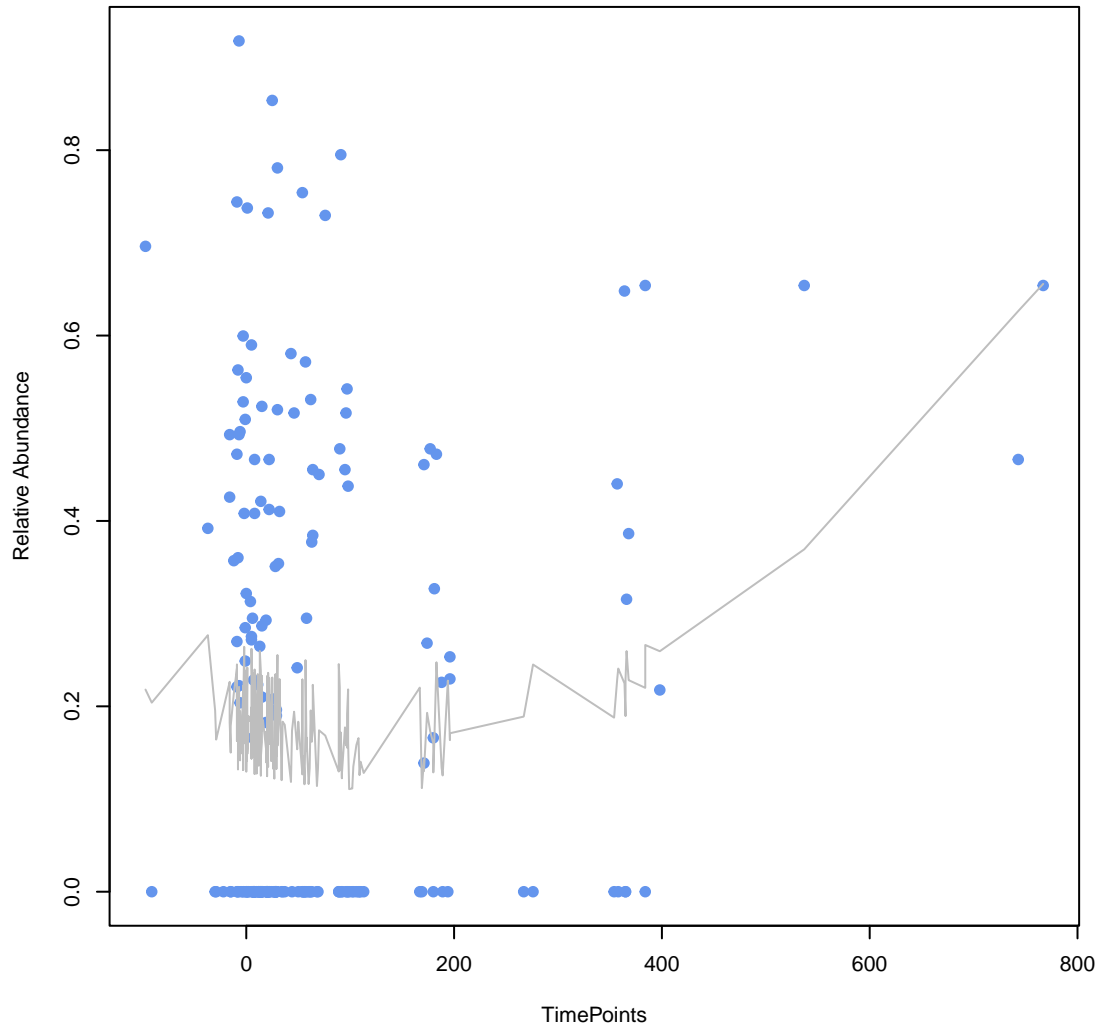
**RGI**  
***Bifidobacterium adolescentis* rpoB mutants conferring resistance to rifampicin**  
**ANOVA Pval: 0.141**



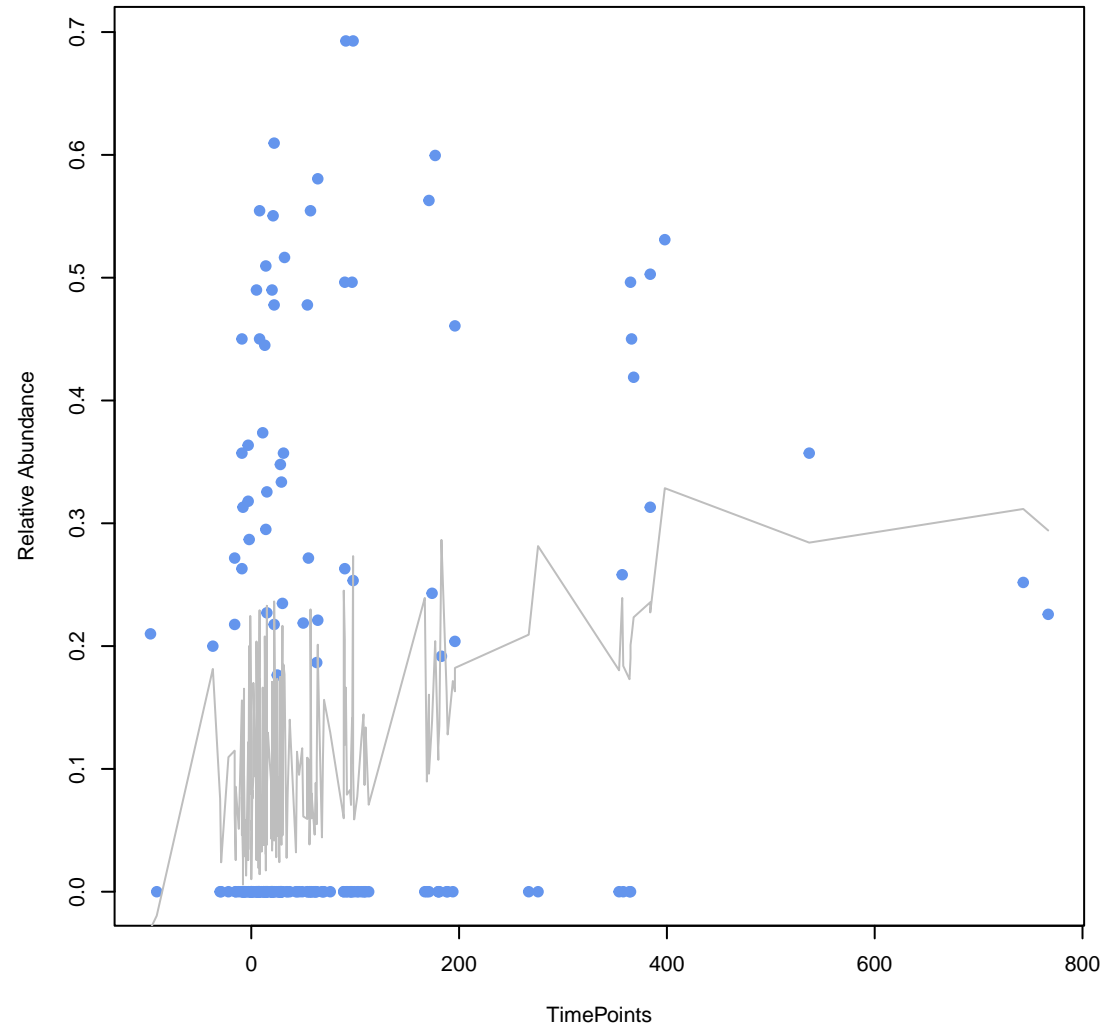
**RGI**  
**AcrE**  
**ANOVA Pval: 0.185**



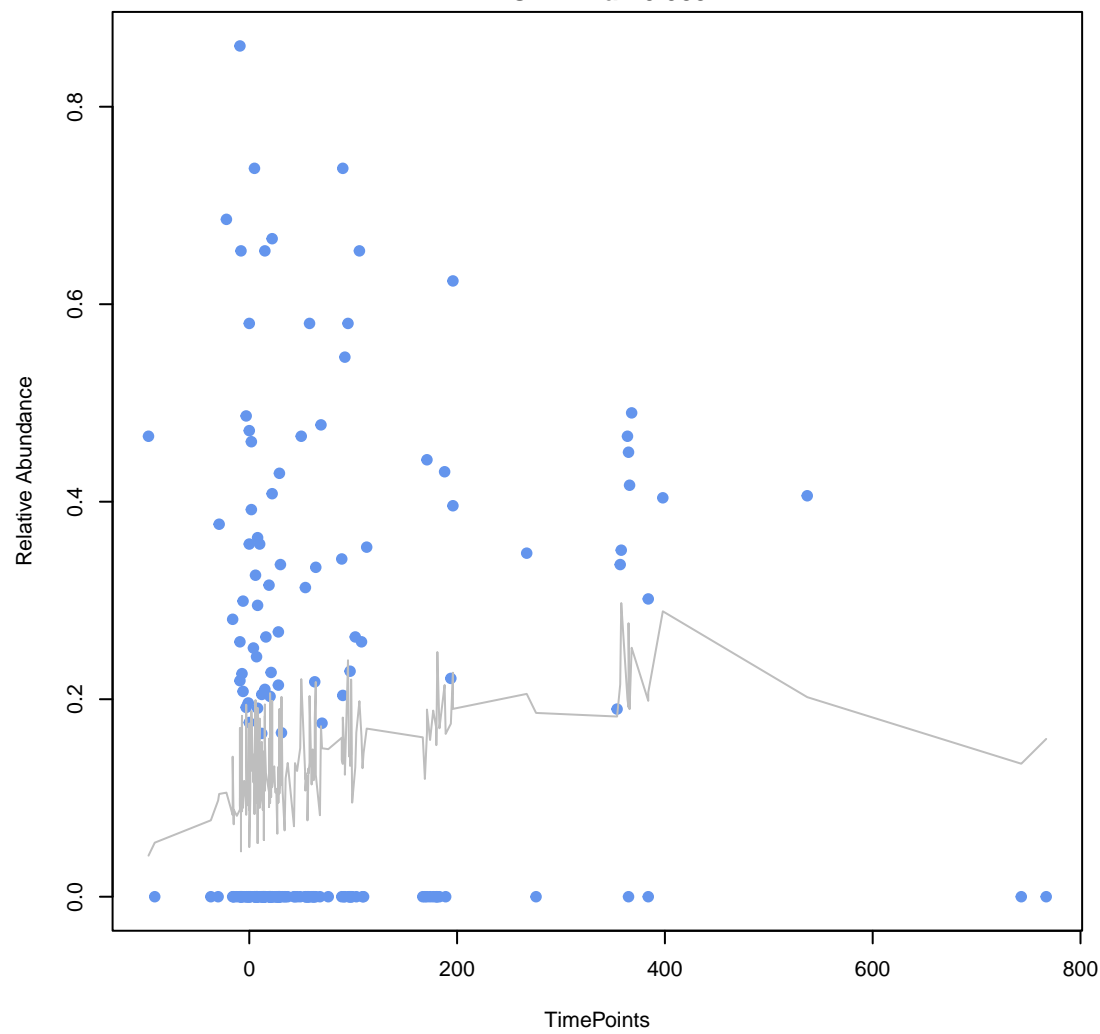
**RGI**  
**YojI**  
**ANOVA Pval: 0.0118**



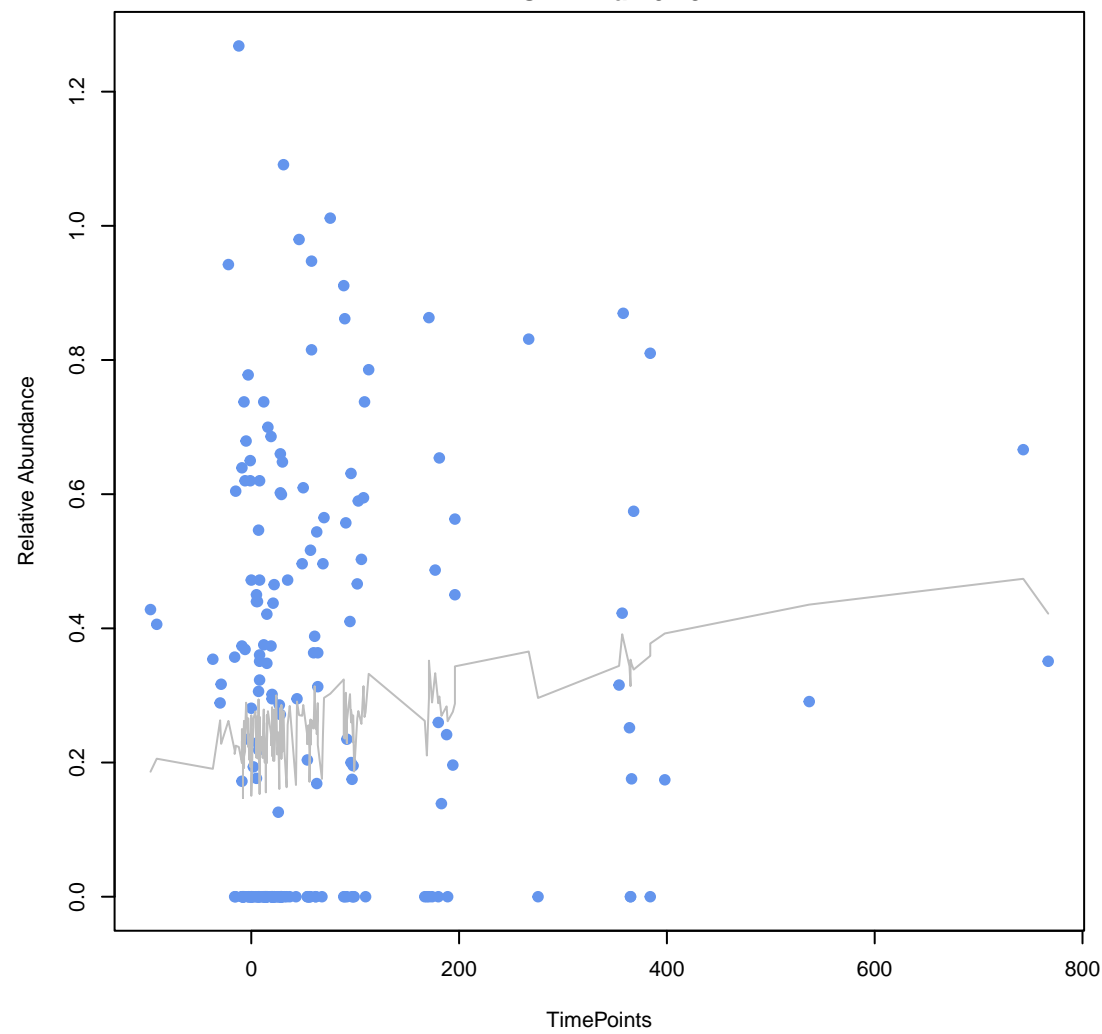
**RGI**  
**evgA**  
**ANOVA Pval: 0.00109**



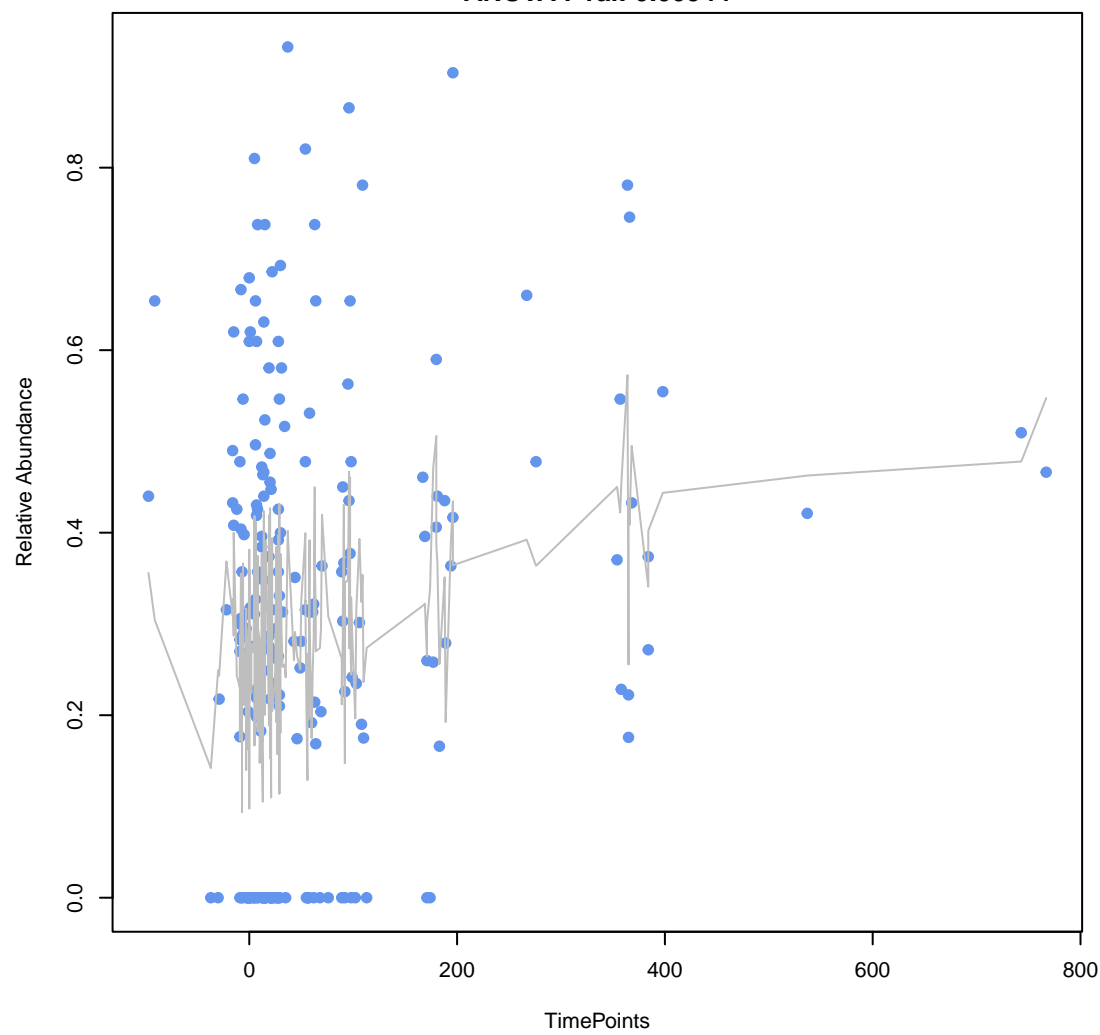
**RGI**  
**vanS gene in vanD cluster**  
**ANOVA Pval: 0.0891**



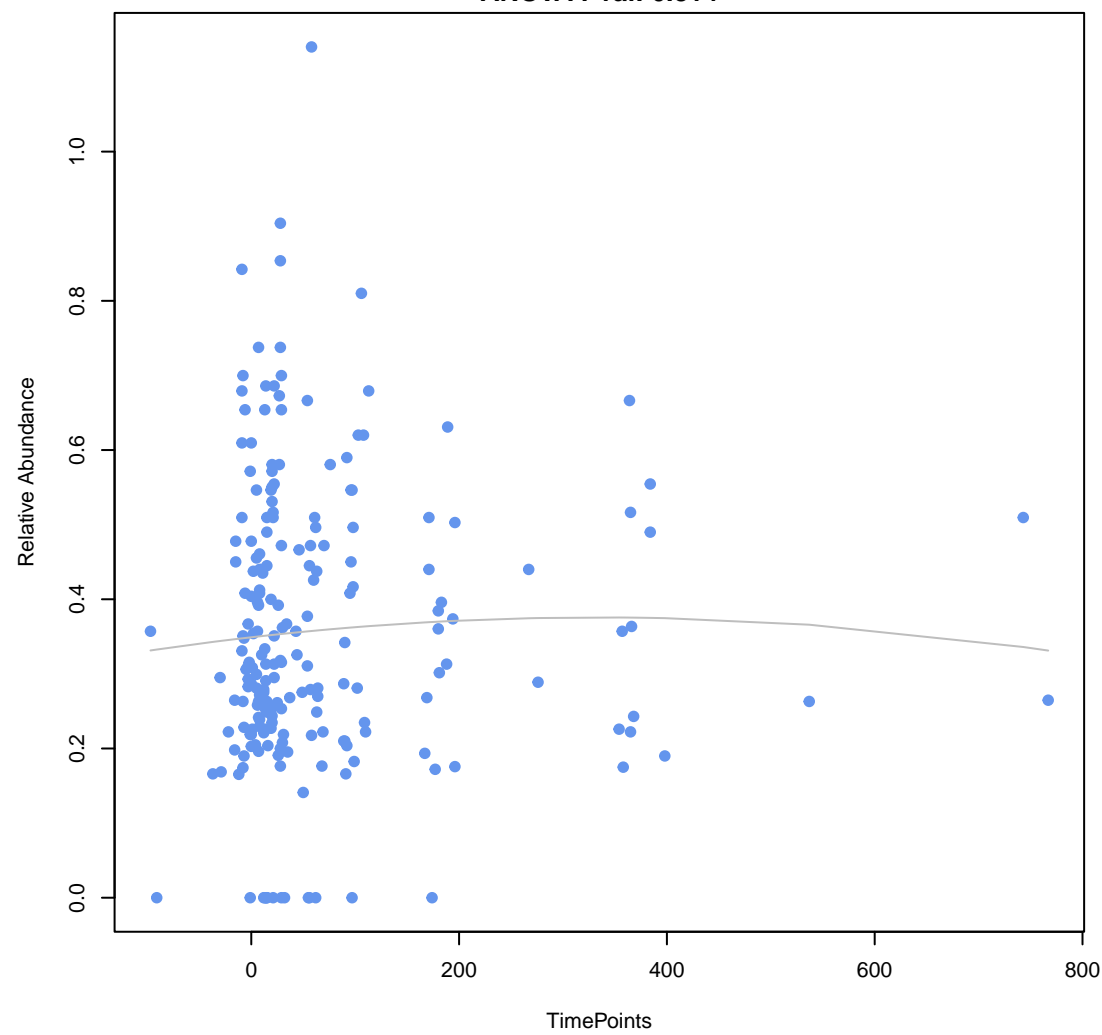
**RGI**  
**vanR gene in vanD cluster**  
**ANOVA Pval: 0.197**



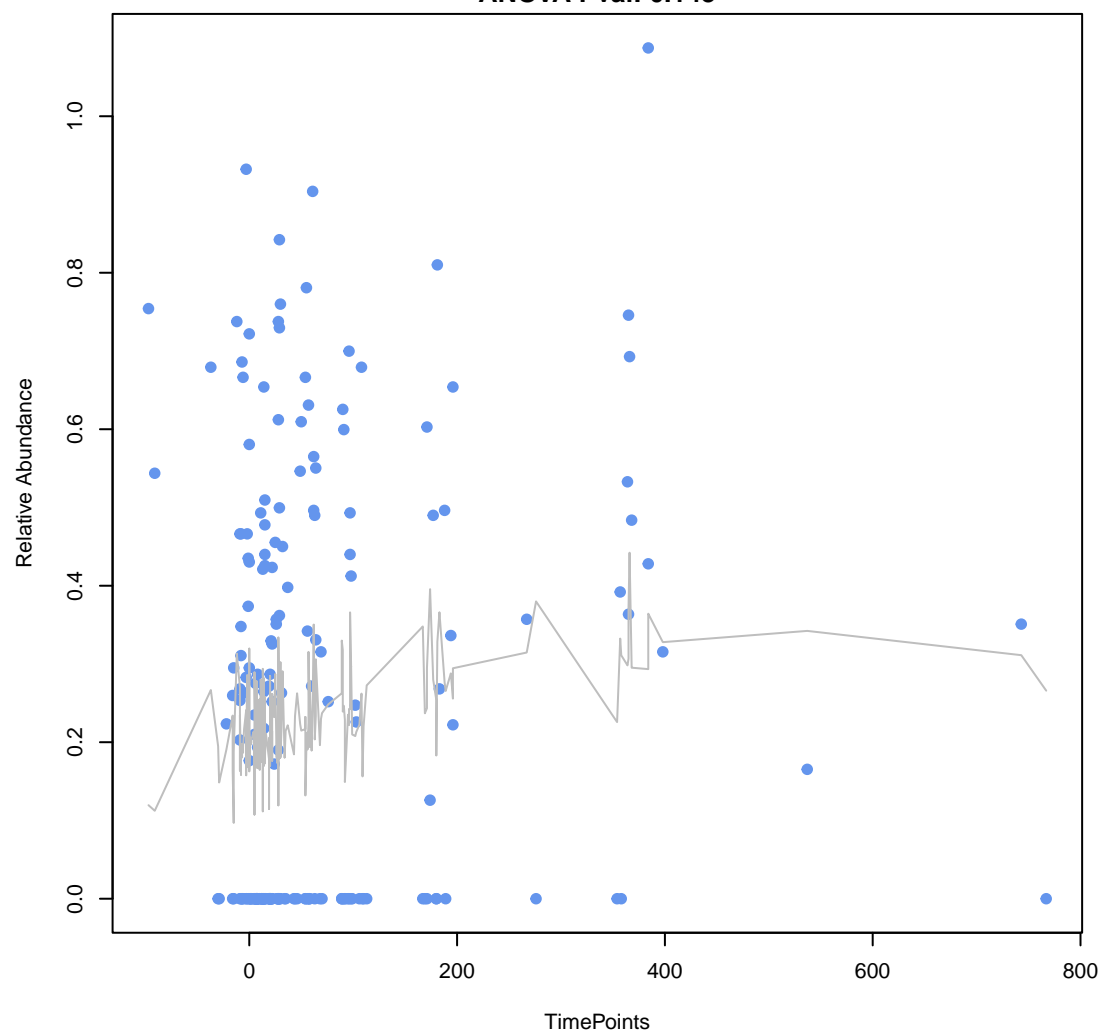
**RGI**  
**SAT-4**  
**ANOVA Pval: 0.00944**



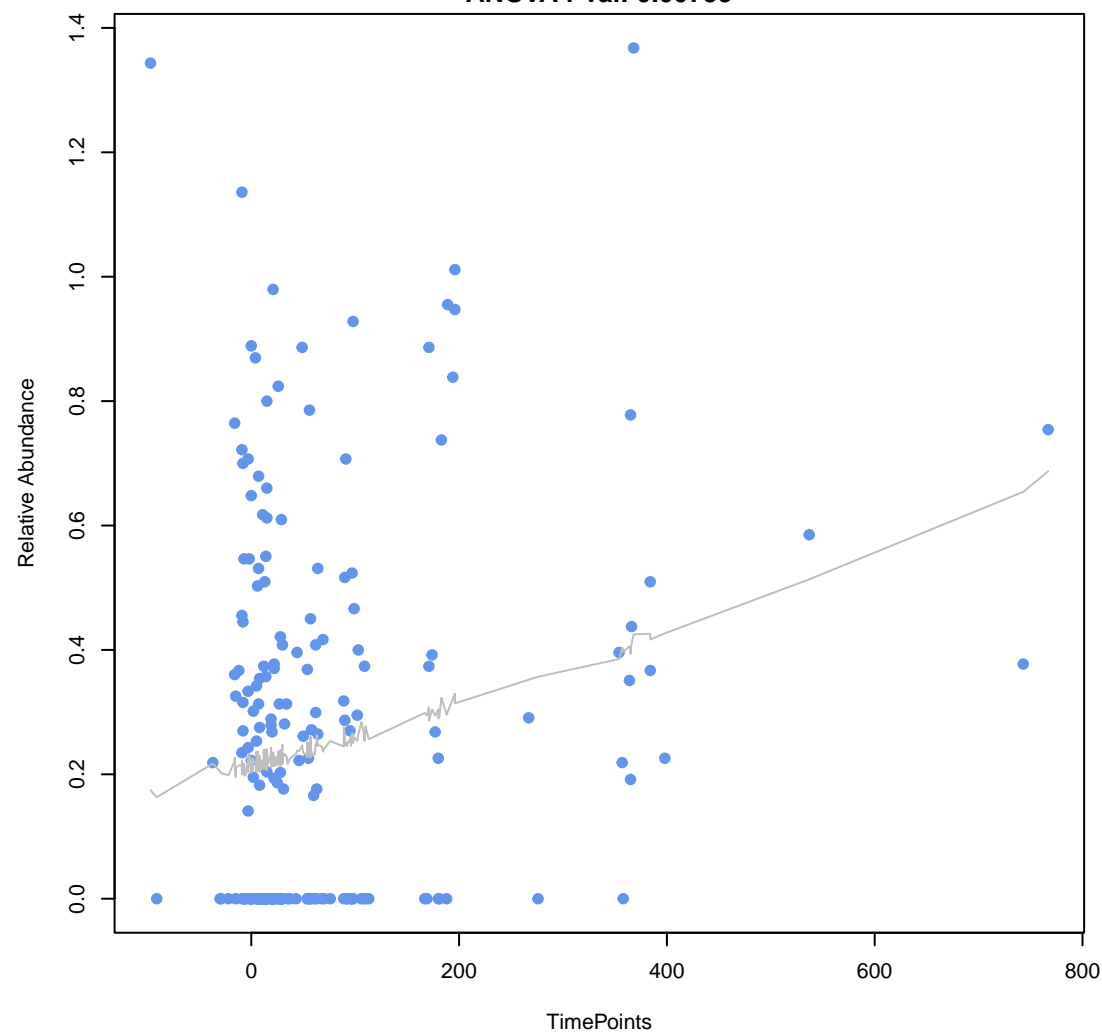
**RGI**  
**ErmB**  
**ANOVA Pval: 0.814**



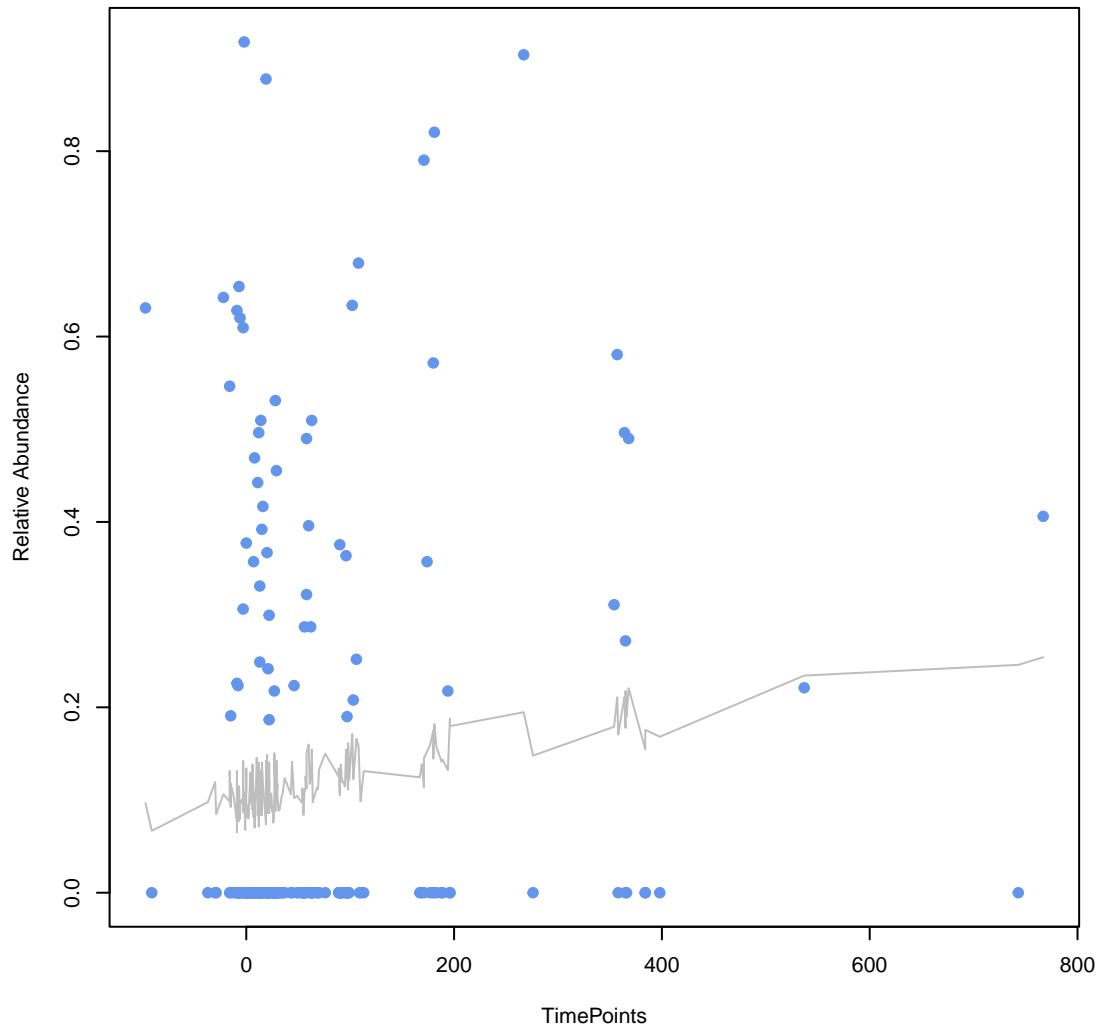
**RGI**  
**baeR**  
**ANOVA Pval: 0.143**



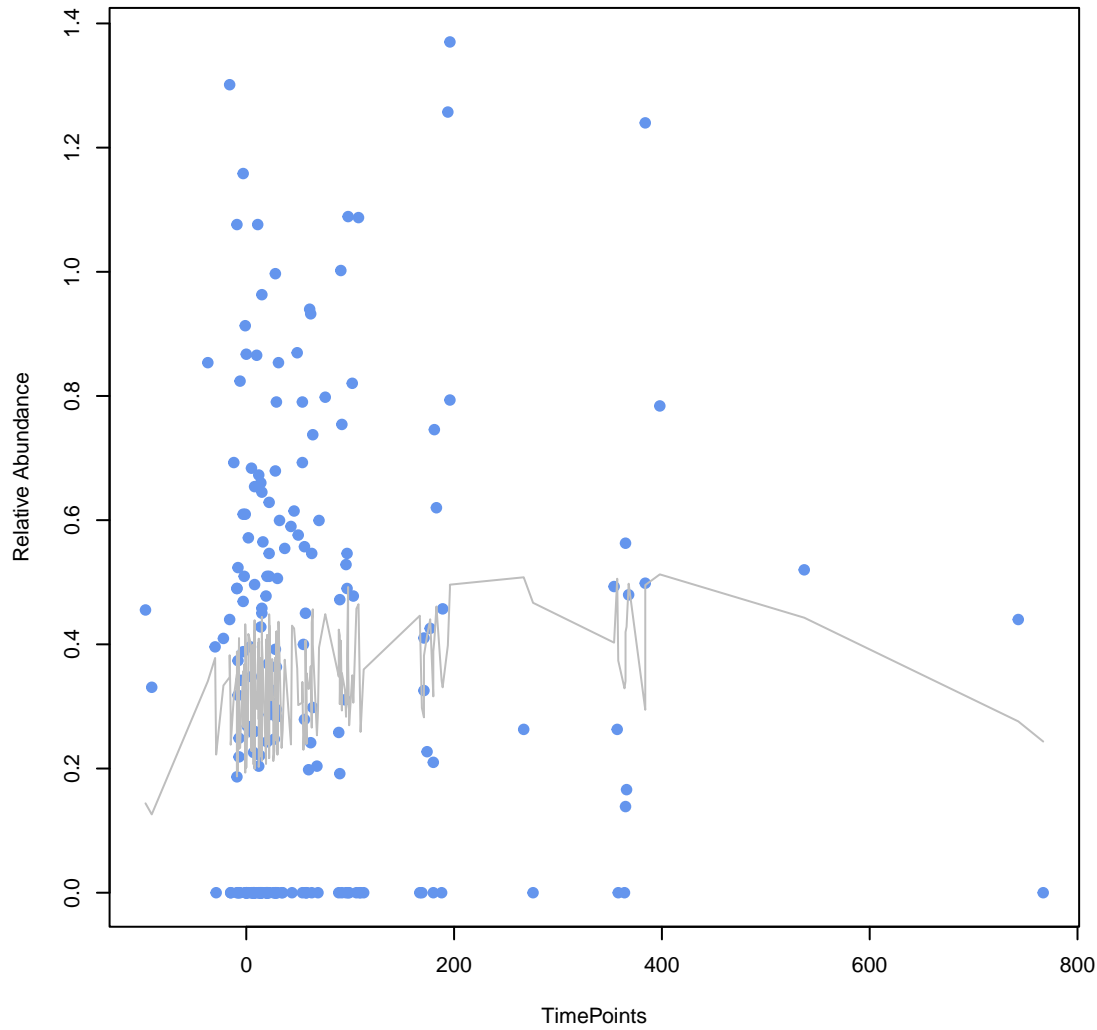
**RGI**  
**mdtF**  
**ANOVA Pval: 0.00759**



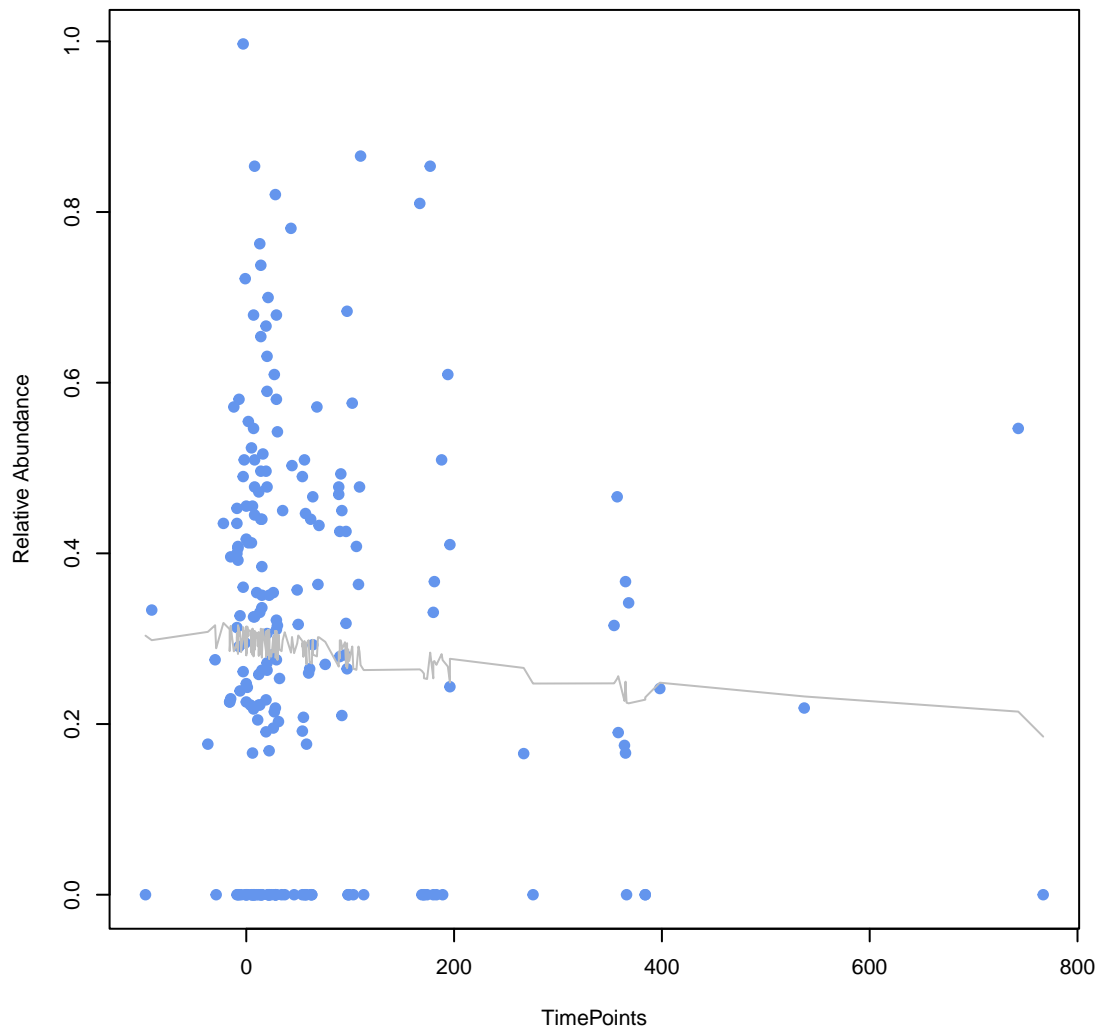
**RGI**  
**tet(W/N/W)**  
ANOVA Pval: 0.251



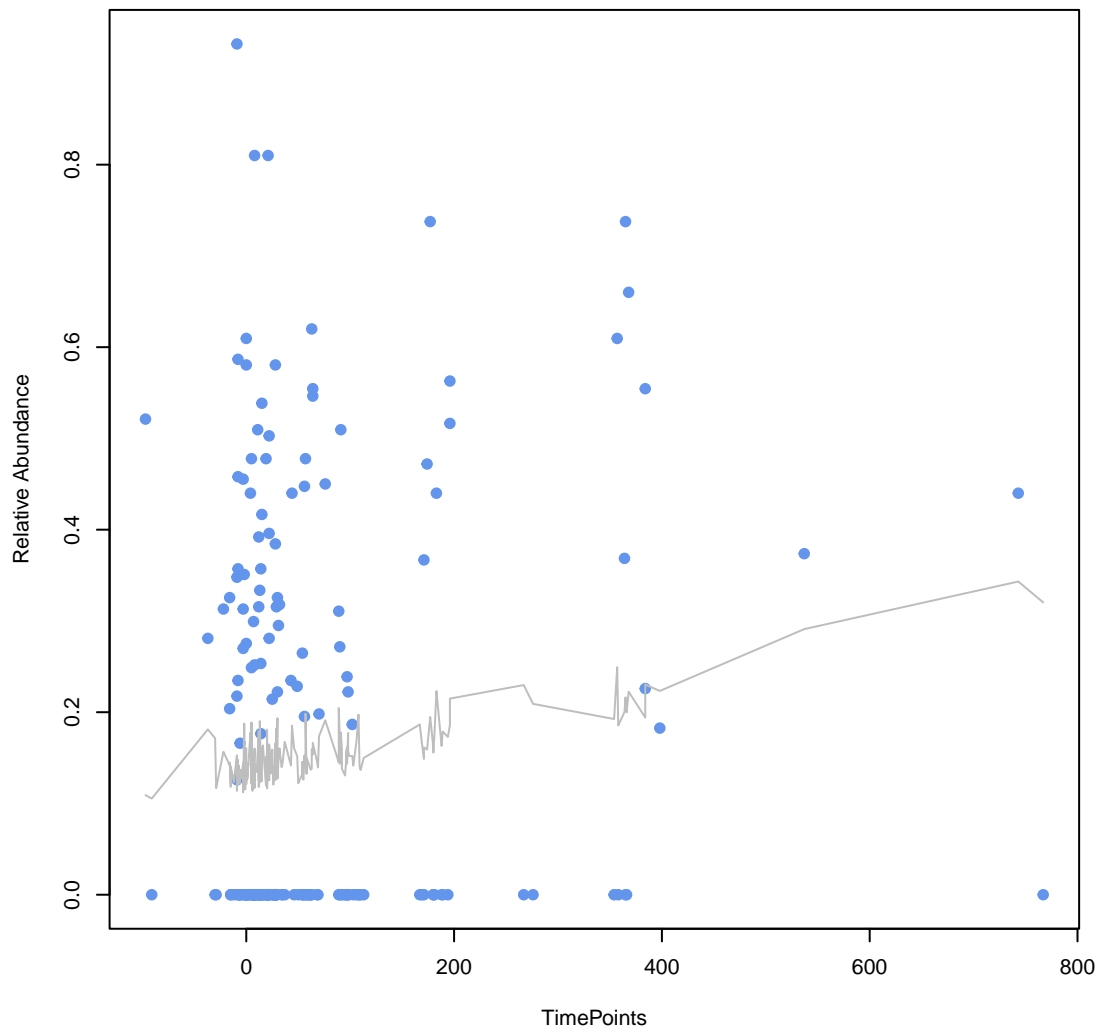
**RGI**  
**acrB**  
ANOVA Pval: 0.242



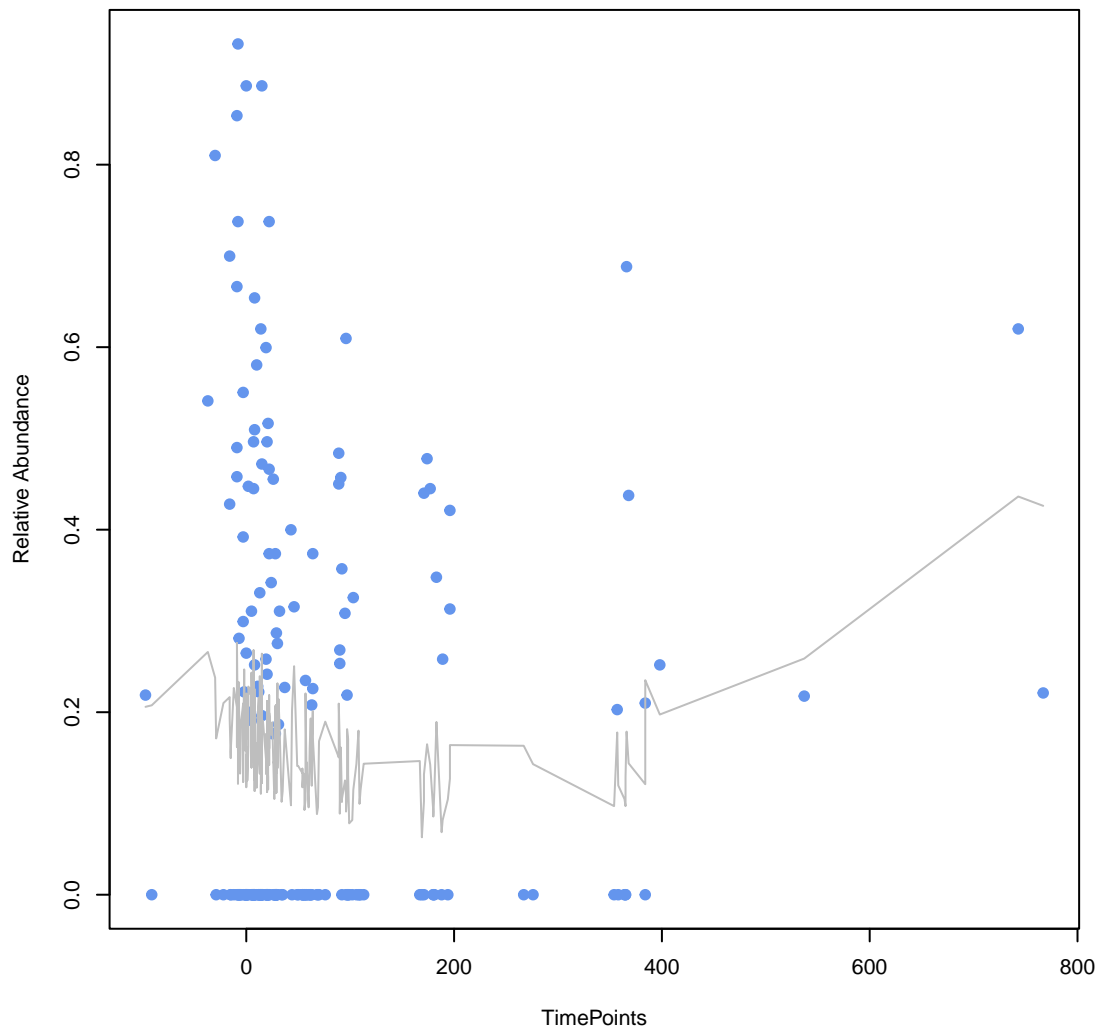
**RGI**  
**ErmF**  
ANOVA Pval: 0.546



**RGI**  
**mdtA**  
ANOVA Pval: 0.256



**RGI**  
**emrY**  
ANOVA Pval: 0.137



**RGI**  
**evgS**  
ANOVA Pval: 0.345

