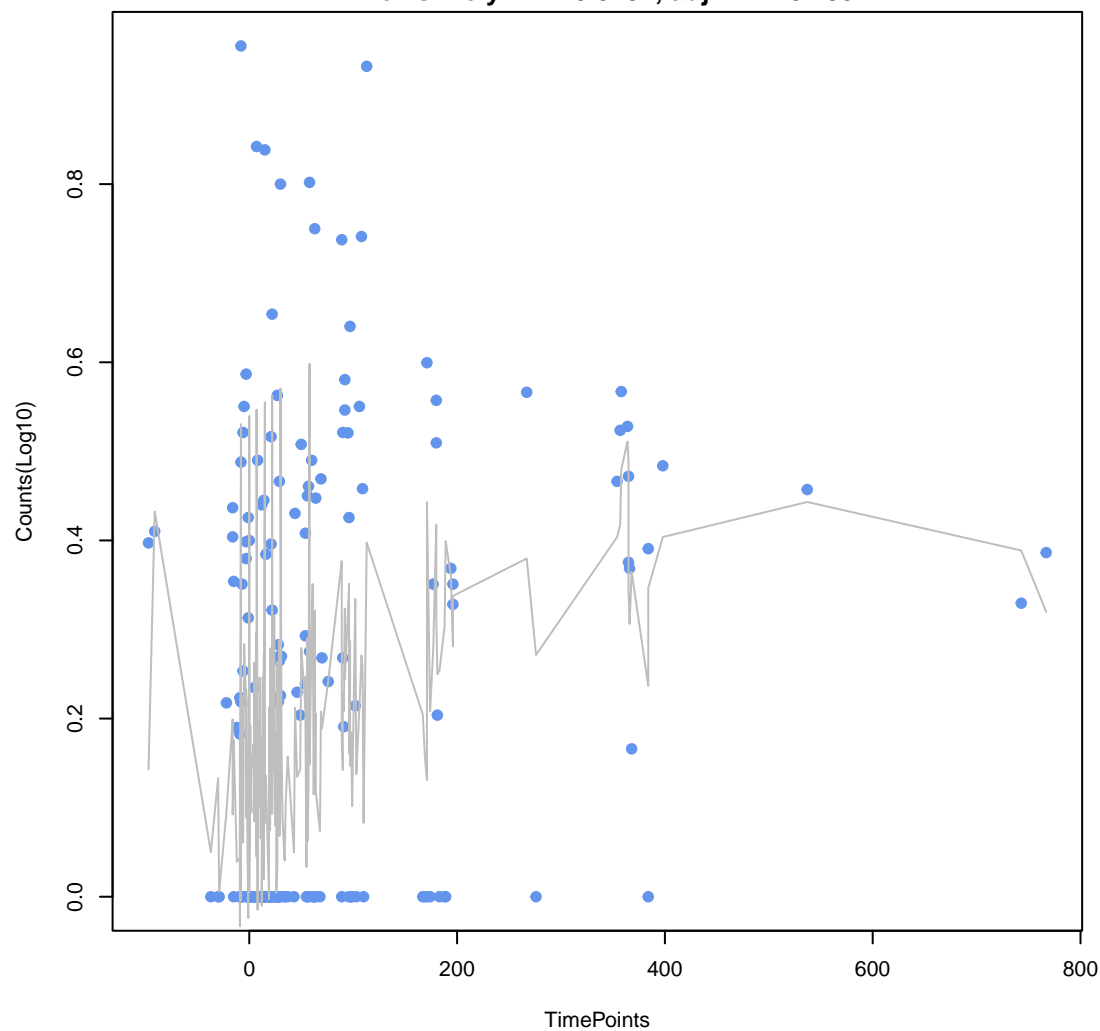
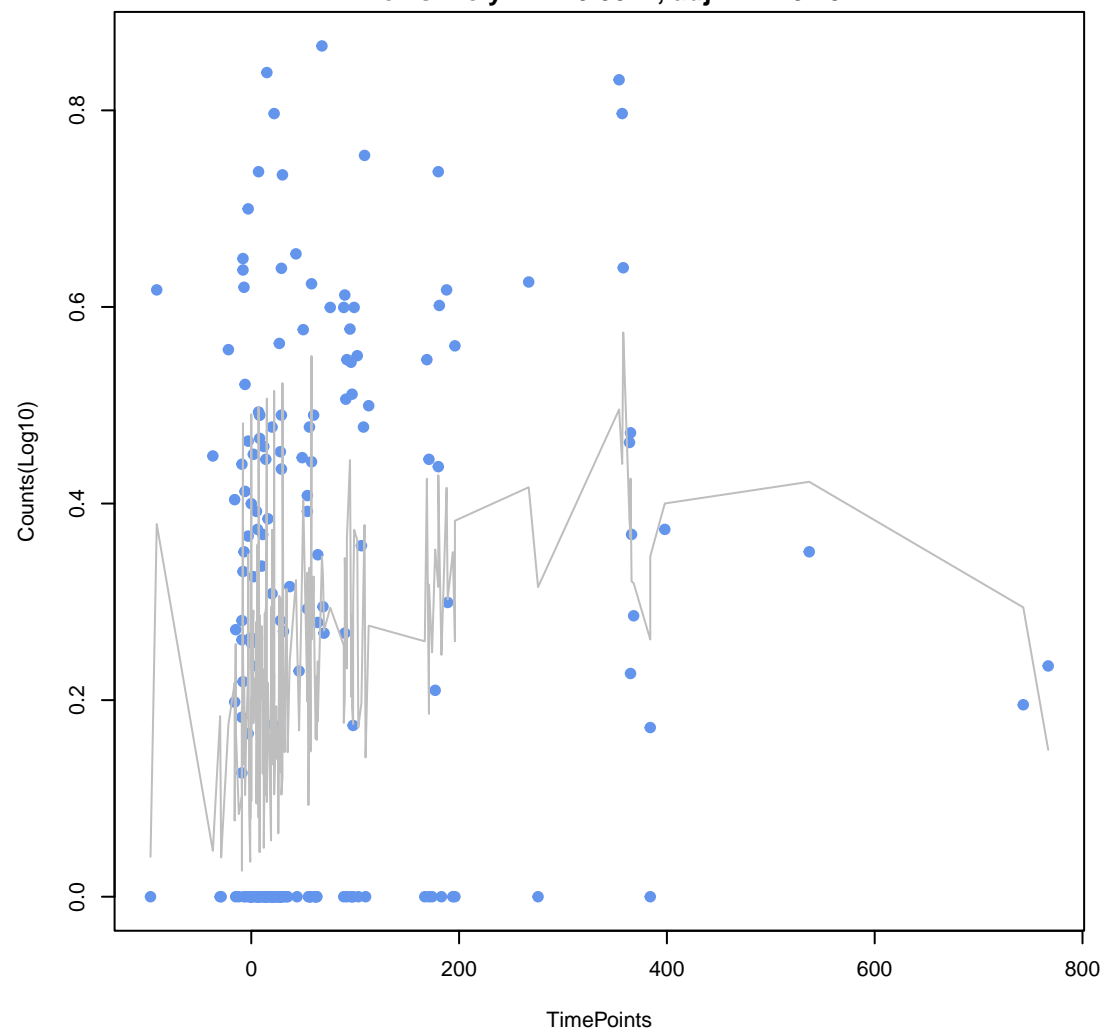


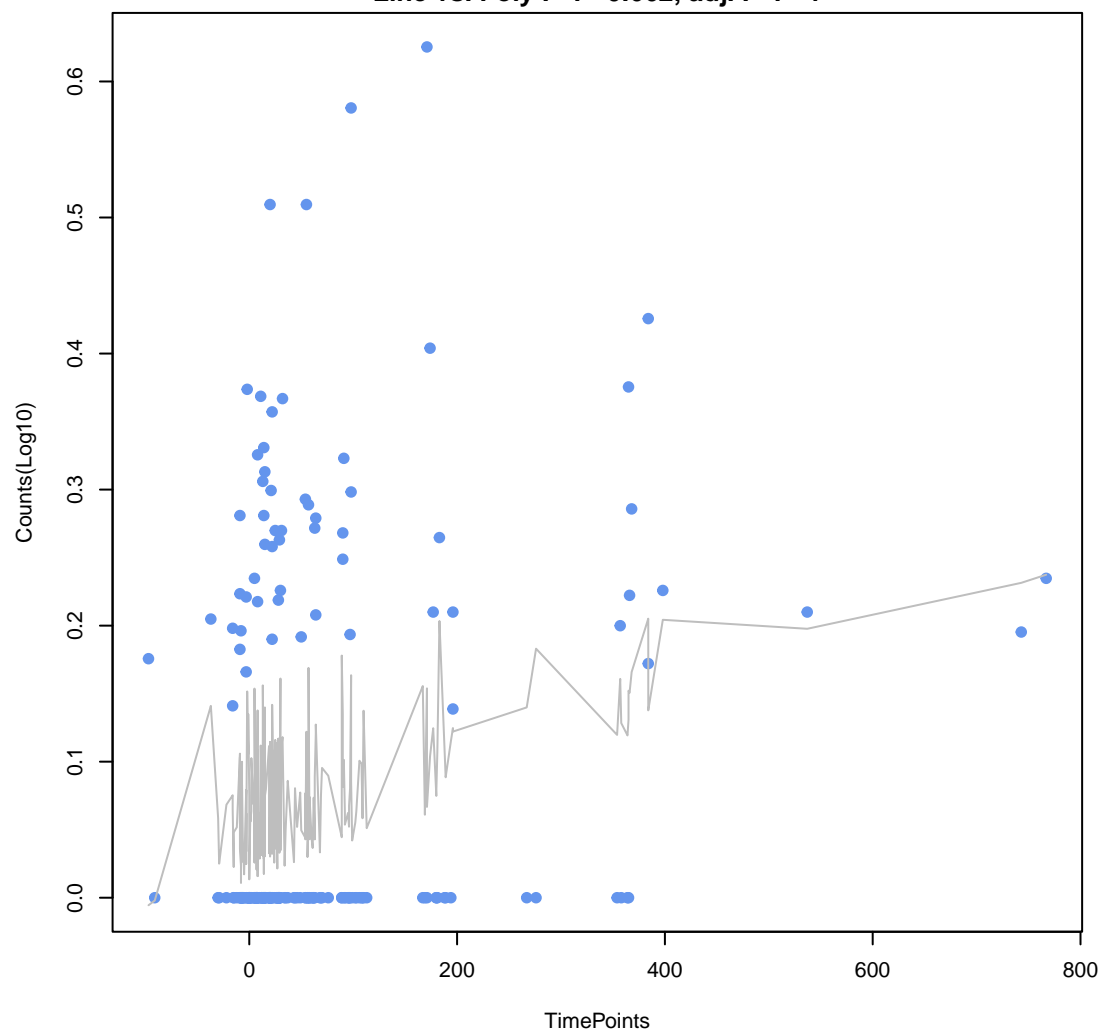
**nimA**  
ANOVA  $P=5.28e-06$ , adj. ANOVA- $P=0.000565$   
Line vs. Poly F- $P=0.0134$ , adj. F- $P=0.239$



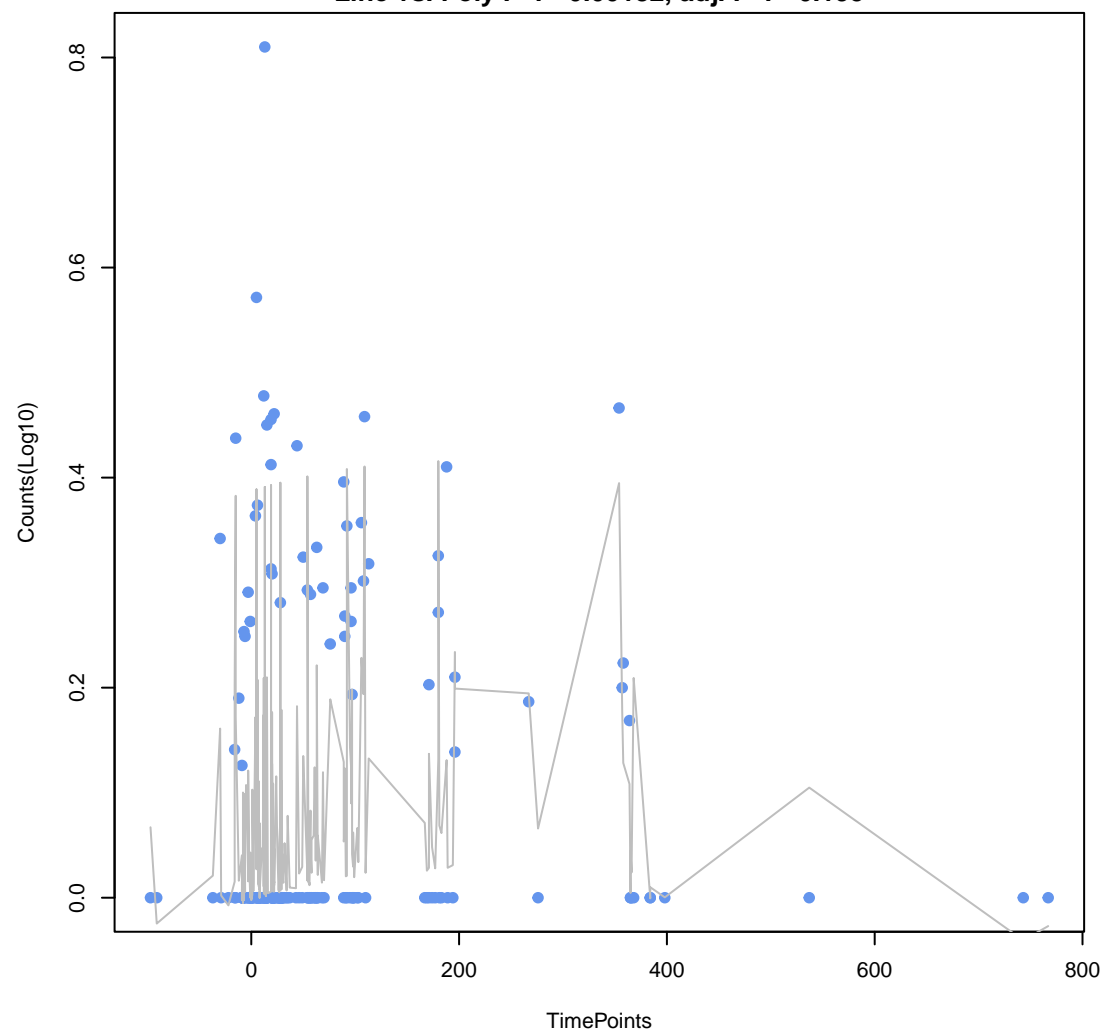
**nimJ**  
ANOVA  $P=0.000235$ , adj. ANOVA- $P=0.0126$   
Line vs. Poly F- $P=0.0041$ , adj. F- $P=0.202$



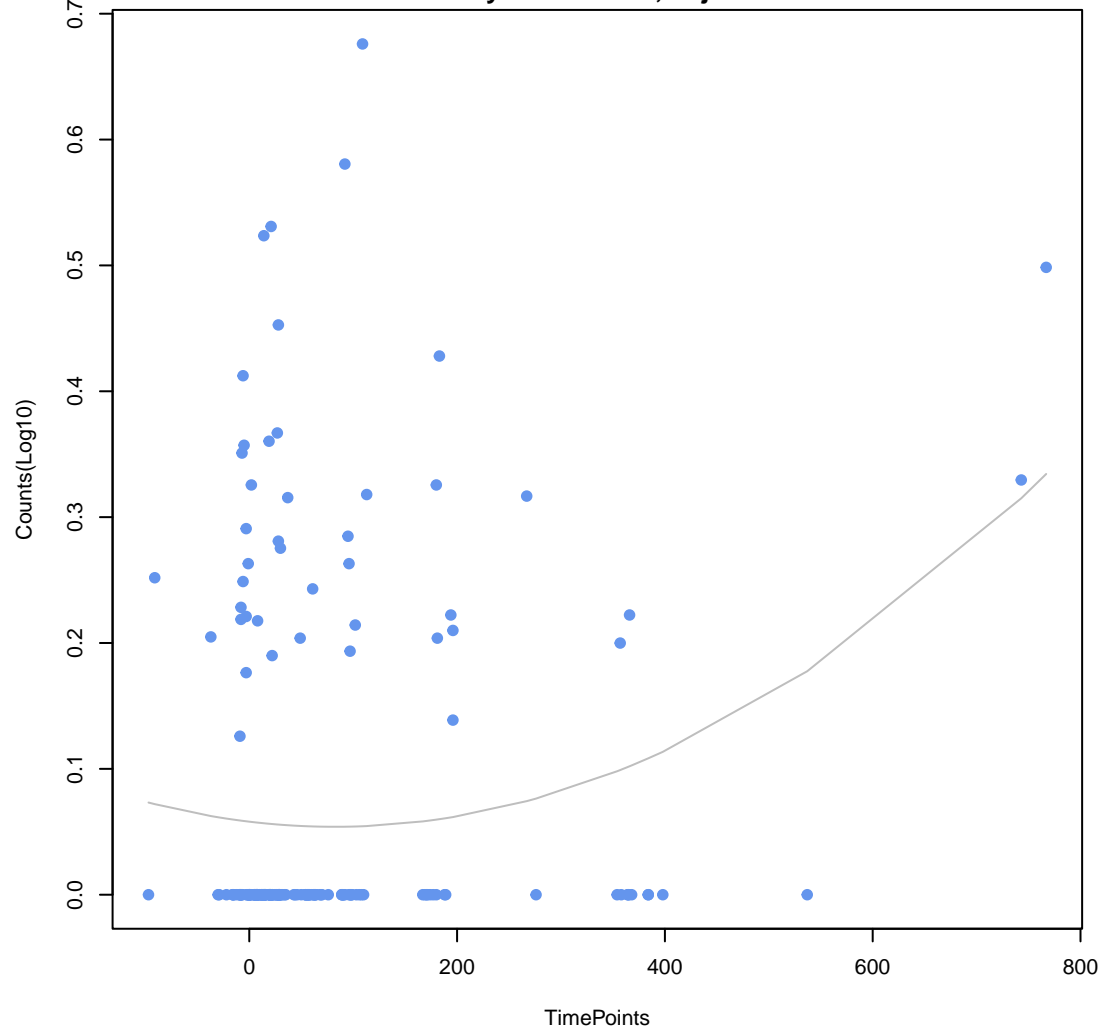
**evgA**  
ANOVA  $P=0.00452$ , adj. ANOVA- $P=0.138$   
Line vs. Poly F- $P=0.662$ , adj. F- $P=1$



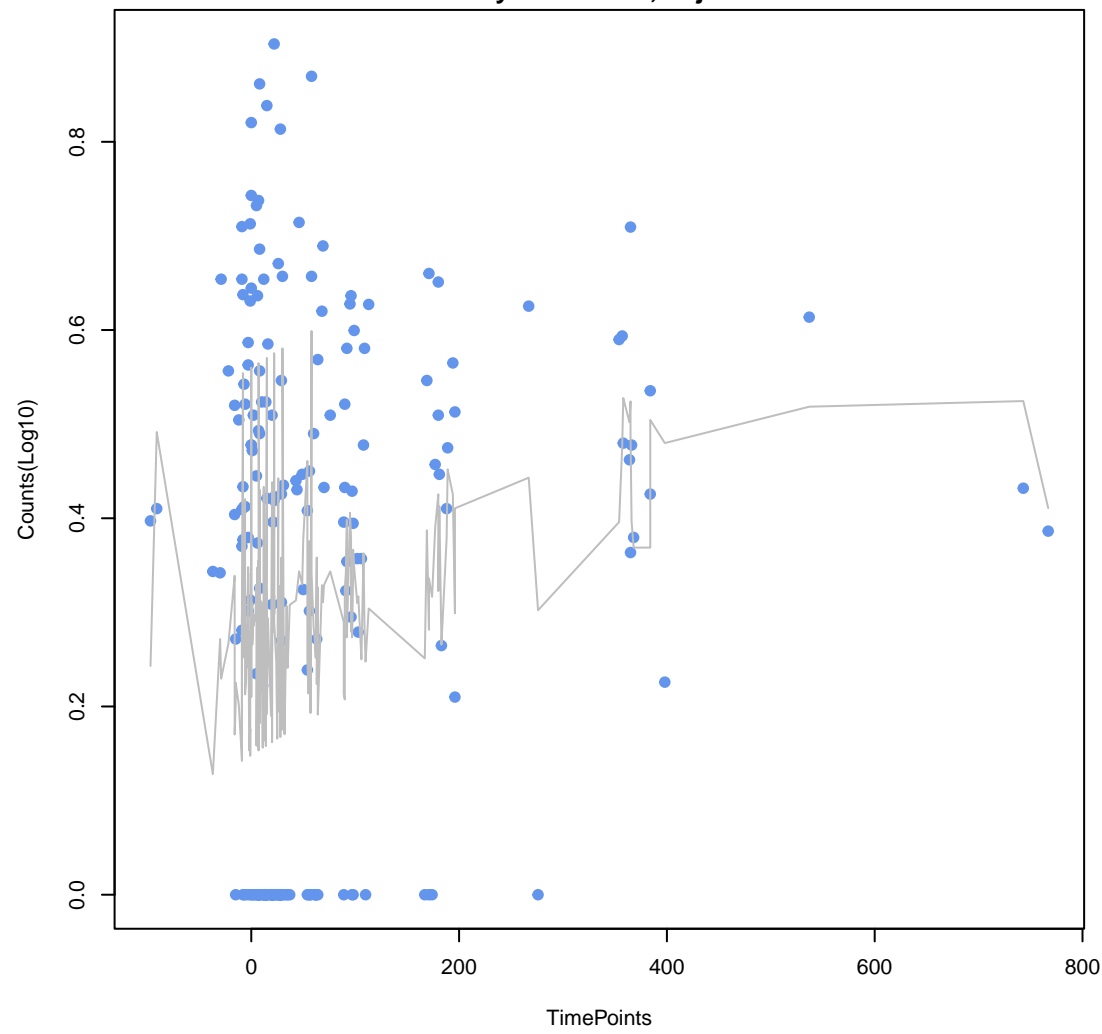
**vanR gene in vanE cluster**  
ANOVA  $P=0.0068$ , adj. ANOVA- $P=0.138$   
Line vs. Poly F- $P=0.00182$ , adj. F- $P=0.195$



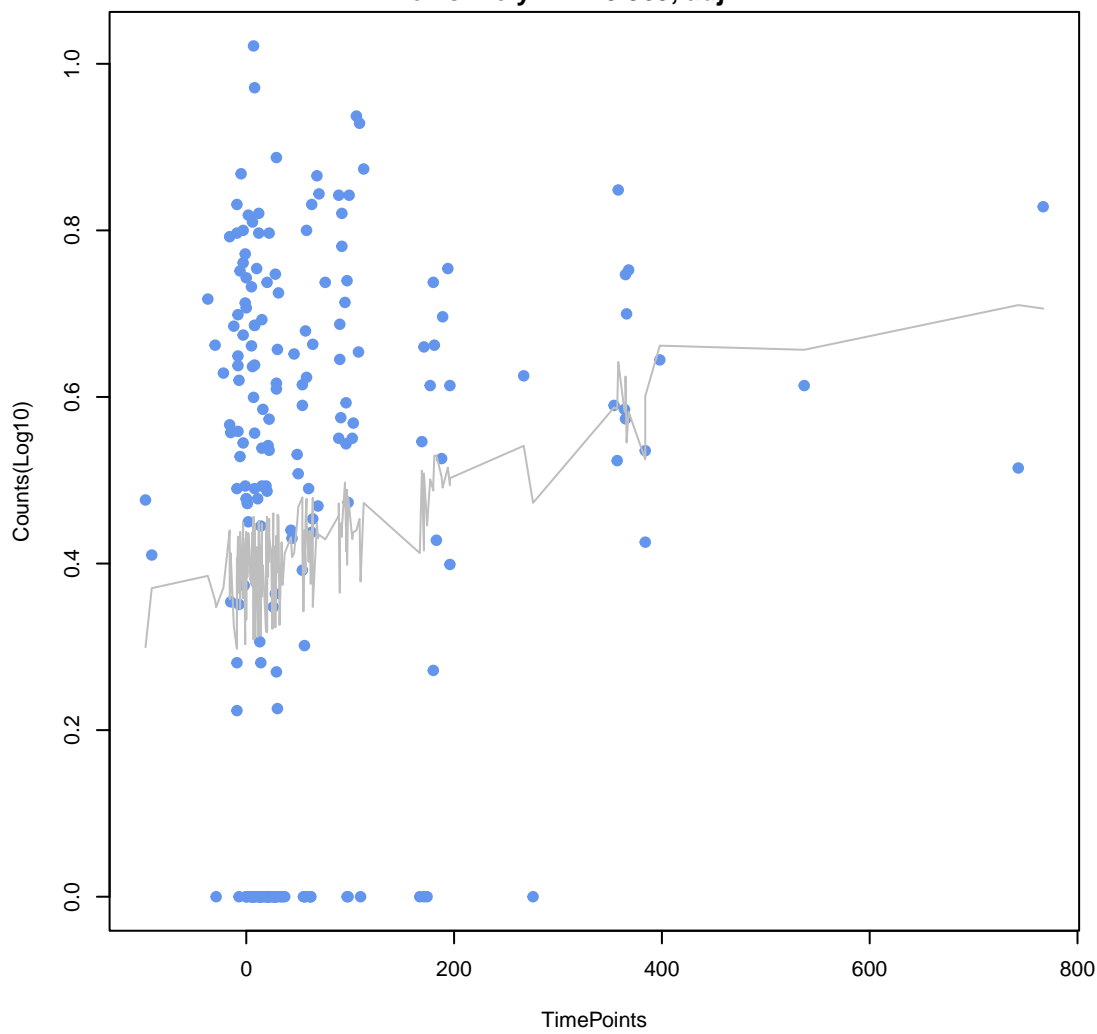
**adeA**  
ANOVA  $P=0.0069$ , adj. ANOVA- $P=0.138$   
Line vs. Poly F- $P=0.0558$ , adj. F- $P=0.648$



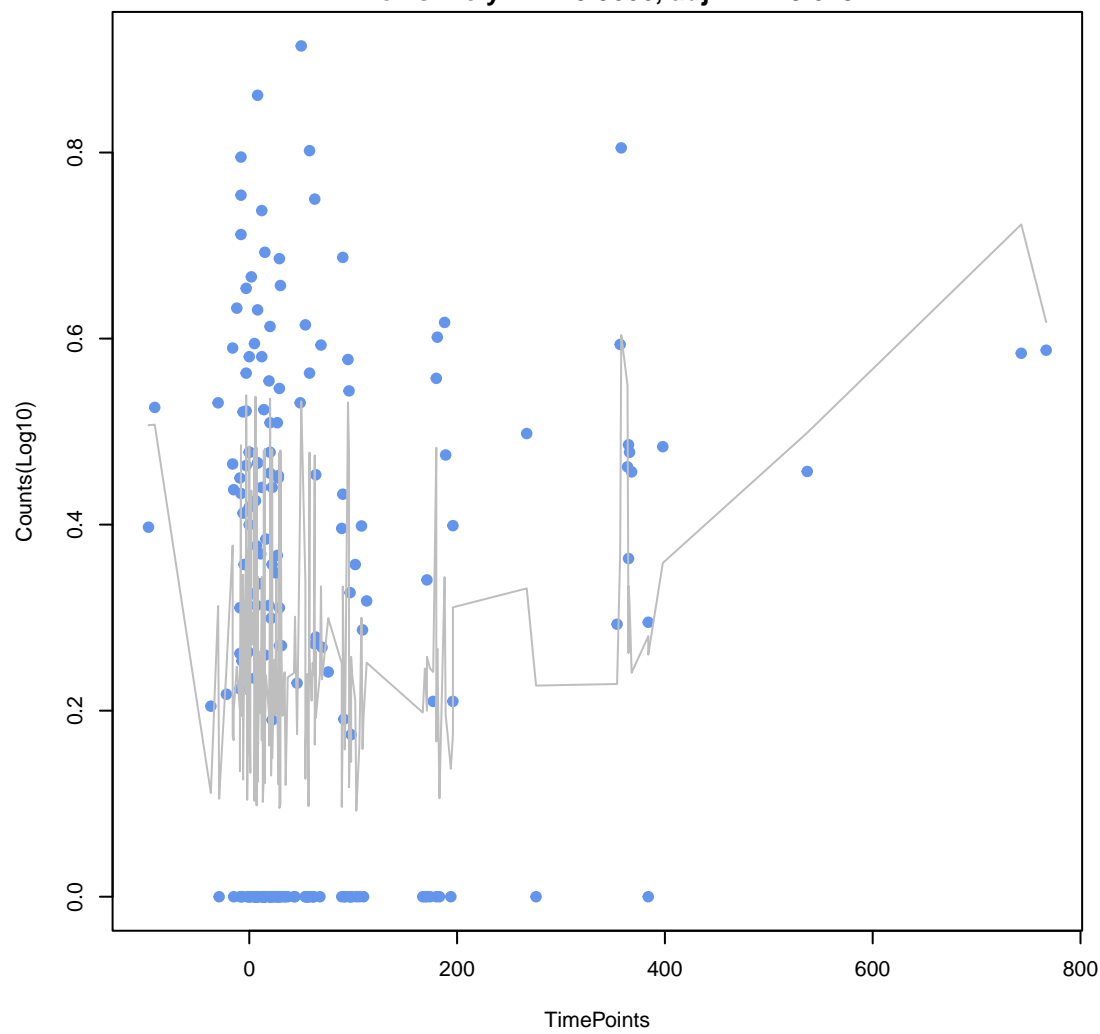
**tet(36)**  
ANOVA  $P=0.00772$ , adj. ANOVA- $P=0.138$   
Line vs. Poly F- $P=0.196$ , adj. F- $P=0.913$



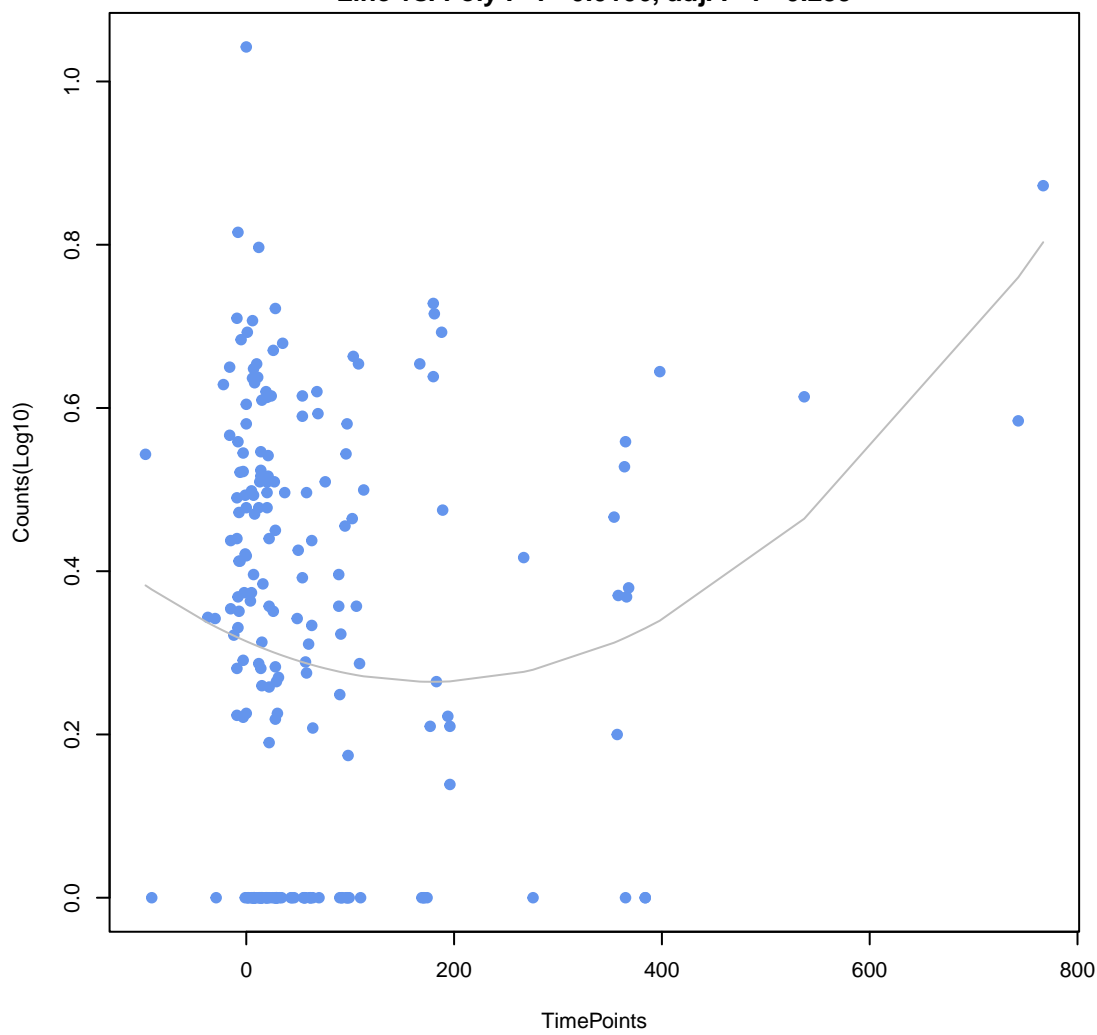
**tet(T)**  
ANOVA  $P=0.0115$ , adj. ANOVA- $P=0.176$   
Line vs. Poly F- $P=0.369$ , adj. F- $P=1$



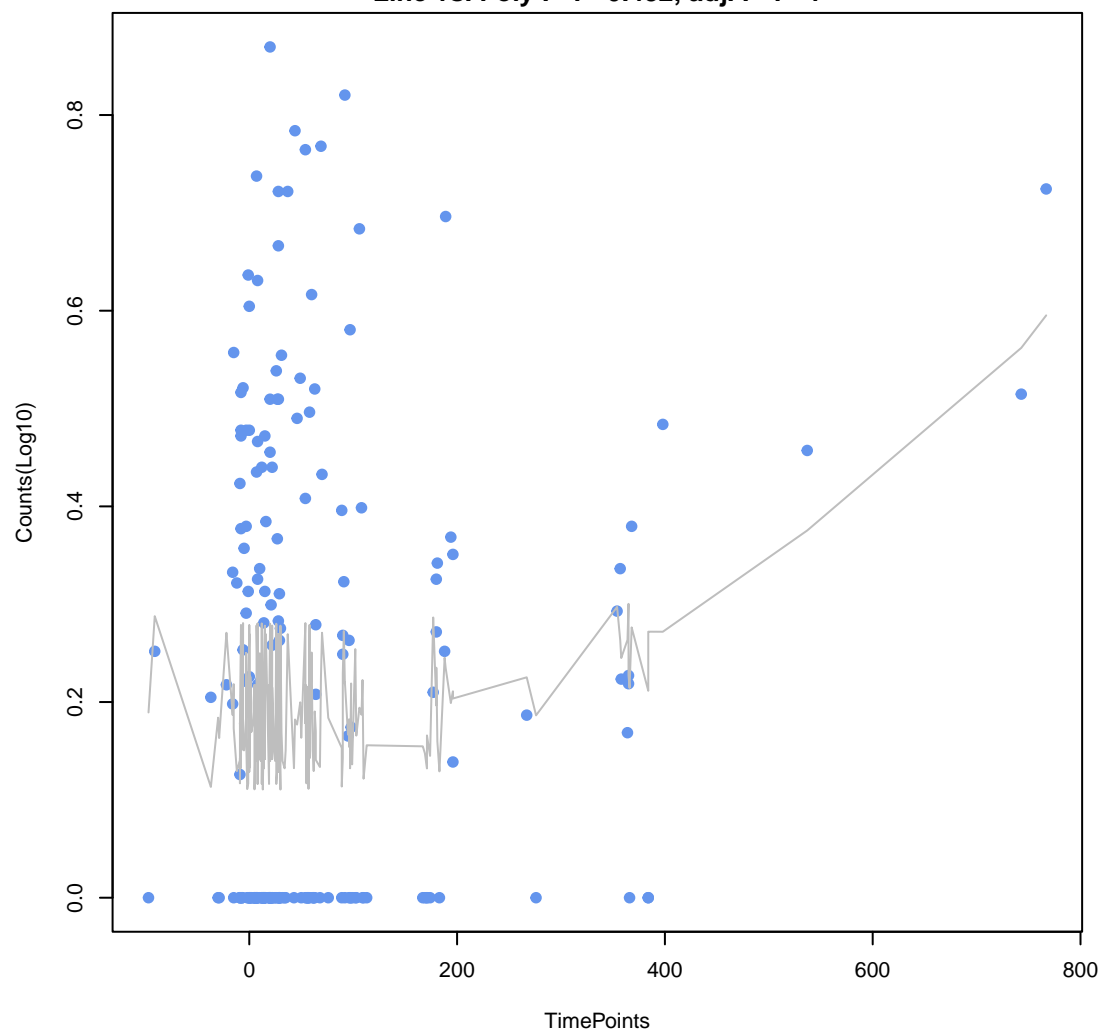
**mefH**  
ANOVA  $P=0.0137$ , adj. ANOVA- $P=0.178$   
Line vs. Poly F- $P=0.0666$ , adj. F- $P=0.648$



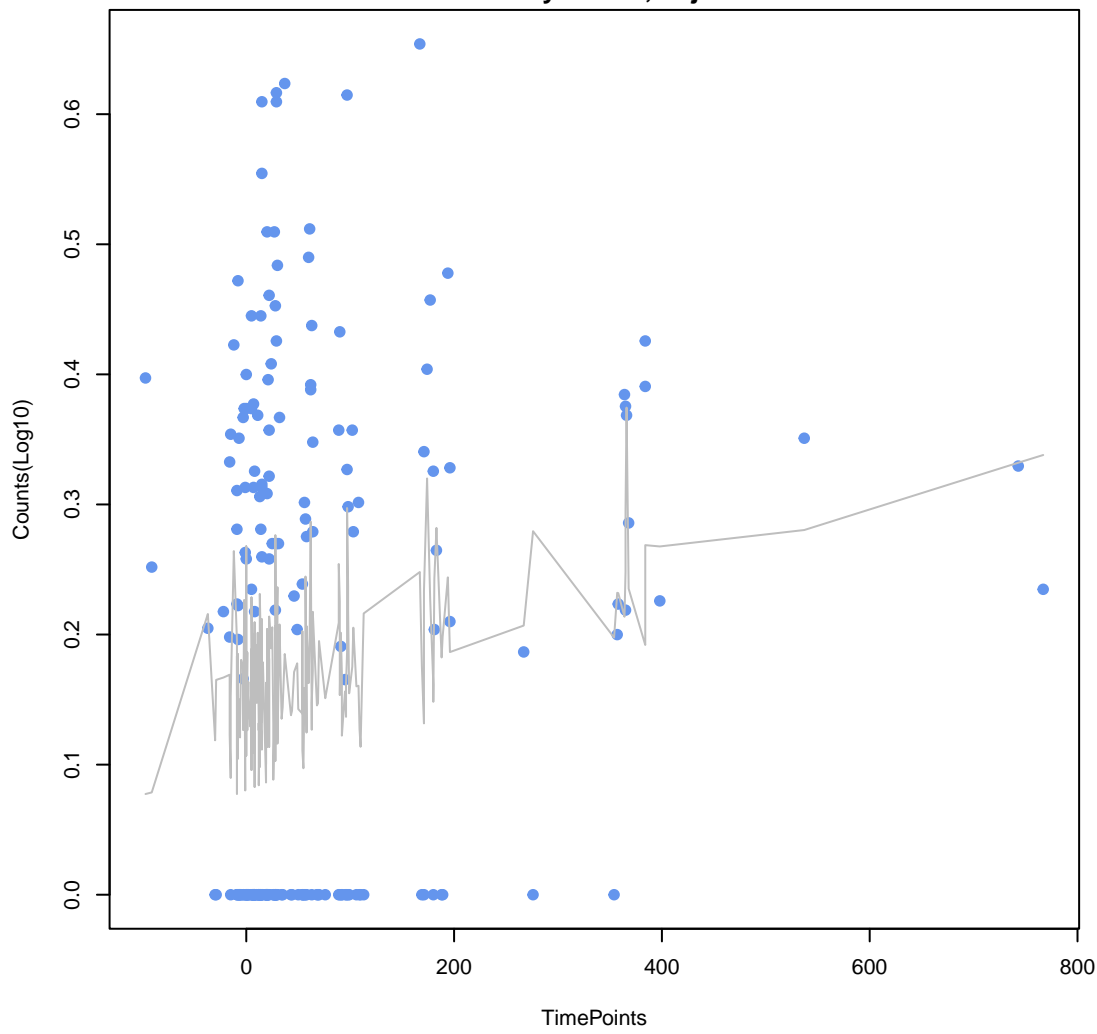
**BlaB-16**  
ANOVA  $P=0.0149$ , adj. ANOVA- $P=0.178$   
Line vs. Poly F- $P=0.0106$ , adj. F- $P=0.239$



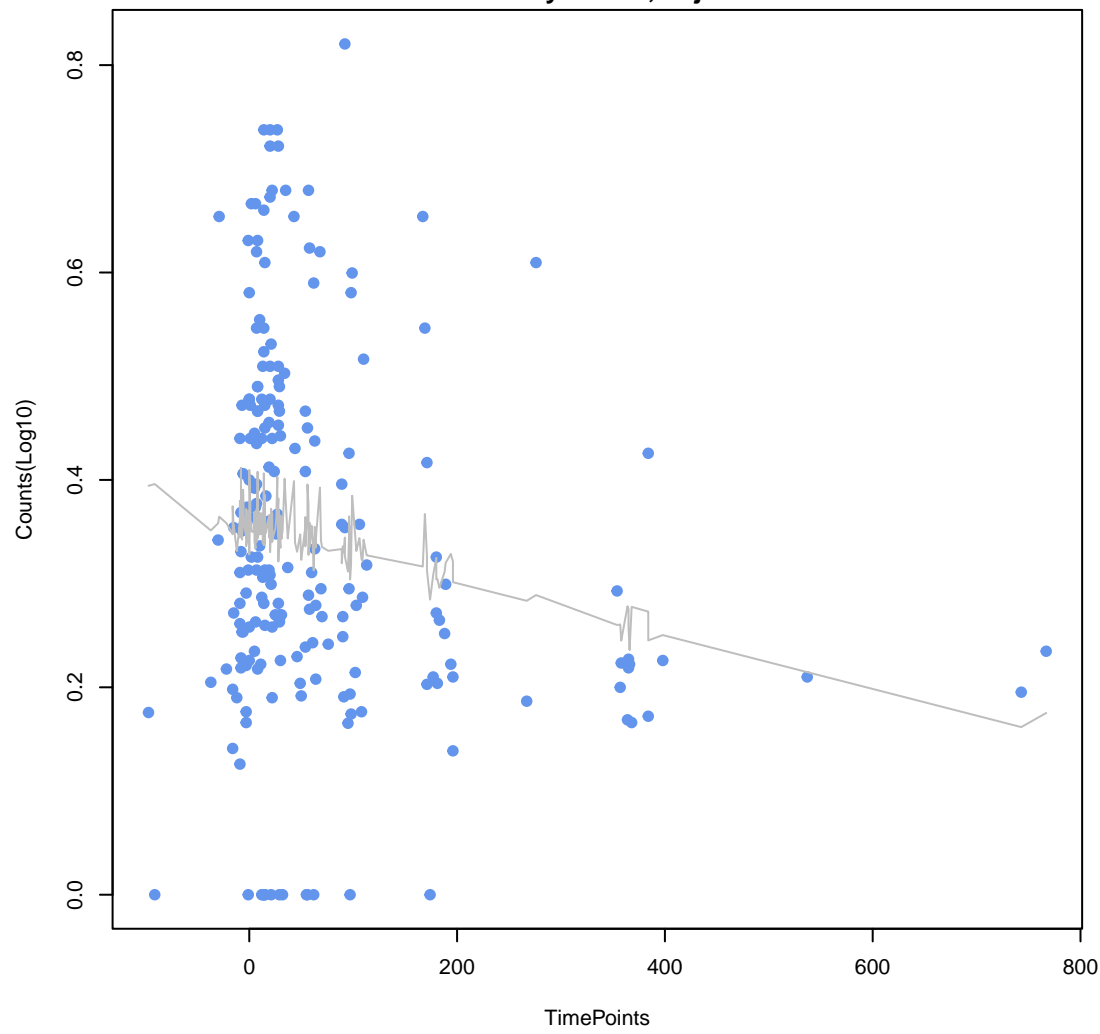
**tet(44)**  
ANOVA  $P=0.0228$ , adj. ANOVA- $P=0.244$   
Line vs. Poly F- $P=0.432$ , adj. F- $P=1$



**bacA**  
ANOVA  $P=0.0288$ , adj. ANOVA- $P=0.28$   
Line vs. Poly F- $P=1$ , adj. F- $P=1$

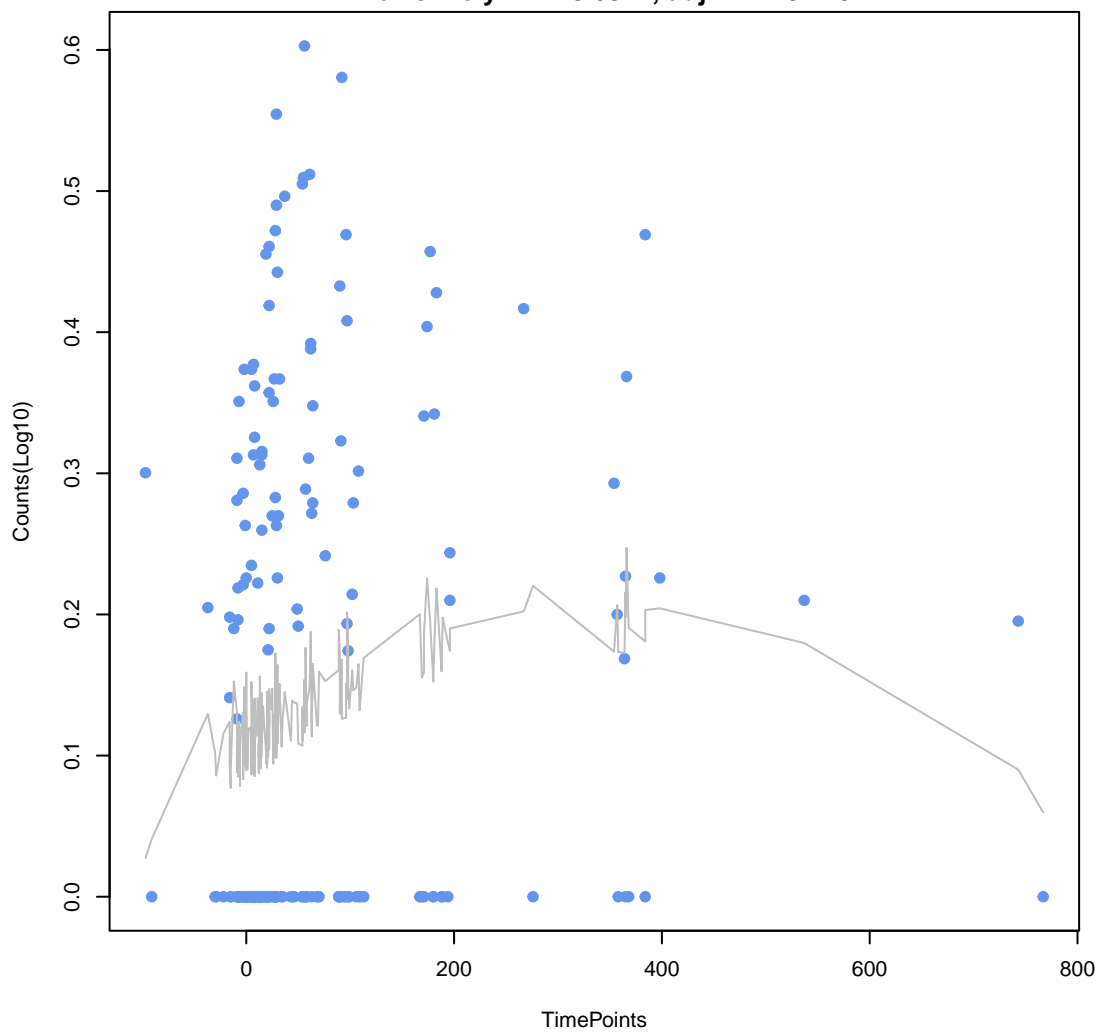


**ErmB**  
ANOVA  $P=0.0468$ , adj. ANOVA- $P=0.417$   
Line vs. Poly F- $P=1$ , adj. F- $P=1$



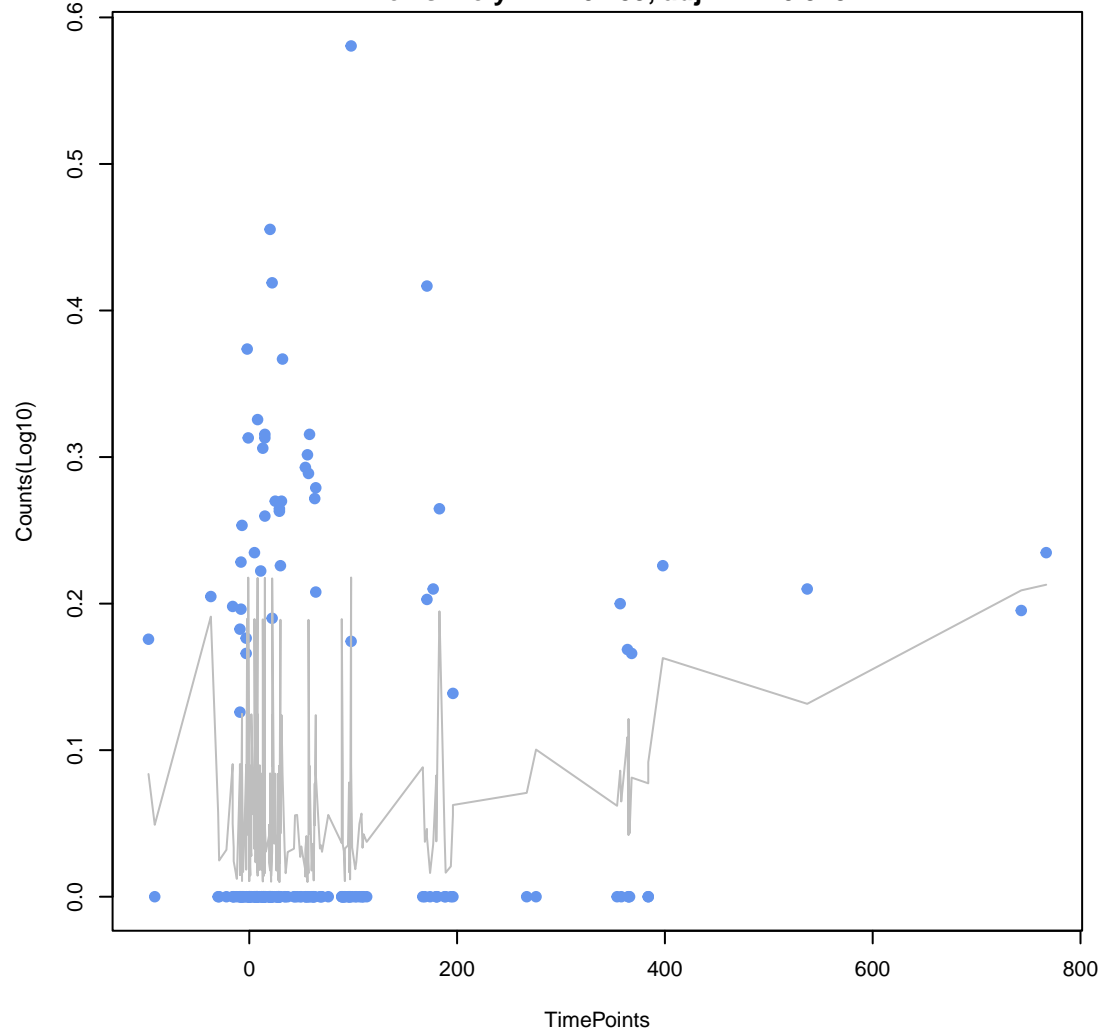
**emrB**

ANOVA  $P=0.0571$ , adj. ANOVA- $P=0.432$   
Line vs. Poly F- $P=0.0974$ , adj. F- $P=0.745$



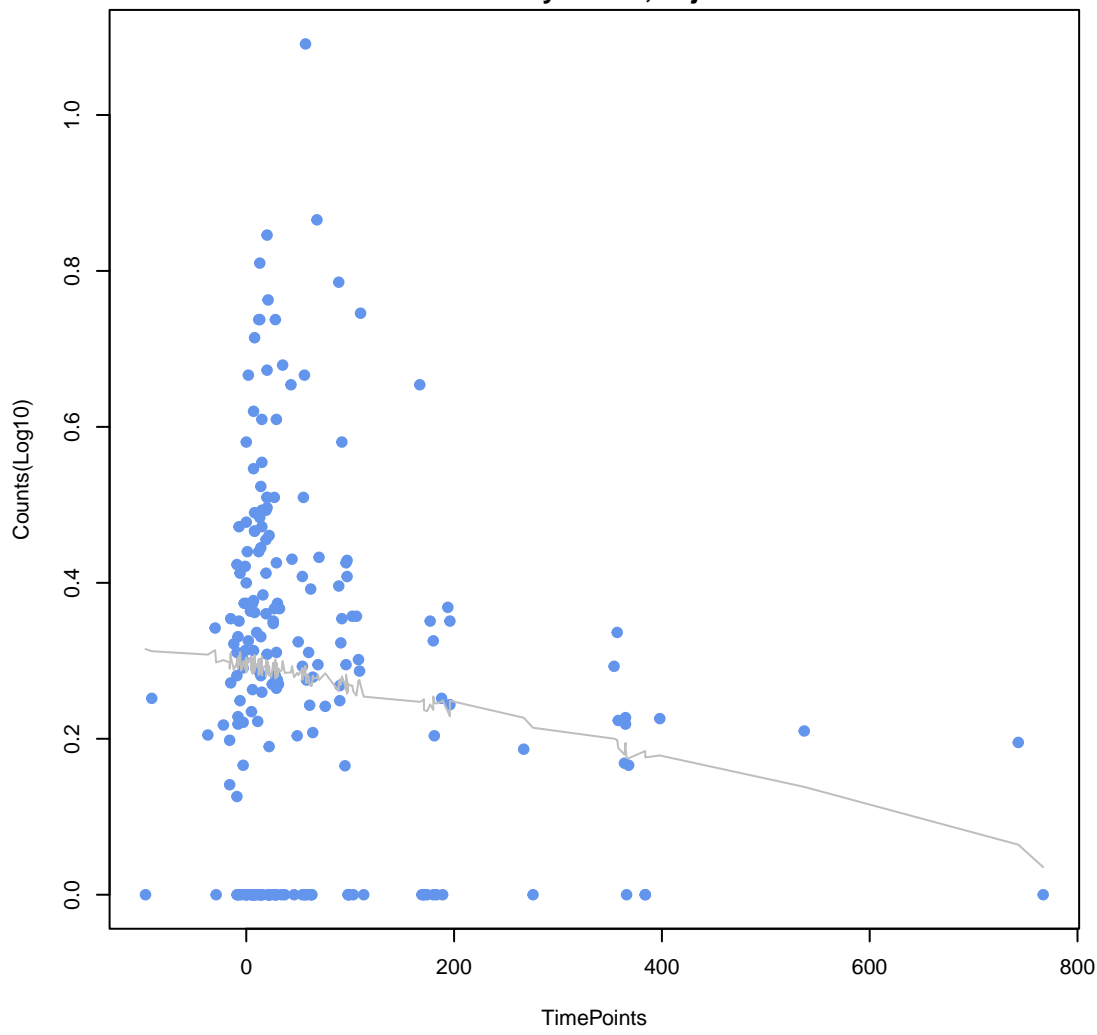
**gadW**

ANOVA  $P=0.0606$ , adj. ANOVA- $P=0.432$   
Line vs. Poly F- $P=0.239$ , adj. F- $P=0.948$



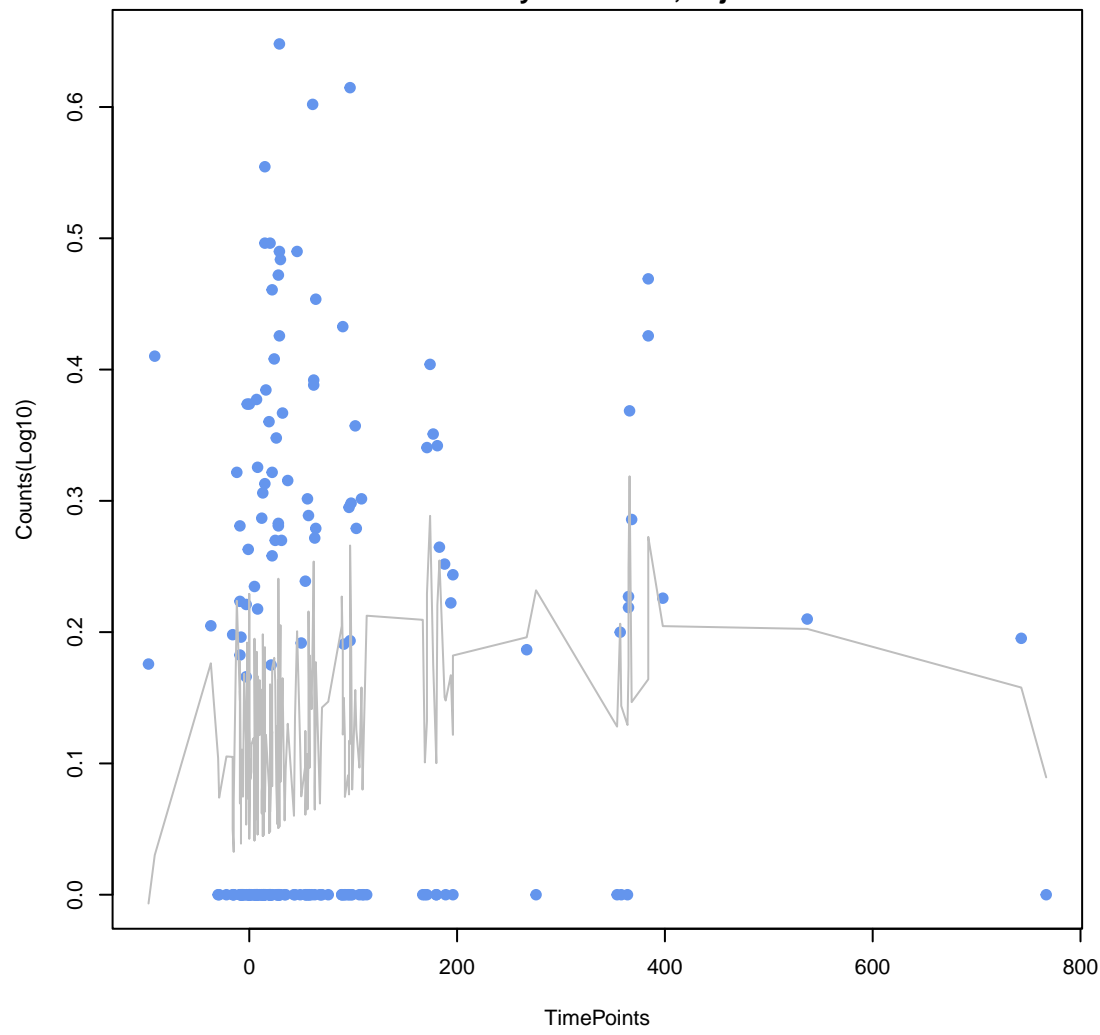
**ErmF**

ANOVA  $P=0.0641$ , adj. ANOVA- $P=0.432$   
Line vs. Poly F- $P=1$ , adj. F- $P=1$



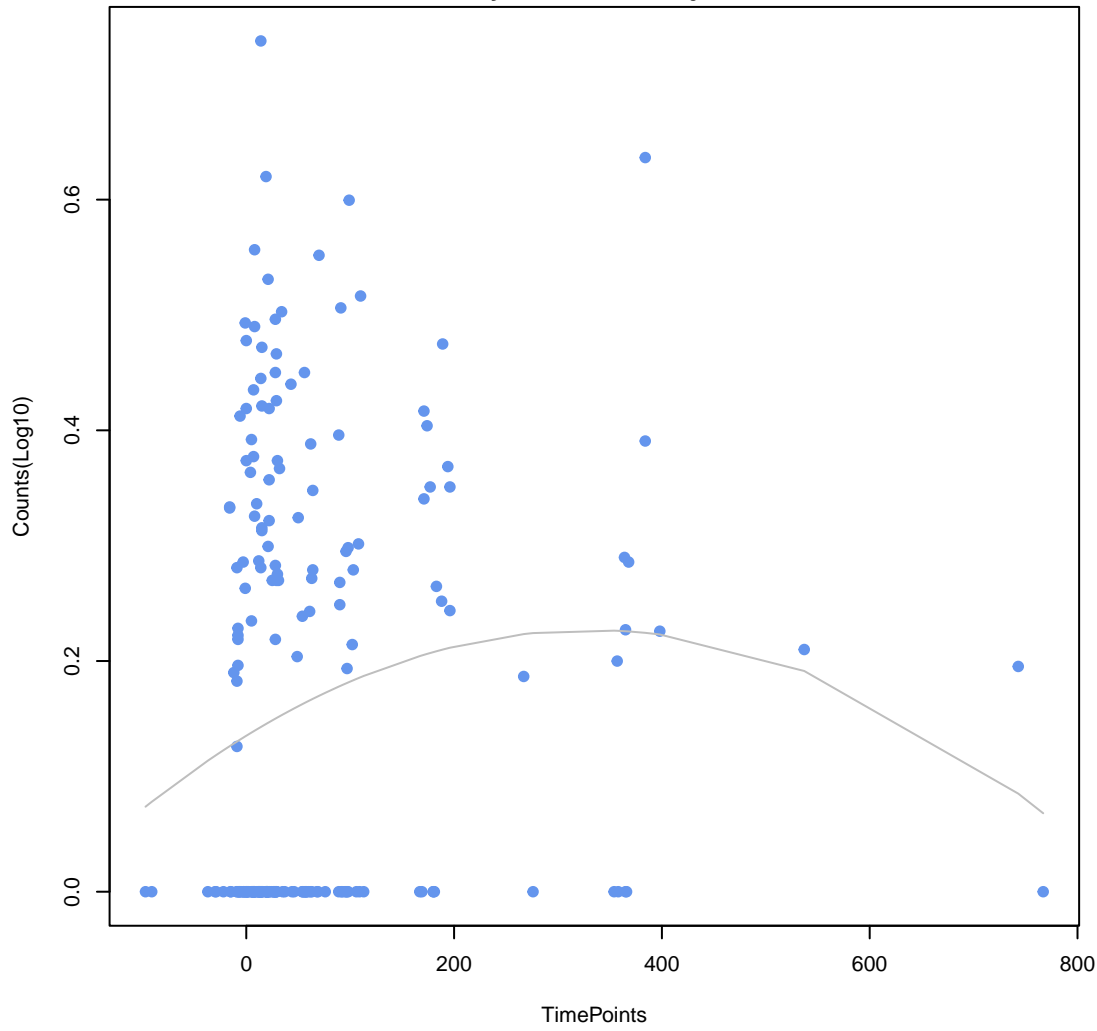
**sch**erichia coli AcrAB-TolC with MarR mutations conferring resistance to ciprofloxacin and

ANOVA  $P=0.0668$ , adj. ANOVA- $P=0.432$   
Line vs. Poly F- $P=0.309$ , adj. F- $P=1$



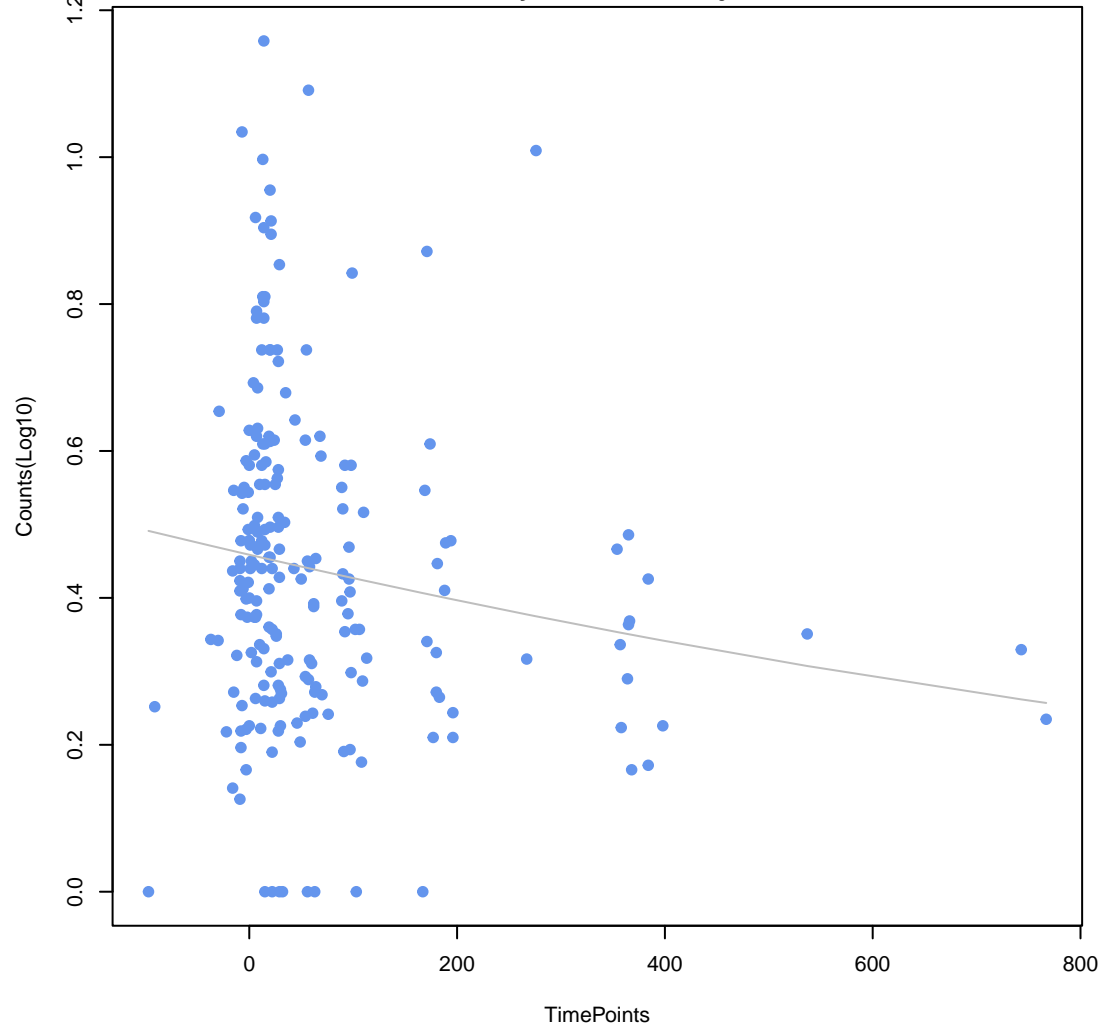
**mdtM**

ANOVA  $P=0.0748$ , adj. ANOVA- $P=0.432$   
Line vs. Poly F- $P=0.062$ , adj. F- $P=0.648$

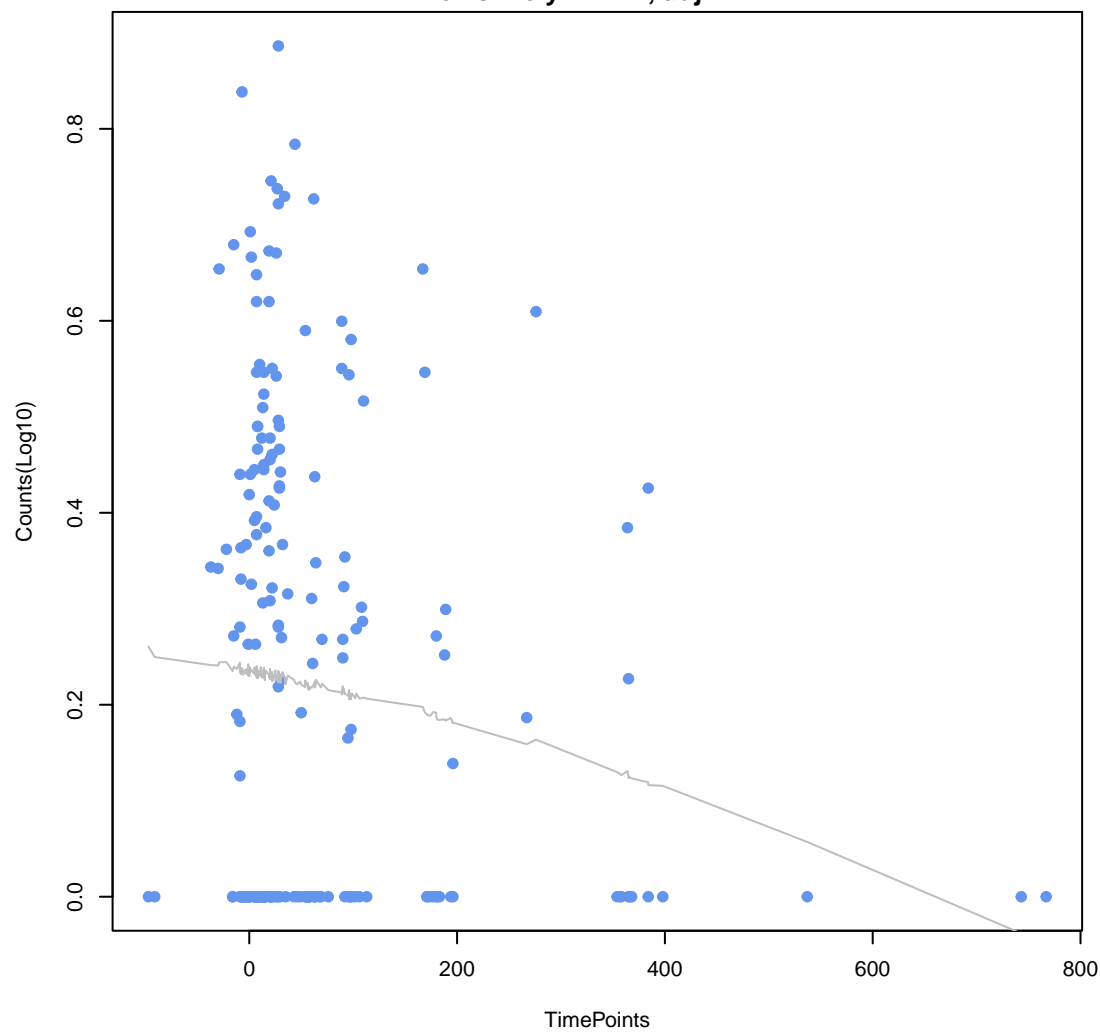


**tet(W)**

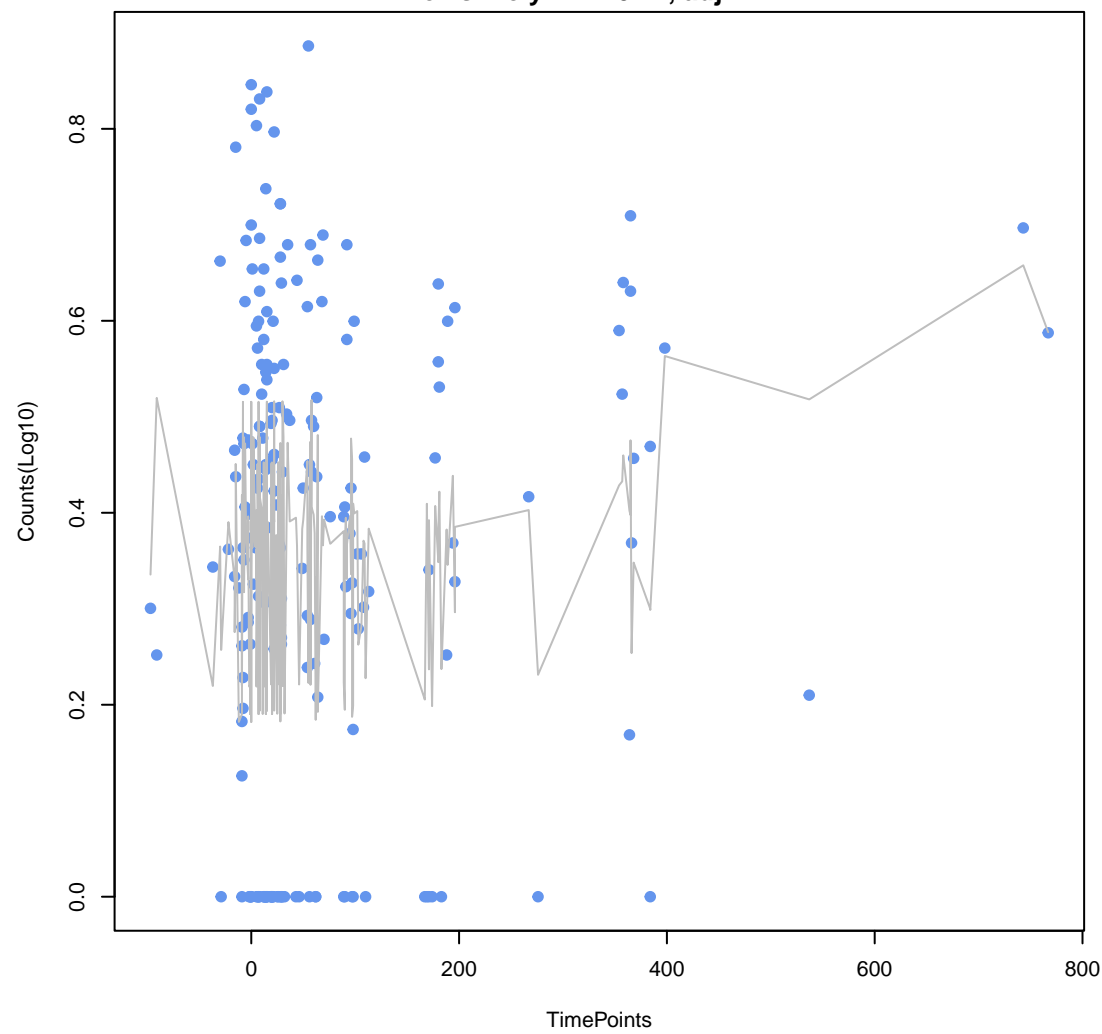
ANOVA  $P=0.0766$ , adj. ANOVA- $P=0.432$   
Line vs. Poly F- $P=0.872$ , adj. F- $P=1$



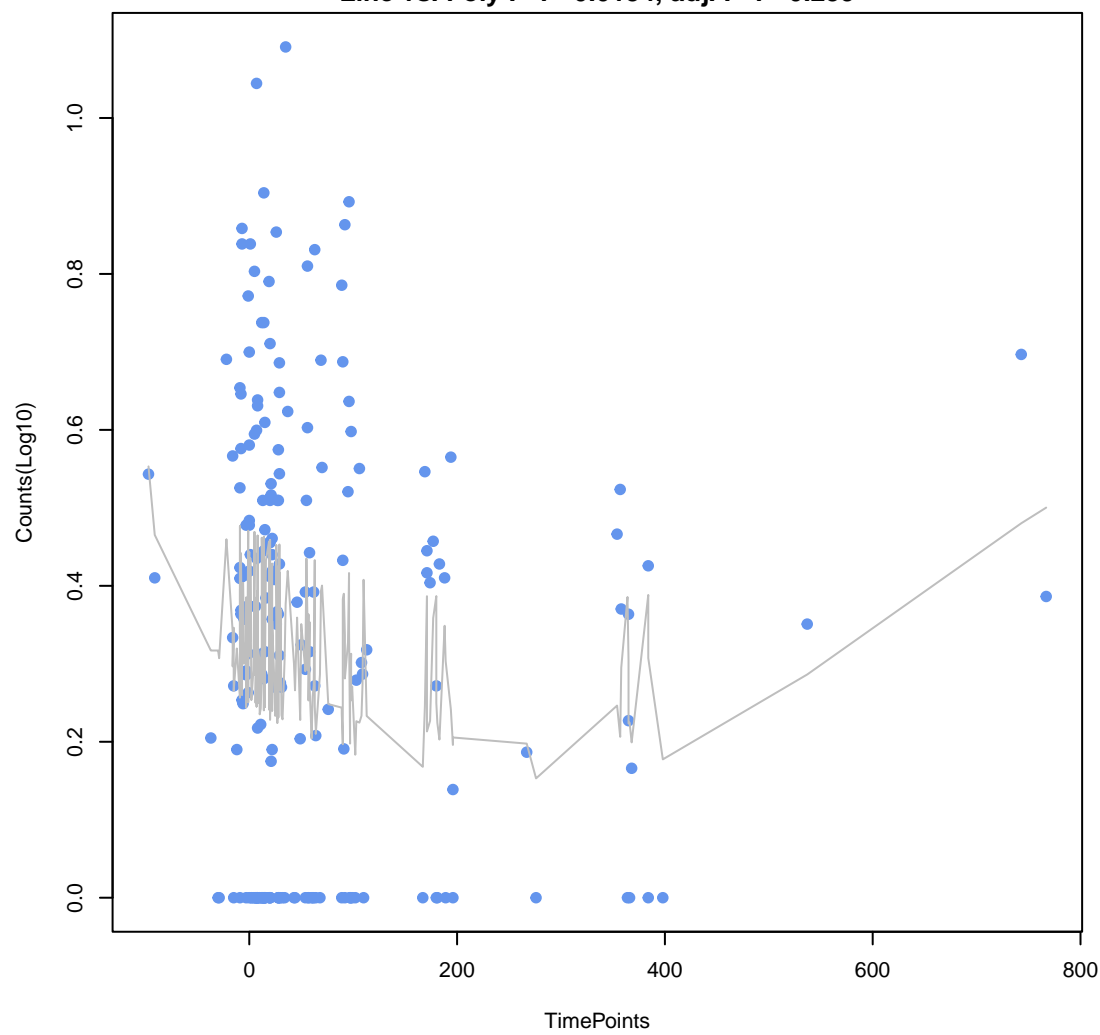
**vanH gene in vanA cluster**  
ANOVA P=0.0768, adj. ANOVA-P=0.432  
Line vs. Poly F-P=1, adj. F-P=1



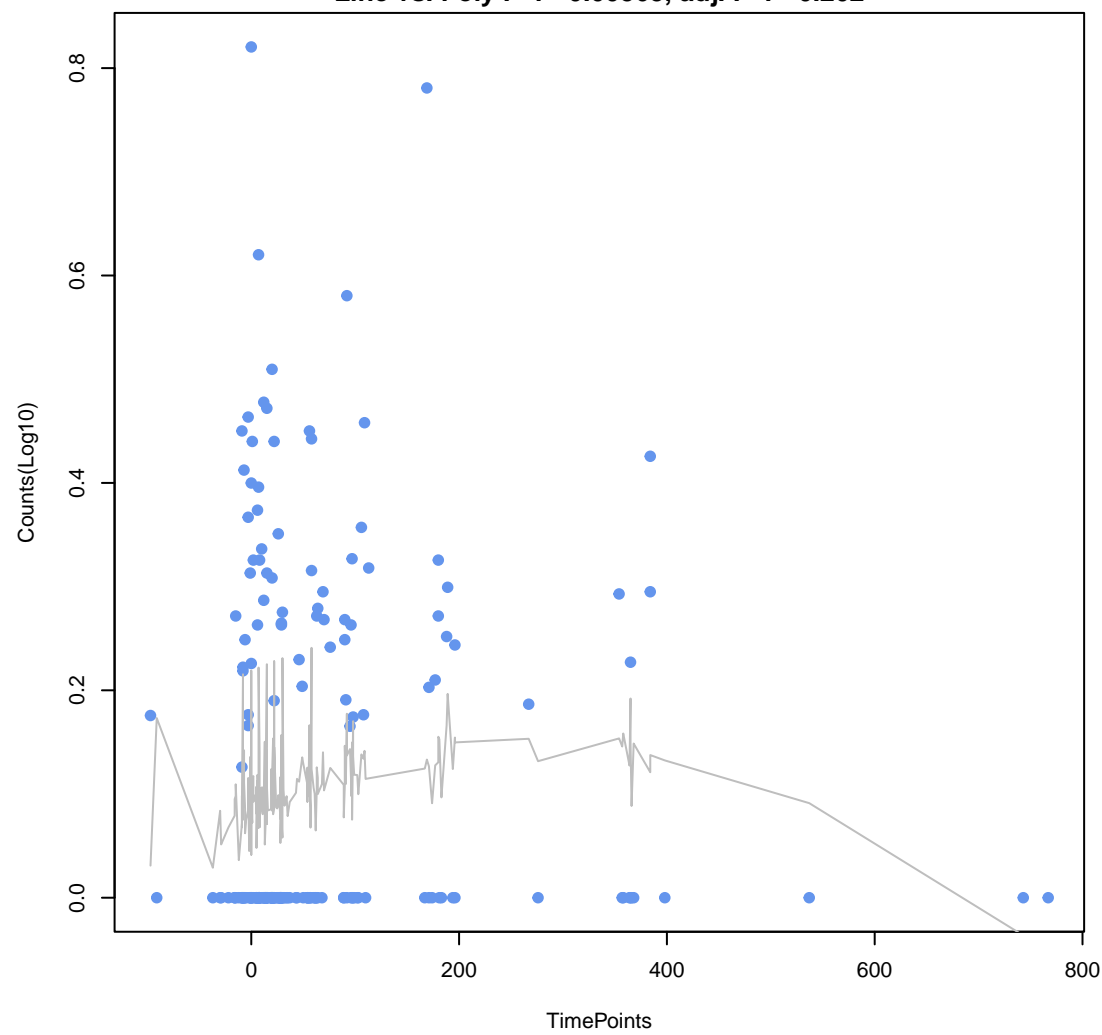
**tet(32)**  
ANOVA P=0.0938, adj. ANOVA-P=0.502  
Line vs. Poly F-P=0.44, adj. F-P=1



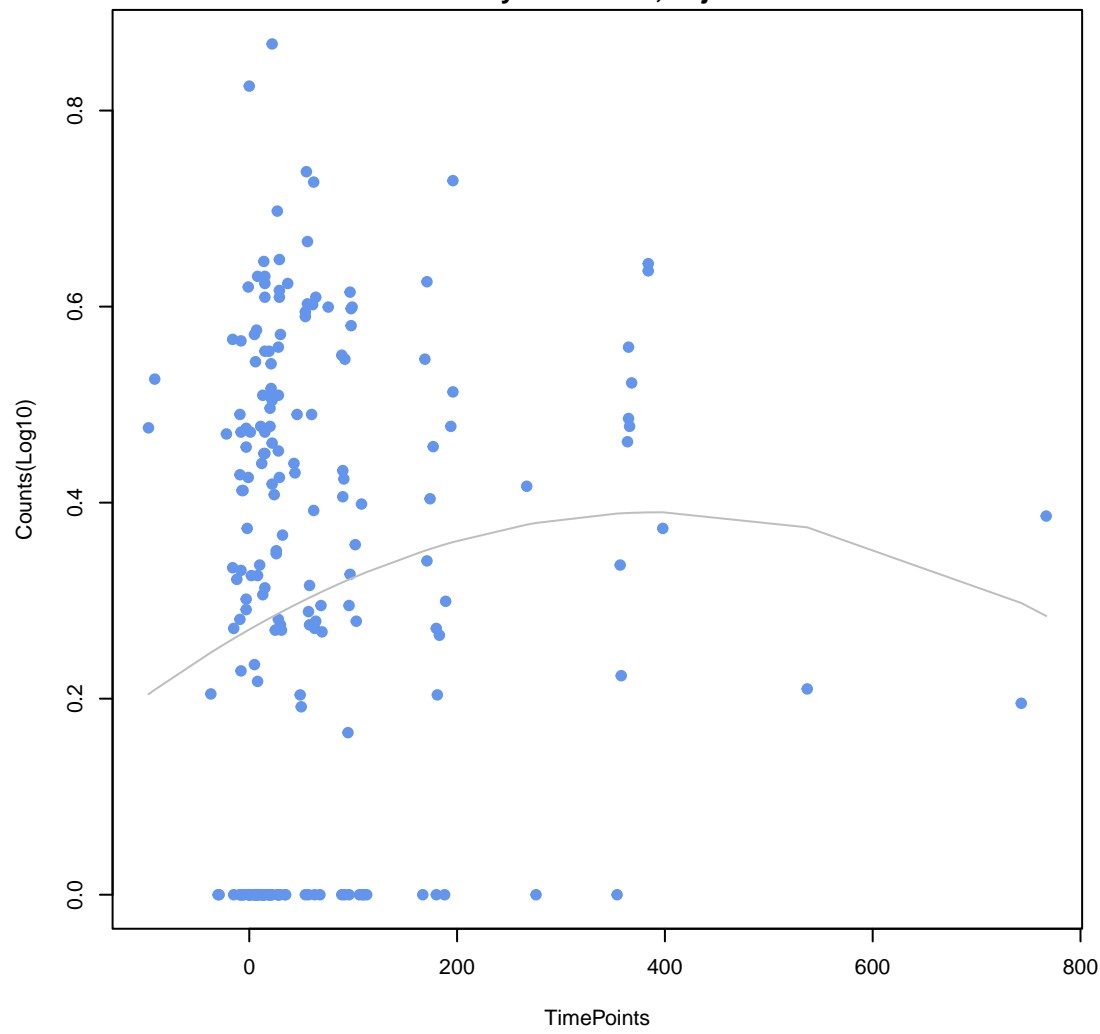
**Bifidobacterium adolescentis rpoB mutants conferring resistance to rifampicin**  
ANOVA P=0.0993, adj. ANOVA-P=0.506  
Line vs. Poly F-P=0.0134, adj. F-P=0.239



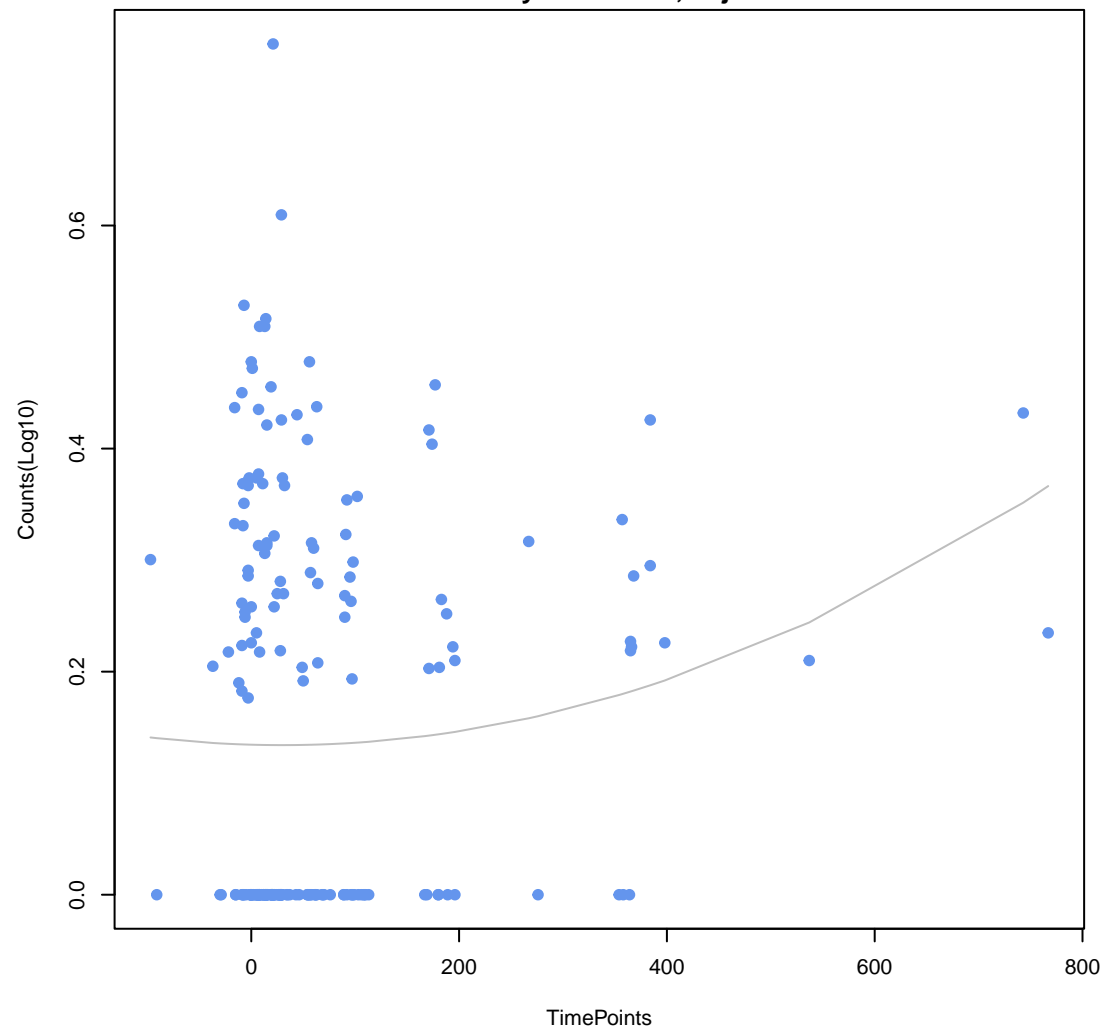
**farB**  
ANOVA P=0.107, adj. ANOVA-P=0.51  
Line vs. Poly F-P=0.00565, adj. F-P=0.202



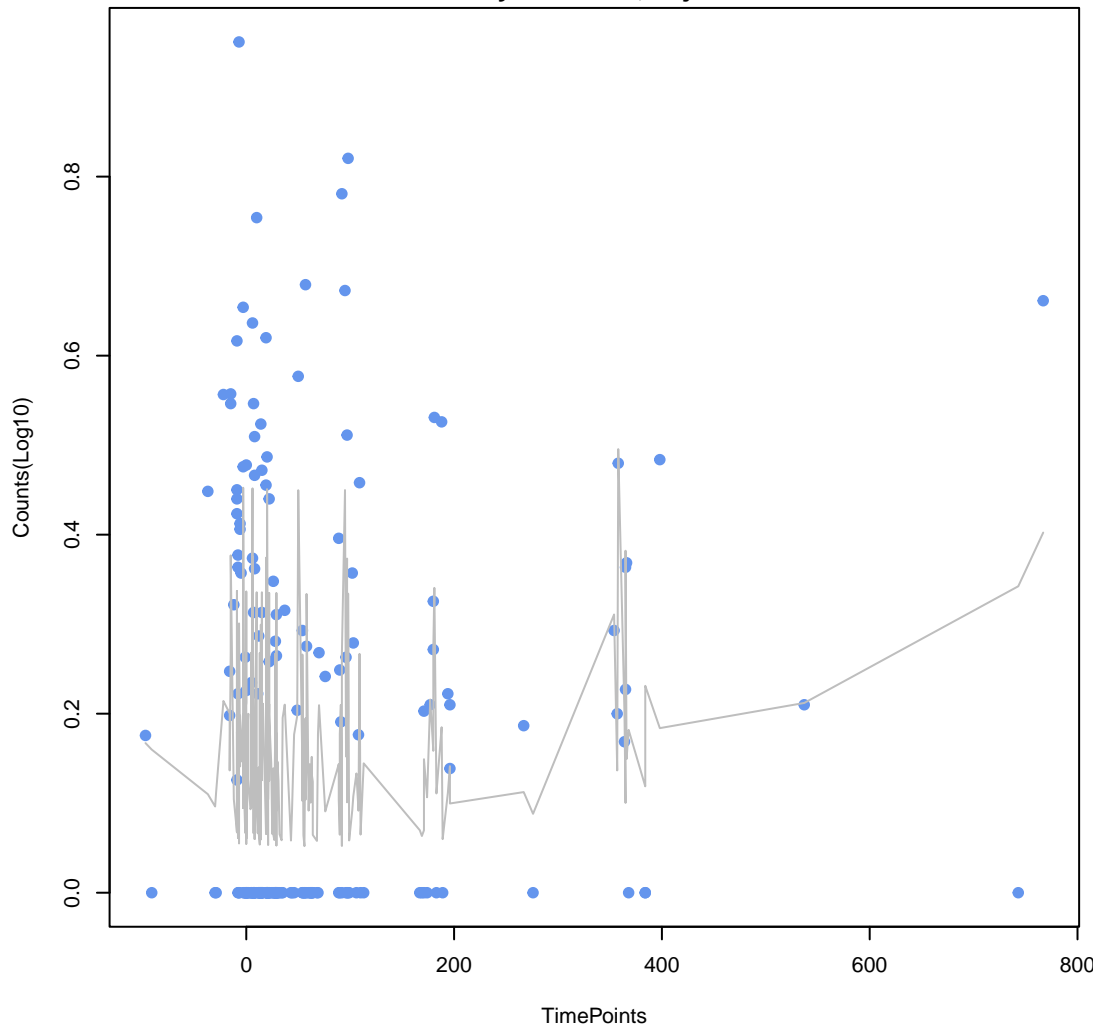
**mdtB**  
ANOVA P=0.11, adj. ANOVA-P=0.51  
Line vs. Poly F-P=0.217, adj. F-P=0.94



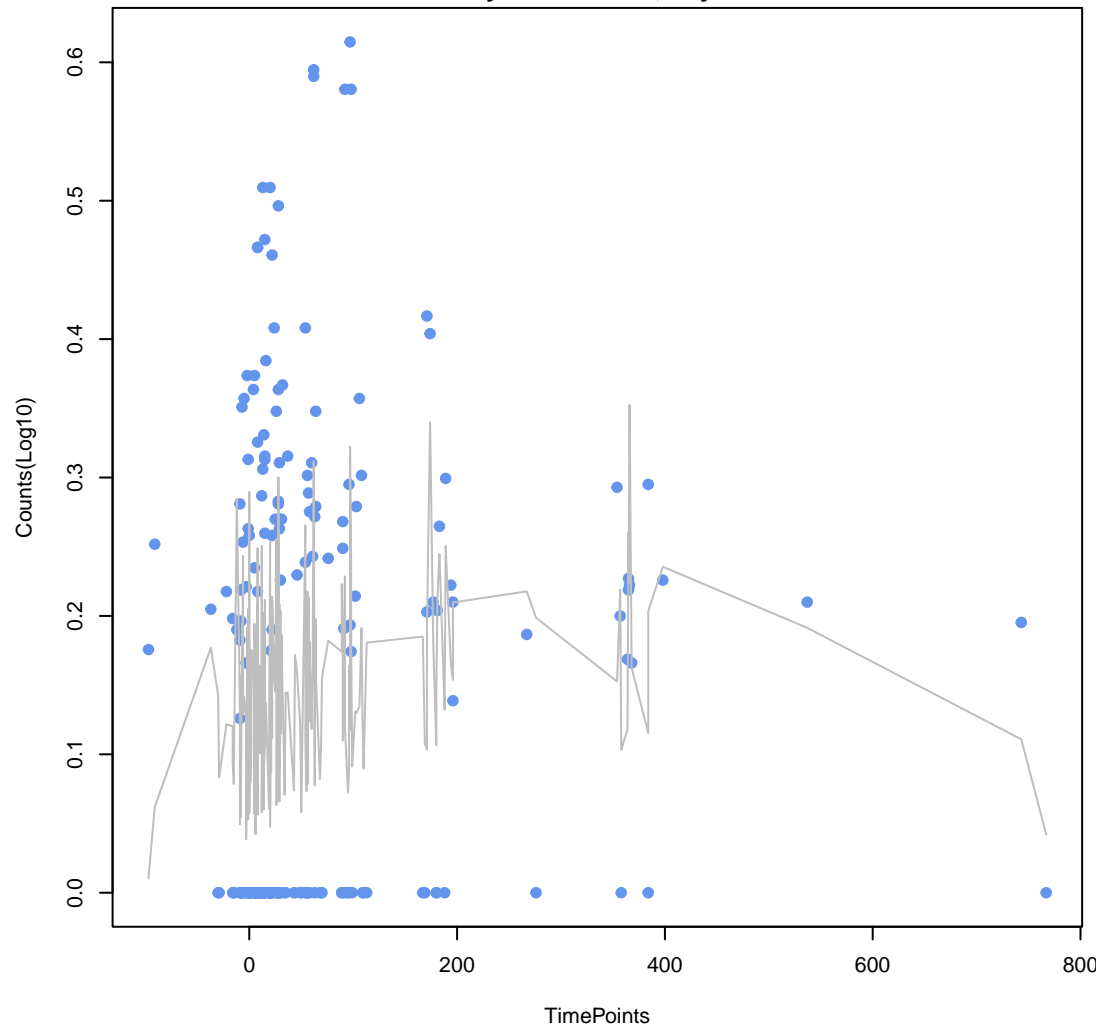
**mdtH**  
ANOVA P=0.115, adj. ANOVA-P=0.513  
Line vs. Poly F-P=0.303, adj. F-P=1



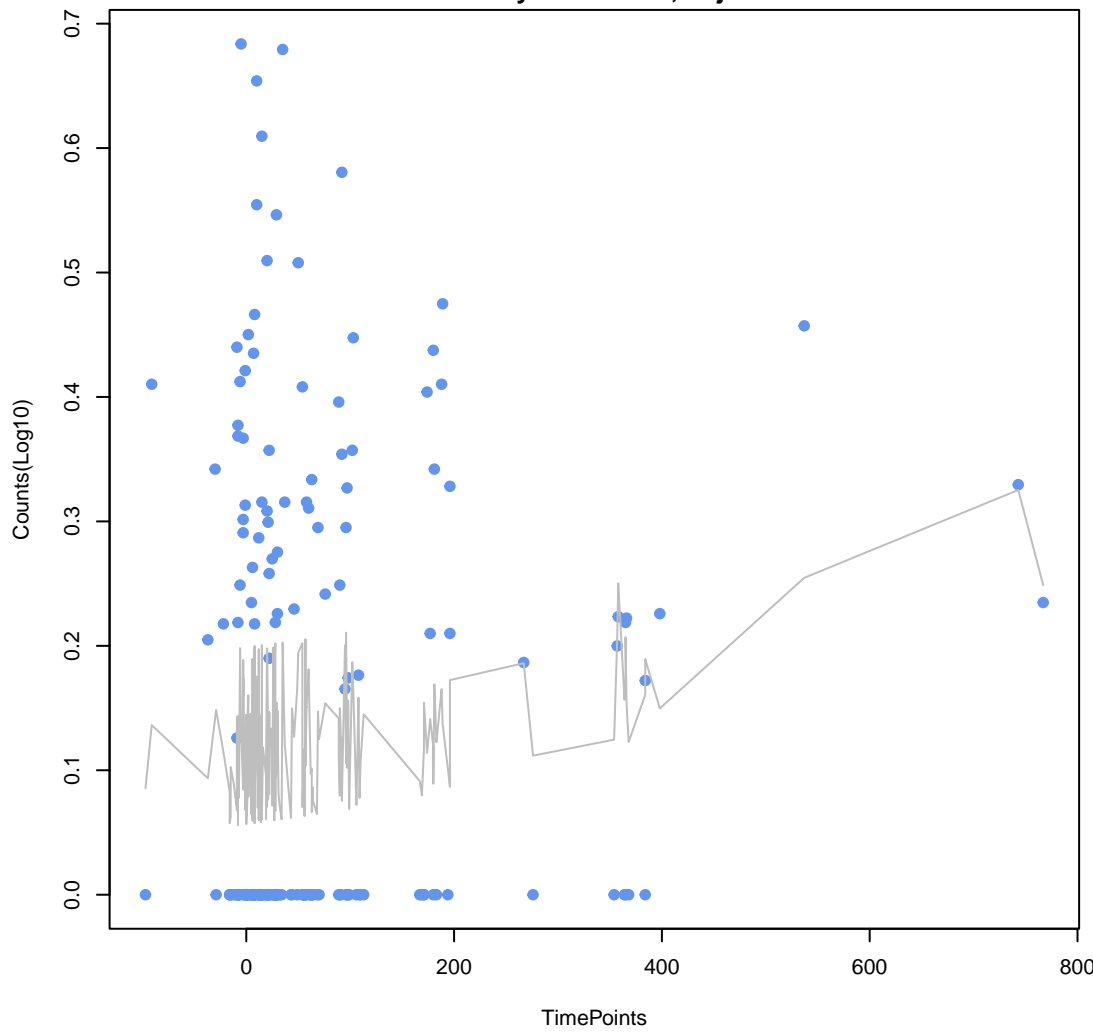
**APH(6)-Ic**  
ANOVA  $P=0.127$ , adj. ANOVA- $P=0.526$   
Line vs. Poly F- $P=0.19$ , adj. F- $P=0.913$



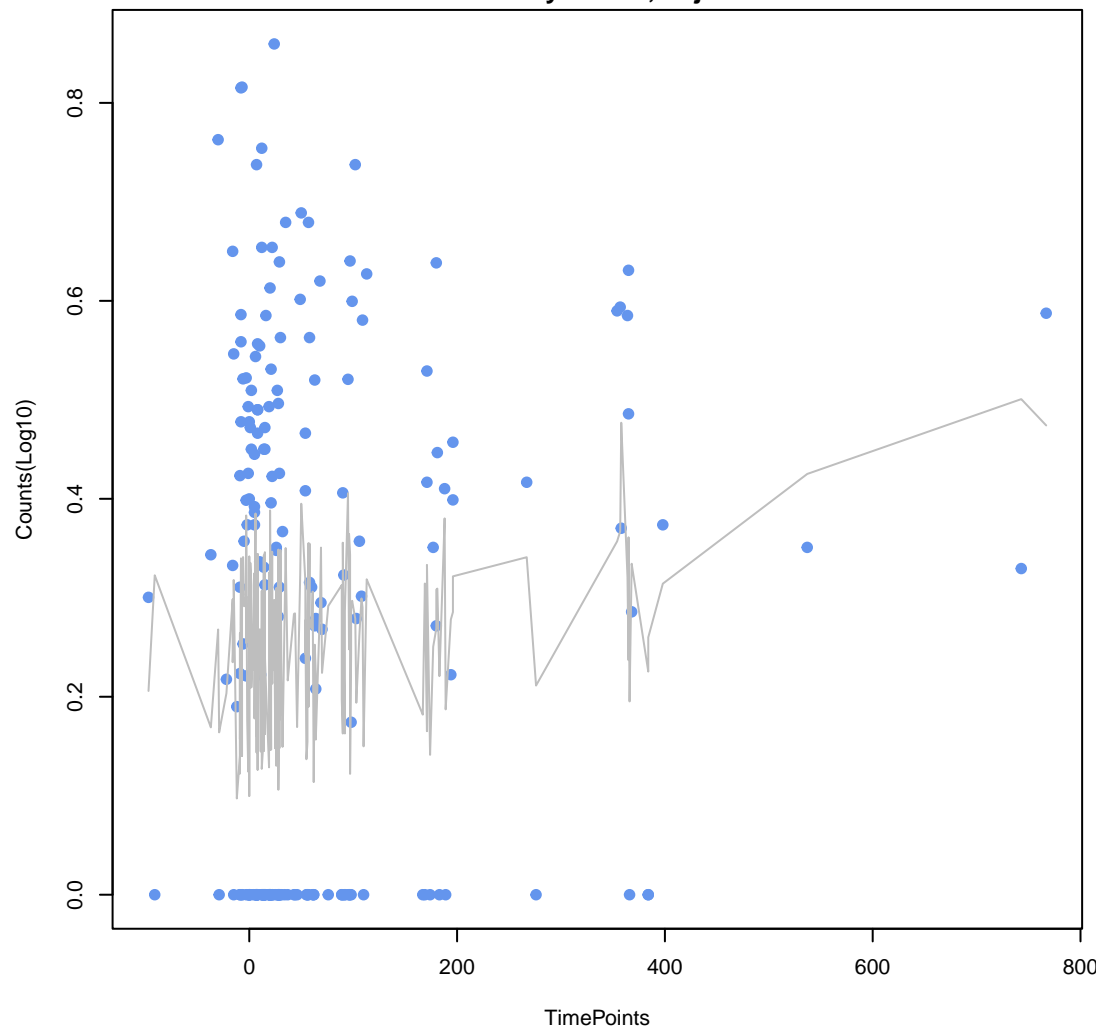
**Escherichia coli EF-Tu mutants conferring resistance to Pulvomycin**  
ANOVA  $P=0.128$ , adj. ANOVA- $P=0.526$   
Line vs. Poly F- $P=0.0823$ , adj. F- $P=0.677$



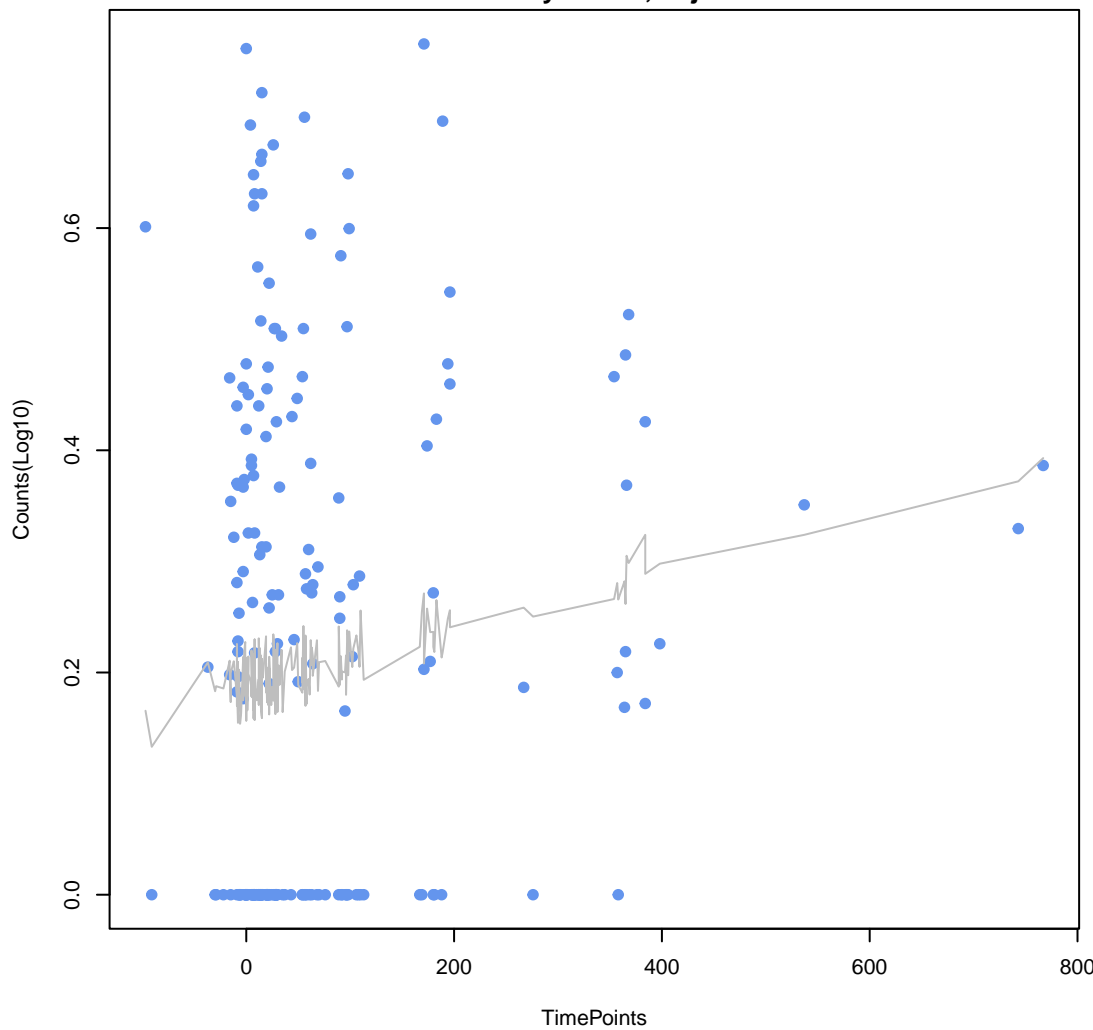
**myrA**  
ANOVA  $P=0.144$ , adj. ANOVA- $P=0.572$   
Line vs. Poly F- $P=0.818$ , adj. F- $P=1$



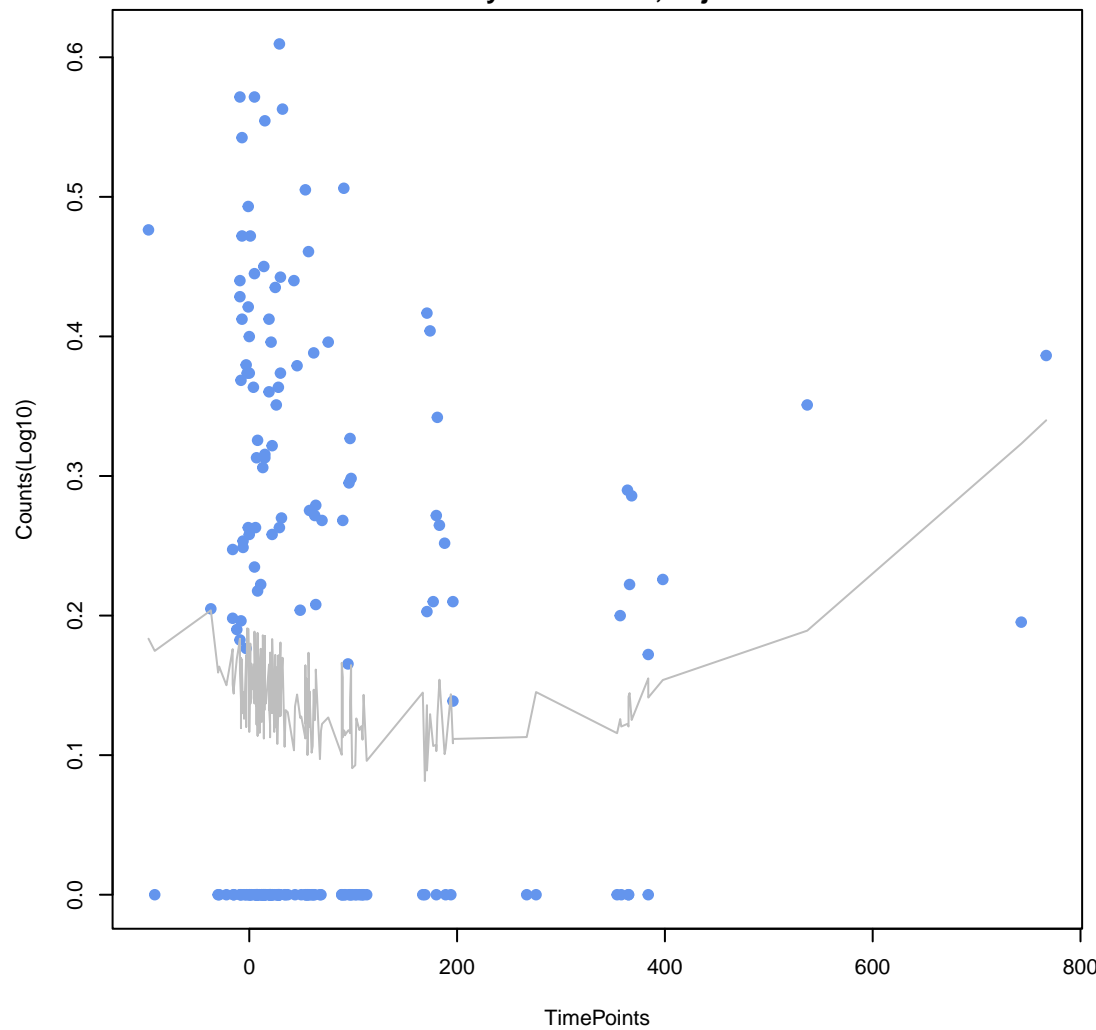
**ANA-1**  
ANOVA  $P=0.153$ , adj. ANOVA- $P=0.583$   
Line vs. Poly F- $P=1$ , adj. F- $P=1$



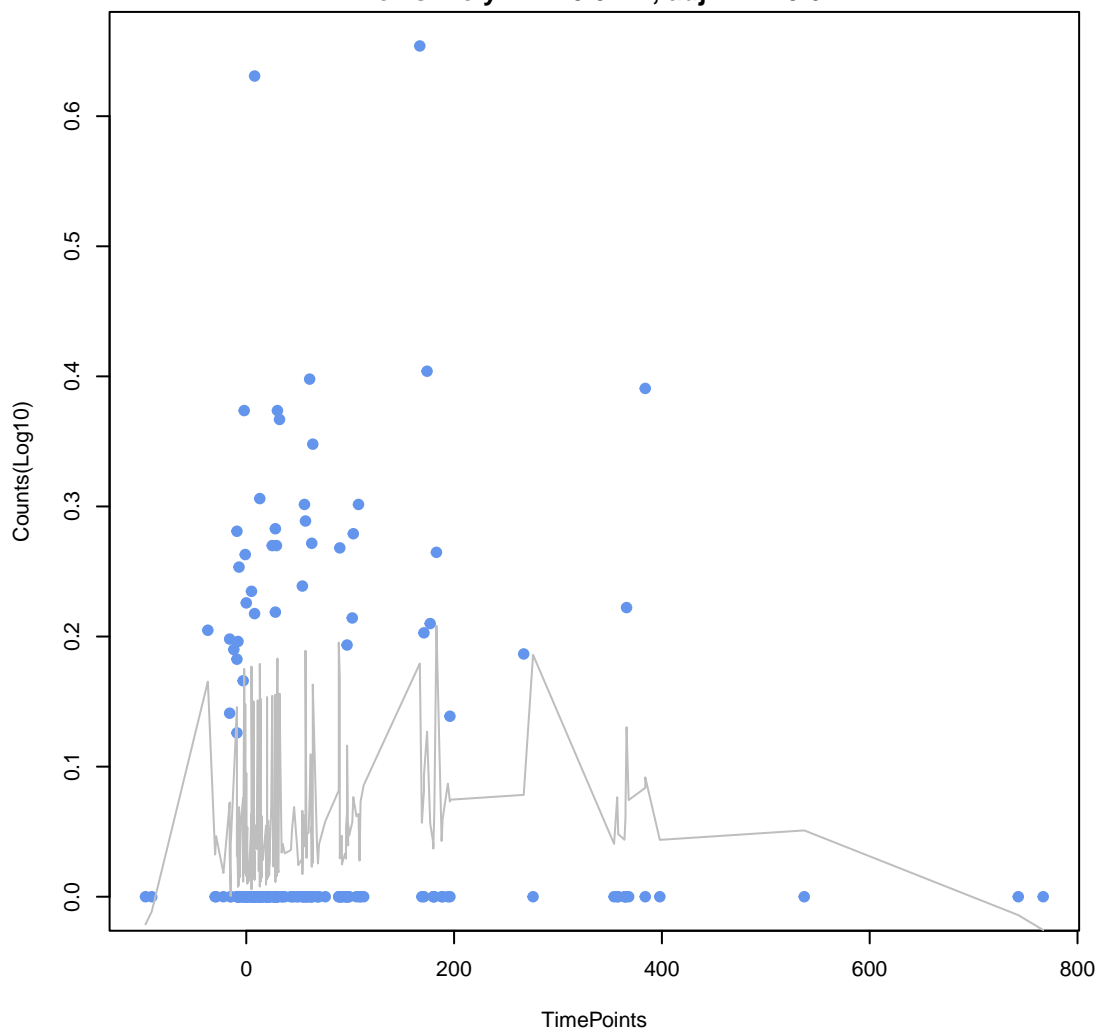
**mdtF**  
ANOVA  $P=0.166$ , adj. ANOVA- $P=0.614$   
Line vs. Poly F- $P=1$ , adj. F- $P=1$



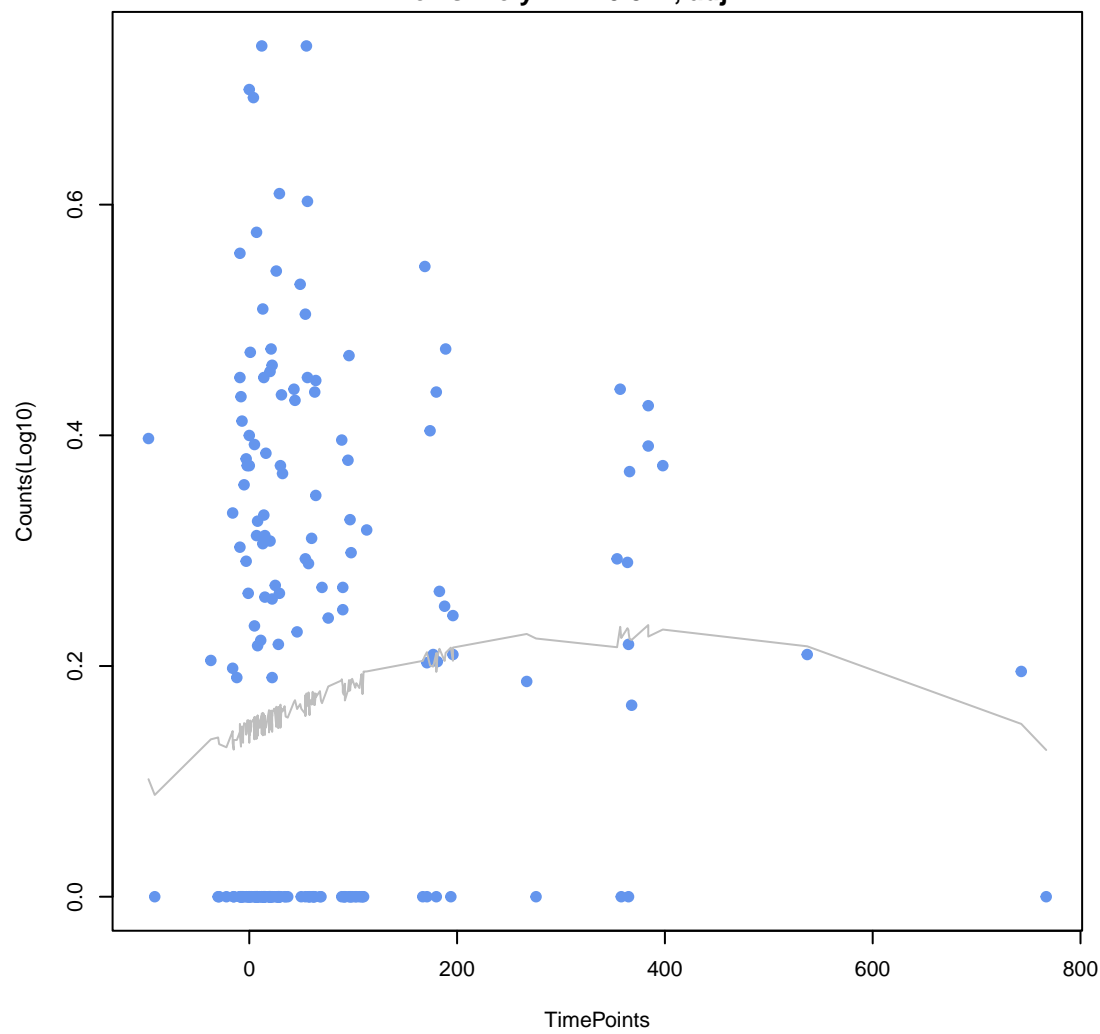
**YojI**  
ANOVA  $P=0.175$ , adj. ANOVA- $P=0.625$   
Line vs. Poly F- $P=0.0631$ , adj. F- $P=0.648$



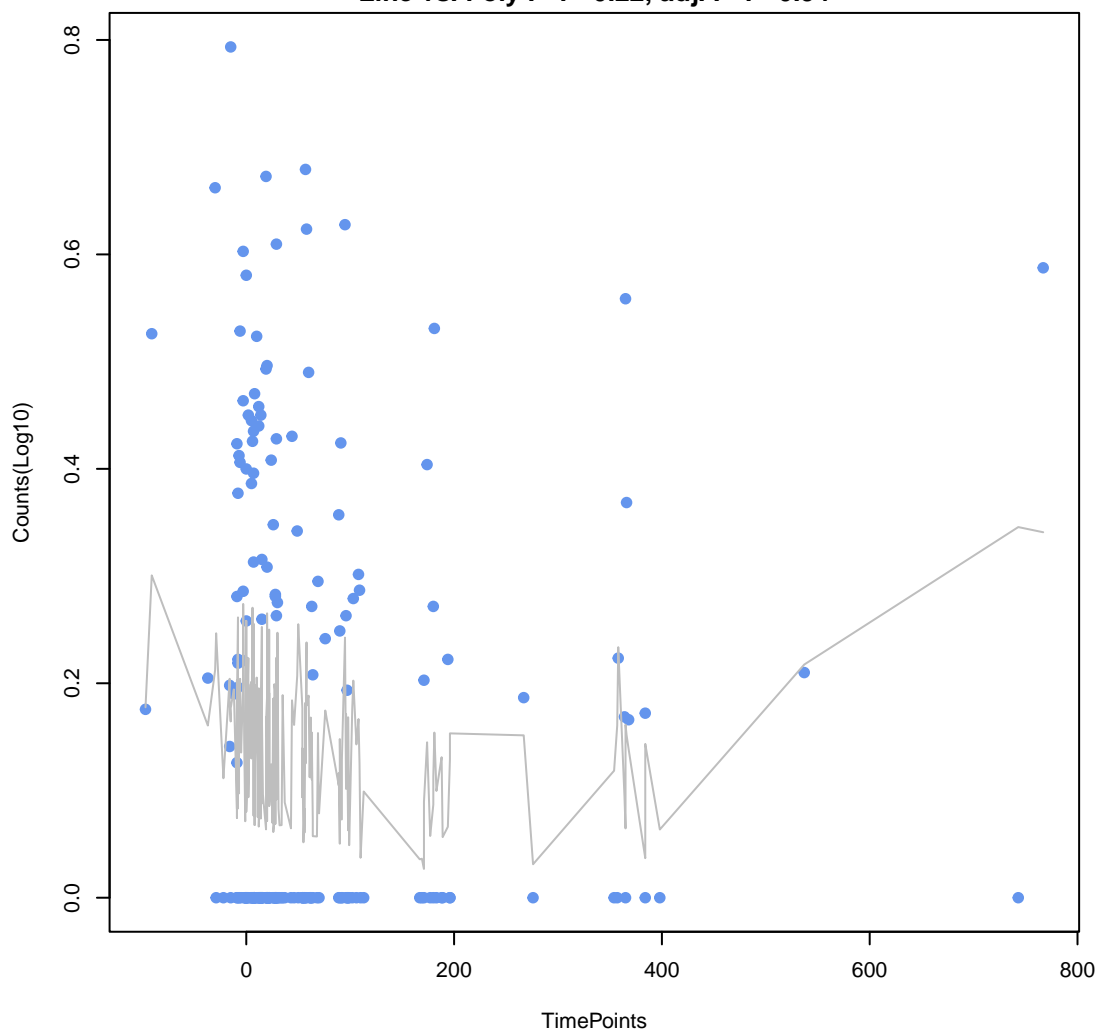
**Escherichia coli GlpT with mutation conferring resistance to fosfomycin**  
ANOVA P=0.185, adj. ANOVA-P=0.637  
Line vs. Poly F-P=0.0777, adj. F-P=0.677



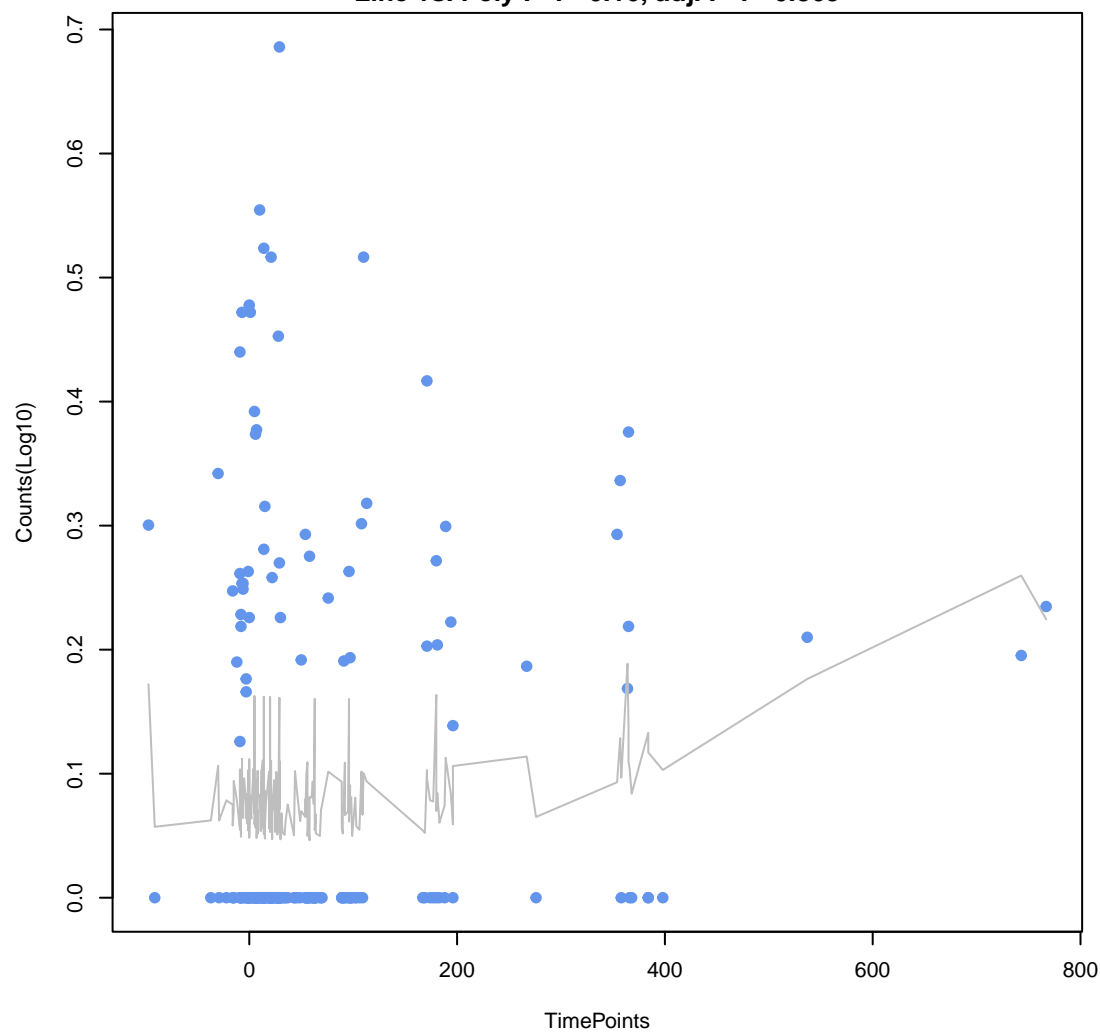
**baeS**  
ANOVA P=0.196, adj. ANOVA-P=0.654  
Line vs. Poly F-P=0.312, adj. F-P=1



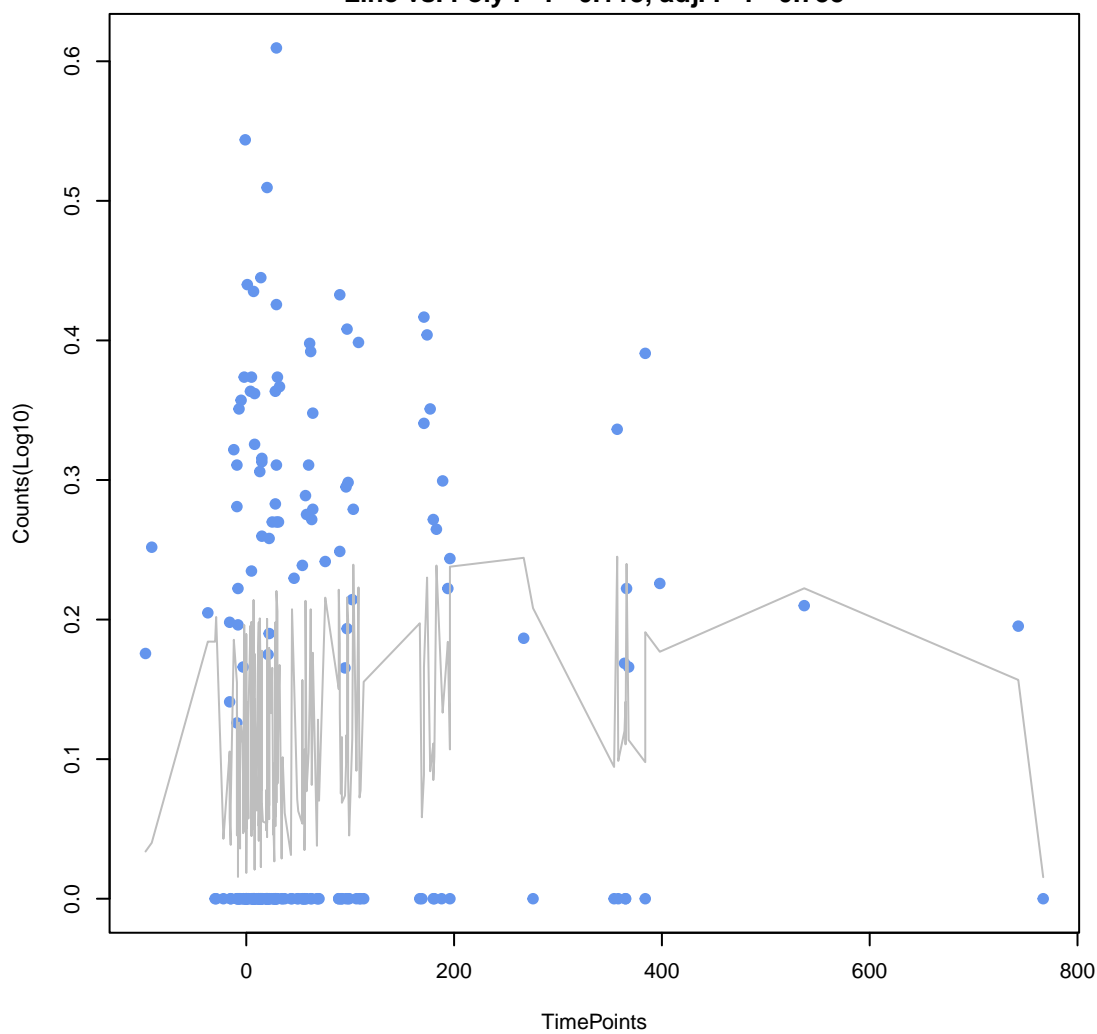
**PDC-402**  
ANOVA P=0.213, adj. ANOVA-P=0.684  
Line vs. Poly F-P=0.22, adj. F-P=0.94



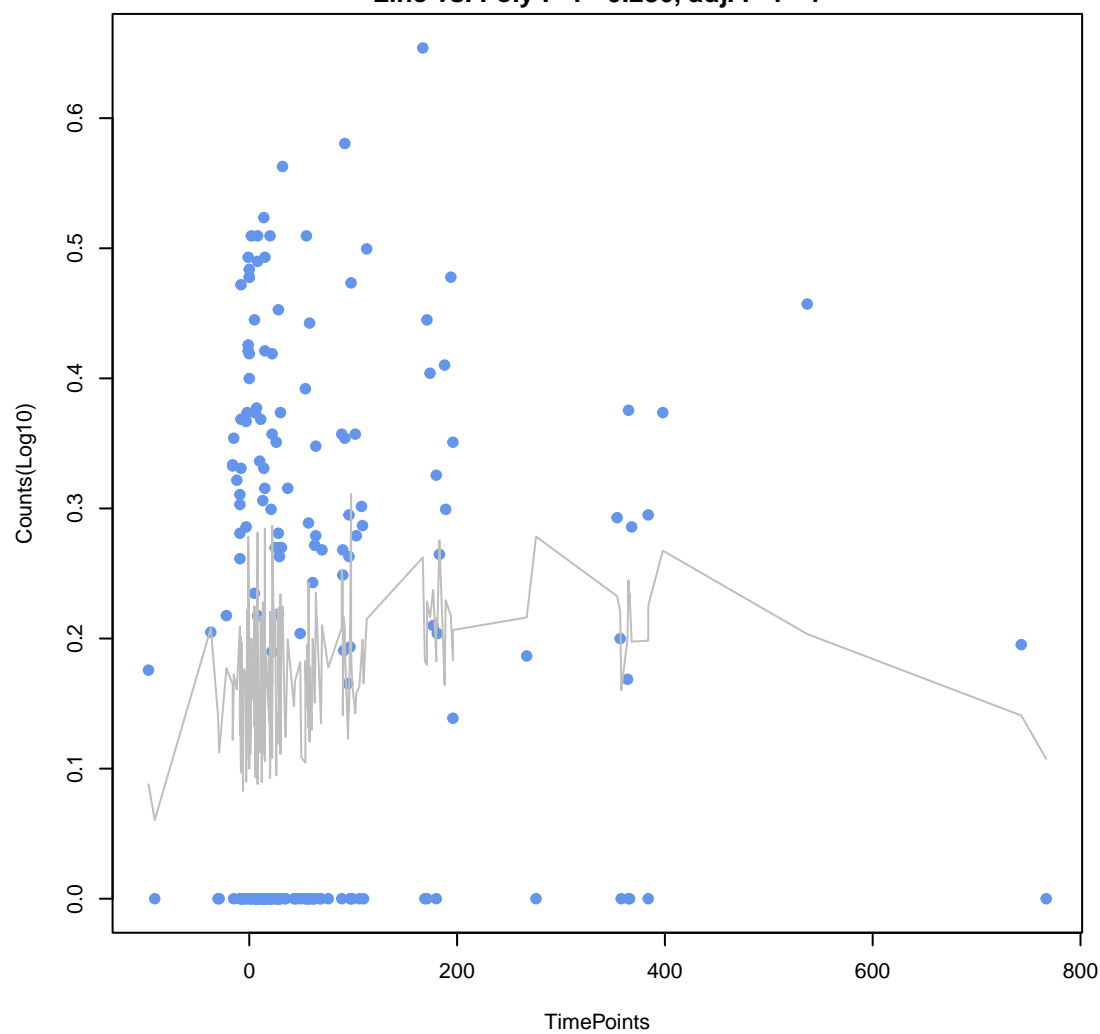
**Streptomyces rimosus otr(A)**  
ANOVA P=0.218, adj. ANOVA-P=0.684  
Line vs. Poly F-P=0.16, adj. F-P=0.865



**Escherichia coli soxS with mutation conferring antibiotic resistance**  
ANOVA P=0.226, adj. ANOVA-P=0.684  
Line vs. Poly F-P=0.113, adj. F-P=0.755

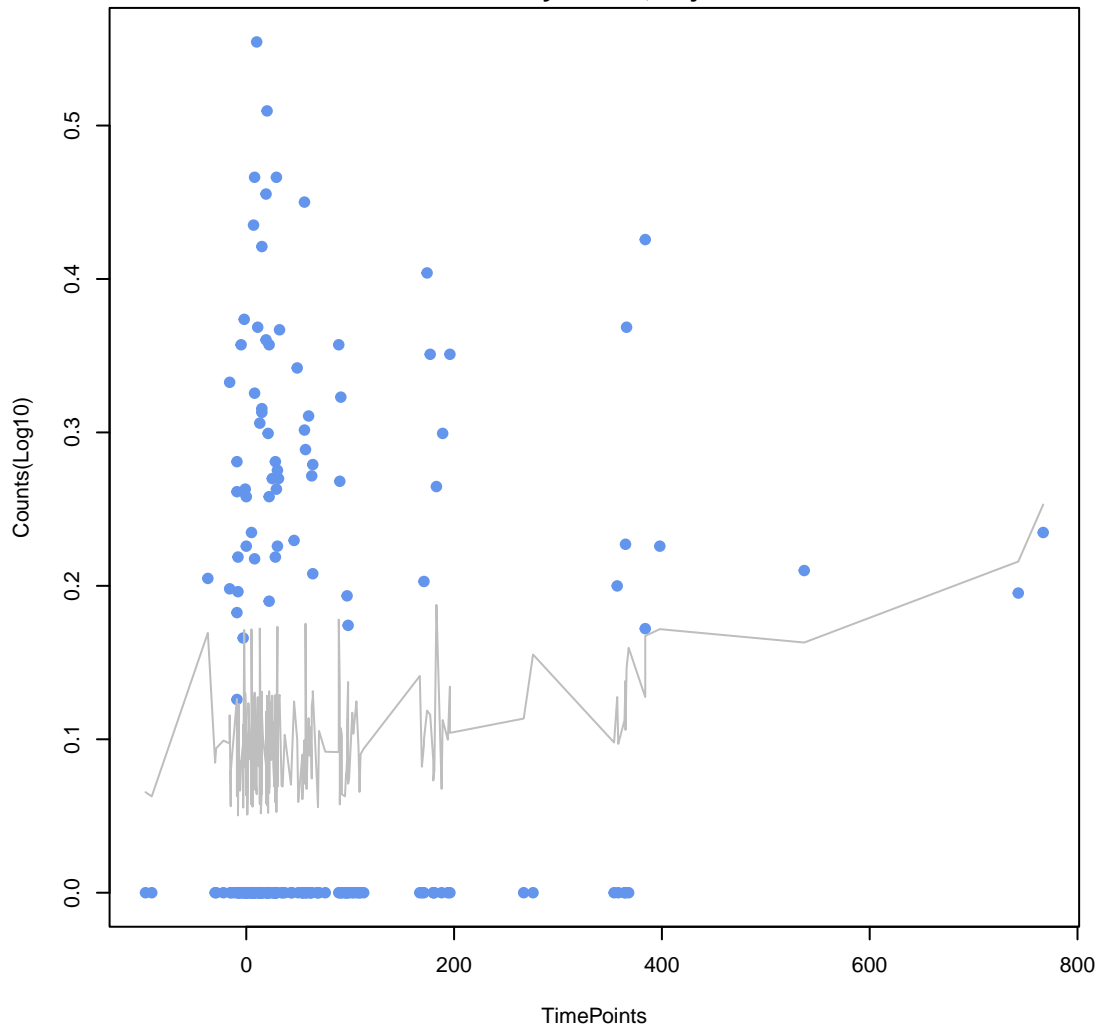


**mdtG**  
ANOVA P=0.23, adj. ANOVA-P=0.684  
Line vs. Poly F-P=0.286, adj. F-P=1



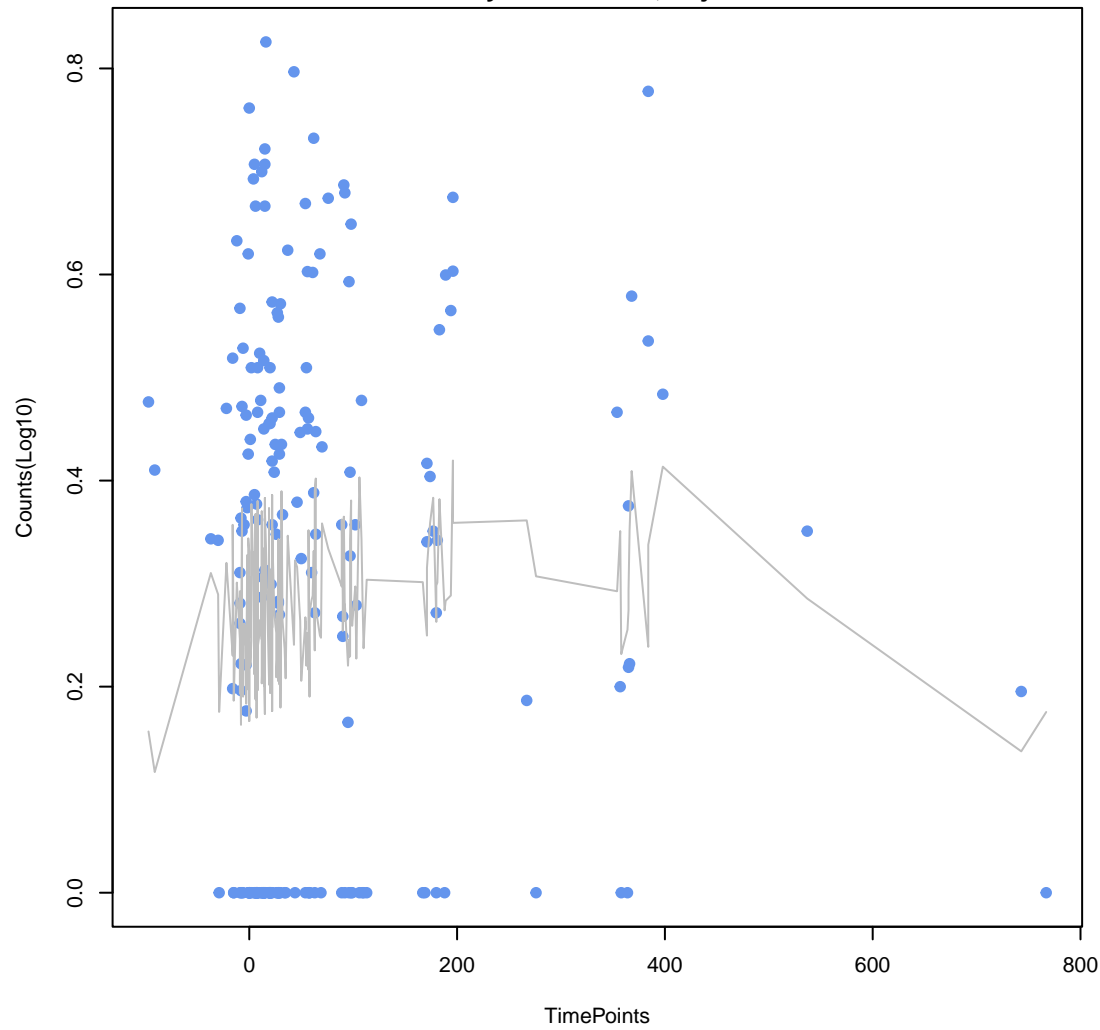
**gadX**

ANOVA P=0.254, adj. ANOVA-P=0.735  
Line vs. Poly F-P=1, adj. F-P=1



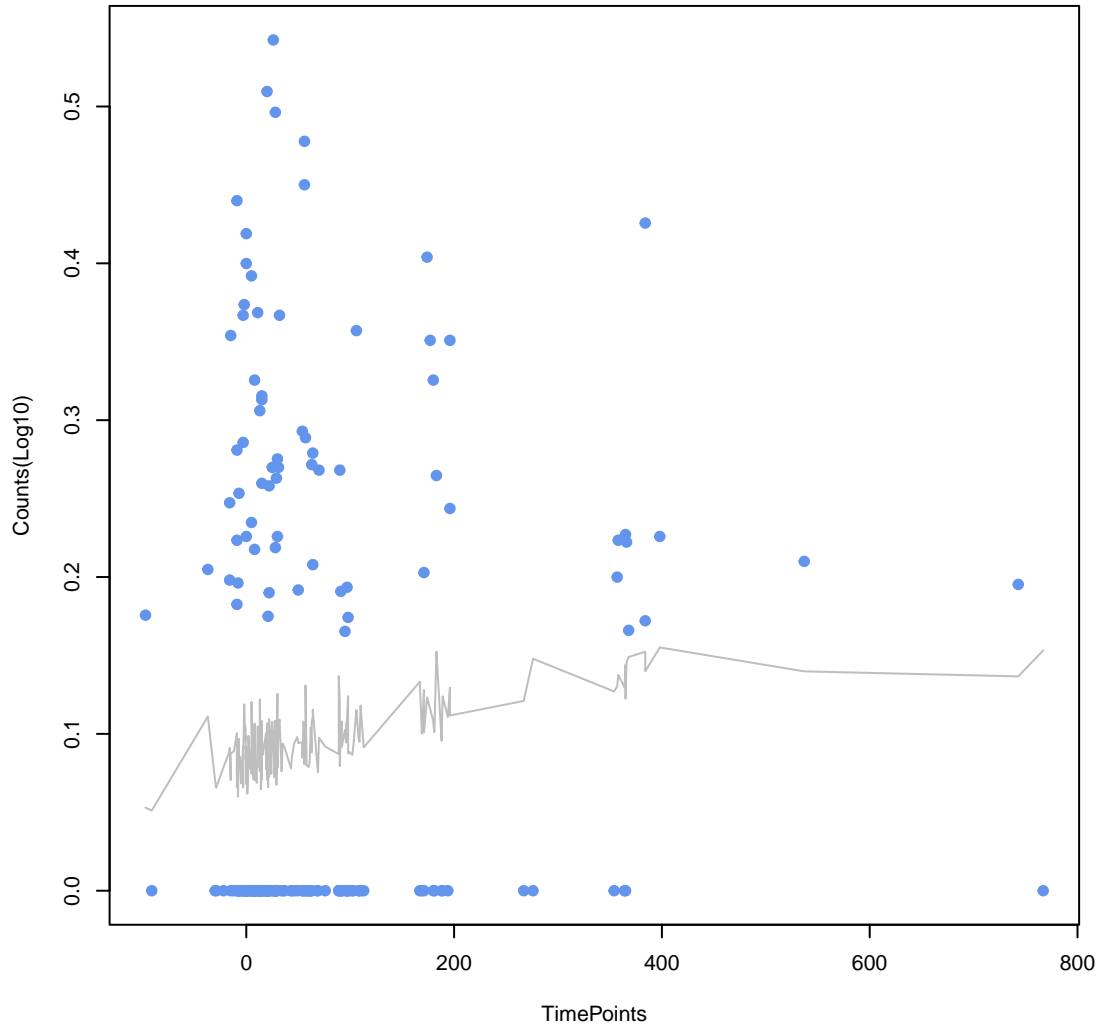
**acrB**

ANOVA P=0.272, adj. ANOVA-P=0.758  
Line vs. Poly F-P=0.0543, adj. F-P=0.648



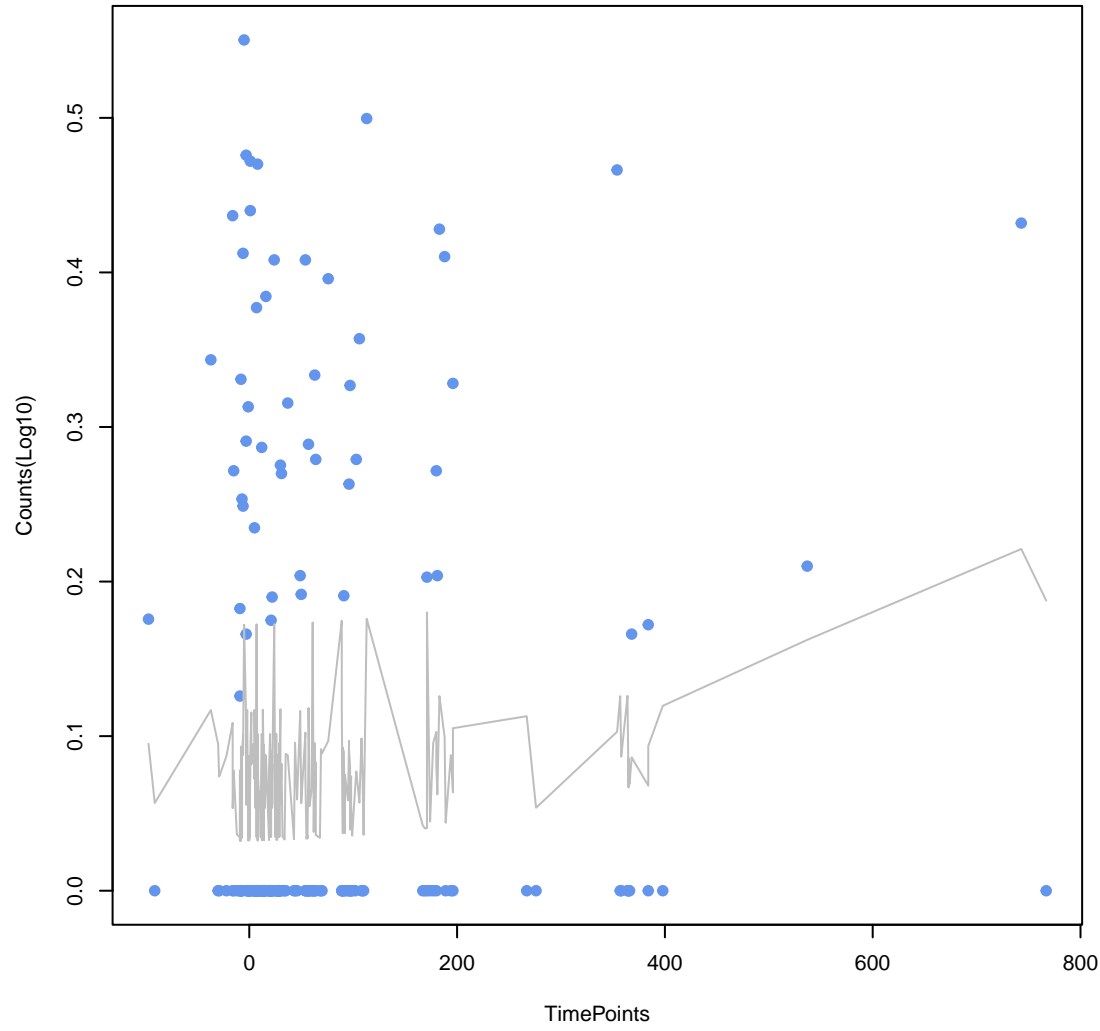
**AcrS**

ANOVA P=0.276, adj. ANOVA-P=0.758  
Line vs. Poly F-P=0.487, adj. F-P=1



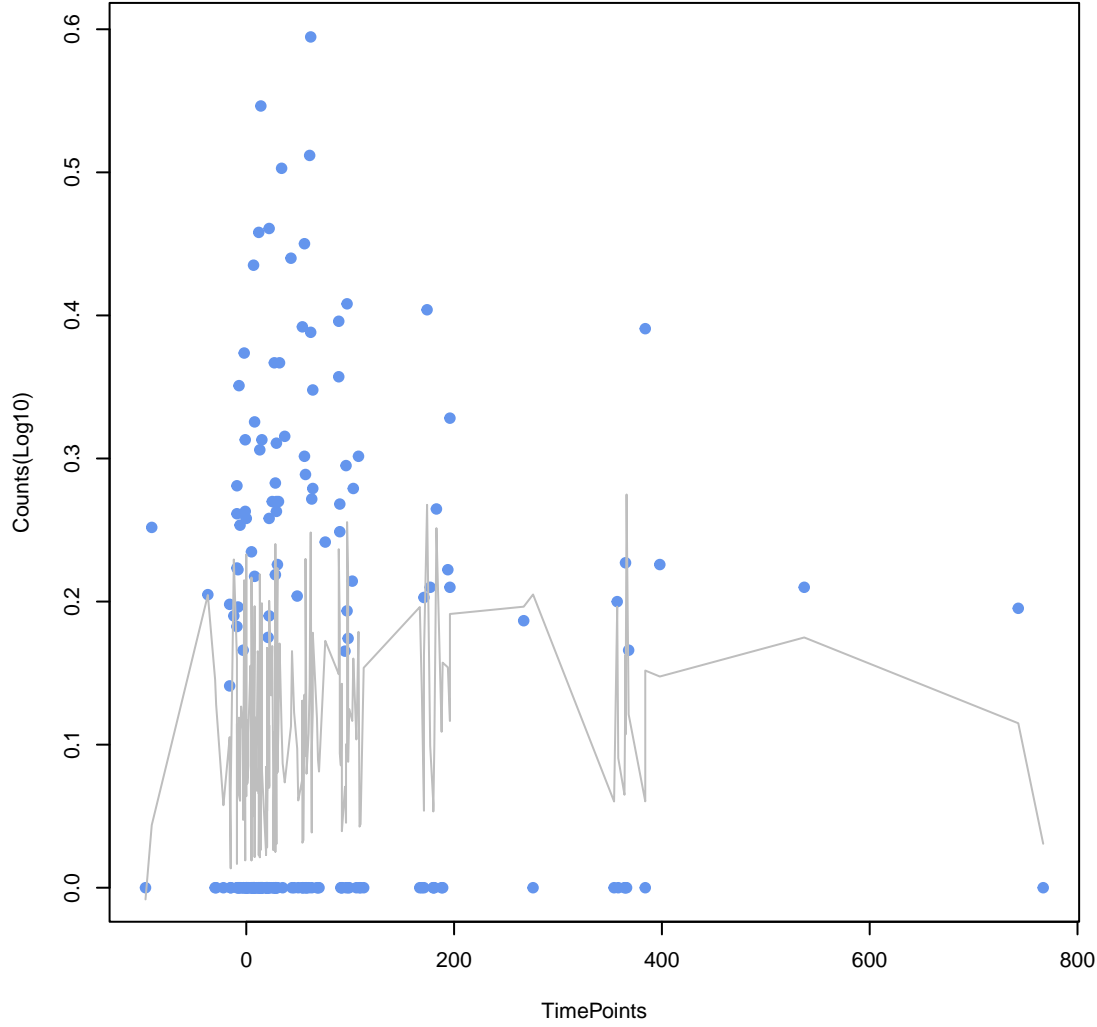
**SHV-43**

ANOVA P=0.305, adj. ANOVA-P=0.773  
Line vs. Poly F-P=0.766, adj. F-P=1



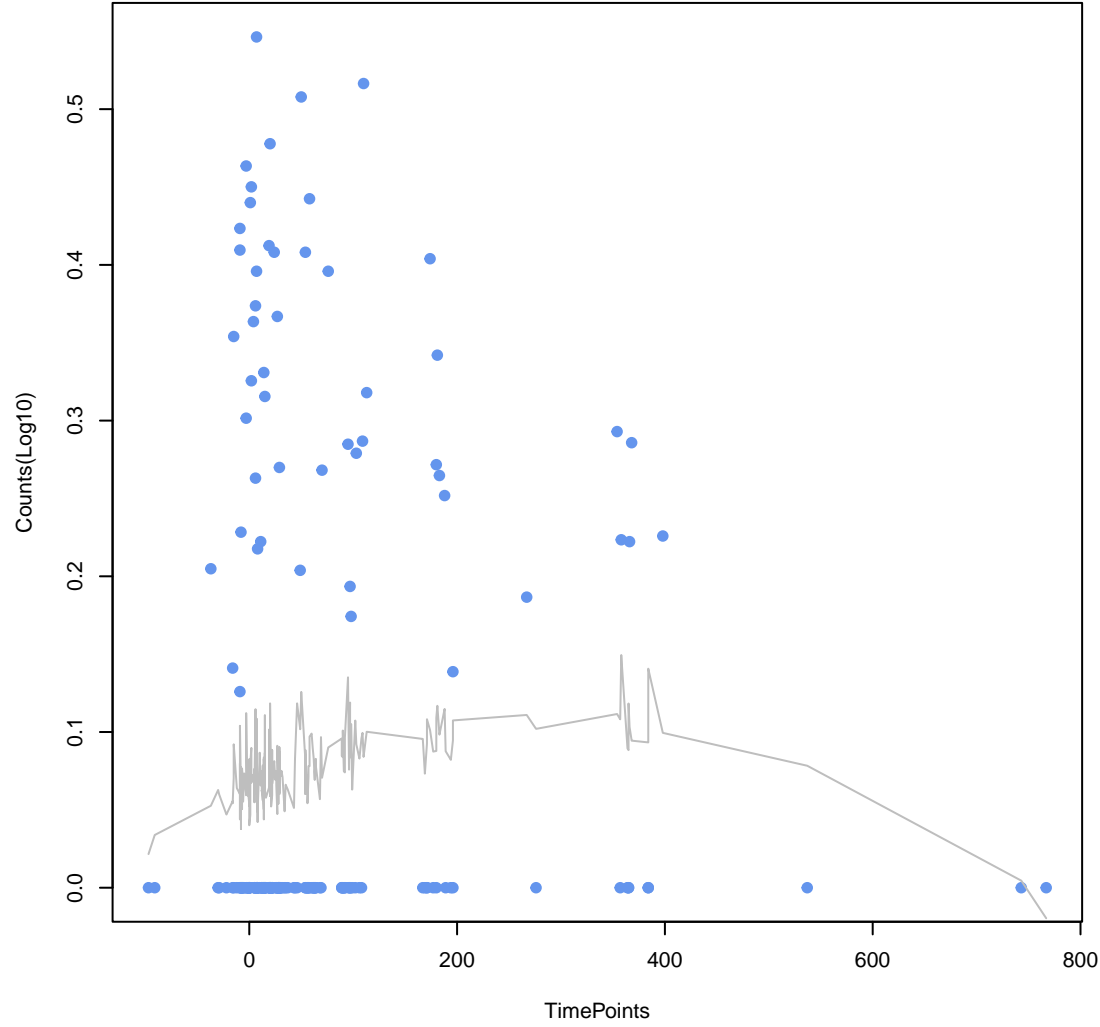
**H-NS**

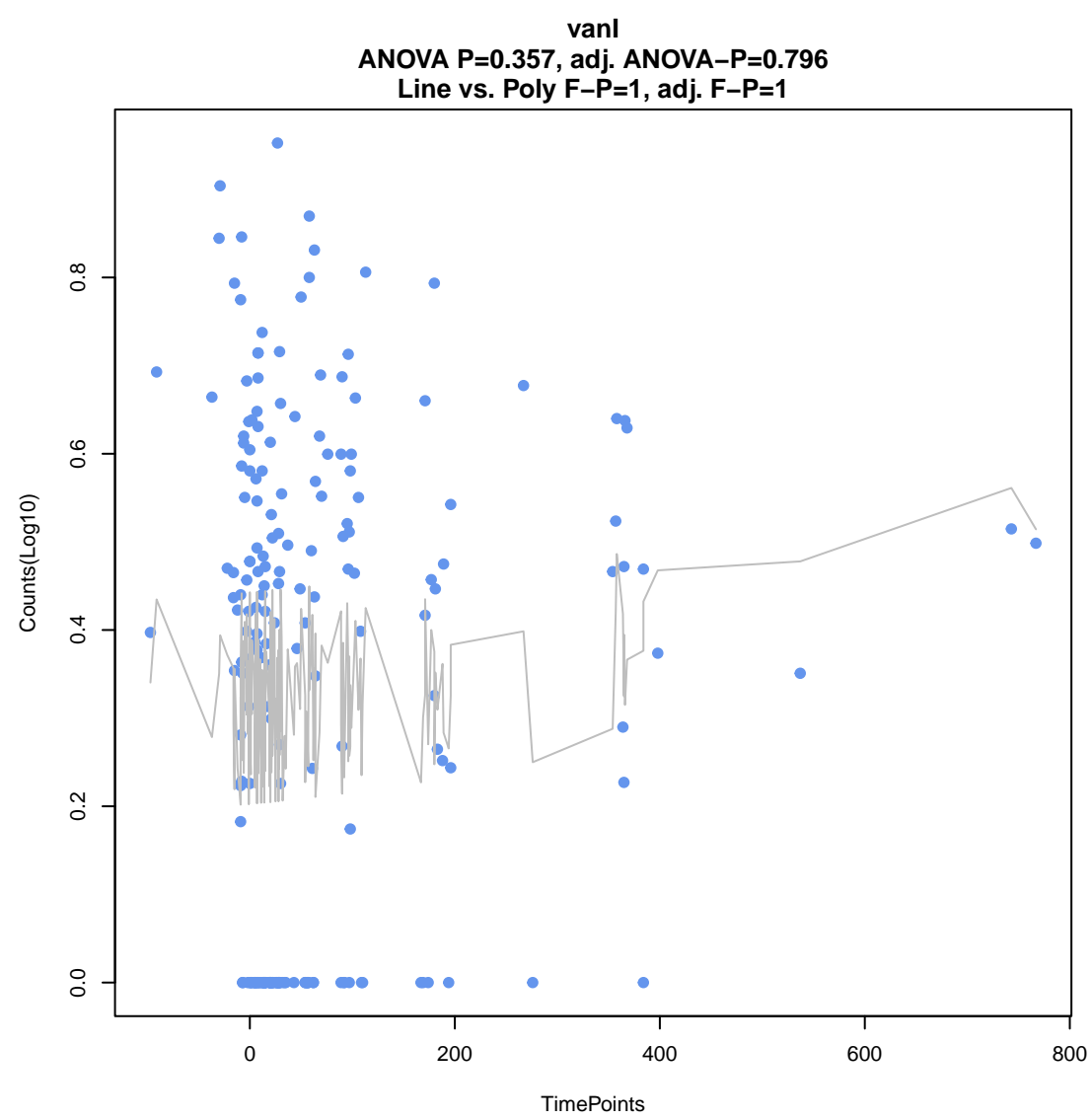
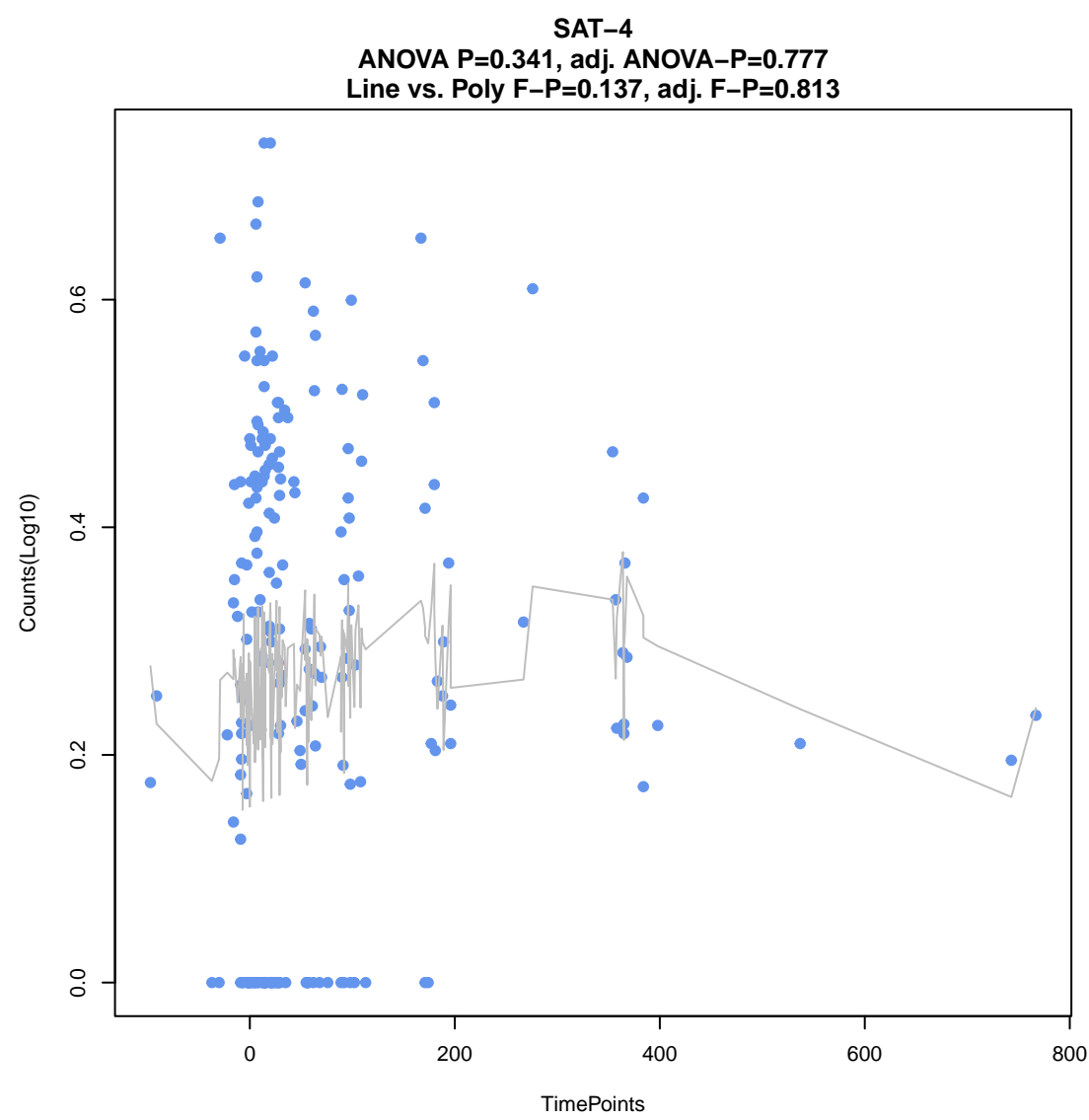
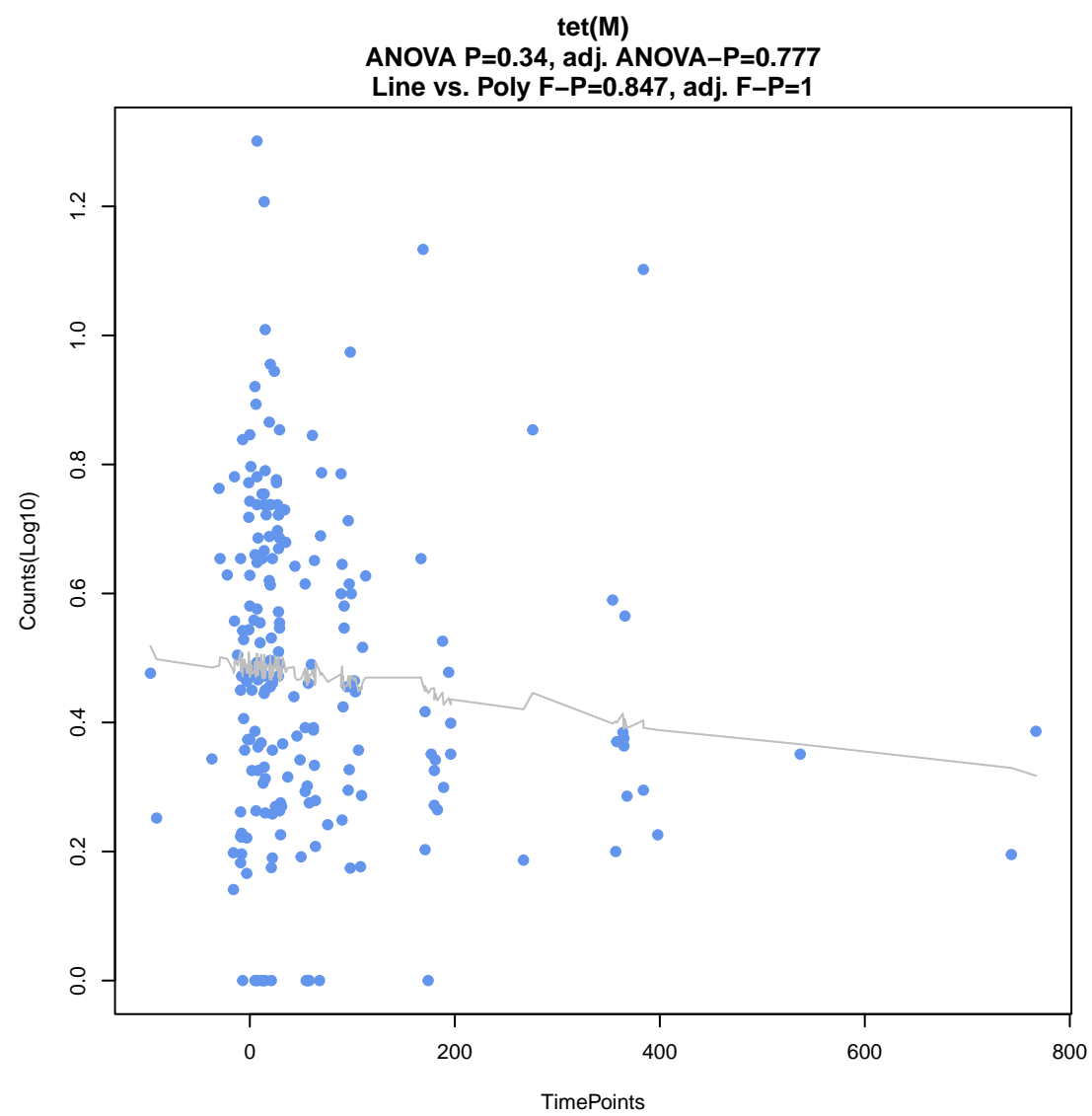
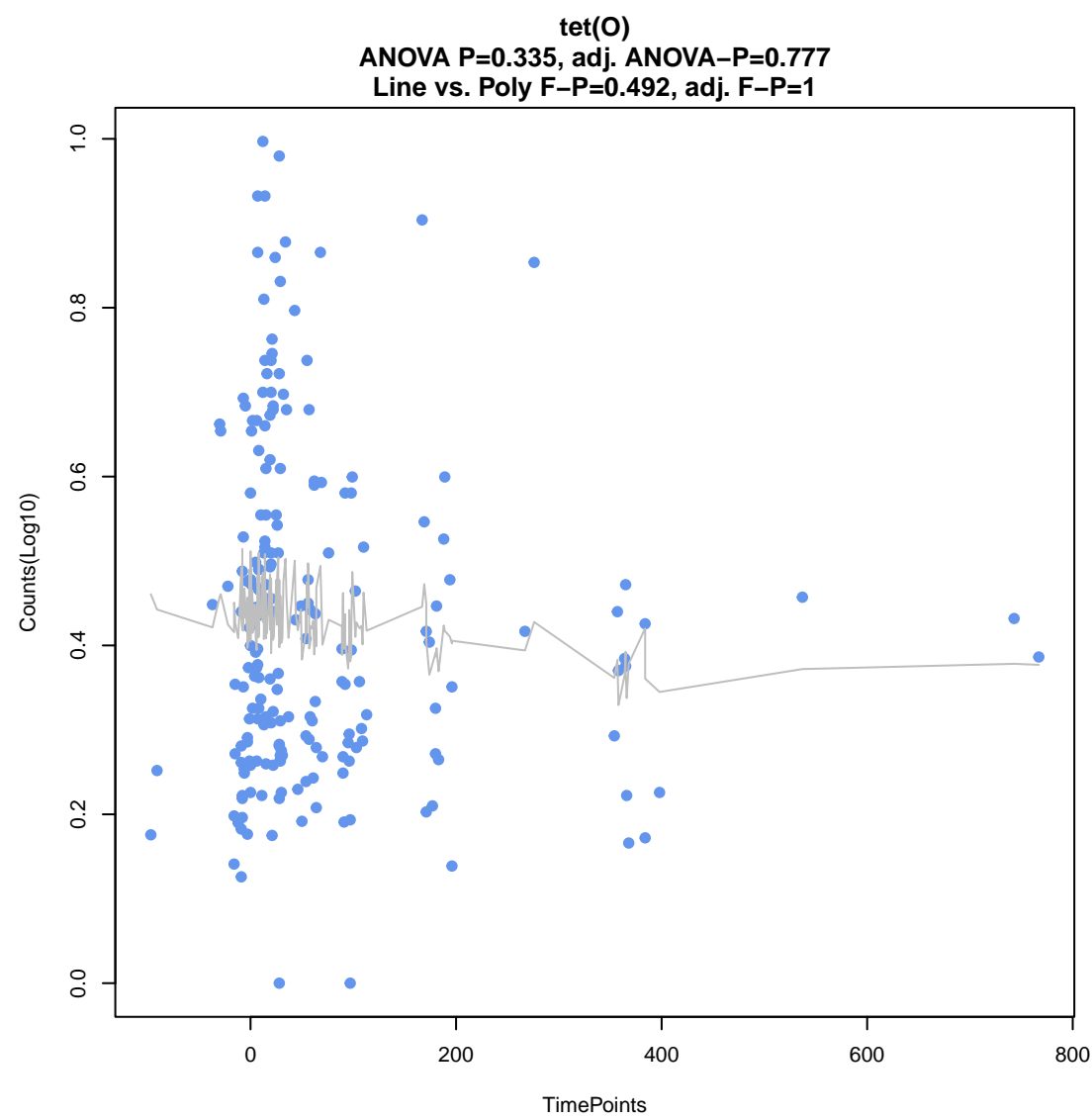
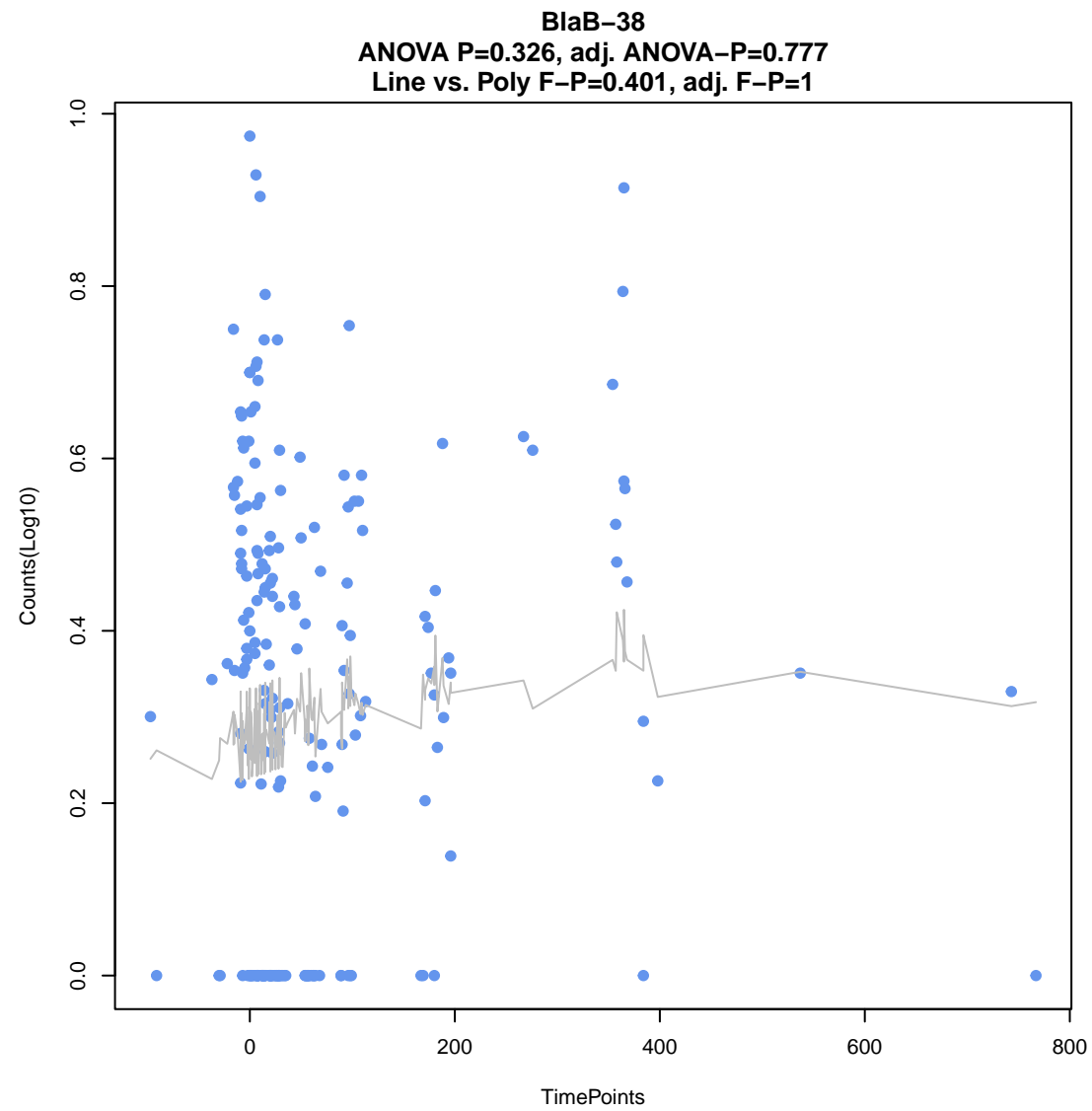
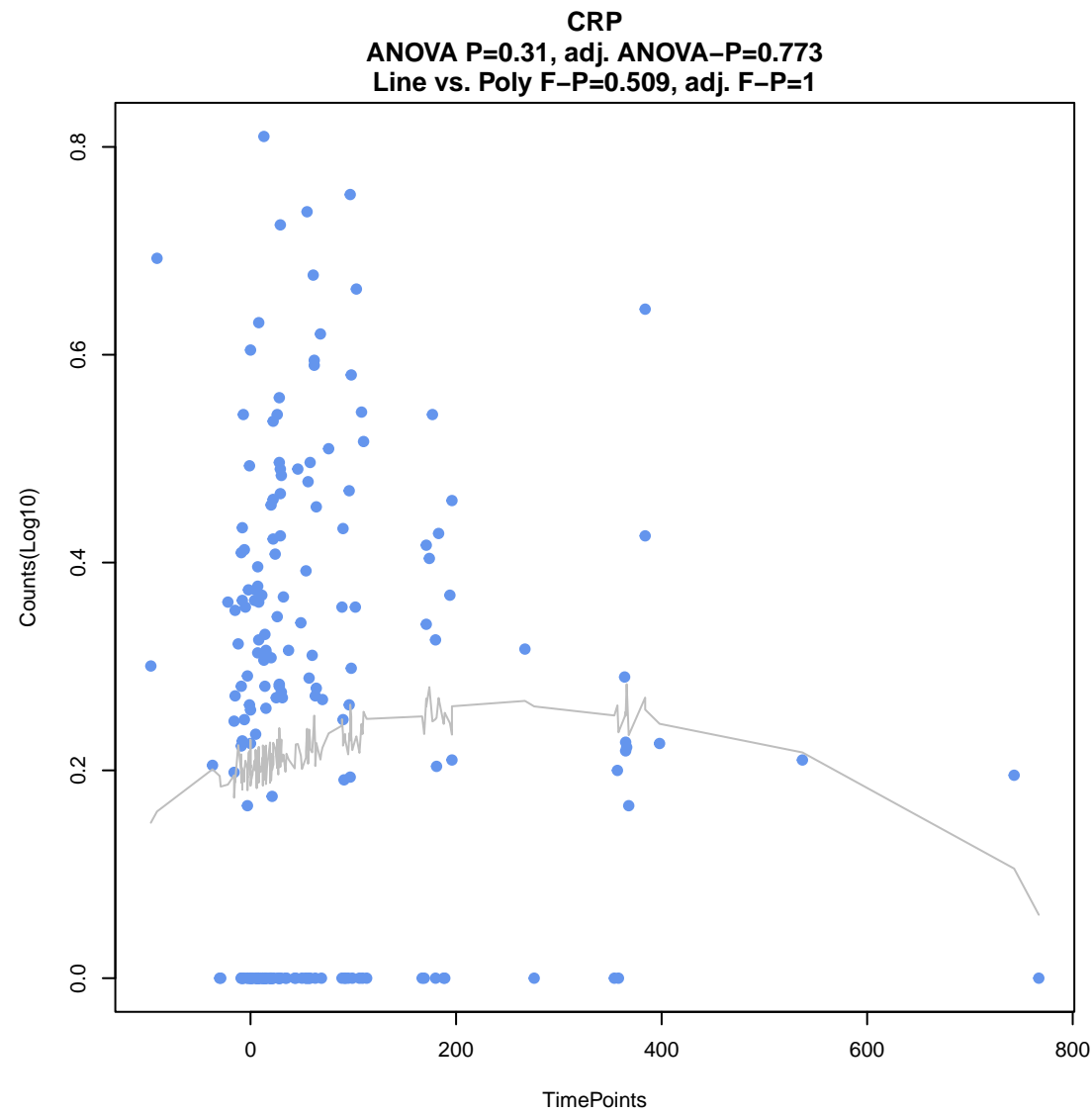
ANOVA P=0.309, adj. ANOVA-P=0.773  
Line vs. Poly F-P=0.173, adj. F-P=0.879



**mtrD**

ANOVA P=0.31, adj. ANOVA-P=0.773  
Line vs. Poly F-P=0.162, adj. F-P=0.865

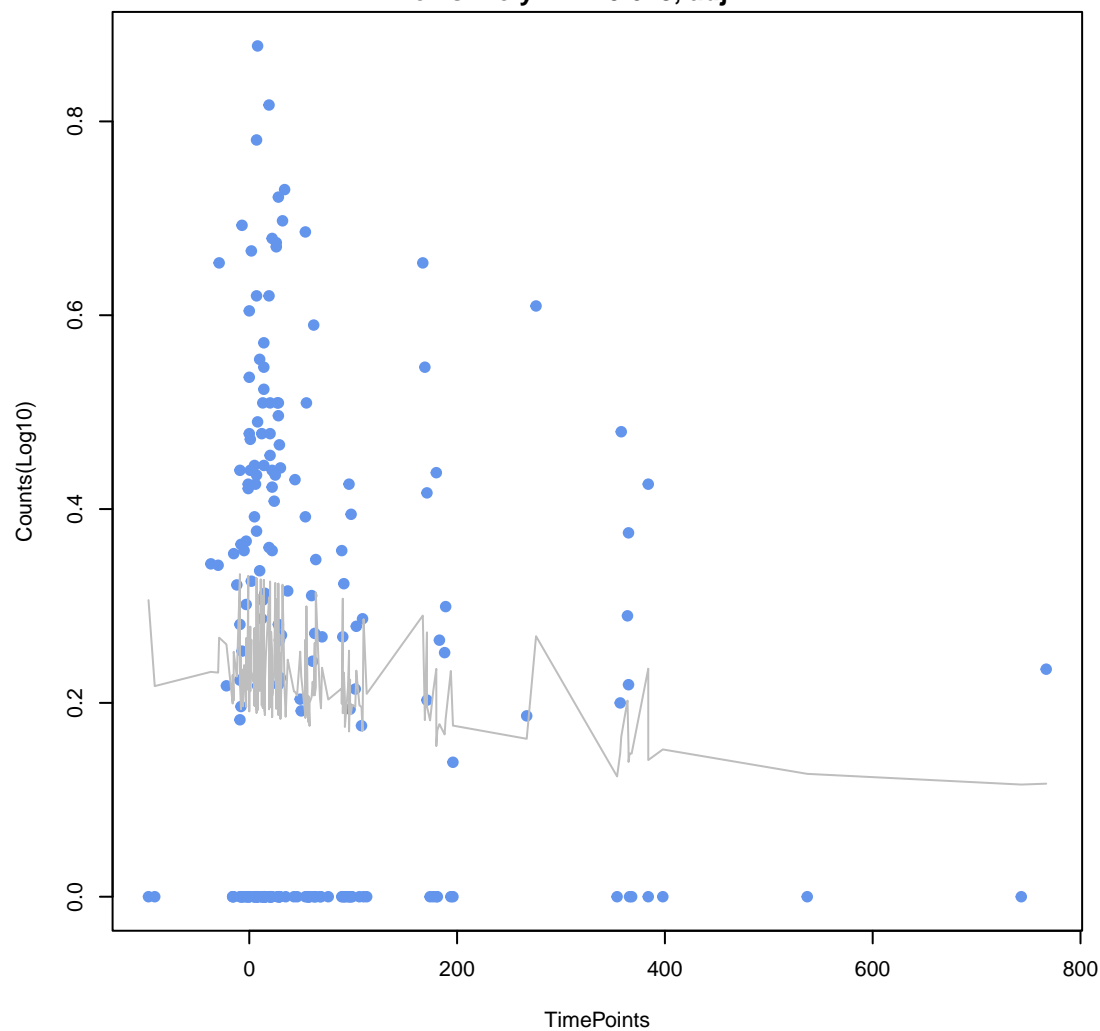






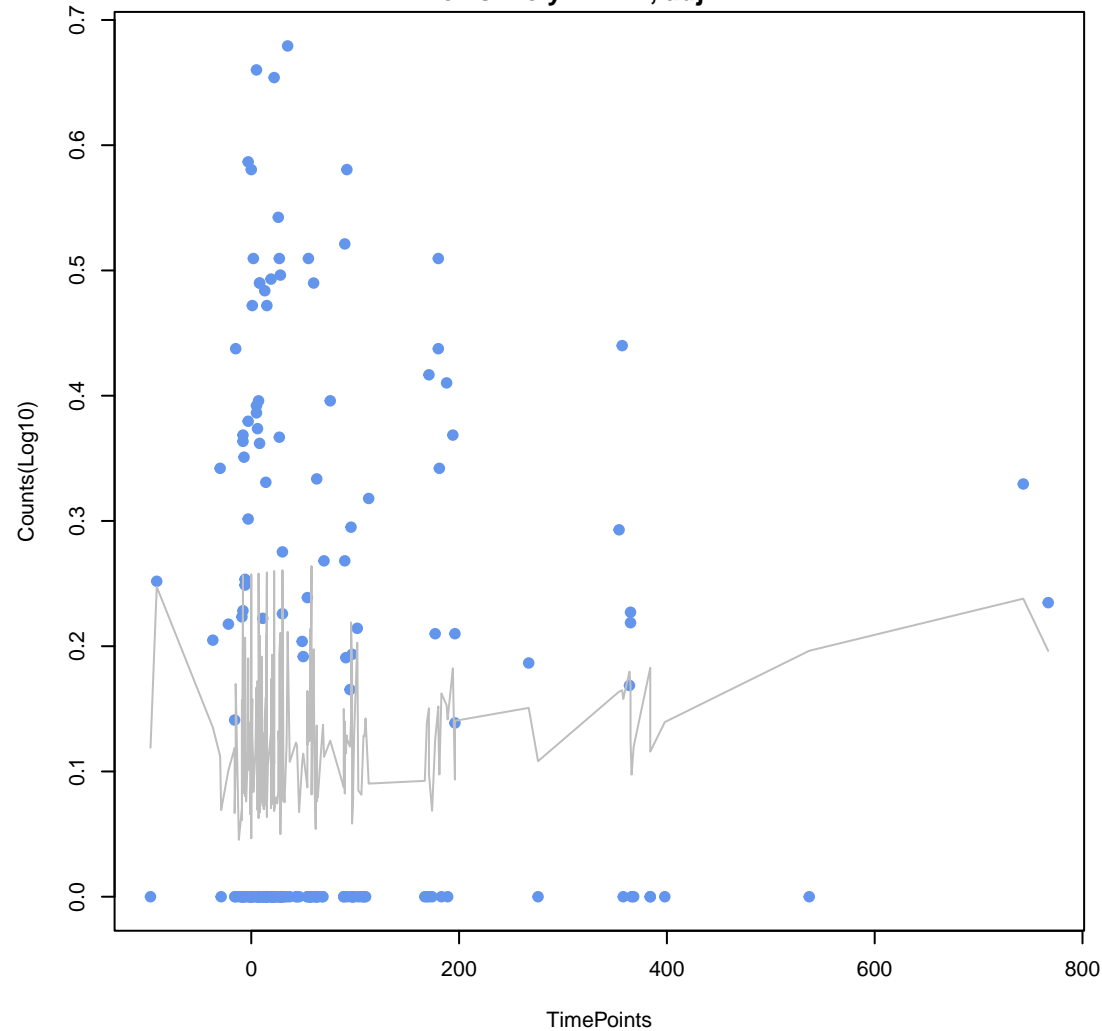
vanA

ANOVA P=0.372, adj. ANOVA-P=0.803  
Line vs. Poly F-P=0.618, adj. F-P=1



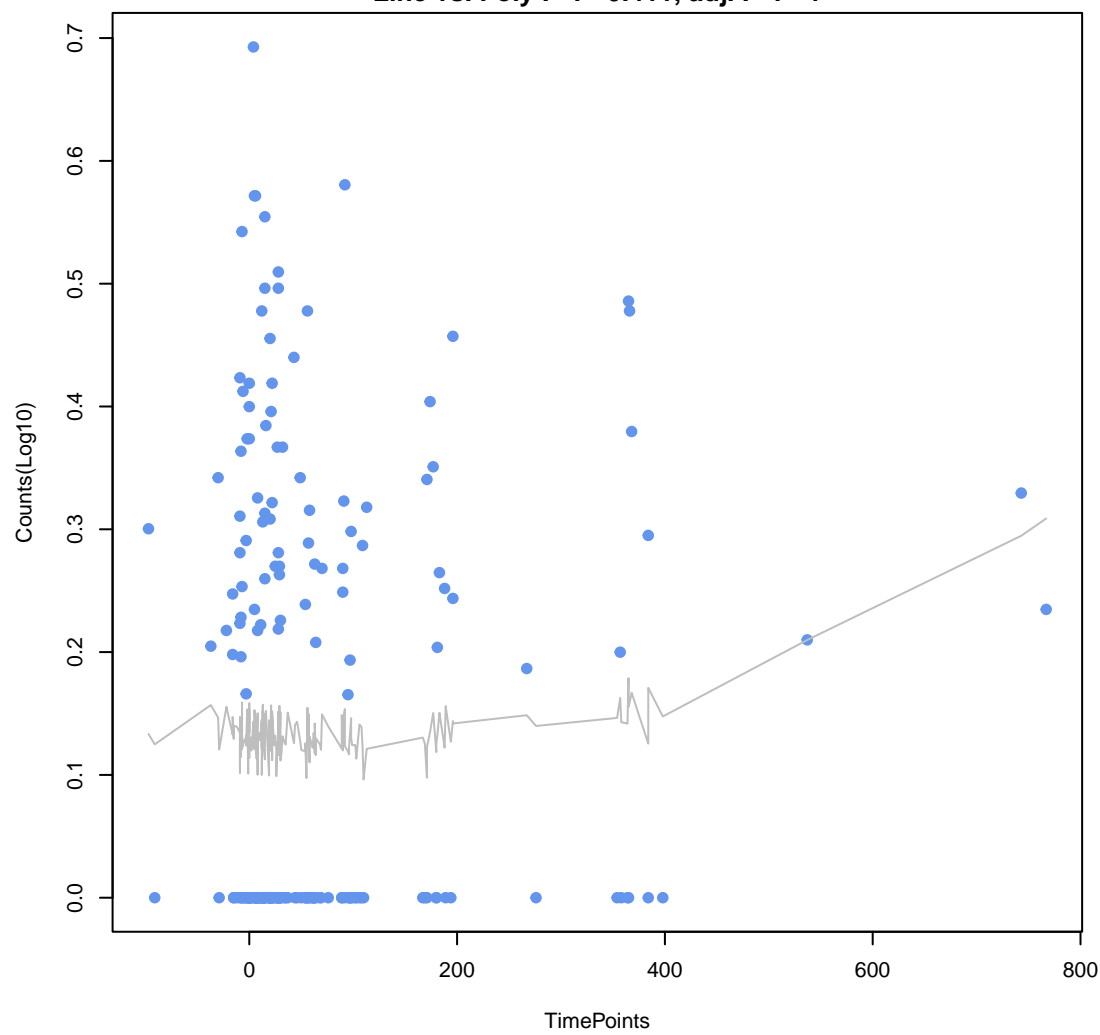
tet(W/32/O)

ANOVA P=0.383, adj. ANOVA-P=0.803  
Line vs. Poly F-P=1, adj. F-P=1



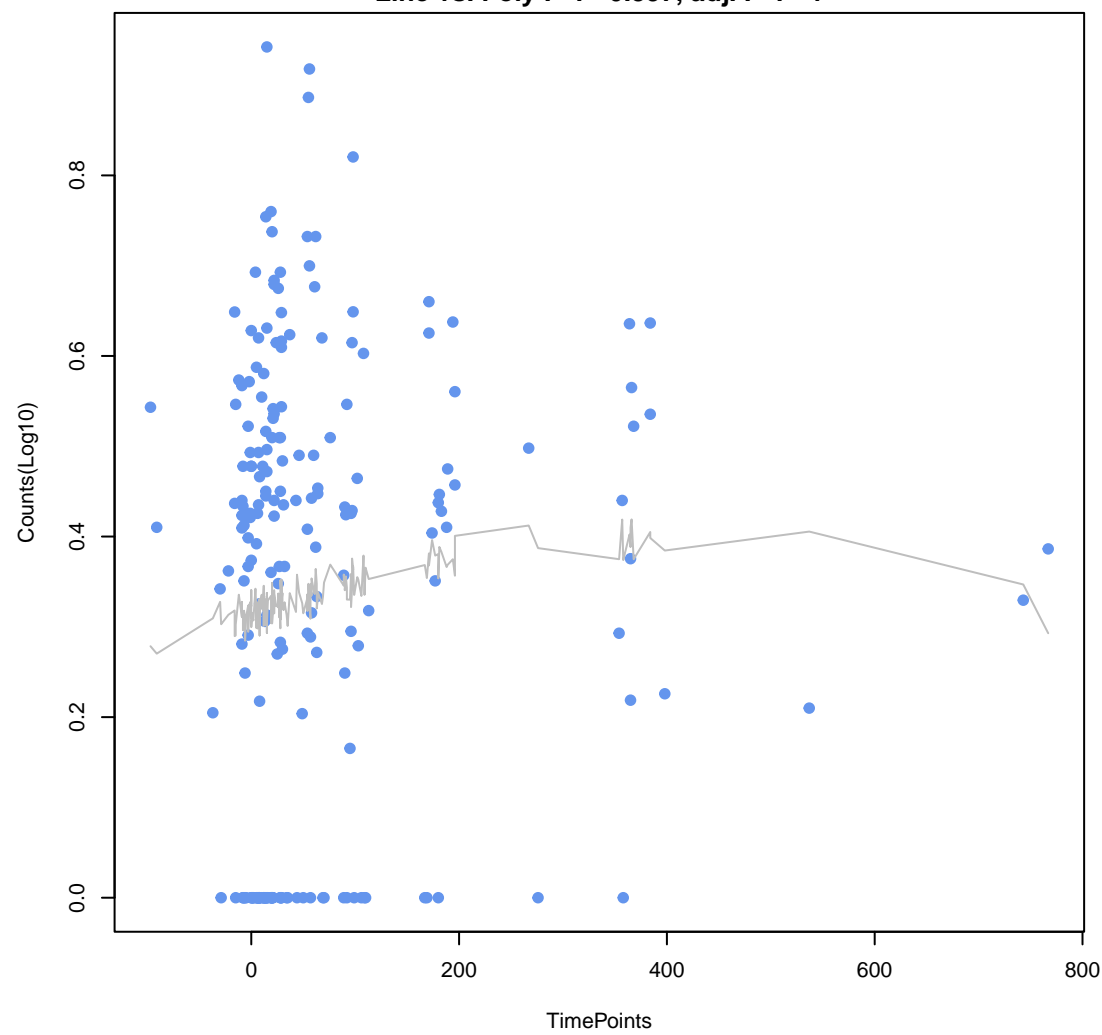
eptA

ANOVA P=0.388, adj. ANOVA-P=0.803  
Line vs. Poly F-P=0.411, adj. F-P=1



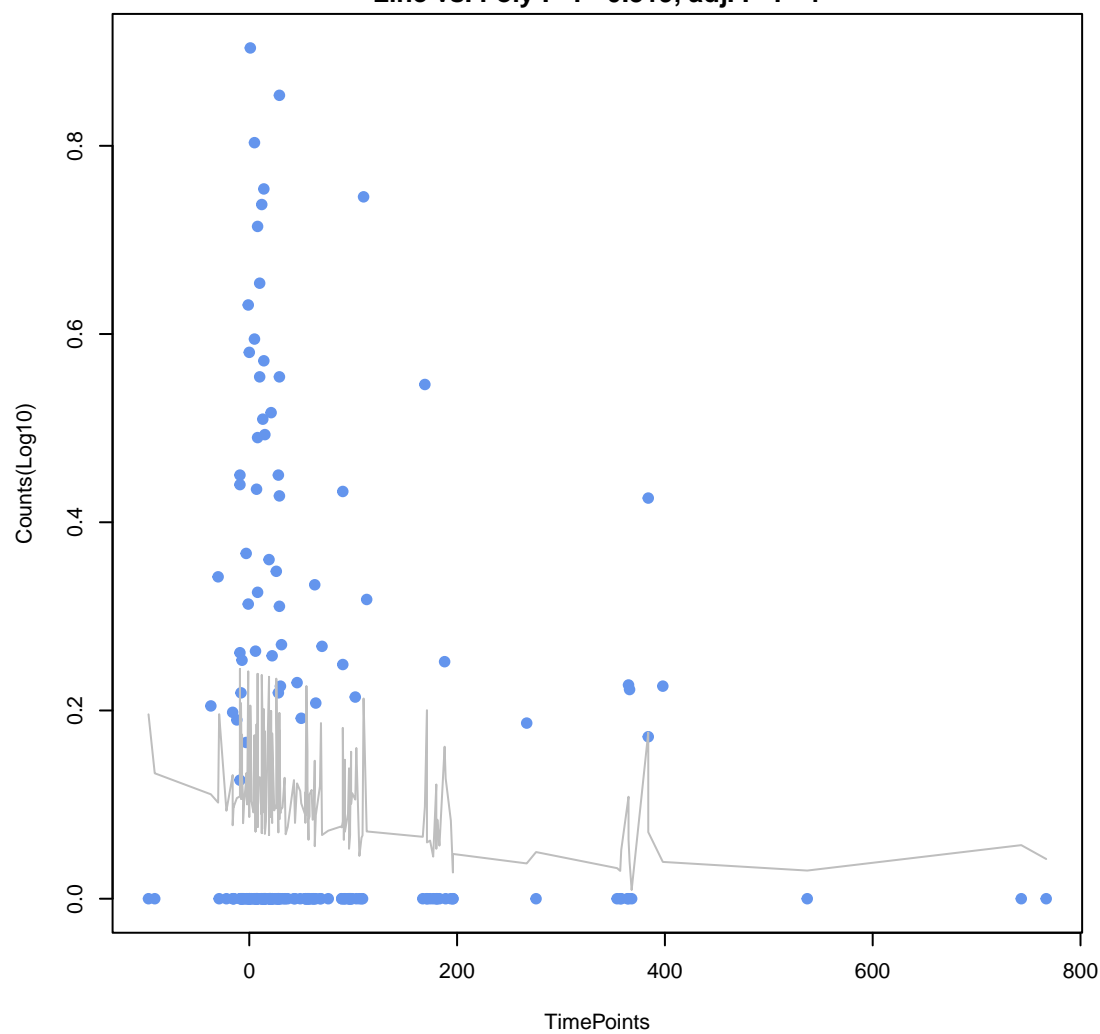
acrD

ANOVA P=0.399, adj. ANOVA-P=0.803  
Line vs. Poly F-P=0.397, adj. F-P=1



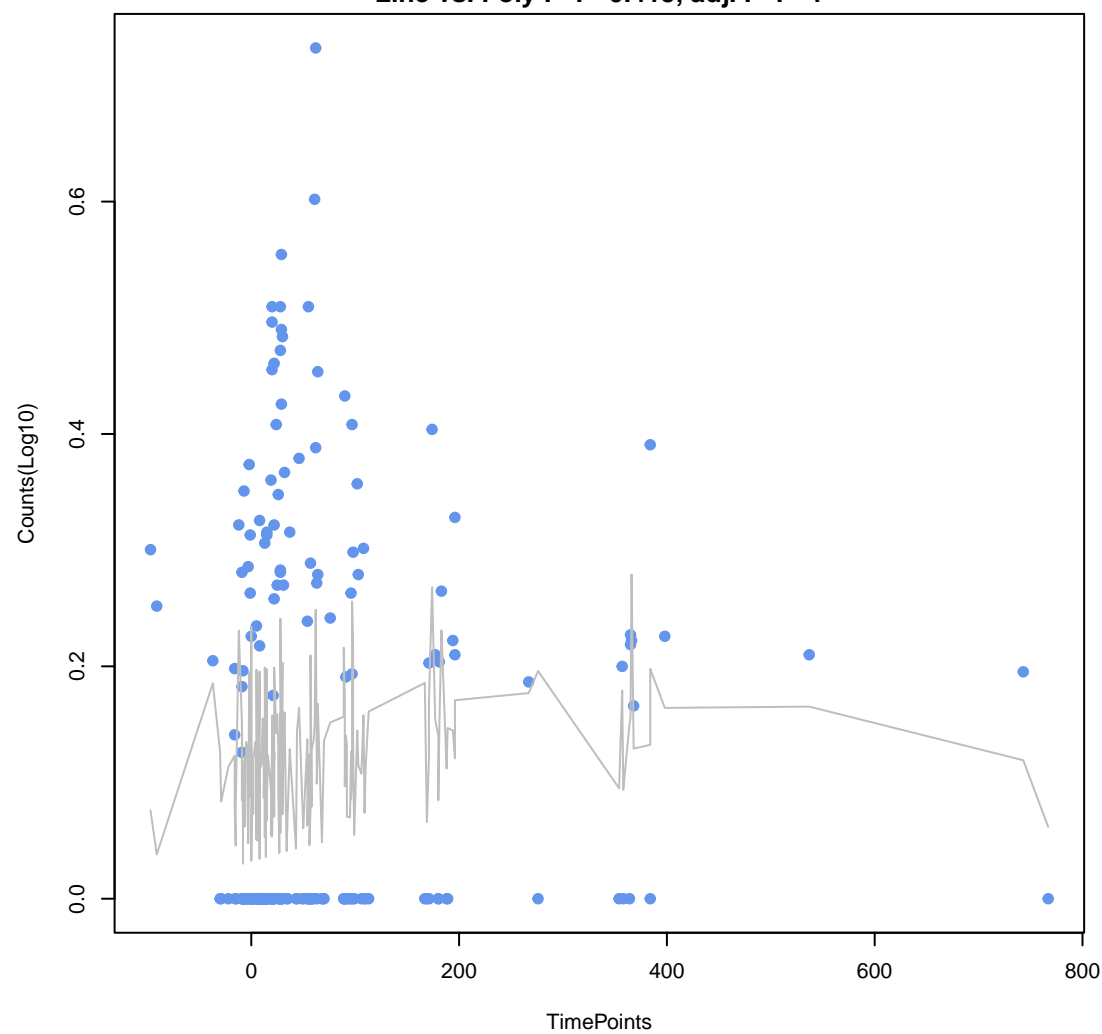
pmrA

ANOVA P=0.413, adj. ANOVA-P=0.803  
Line vs. Poly F-P=0.319, adj. F-P=1



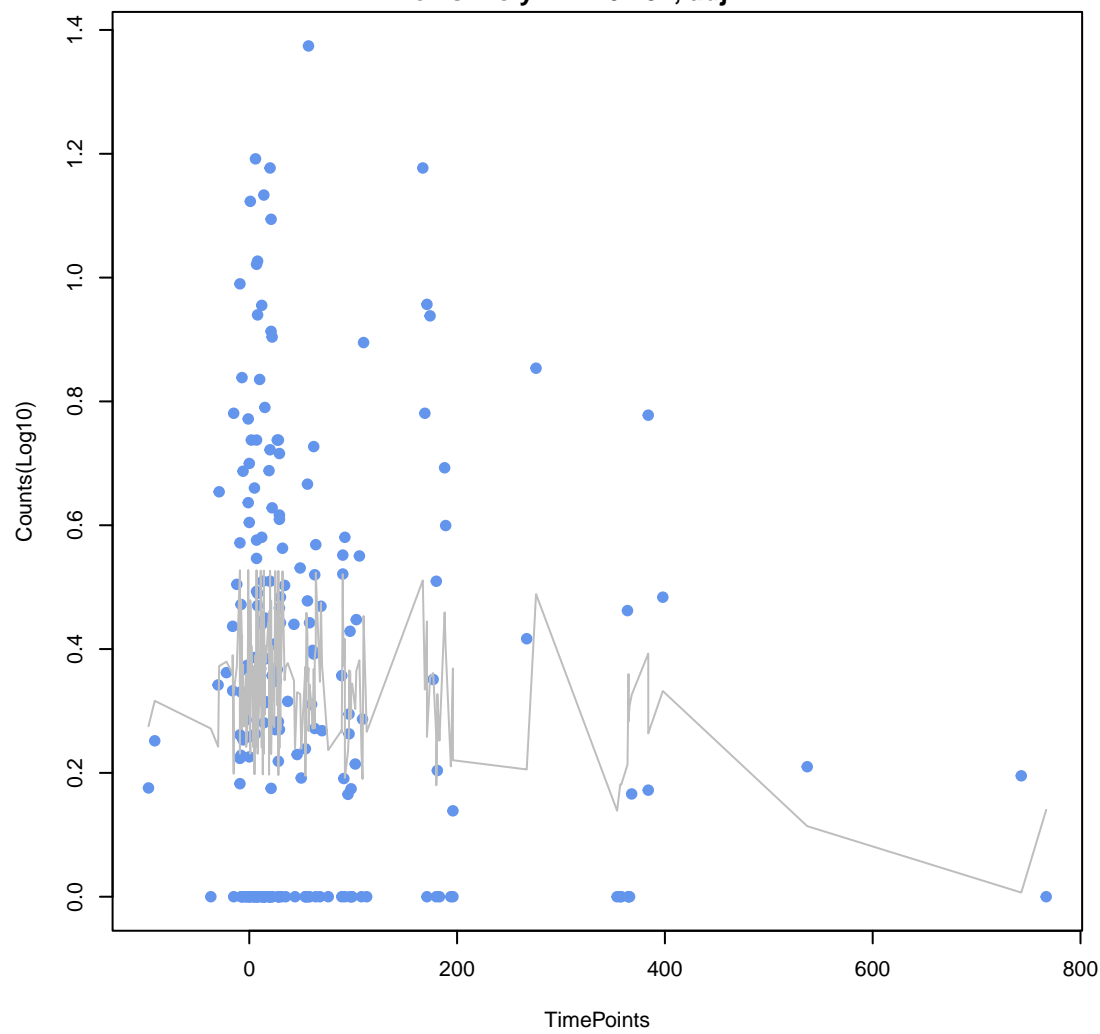
marA

ANOVA P=0.432, adj. ANOVA-P=0.803  
Line vs. Poly F-P=0.415, adj. F-P=1



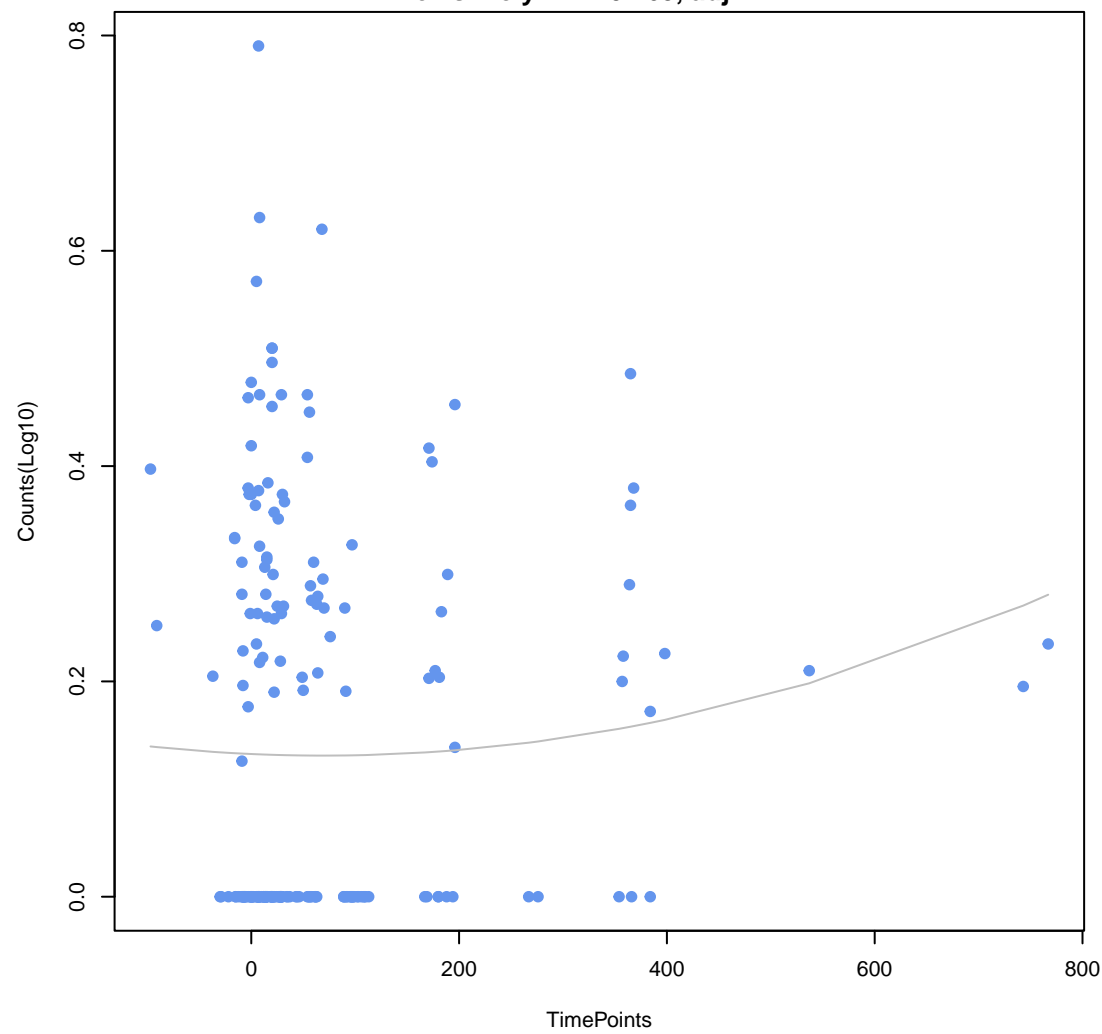
**lmrD**

ANOVA P=0.439, adj. ANOVA-P=0.803  
Line vs. Poly F-P=0.737, adj. F-P=1



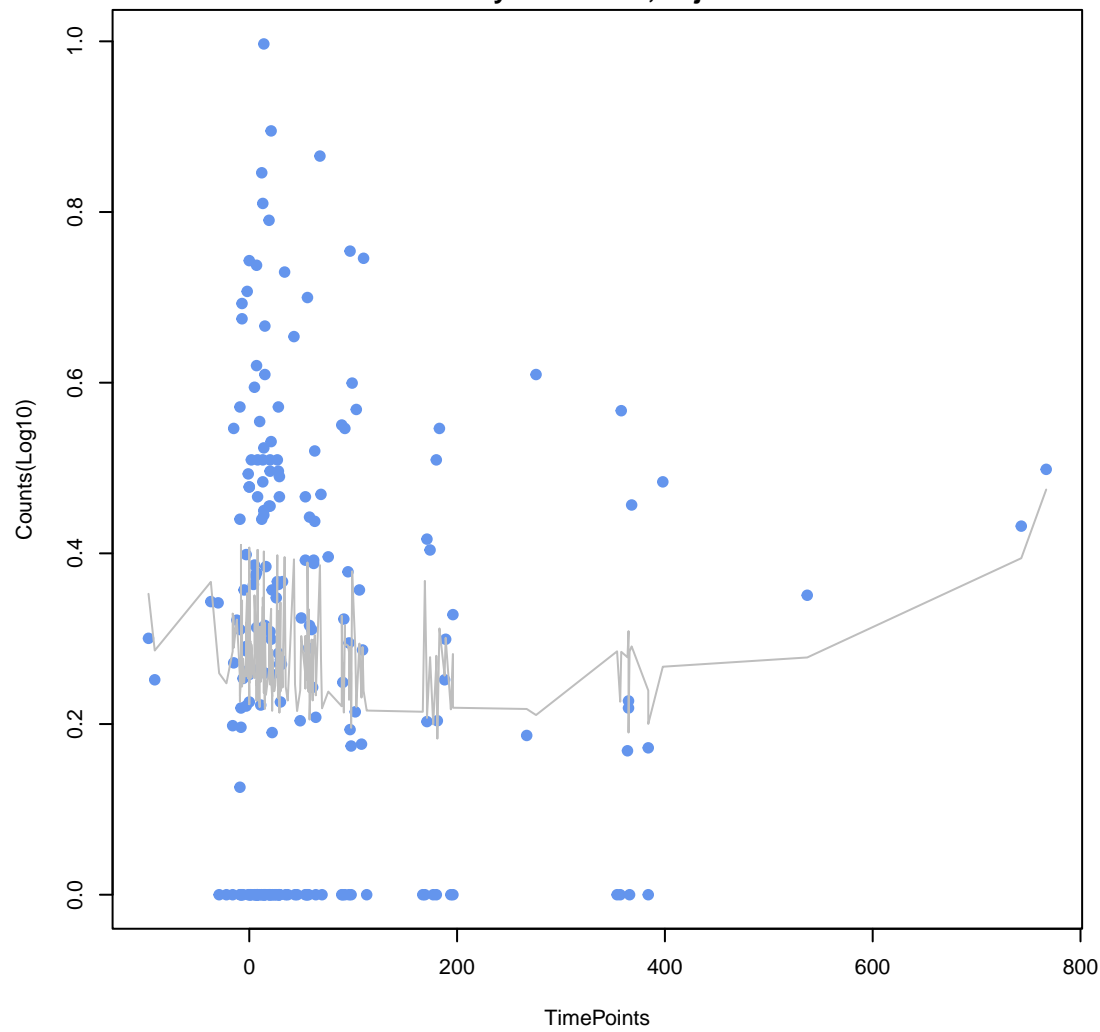
**mdtN**

ANOVA P=0.442, adj. ANOVA-P=0.803  
Line vs. Poly F-P=0.465, adj. F-P=1



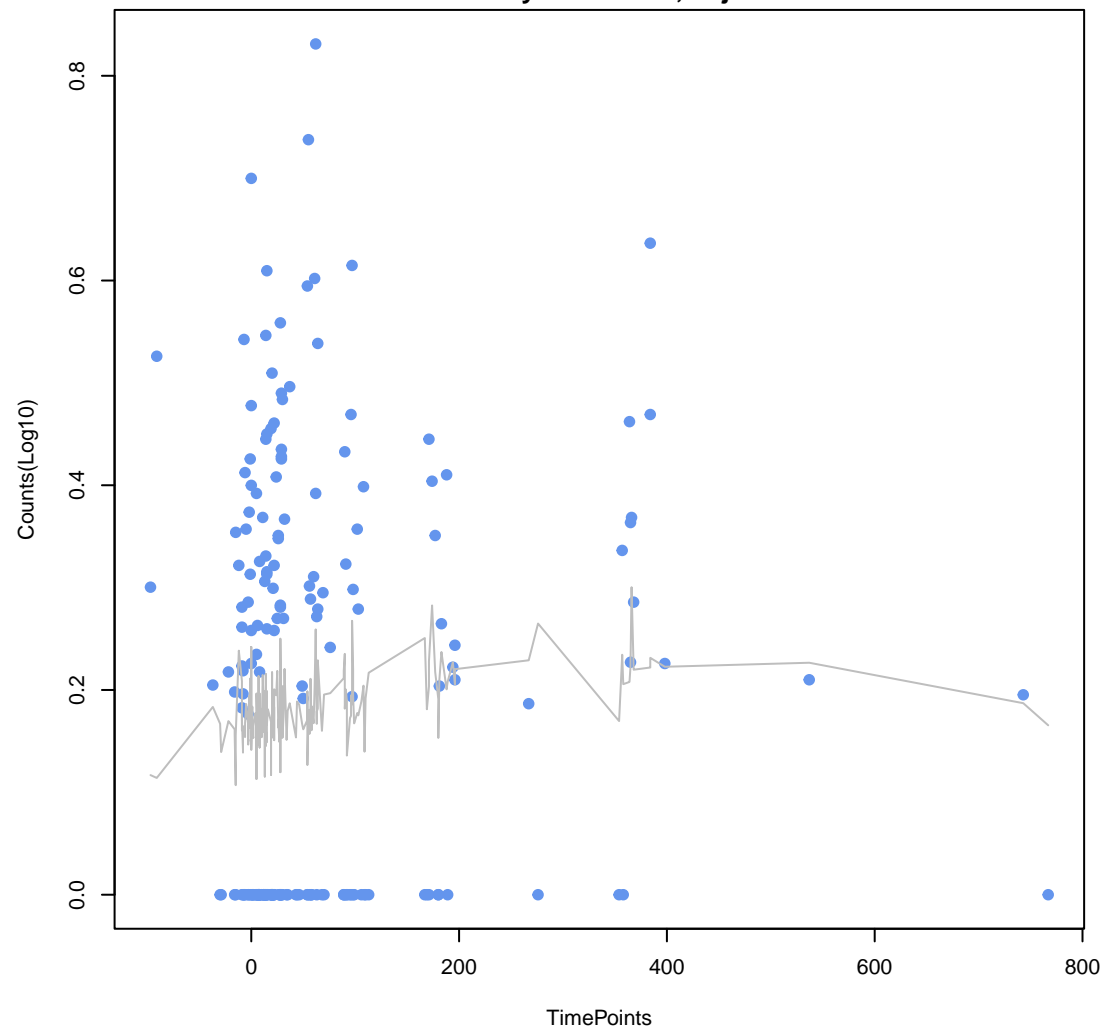
**efrB**

ANOVA P=0.447, adj. ANOVA-P=0.803  
Line vs. Poly F-P=0.109, adj. F-P=0.755



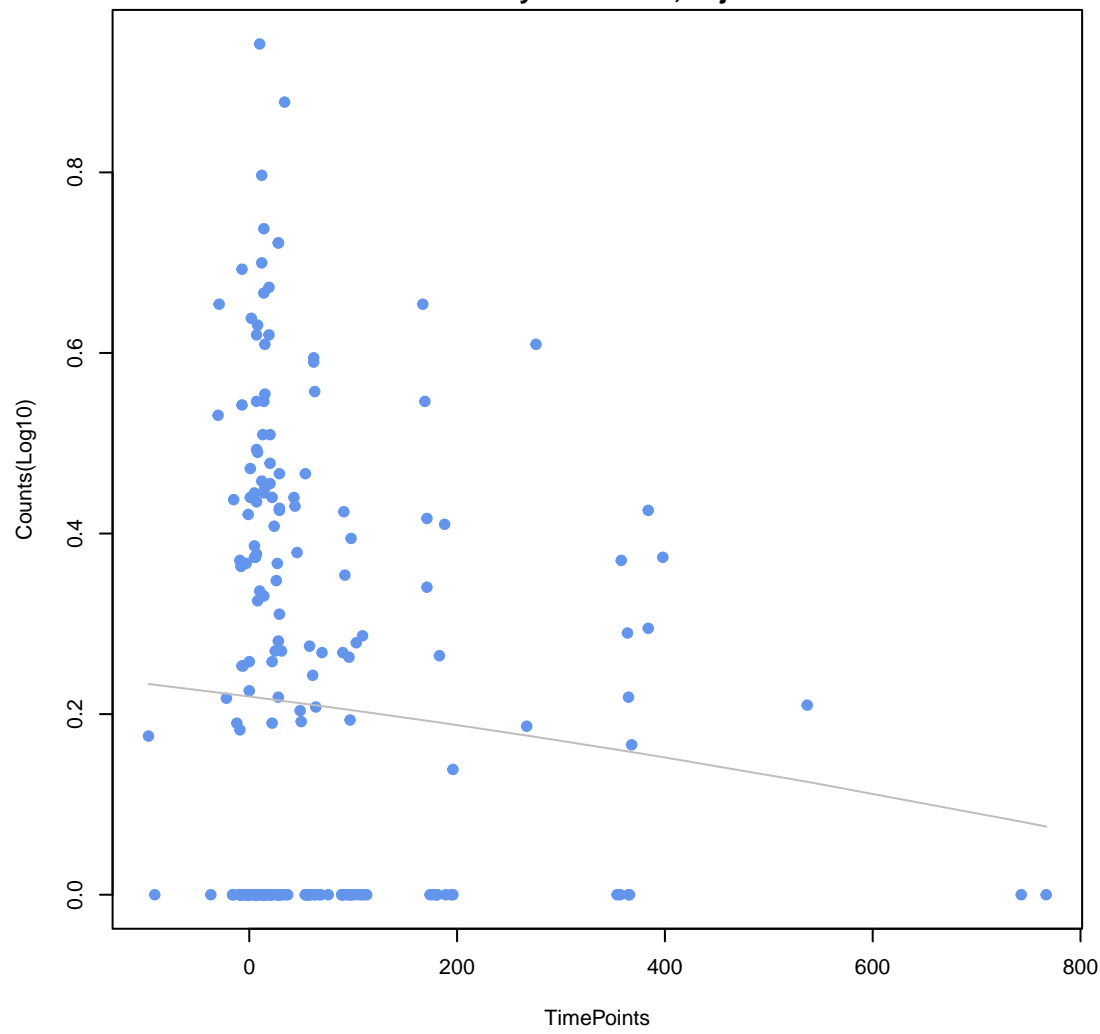
**baeR**

ANOVA P=0.45, adj. ANOVA-P=0.803  
Line vs. Poly F-P=0.741, adj. F-P=1



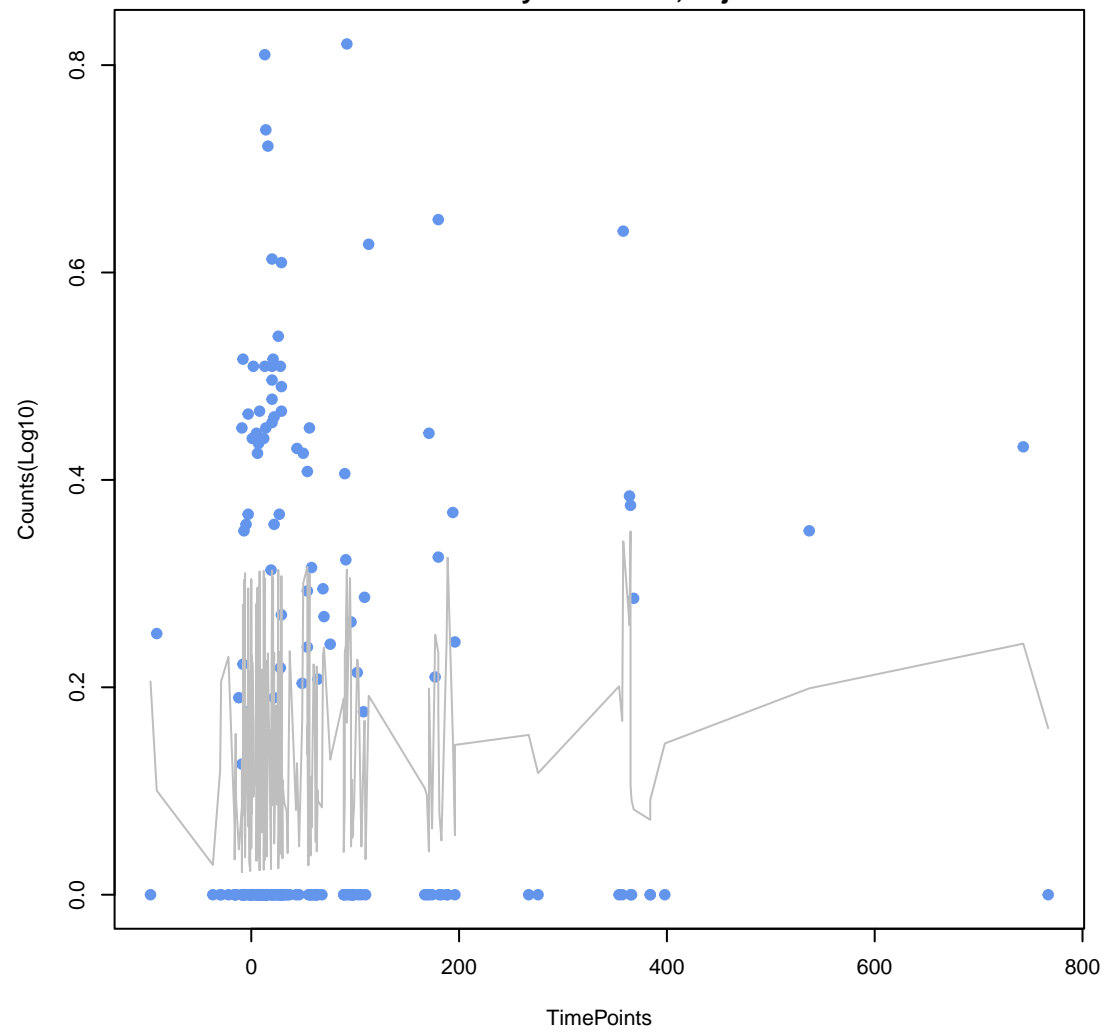
**msrC**

ANOVA P=0.462, adj. ANOVA-P=0.803  
Line vs. Poly F-P=0.927, adj. F-P=1

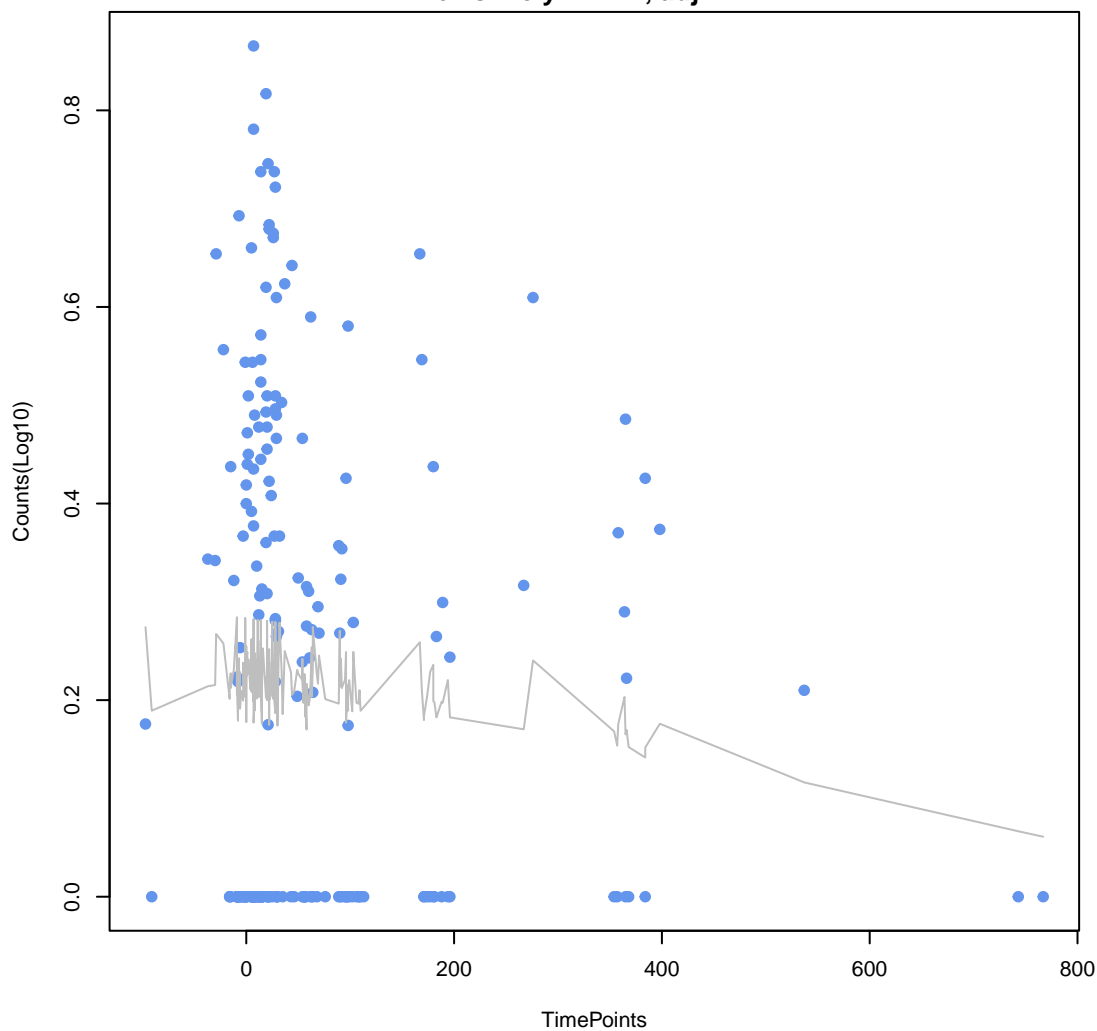


**mdeA**

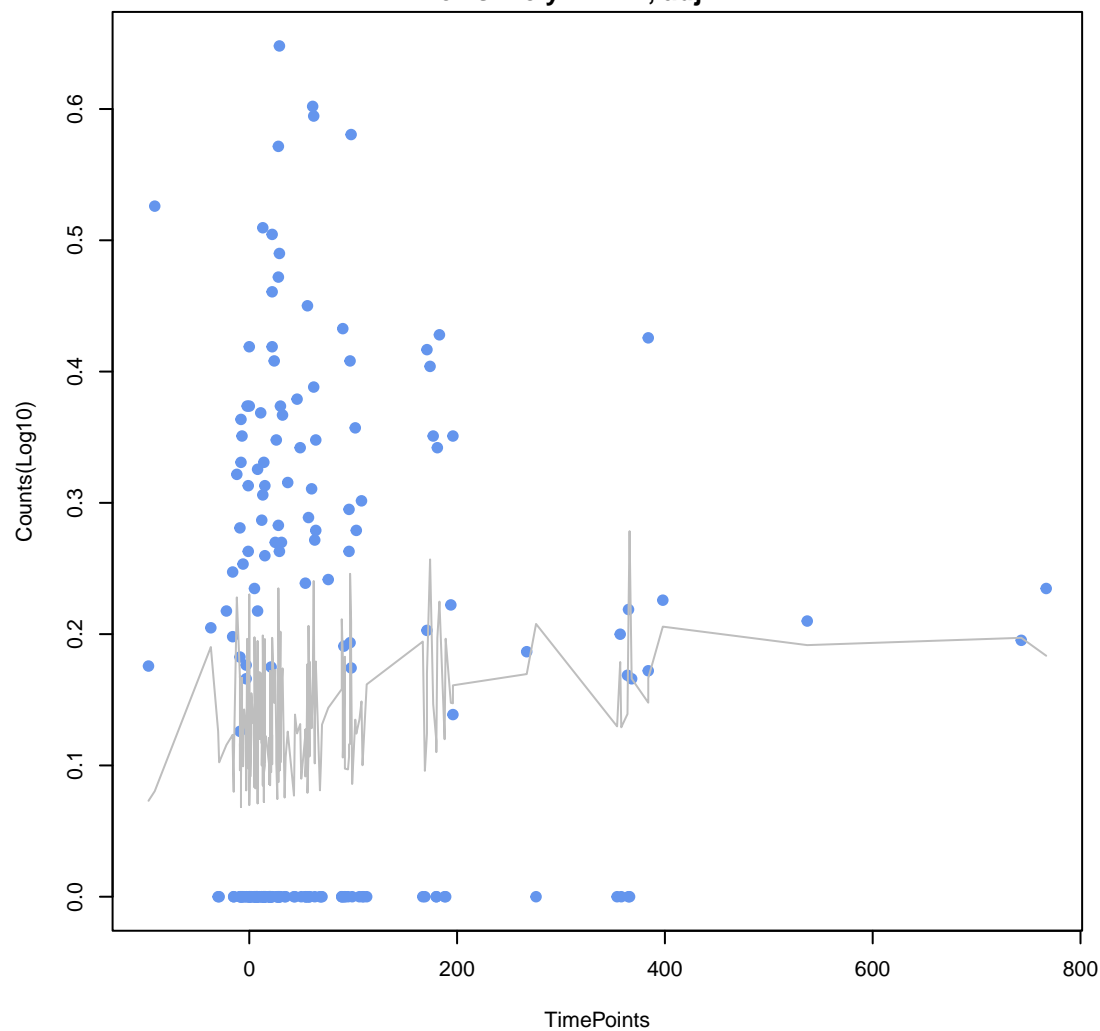
ANOVA P=0.466, adj. ANOVA-P=0.803  
Line vs. Poly F-P=0.901, adj. F-P=1



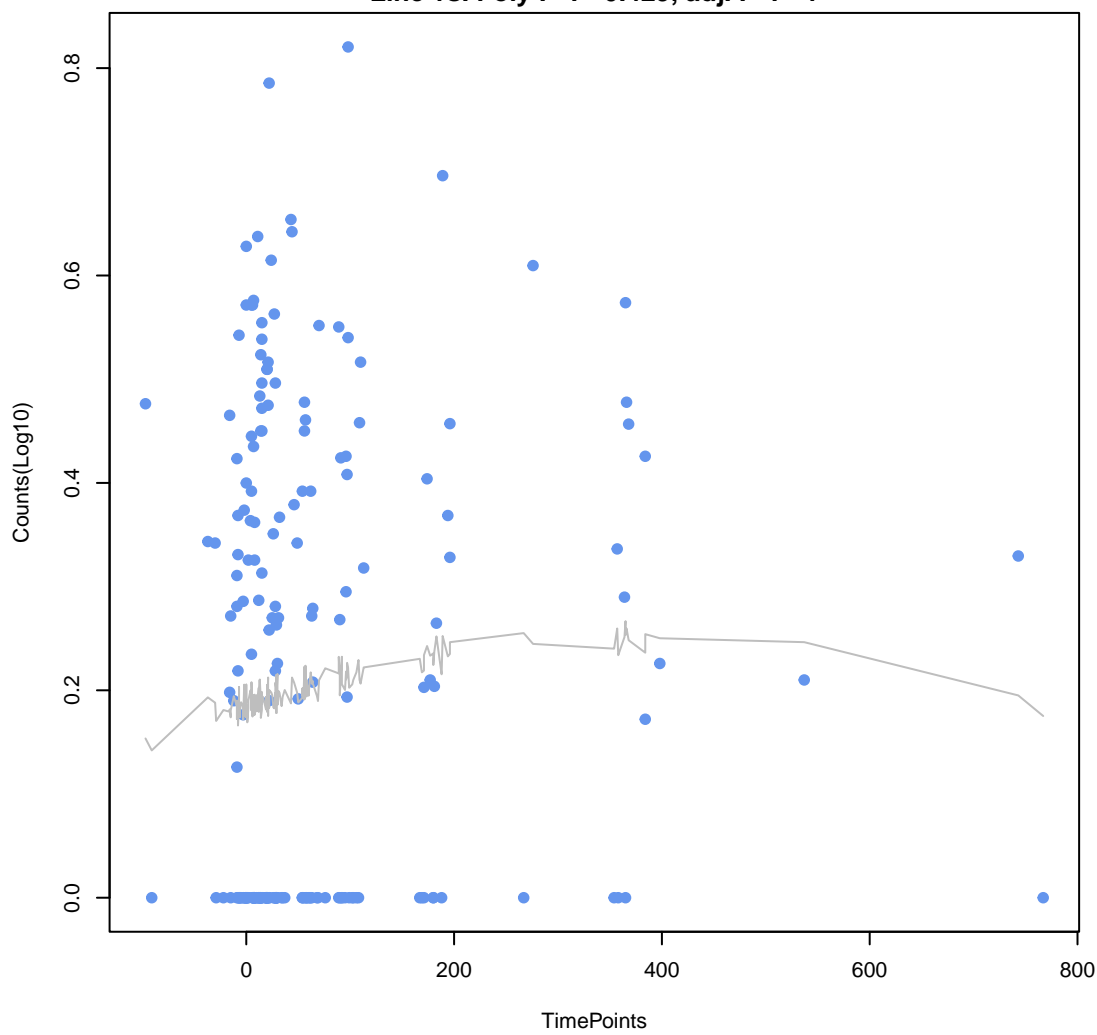
**vanS gene in vanA cluster**  
ANOVA P=0.472, adj. ANOVA-P=0.803  
Line vs. Poly F-P=1, adj. F-P=1



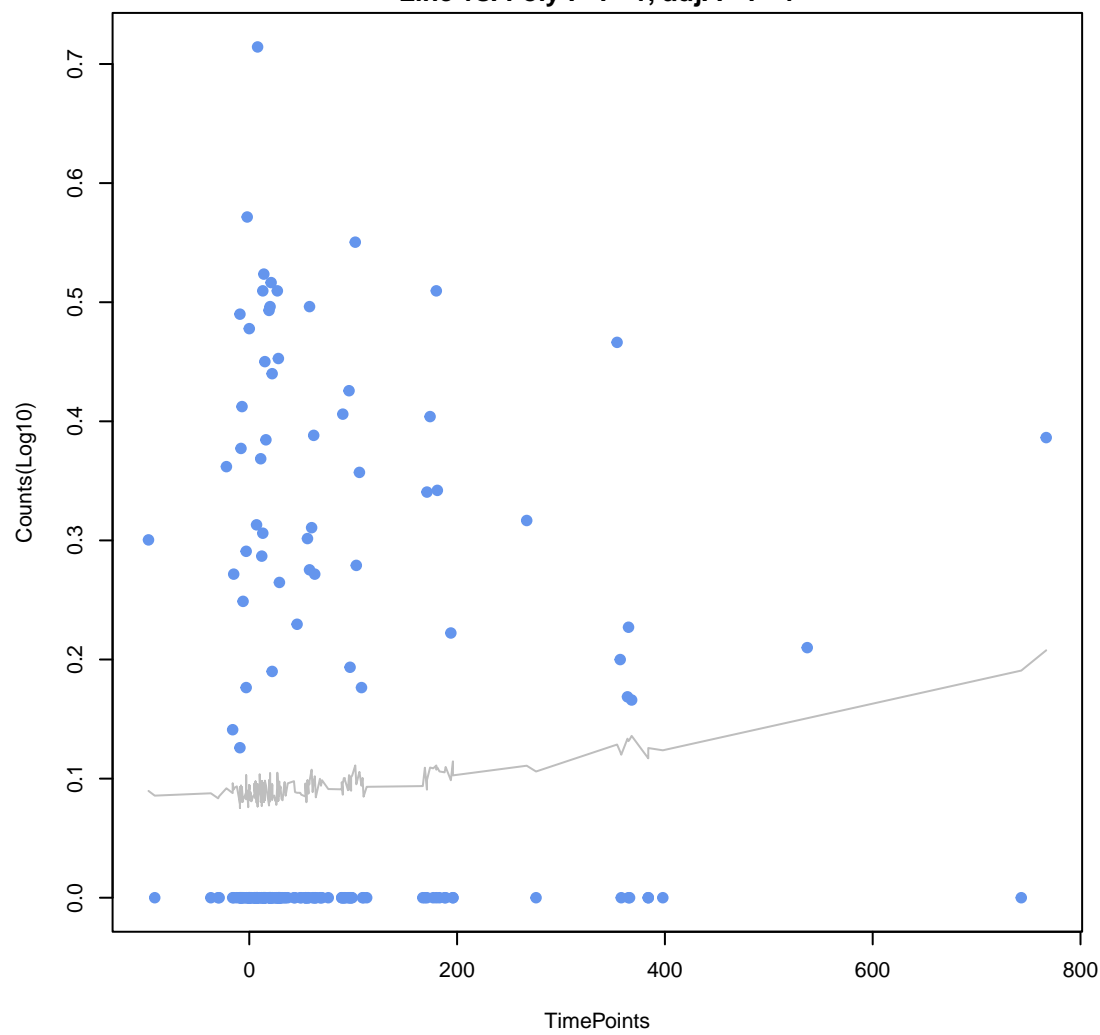
**emrR**  
ANOVA P=0.474, adj. ANOVA-P=0.803  
Line vs. Poly F-P=1, adj. F-P=1



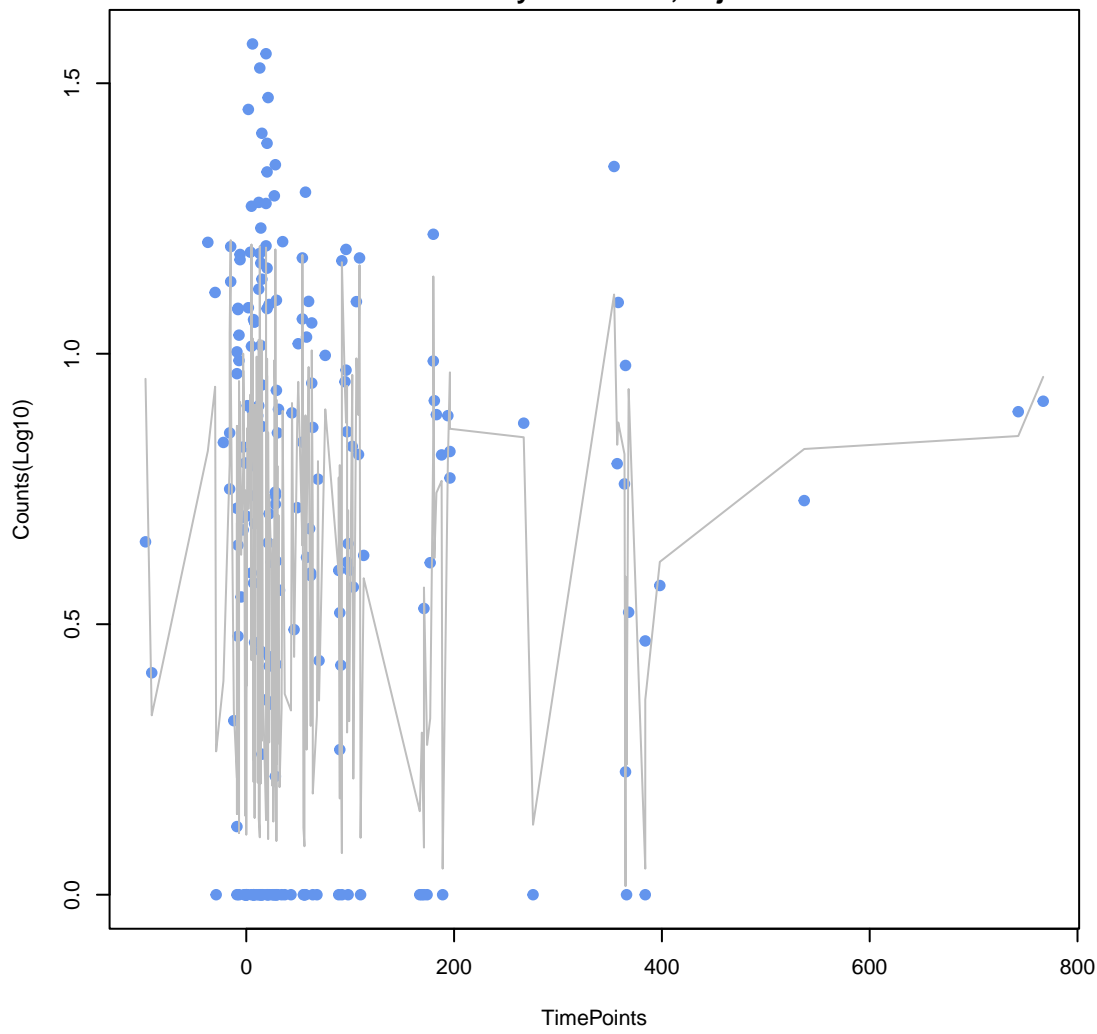
**mdtO**  
ANOVA P=0.478, adj. ANOVA-P=0.803  
Line vs. Poly F-P=0.429, adj. F-P=1



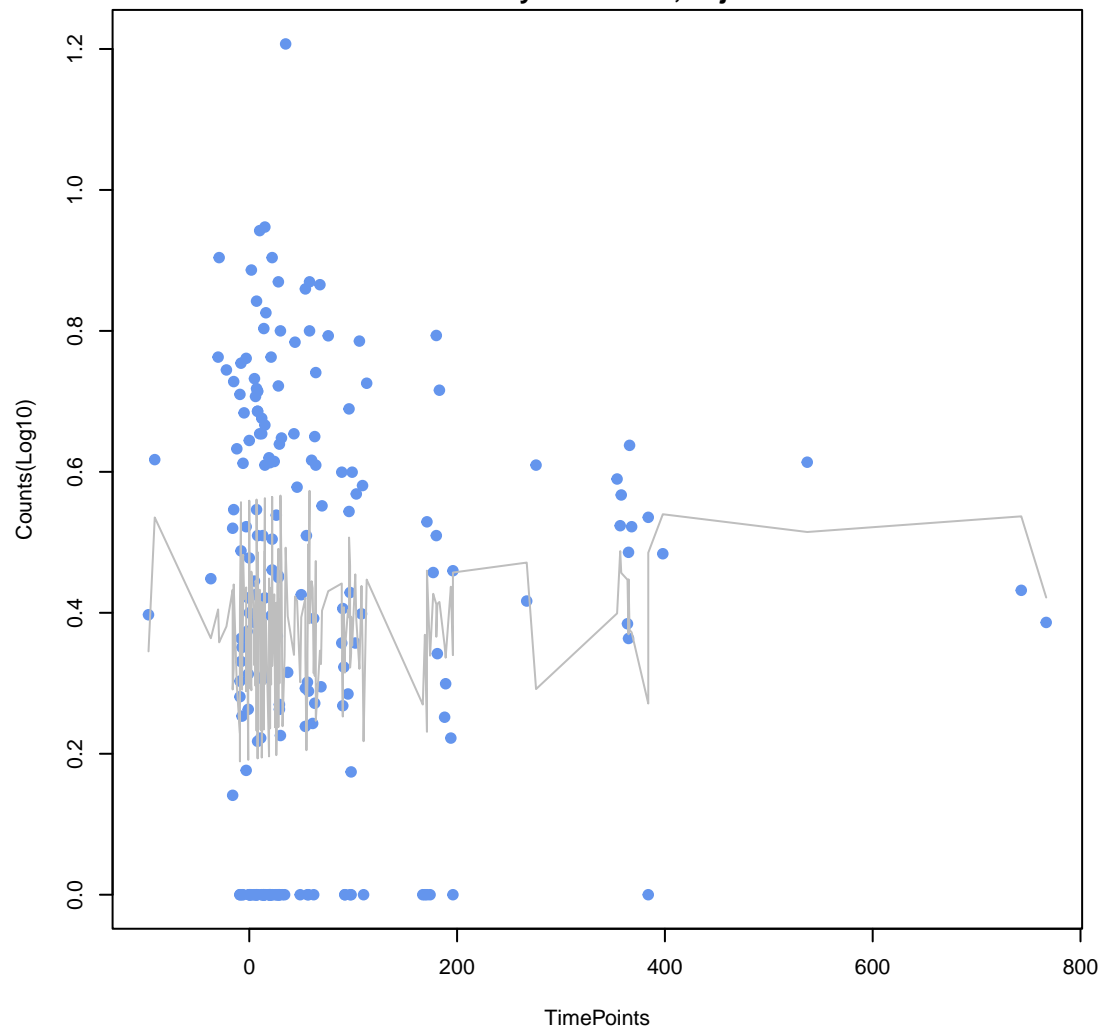
**tet(W/N/W)**  
ANOVA P=0.483, adj. ANOVA-P=0.803  
Line vs. Poly F-P=1, adj. F-P=1

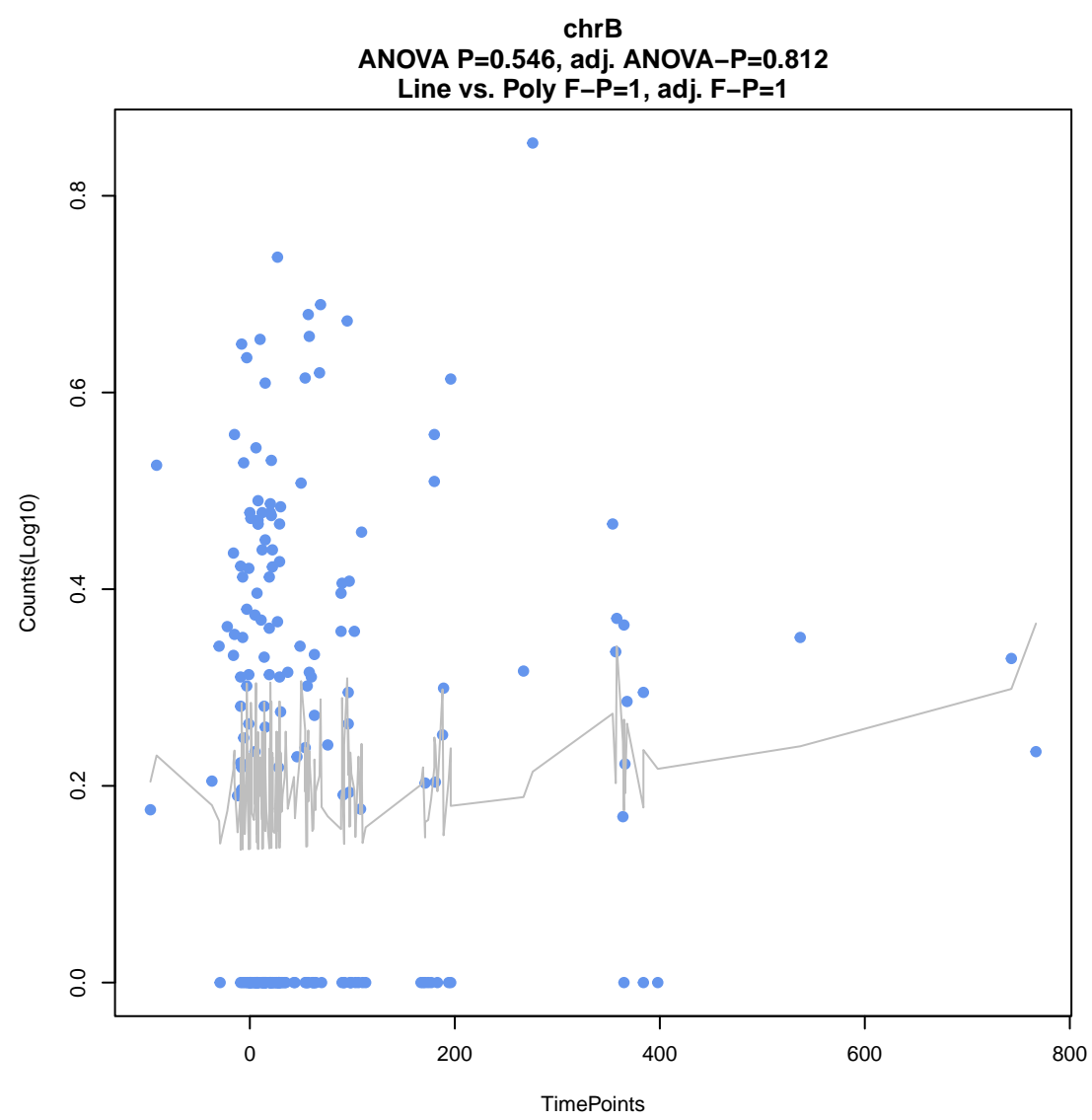
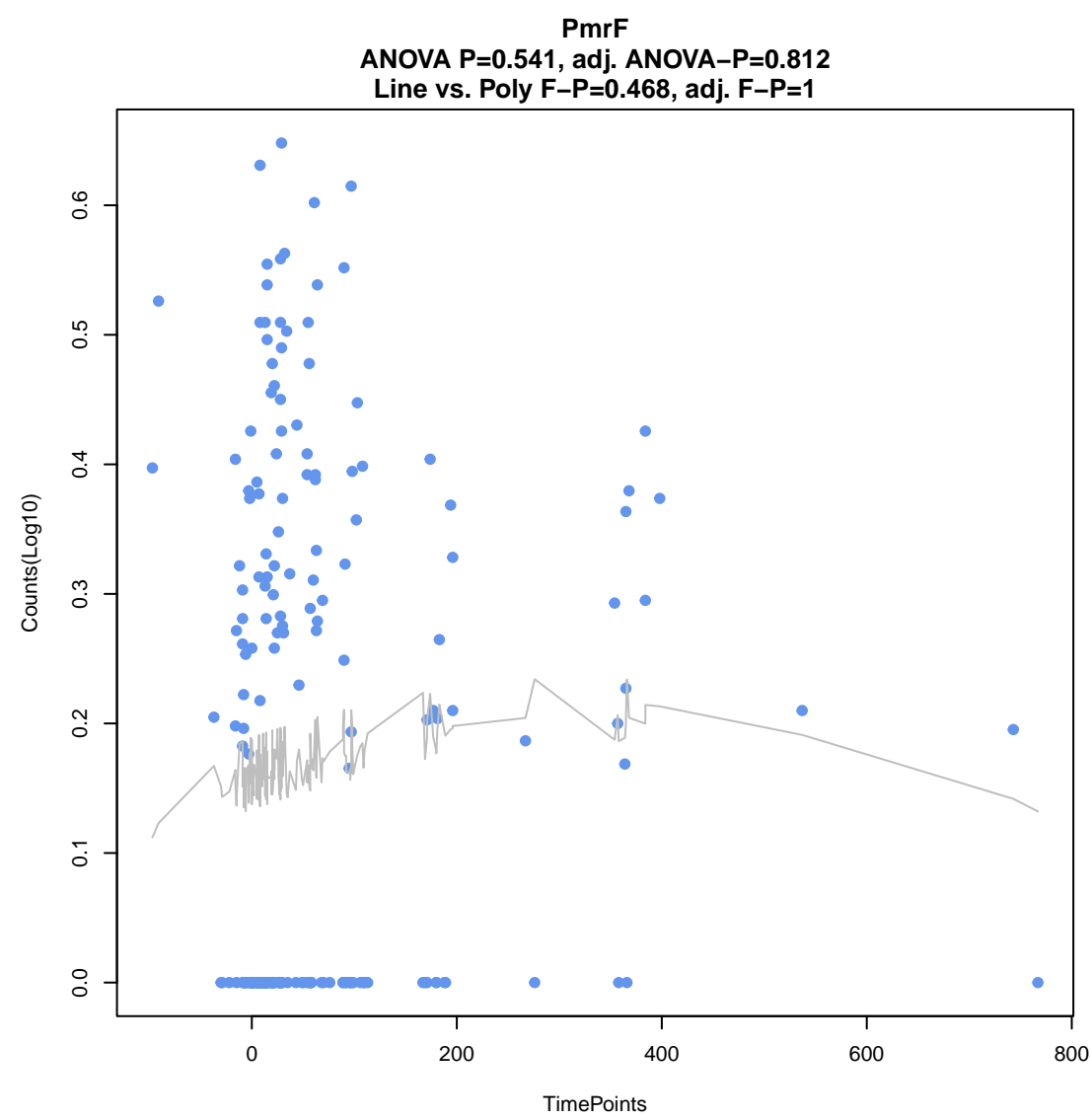
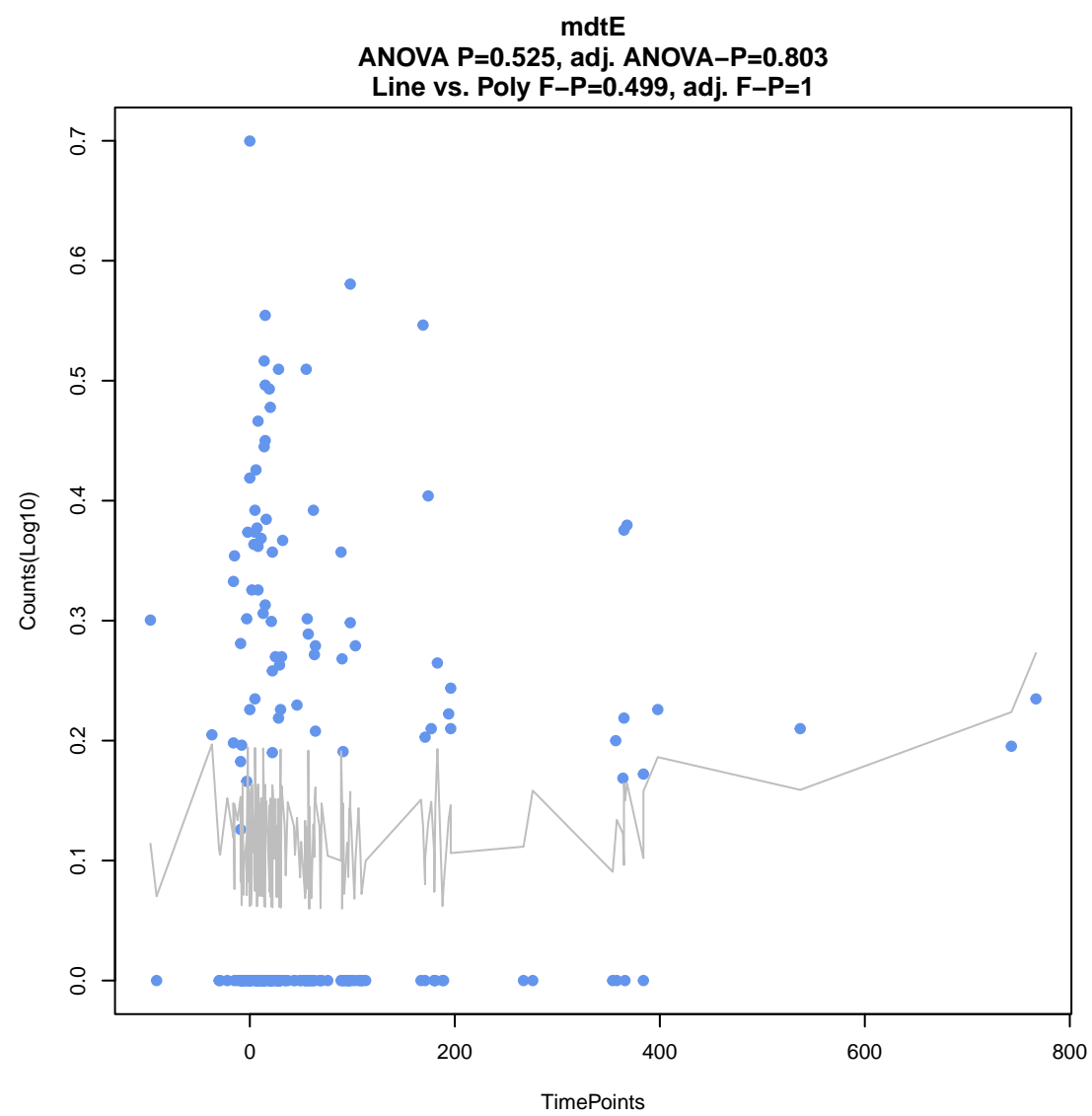
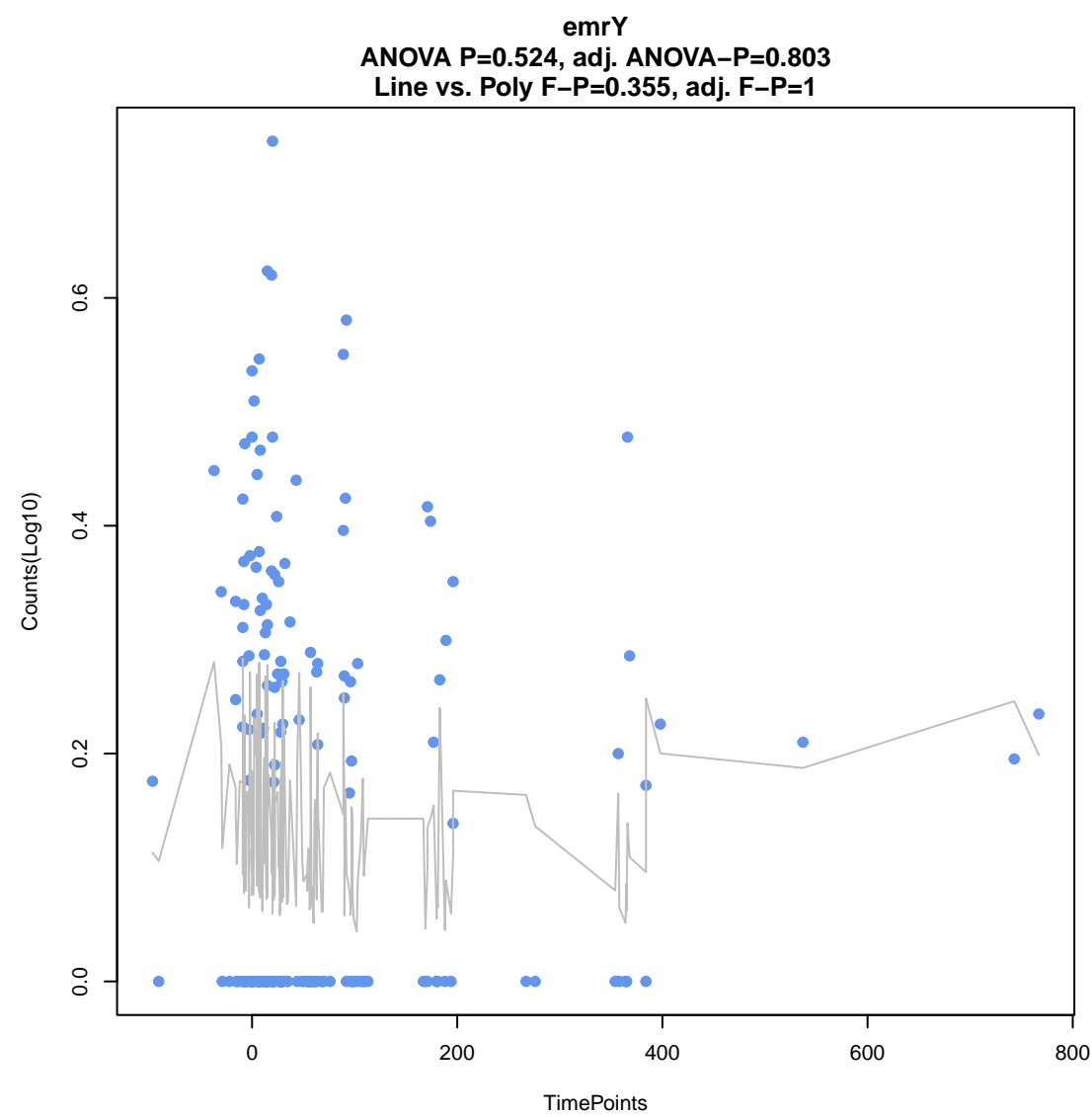
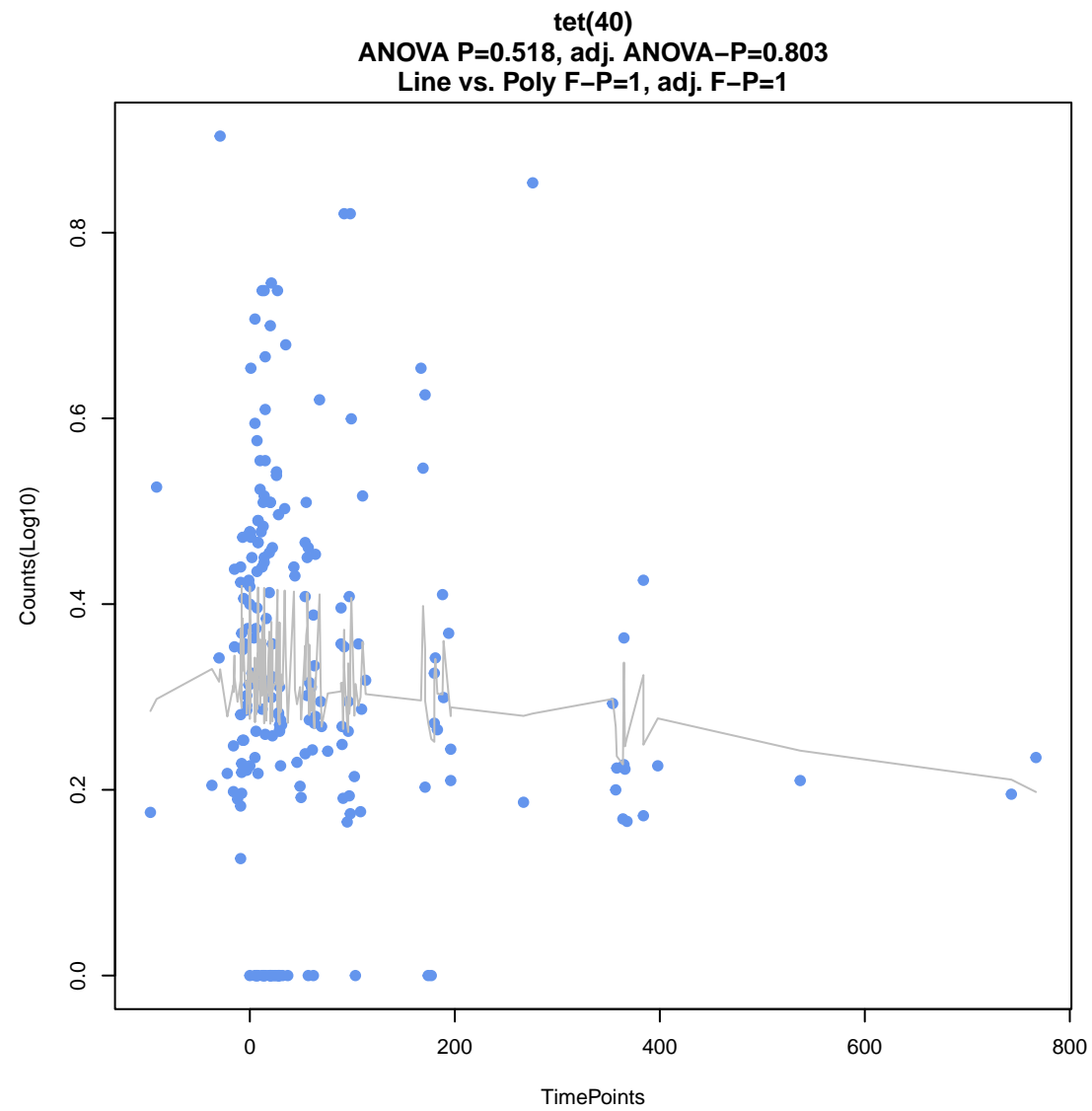
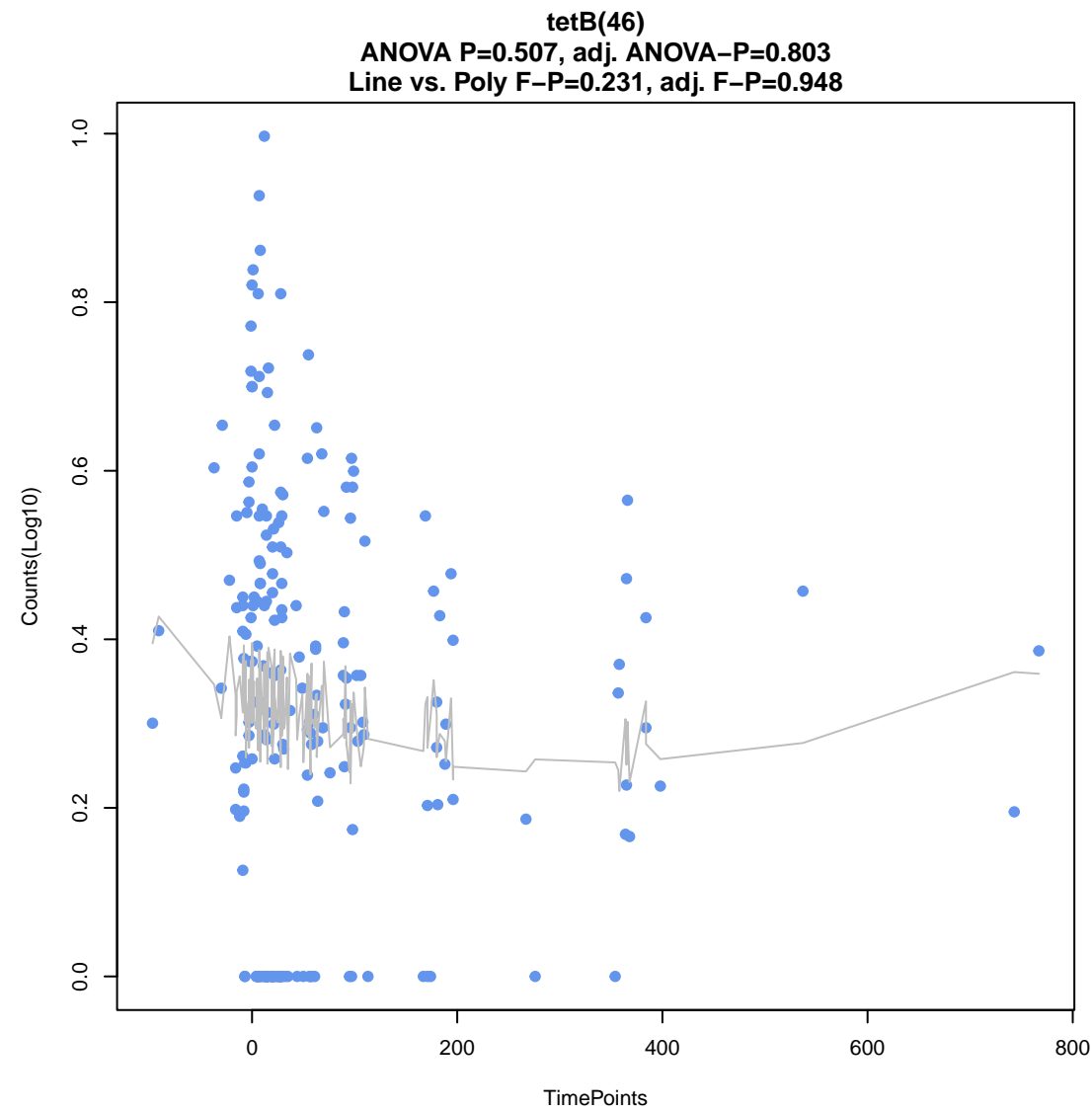


**adeF**  
ANOVA P=0.499, adj. ANOVA-P=0.803  
Line vs. Poly F-P=0.698, adj. F-P=1

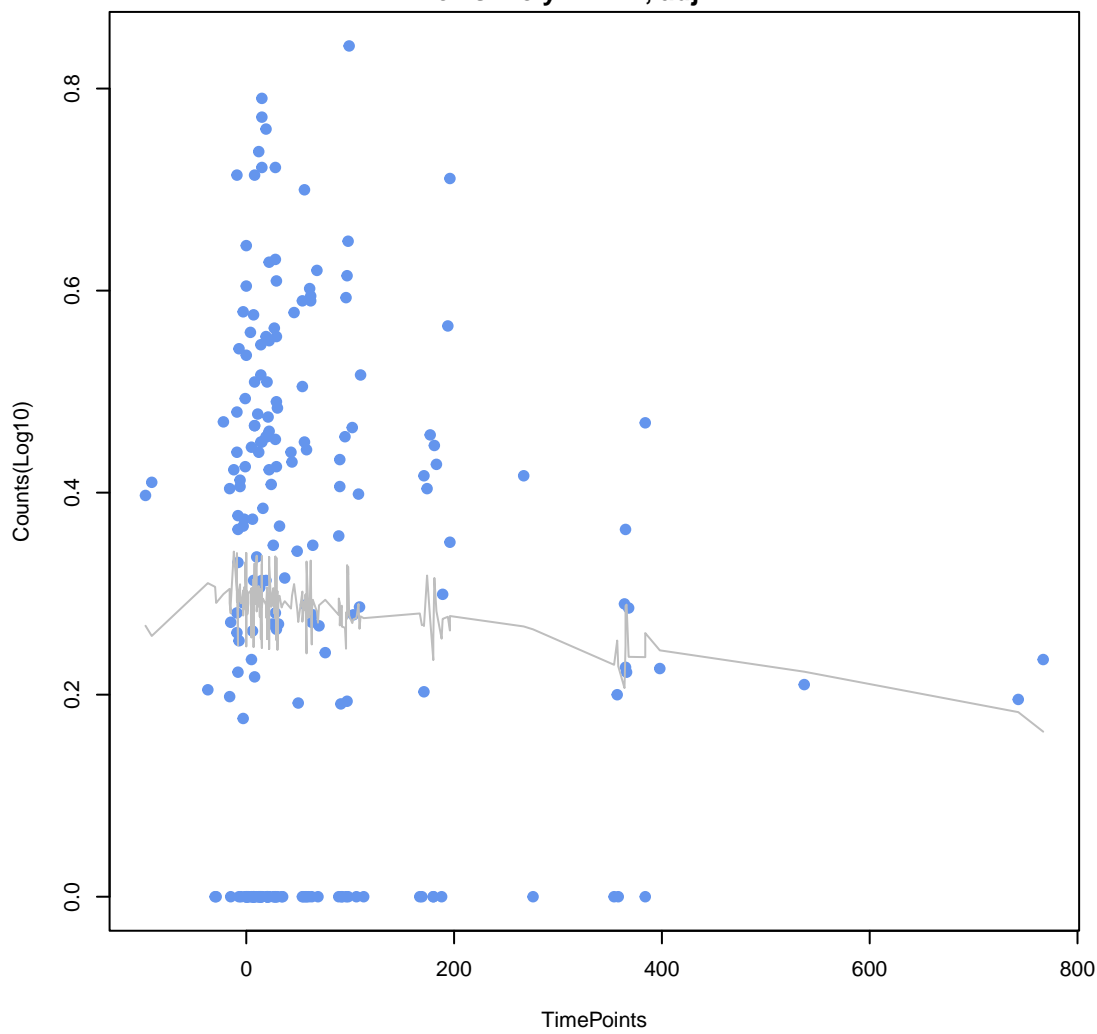


**poxtA**  
ANOVA P=0.5, adj. ANOVA-P=0.803  
Line vs. Poly F-P=0.755, adj. F-P=1

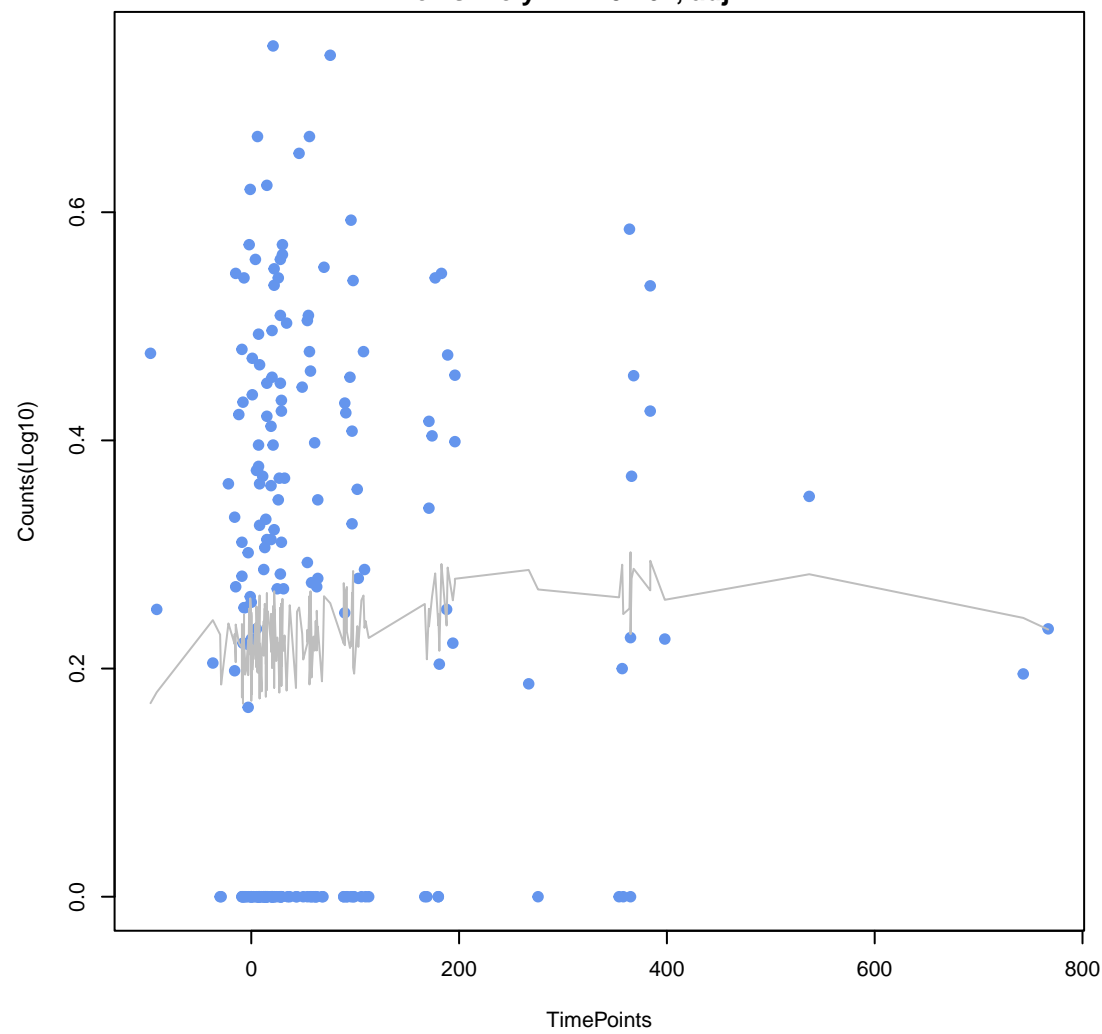




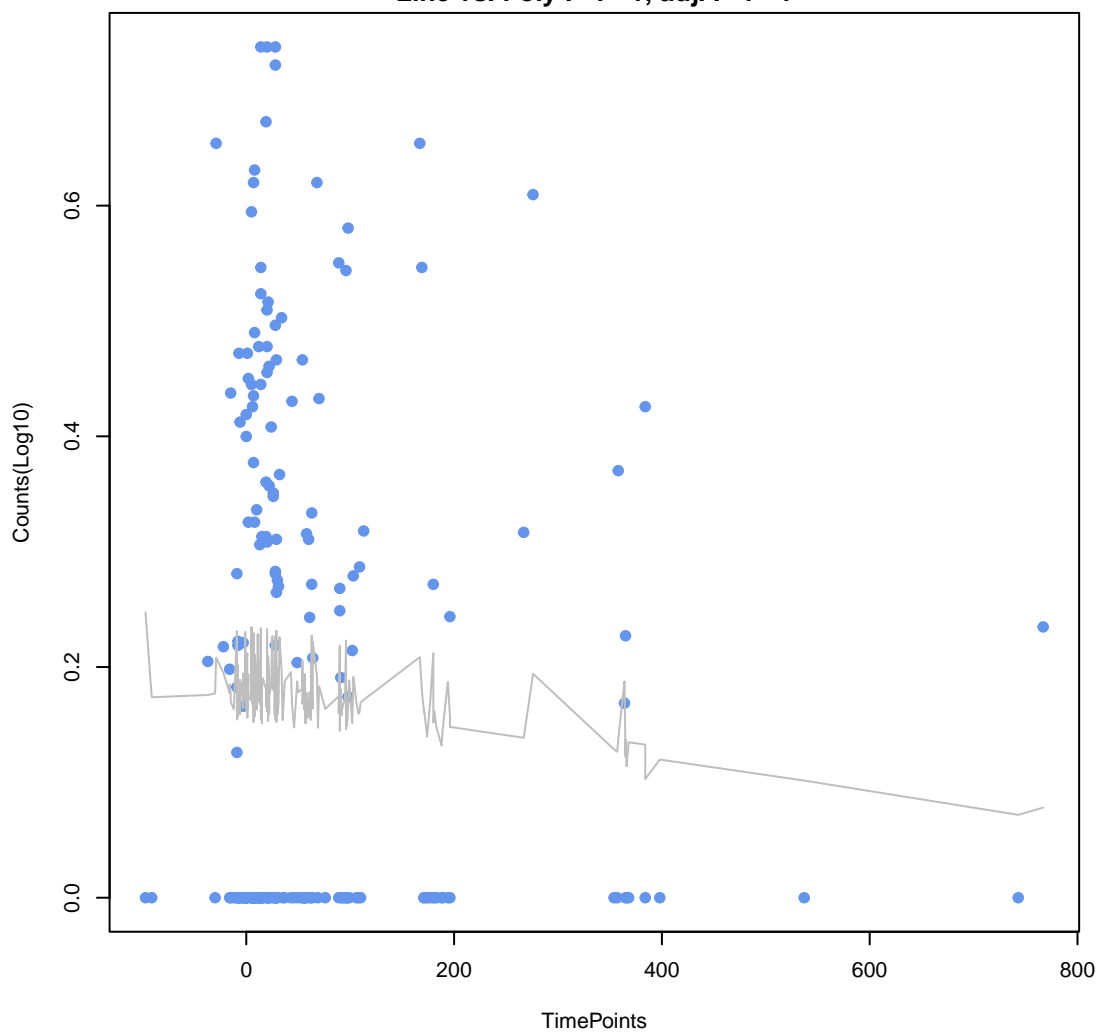
**mdtC**  
ANOVA P=0.564, adj. ANOVA-P=0.822  
Line vs. Poly F-P=1, adj. F-P=1



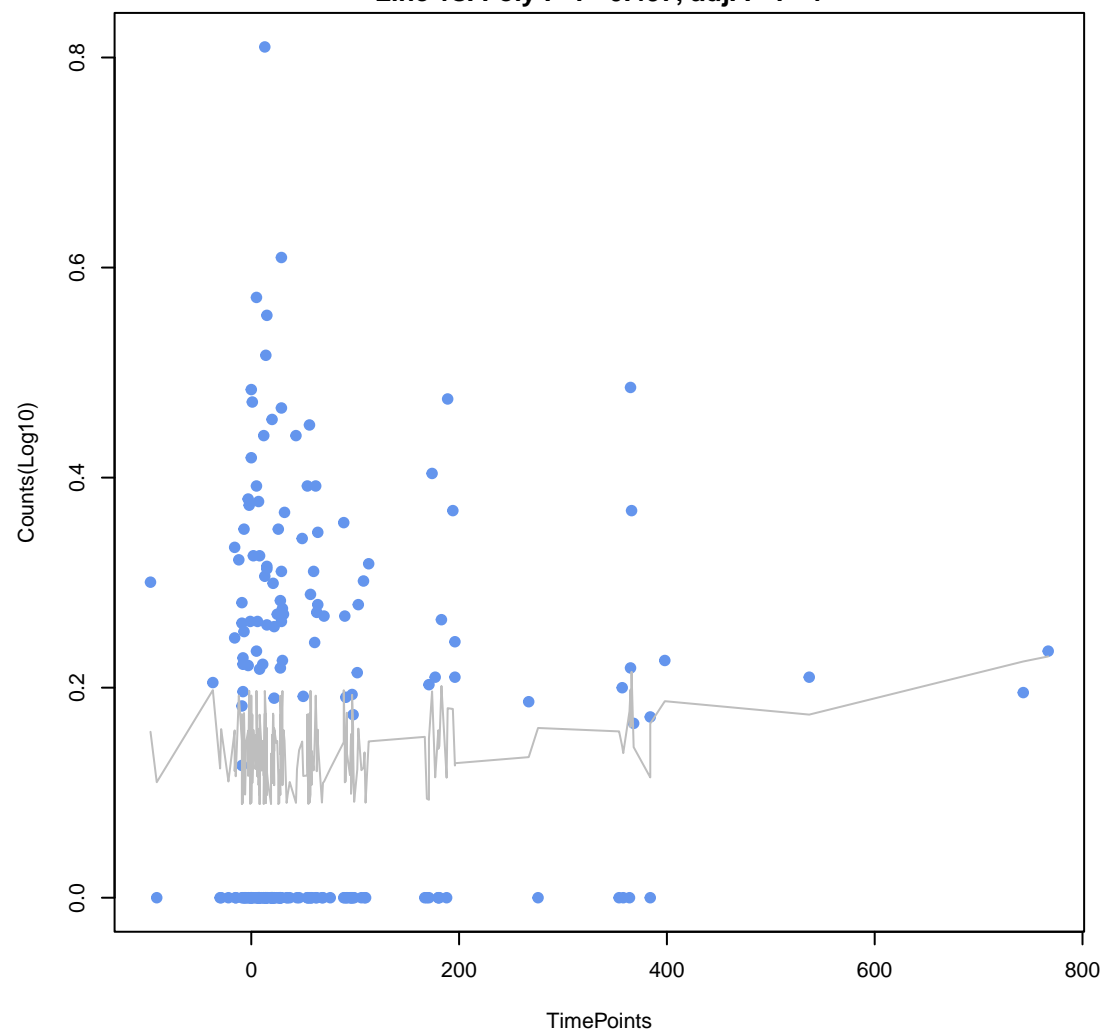
**cpxA**  
ANOVA P=0.575, adj. ANOVA-P=0.822  
Line vs. Poly F-P=0.267, adj. F-P=1



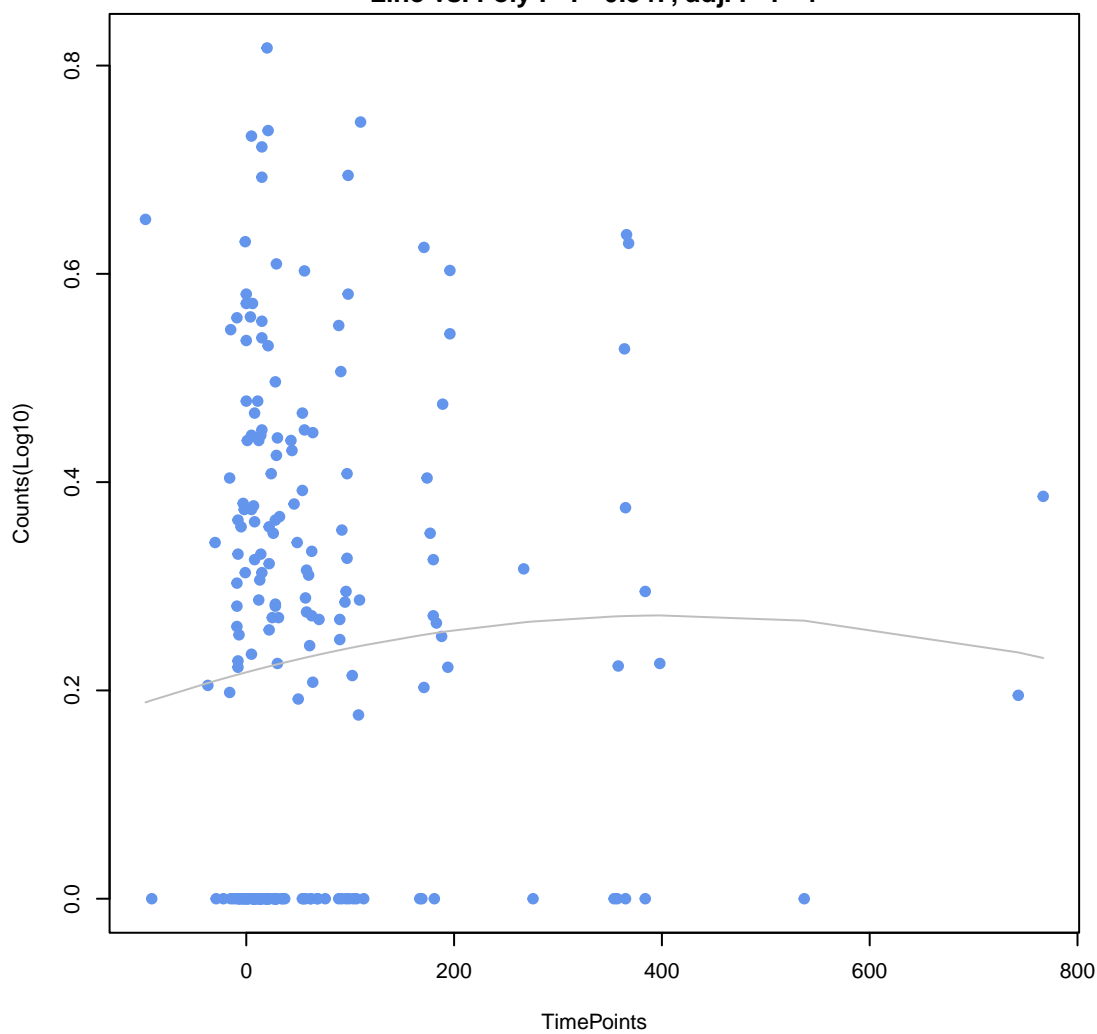
**vanX gene in vanA cluster**  
ANOVA P=0.576, adj. ANOVA-P=0.822  
Line vs. Poly F-P=1, adj. F-P=1



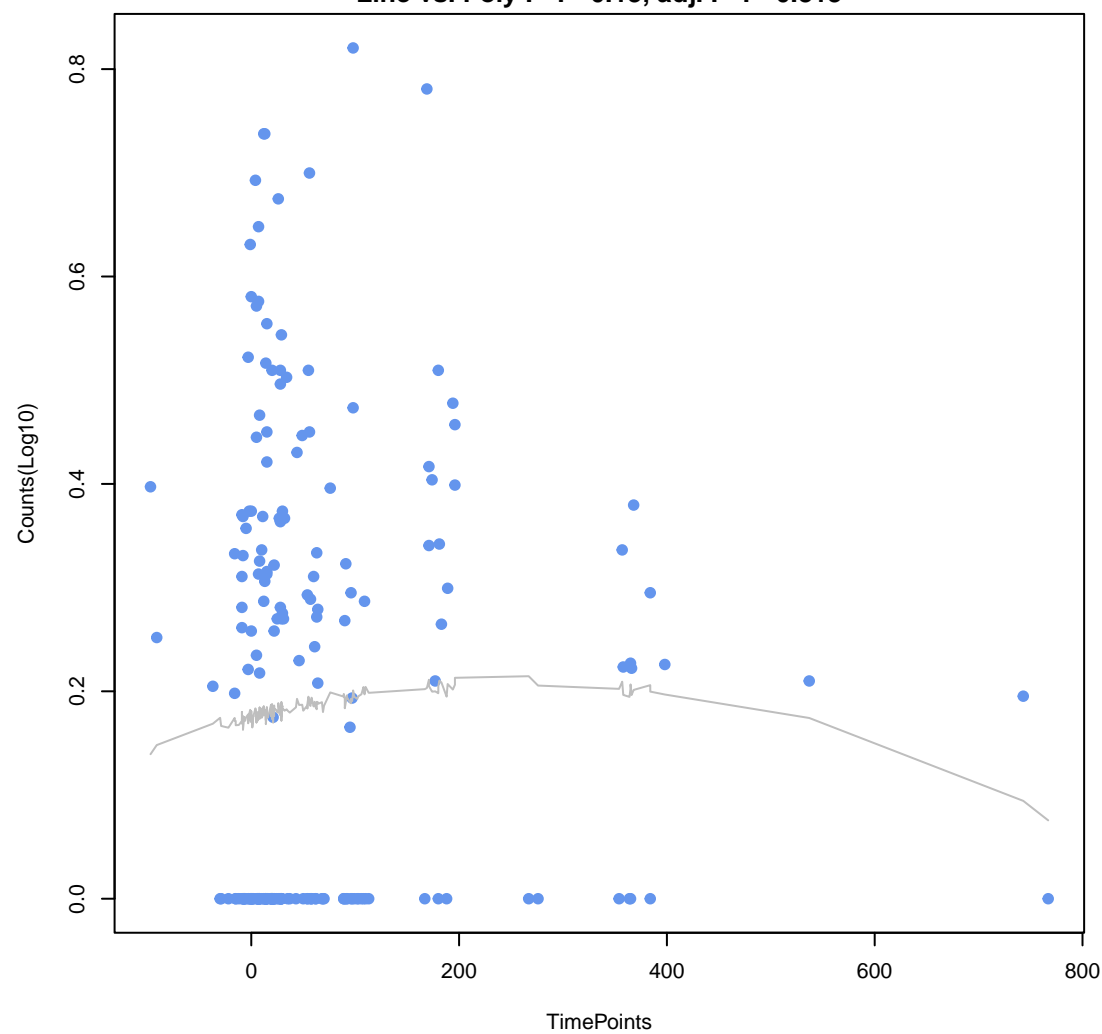
**Escherichia coli acrA**  
ANOVA P=0.597, adj. ANOVA-P=0.83  
Line vs. Poly F-P=0.497, adj. F-P=1



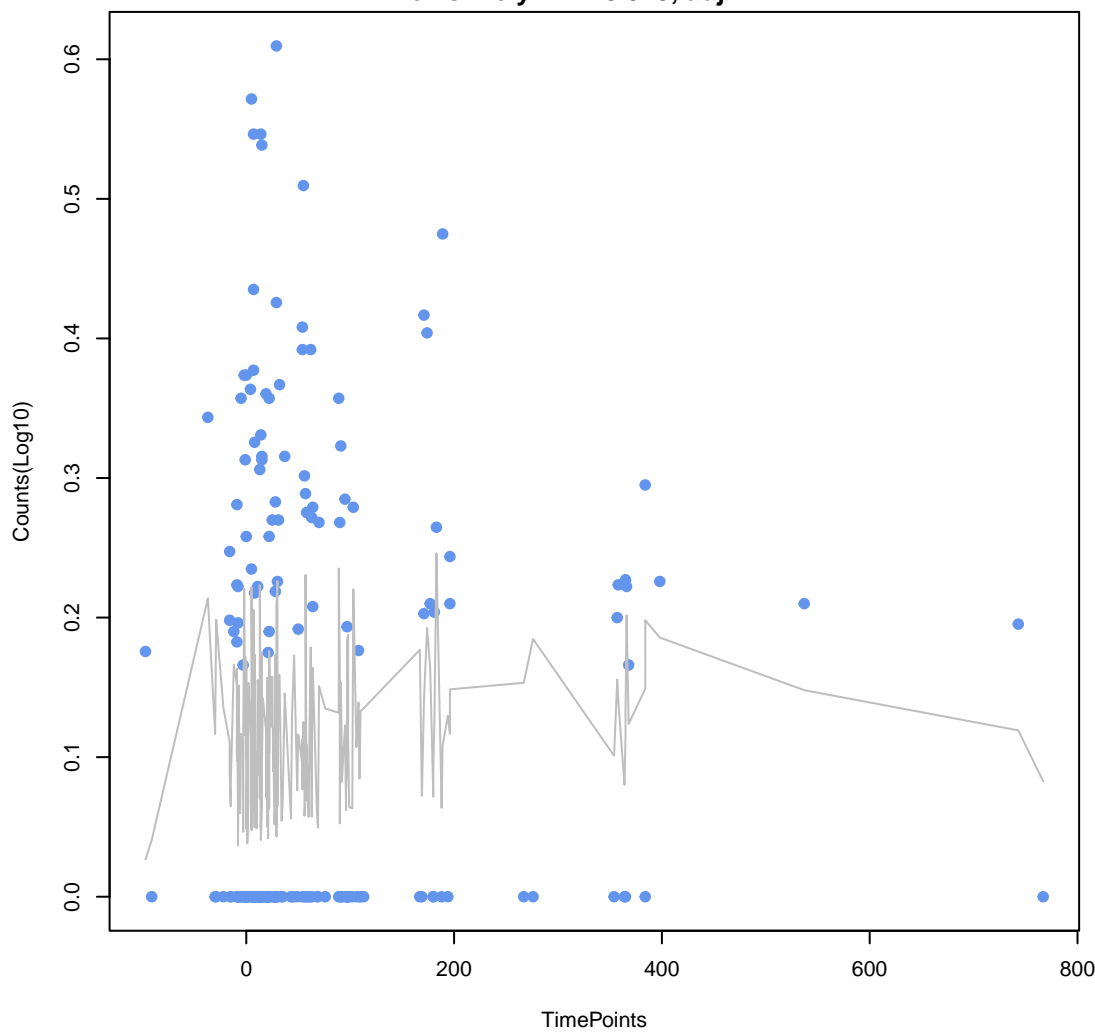
**AcrF**  
ANOVA P=0.597, adj. ANOVA-P=0.83  
Line vs. Poly F-P=0.547, adj. F-P=1



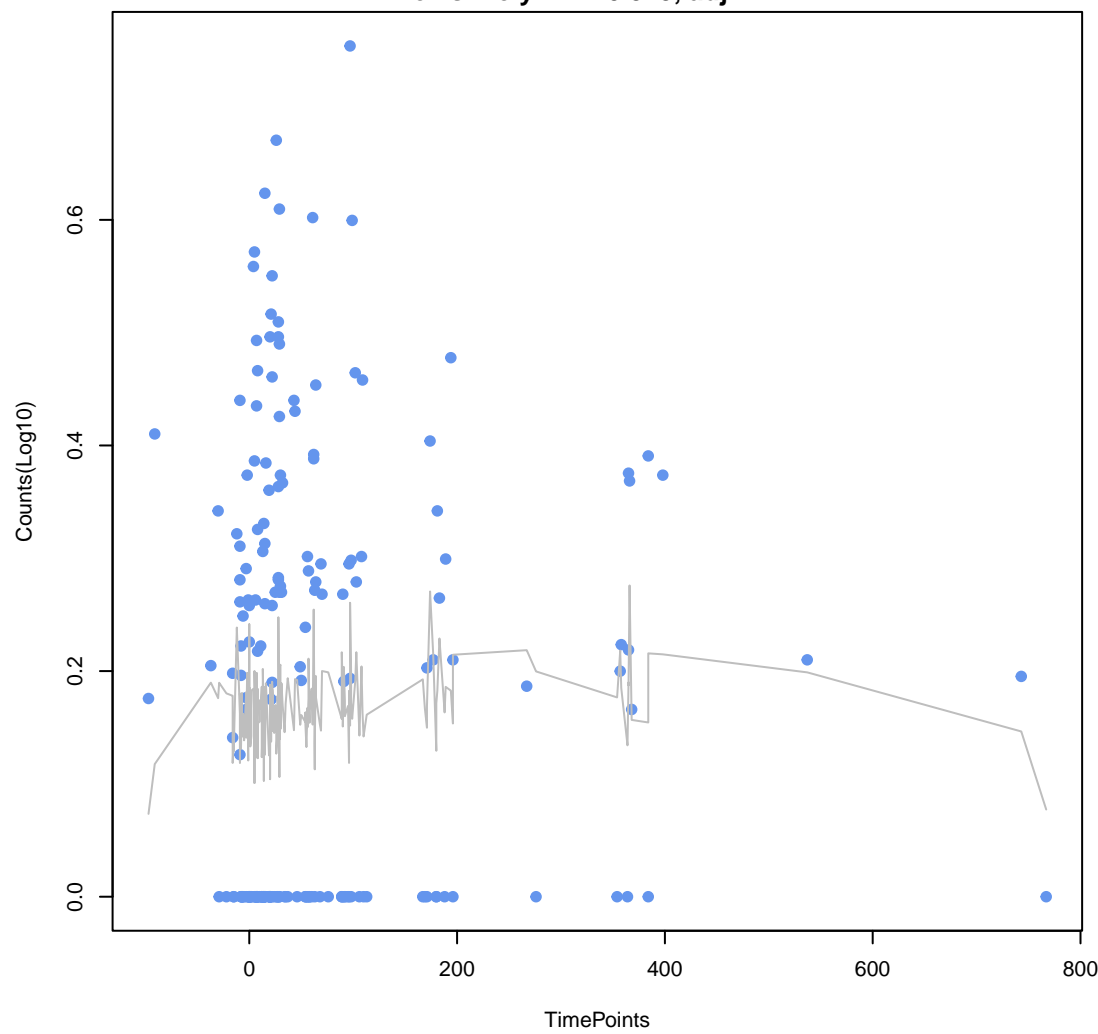
**ToIC**  
ANOVA P=0.612, adj. ANOVA-P=0.832  
Line vs. Poly F-P=0.13, adj. F-P=0.813



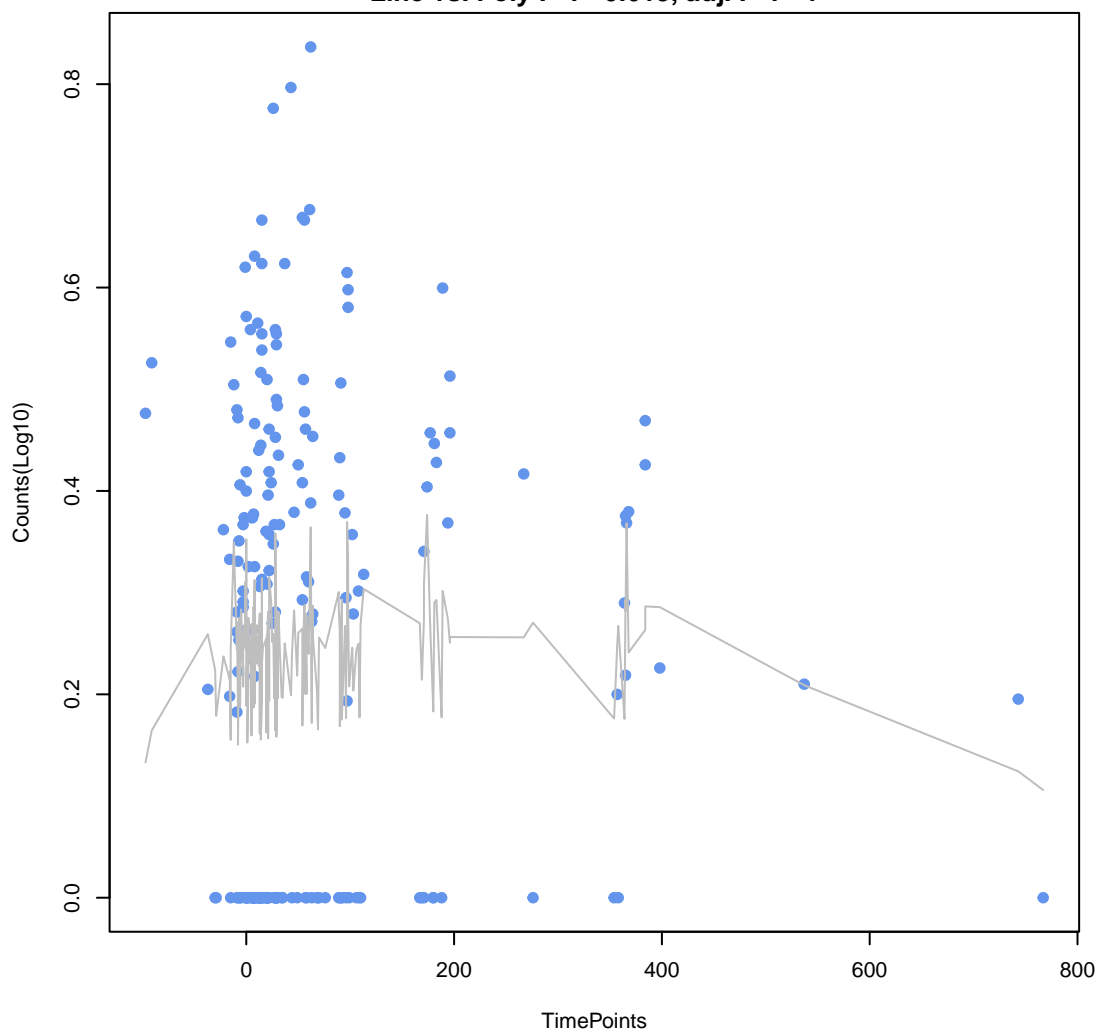
**Escherichia coli soxR with mutation conferring antibiotic resistance**  
ANOVA P=0.614, adj. ANOVA-P=0.832  
Line vs. Poly F-P=0.523, adj. F-P=1



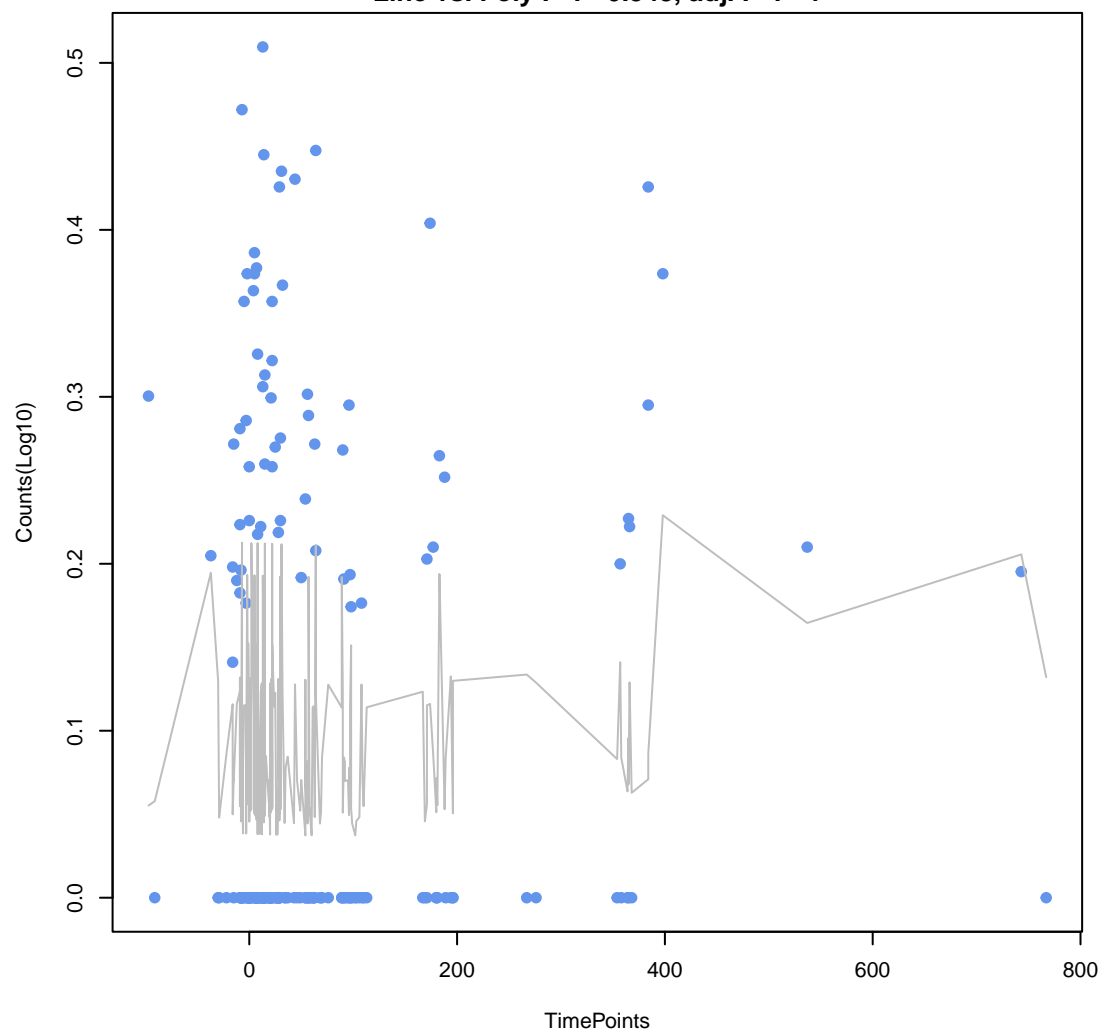
**Escherichia coli mdfA**  
ANOVA P=0.626, adj. ANOVA-P=0.836  
Line vs. Poly F-P=0.525, adj. F-P=1



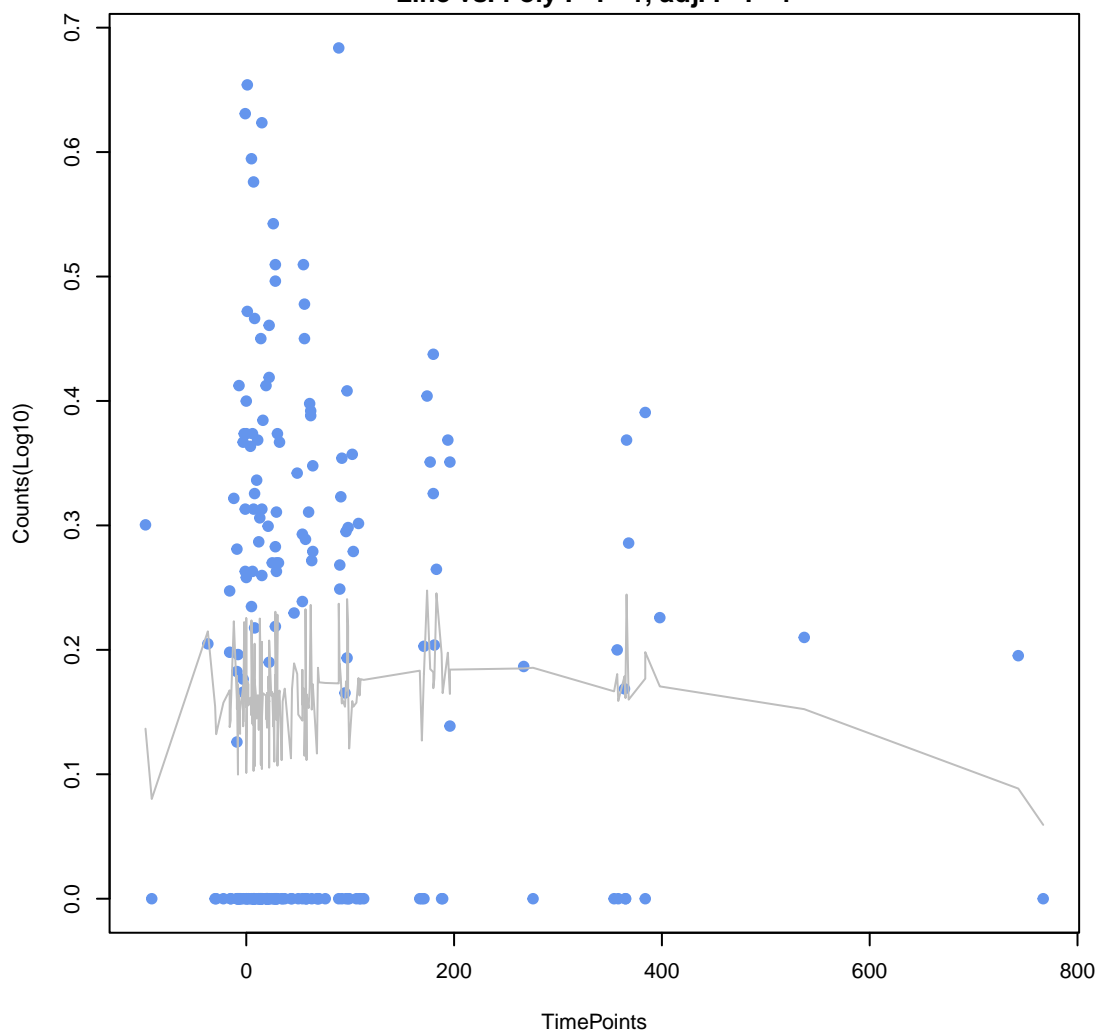
**msbA**  
ANOVA P=0.633, adj. ANOVA-P=0.836  
Line vs. Poly F-P=0.613, adj. F-P=1



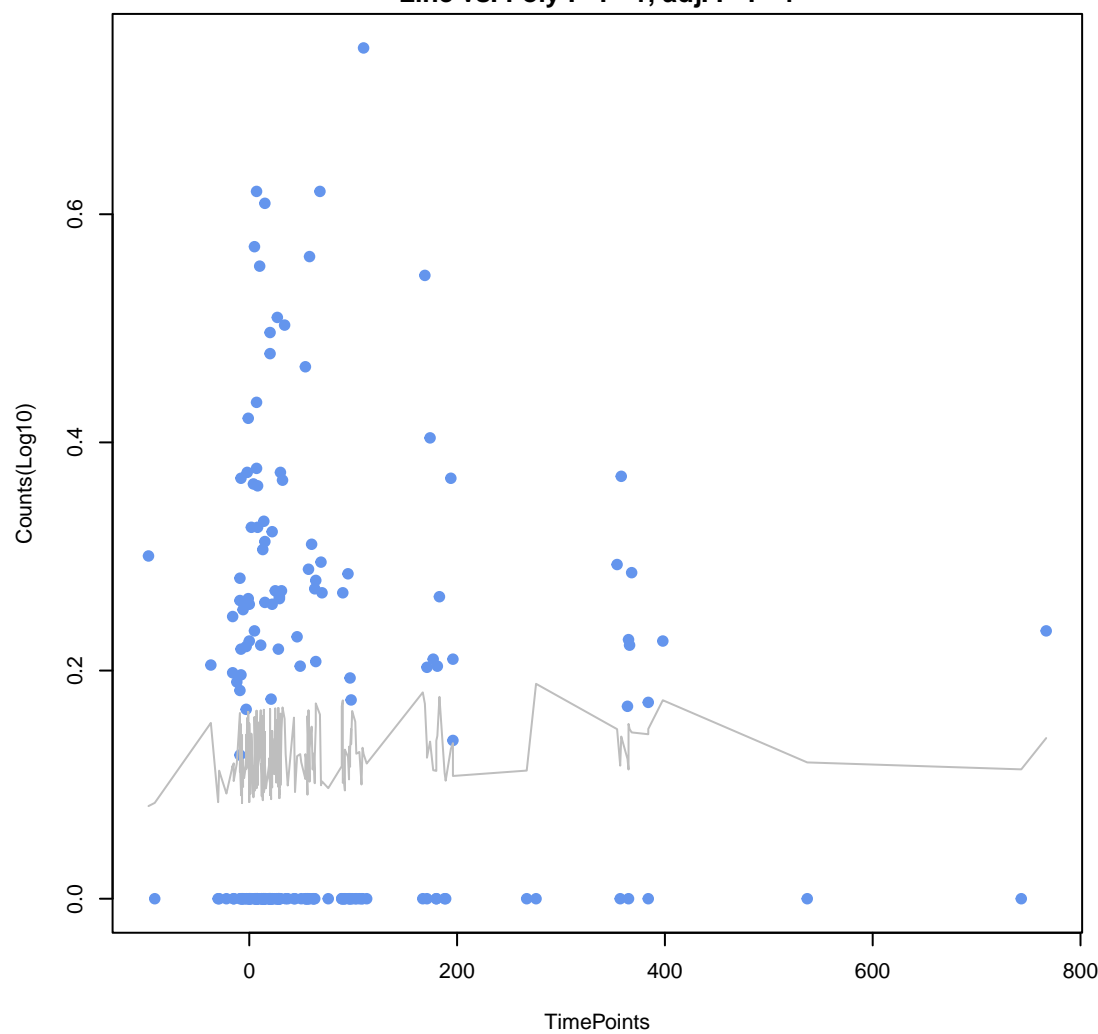
**chia coli AcrAB-TolC with AcrR mutation conferring resistance to ciprofloxacin, tetracycline**  
ANOVA P=0.647, adj. ANOVA-P=0.84  
Line vs. Poly F-P=0.548, adj. F-P=1



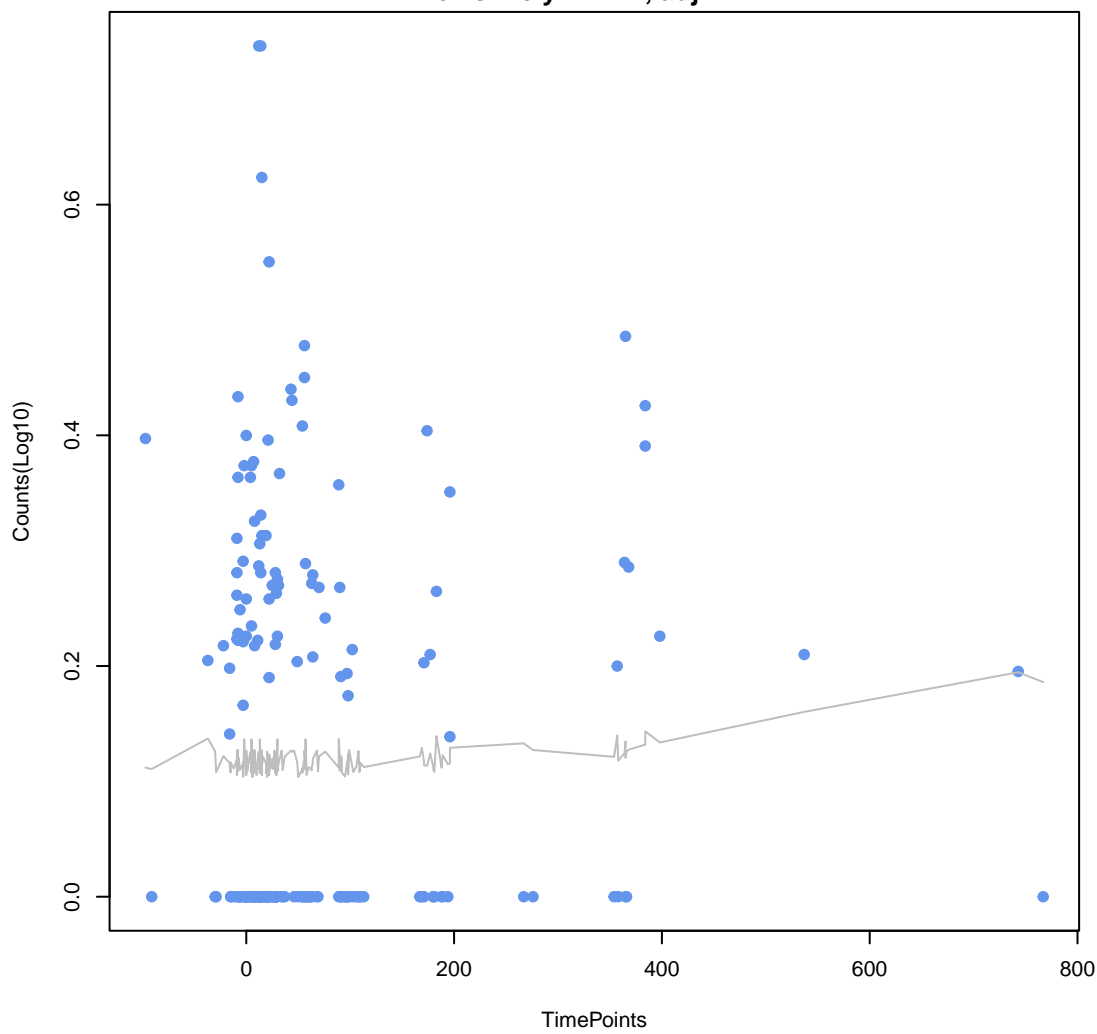
**emrA**  
ANOVA P=0.652, adj. ANOVA-P=0.84  
Line vs. Poly F-P=1, adj. F-P=1



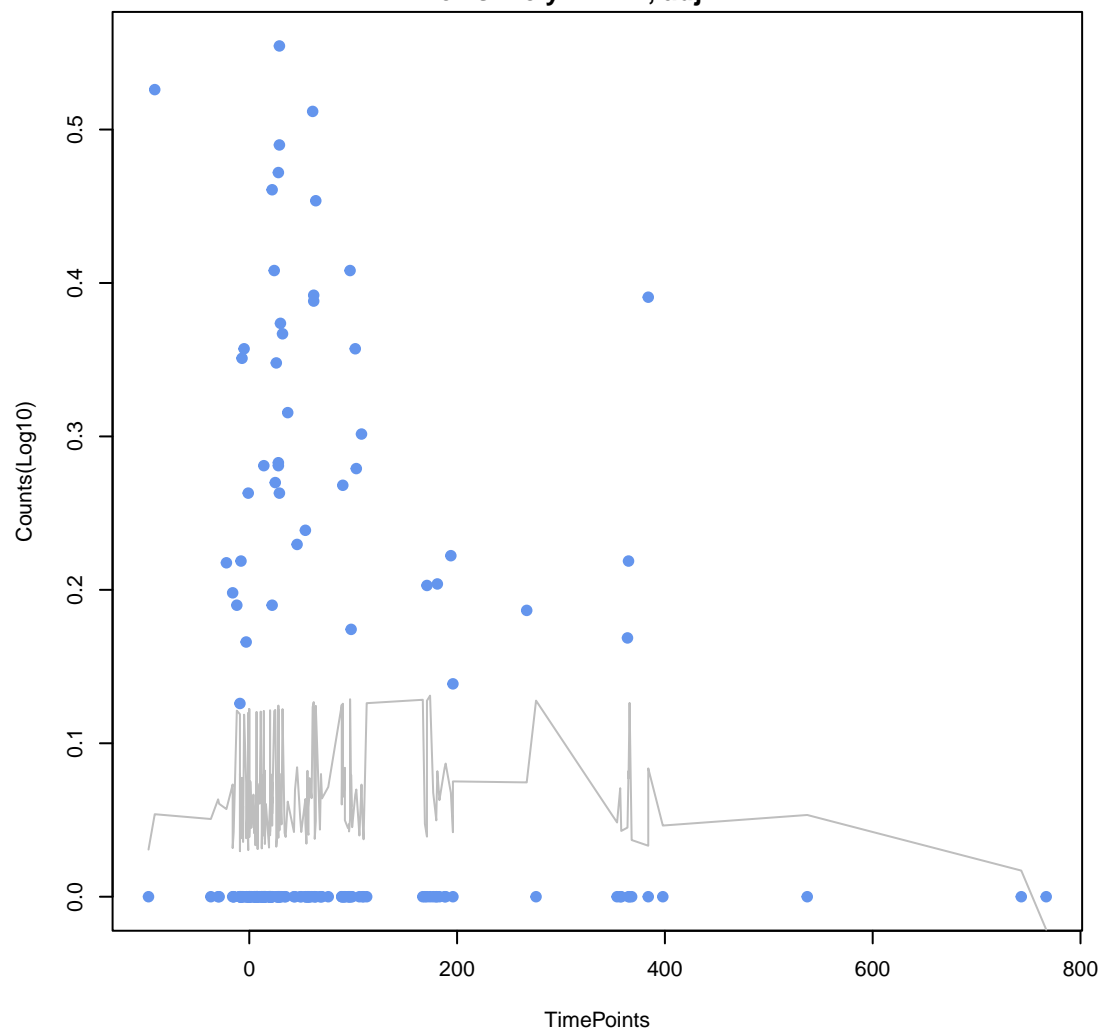
**AcrE**  
ANOVA P=0.782, adj. ANOVA-P=0.986  
Line vs. Poly F-P=1, adj. F-P=1



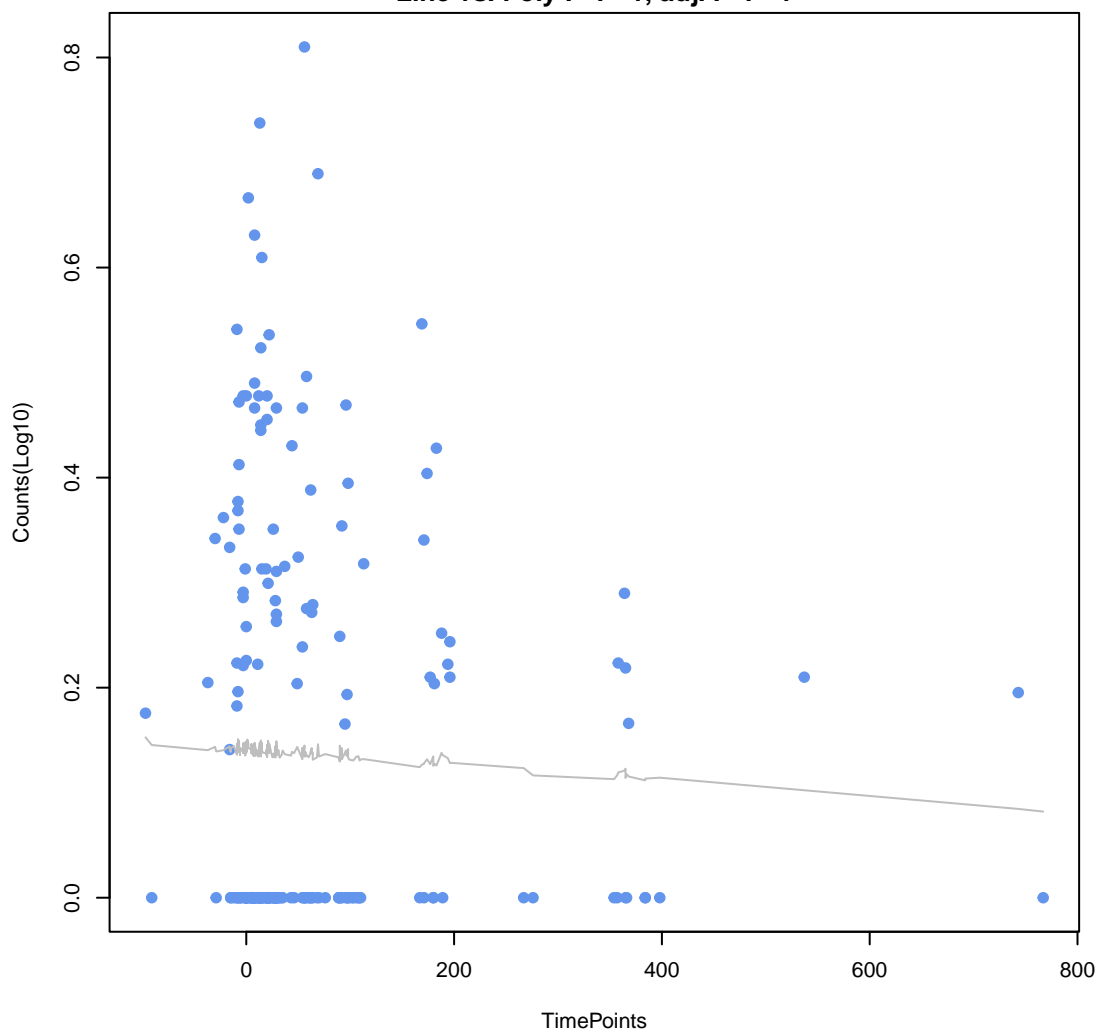
**mdtA**  
ANOVA P=0.785, adj. ANOVA-P=0.986  
Line vs. Poly F-P=1, adj. F-P=1



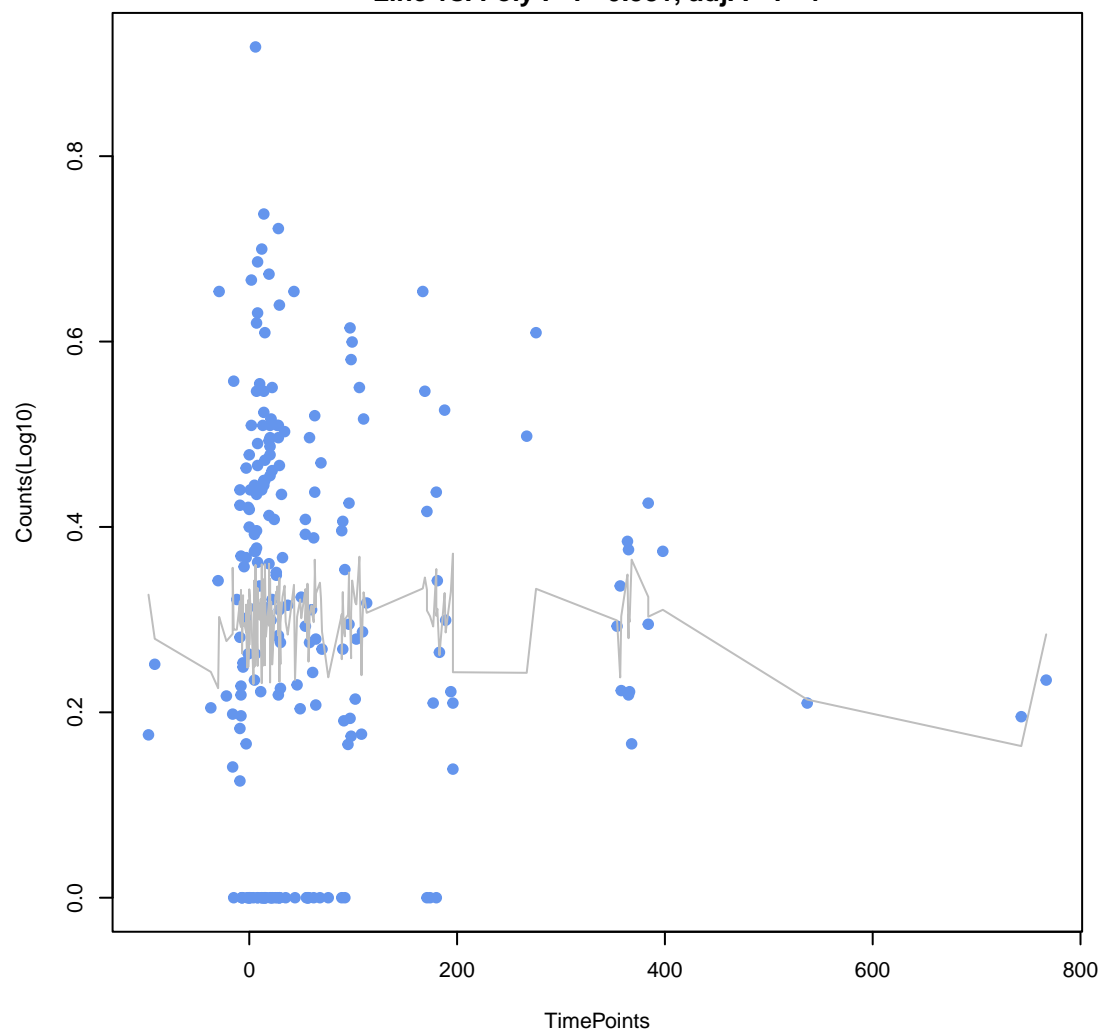
**Escherichia coli UhpT with mutation conferring resistance to fosfomycin**  
ANOVA P=0.792, adj. ANOVA-P=0.986  
Line vs. Poly F-P=1, adj. F-P=1



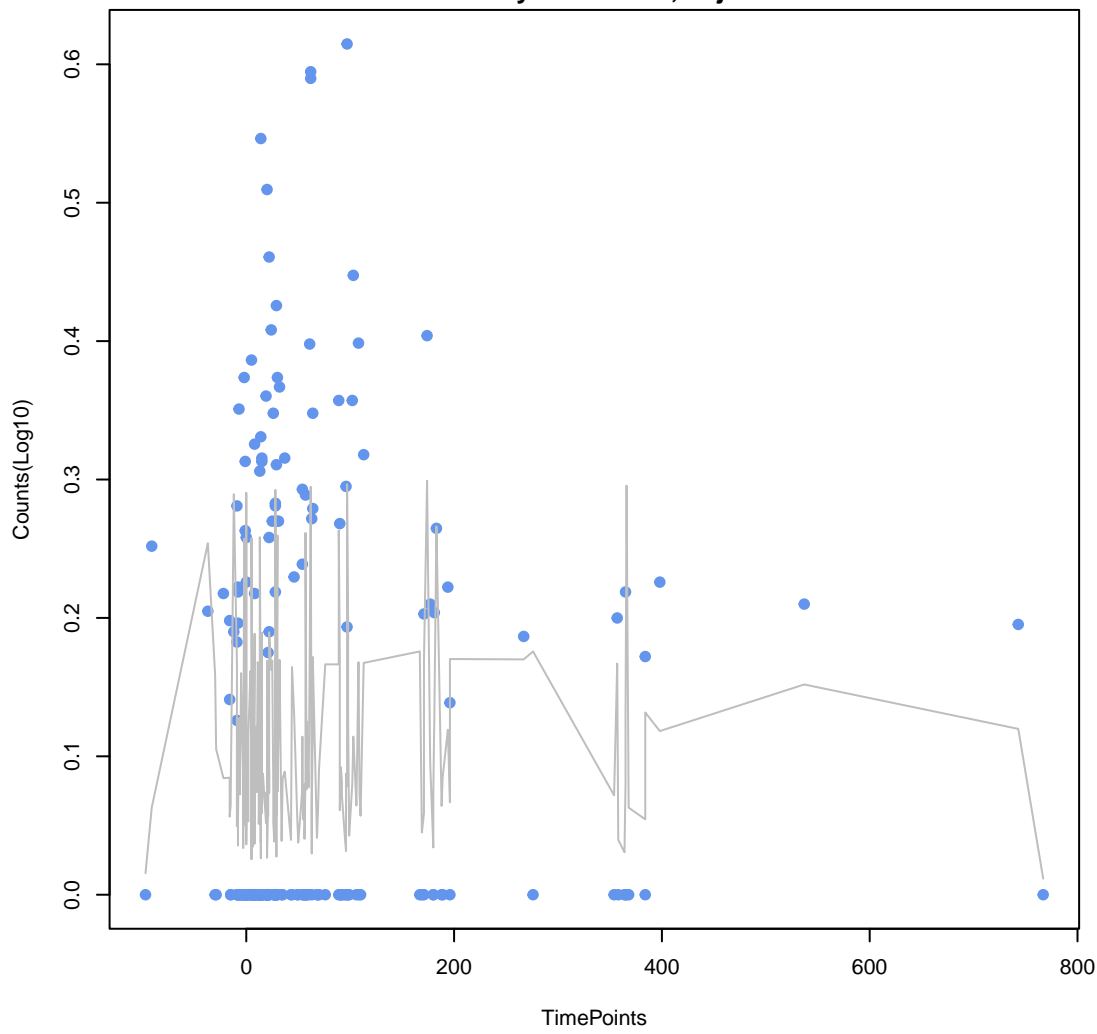
**Bifidobacterium bifidum ileS conferring resistance to mupirocin**  
ANOVA P=0.813, adj. ANOVA-P=0.99  
Line vs. Poly F-P=1, adj. F-P=1



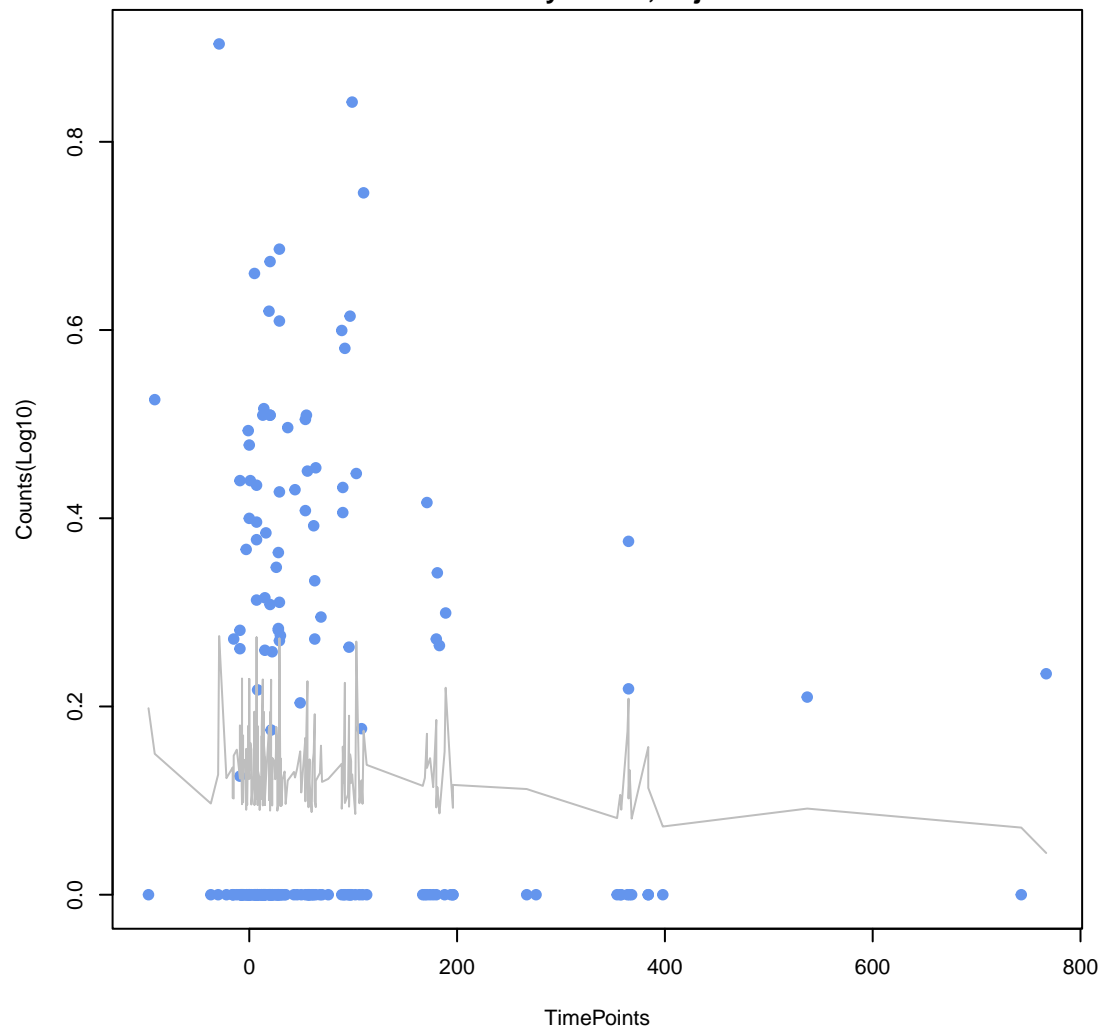
**aad(6)**  
ANOVA P=0.827, adj. ANOVA-P=0.99  
Line vs. Poly F-P=0.581, adj. F-P=1



**rsmA**  
ANOVA P=0.848, adj. ANOVA-P=0.99  
Line vs. Poly F-P=0.756, adj. F-P=1

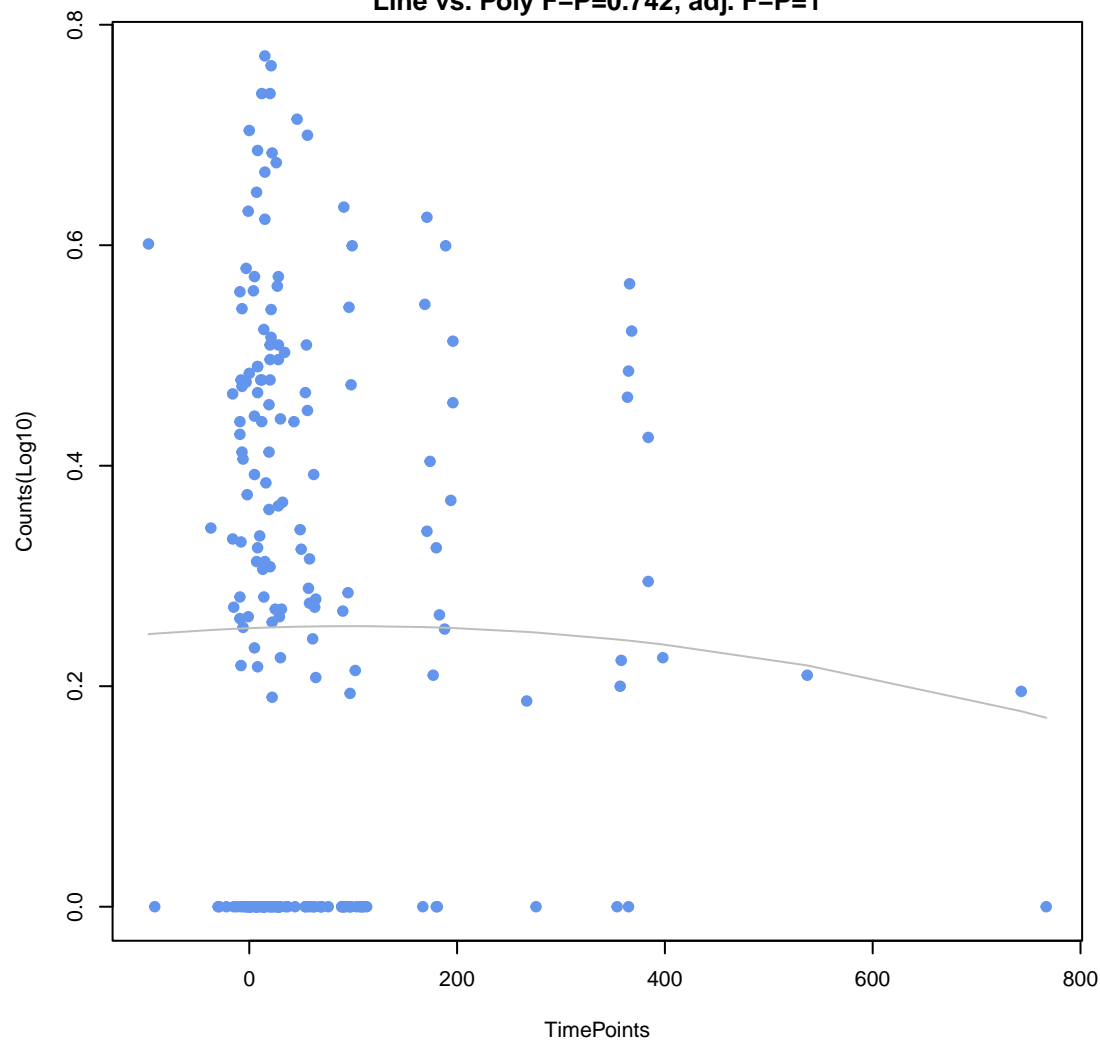


**tetB(60)**  
ANOVA P=0.872, adj. ANOVA-P=0.99  
Line vs. Poly F-P=1, adj. F-P=1



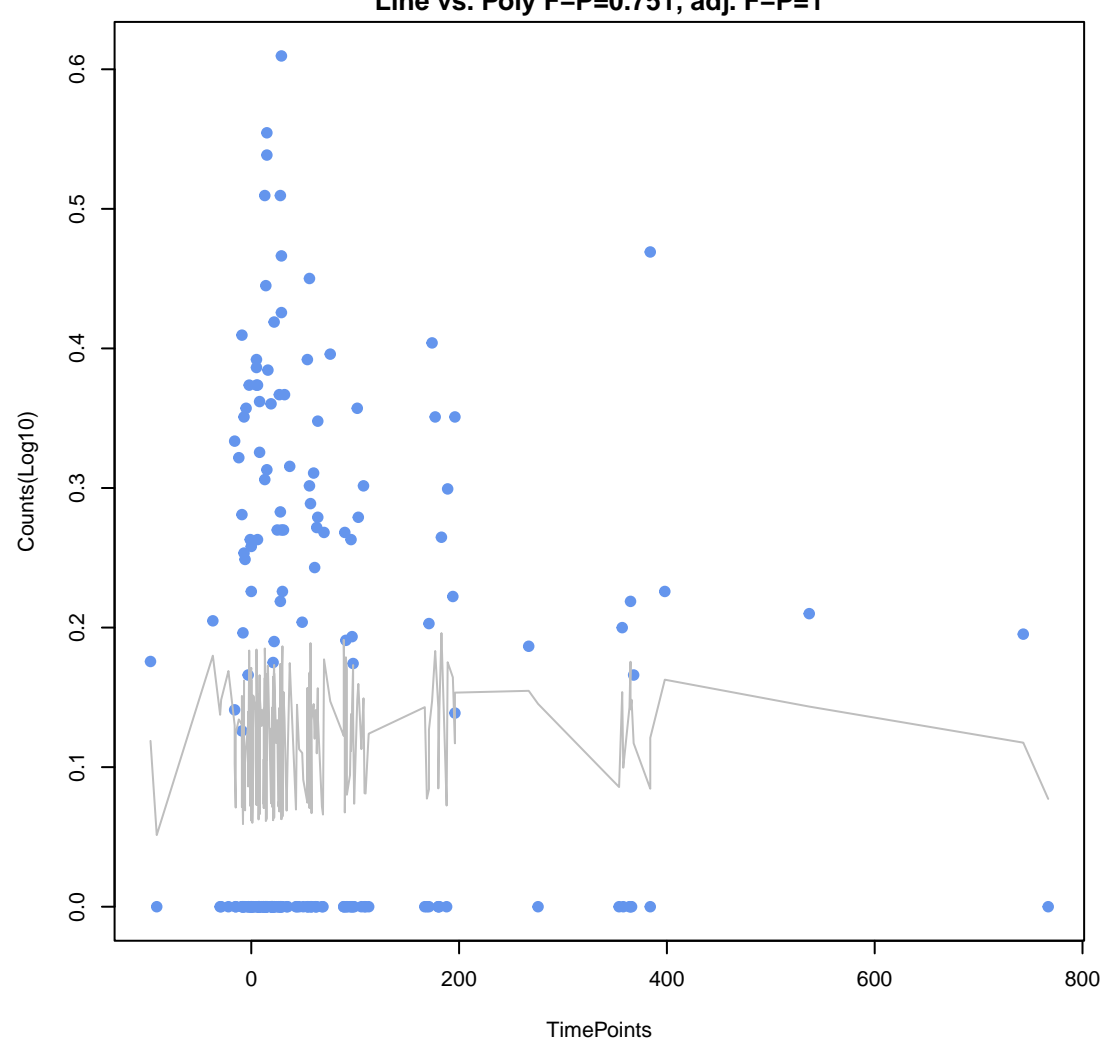
evgS

ANOVA P=0.878, adj. ANOVA-P=0.99  
Line vs. Poly F-P=0.742, adj. F-P=1



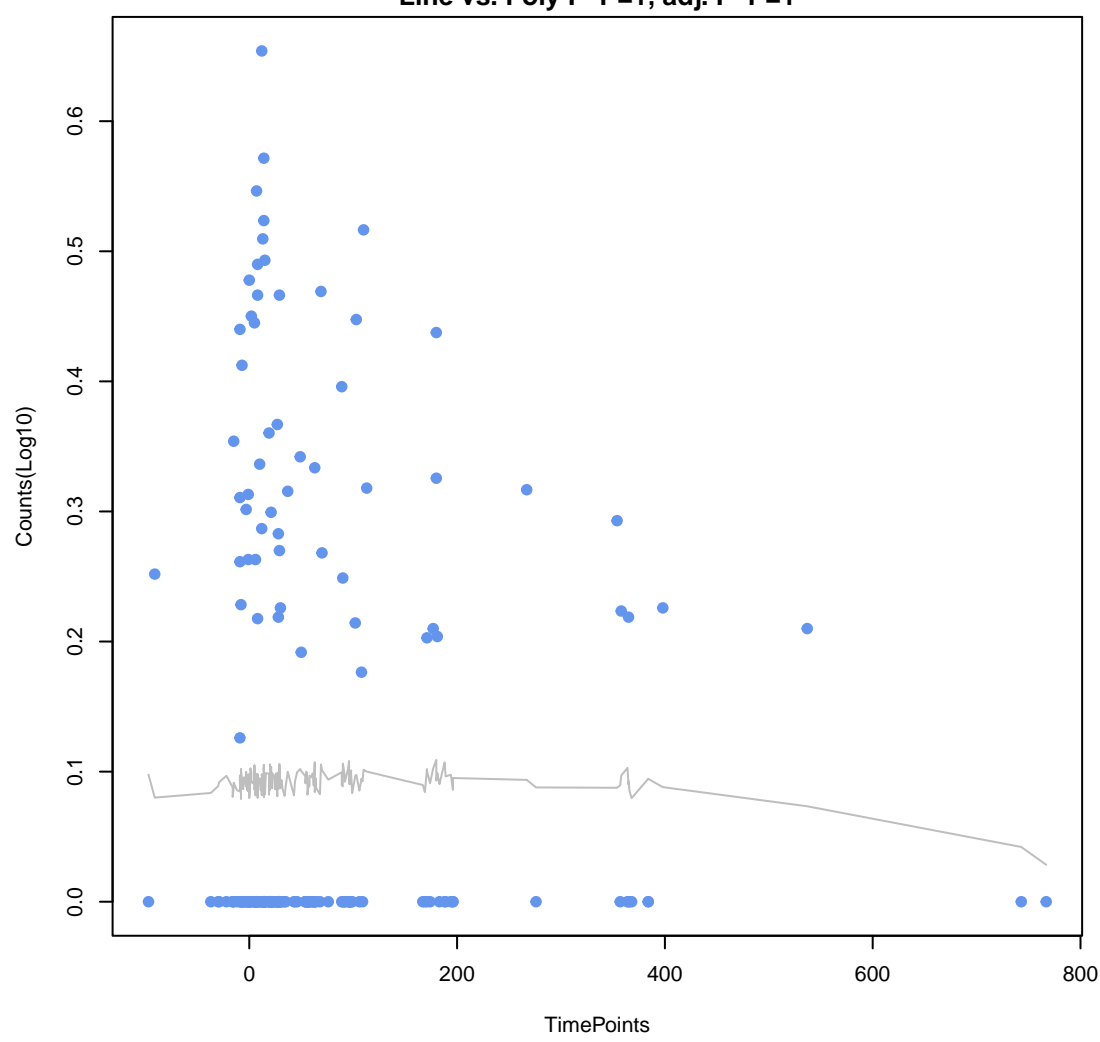
kdpE

ANOVA P=0.885, adj. ANOVA-P=0.99  
Line vs. Poly F-P=0.751, adj. F-P=1



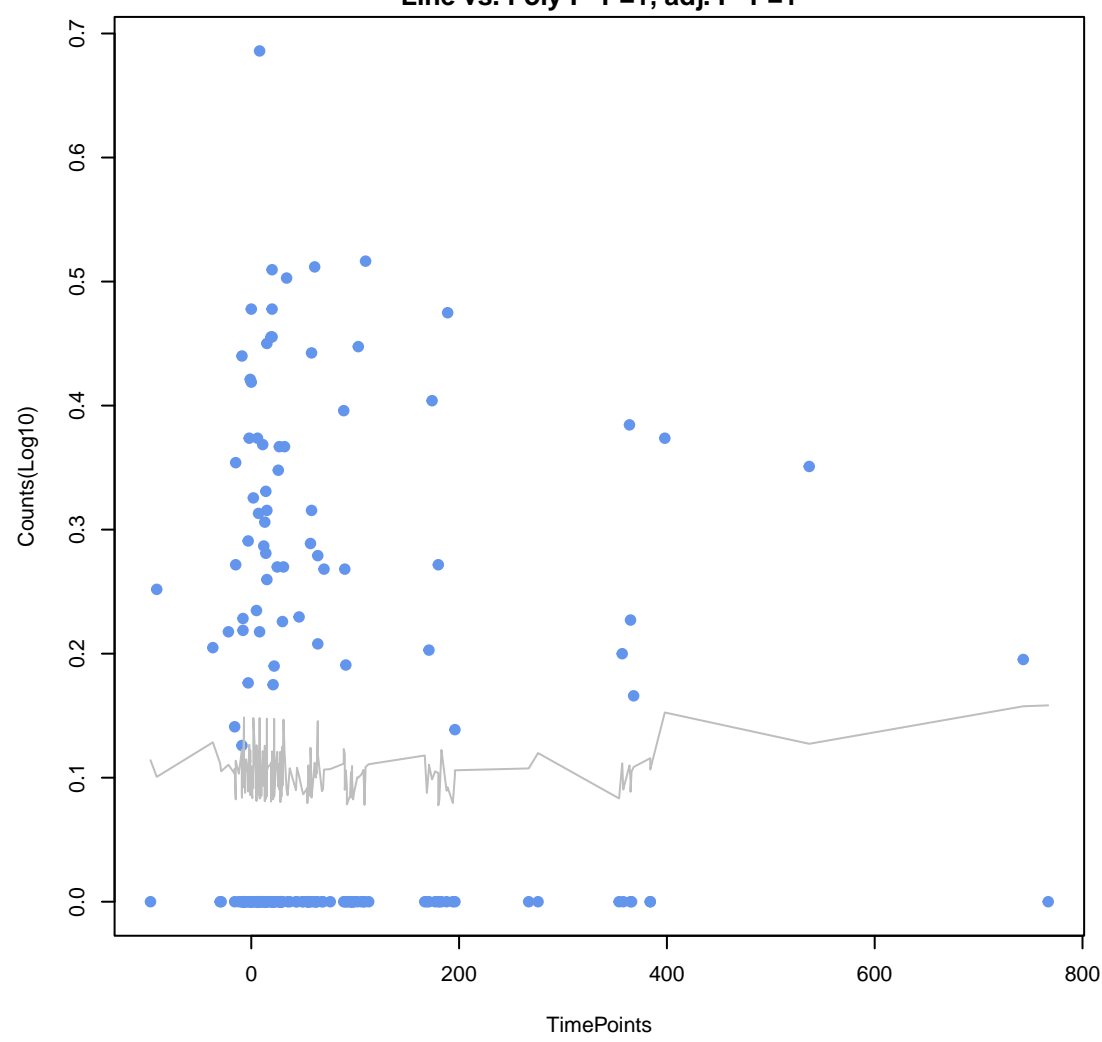
oleB

ANOVA P=0.887, adj. ANOVA-P=0.99  
Line vs. Poly F-P=1, adj. F-P=1



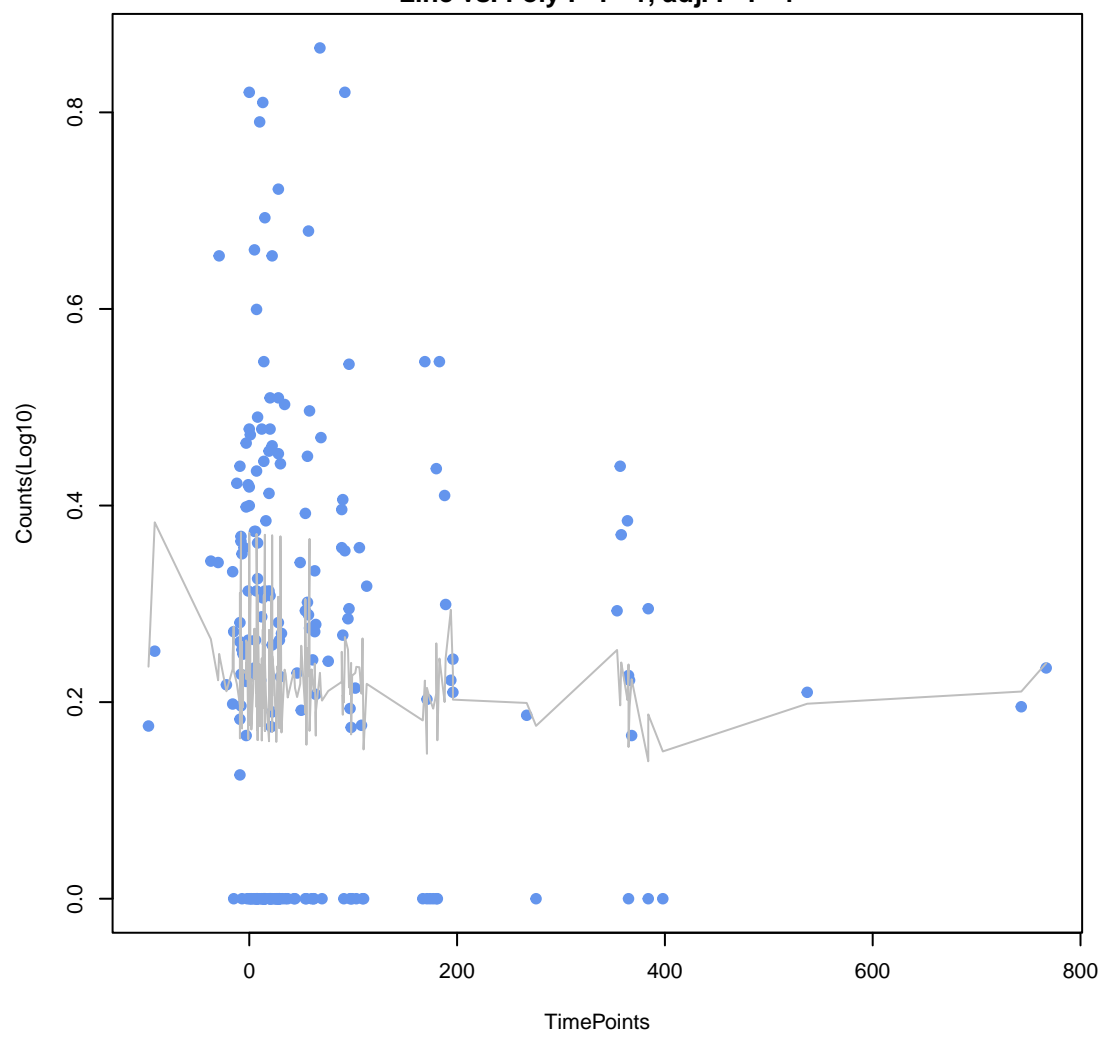
APH(3'')-lb

ANOVA P=0.891, adj. ANOVA-P=0.99  
Line vs. Poly F-P=1, adj. F-P=1



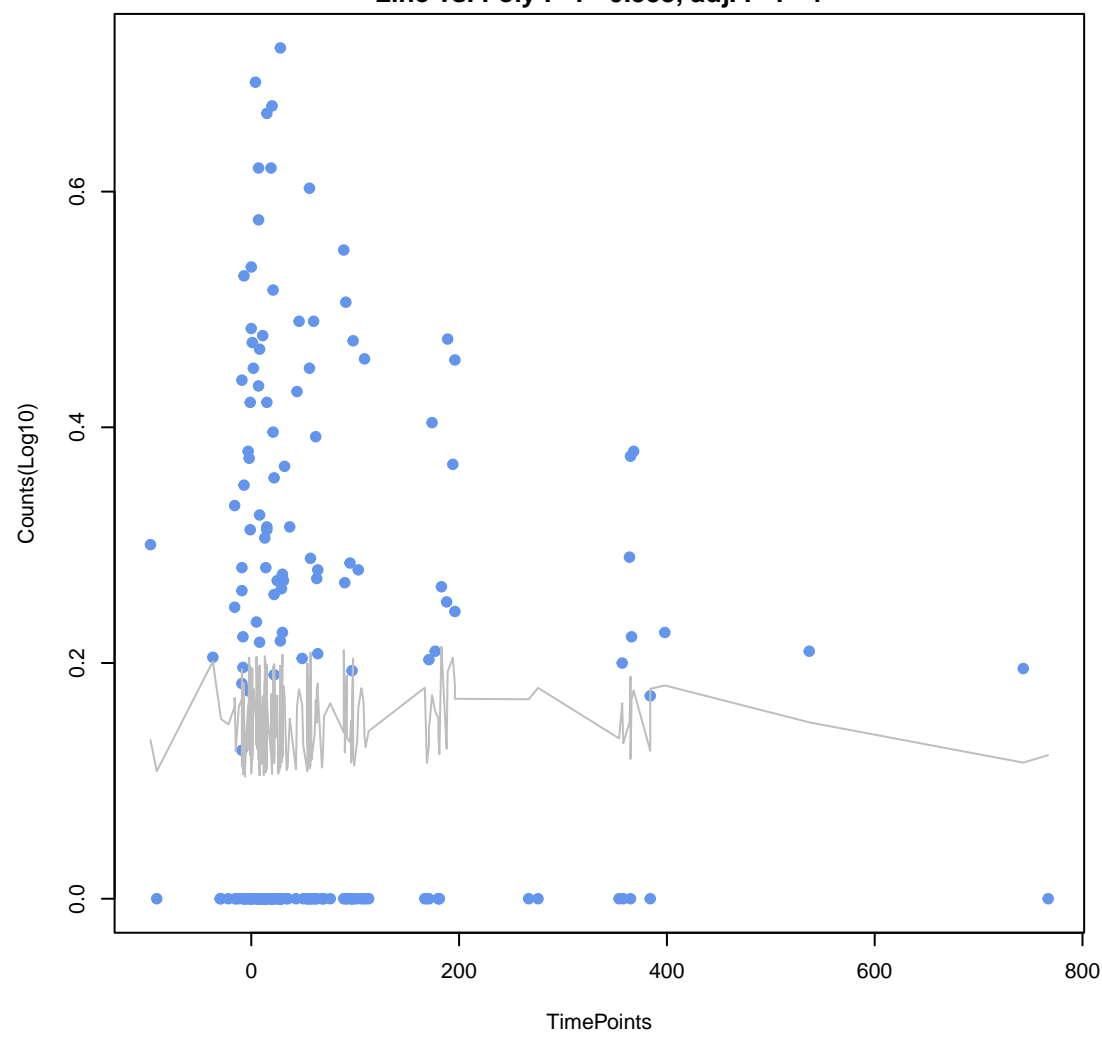
InuC

ANOVA P=0.901, adj. ANOVA-P=0.99  
Line vs. Poly F-P=1, adj. F-P=1



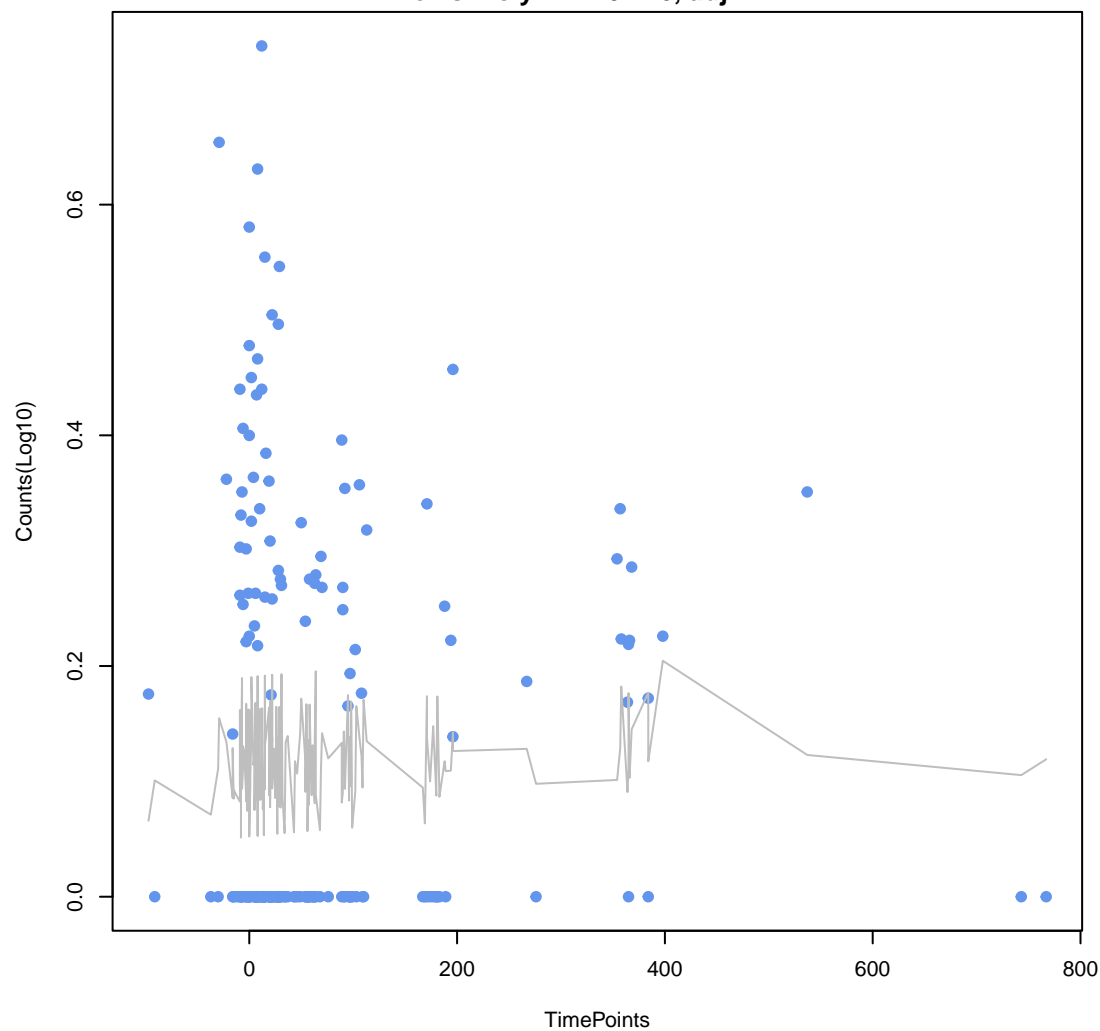
mdtP

ANOVA P=0.909, adj. ANOVA-P=0.99  
Line vs. Poly F-P=0.553, adj. F-P=1

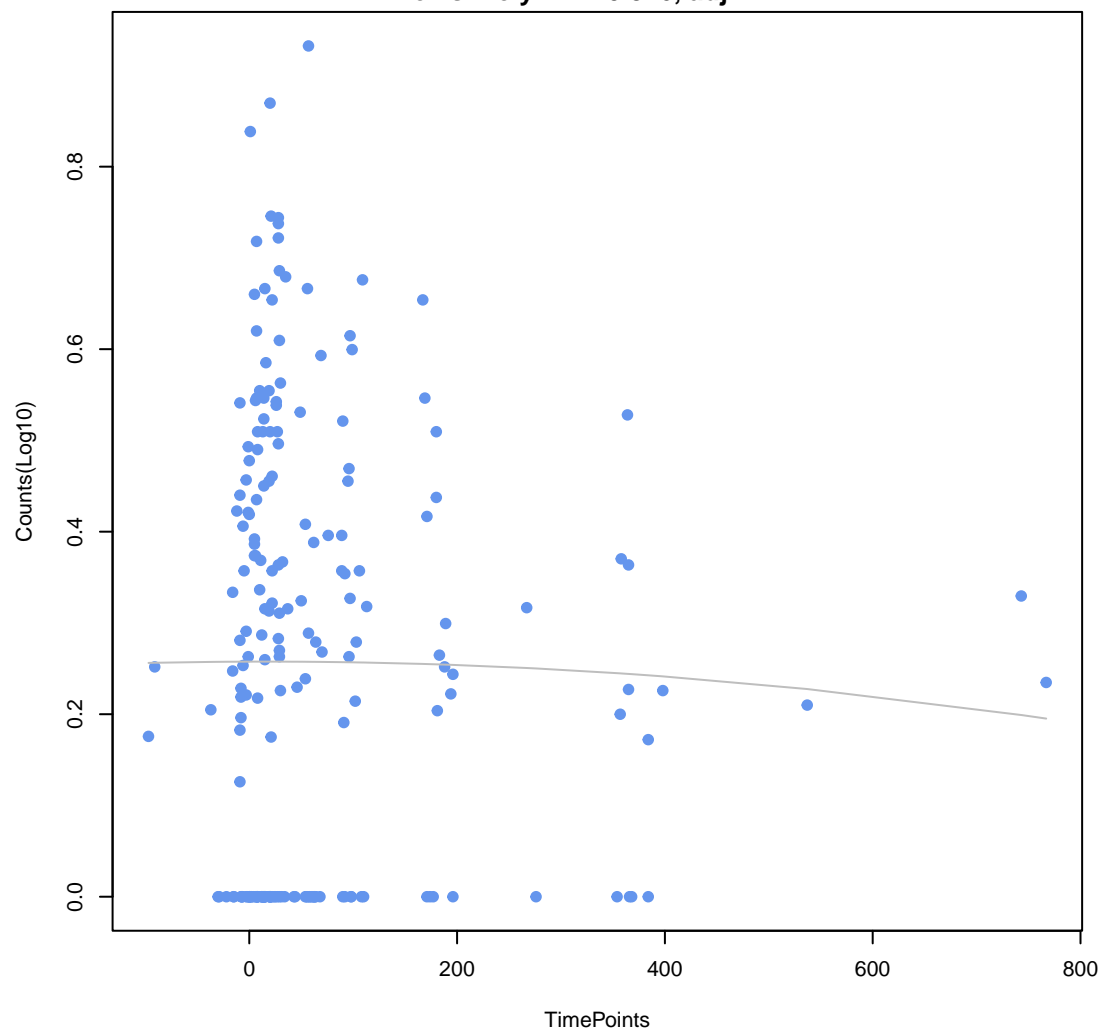




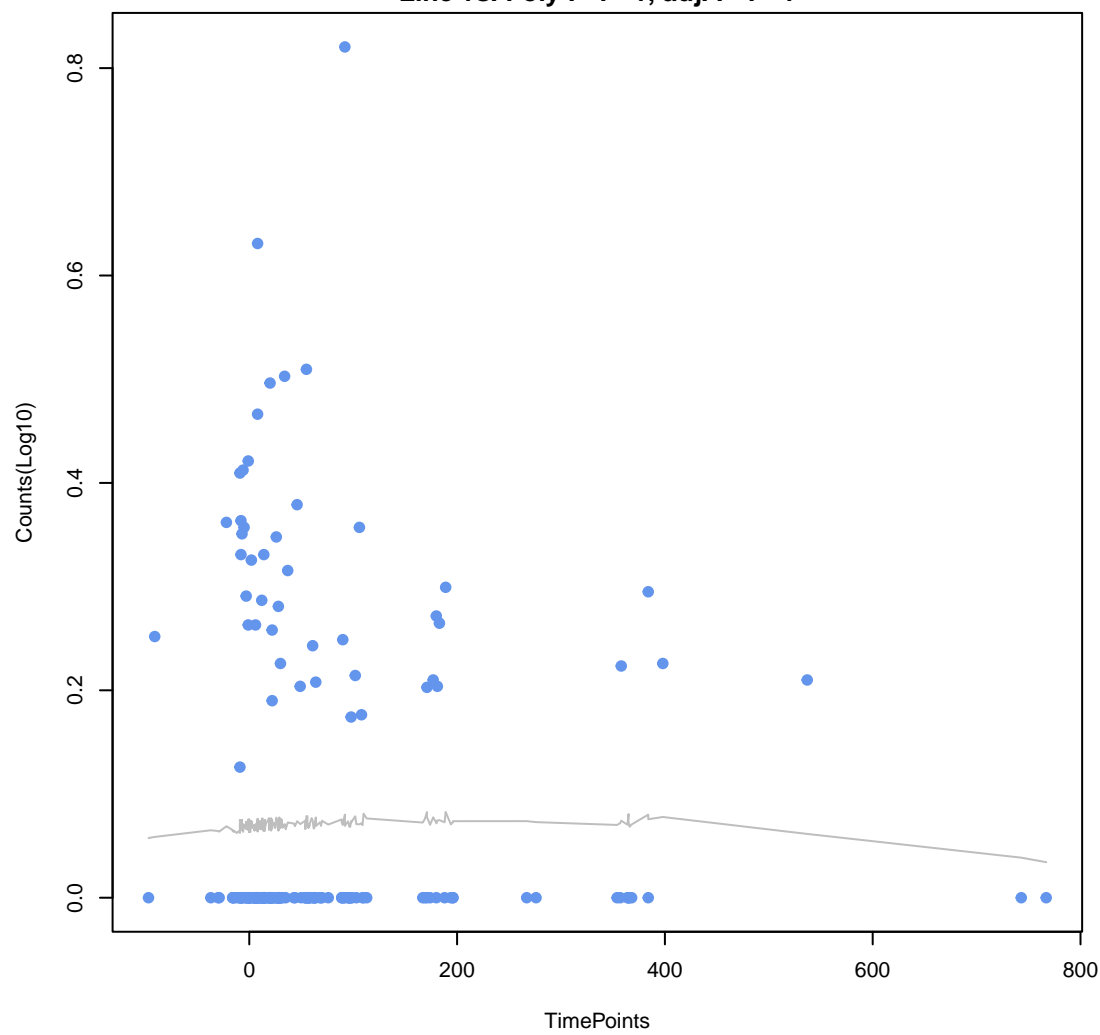
**vanS gene in vanD cluster**  
ANOVA P=0.915, adj. ANOVA-P=0.99  
Line vs. Poly F-P=0.726, adj. F-P=1



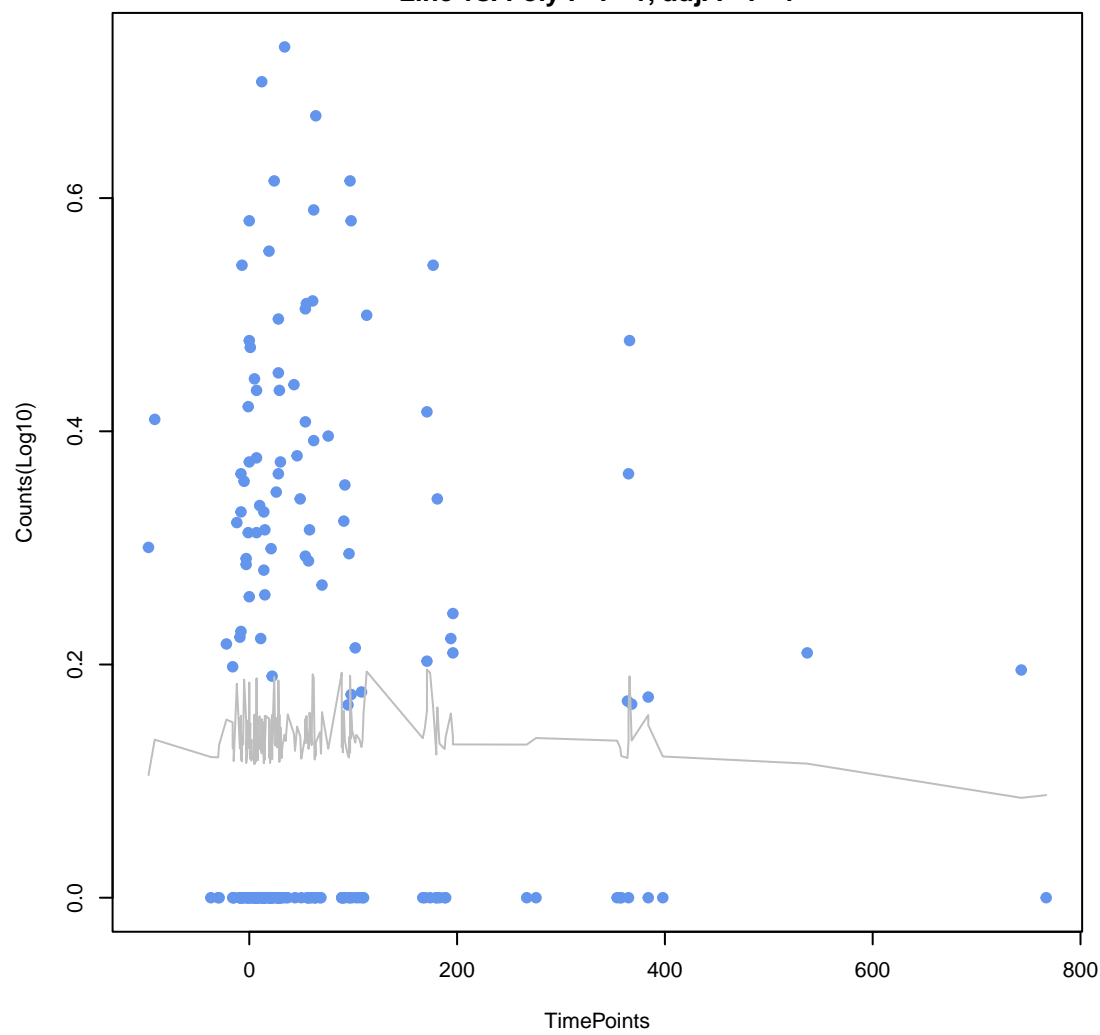
**fexA**  
ANOVA P=0.919, adj. ANOVA-P=0.99  
Line vs. Poly F-P=0.846, adj. F-P=1



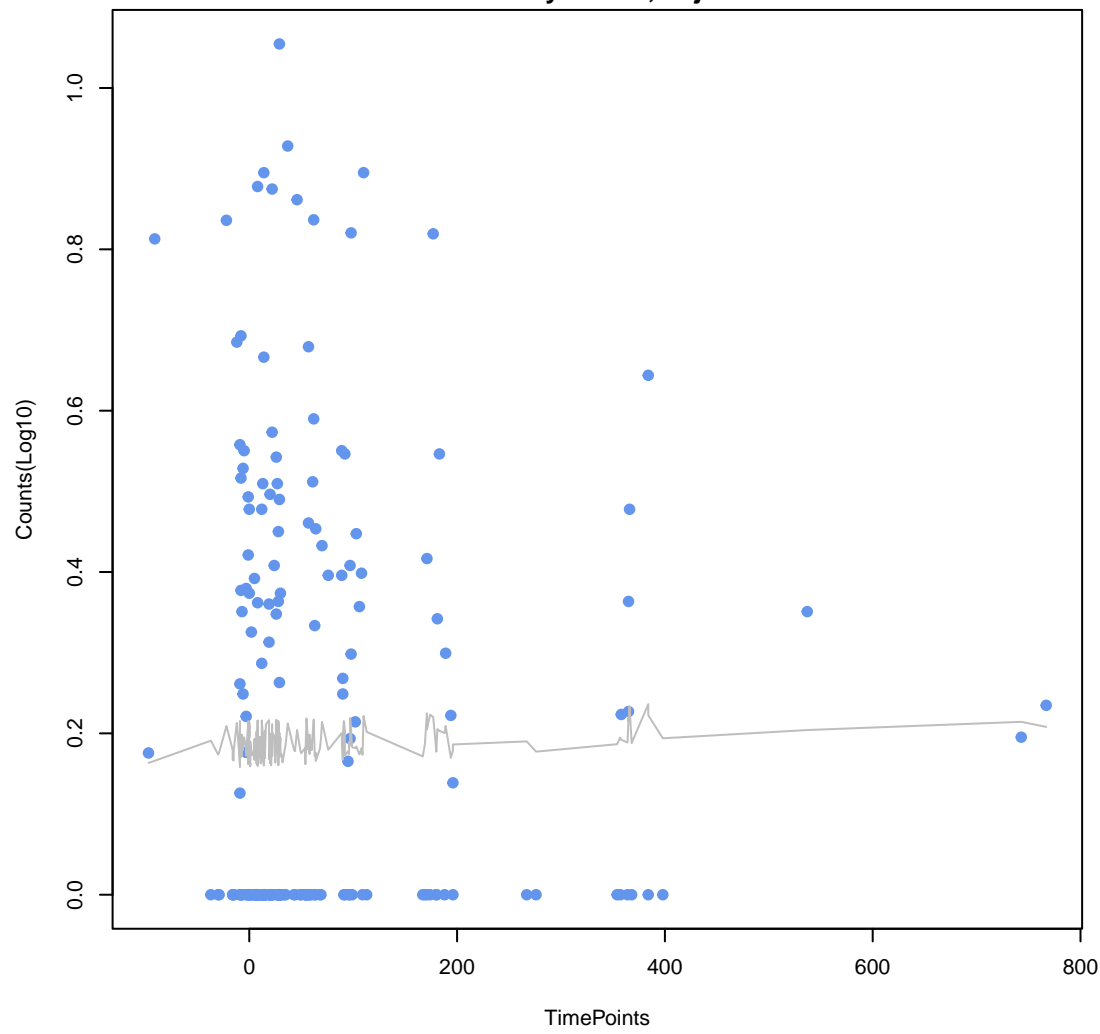
**Klebsiella pneumoniae acrA**  
ANOVA P=0.922, adj. ANOVA-P=0.99  
Line vs. Poly F-P=1, adj. F-P=1



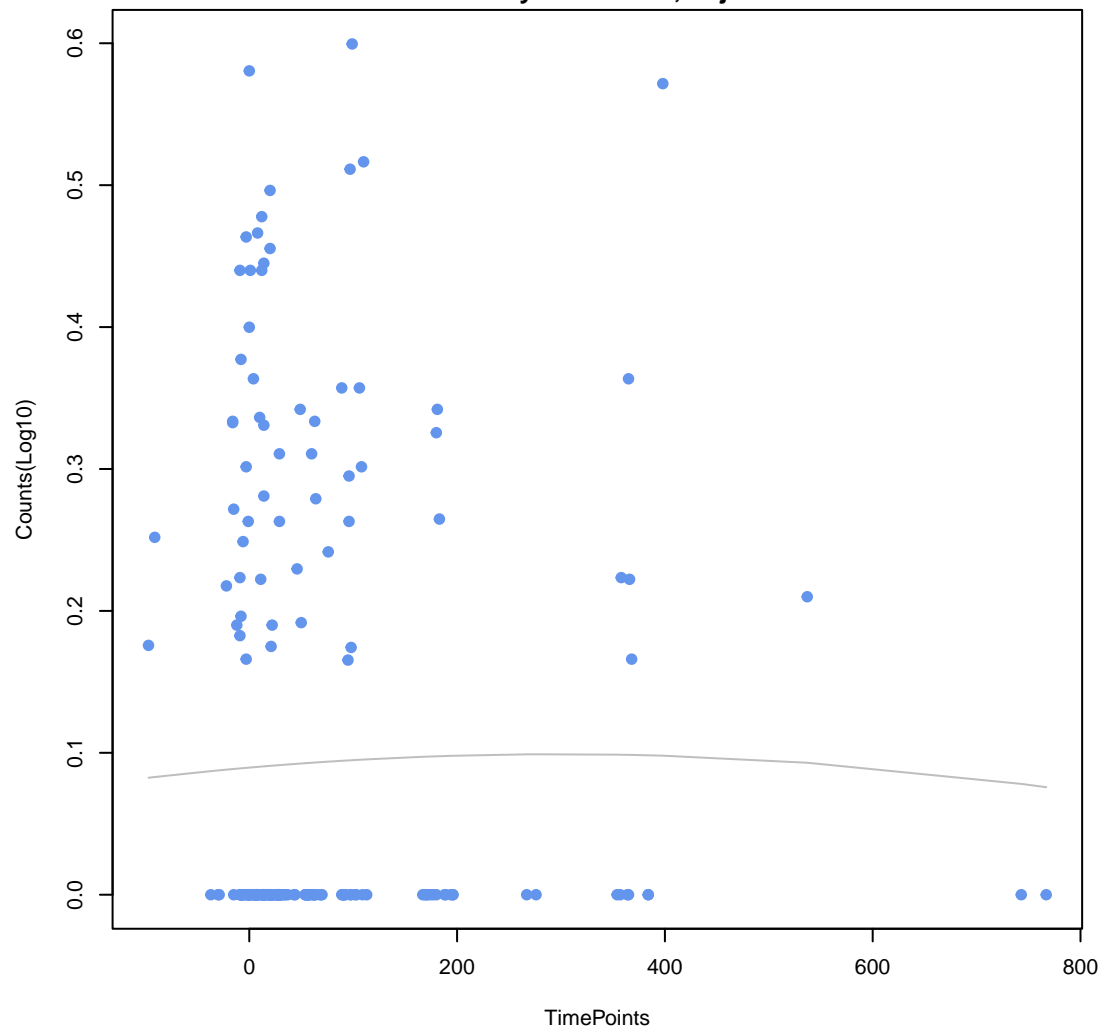
**Klebsiella pneumoniae KpnH**  
ANOVA P=0.931, adj. ANOVA-P=0.99  
Line vs. Poly F-P=1, adj. F-P=1



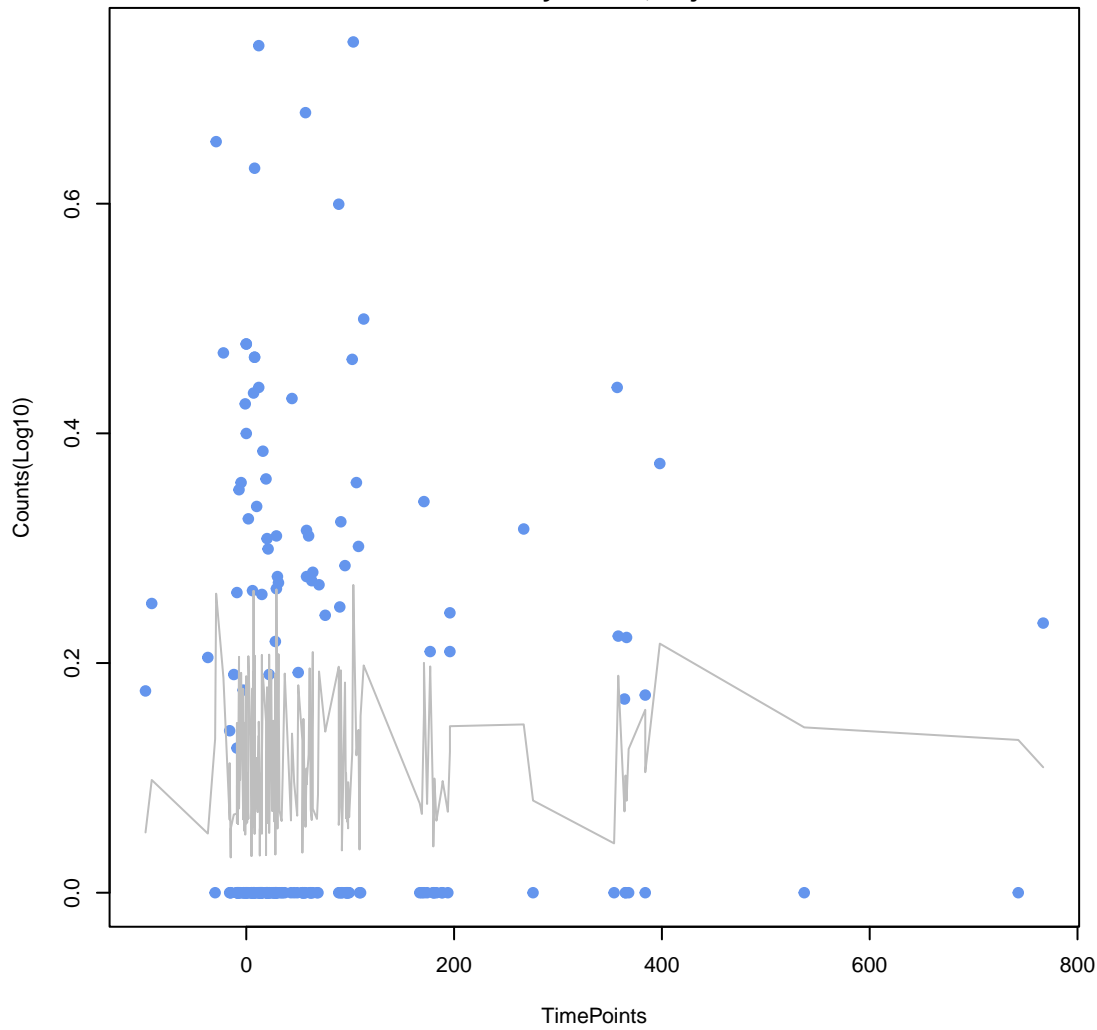
**oqxB**  
ANOVA P=0.941, adj. ANOVA-P=0.99  
Line vs. Poly F-P=1, adj. F-P=1



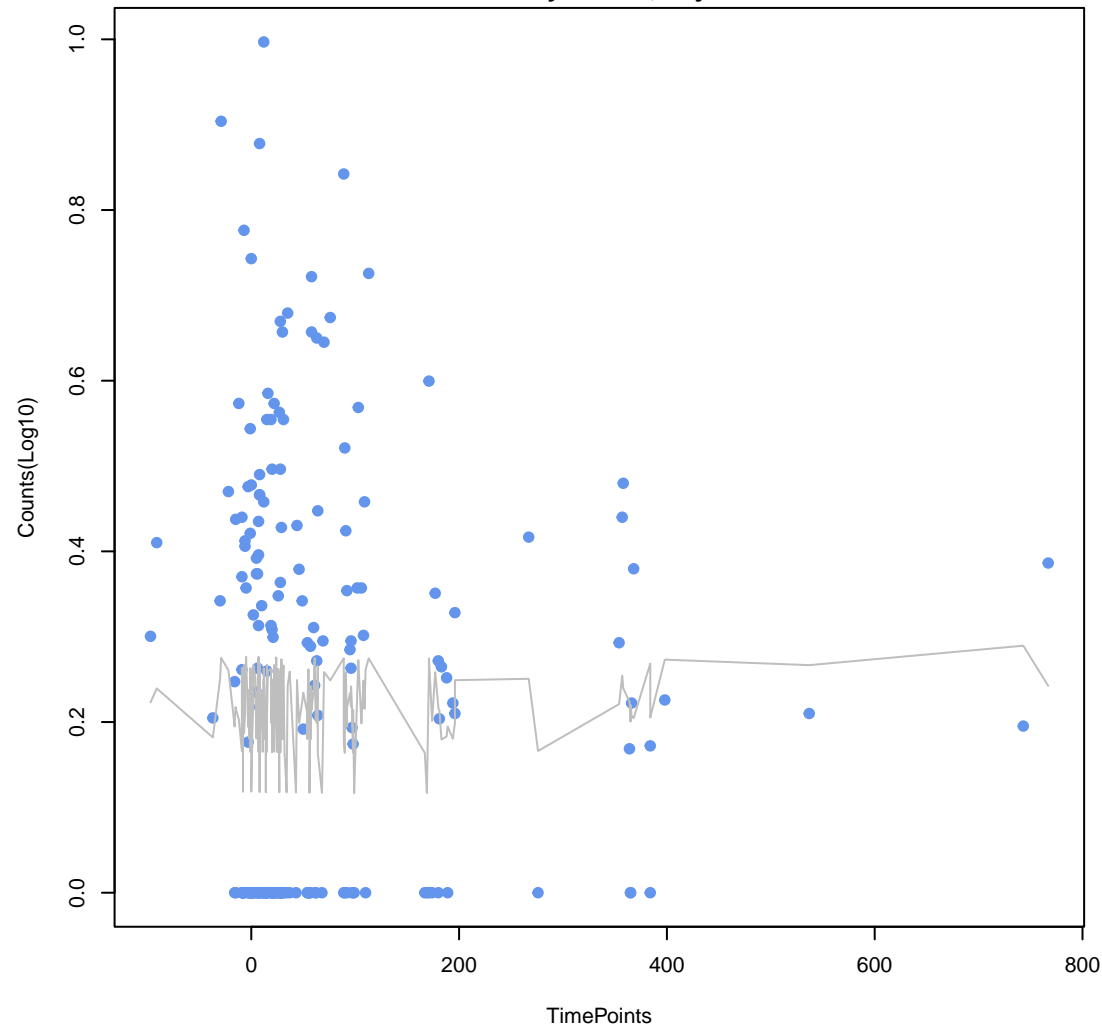
**TaeA**  
ANOVA P=0.953, adj. ANOVA-P=0.99  
Line vs. Poly F-P=0.777, adj. F-P=1



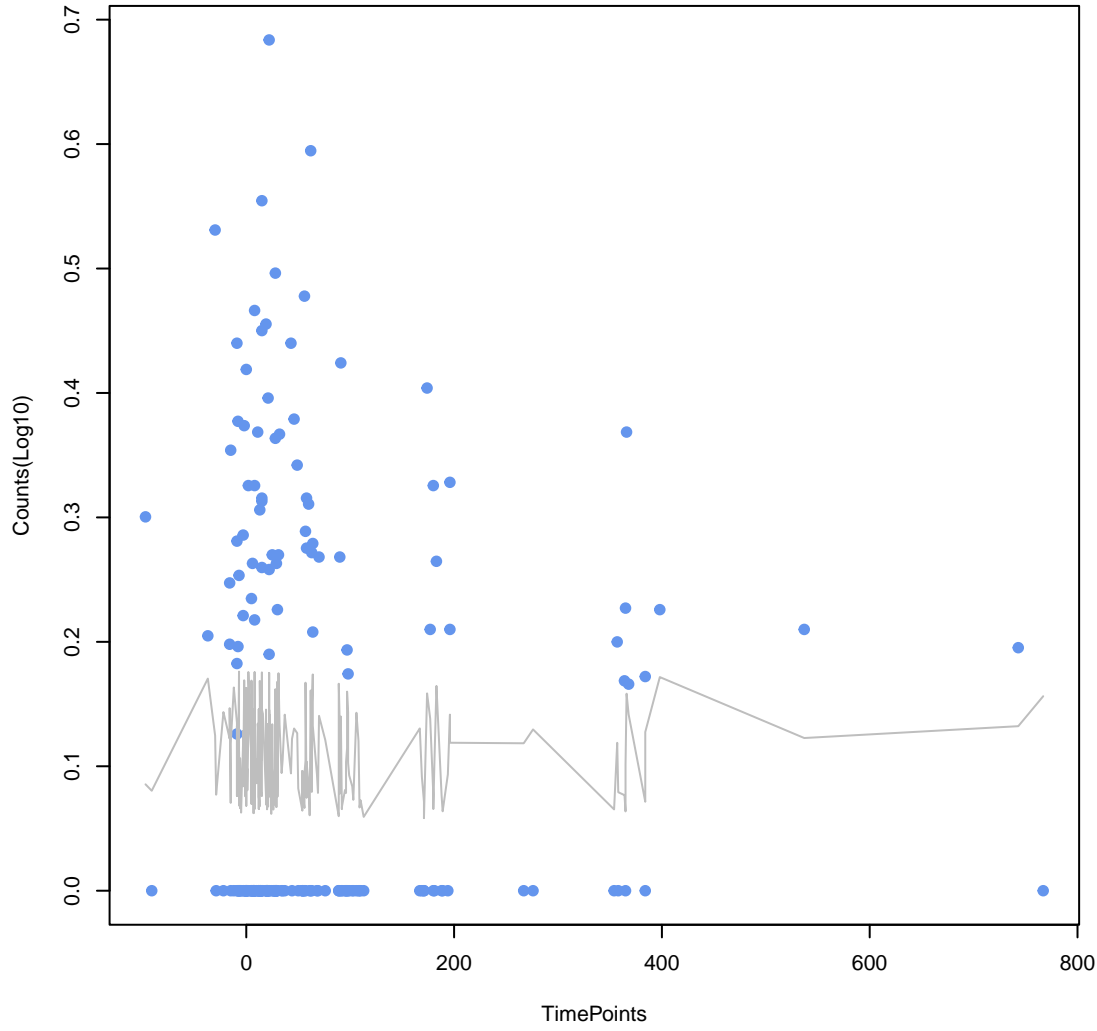
**vanX gene in vanD cluster**  
ANOVA P=0.954, adj. ANOVA-P=0.99  
Line vs. Poly F-P=1, adj. F-P=1



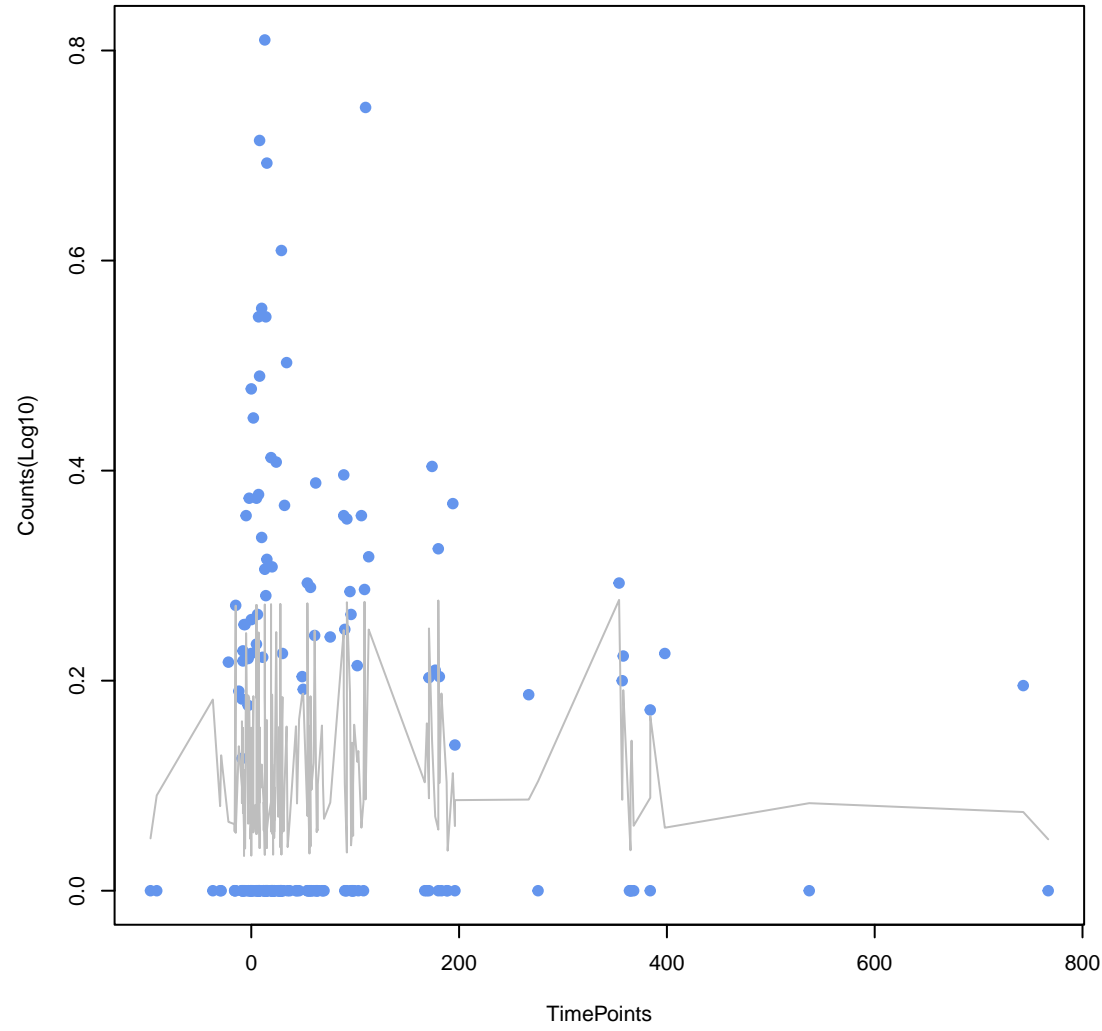
**vanR gene in vanD cluster**  
ANOVA P=0.966, adj. ANOVA-P=0.99  
Line vs. Poly F-P=1, adj. F-P=1



**emrK**  
ANOVA P=0.984, adj. ANOVA-P=0.99  
Line vs. Poly F-P=1, adj. F-P=1



**CfxA3**  
ANOVA P=0.986, adj. ANOVA-P=0.99  
Line vs. Poly F-P=1, adj. F-P=1



**MuxC**  
ANOVA P=0.99, adj. ANOVA-P=0.99  
Line vs. Poly F-P=1, adj. F-P=1

