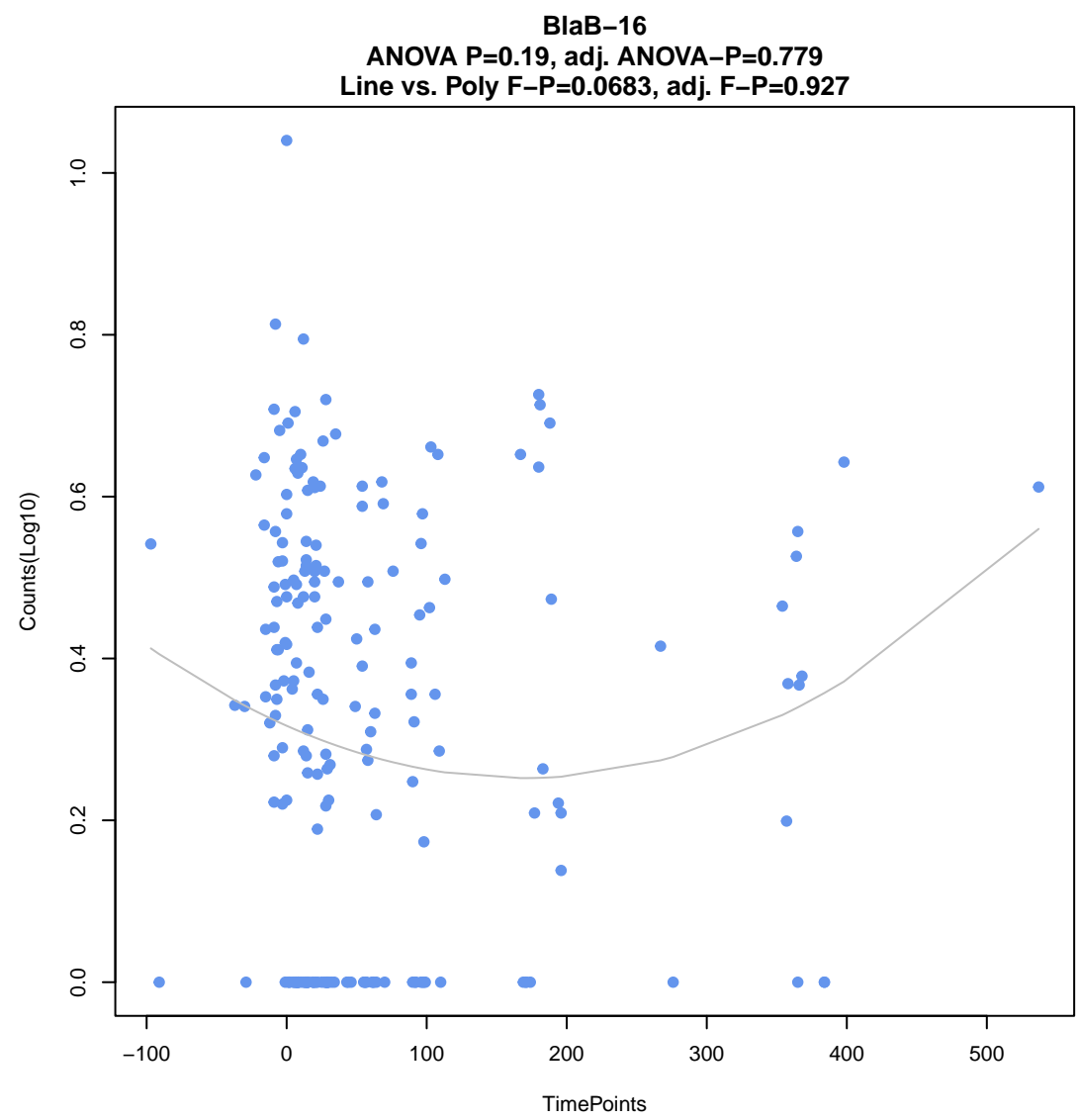
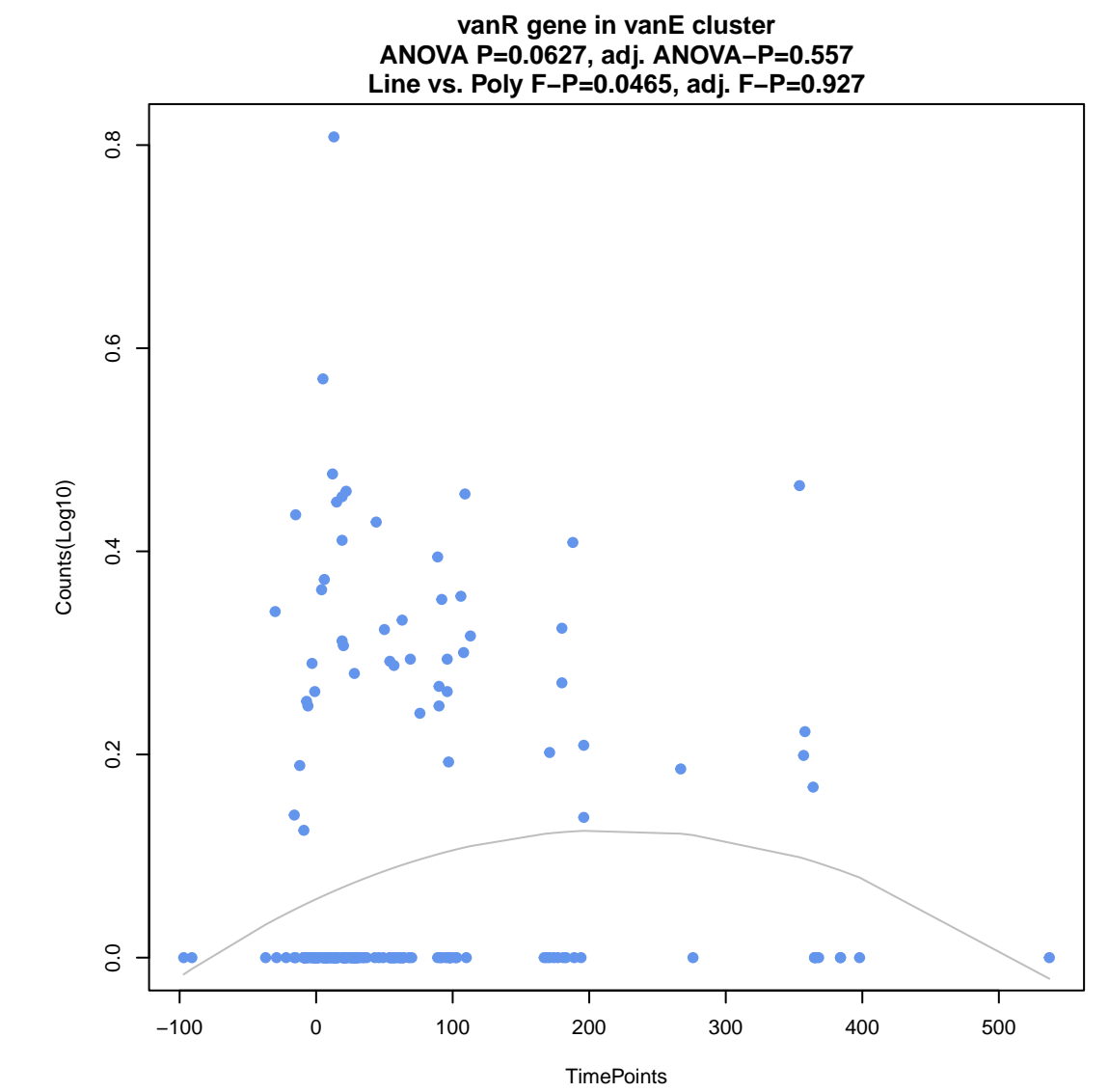
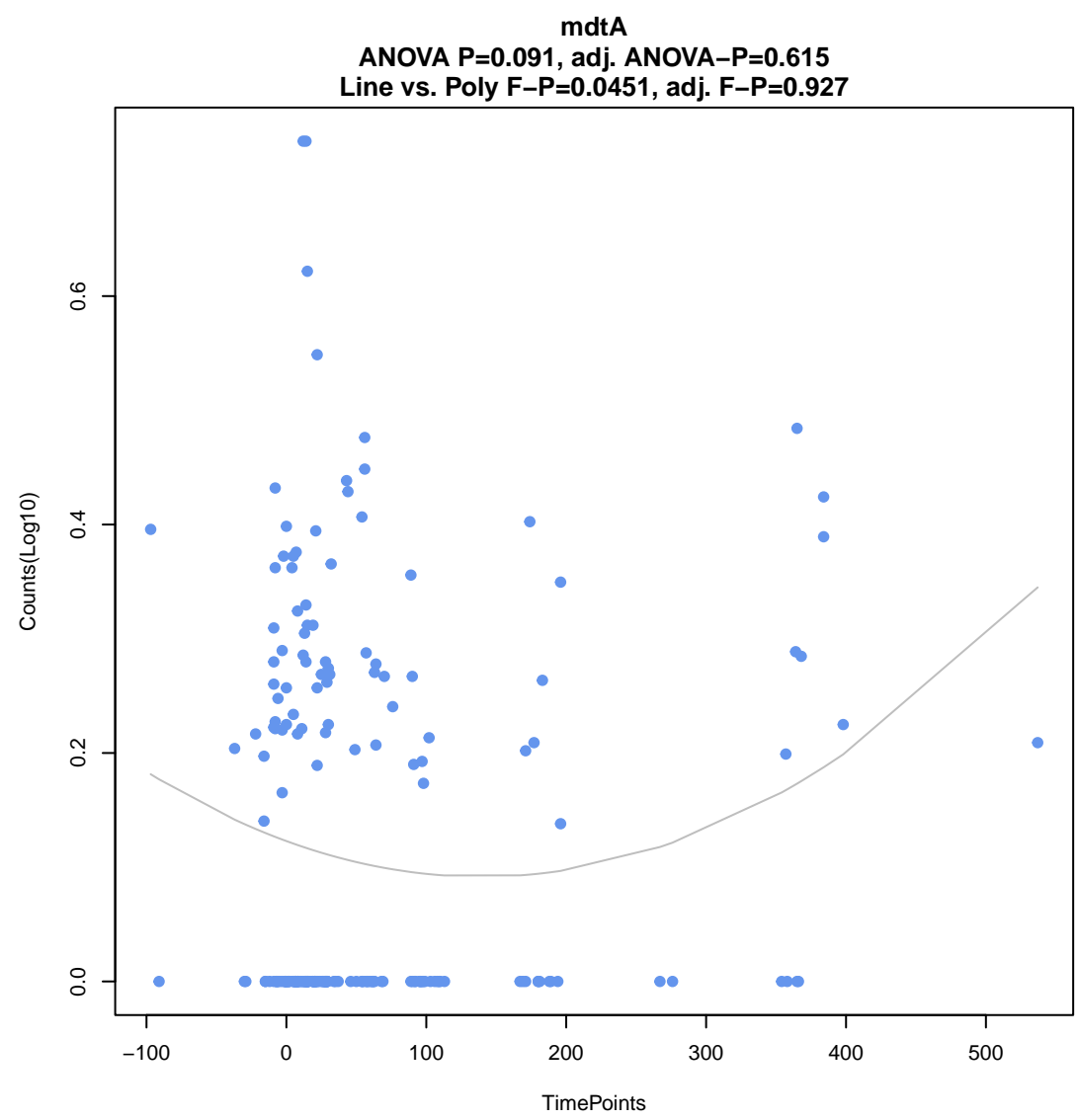
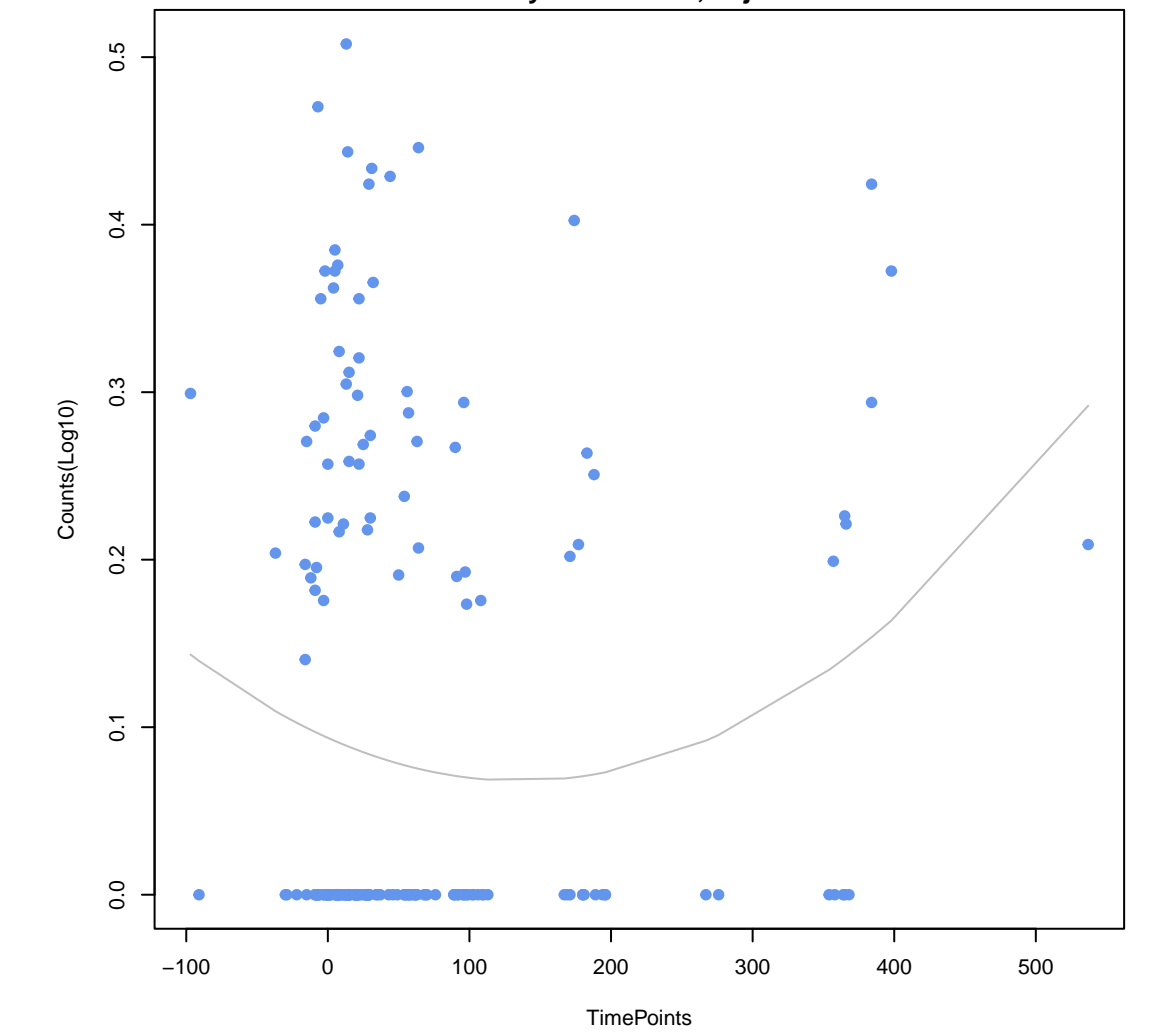
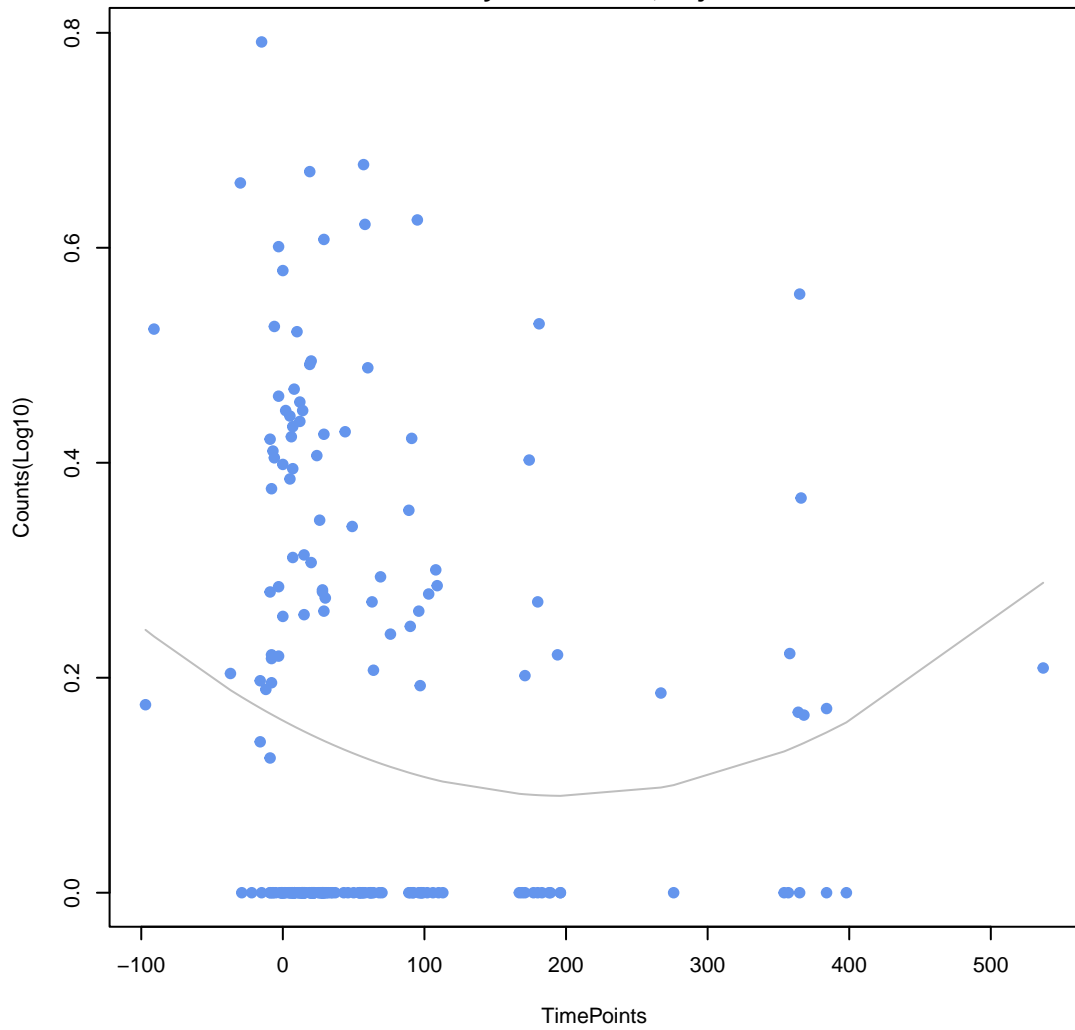


**Shigella flexneri AcrAB-TolC with AcrR mutation conferring resistance to ciprofloxacin, tetracycline**  
ANOVA  $P=0.0765$ , adj. ANOVA- $P=0.59$   
Line vs. Poly F- $P=0.0419$ , adj. F- $P=0.927$



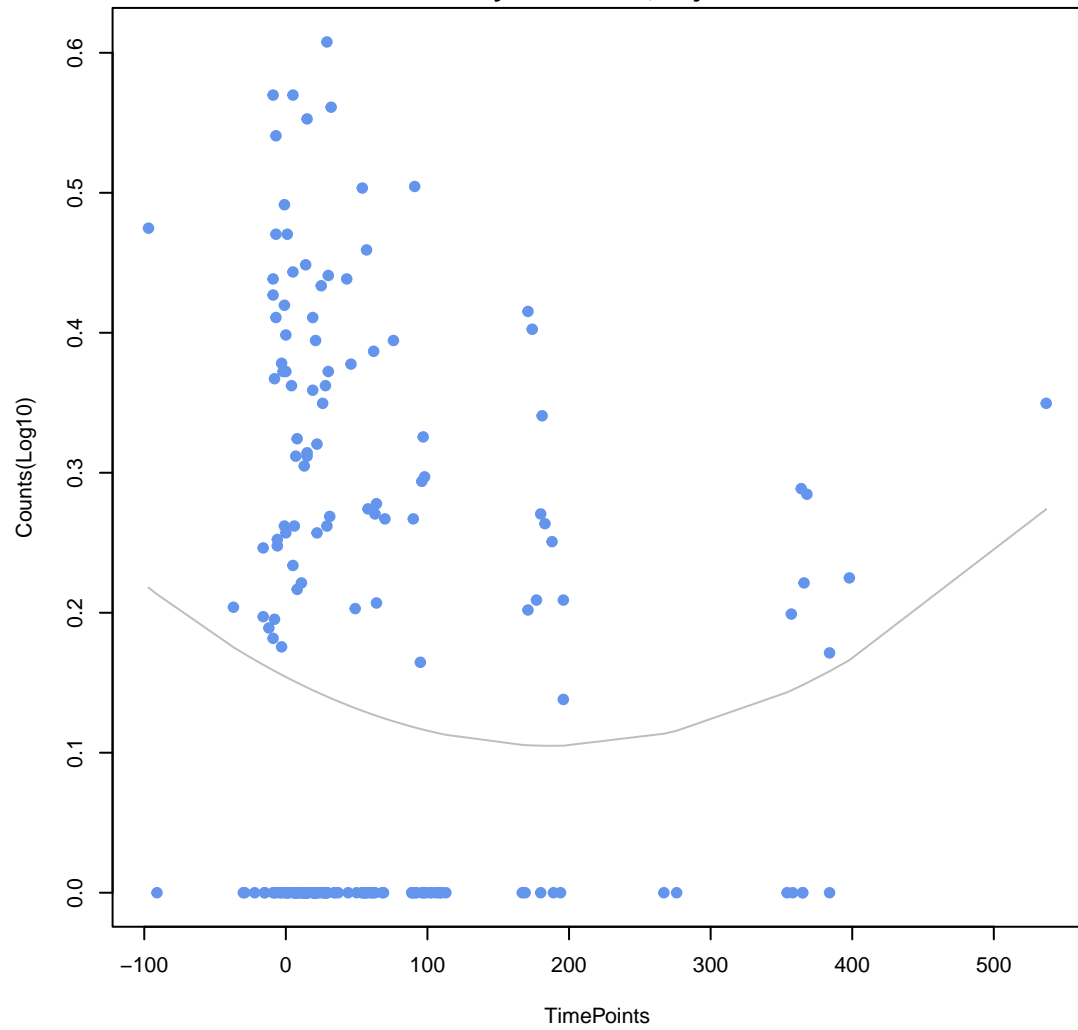
**PDC-402**

ANOVA  $P=0.154$ , adj. ANOVA- $P=0.724$   
Line vs. Poly F- $P=0.0717$ , adj. F- $P=0.927$



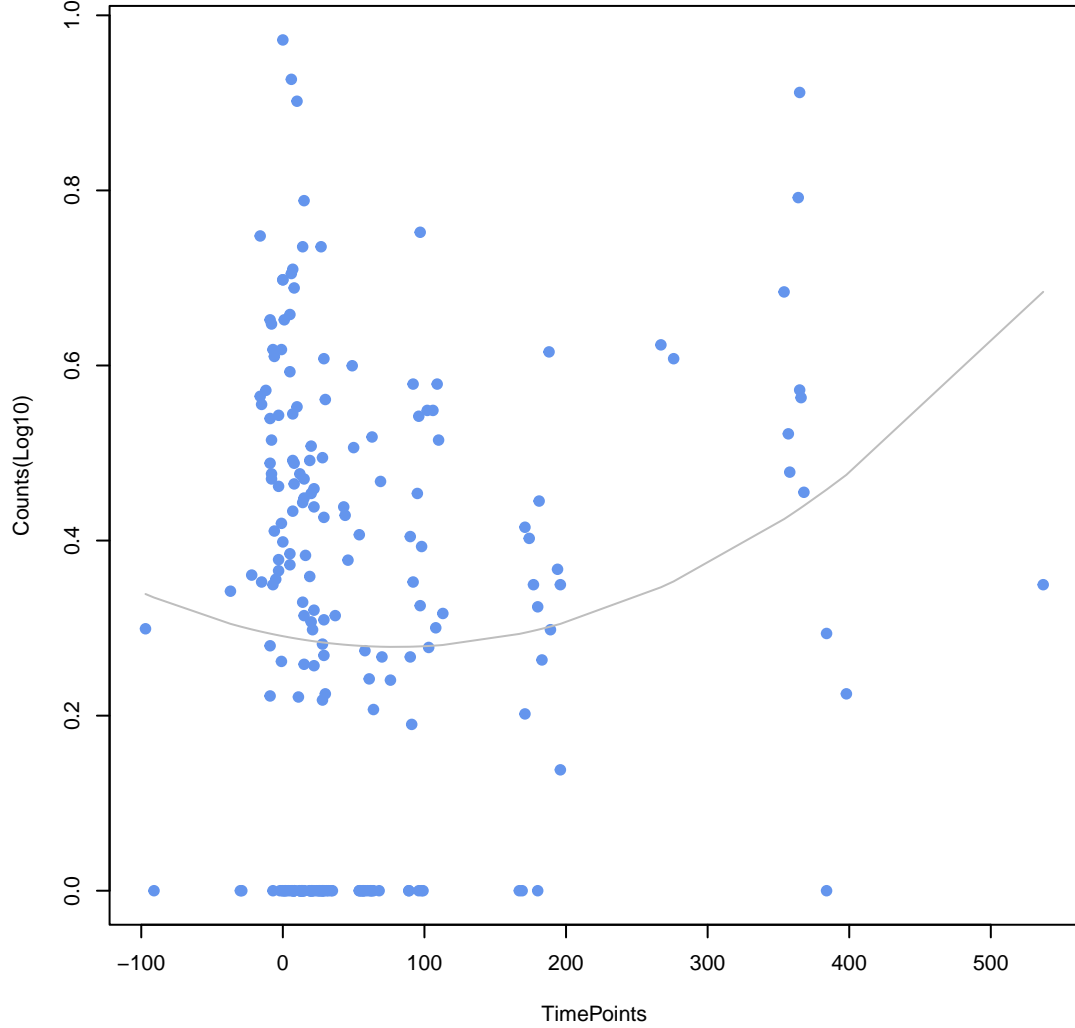
**YojI**

ANOVA  $P=0.268$ , adj. ANOVA- $P=0.799$   
Line vs. Poly F- $P=0.113$ , adj. F- $P=0.927$



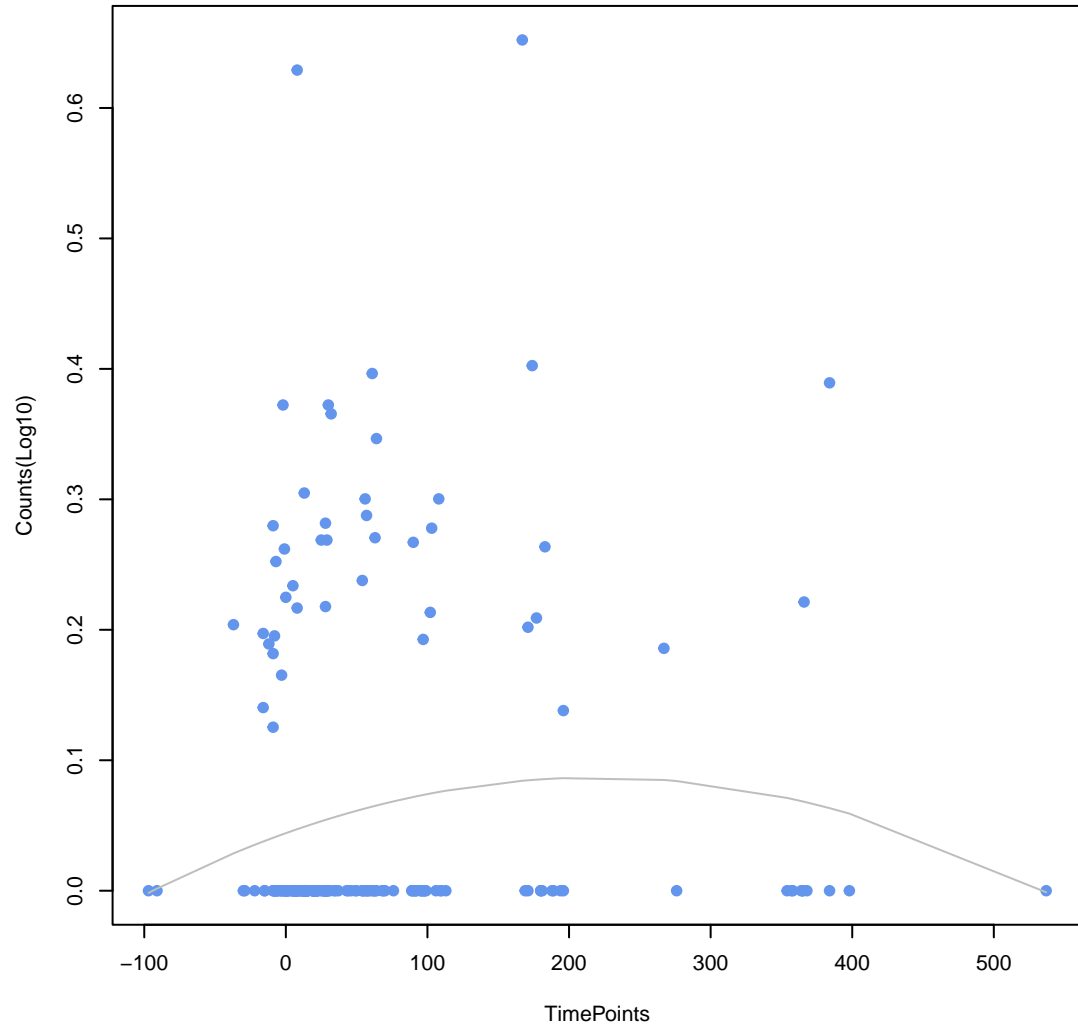
**BlaB-38**

ANOVA  $P=0.0435$ , adj. ANOVA- $P=0.516$   
Line vs. Poly F- $P=0.121$ , adj. F- $P=0.927$



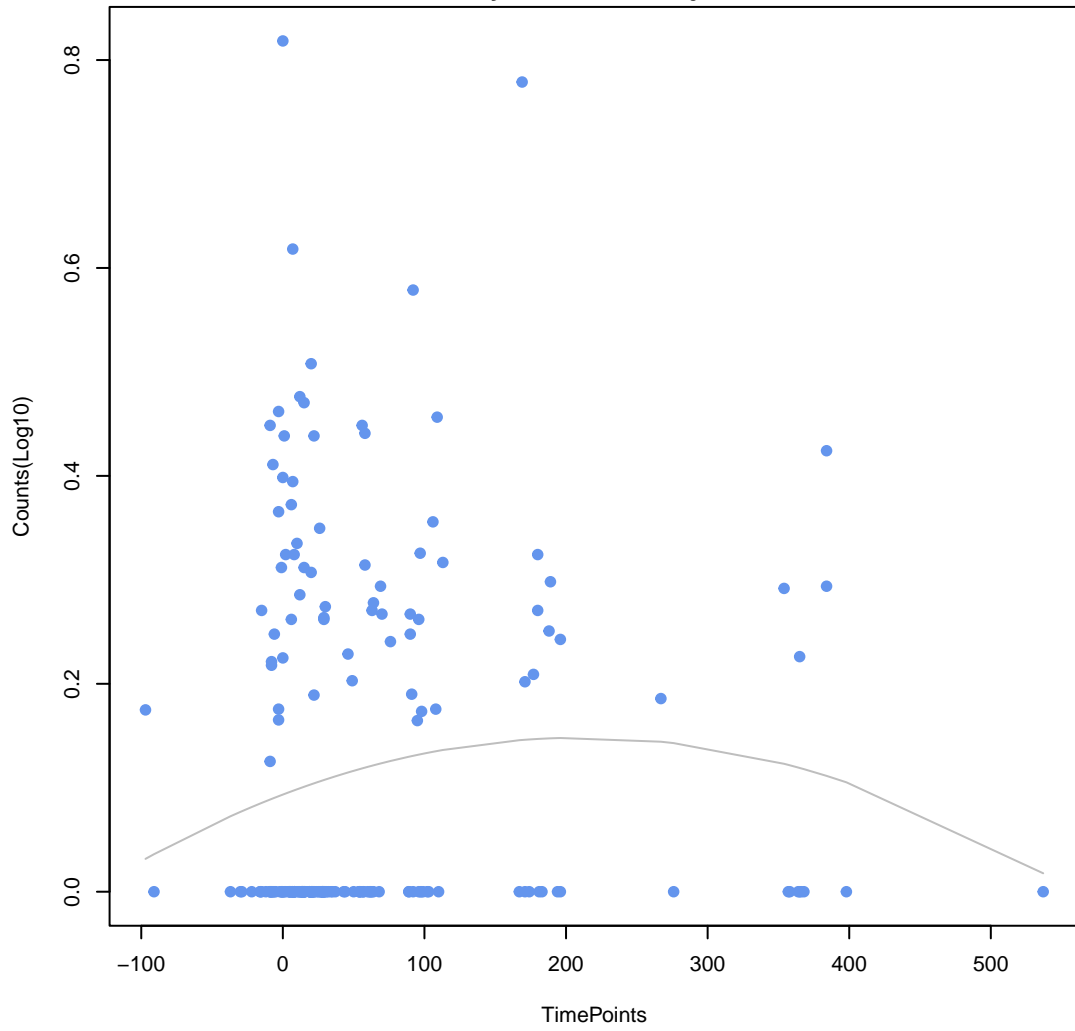
**Escherichia coli GlpT with mutation conferring resistance to fosfomycin**

ANOVA  $P=0.195$ , adj. ANOVA- $P=0.779$   
Line vs. Poly F- $P=0.133$ , adj. F- $P=0.927$



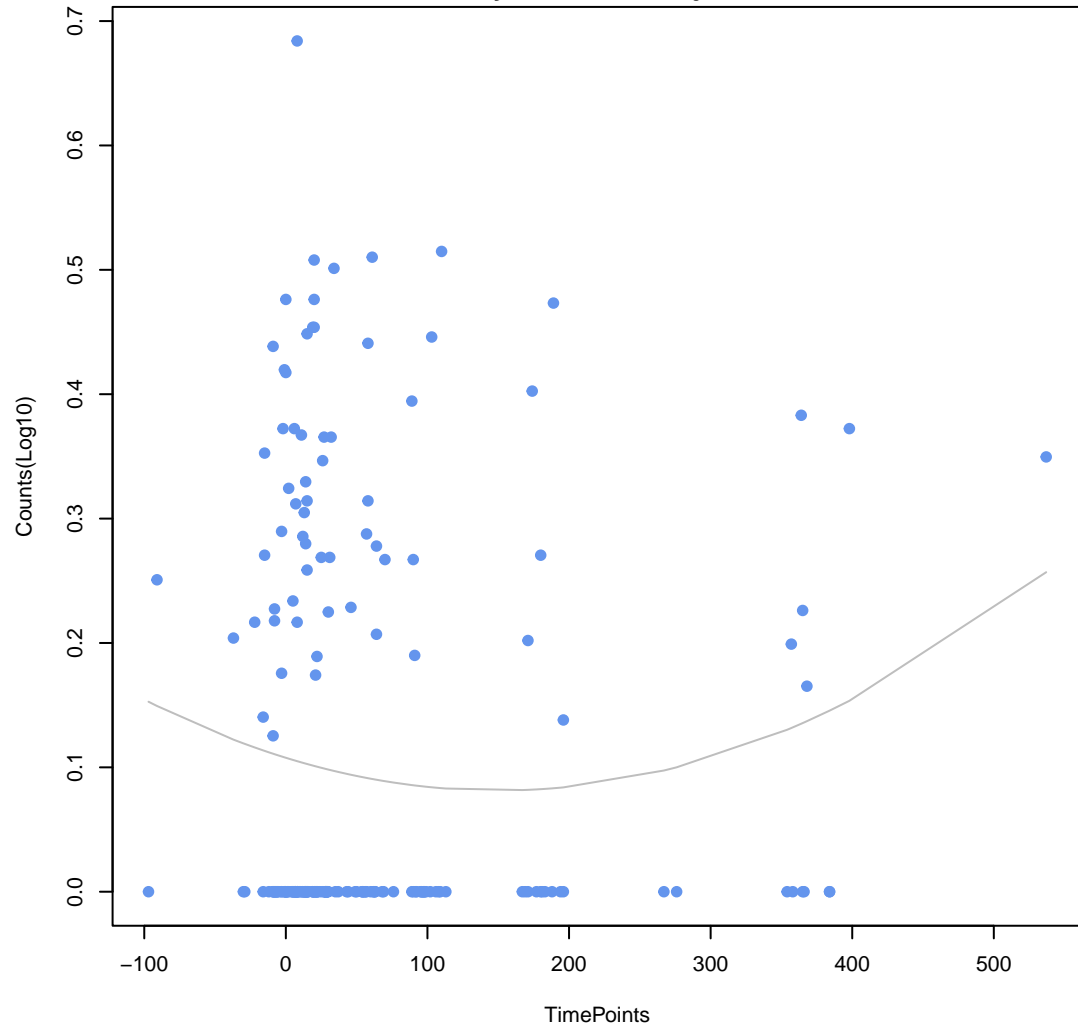
**farB**

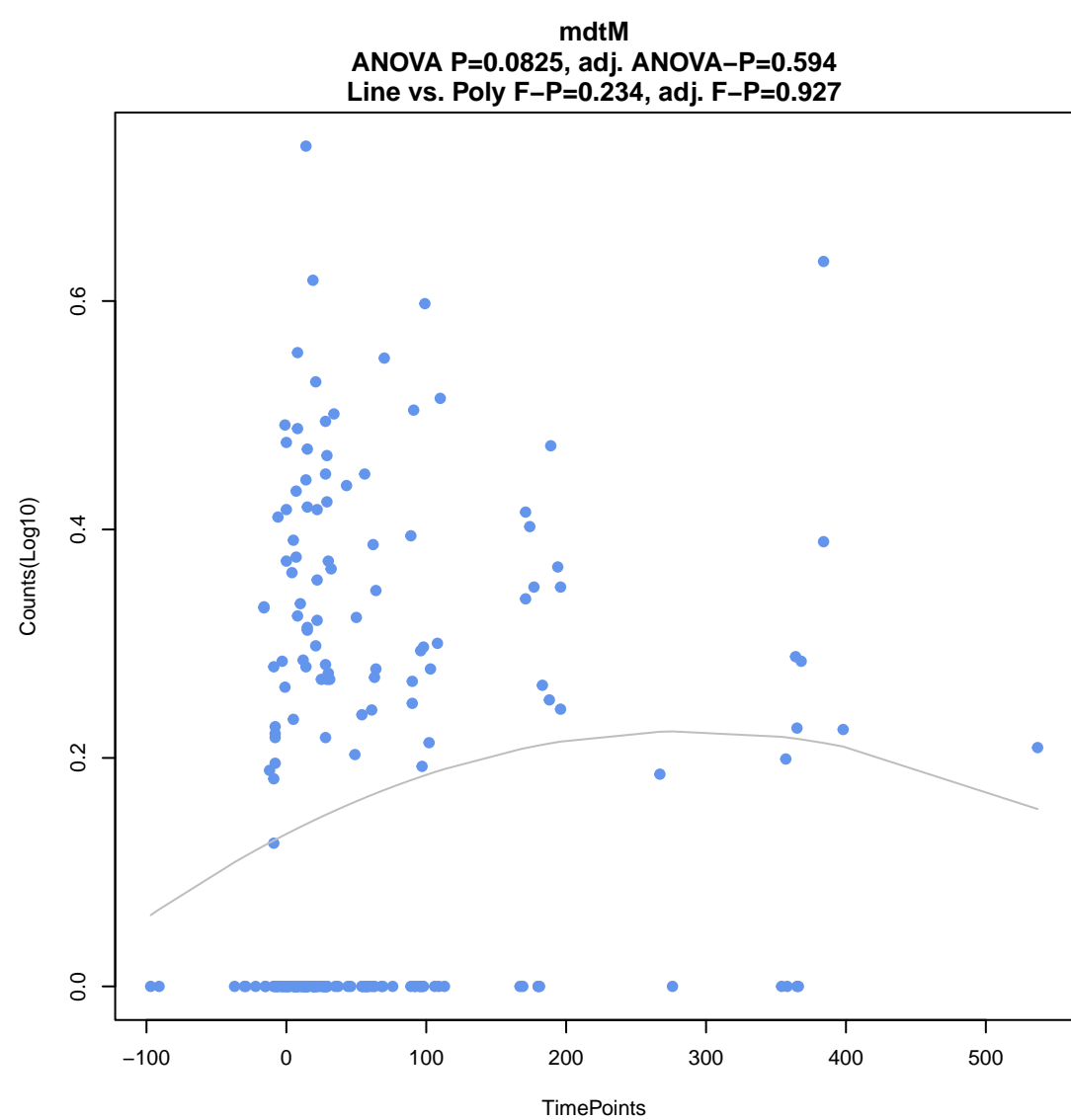
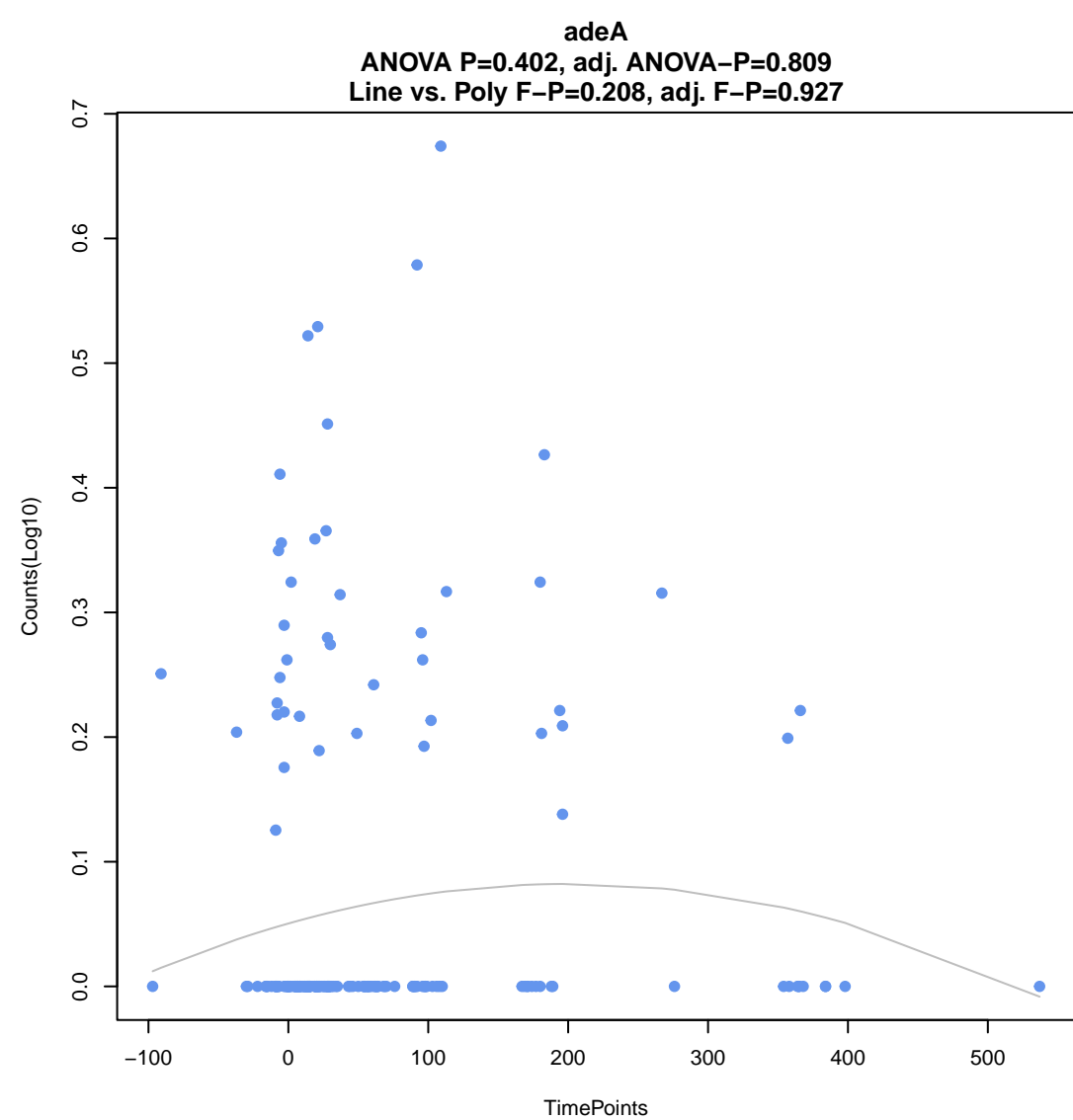
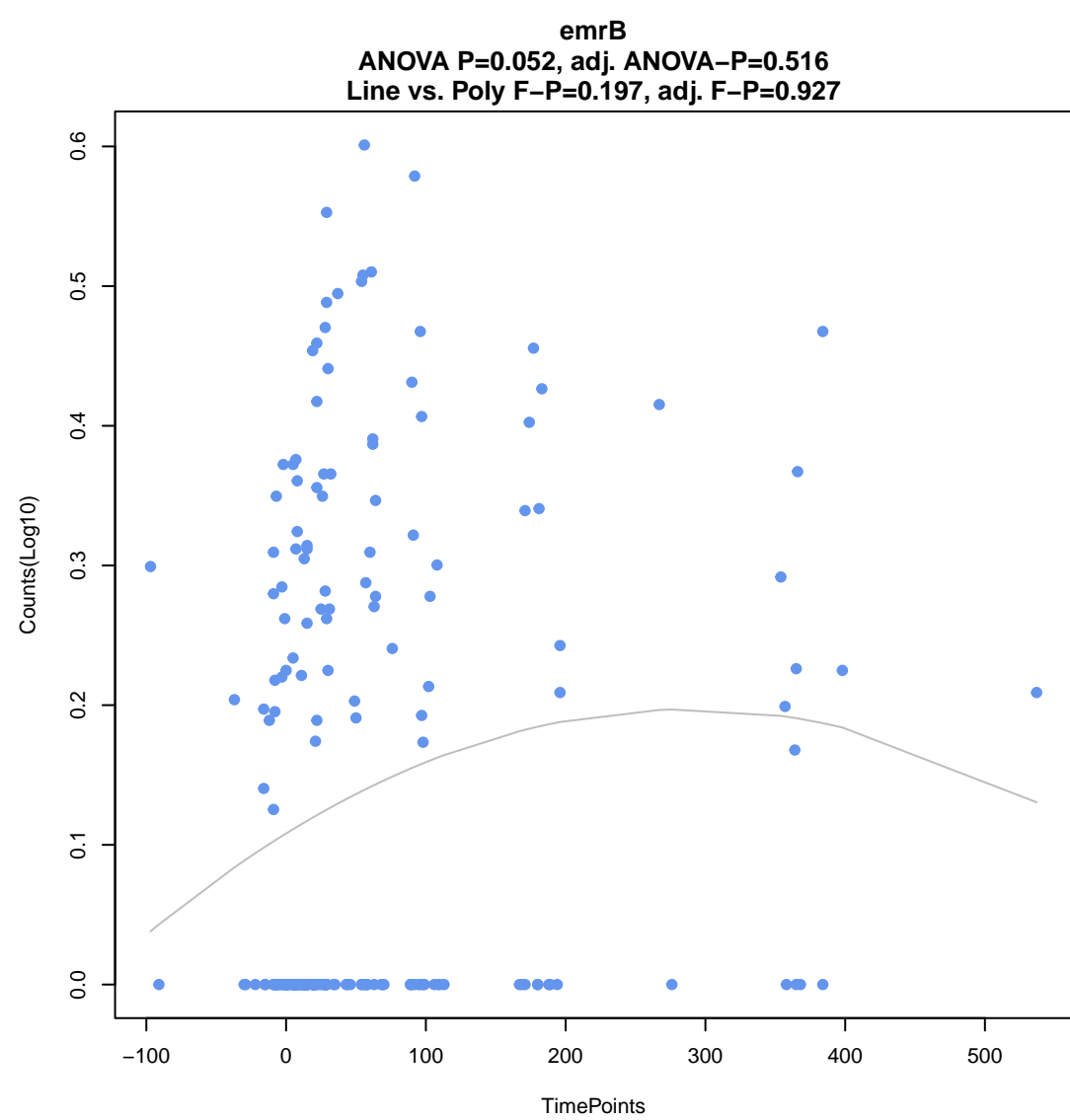
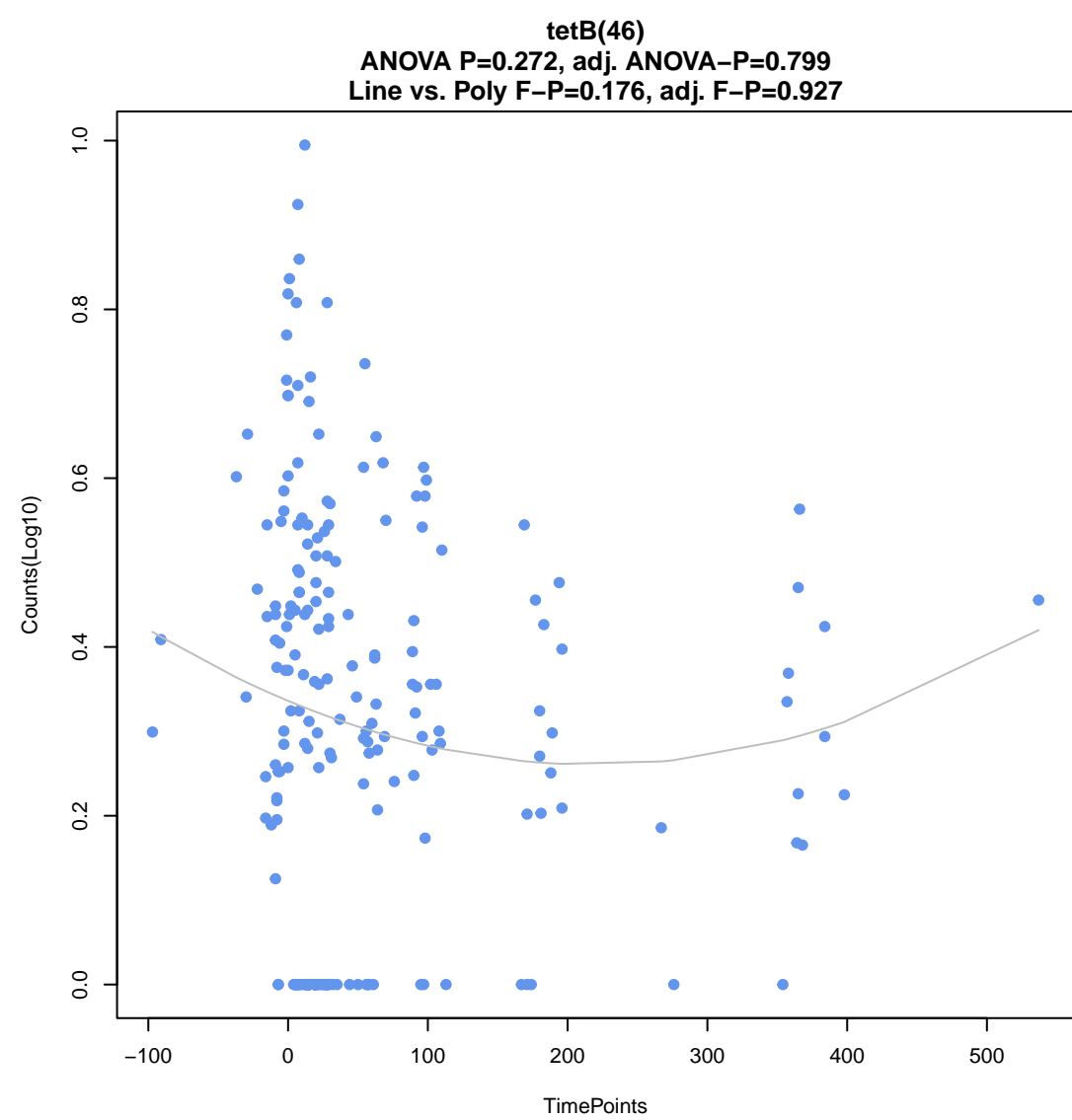
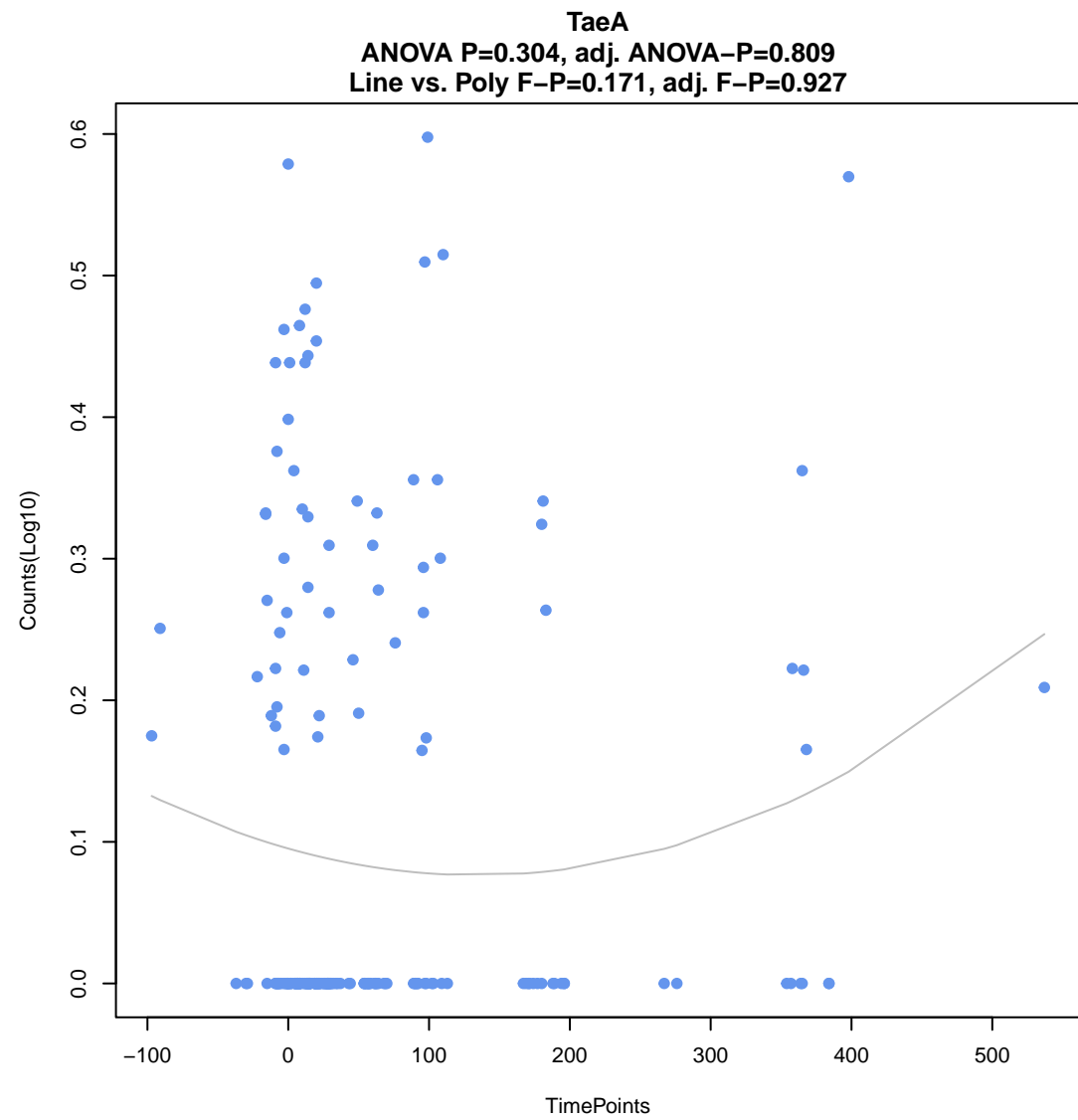
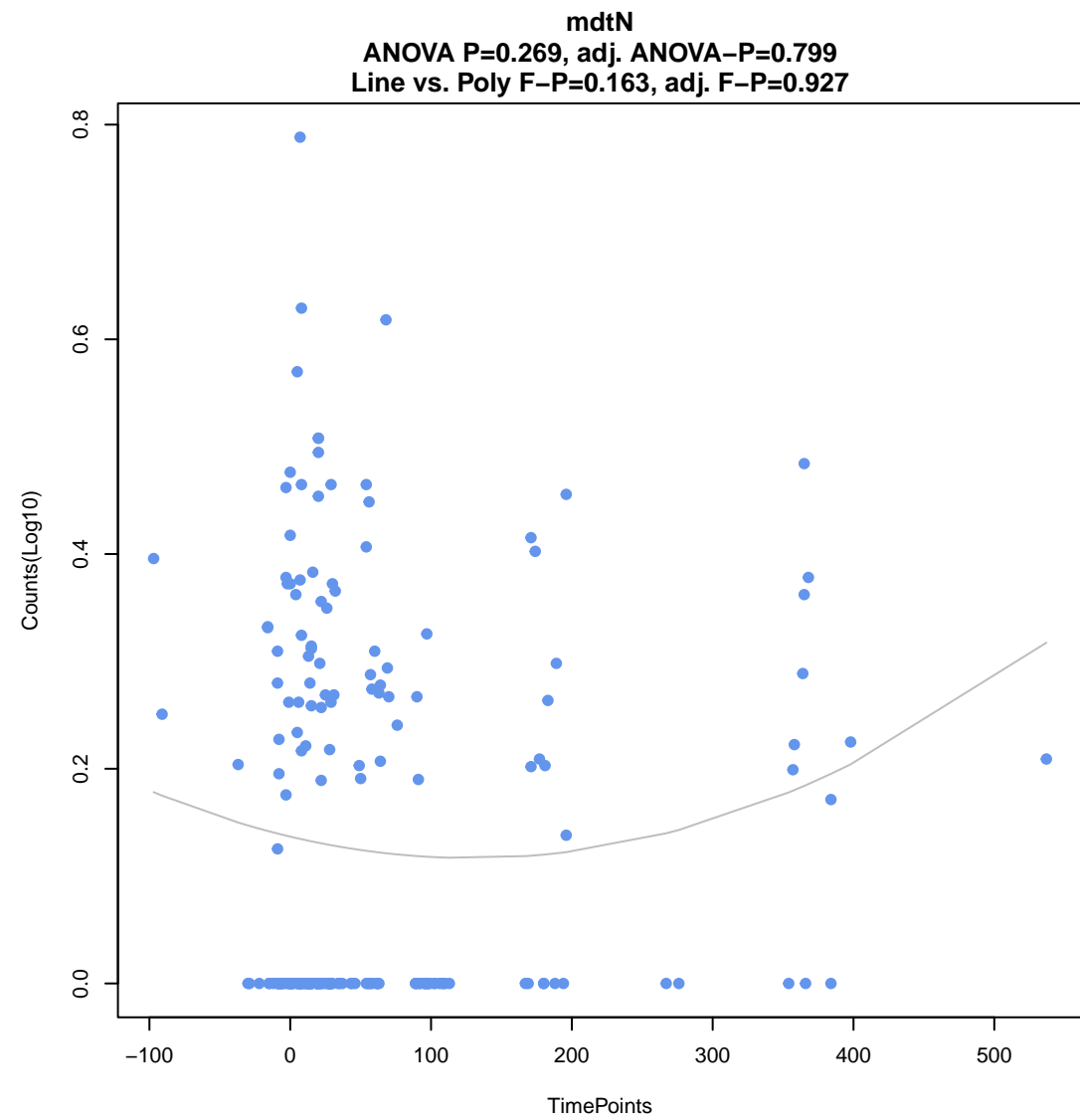
ANOVA  $P=0.24$ , adj. ANOVA- $P=0.799$   
Line vs. Poly F- $P=0.137$ , adj. F- $P=0.927$



**APH(3'')-Ib**

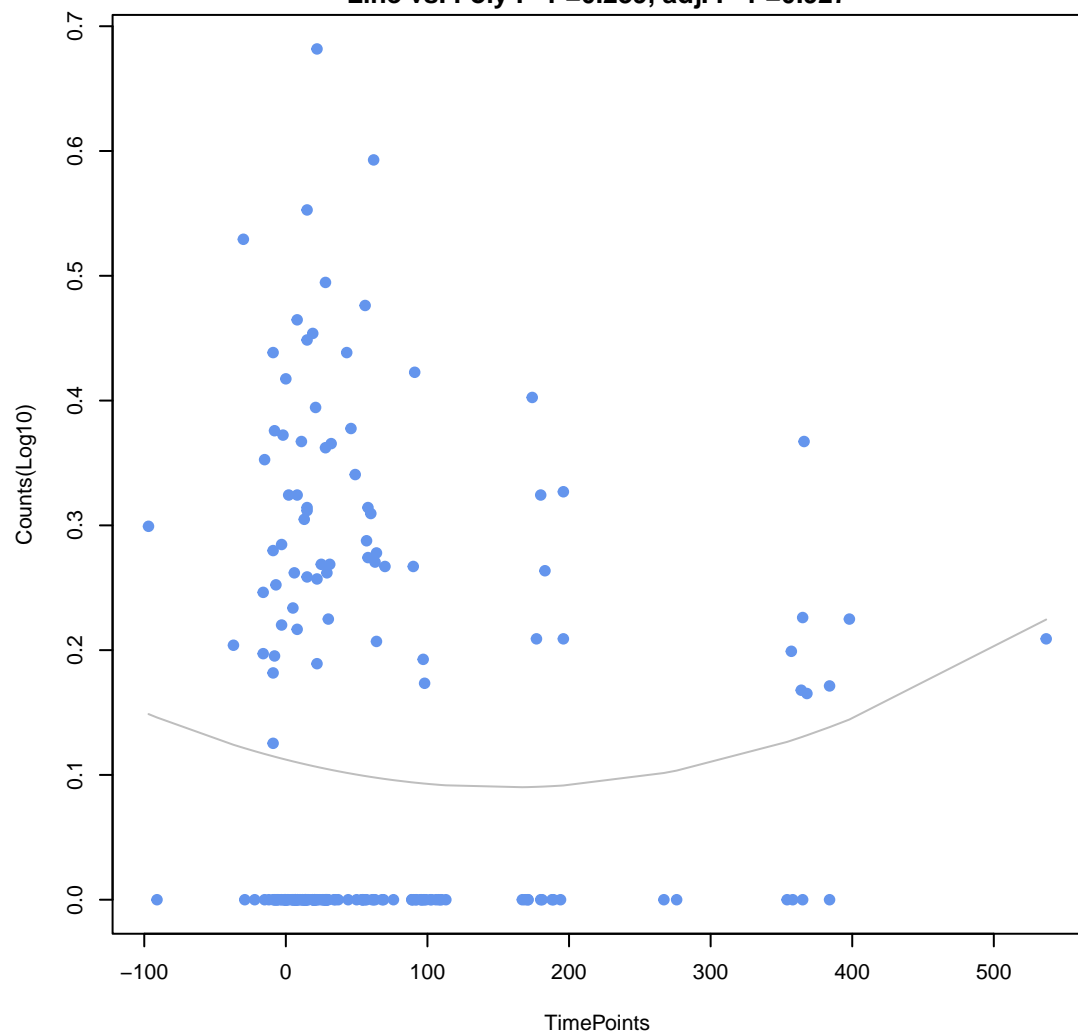
ANOVA  $P=0.304$ , adj. ANOVA- $P=0.809$   
Line vs. Poly F- $P=0.139$ , adj. F- $P=0.927$





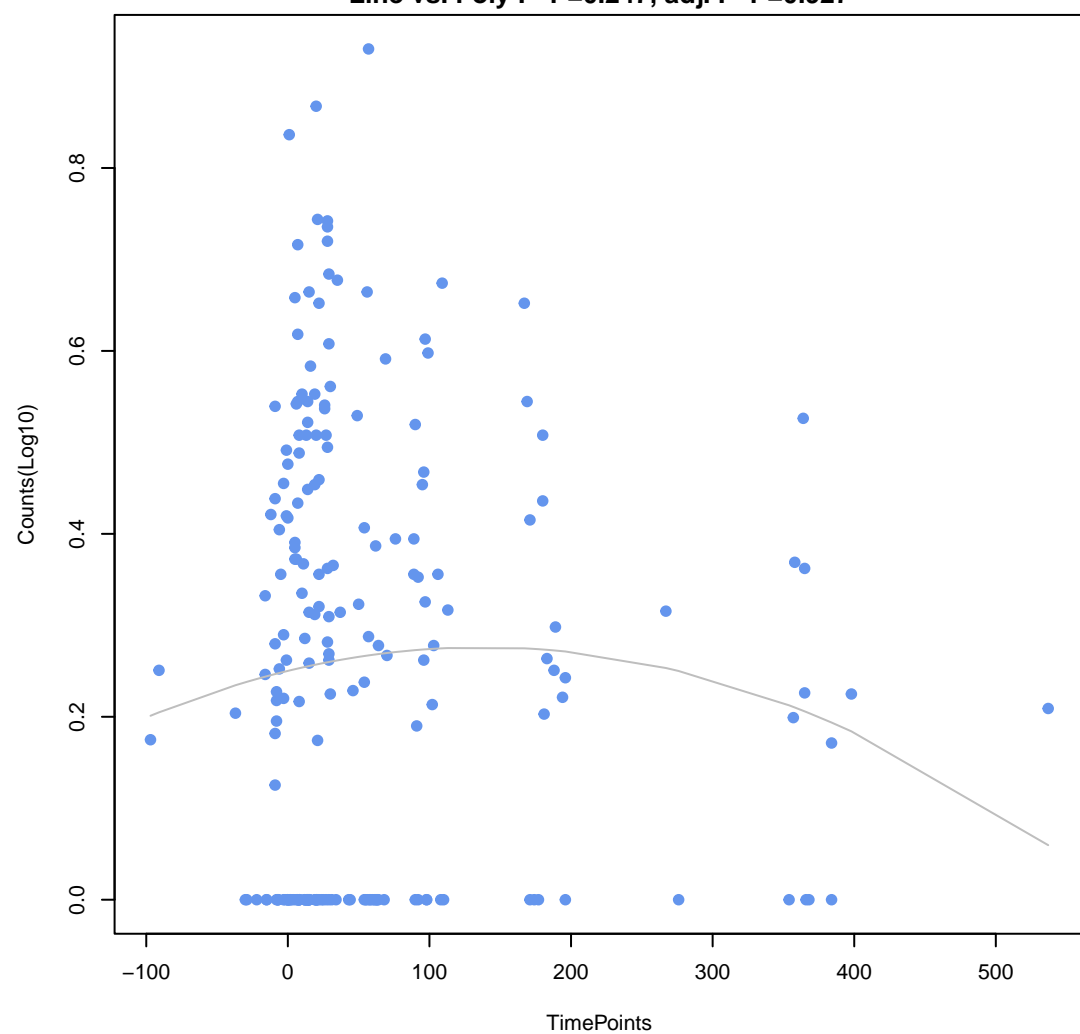
**emrK**

ANOVA P=0.484, adj. ANOVA-P=0.818  
Line vs. Poly F-P=0.239, adj. F-P=0.927

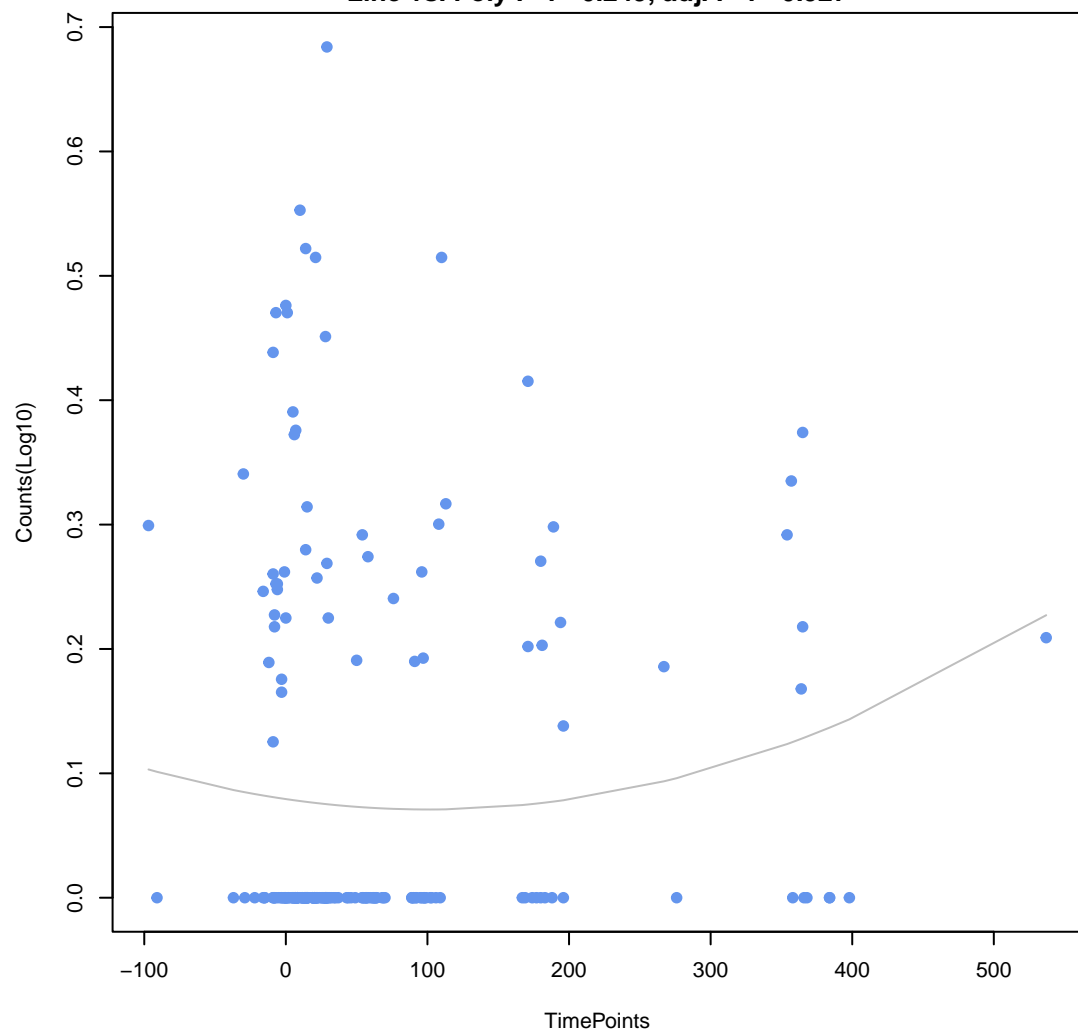


**fexA**

ANOVA P=0.442, adj. ANOVA-P=0.809  
Line vs. Poly F-P=0.247, adj. F-P=0.927

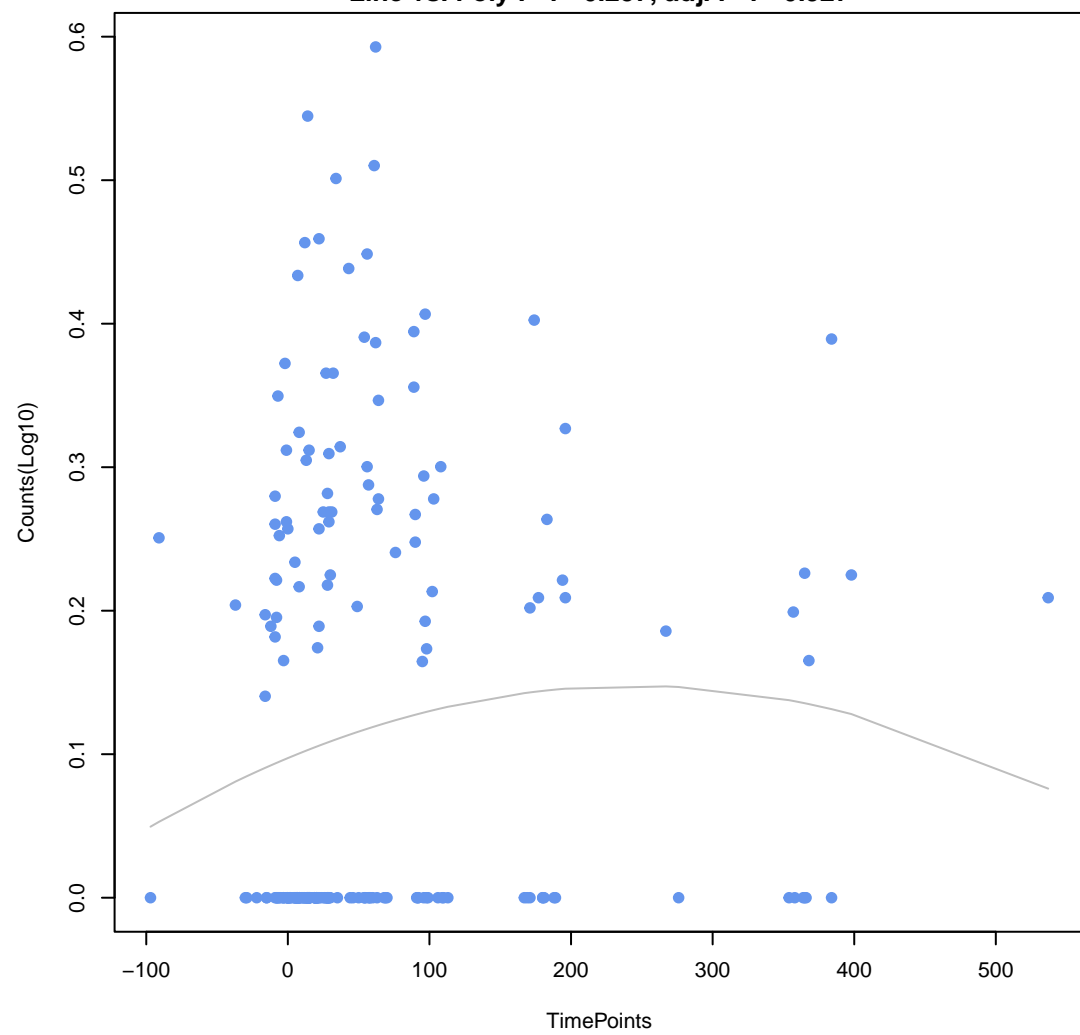


**Streptomyces rimosus otr(A)**  
ANOVA P=0.274, adj. ANOVA-P=0.799  
Line vs. Poly F-P=0.249, adj. F-P=0.927



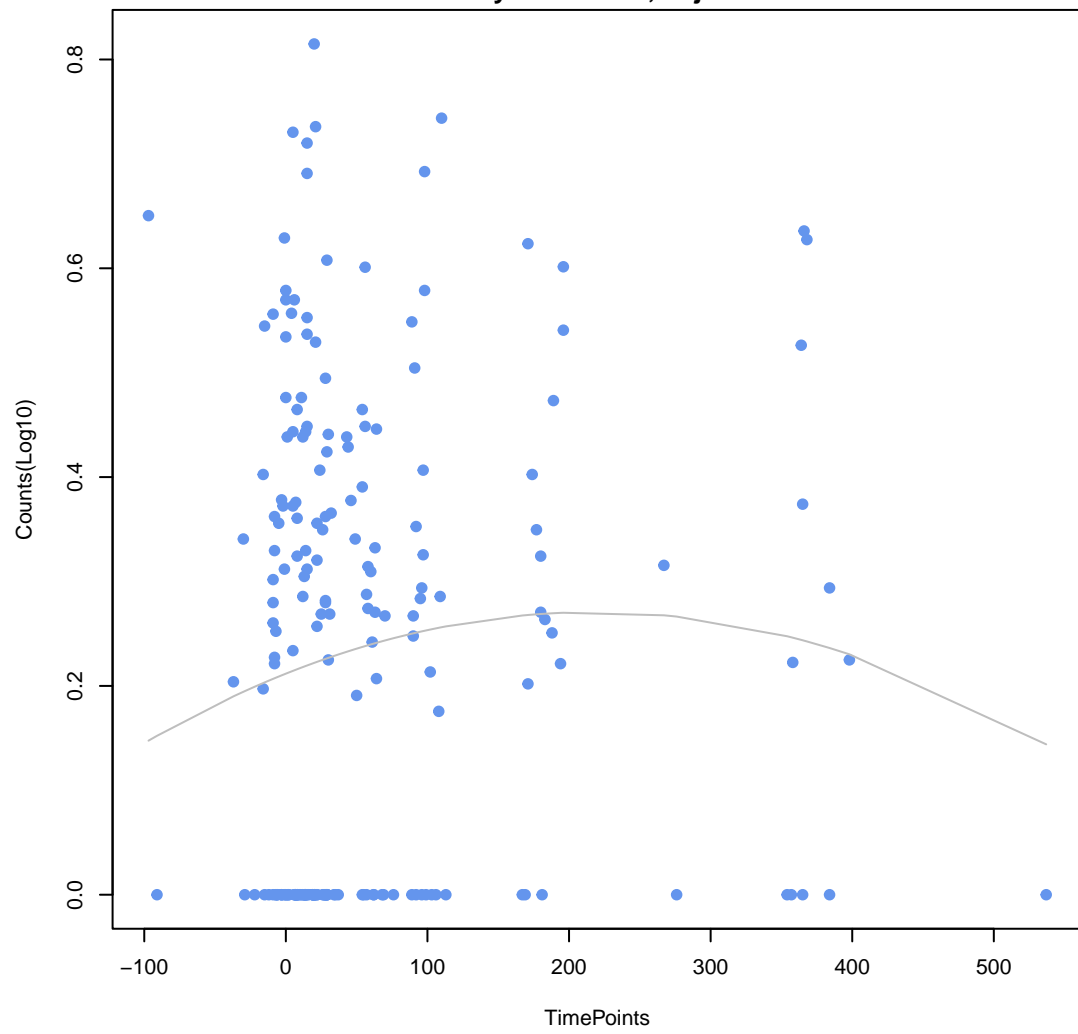
**H-NS**

ANOVA P=0.274, adj. ANOVA-P=0.799  
Line vs. Poly F-P=0.257, adj. F-P=0.927



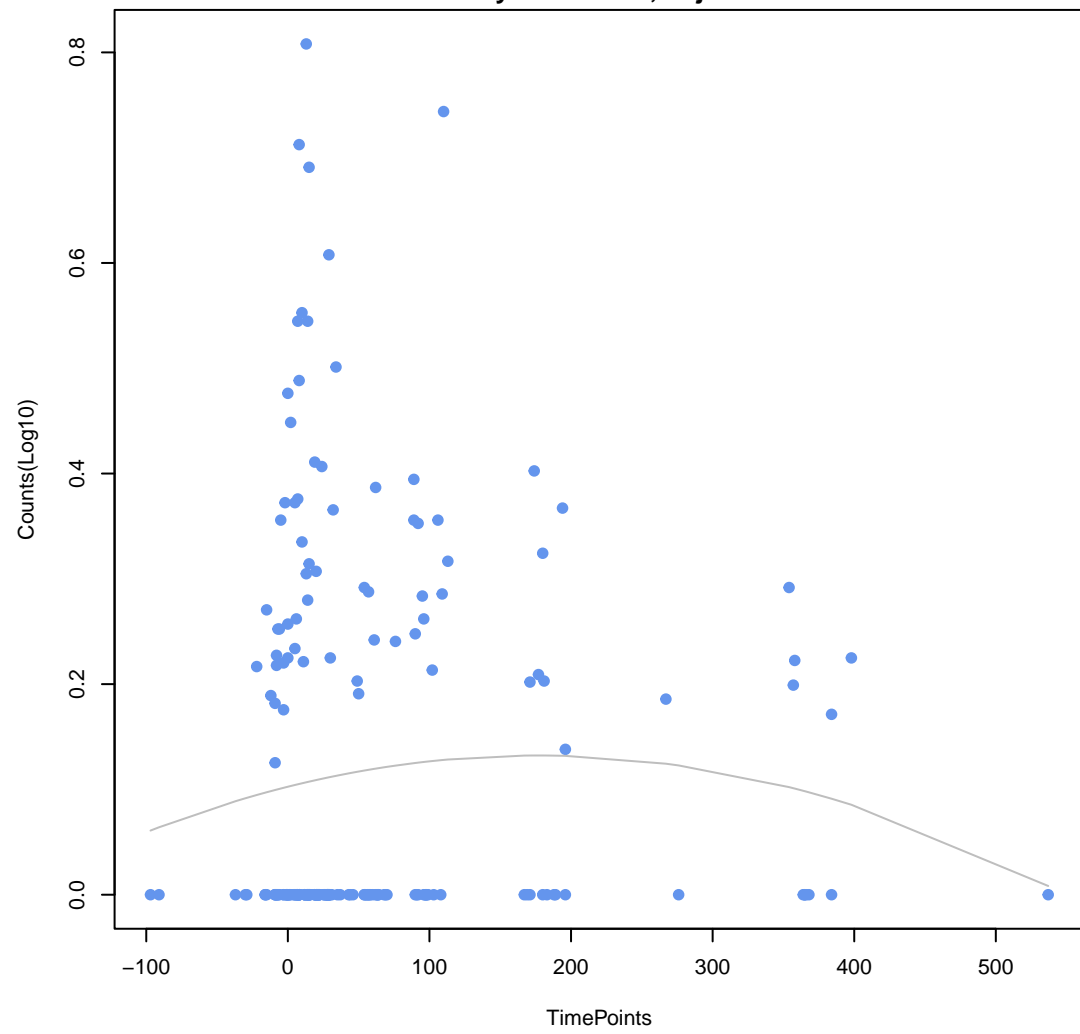
**AcrF**

ANOVA P=0.411, adj. ANOVA-P=0.809  
Line vs. Poly F-P=0.261, adj. F-P=0.927

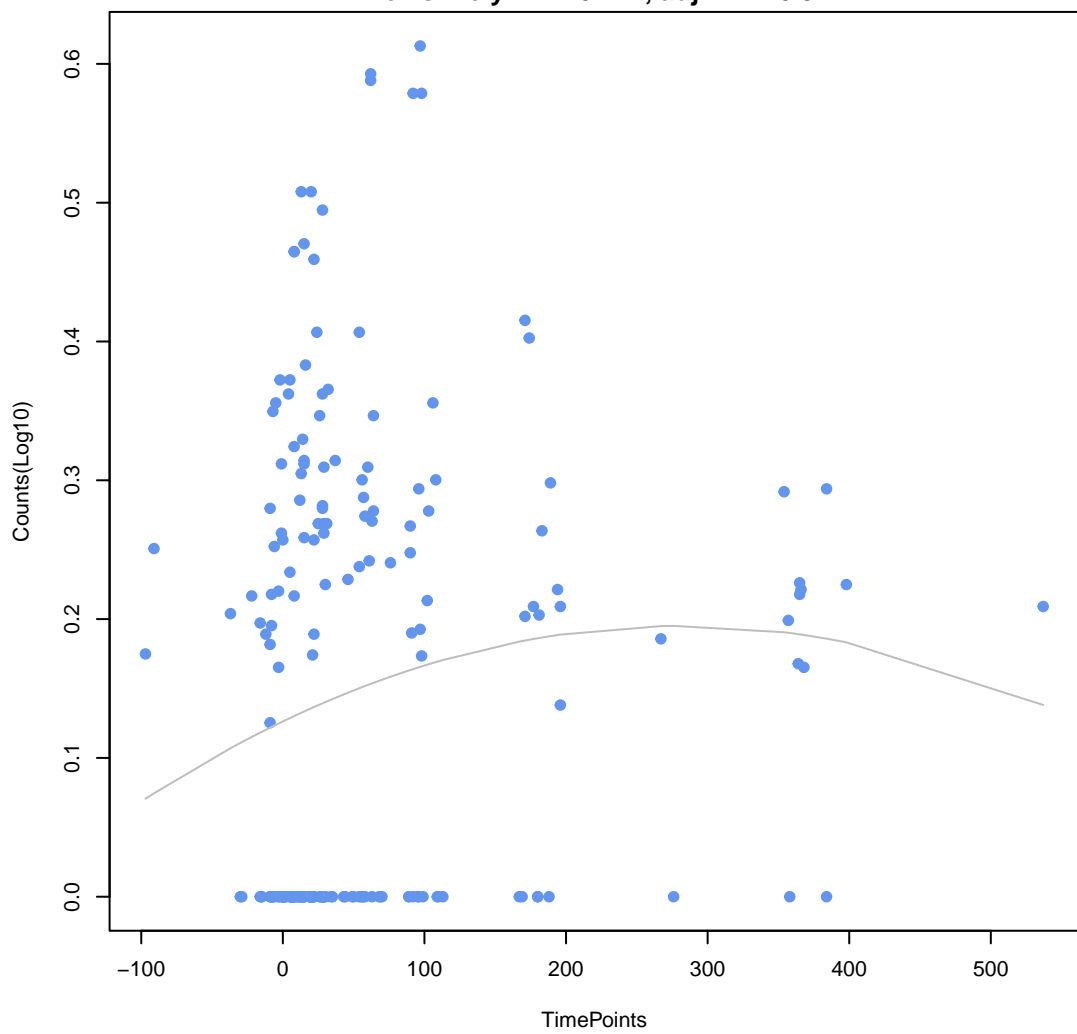


**CfxA3**

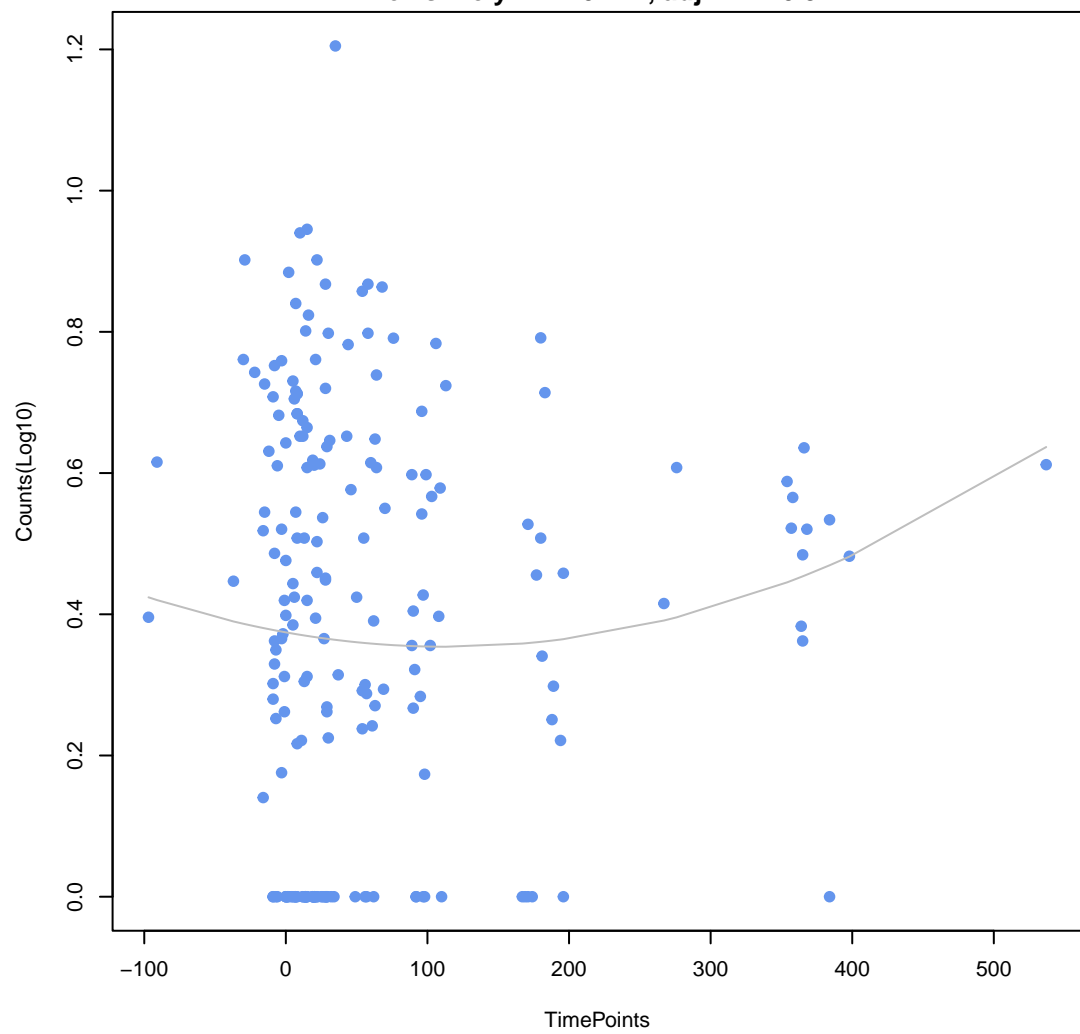
ANOVA P=0.539, adj. ANOVA-P=0.822  
Line vs. Poly F-P=0.267, adj. F-P=0.927



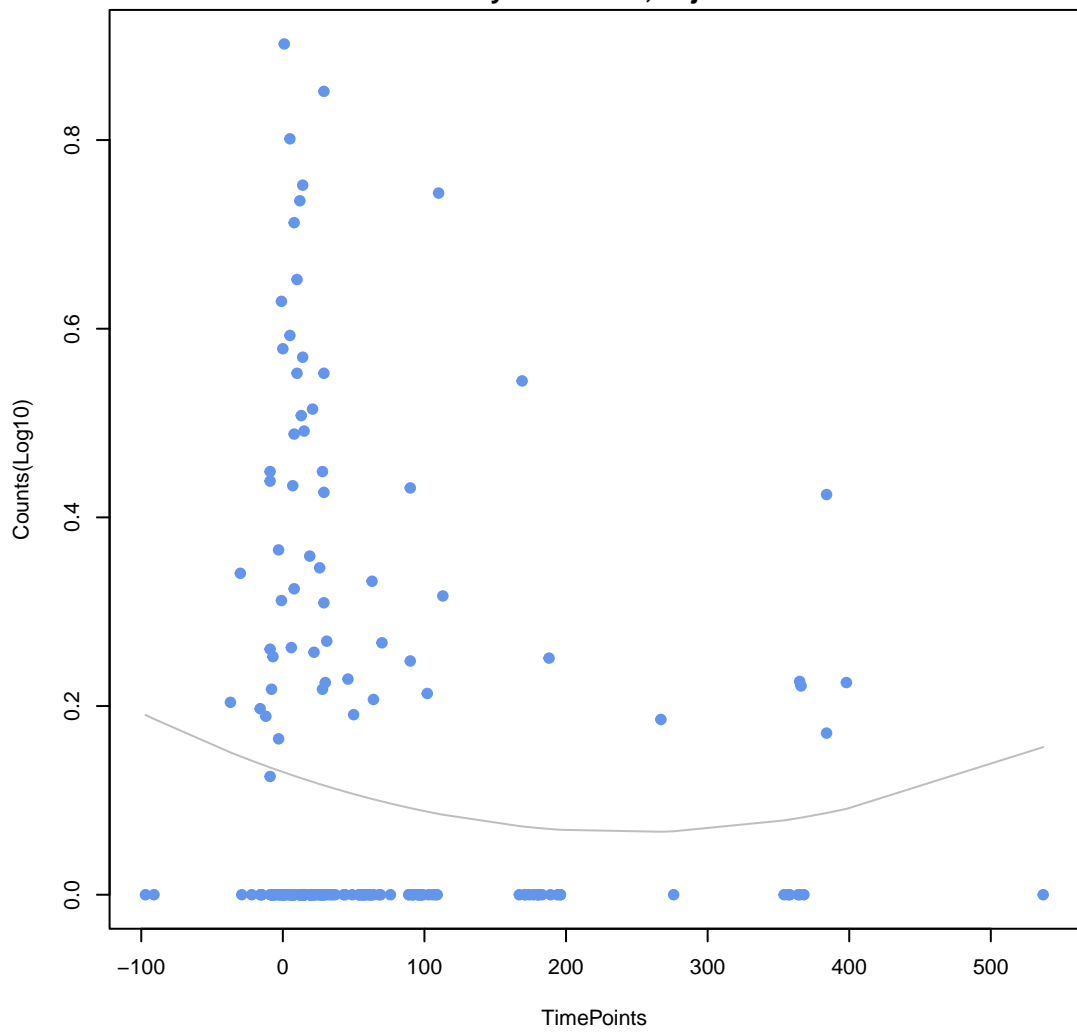
**Escherichia coli EF-Tu mutants conferring resistance to Pulvomycin**  
ANOVA  $P=0.144$ , adj. ANOVA- $P=0.706$   
Line vs. Poly F- $P=0.277$ , adj. F- $P=0.927$



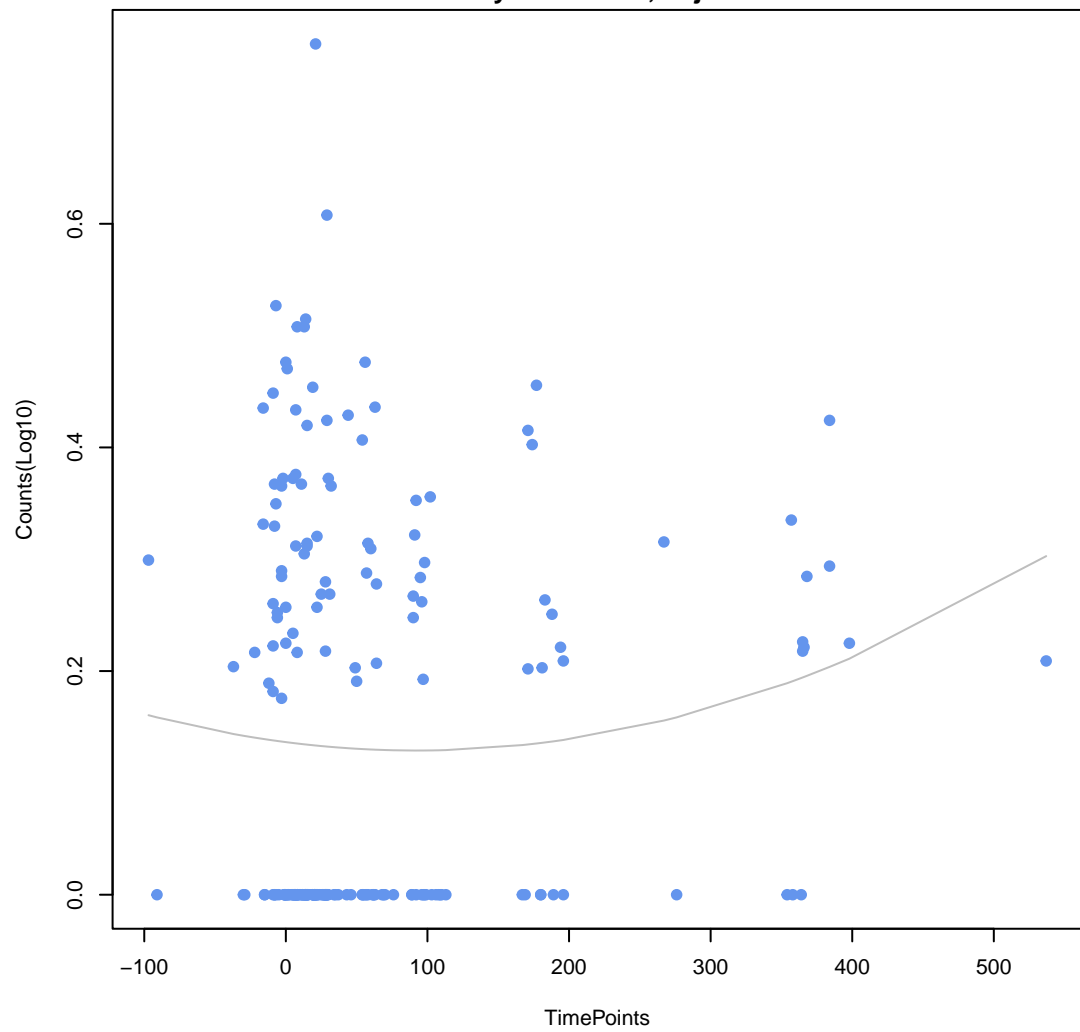
**poxA**  
ANOVA  $P=0.379$ , adj. ANOVA- $P=0.809$   
Line vs. Poly F- $P=0.277$ , adj. F- $P=0.927$



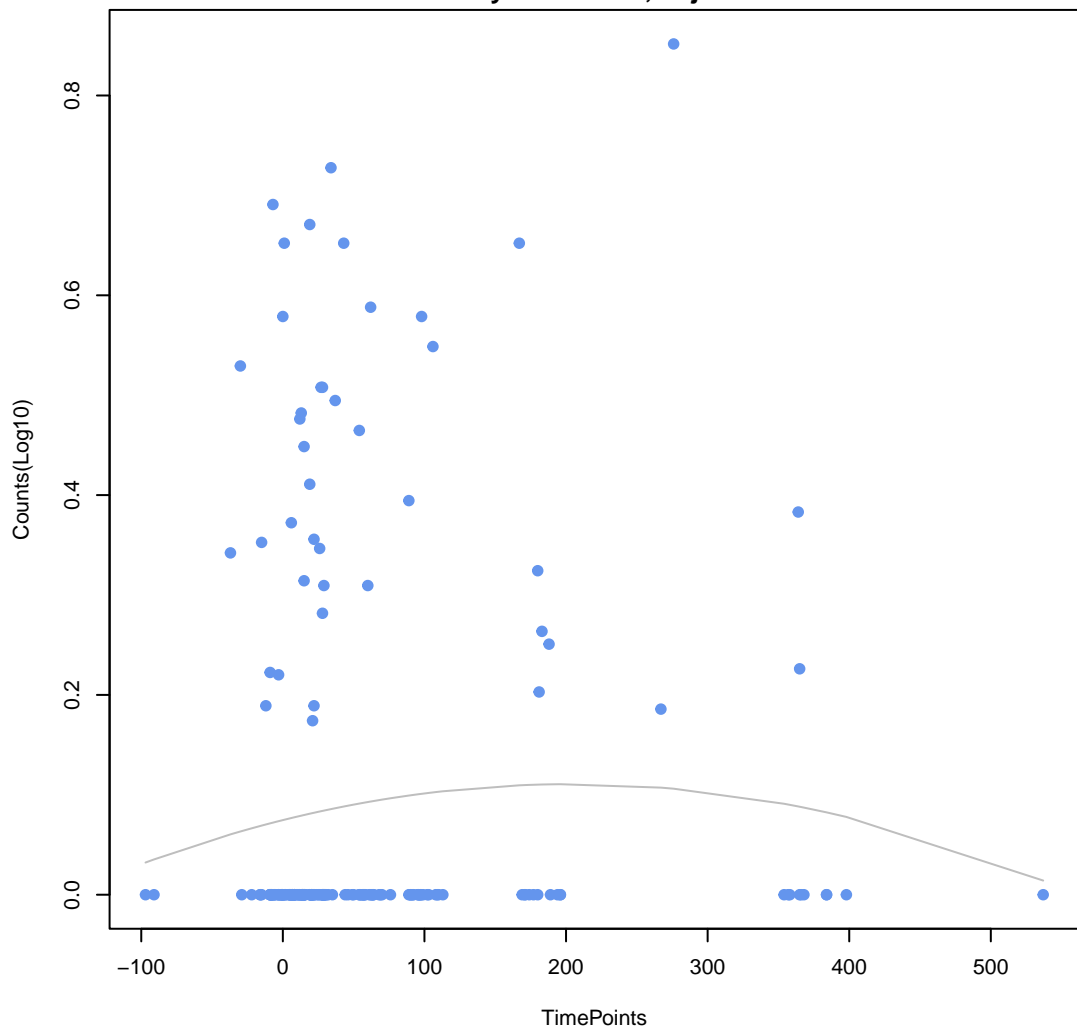
**pmrA**  
ANOVA  $P=0.324$ , adj. ANOVA- $P=0.809$   
Line vs. Poly F- $P=0.293$ , adj. F- $P=0.927$



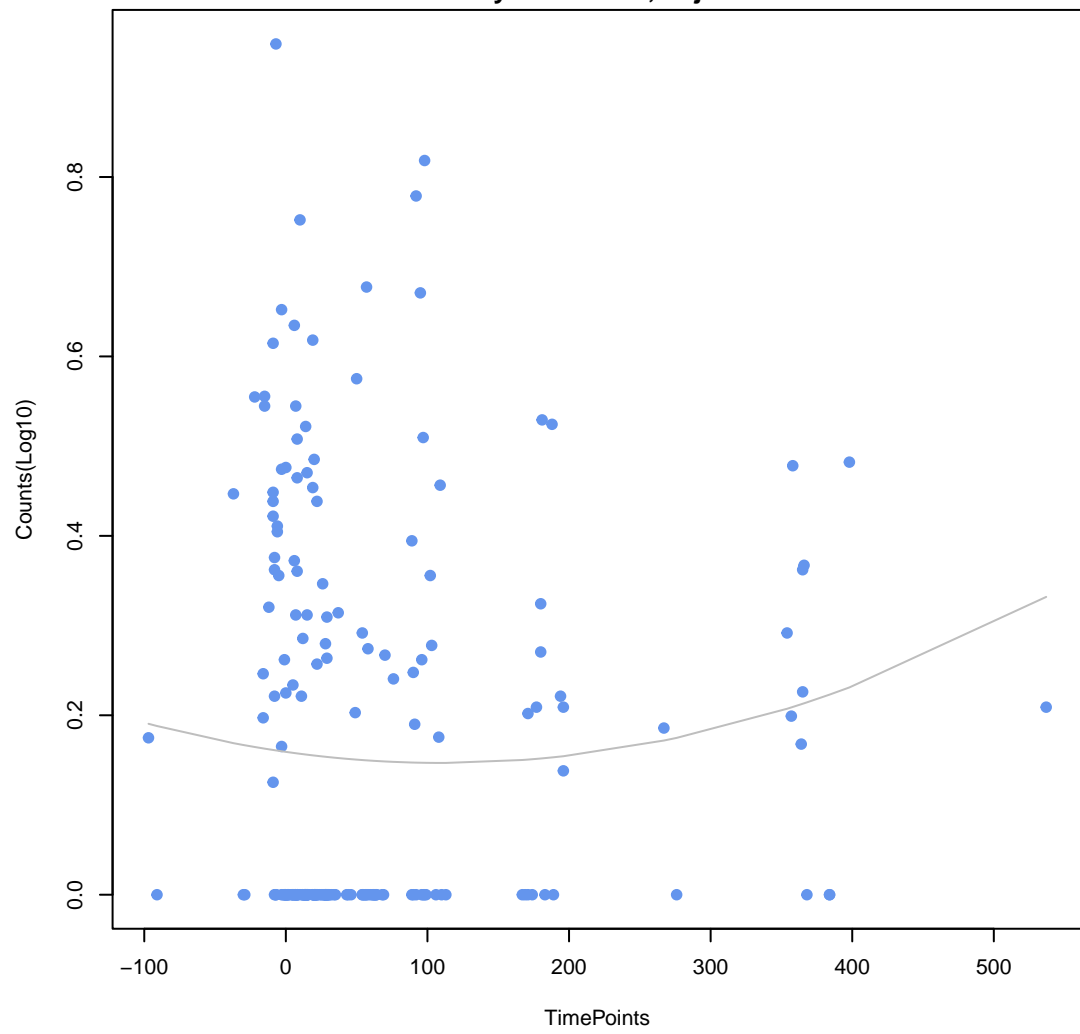
**mdtH**  
ANOVA  $P=0.308$ , adj. ANOVA- $P=0.809$   
Line vs. Poly F- $P=0.301$ , adj. F- $P=0.927$



**tet(L)**  
ANOVA  $P=0.579$ , adj. ANOVA- $P=0.822$   
Line vs. Poly F- $P=0.338$ , adj. F- $P=0.927$

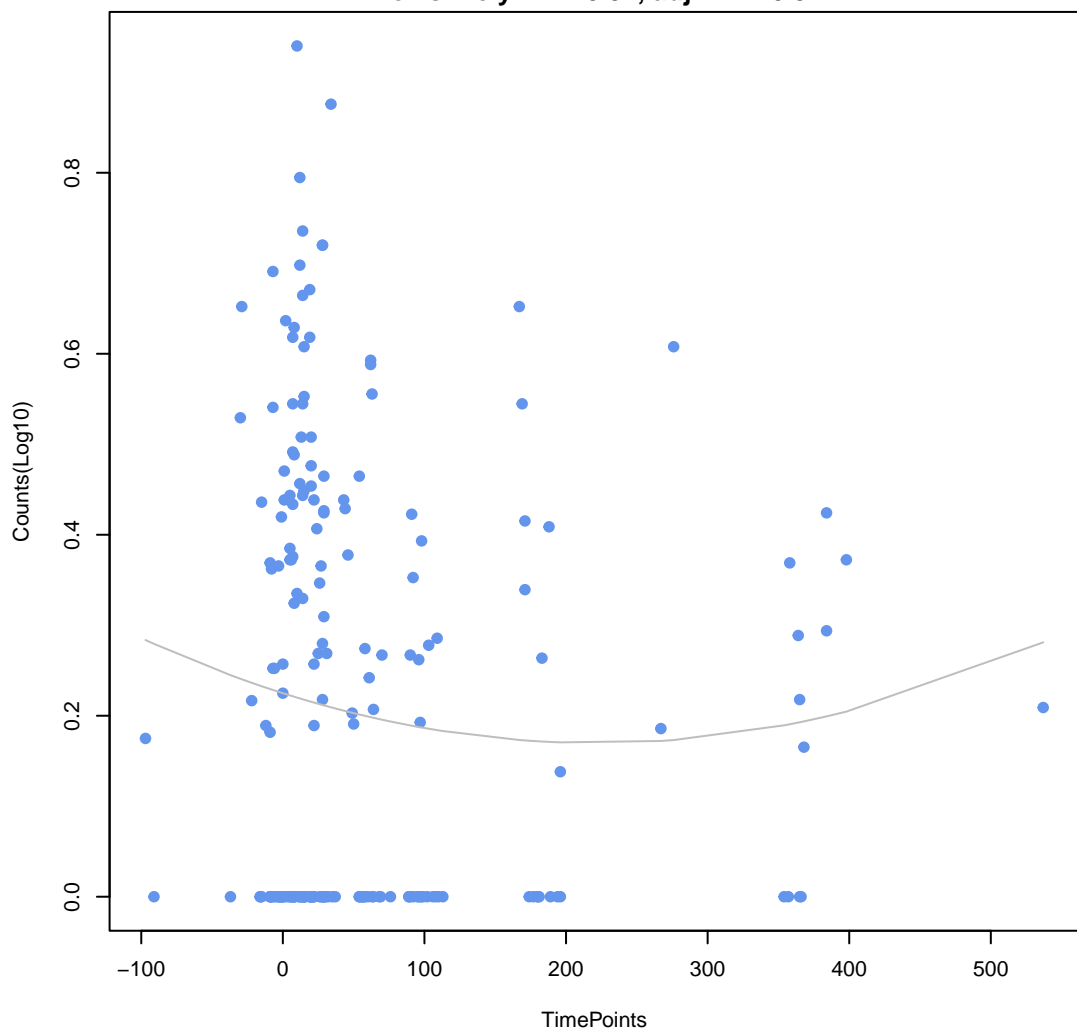


**APH(6)-Ic**  
ANOVA  $P=0.454$ , adj. ANOVA- $P=0.809$   
Line vs. Poly F- $P=0.338$ , adj. F- $P=0.927$



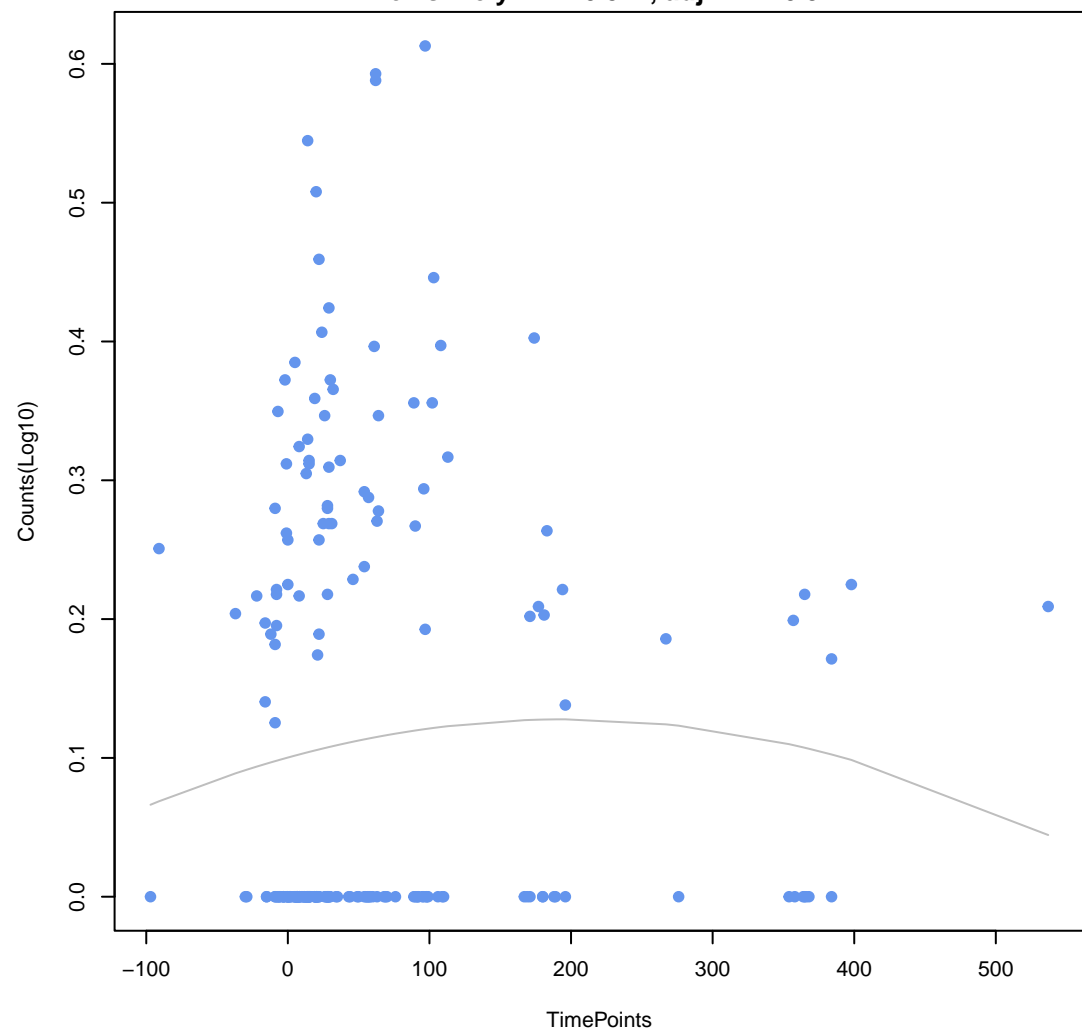
msrC

ANOVA P=0.509, adj. ANOVA-P=0.822  
Line vs. Poly F-P=0.34, adj. F-P=0.927



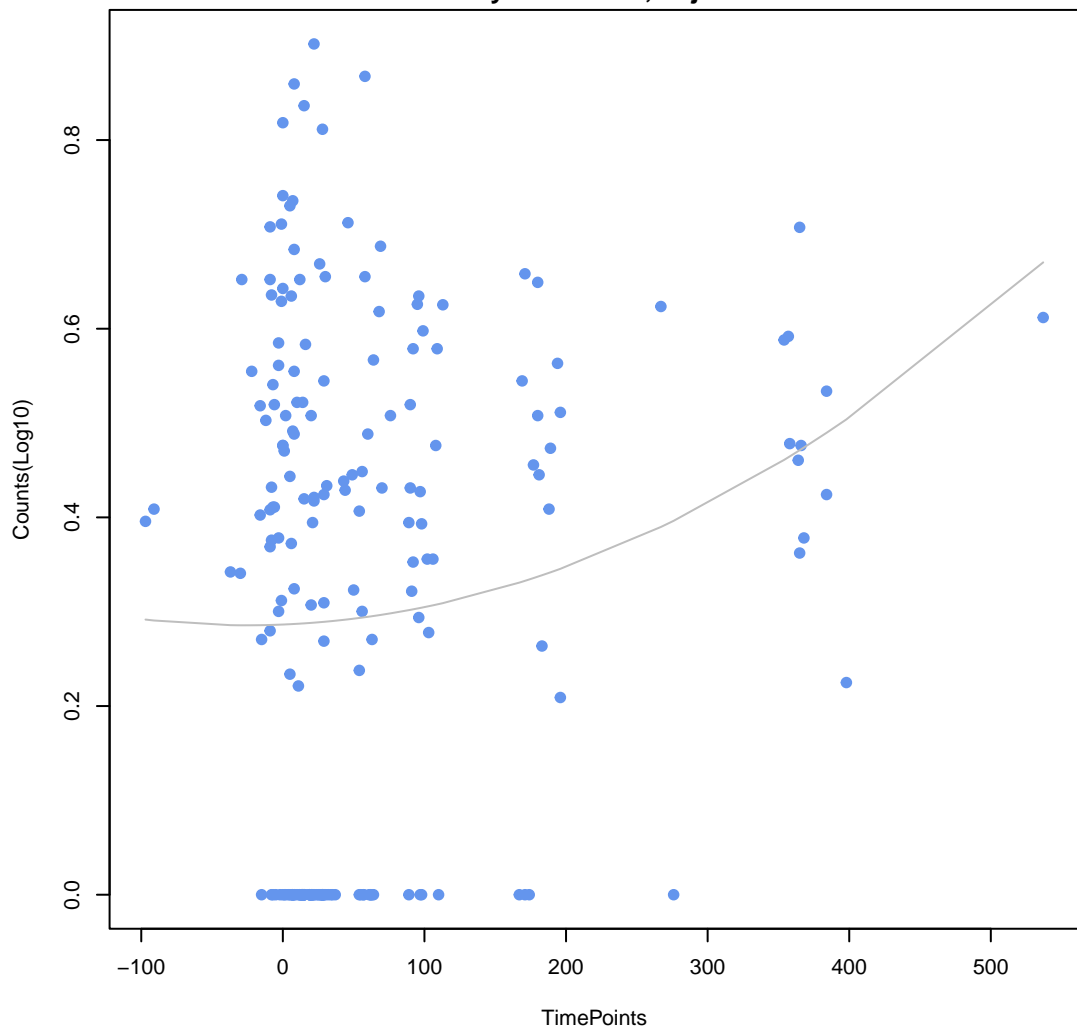
rsmA

ANOVA P=0.608, adj. ANOVA-P=0.85  
Line vs. Poly F-P=0.344, adj. F-P=0.927



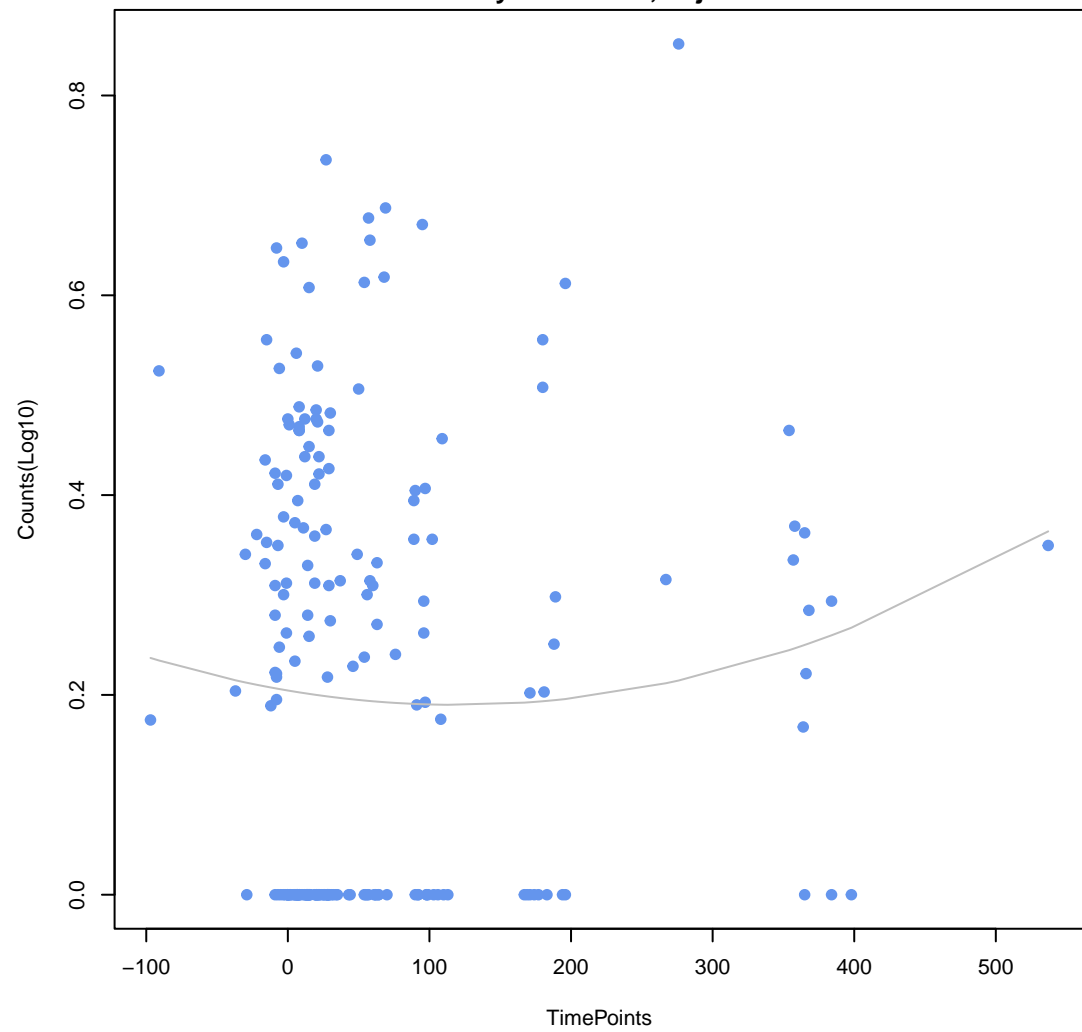
tet(36)

ANOVA P=0.0248, adj. ANOVA-P=0.516  
Line vs. Poly F-P=0.348, adj. F-P=0.927



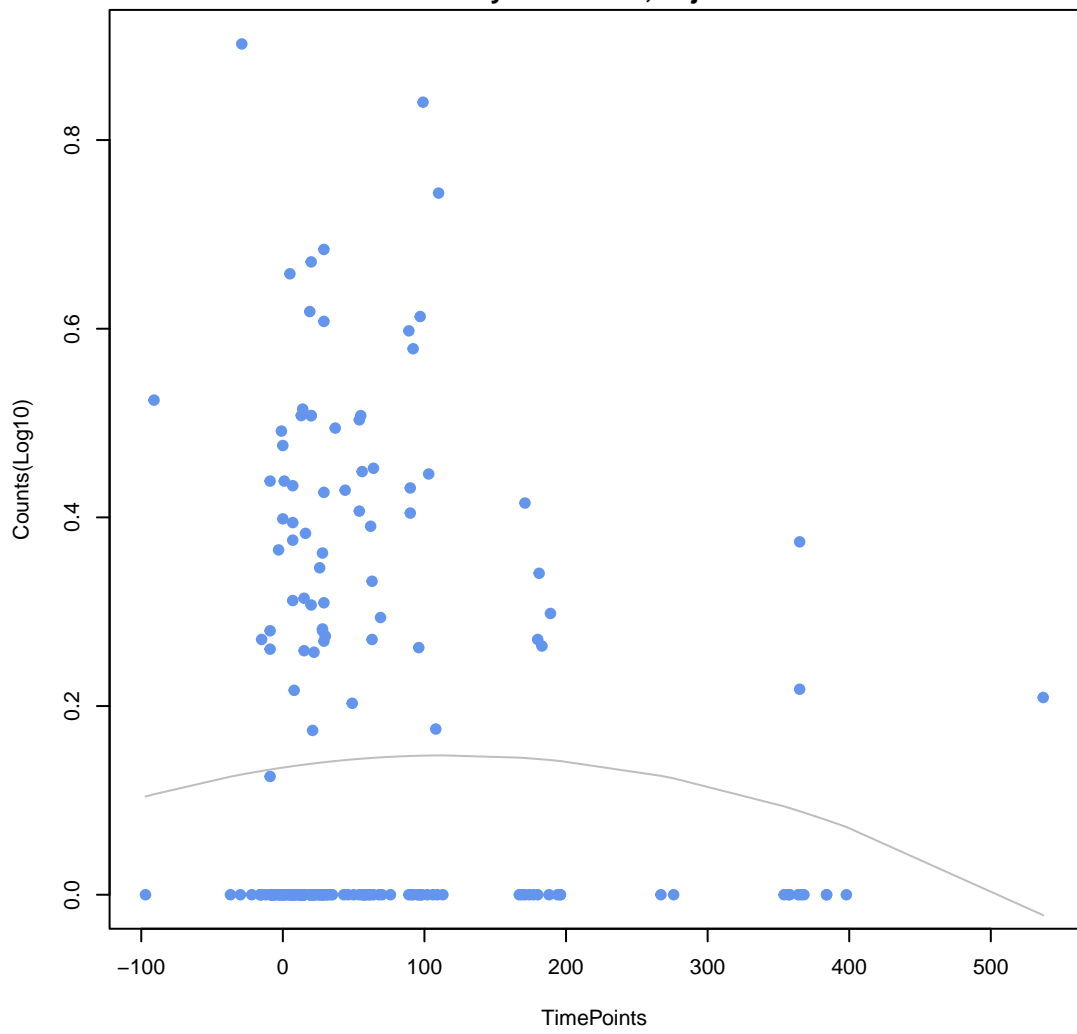
chrB

ANOVA P=0.52, adj. ANOVA-P=0.822  
Line vs. Poly F-P=0.352, adj. F-P=0.927



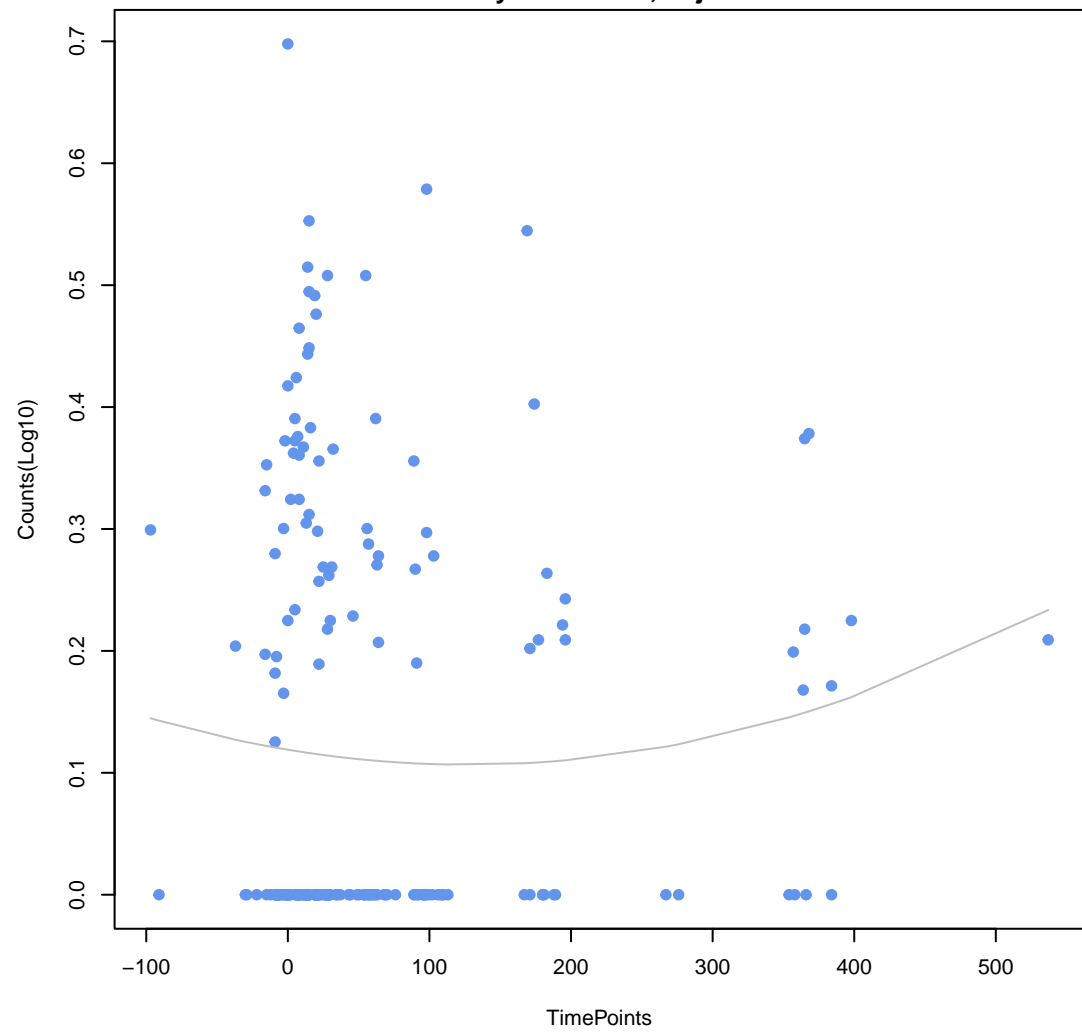
tetB(60)

ANOVA P=0.507, adj. ANOVA-P=0.822  
Line vs. Poly F-P=0.354, adj. F-P=0.927



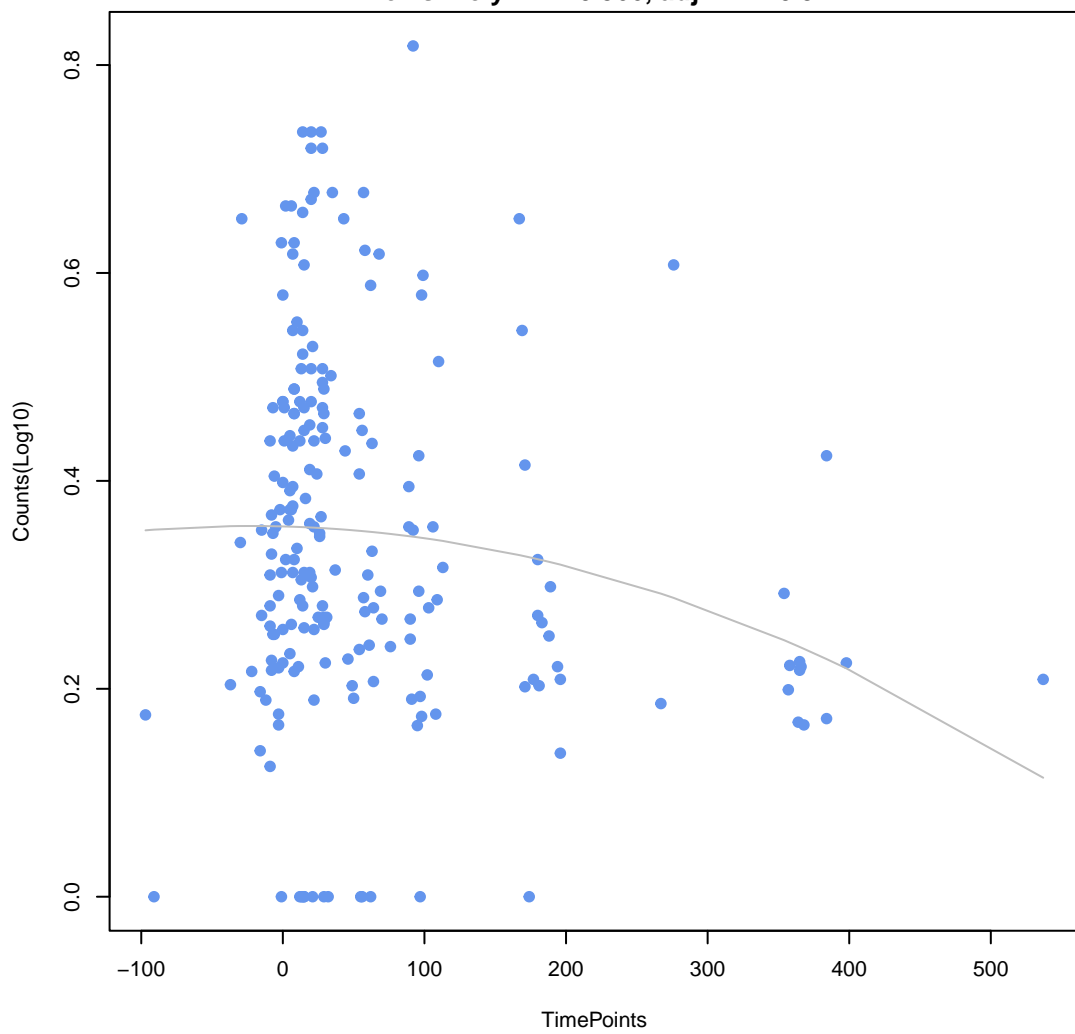
mdtE

ANOVA P=0.564, adj. ANOVA-P=0.822  
Line vs. Poly F-P=0.361, adj. F-P=0.927

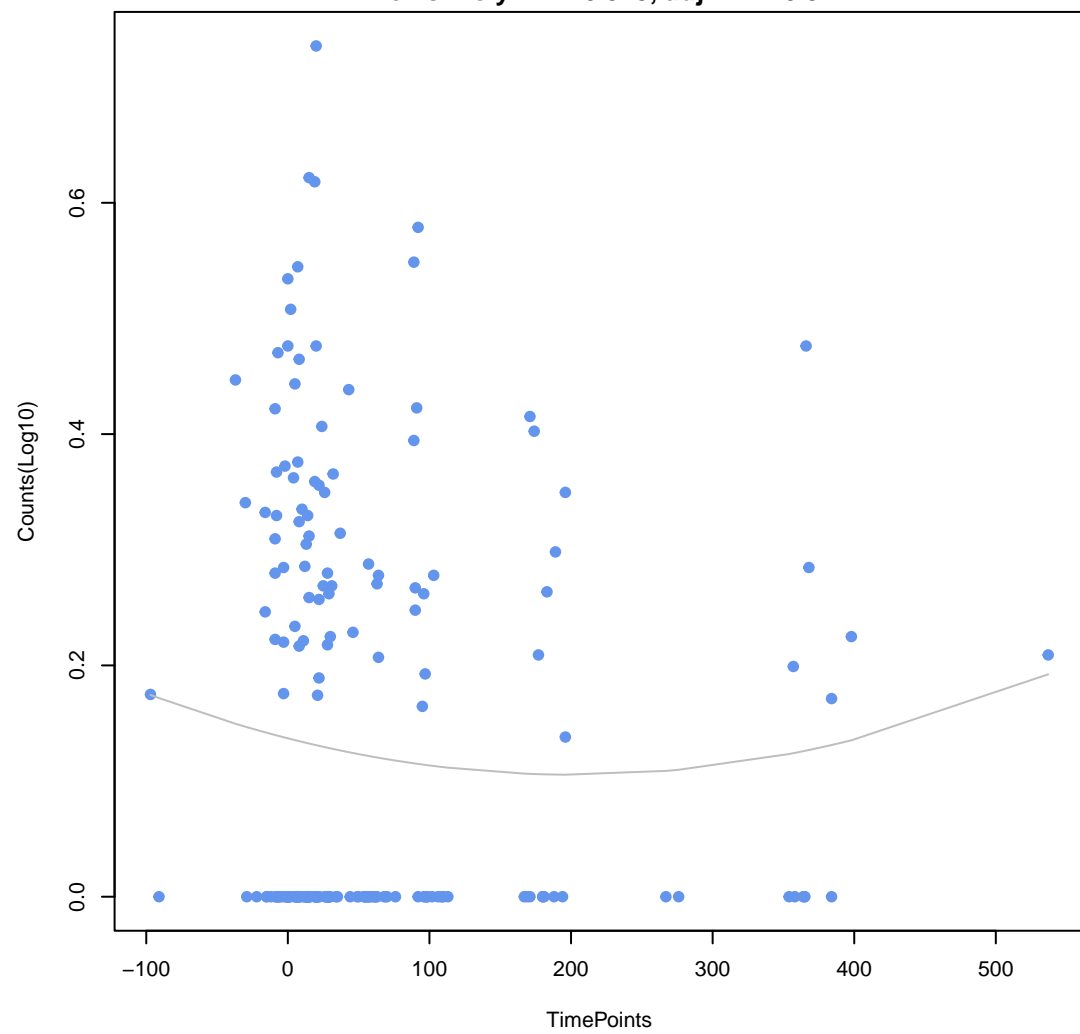


**ErmB**

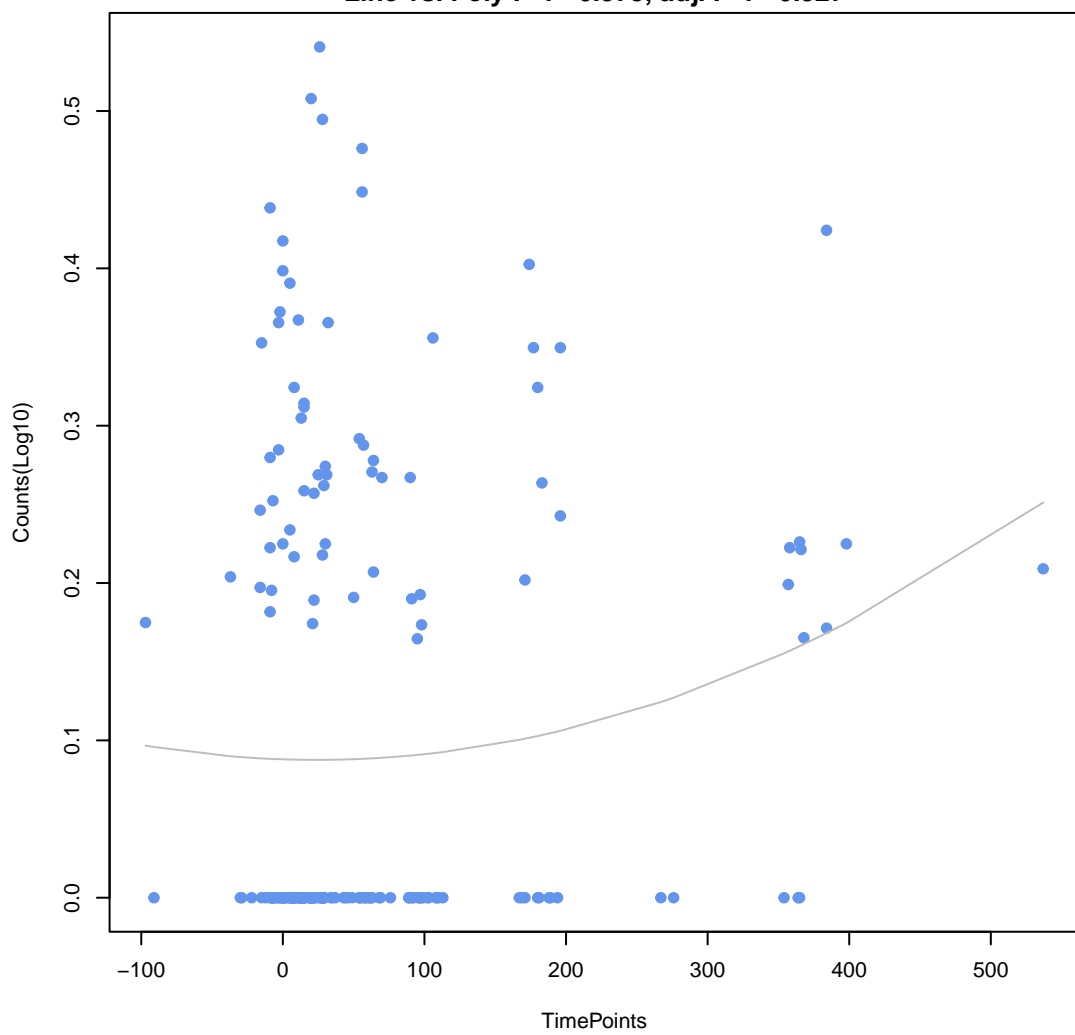
ANOVA P=0.0351, adj. ANOVA-P=0.516  
Line vs. Poly F-P=0.366, adj. F-P=0.927

**emrY**

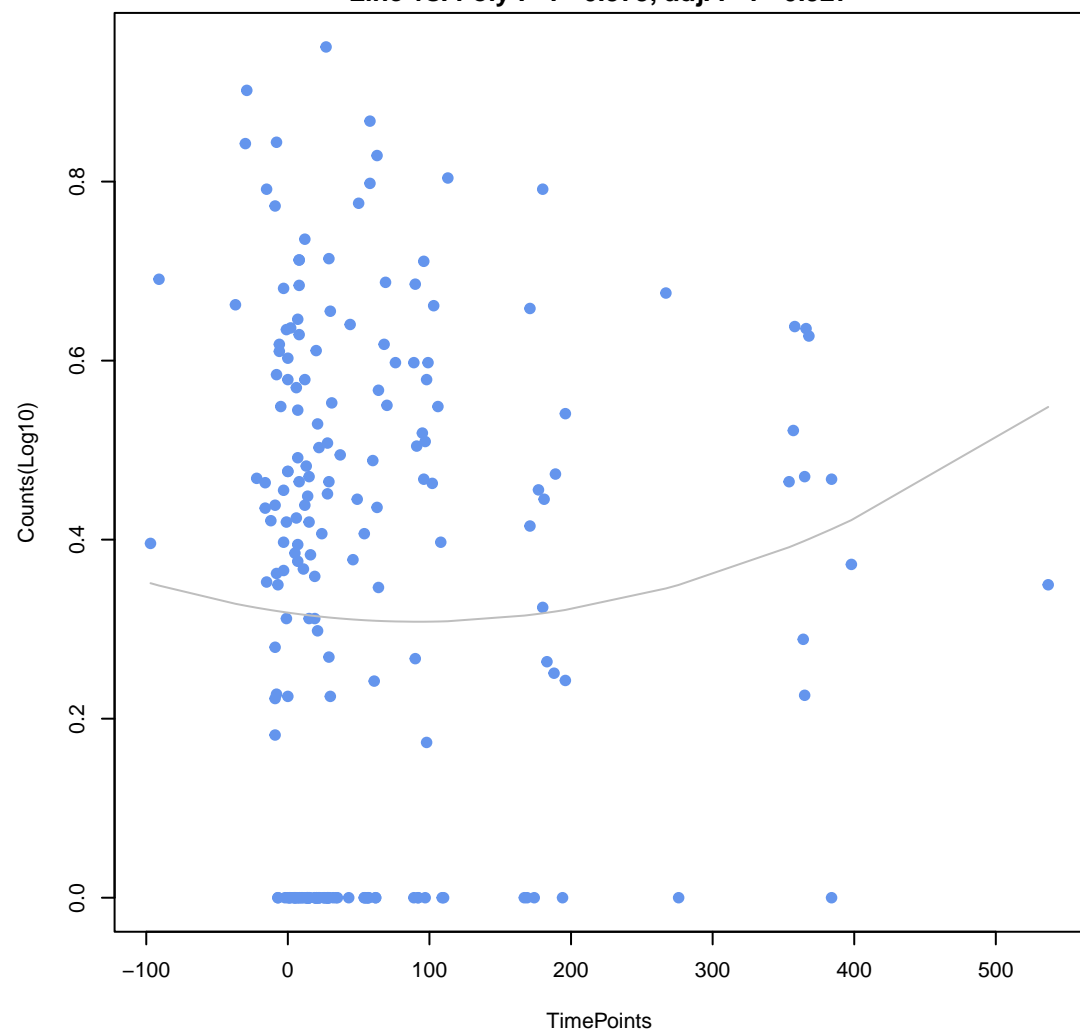
ANOVA P=0.628, adj. ANOVA-P=0.85  
Line vs. Poly F-P=0.373, adj. F-P=0.927

**AcrS**

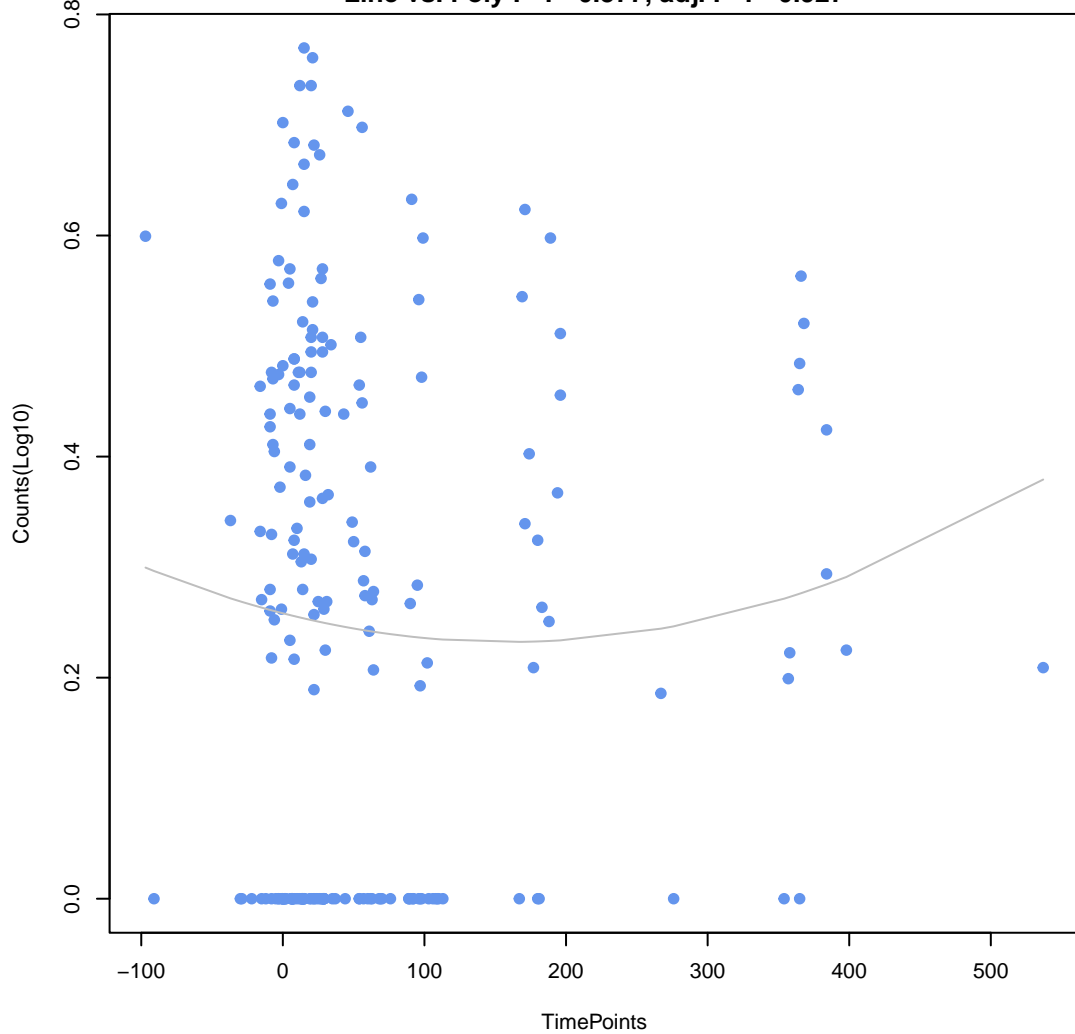
ANOVA P=0.129, adj. ANOVA-P=0.691  
Line vs. Poly F-P=0.373, adj. F-P=0.927

**vanI**

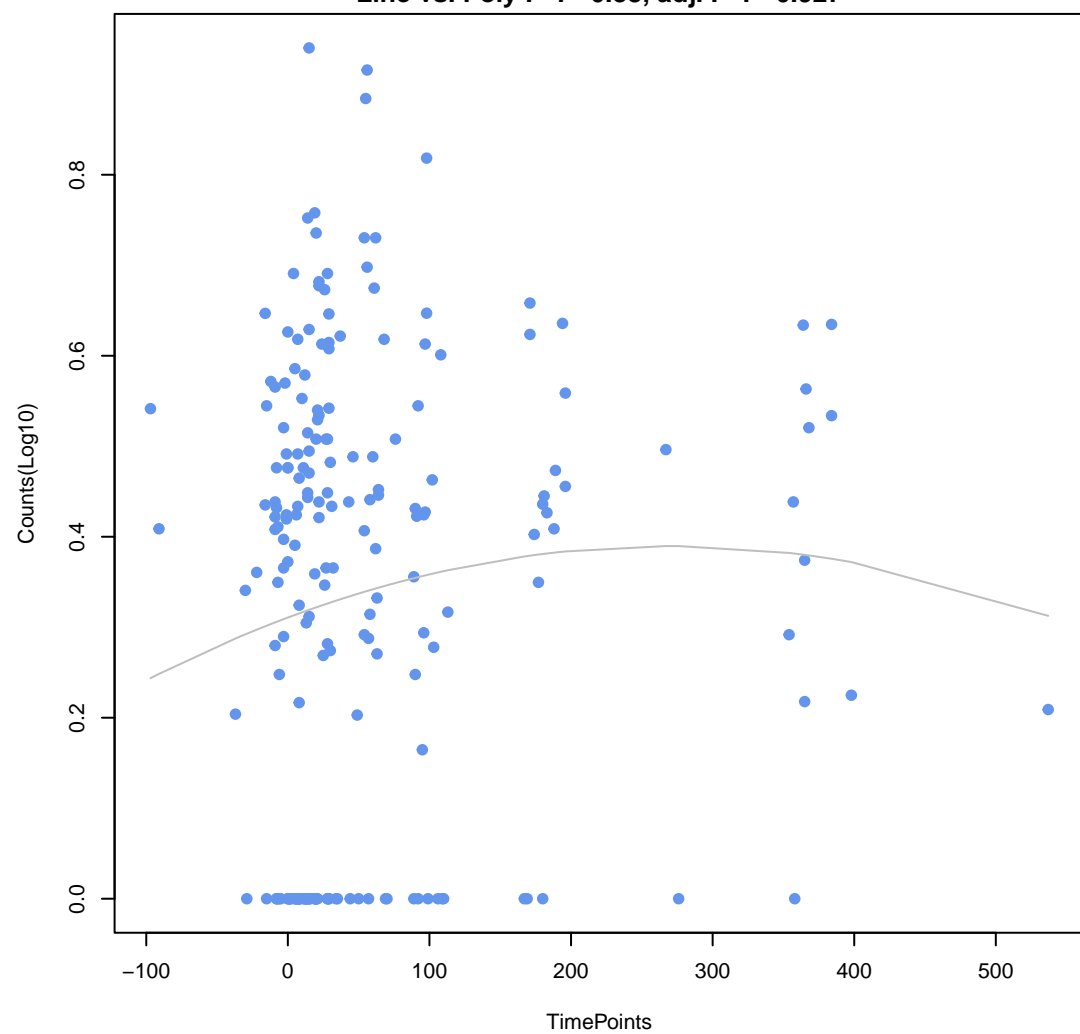
ANOVA P=0.415, adj. ANOVA-P=0.809  
Line vs. Poly F-P=0.373, adj. F-P=0.927

**evgS**

ANOVA P=0.67, adj. ANOVA-P=0.861  
Line vs. Poly F-P=0.377, adj. F-P=0.927

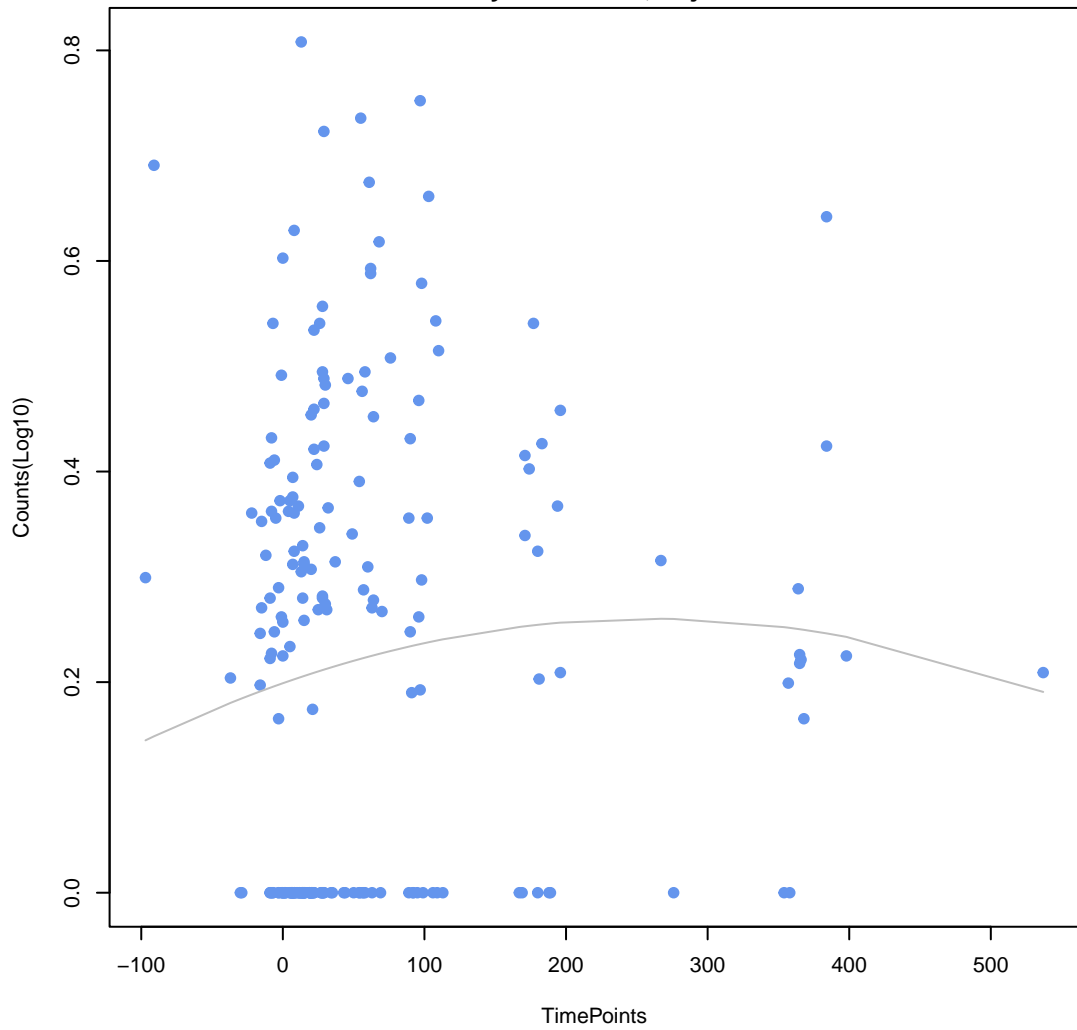
**acrD**

ANOVA P=0.333, adj. ANOVA-P=0.809  
Line vs. Poly F-P=0.38, adj. F-P=0.927



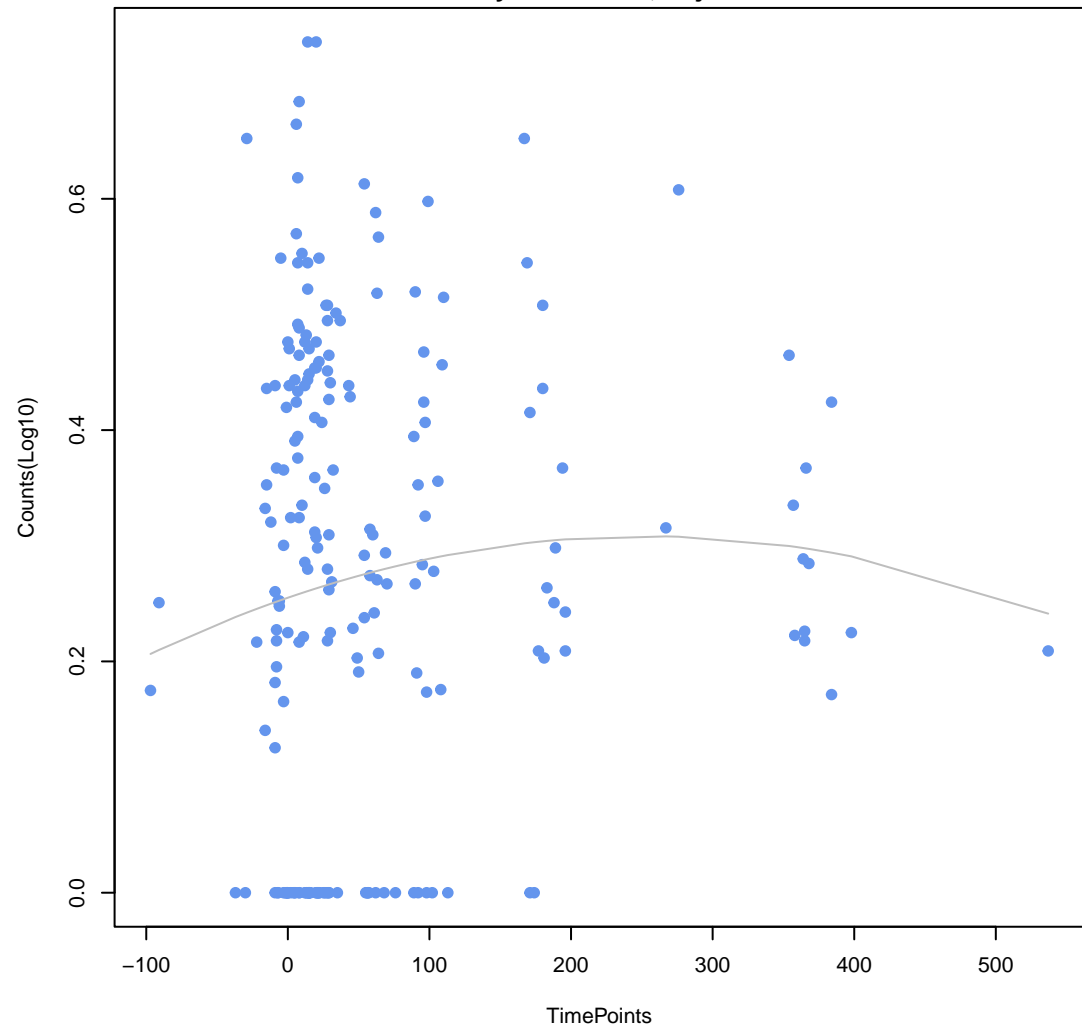
**CRP**

ANOVA P=0.401, adj. ANOVA-P=0.809  
Line vs. Poly F-P=0.392, adj. F-P=0.927



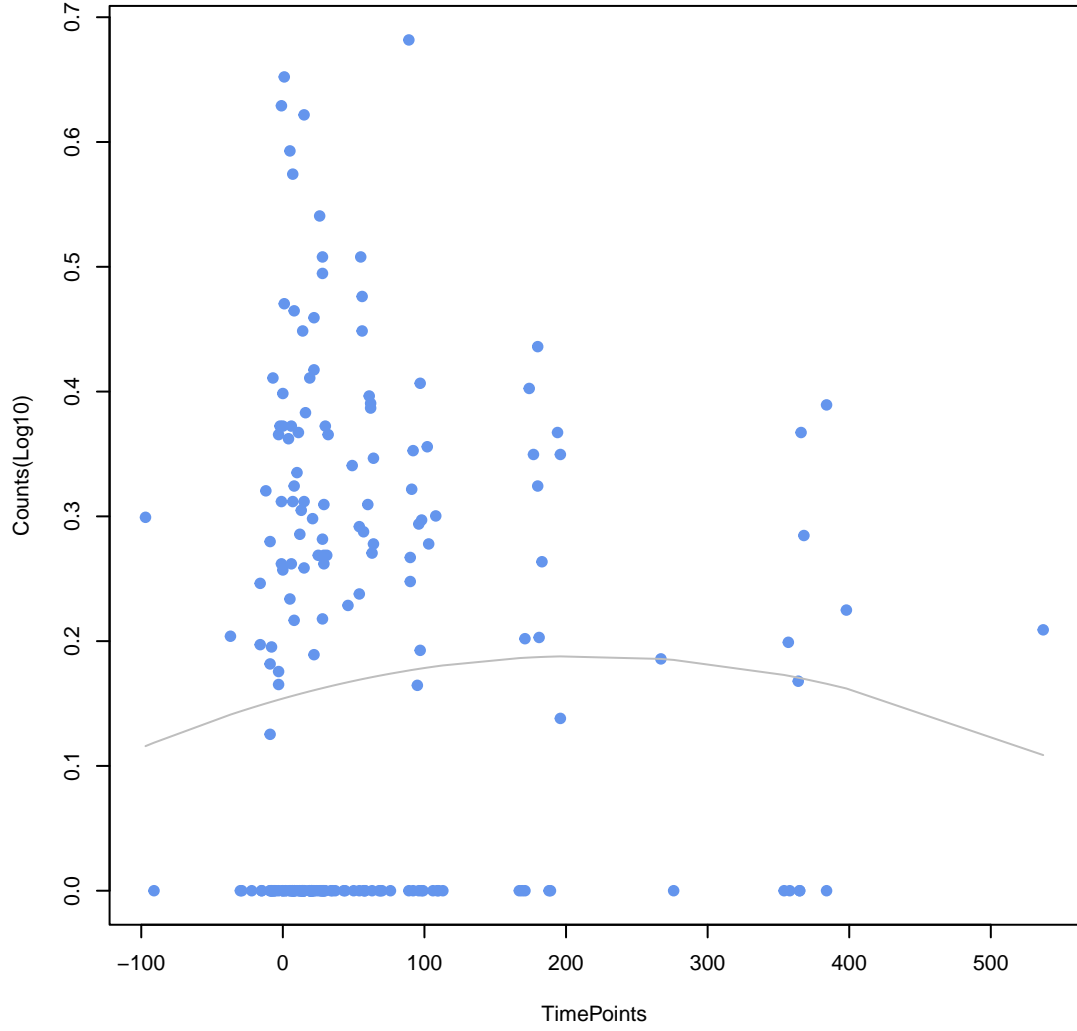
**SAT-4**

ANOVA P=0.449, adj. ANOVA-P=0.809  
Line vs. Poly F-P=0.401, adj. F-P=0.927



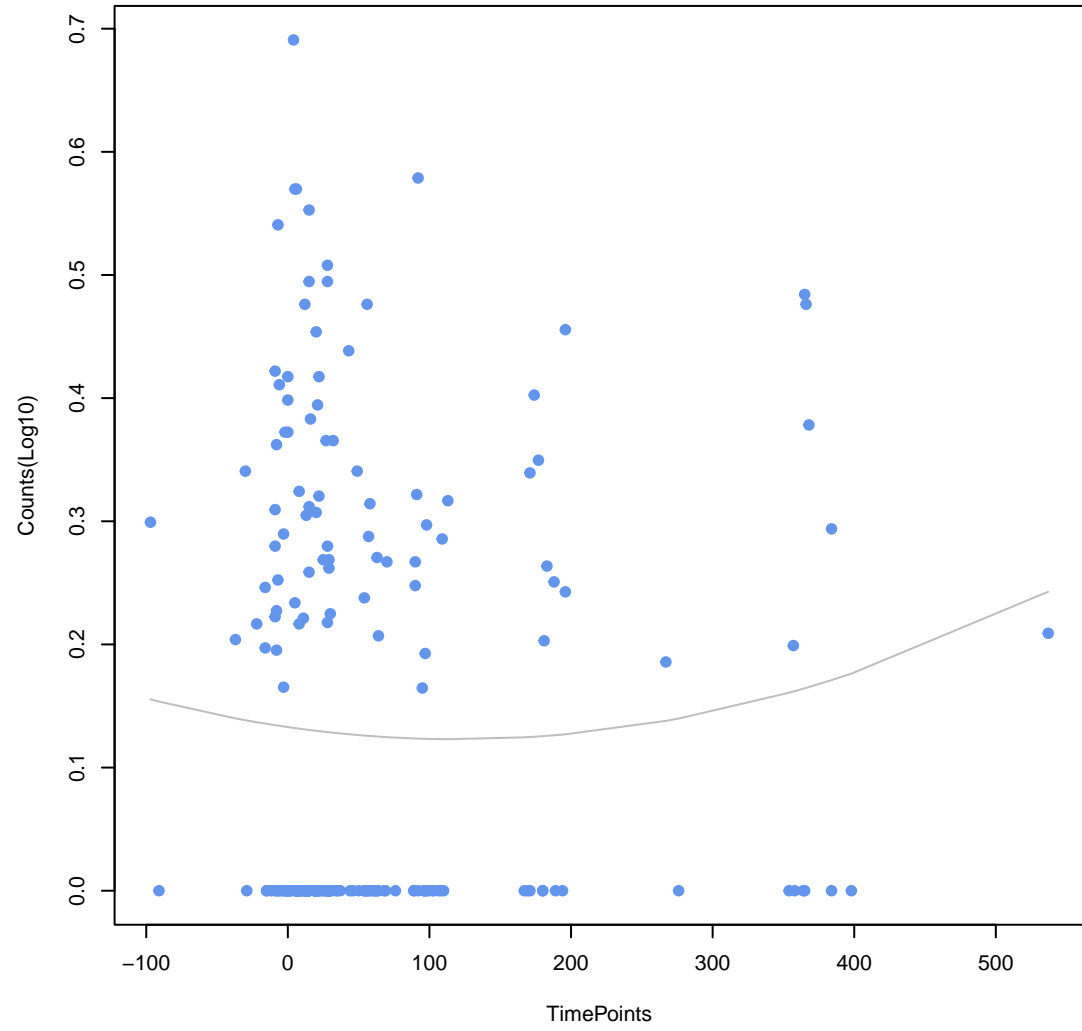
**emrA**

ANOVA P=0.629, adj. ANOVA-P=0.85  
Line vs. Poly F-P=0.402, adj. F-P=0.927



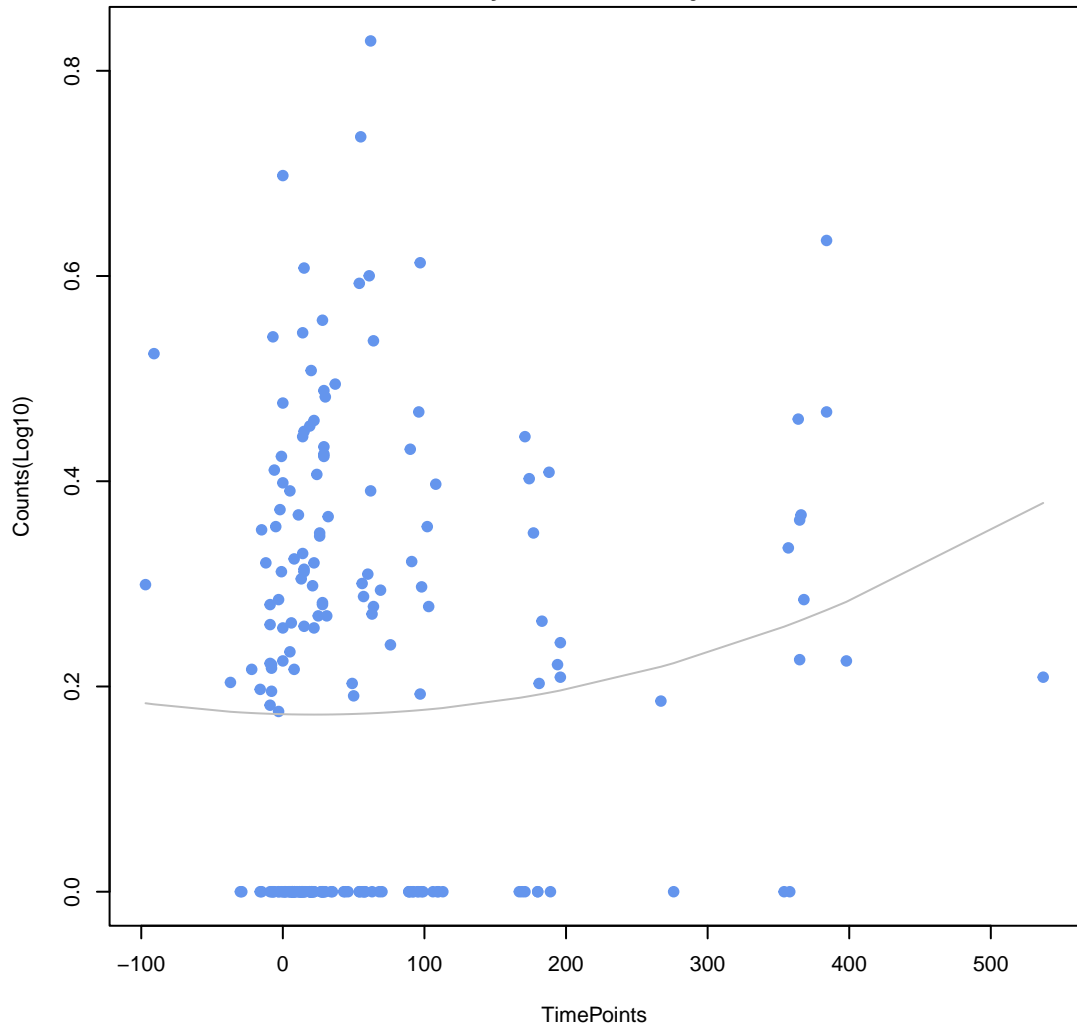
**eptA**

ANOVA P=0.619, adj. ANOVA-P=0.85  
Line vs. Poly F-P=0.426, adj. F-P=0.927



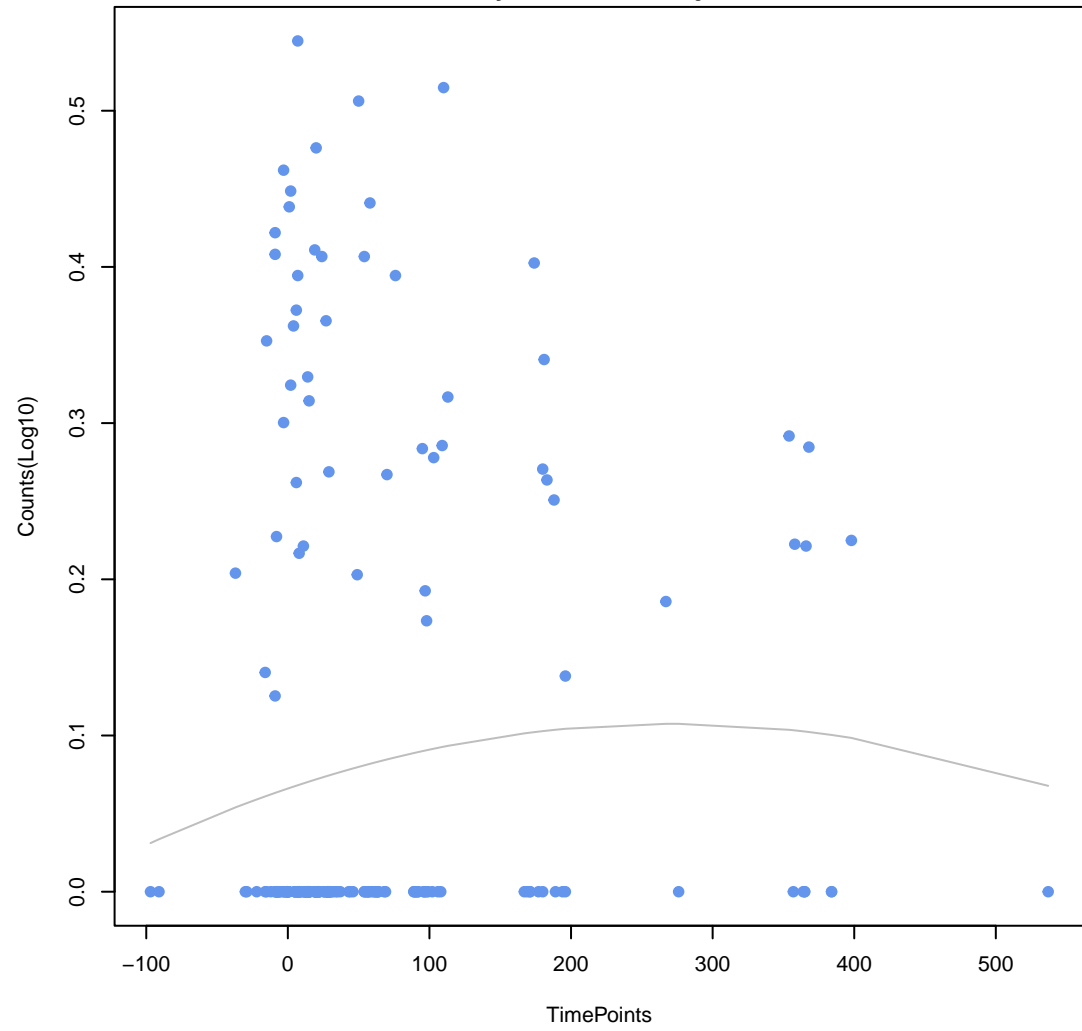
**baeR**

ANOVA P=0.189, adj. ANOVA-P=0.779  
Line vs. Poly F-P=0.426, adj. F-P=0.927



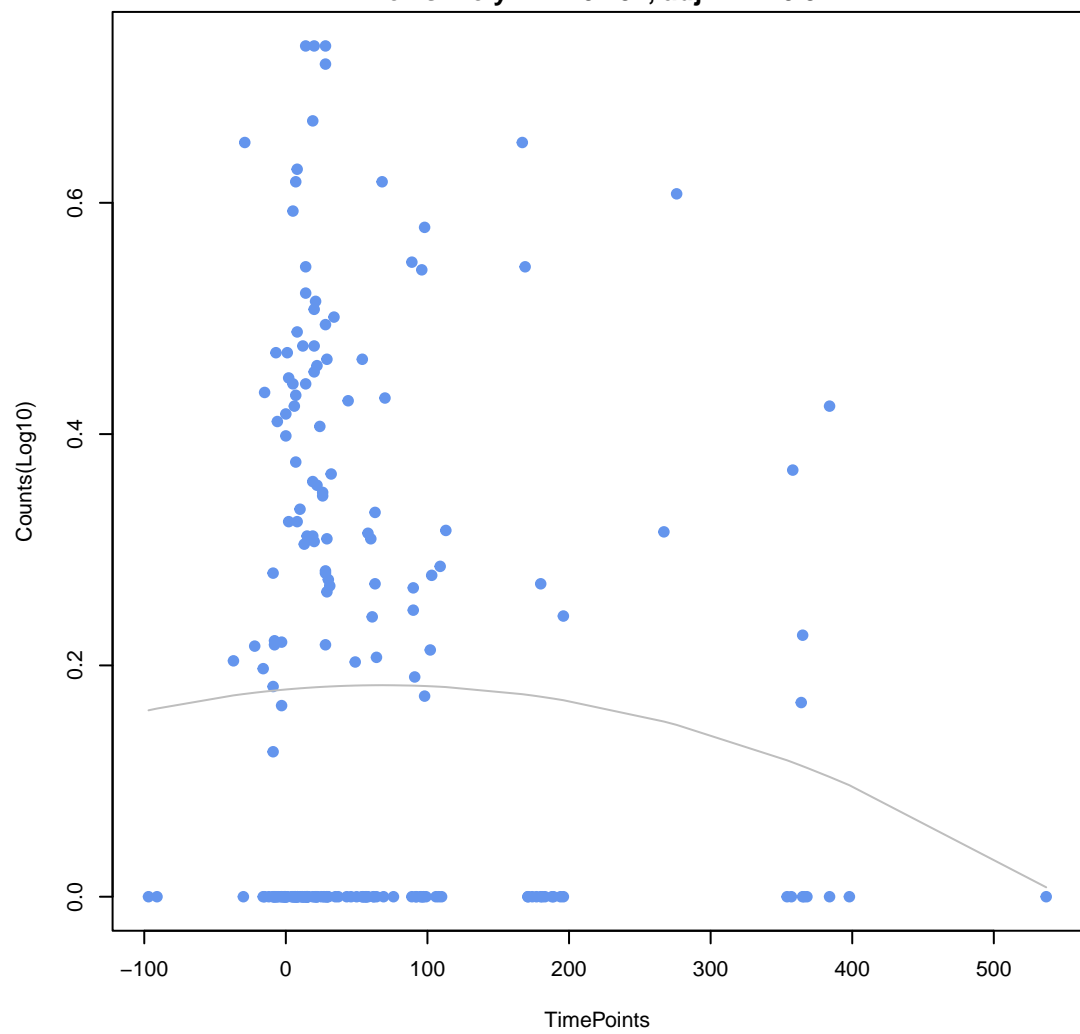
**mtrD**

ANOVA P=0.4, adj. ANOVA-P=0.809  
Line vs. Poly F-P=0.427, adj. F-P=0.927

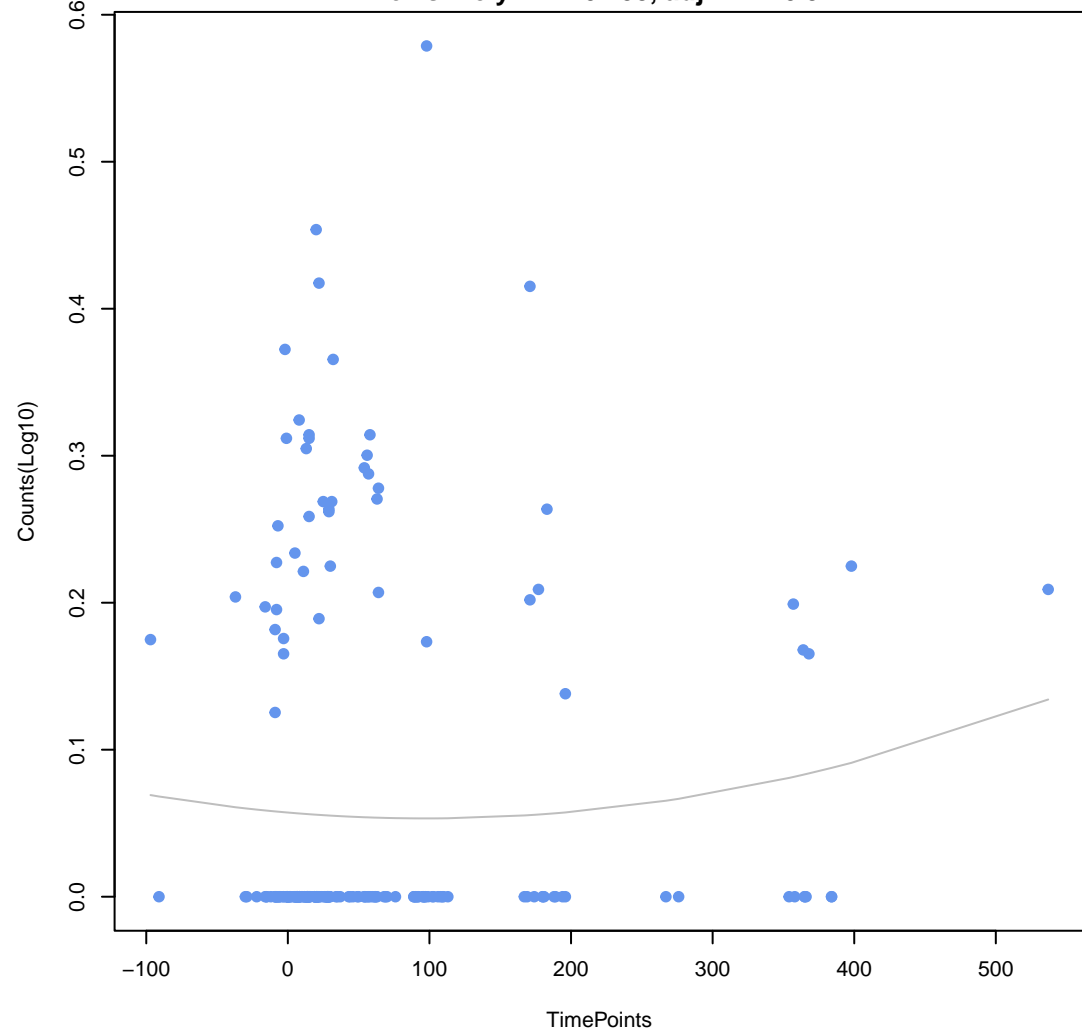




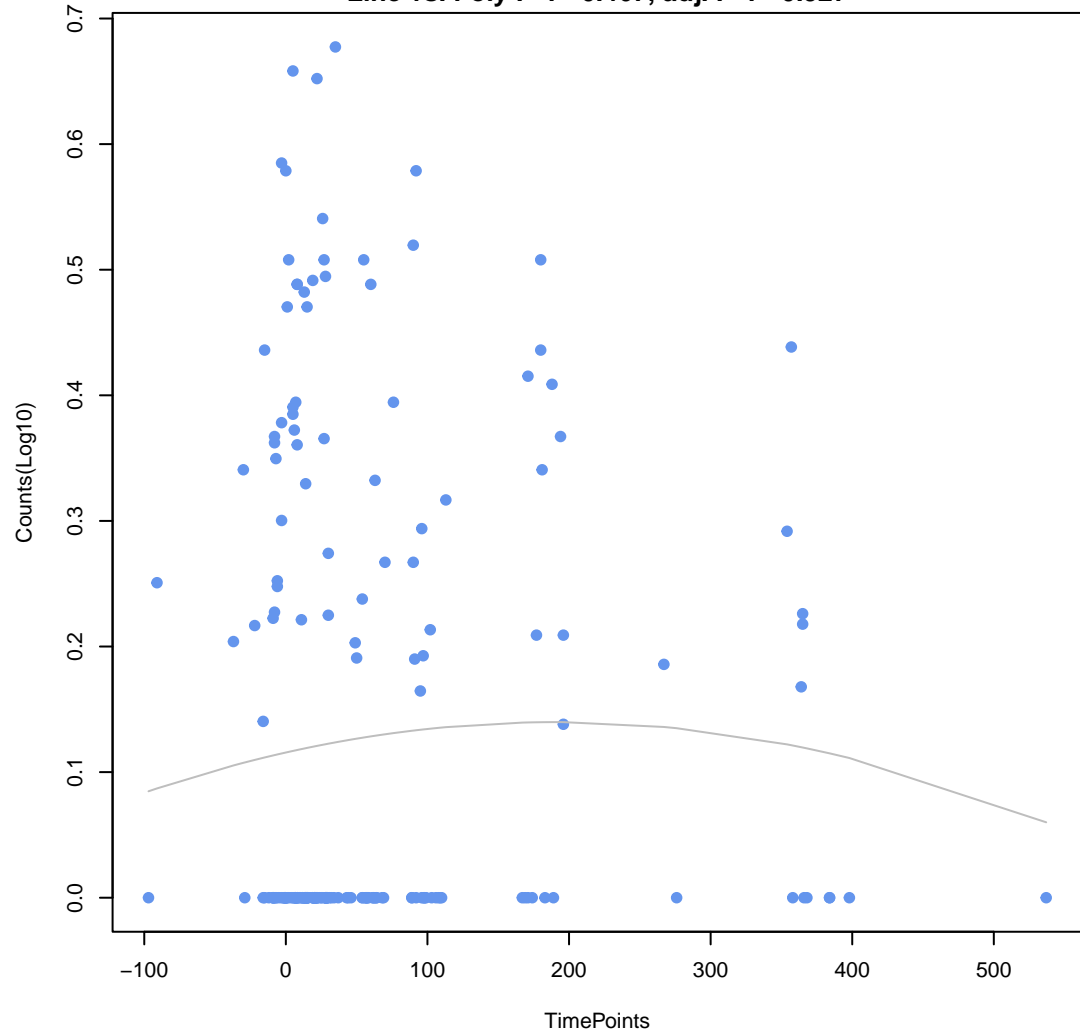
**vanX gene in vanA cluster**  
ANOVA P=0.425, adj. ANOVA-P=0.809  
Line vs. Poly F-P=0.454, adj. F-P=0.927



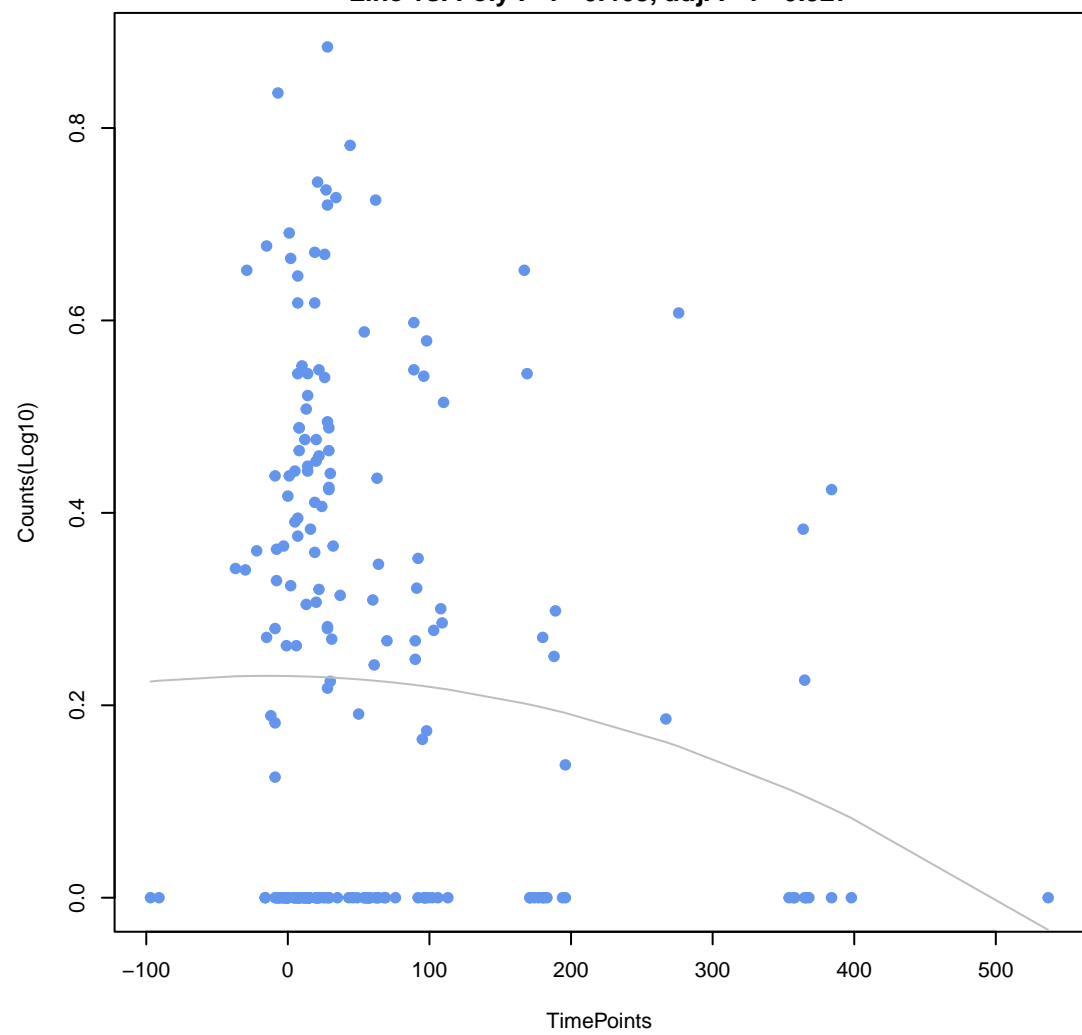
**gadW**  
ANOVA P=0.568, adj. ANOVA-P=0.822  
Line vs. Poly F-P=0.458, adj. F-P=0.927



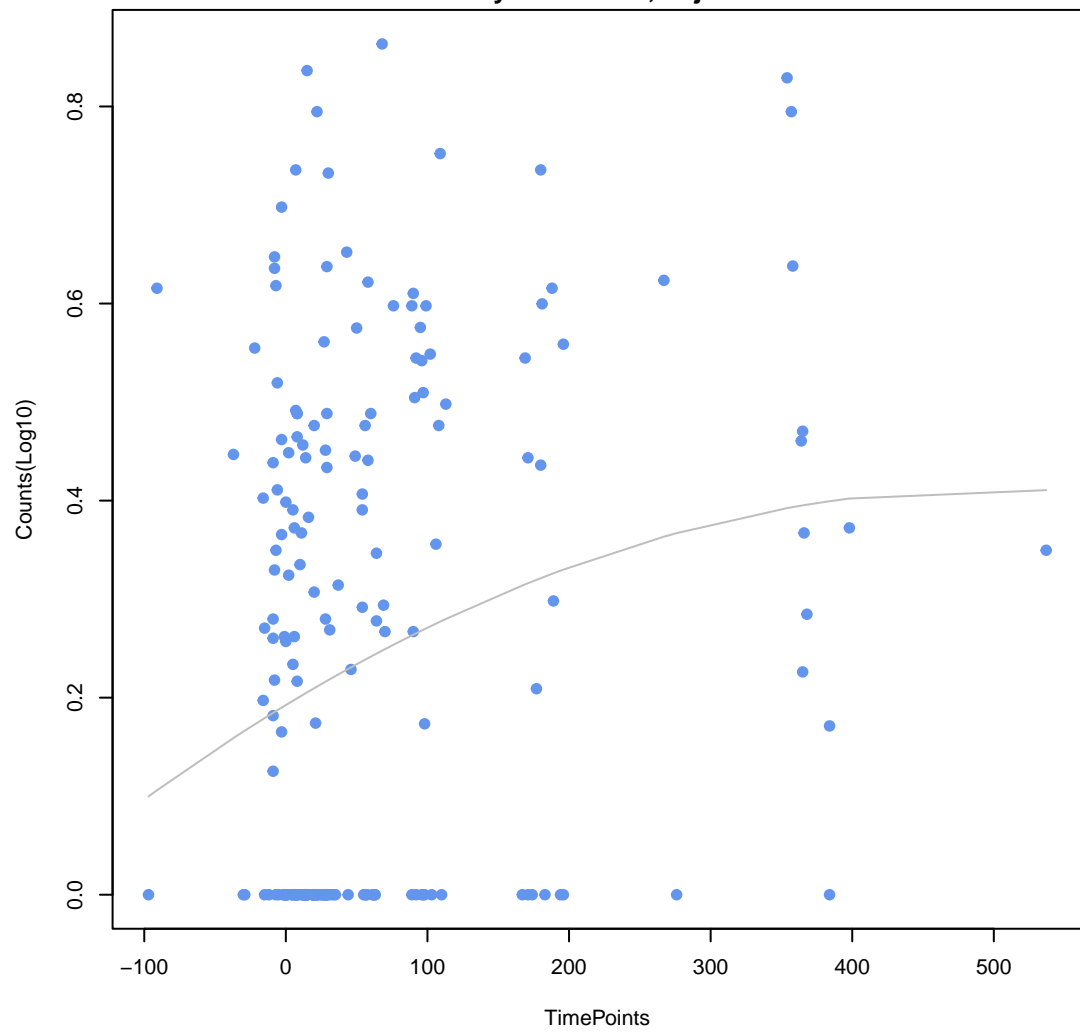
**tet(W/32/O)**  
ANOVA P=0.754, adj. ANOVA-P=0.908  
Line vs. Poly F-P=0.467, adj. F-P=0.927



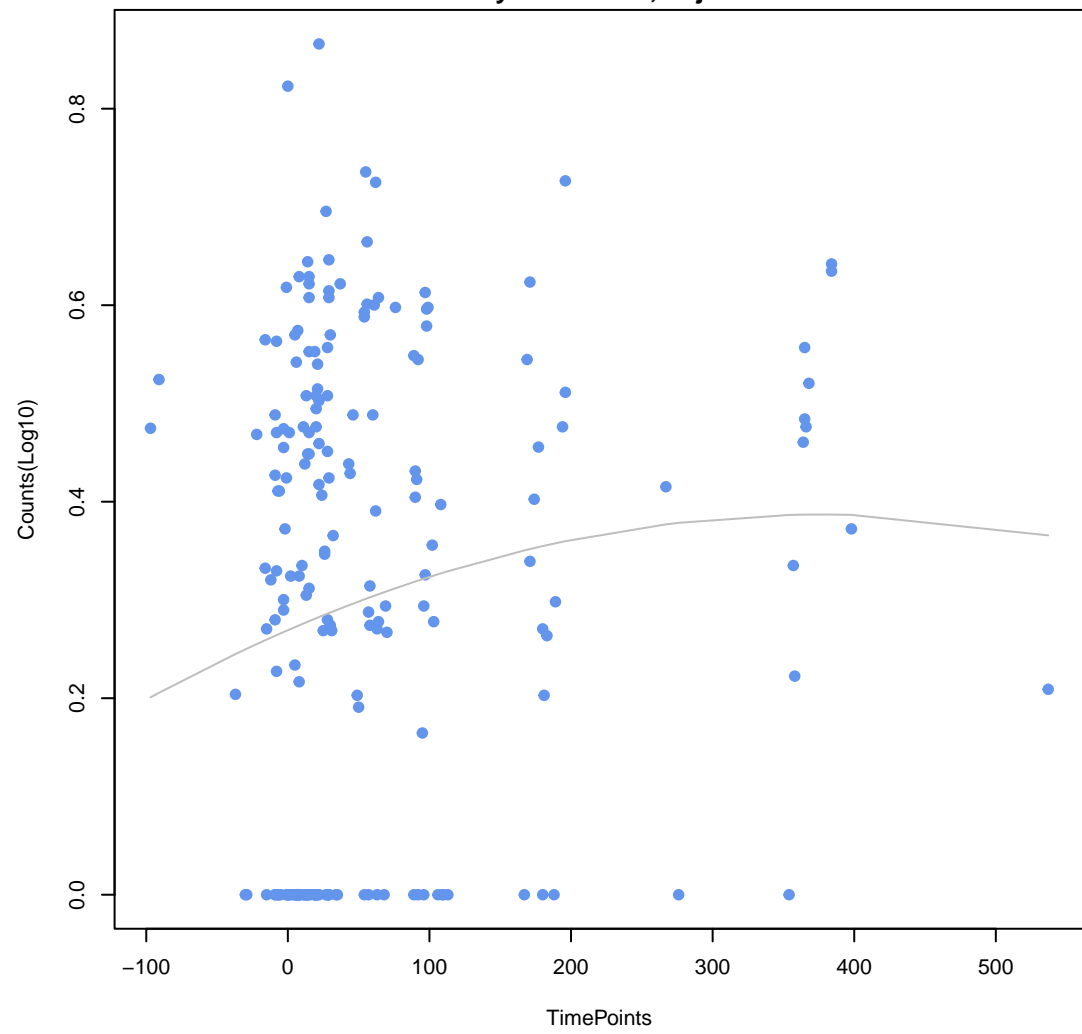
**vanH gene in vanA cluster**  
ANOVA P=0.134, adj. ANOVA-P=0.691  
Line vs. Poly F-P=0.468, adj. F-P=0.927



**nimJ**  
ANOVA P=0.0041, adj. ANOVA-P=0.221  
Line vs. Poly F-P=0.475, adj. F-P=0.927

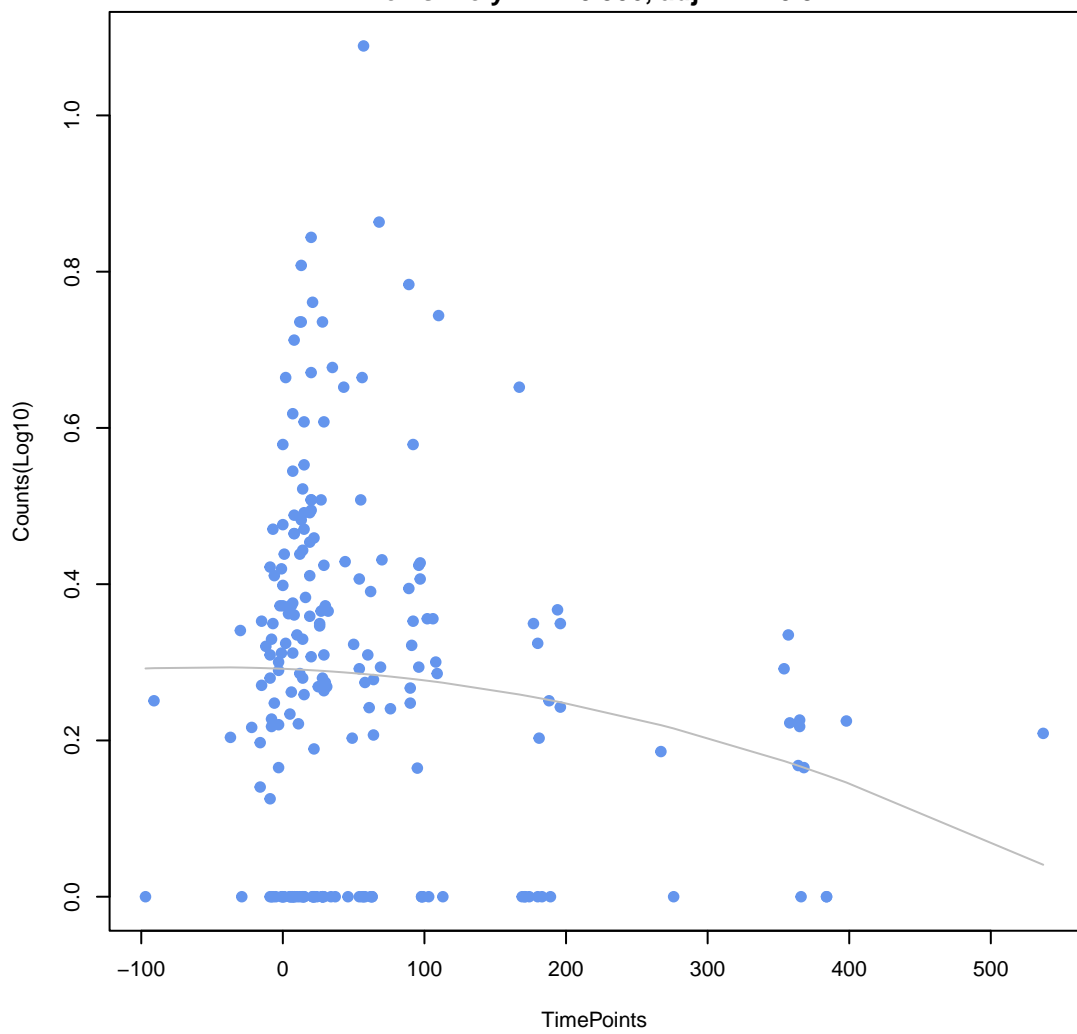


**mdtB**  
ANOVA P=0.109, adj. ANOVA-P=0.653  
Line vs. Poly F-P=0.483, adj. F-P=0.927

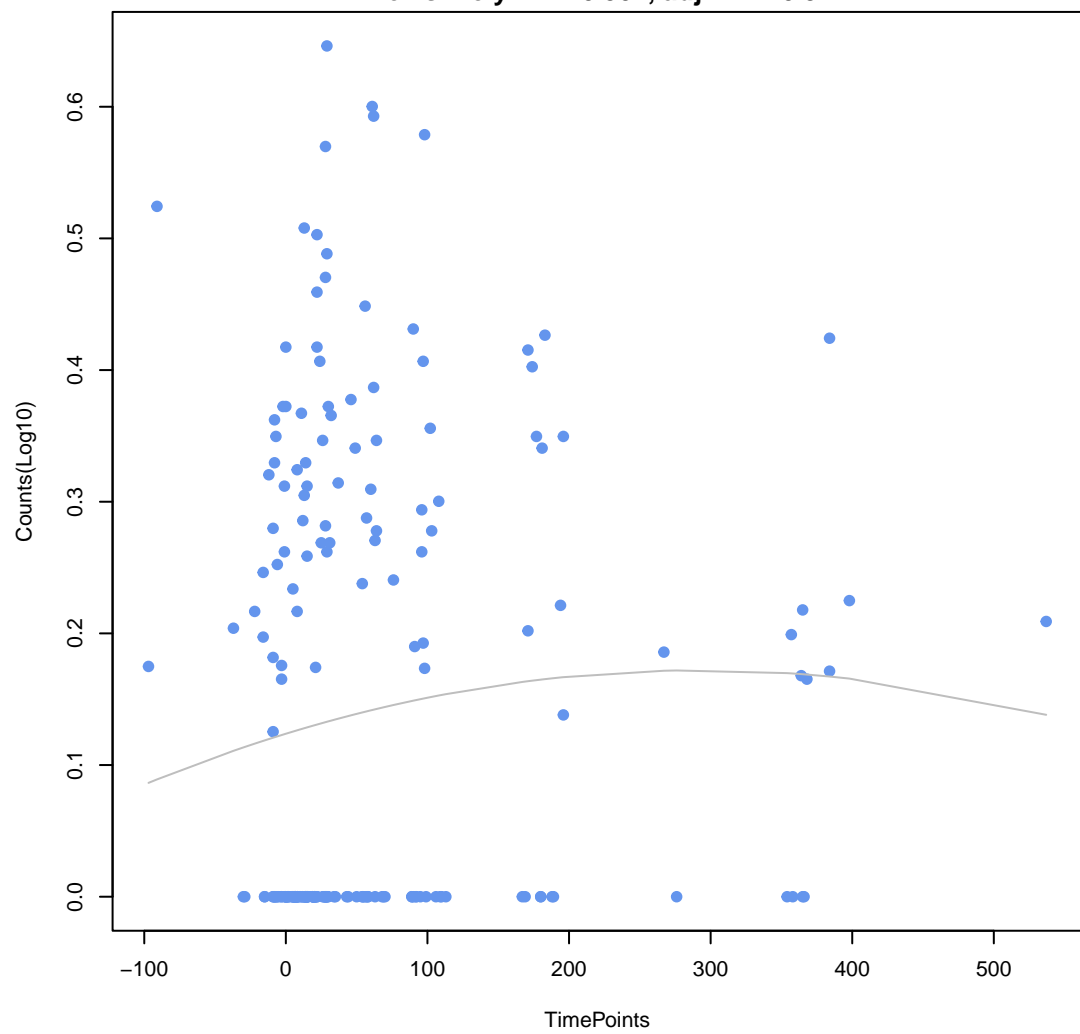


**ErmF**

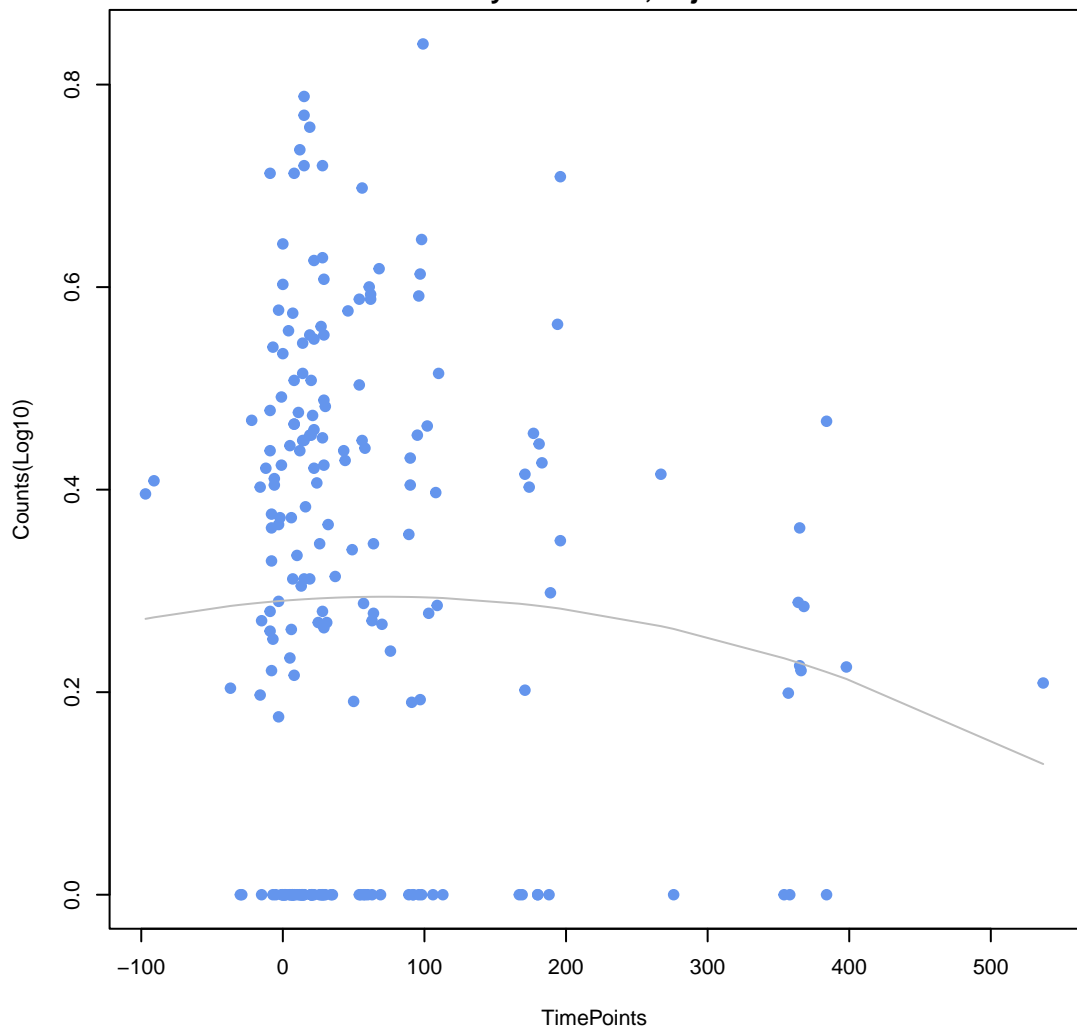
ANOVA P=0.0985, adj. ANOVA-P=0.626  
Line vs. Poly F-P=0.506, adj. F-P=0.927

**emrR**

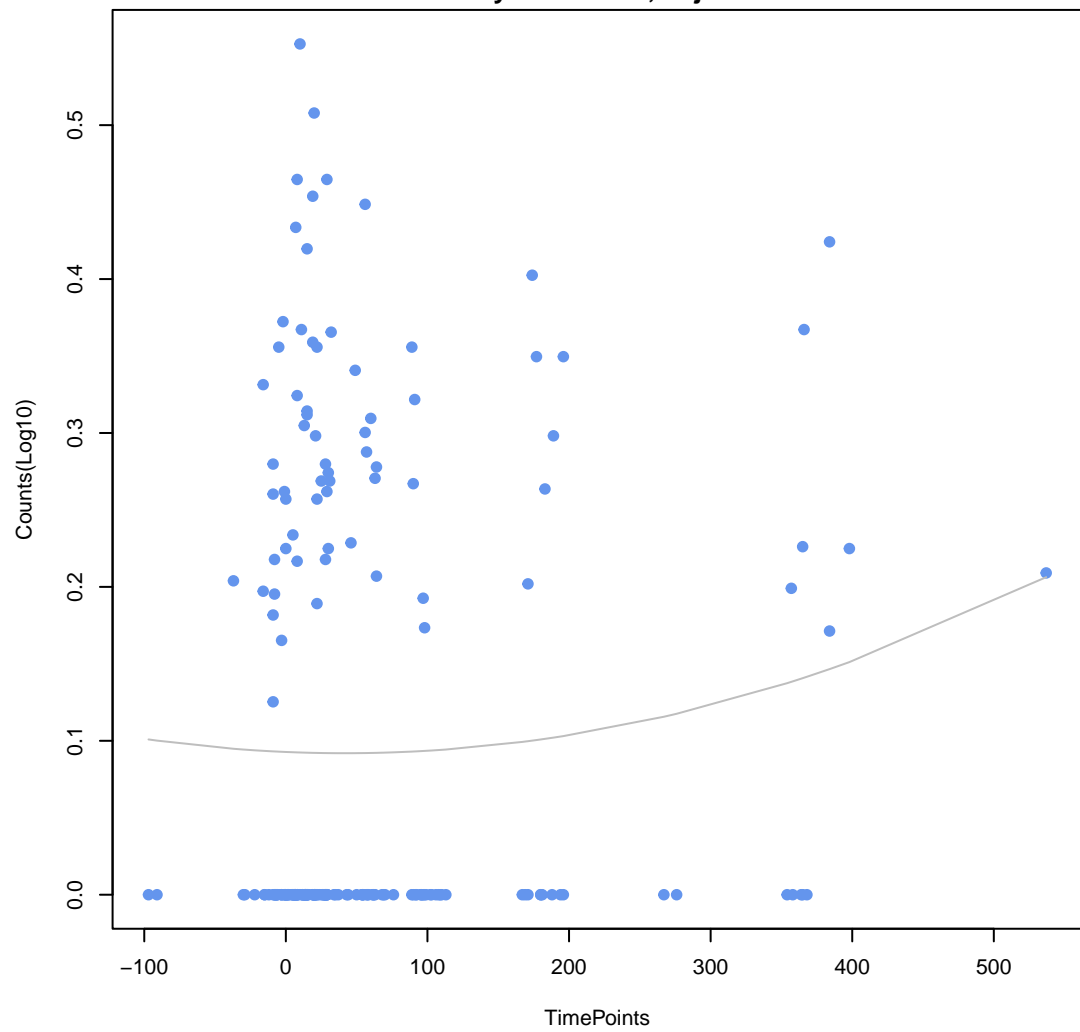
ANOVA P=0.435, adj. ANOVA-P=0.809  
Line vs. Poly F-P=0.507, adj. F-P=0.927

**mdtC**

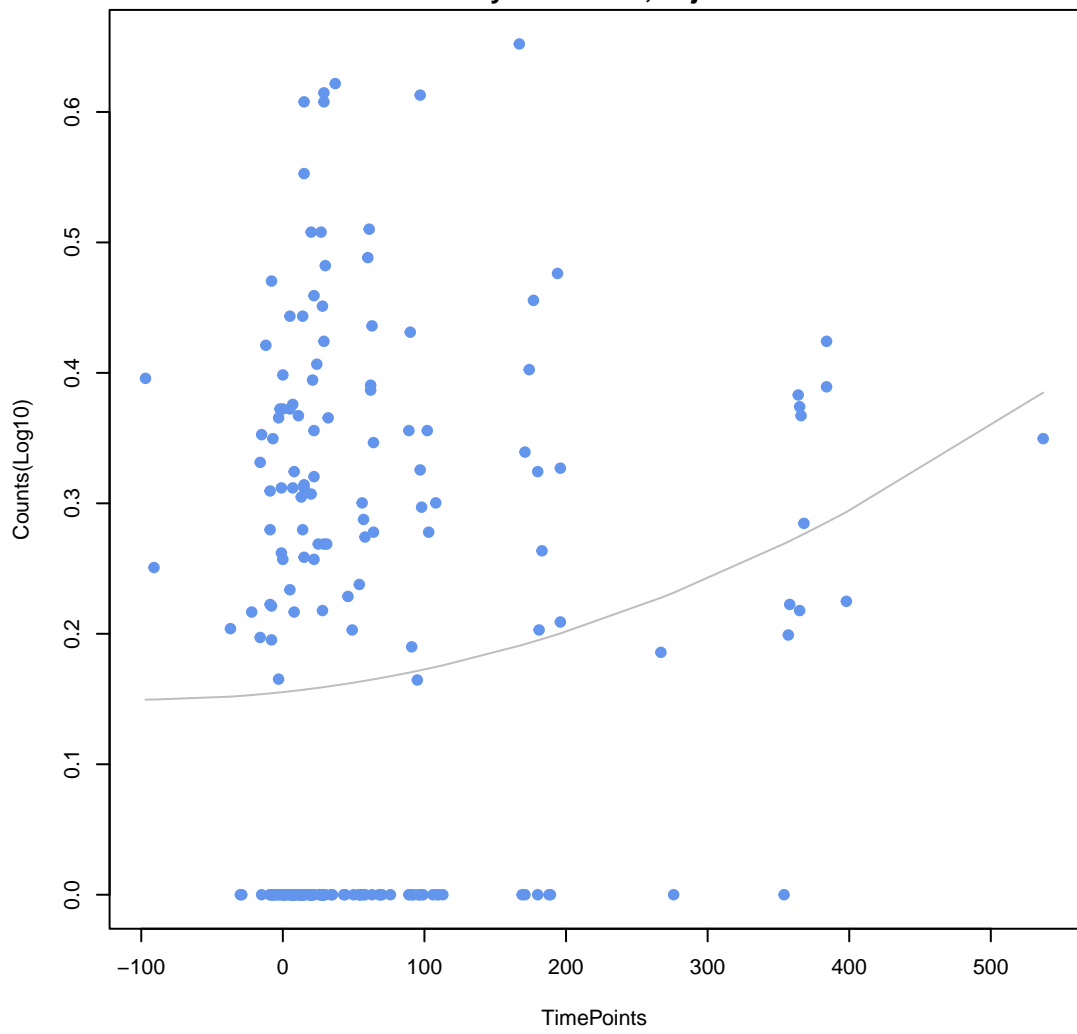
ANOVA P=0.532, adj. ANOVA-P=0.822  
Line vs. Poly F-P=0.509, adj. F-P=0.927

**gadX**

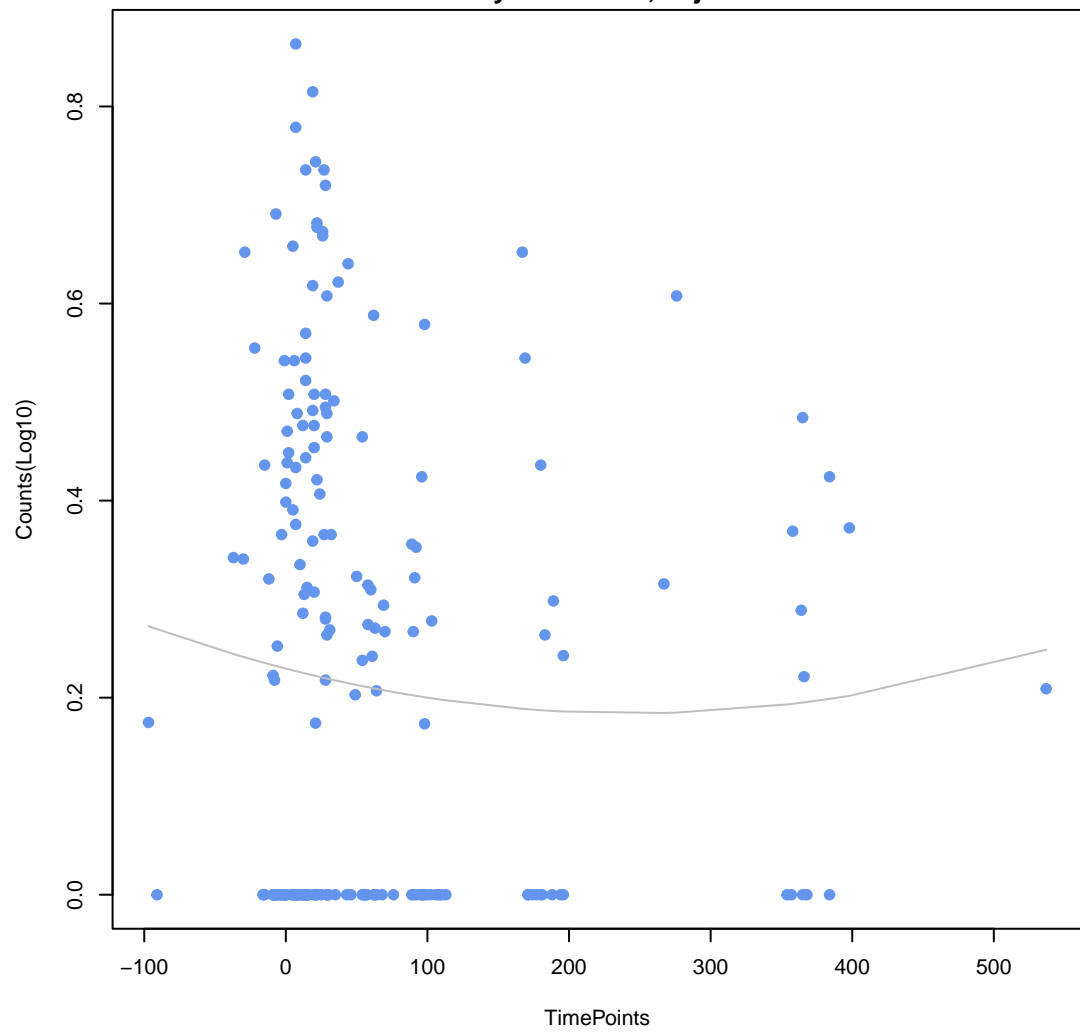
ANOVA P=0.41, adj. ANOVA-P=0.809  
Line vs. Poly F-P=0.517, adj. F-P=0.927

**bacA**

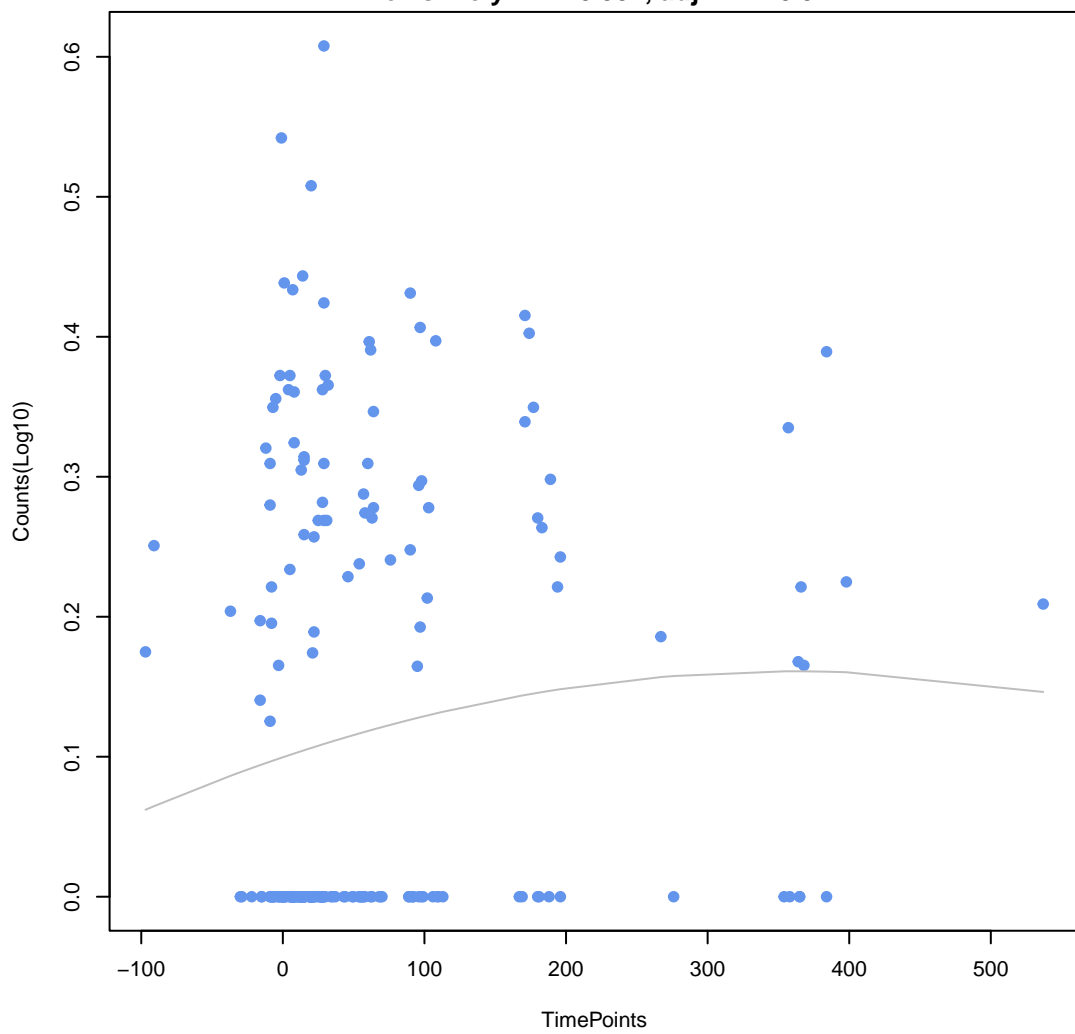
ANOVA P=0.0481, adj. ANOVA-P=0.516  
Line vs. Poly F-P=0.524, adj. F-P=0.927

**vanS gene in vanA cluster**

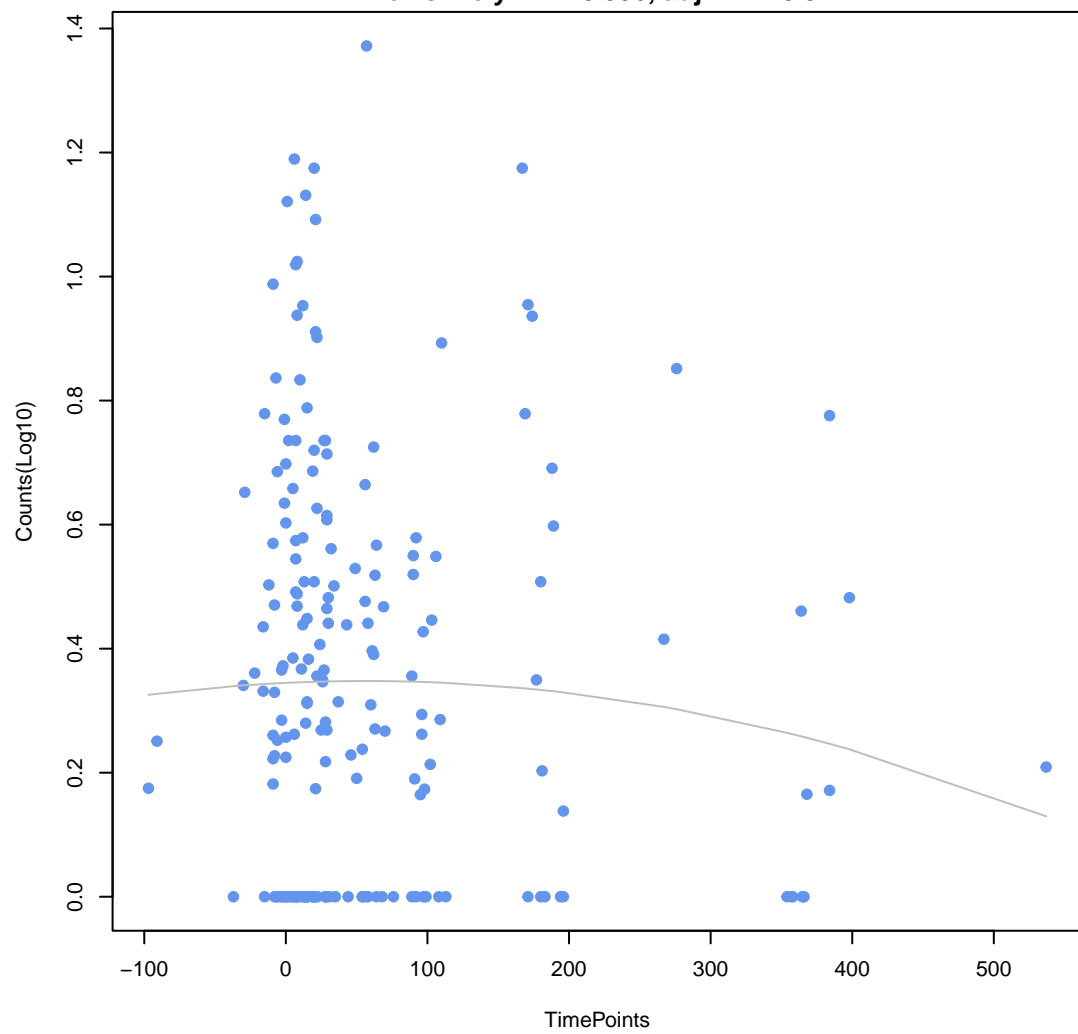
ANOVA P=0.666, adj. ANOVA-P=0.861  
Line vs. Poly F-P=0.527, adj. F-P=0.927



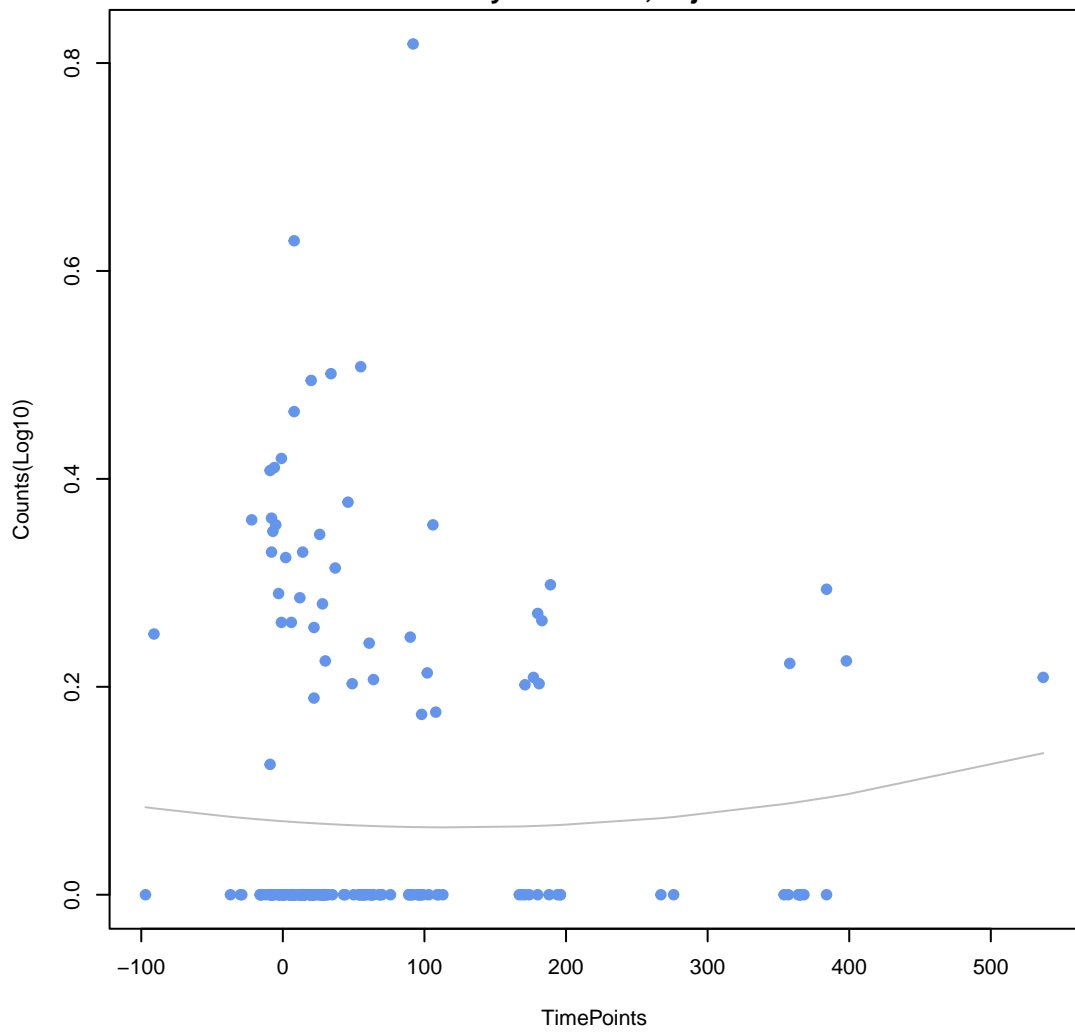
**Escherichia coli soxS with mutation conferring antibiotic resistance**  
ANOVA P=0.221, adj. ANOVA-P=0.799  
Line vs. Poly F-P=0.534, adj. F-P=0.927



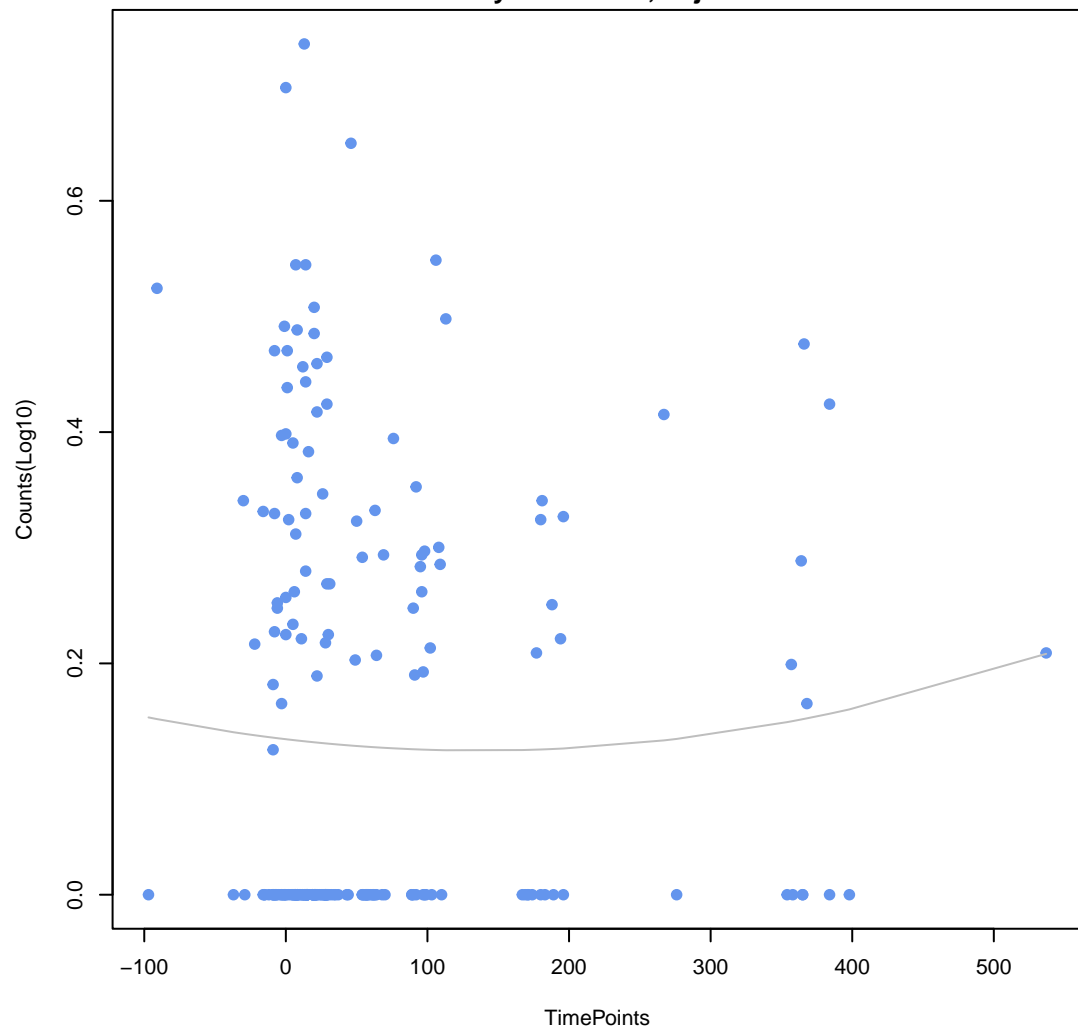
**ImrD**  
ANOVA P=0.542, adj. ANOVA-P=0.822  
Line vs. Poly F-P=0.556, adj. F-P=0.927



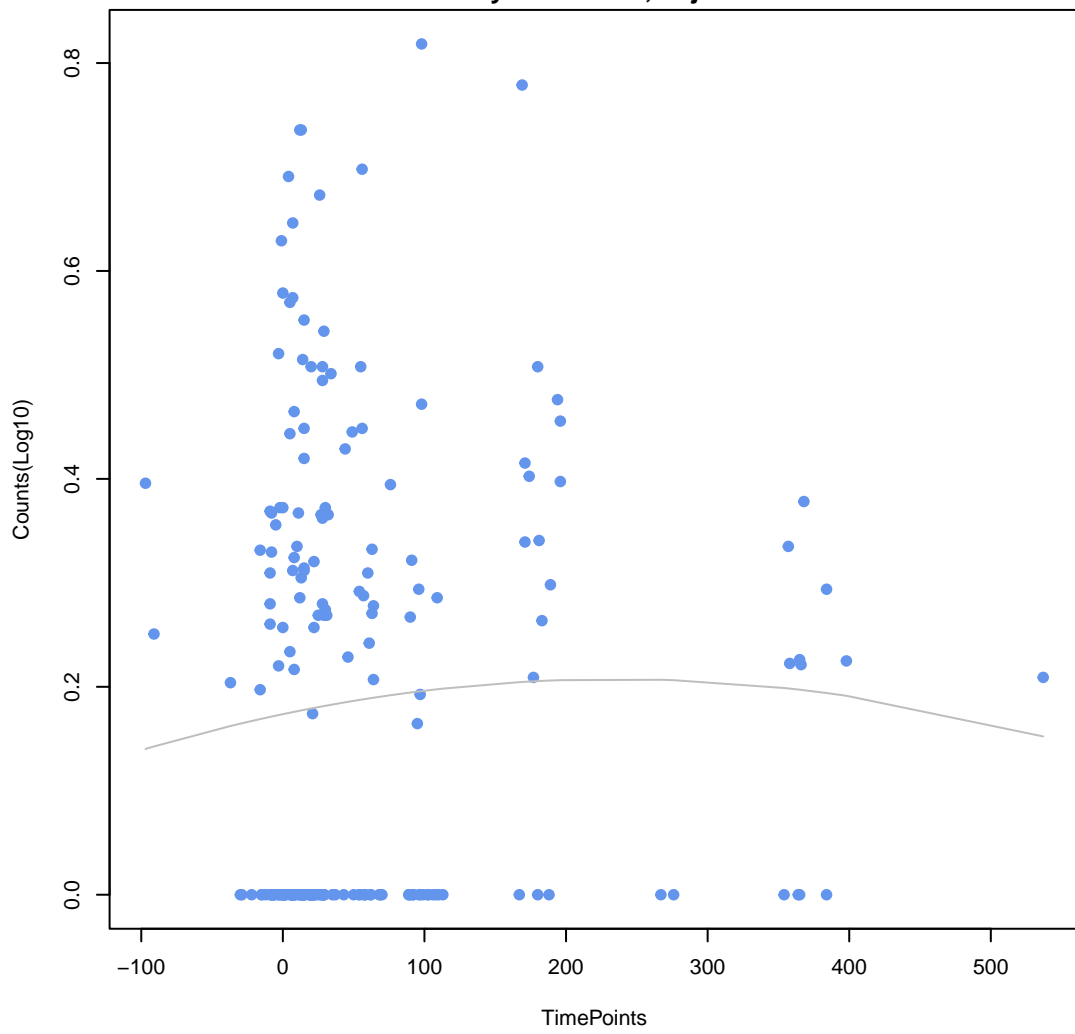
**Klebsiella pneumoniae acrA**  
ANOVA P=0.773, adj. ANOVA-P=0.908  
Line vs. Poly F-P=0.559, adj. F-P=0.927



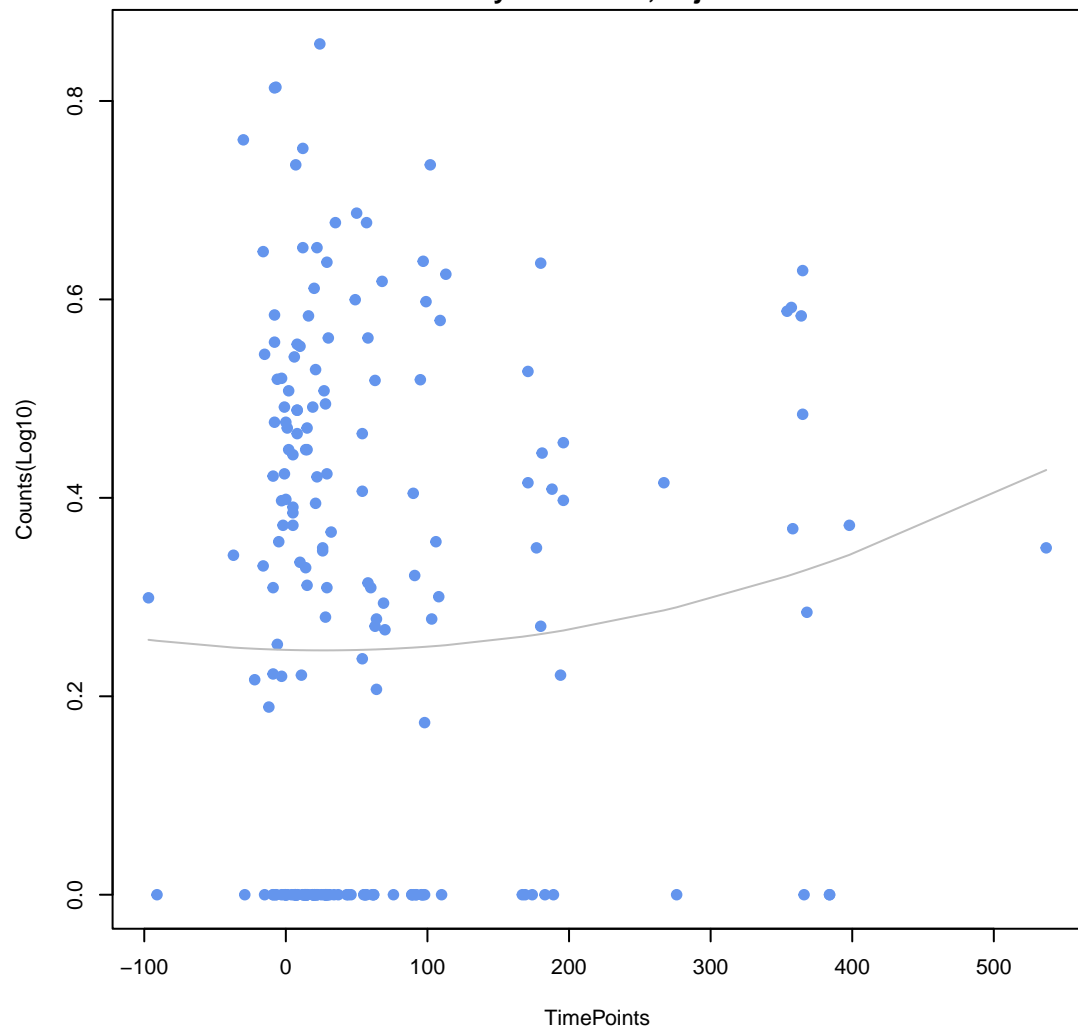
**MuxC**  
ANOVA P=0.813, adj. ANOVA-P=0.908  
Line vs. Poly F-P=0.561, adj. F-P=0.927



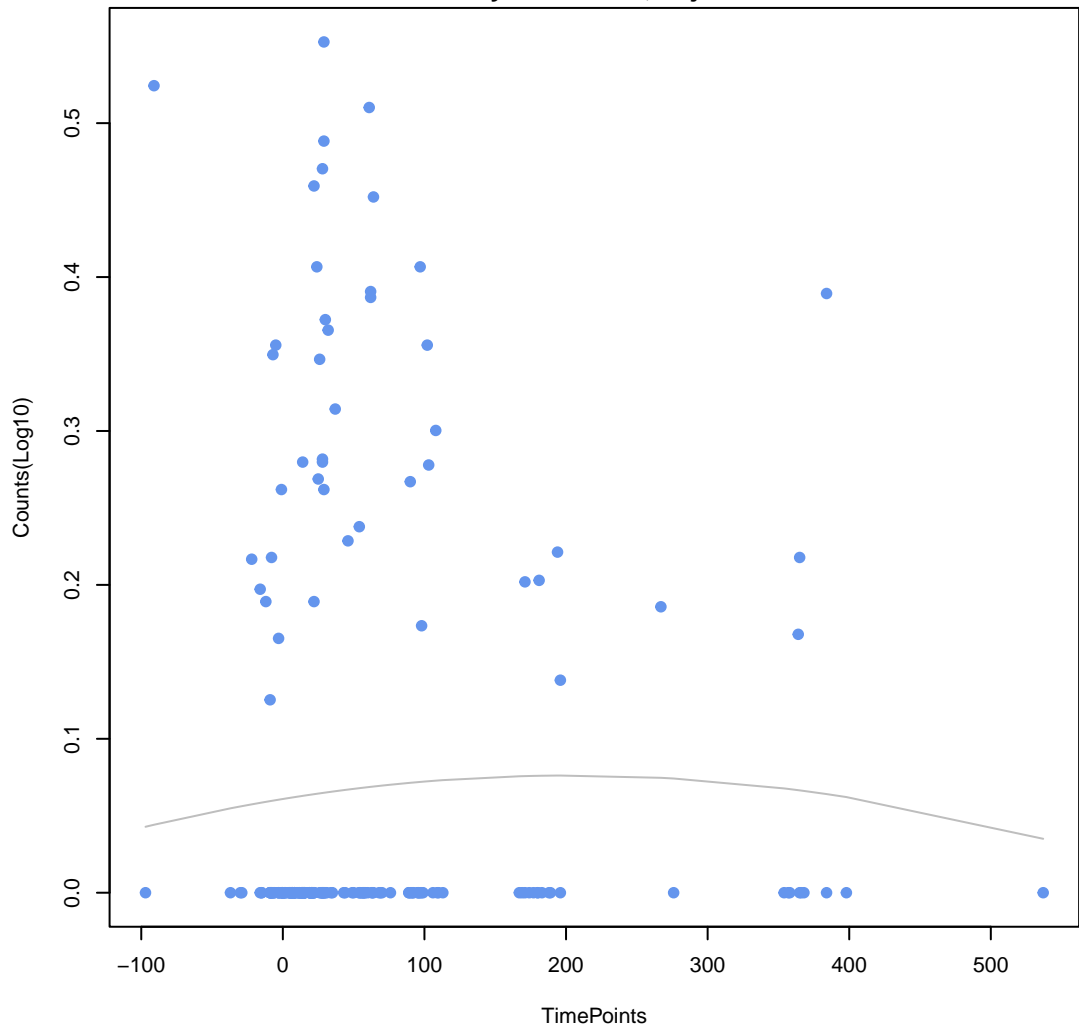
**ToIC**  
ANOVA P=0.74, adj. ANOVA-P=0.908  
Line vs. Poly F-P=0.561, adj. F-P=0.927



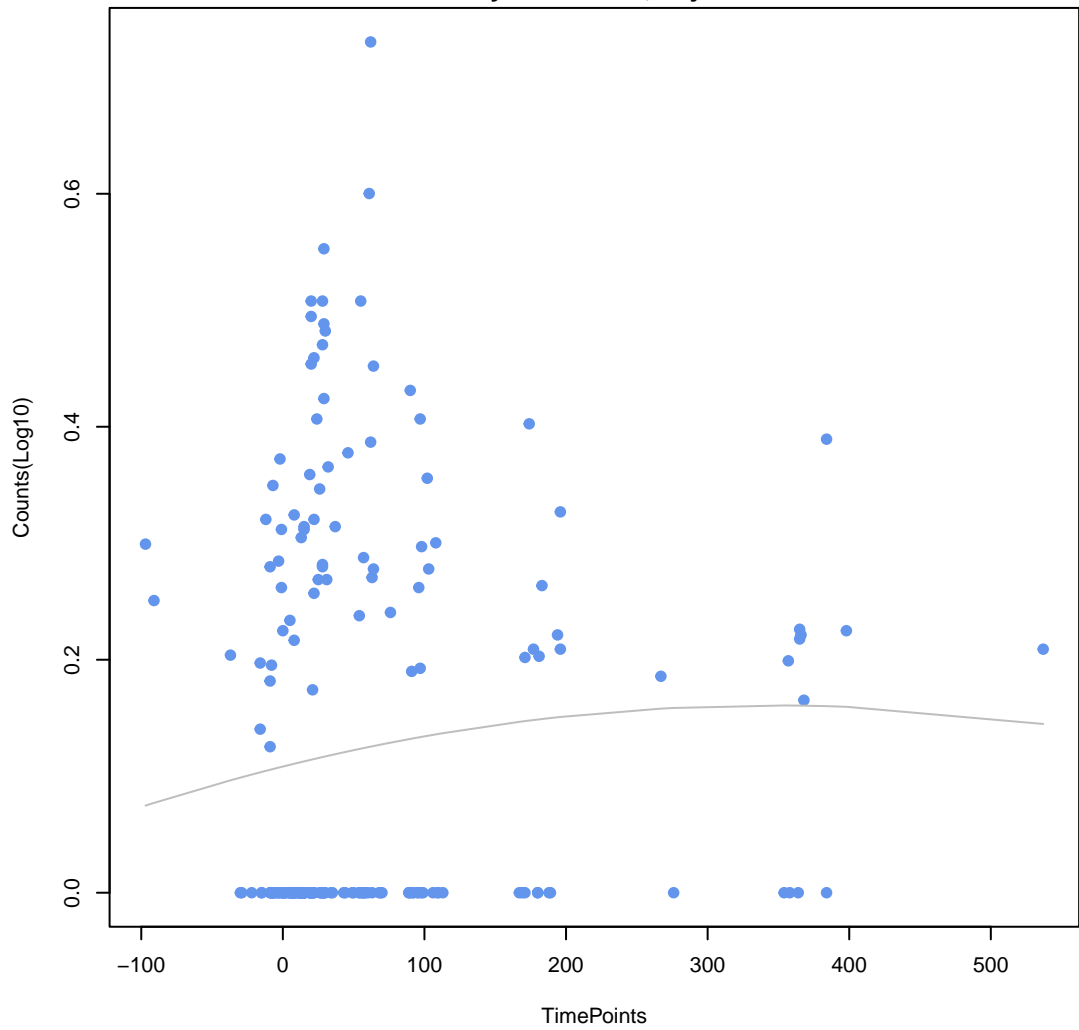
**ANA-1**  
ANOVA P=0.447, adj. ANOVA-P=0.809  
Line vs. Poly F-P=0.572, adj. F-P=0.927



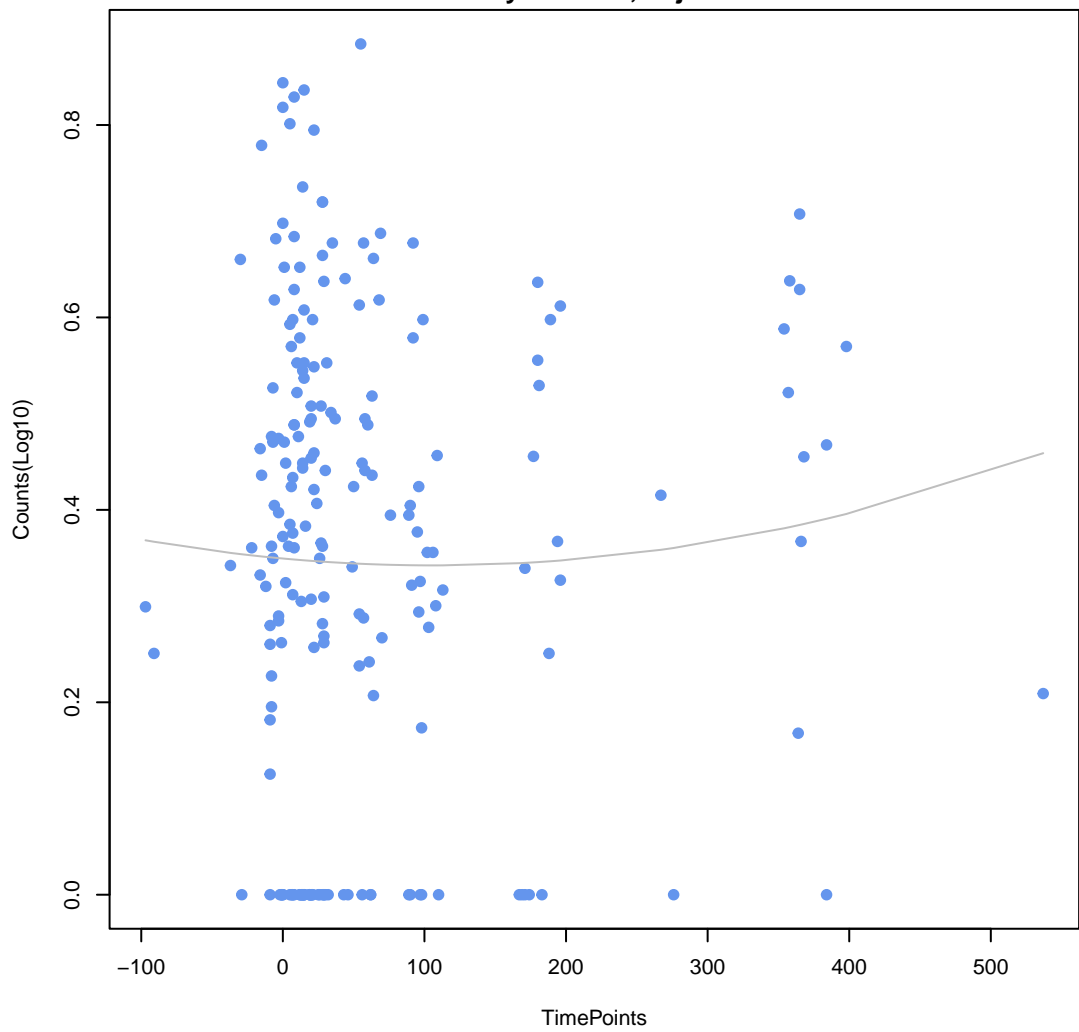
**Escherichia coli UhpT with mutation conferring resistance to fosfomycin**  
ANOVA P=0.83, adj. ANOVA-P=0.908  
Line vs. Poly F-P=0.575, adj. F-P=0.927



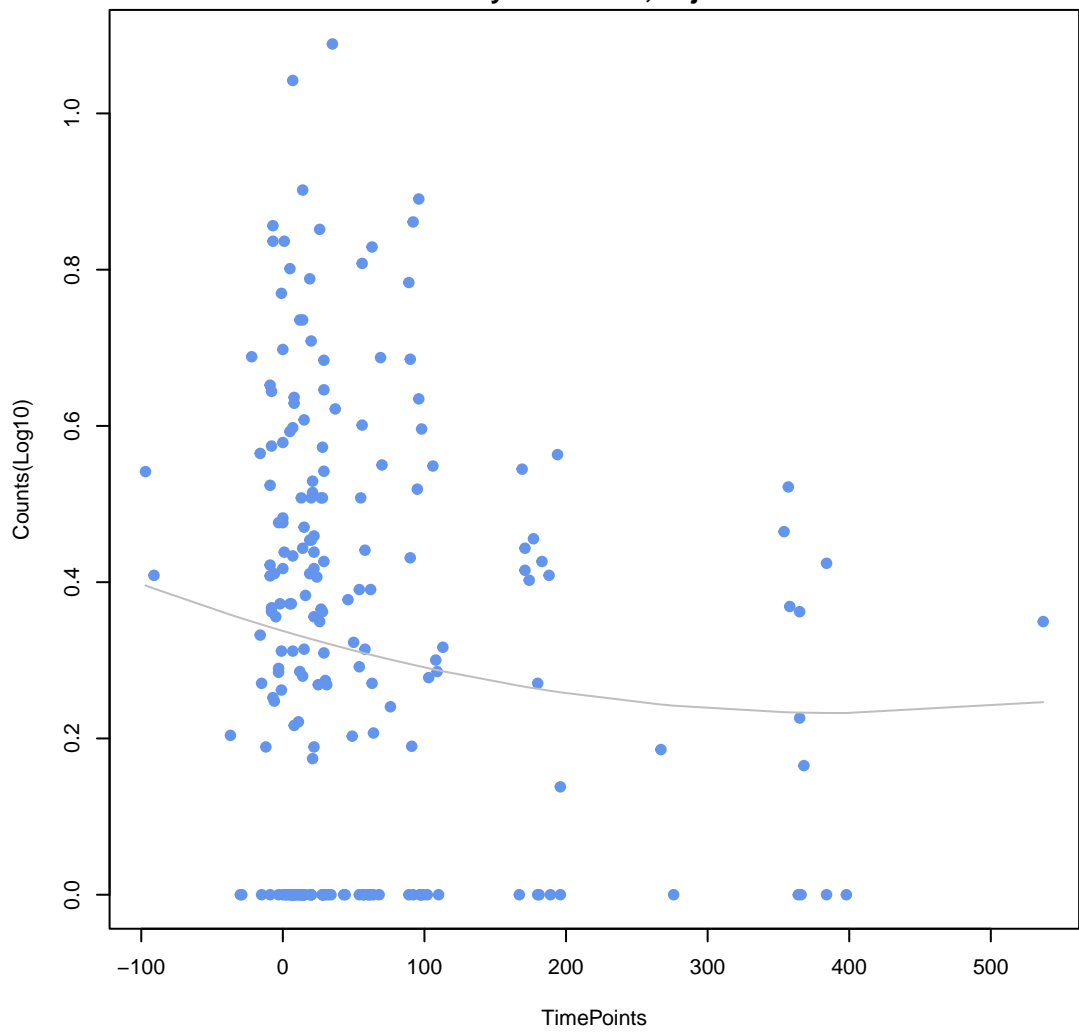
**marA**  
ANOVA P=0.378, adj. ANOVA-P=0.809  
Line vs. Poly F-P=0.593, adj. F-P=0.939



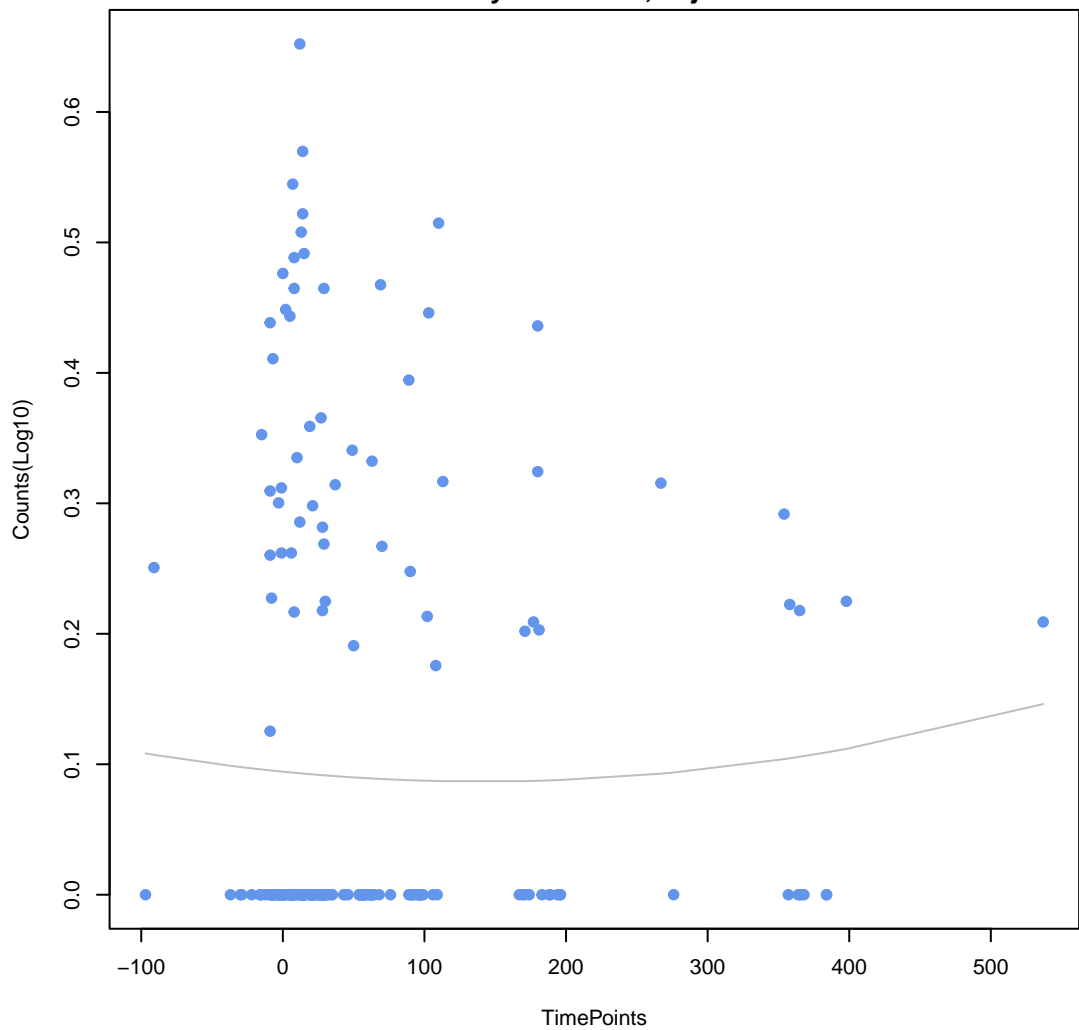
**tet(32)**  
ANOVA P=0.78, adj. ANOVA-P=0.908  
Line vs. Poly F-P=0.6, adj. F-P=0.939



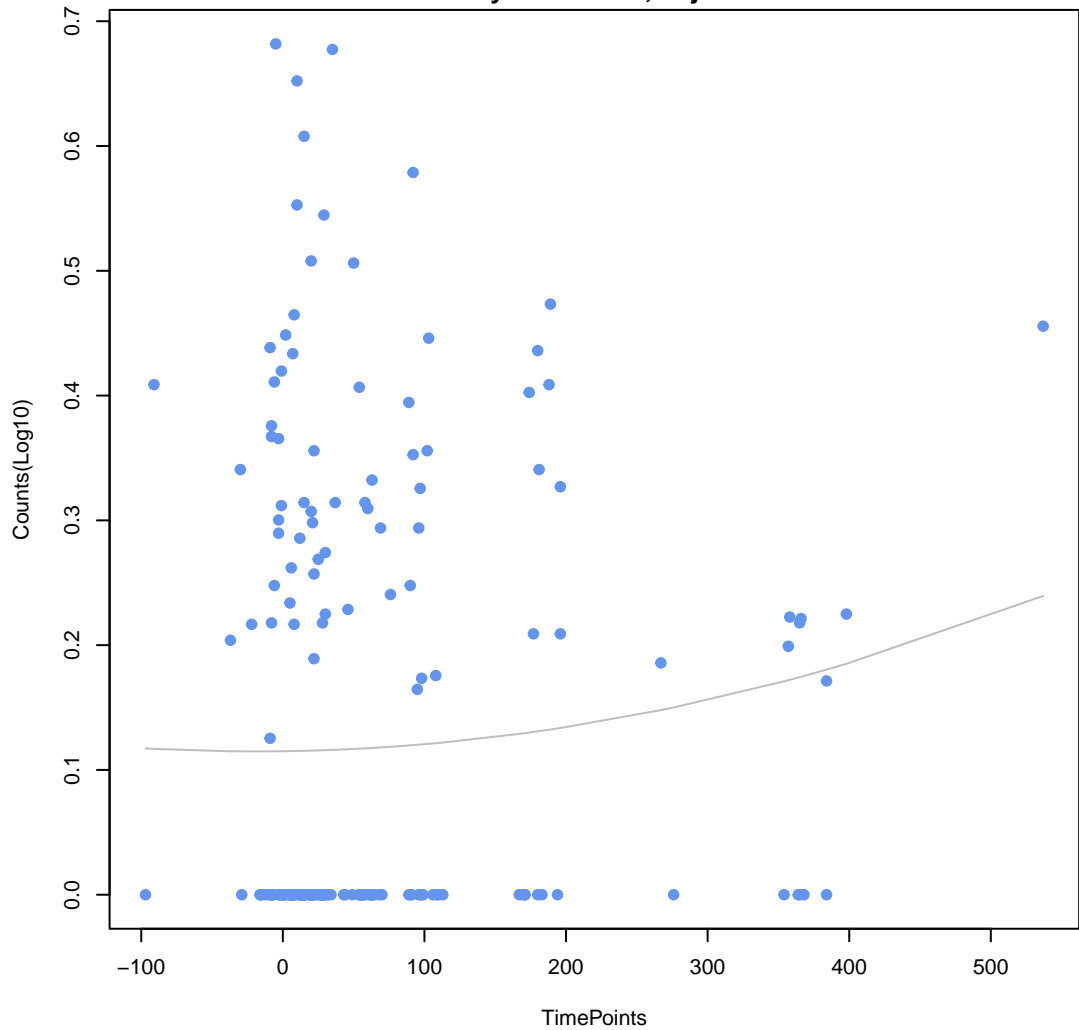
**Bifidobacterium adolescentis rpoB mutants conferring resistance to rifampicin**  
ANOVA P=0.255, adj. ANOVA-P=0.799  
Line vs. Poly F-P=0.608, adj. F-P=0.939



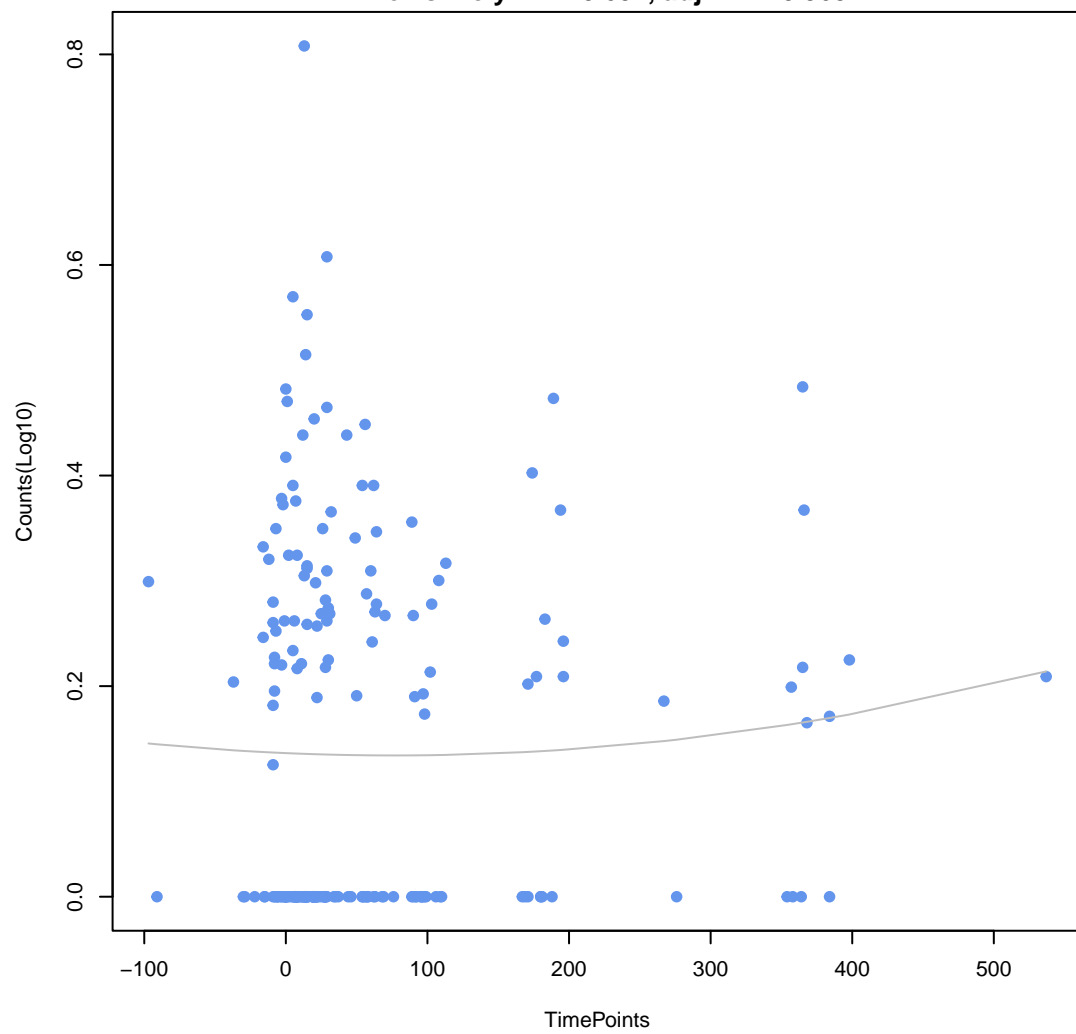
**oleB**  
ANOVA P=0.875, adj. ANOVA-P=0.936  
Line vs. Poly F-P=0.634, adj. F-P=0.963



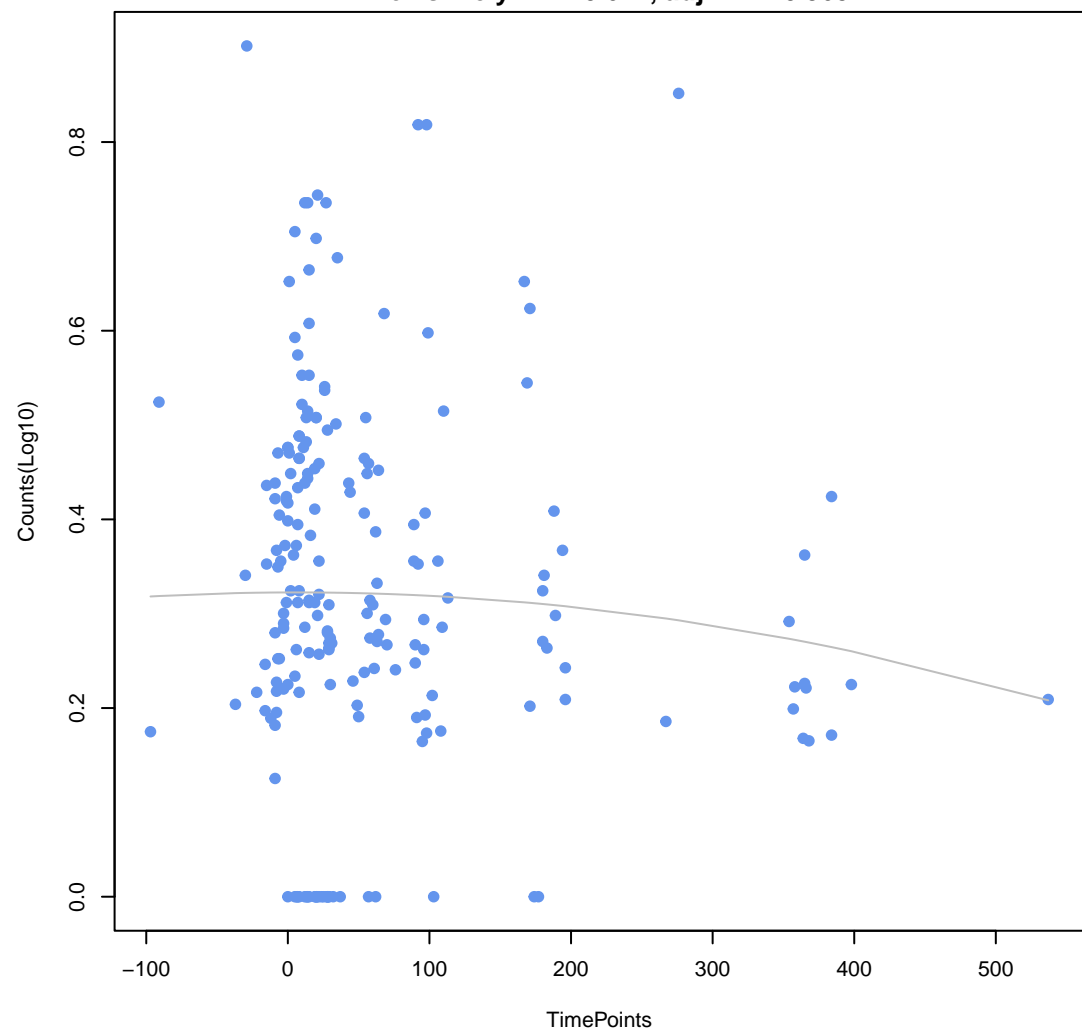
**myrA**  
ANOVA P=0.425, adj. ANOVA-P=0.809  
Line vs. Poly F-P=0.644, adj. F-P=0.963



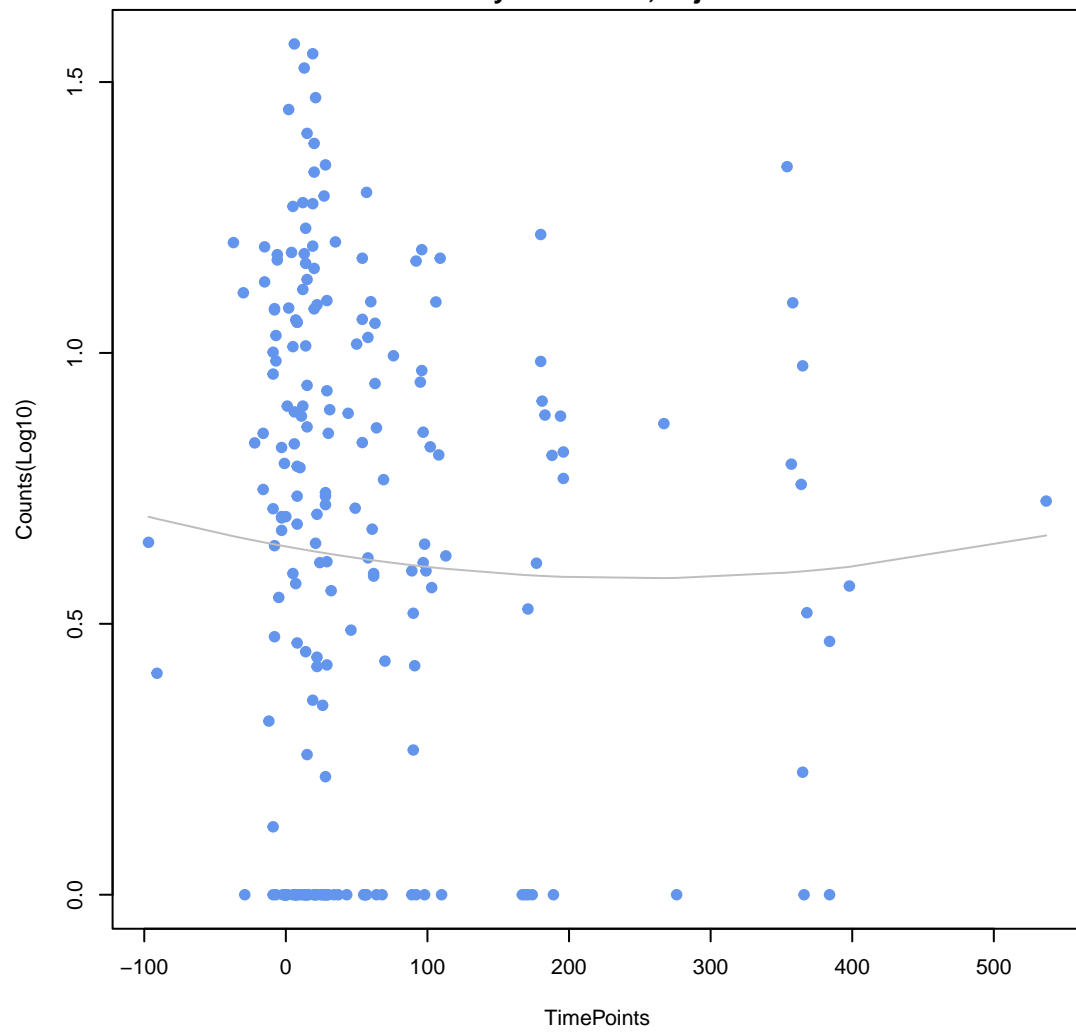
**Escherichia coli acrA**  
ANOVA P=0.757, adj. ANOVA-P=0.908  
Line vs. Poly F-P=0.652, adj. F-P=0.963



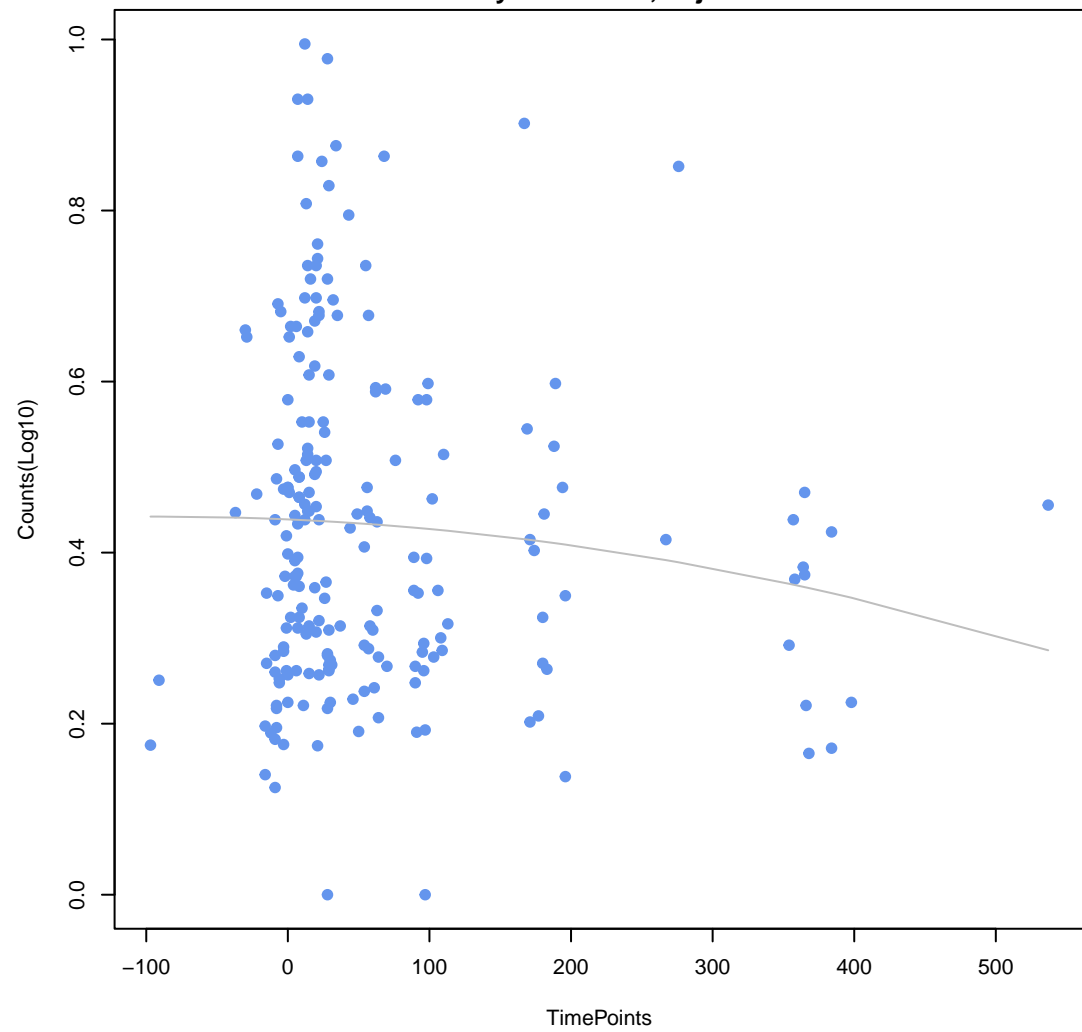
**tet(40)**  
ANOVA P=0.576, adj. ANOVA-P=0.822  
Line vs. Poly F-P=0.674, adj. F-P=0.963



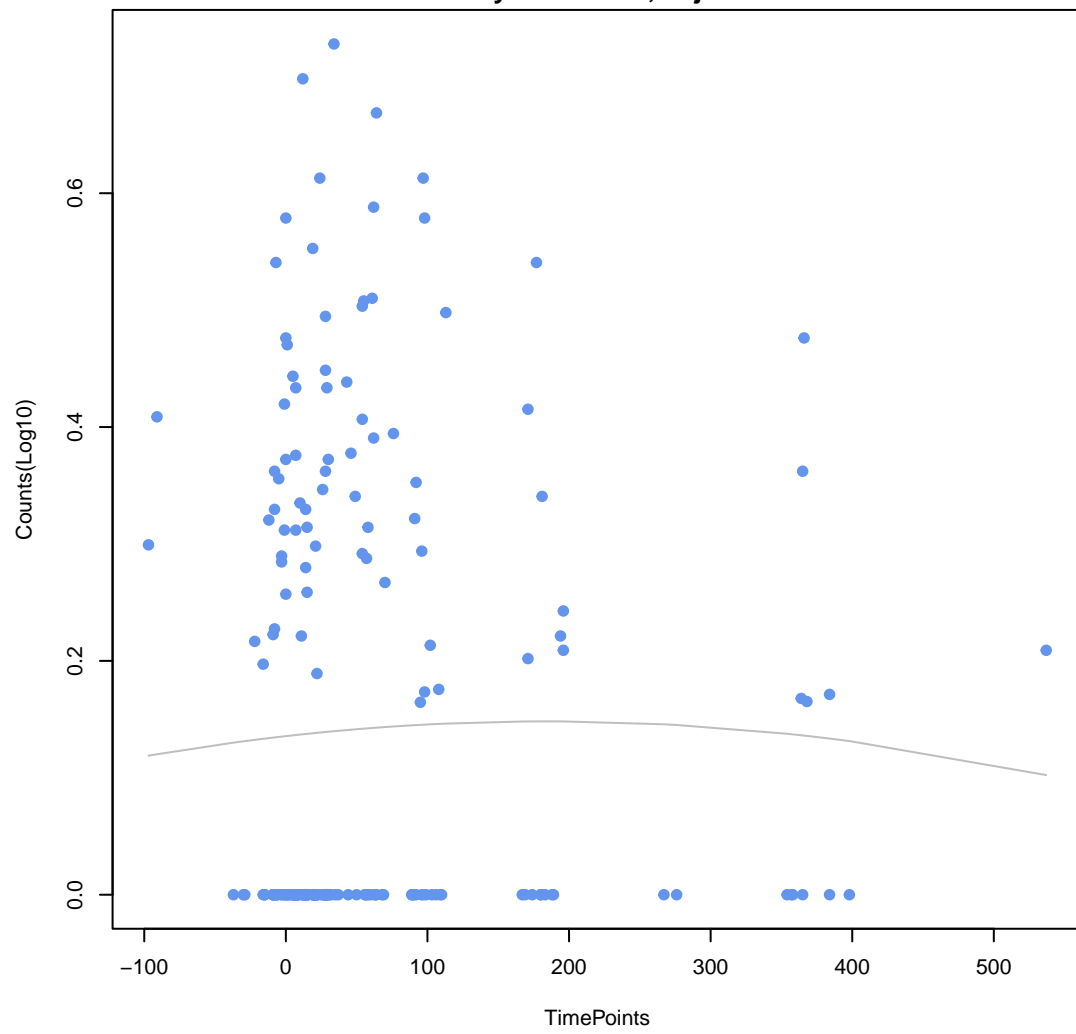
**adeF**  
ANOVA P=0.83, adj. ANOVA-P=0.908  
Line vs. Poly F-P=0.677, adj. F-P=0.963



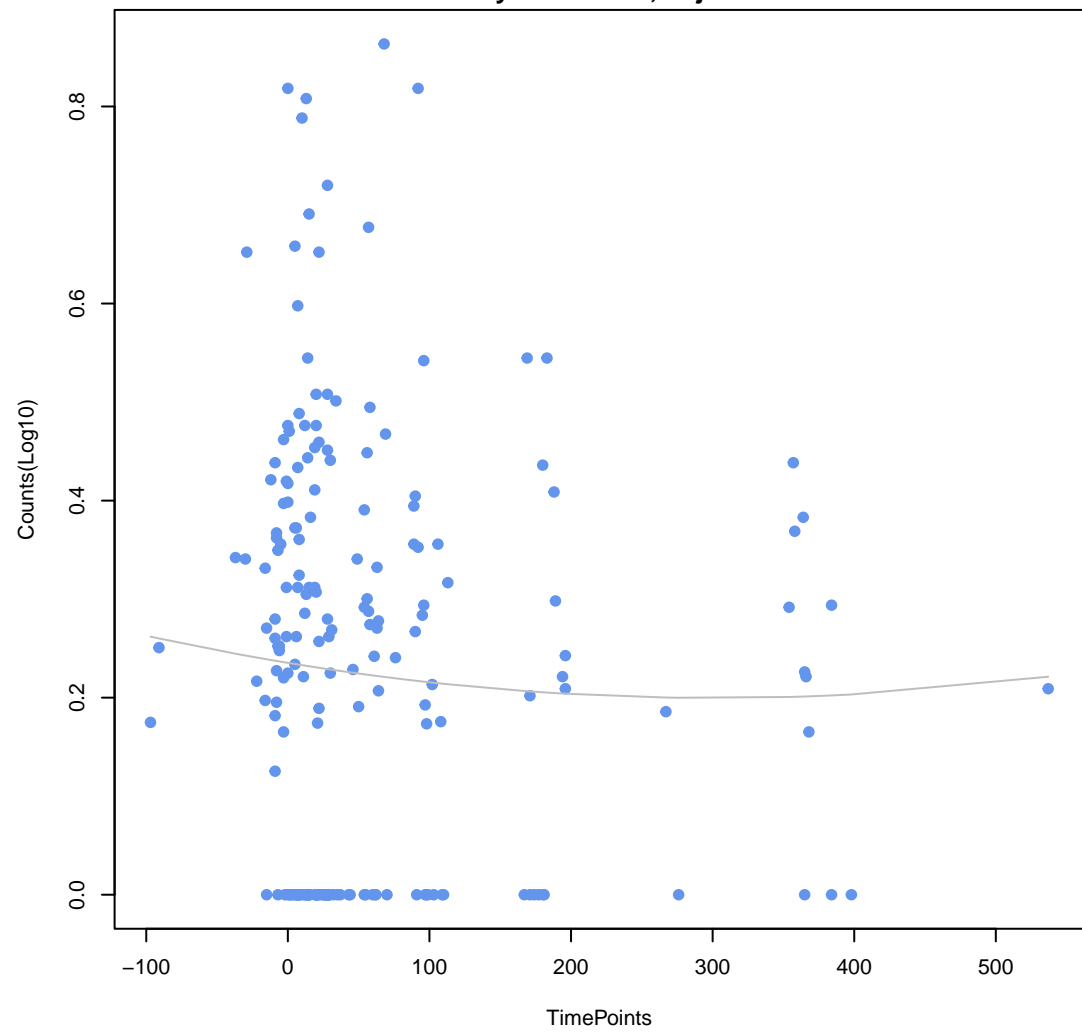
**tet(O)**  
ANOVA P=0.292, adj. ANOVA-P=0.809  
Line vs. Poly F-P=0.678, adj. F-P=0.963



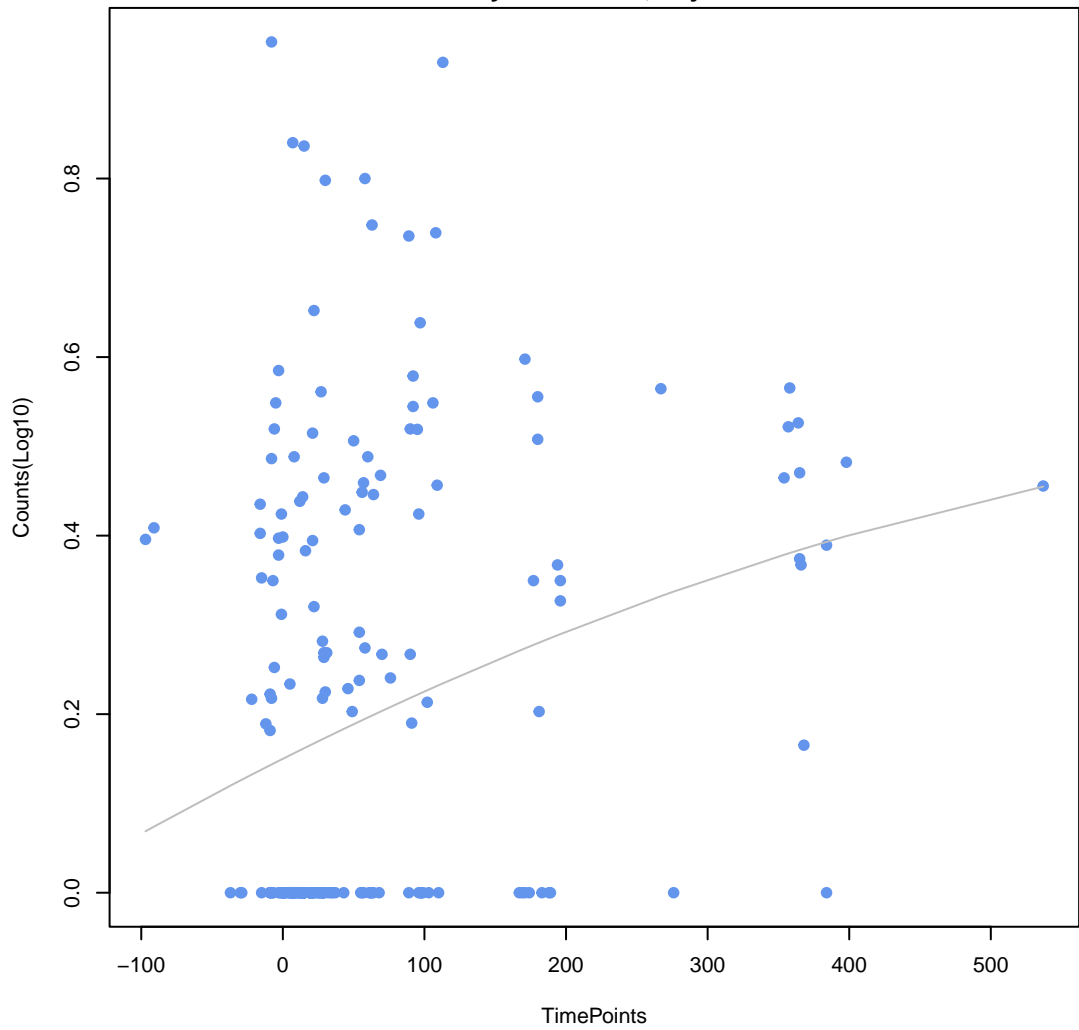
**Klebsiella pneumoniae KpnH**  
ANOVA P=0.926, adj. ANOVA-P=0.953  
Line vs. Poly F-P=0.699, adj. F-P=0.967



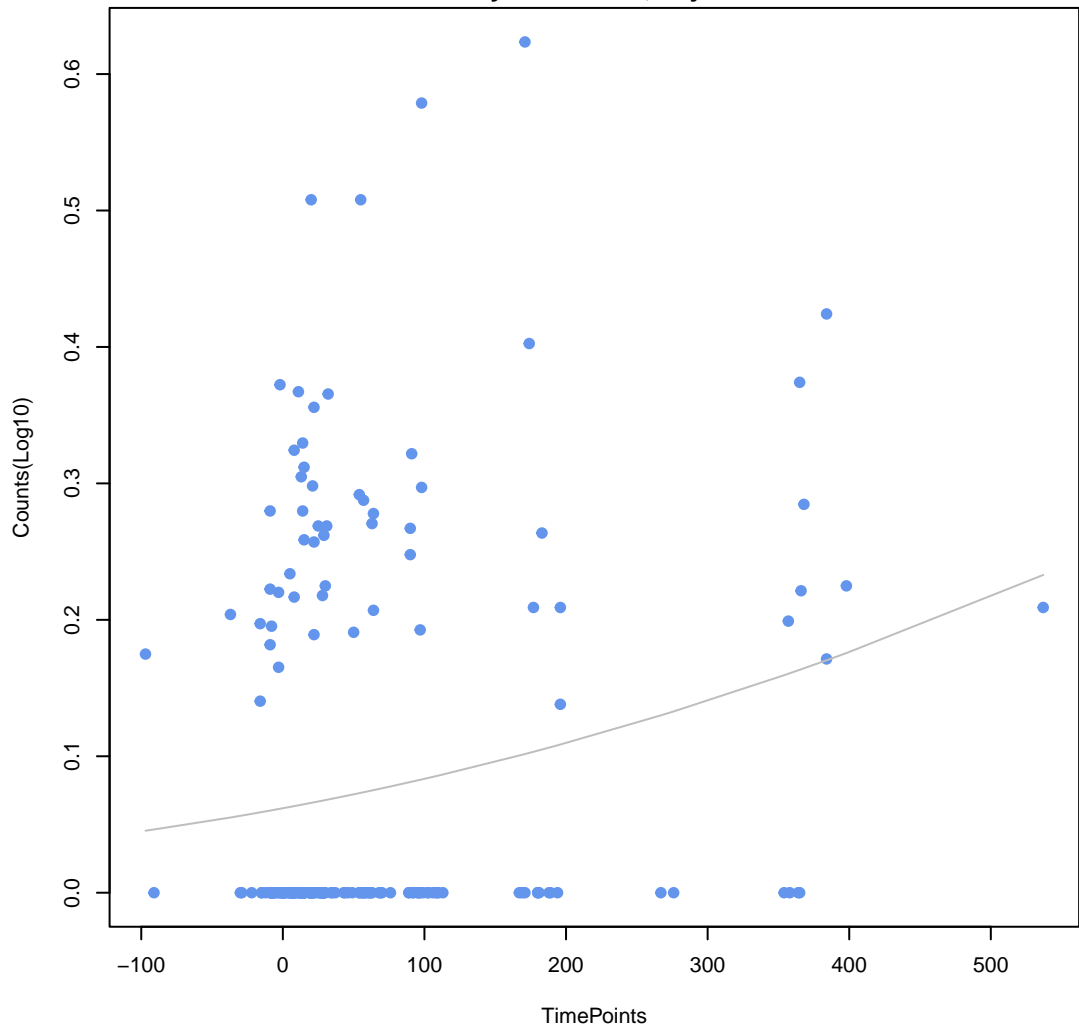
**InuC**  
ANOVA P=0.74, adj. ANOVA-P=0.908  
Line vs. Poly F-P=0.707, adj. F-P=0.967



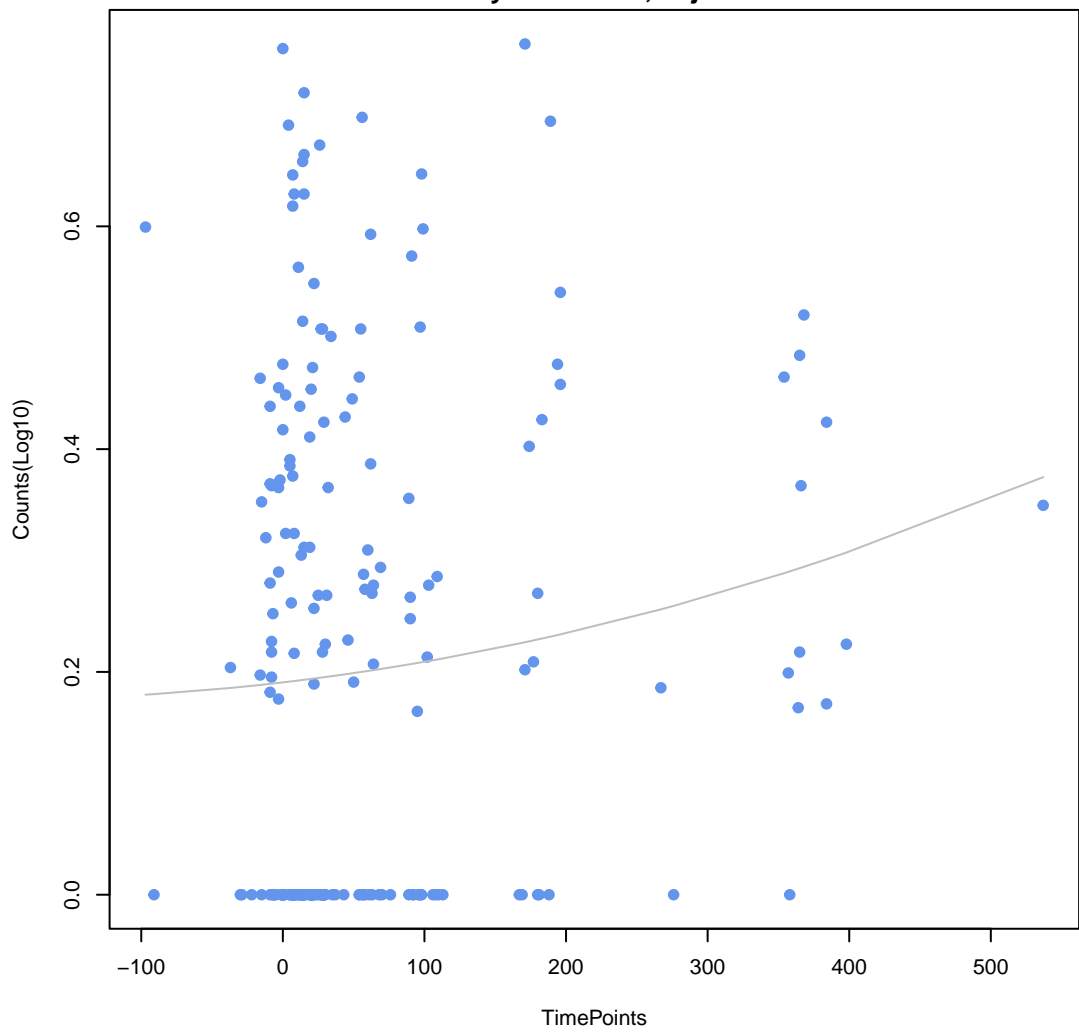
**nimA**  
ANOVA P=0.000633, adj. ANOVA-P=0.0684  
Line vs. Poly F-P=0.714, adj. F-P=0.967



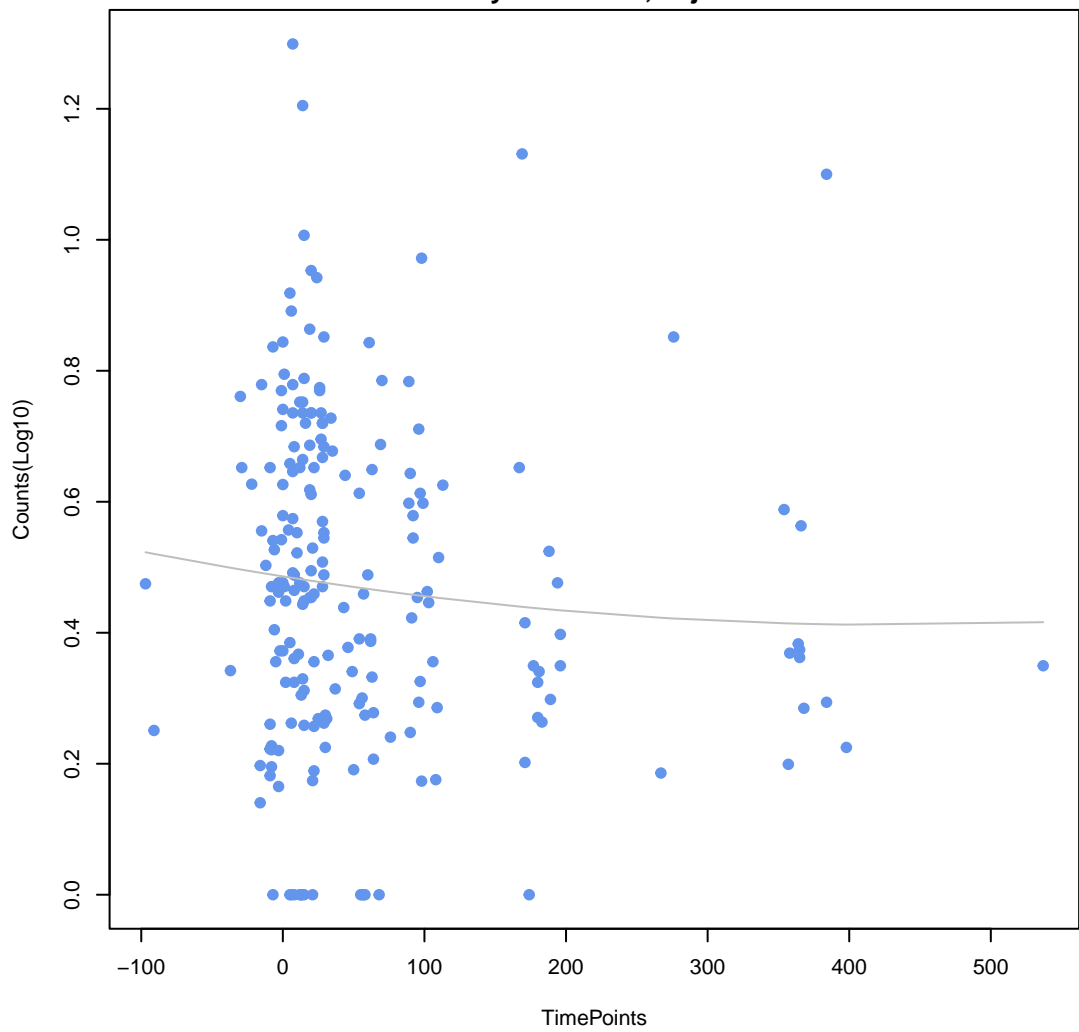
**evgA**  
ANOVA P=0.014, adj. ANOVA-P=0.505  
Line vs. Poly F-P=0.716, adj. F-P=0.967



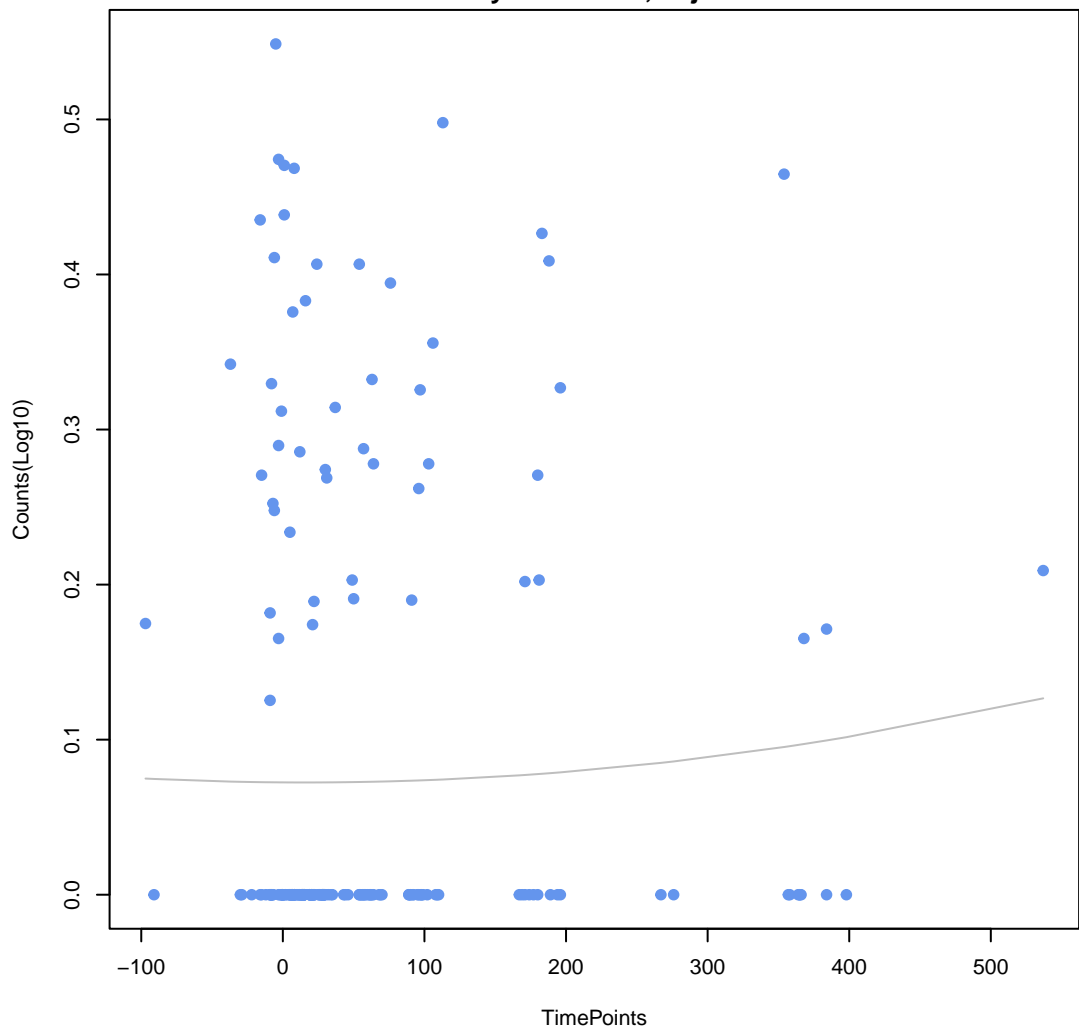
**mdtF**  
ANOVA P=0.217, adj. ANOVA-P=0.799  
Line vs. Poly F-P=0.742, adj. F-P=0.987



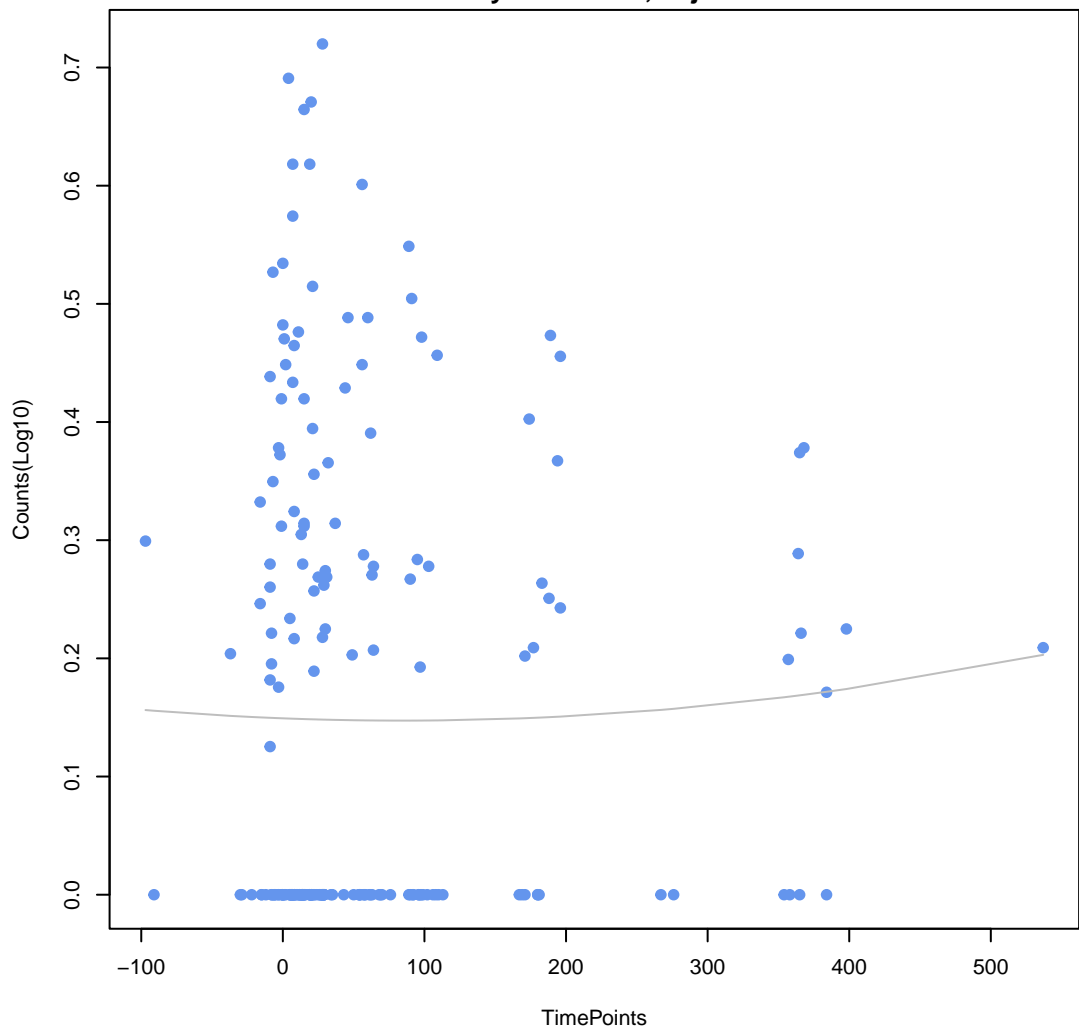
**tet(M)**  
ANOVA P=0.485, adj. ANOVA-P=0.818  
Line vs. Poly F-P=0.749, adj. F-P=0.987



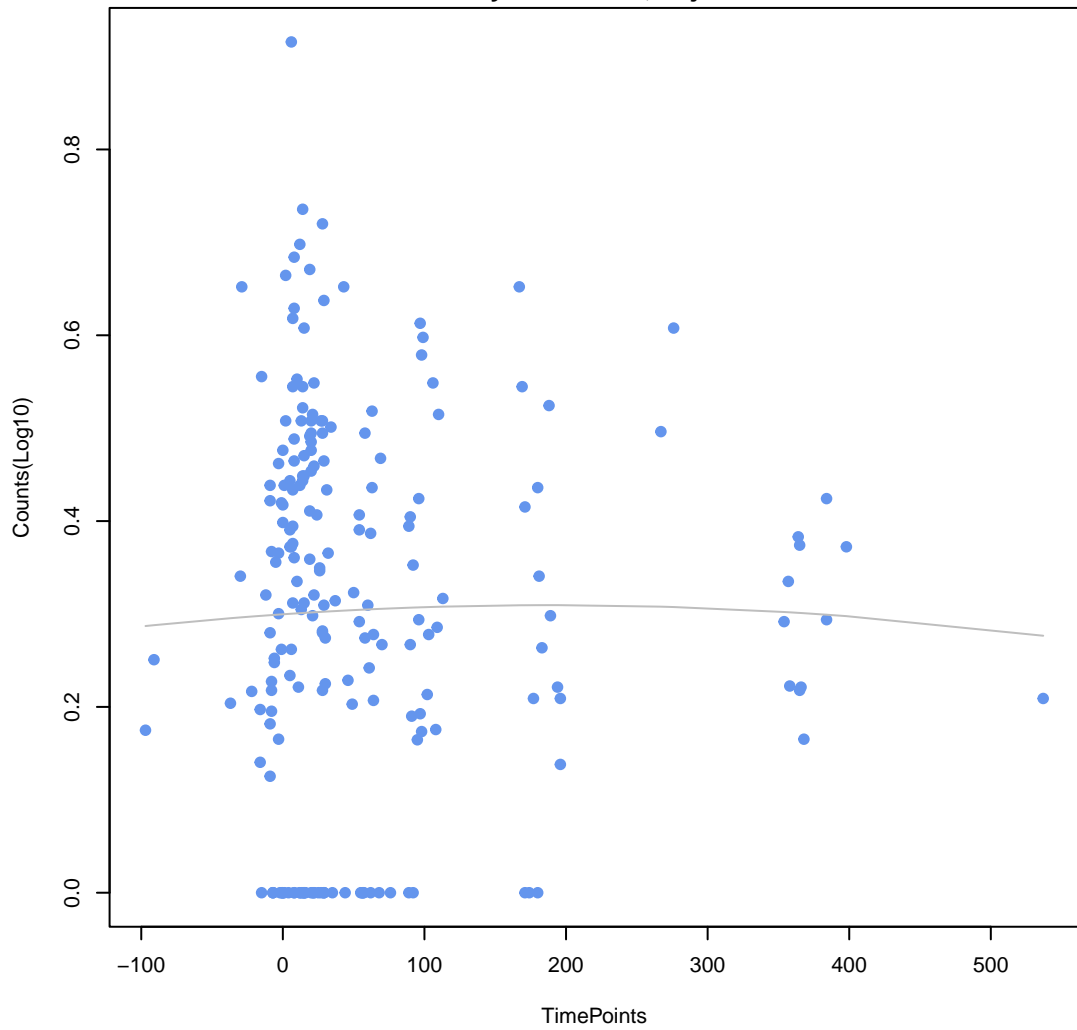
**SHV-43**  
ANOVA P=0.79, adj. ANOVA-P=0.908  
Line vs. Poly F-P=0.774, adj. F-P=0.988



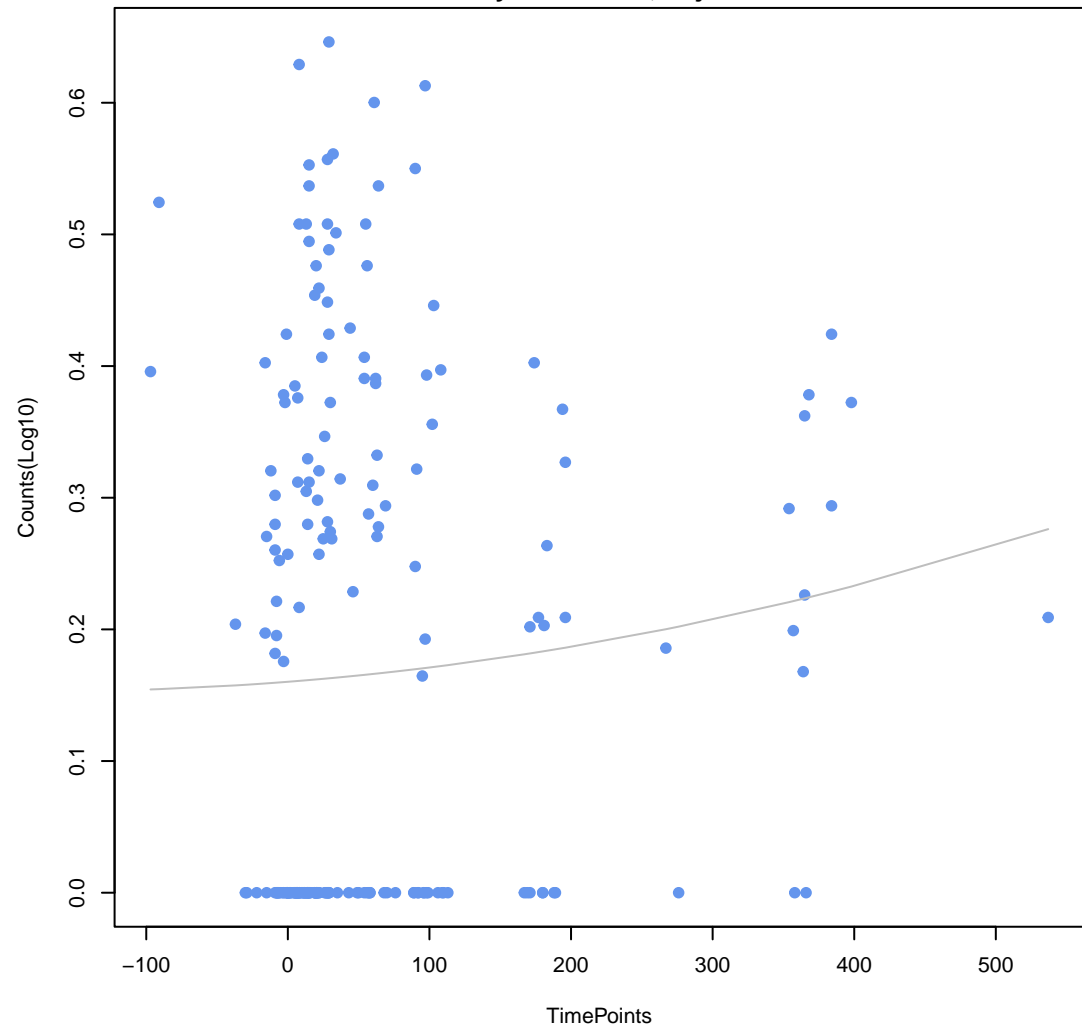
**mdtP**  
ANOVA P=0.907, adj. ANOVA-P=0.947  
Line vs. Poly F-P=0.778, adj. F-P=0.988



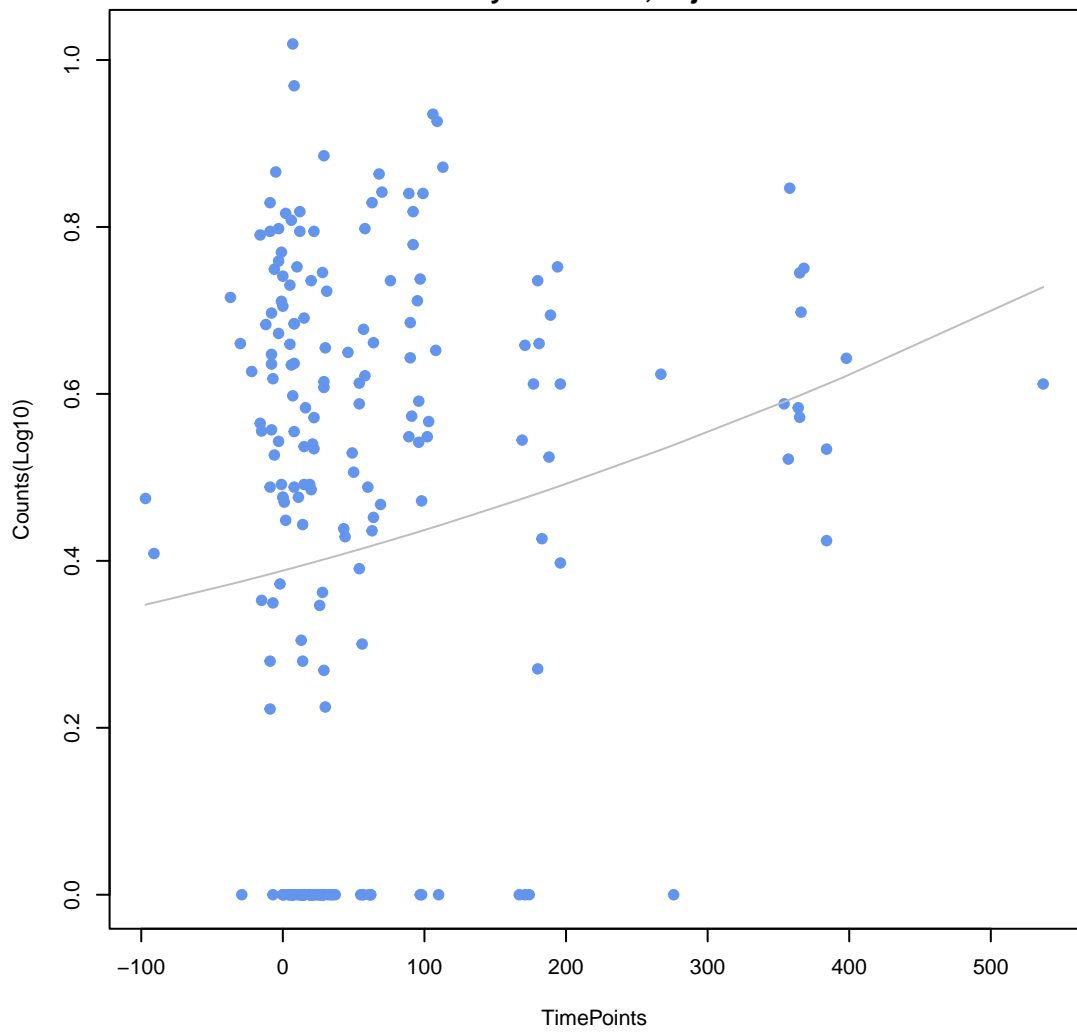
**aad(6)**  
ANOVA  $P=0.961$ , adj. ANOVA- $P=0.97$   
Line vs. Poly F- $P=0.785$ , adj. F- $P=0.988$



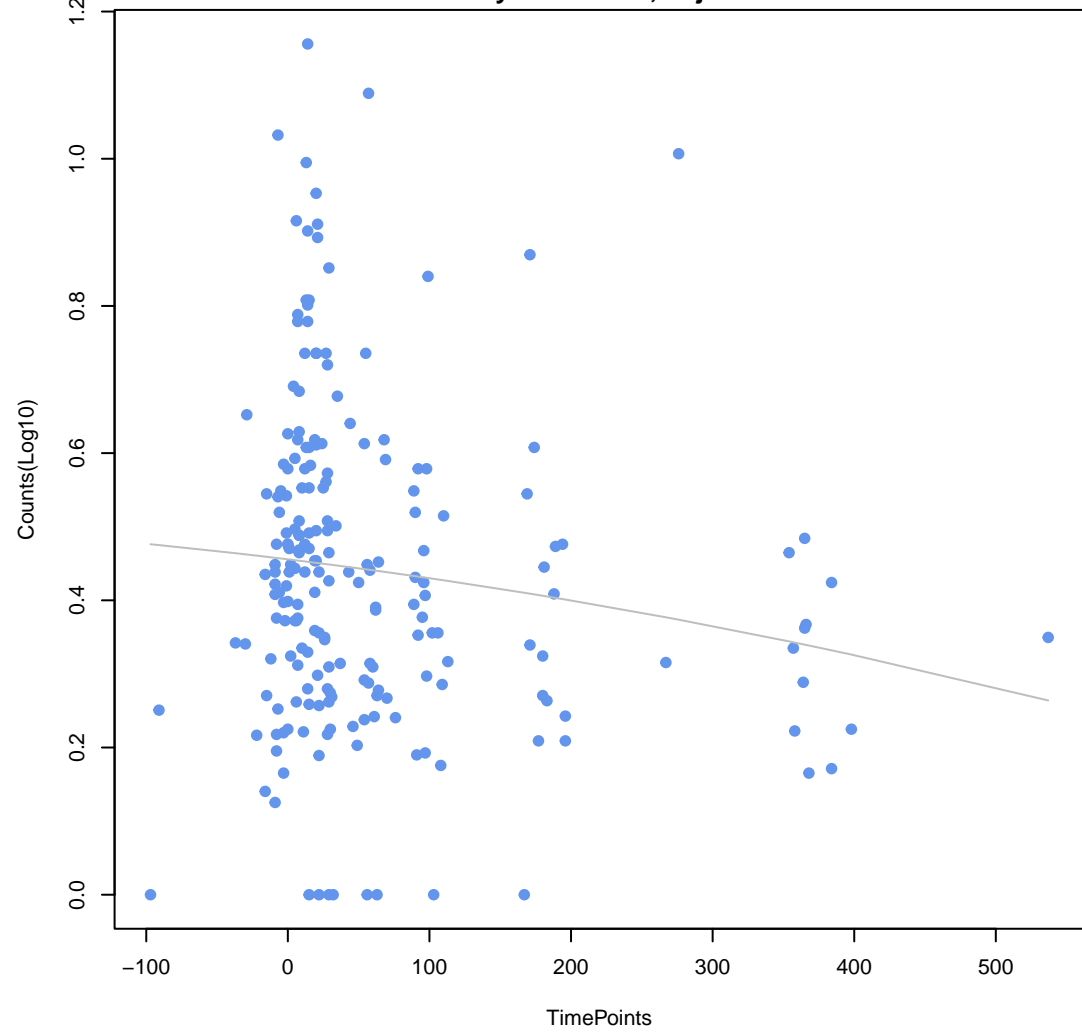
**PmrF**  
ANOVA  $P=0.457$ , adj. ANOVA- $P=0.809$   
Line vs. Poly F- $P=0.796$ , adj. F- $P=0.988$



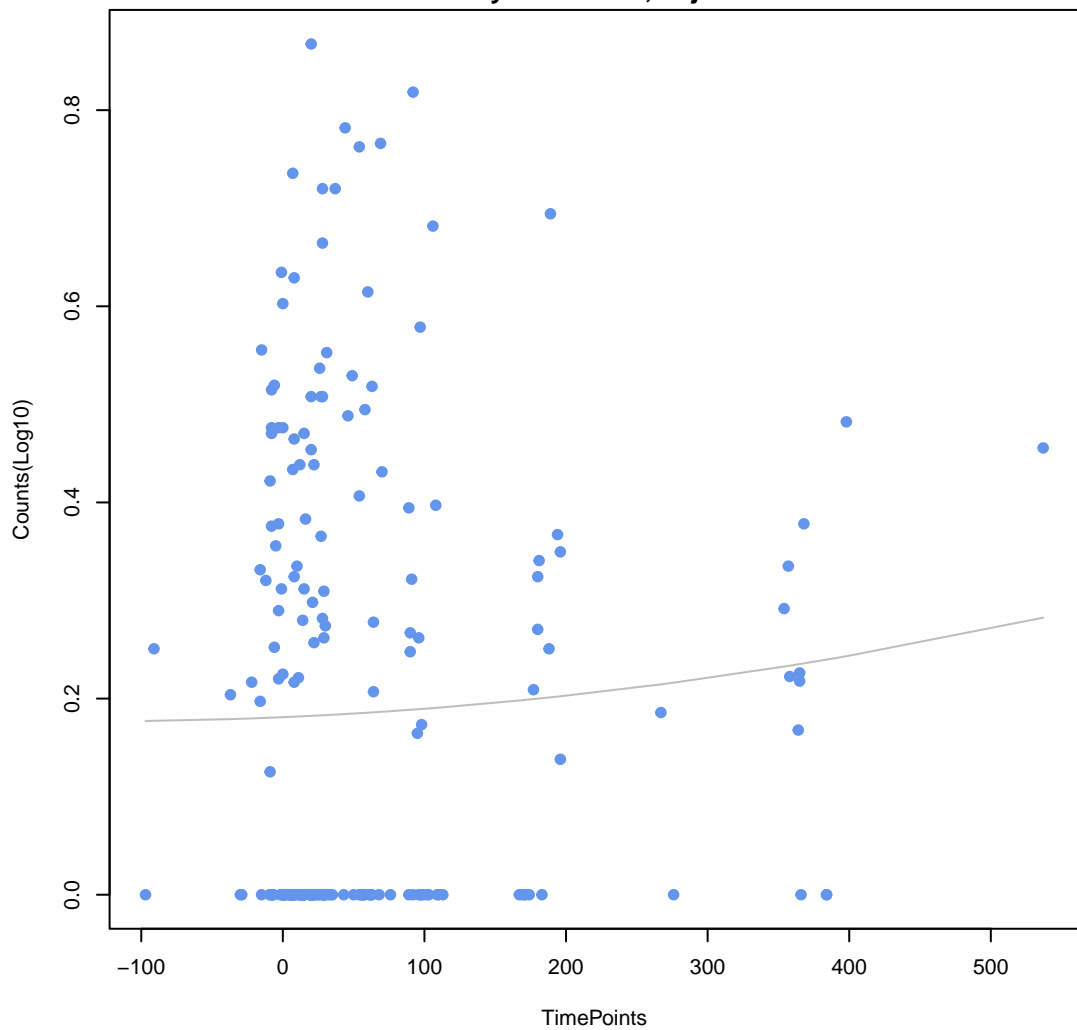
**tet(T)**  
ANOVA  $P=0.0356$ , adj. ANOVA- $P=0.516$   
Line vs. Poly F- $P=0.825$ , adj. F- $P=0.988$



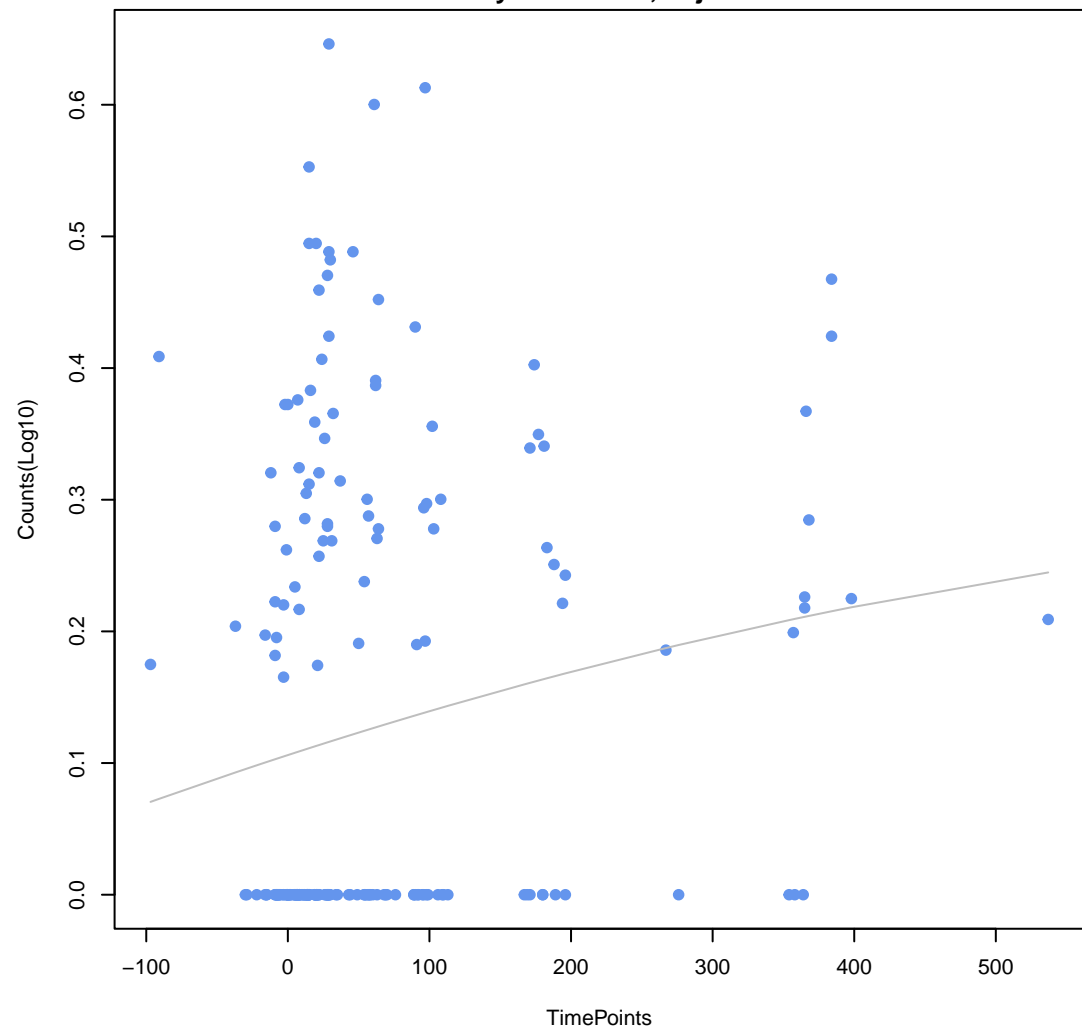
**tet(W)**  
ANOVA  $P=0.123$ , adj. ANOVA- $P=0.691$   
Line vs. Poly F- $P=0.828$ , adj. F- $P=0.988$

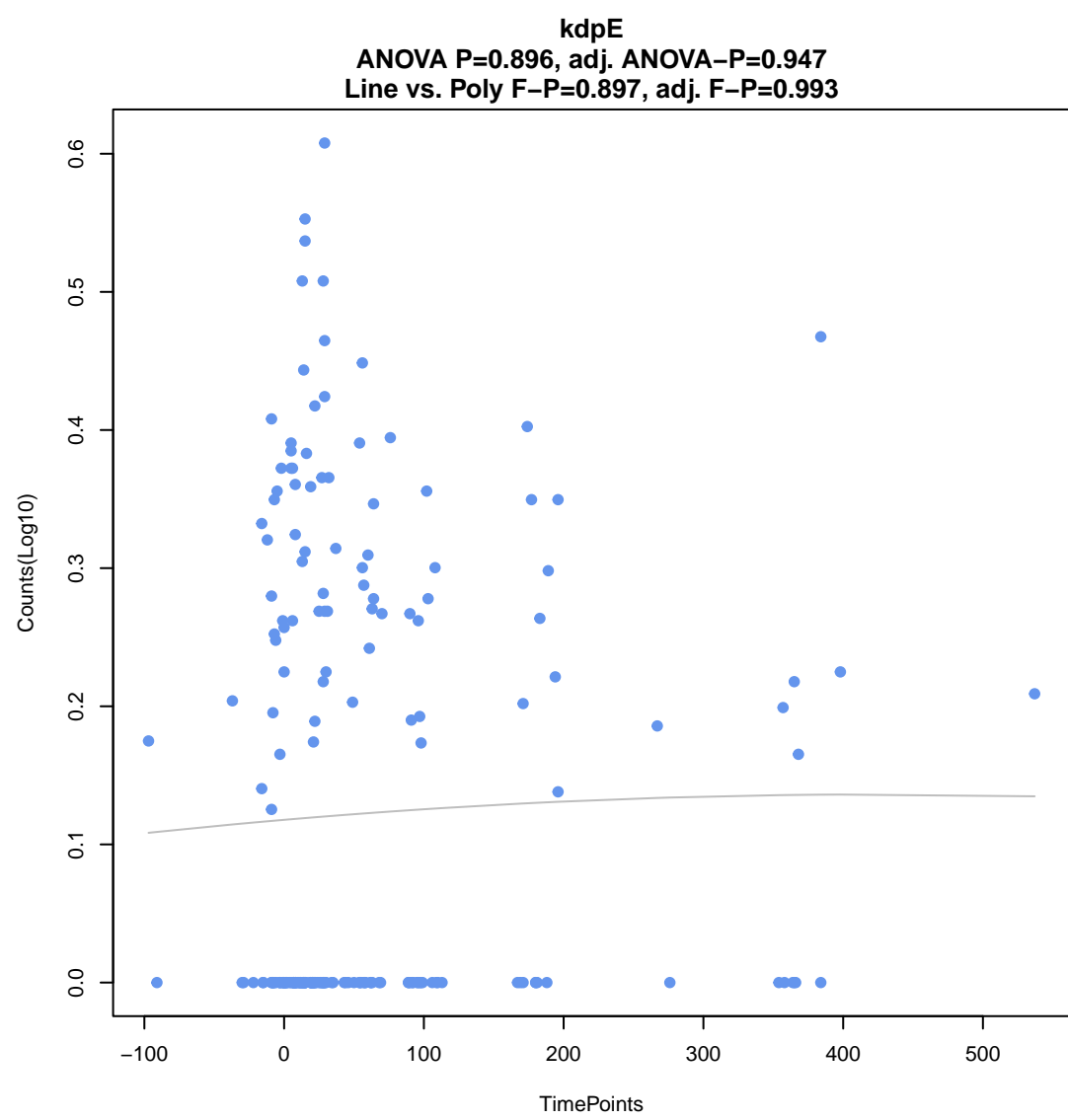
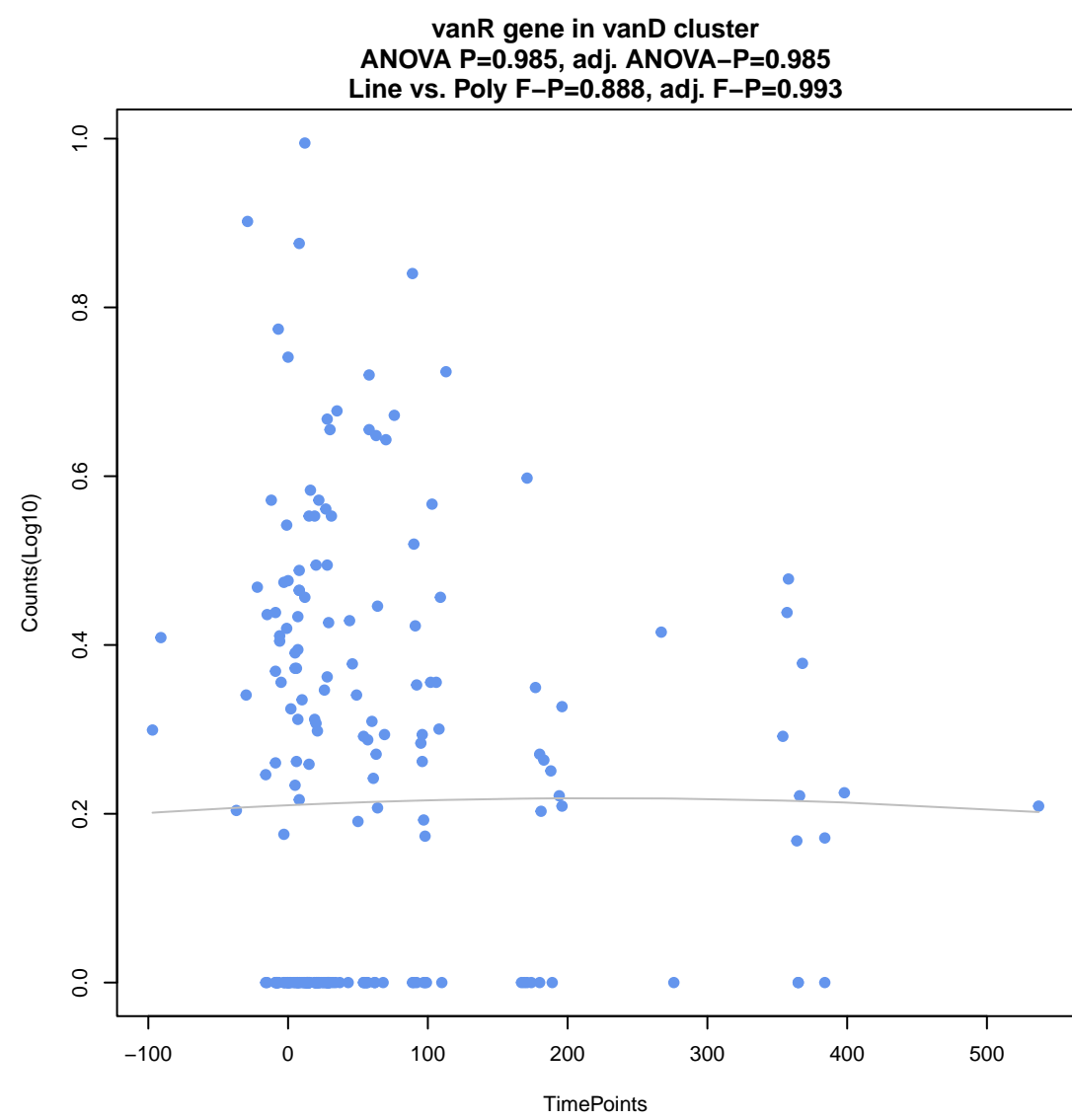
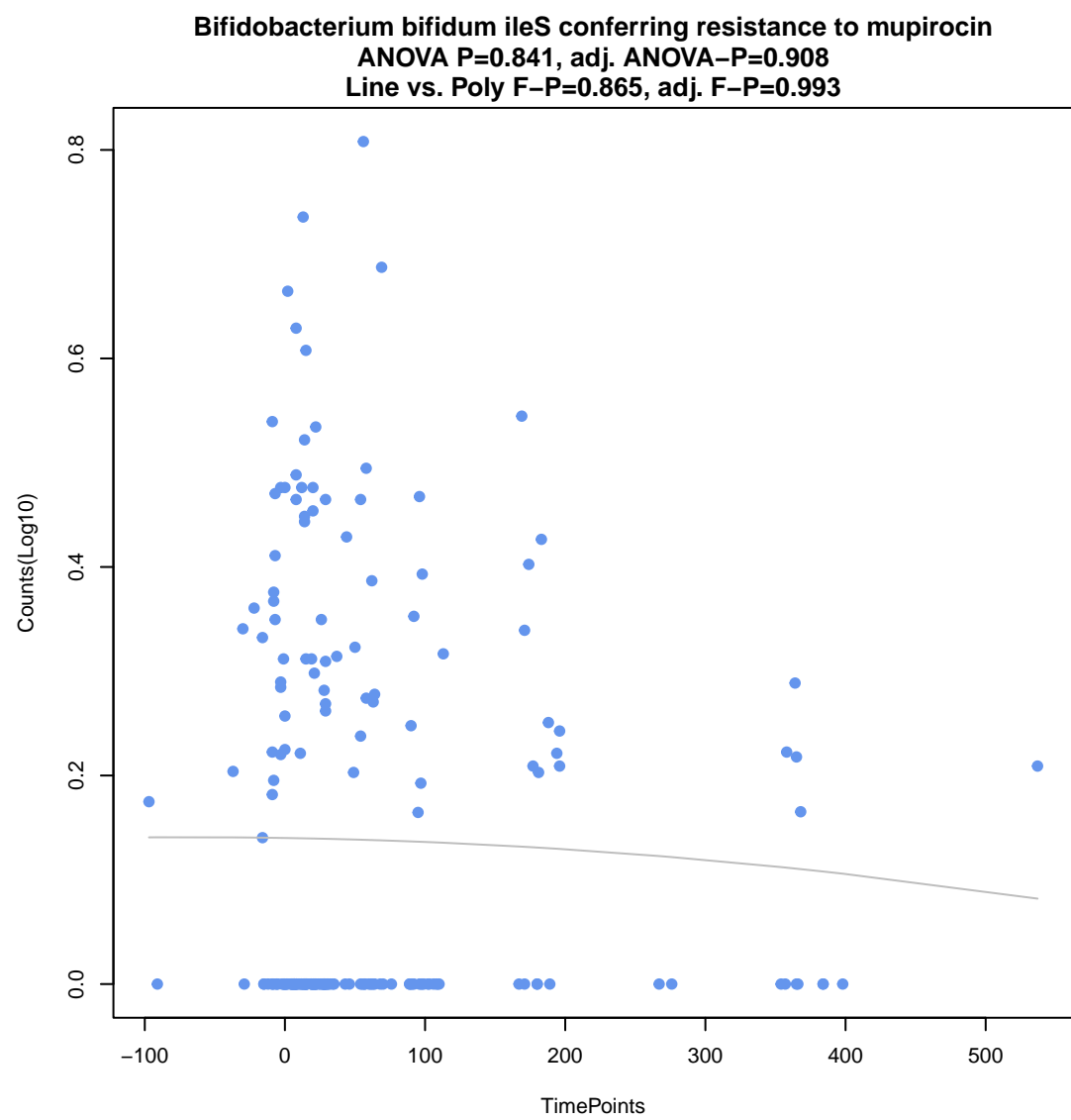
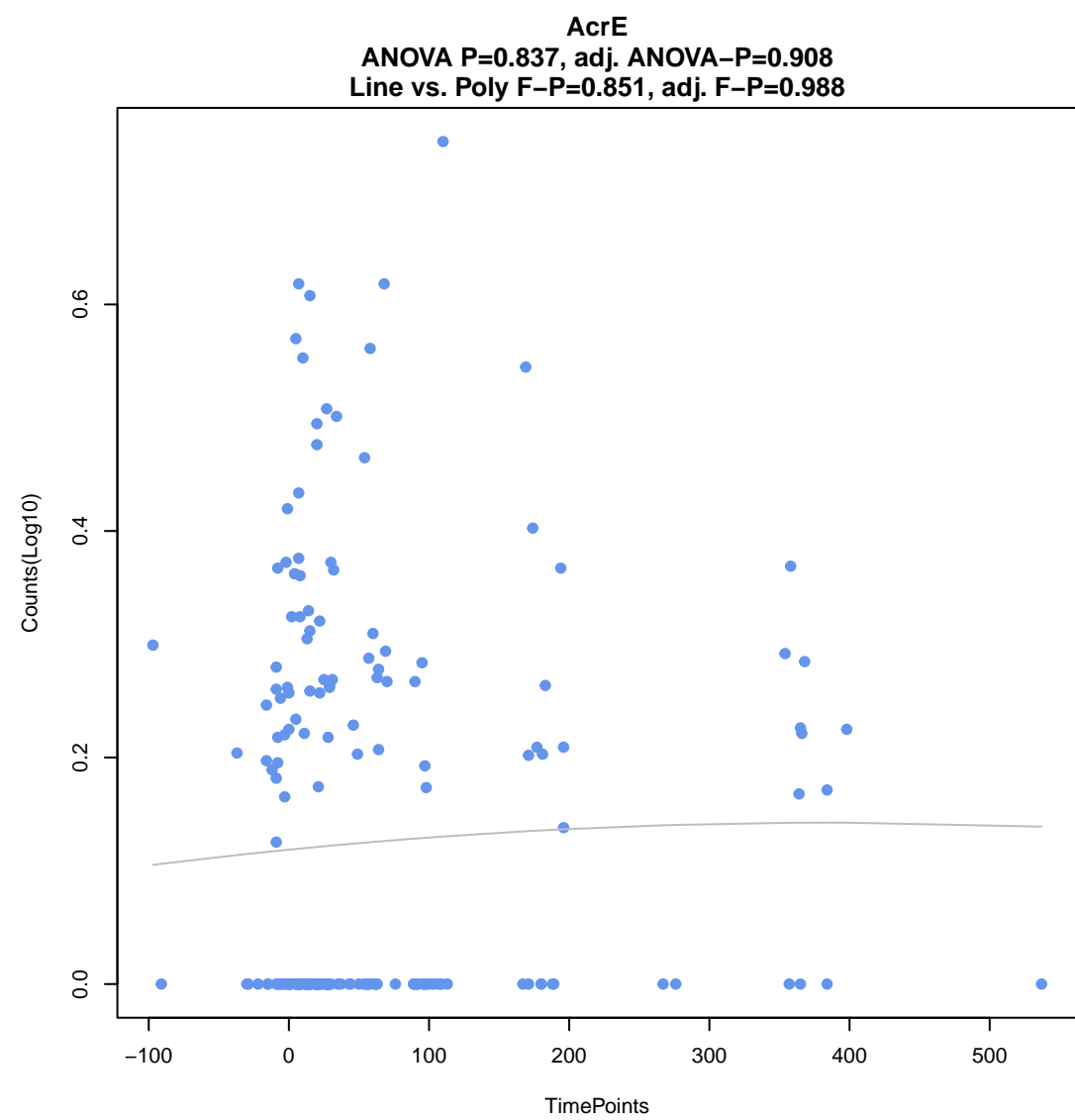
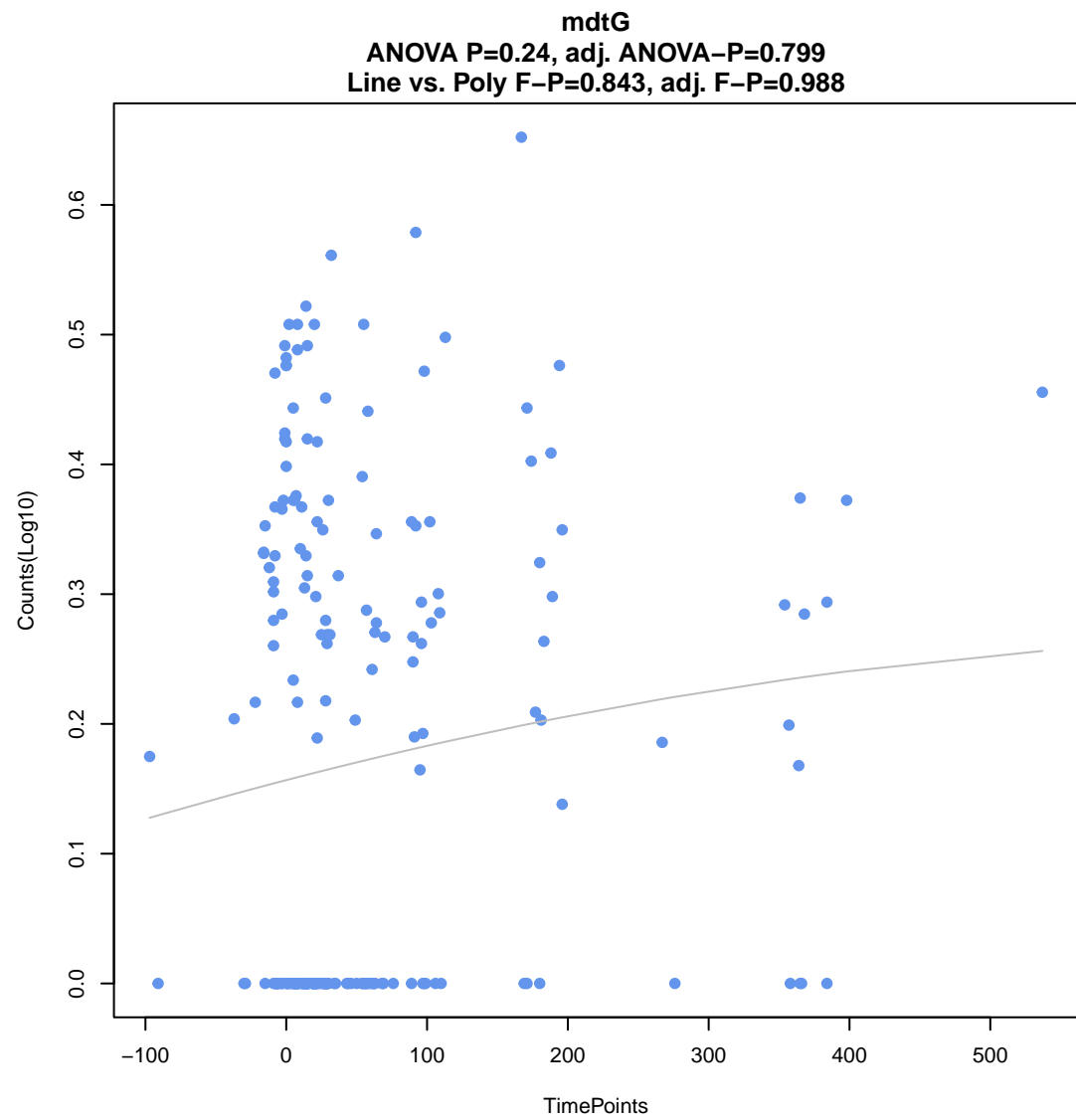
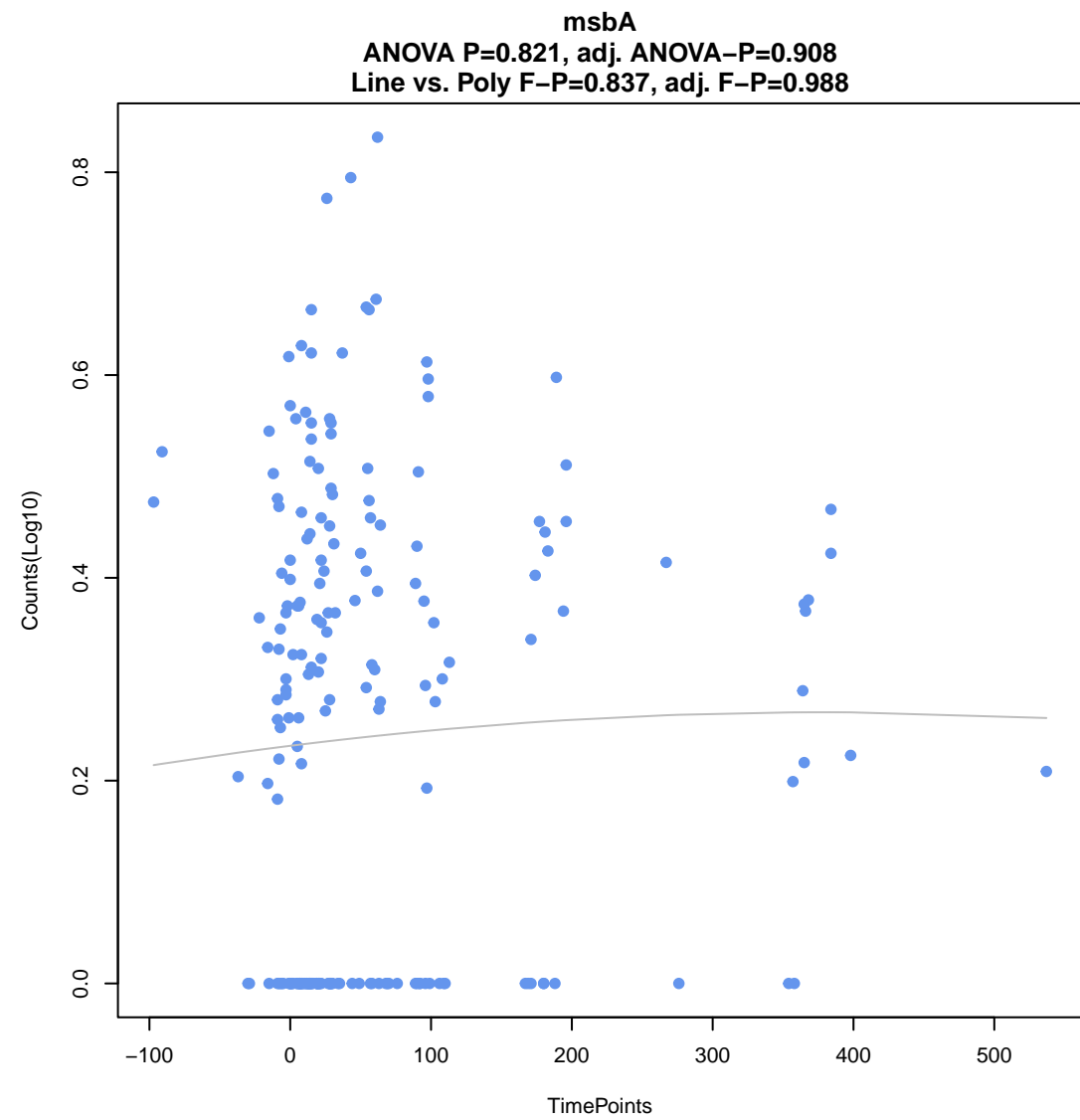


**tet(44)**  
ANOVA  $P=0.669$ , adj. ANOVA- $P=0.861$   
Line vs. Poly F- $P=0.836$ , adj. F- $P=0.988$



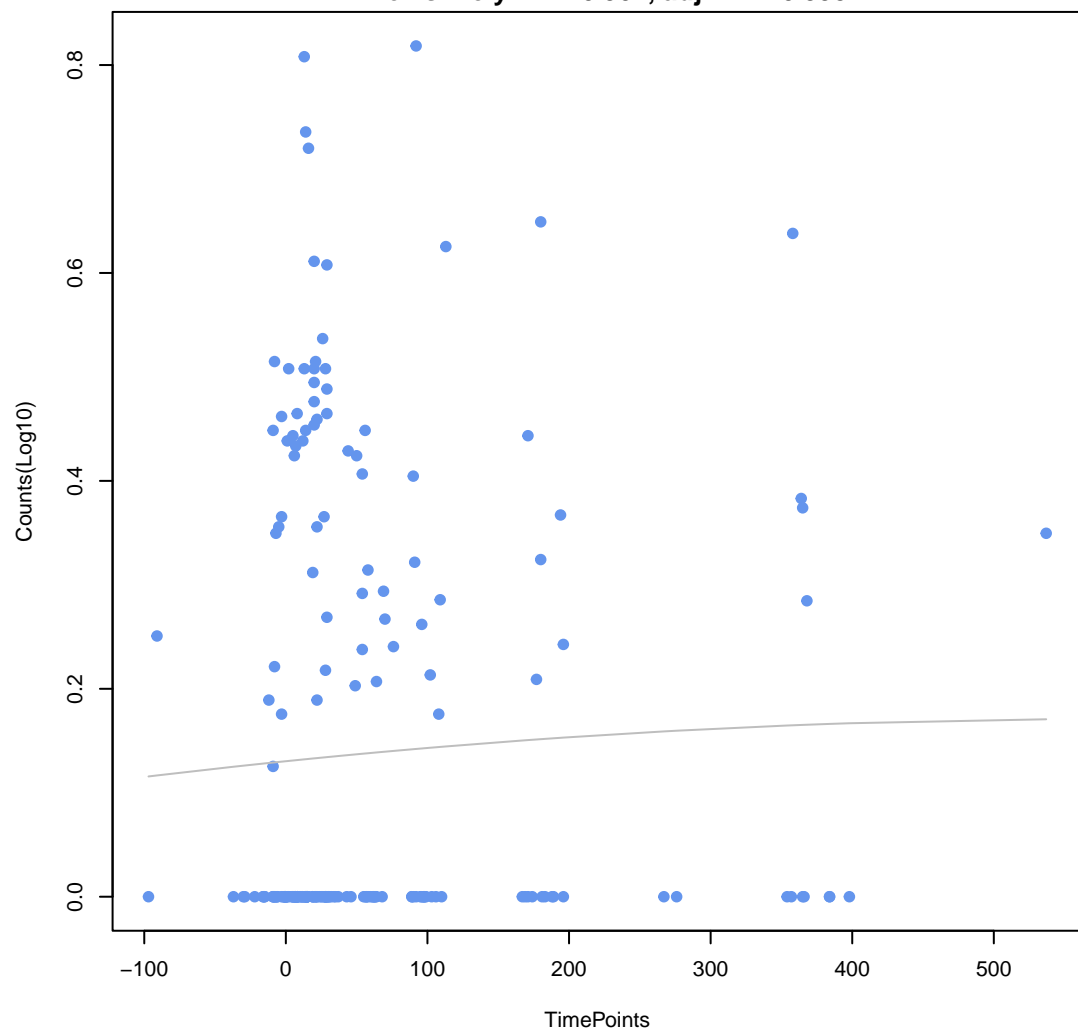
**scherrichia coli AcrAB-TolC with MarR mutations conferring resistance to ciprofloxacin and**  
ANOVA  $P=0.0526$ , adj. ANOVA- $P=0.516$   
Line vs. Poly F- $P=0.837$ , adj. F- $P=0.988$



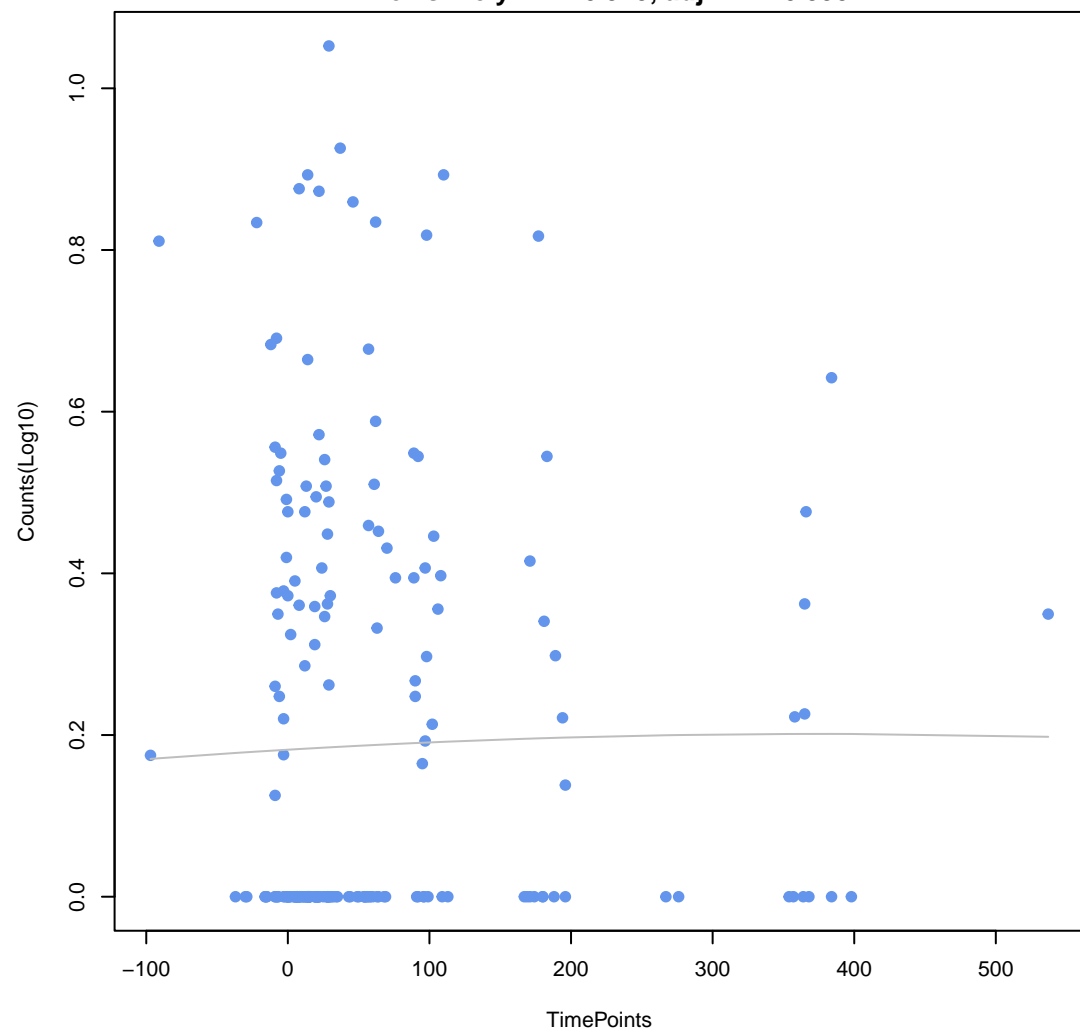




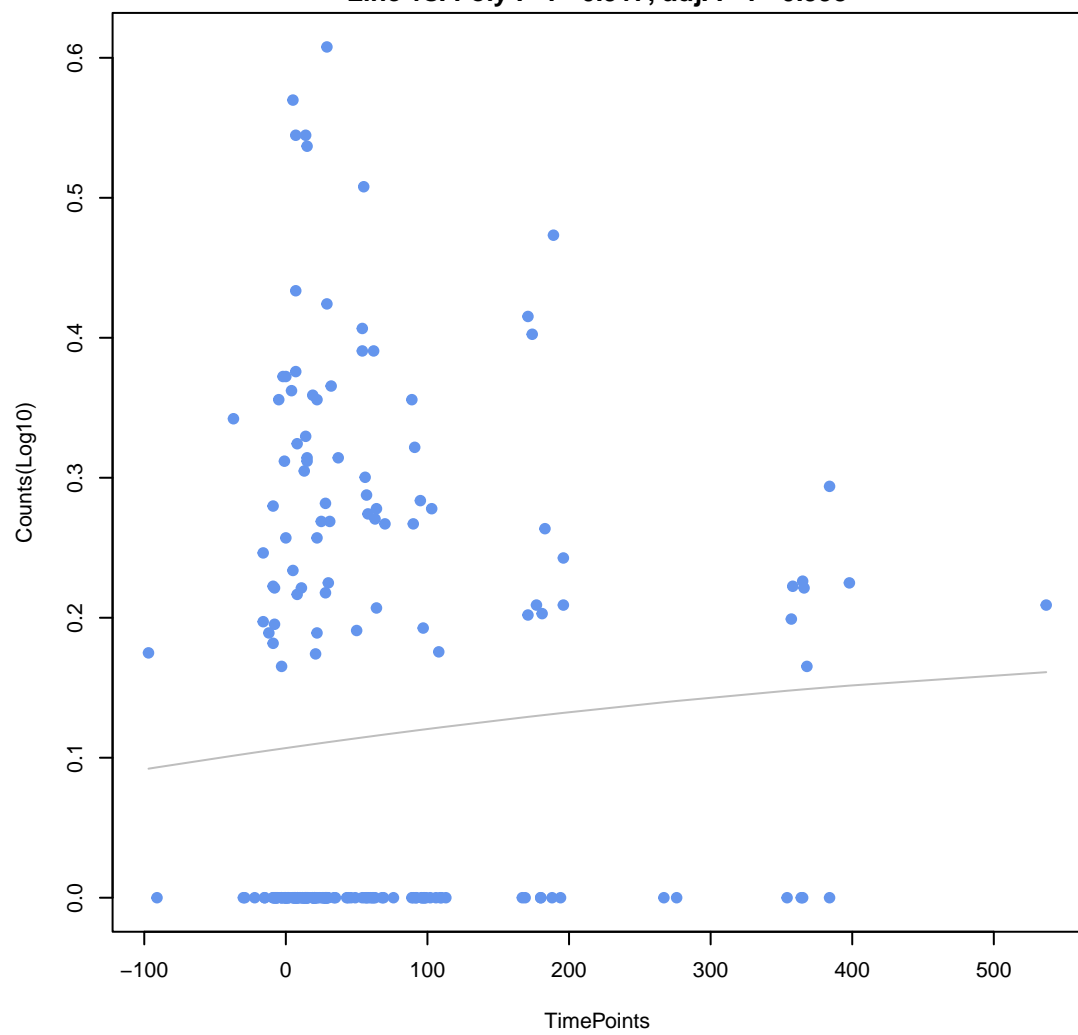
**mdeA**  
ANOVA P=0.797, adj. ANOVA-P=0.908  
Line vs. Poly F-P=0.907, adj. F-P=0.993



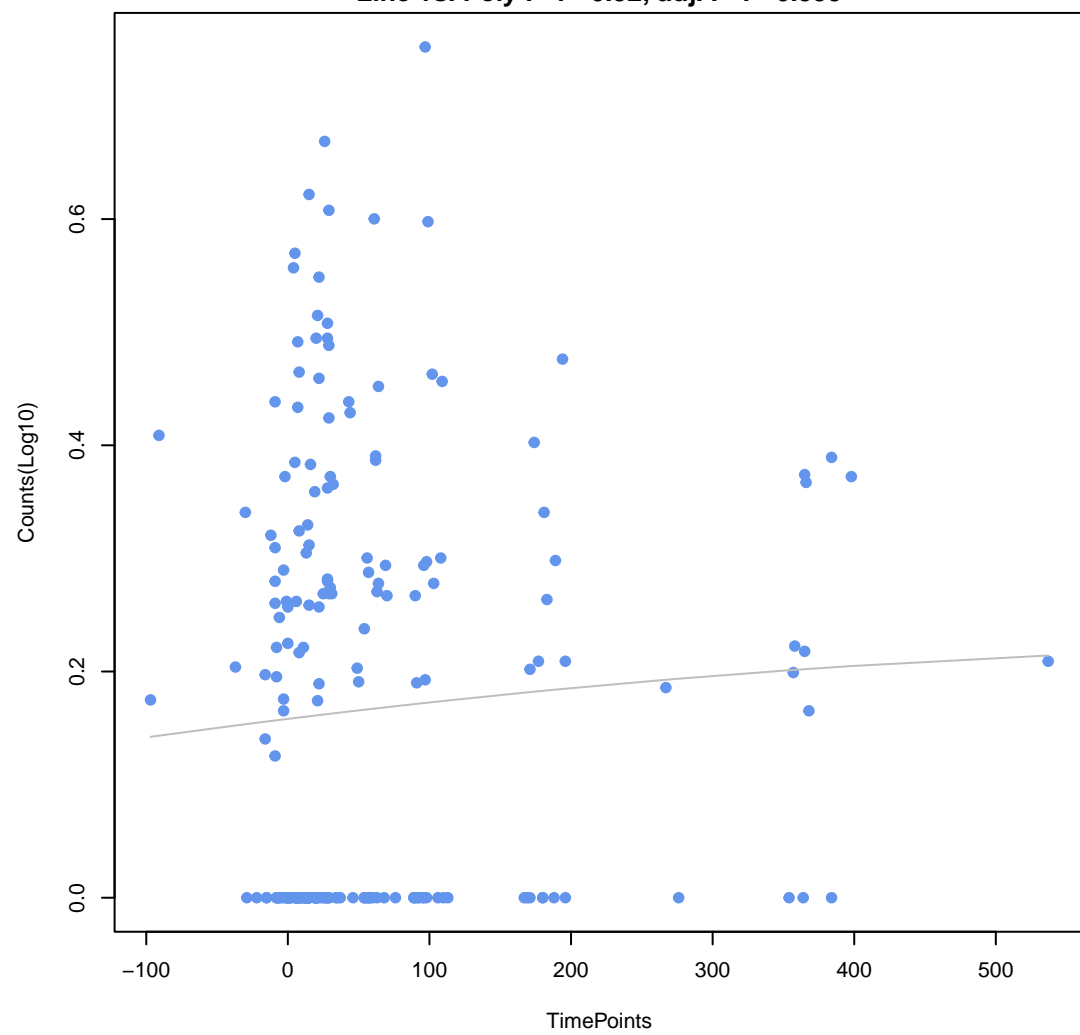
**oqxB**  
ANOVA P=0.95, adj. ANOVA-P=0.968  
Line vs. Poly F-P=0.915, adj. F-P=0.993



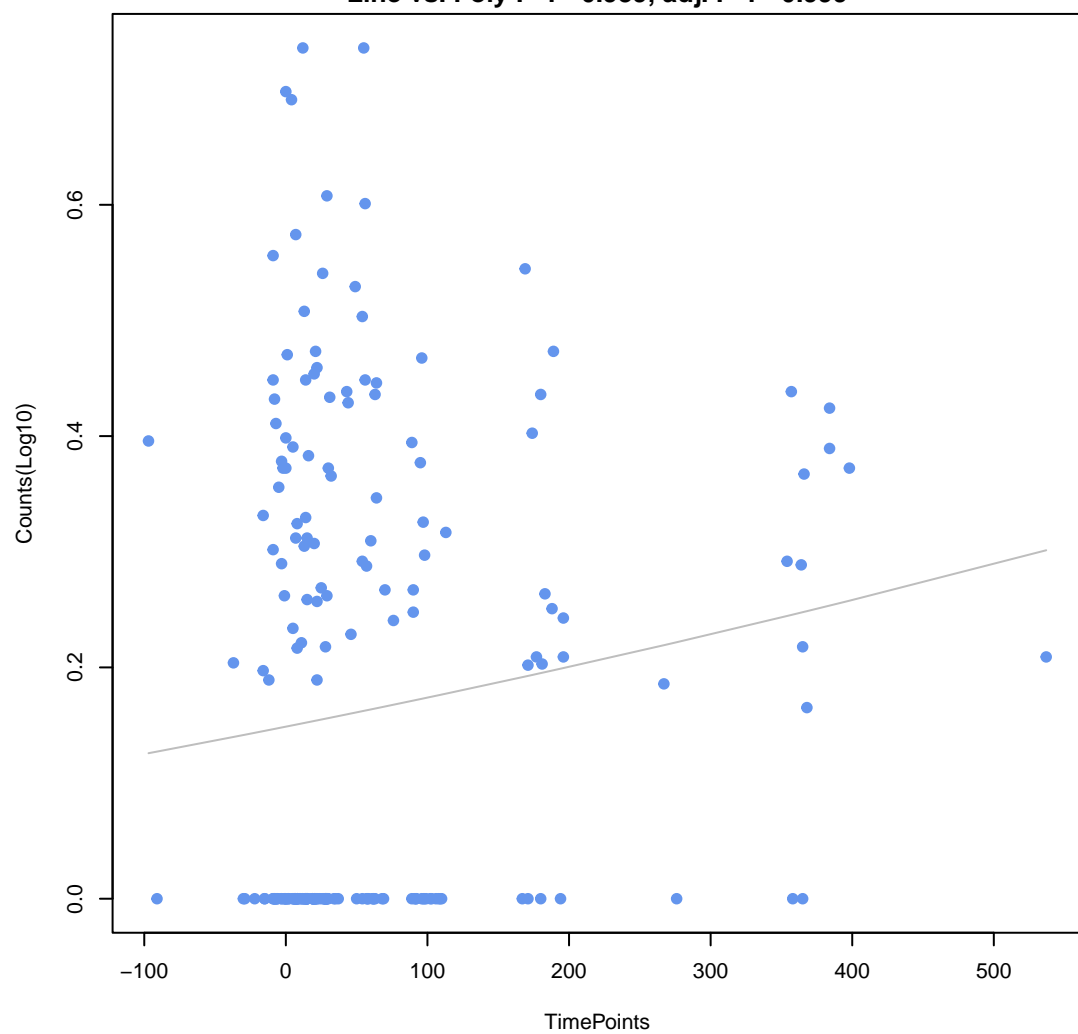
**Escherichia coli soxR with mutation conferring antibiotic resistance**  
ANOVA P=0.576, adj. ANOVA-P=0.822  
Line vs. Poly F-P=0.917, adj. F-P=0.993



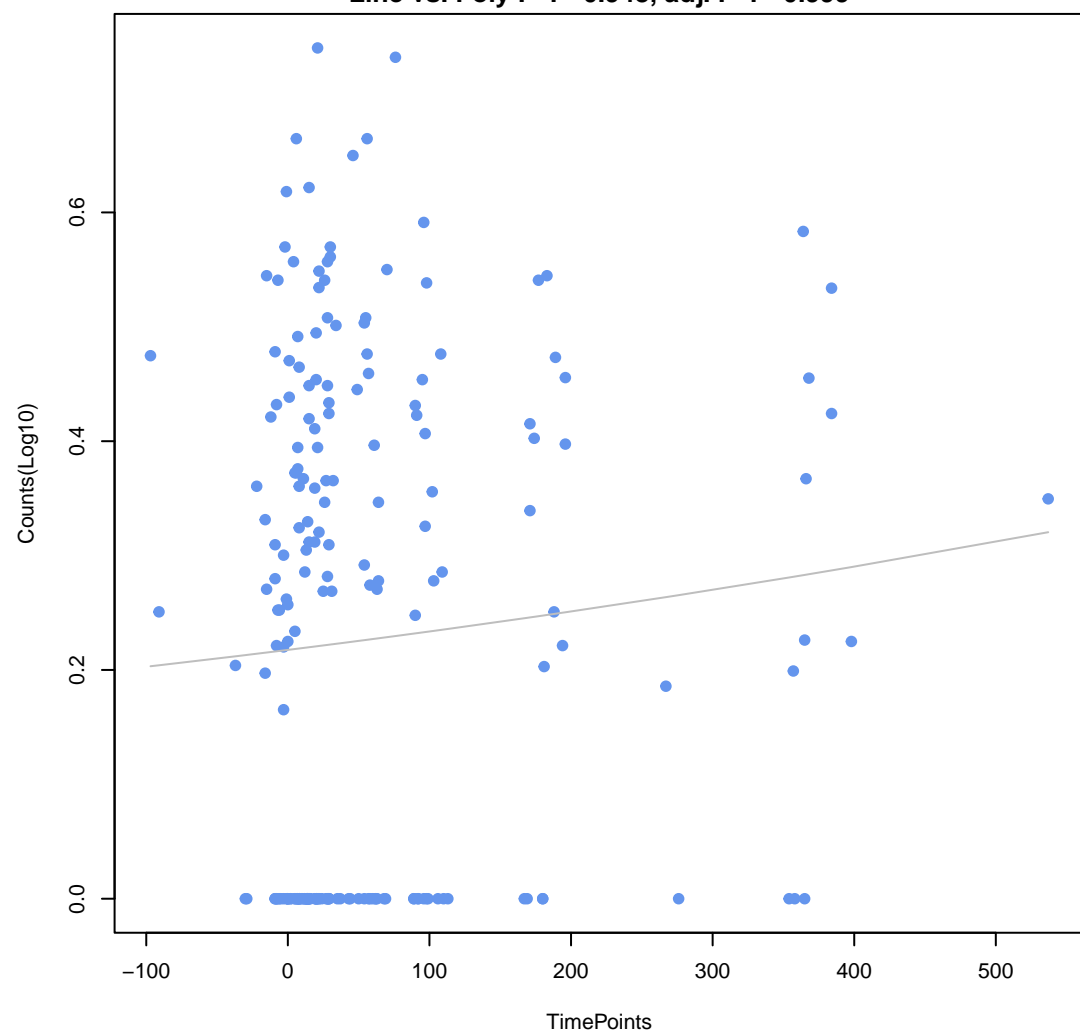
**Escherichia coli mdfA**  
ANOVA P=0.654, adj. ANOVA-P=0.861  
Line vs. Poly F-P=0.92, adj. F-P=0.993



**baeS**  
ANOVA P=0.161, adj. ANOVA-P=0.725  
Line vs. Poly F-P=0.939, adj. F-P=0.999

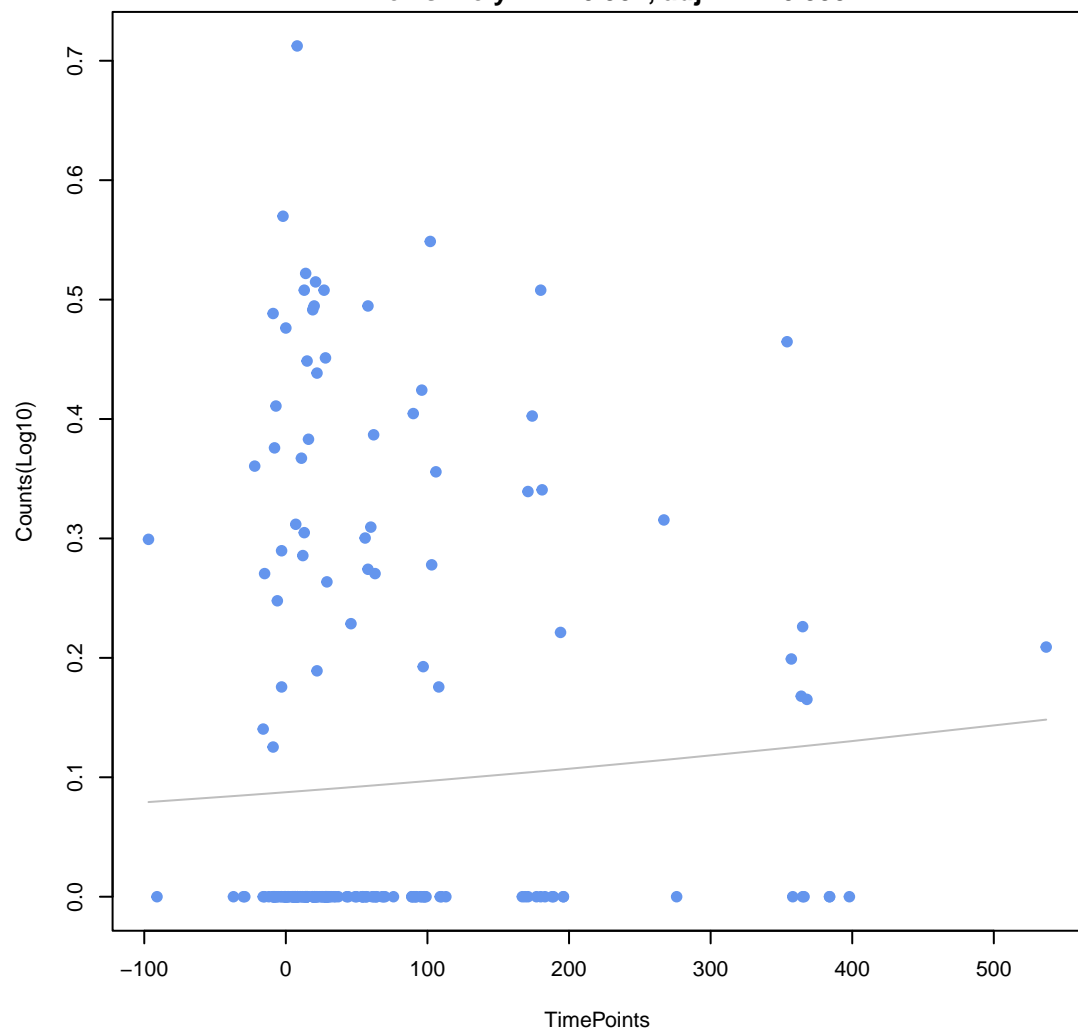


**cpxA**  
ANOVA P=0.516, adj. ANOVA-P=0.822  
Line vs. Poly F-P=0.948, adj. F-P=0.999



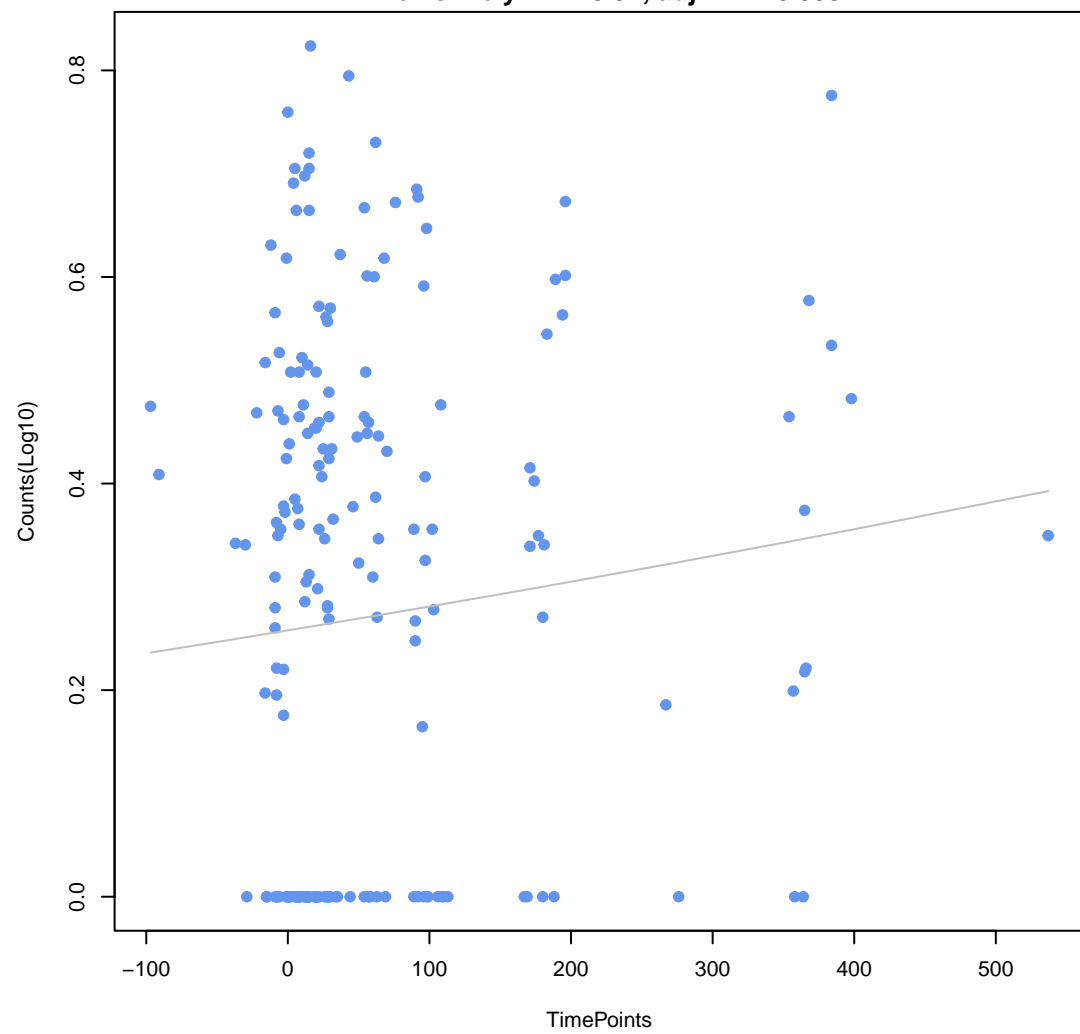
**tet(W/N/W)**

**ANOVA P=0.679, adj. ANOVA-P=0.863**  
**Line vs. Poly F-P=0.957, adj. F-P=0.999**



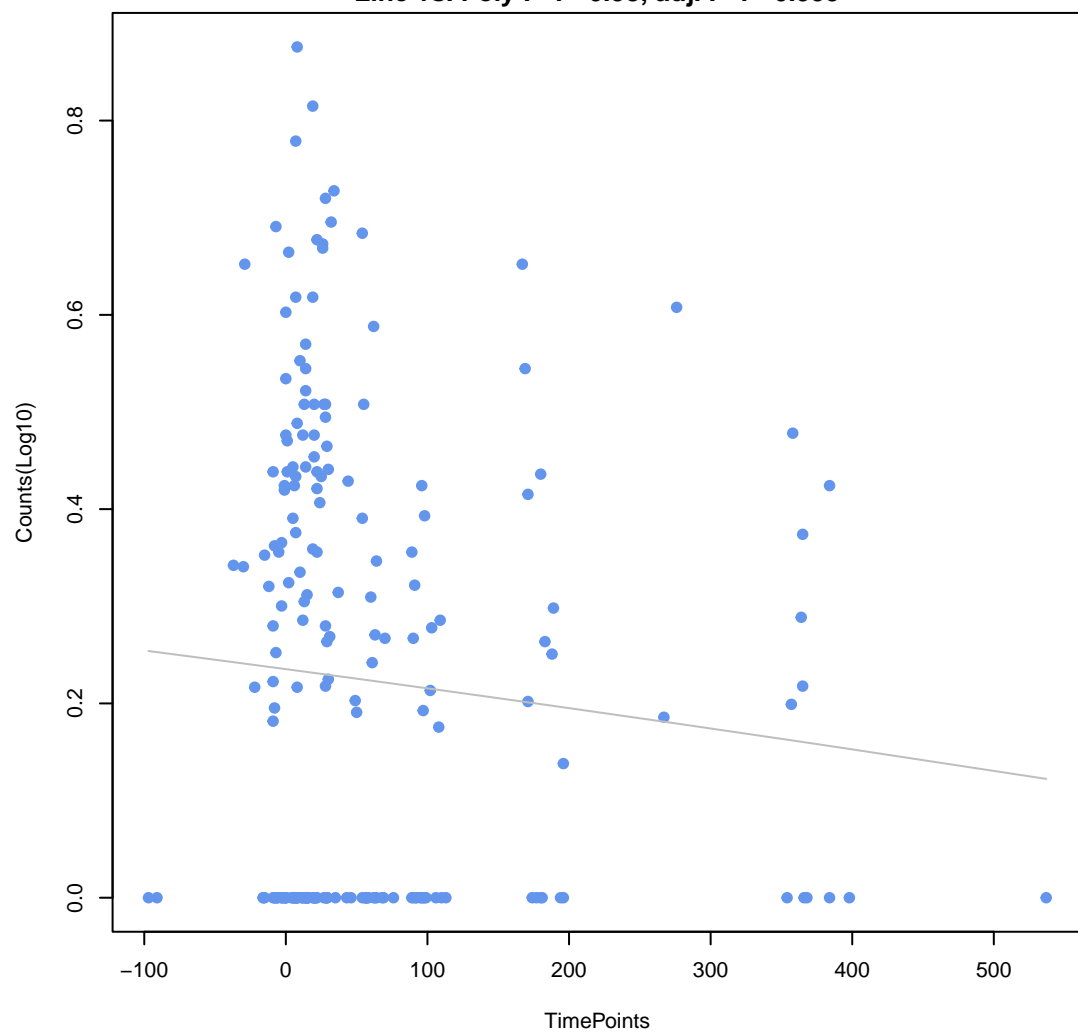
**acrB**

**ANOVA P=0.388, adj. ANOVA-P=0.809**  
**Line vs. Poly F-P=0.97, adj. F-P=0.999**



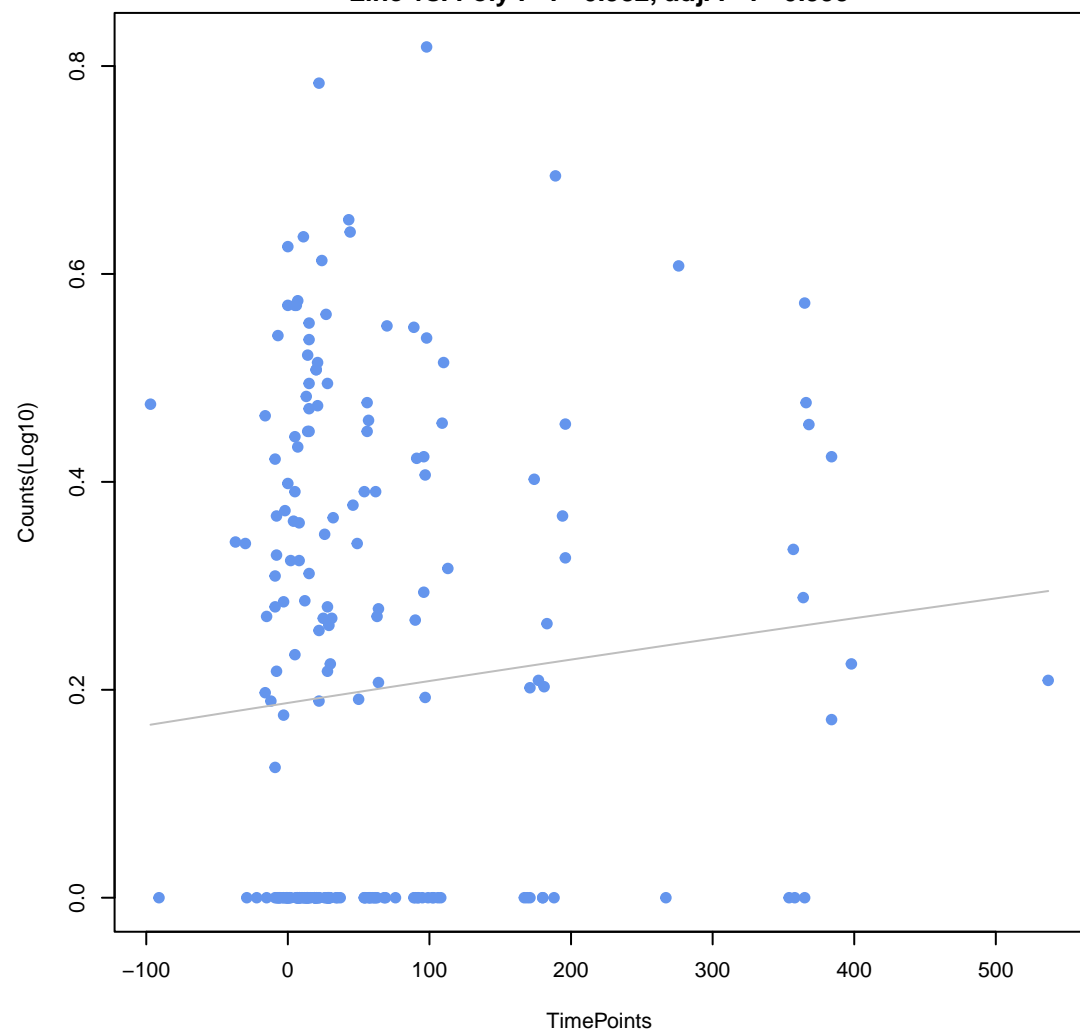
**vanA**

**ANOVA P=0.47, adj. ANOVA-P=0.818**  
**Line vs. Poly F-P=0.98, adj. F-P=0.999**



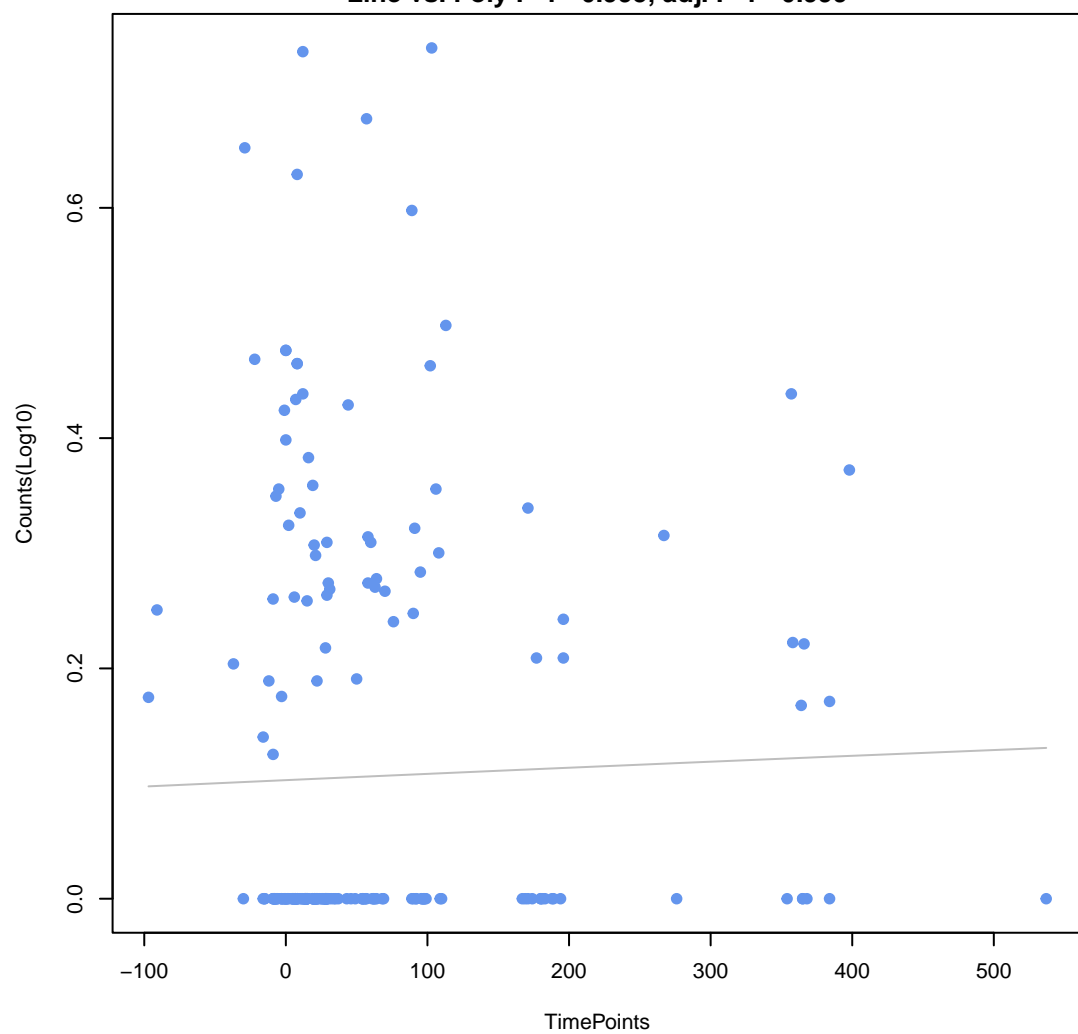
**mdtO**

**ANOVA P=0.427, adj. ANOVA-P=0.809**  
**Line vs. Poly F-P=0.982, adj. F-P=0.999**



**vanX gene in vanD cluster**

**ANOVA P=0.912, adj. ANOVA-P=0.947**  
**Line vs. Poly F-P=0.995, adj. F-P=0.999**



**efrB**

**ANOVA P=0.801, adj. ANOVA-P=0.908**  
**Line vs. Poly F-P=0.999, adj. F-P=0.999**

