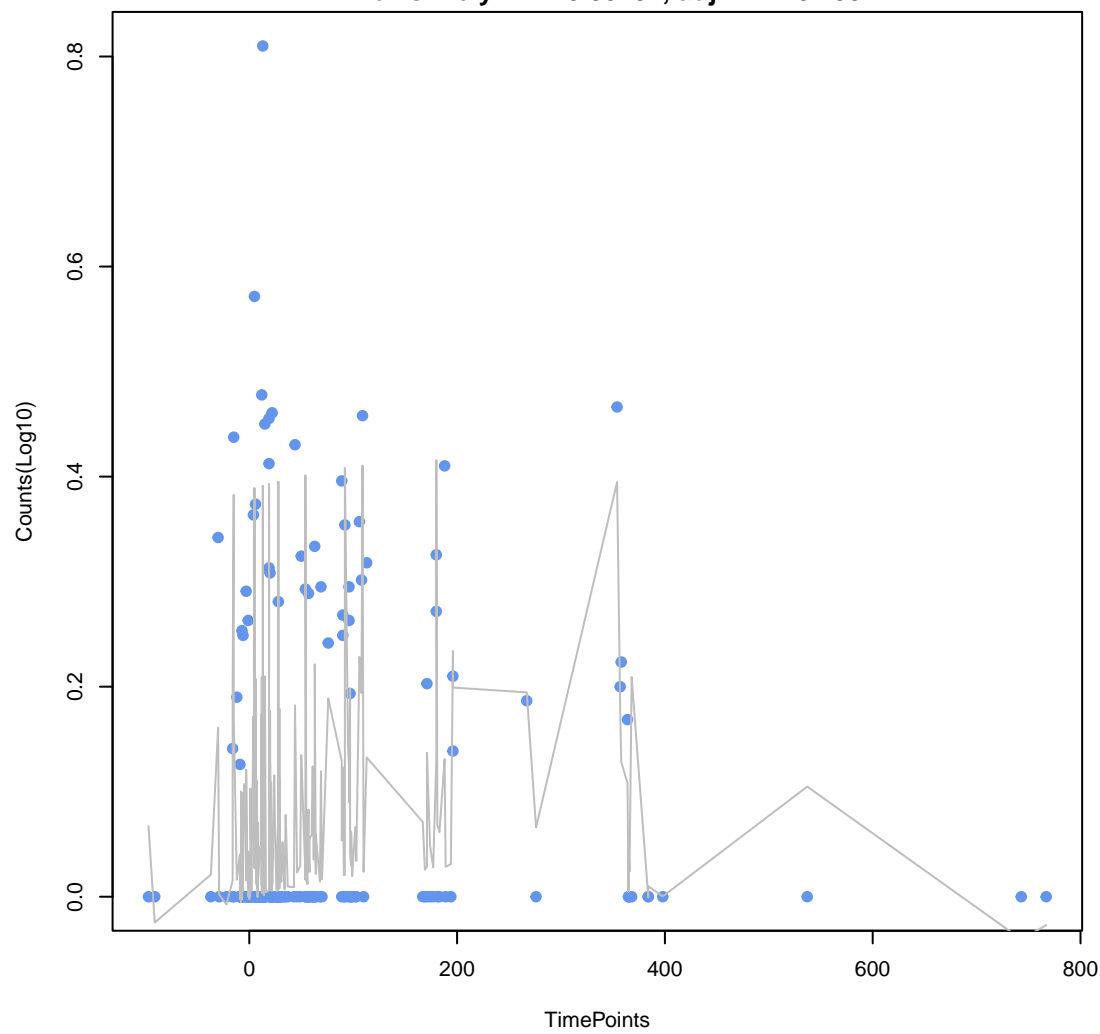
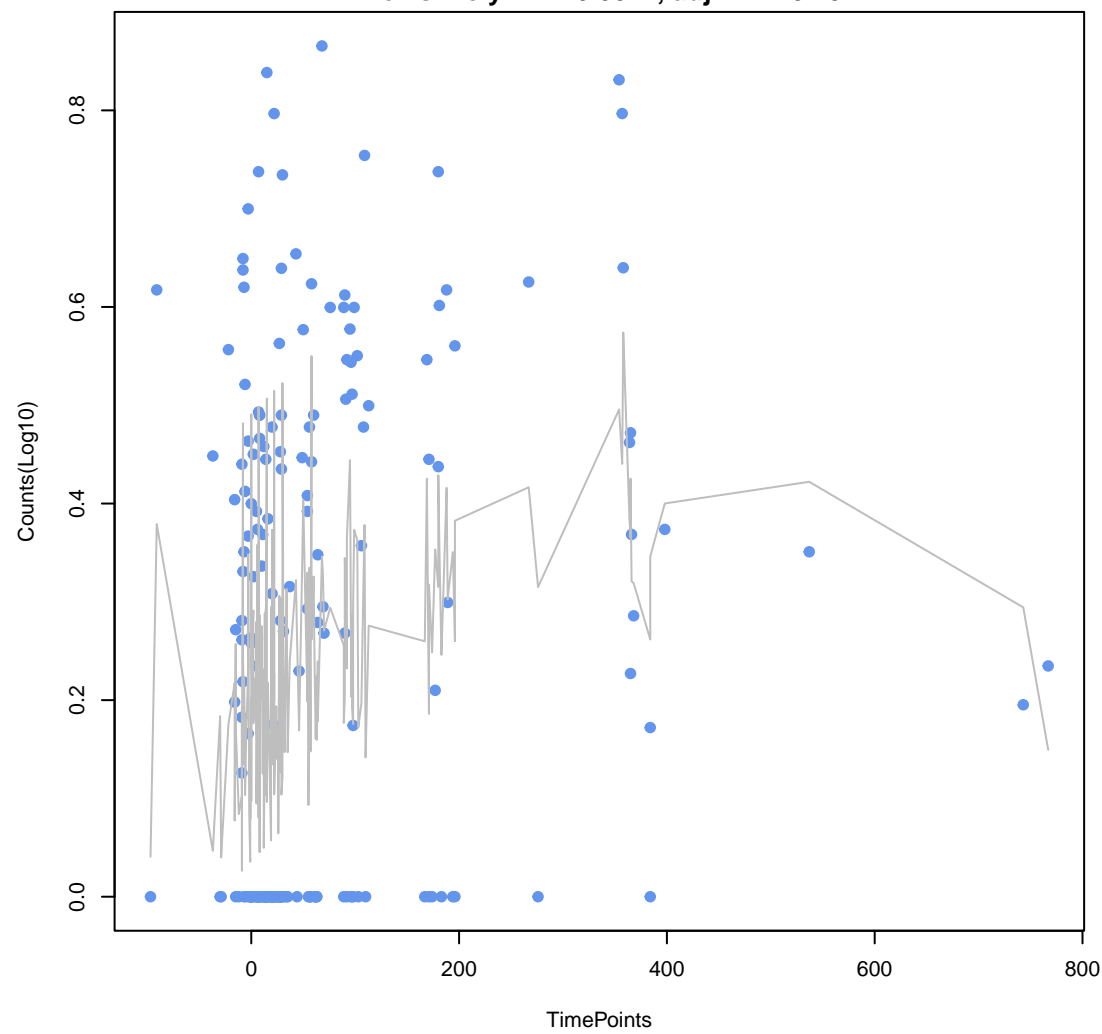


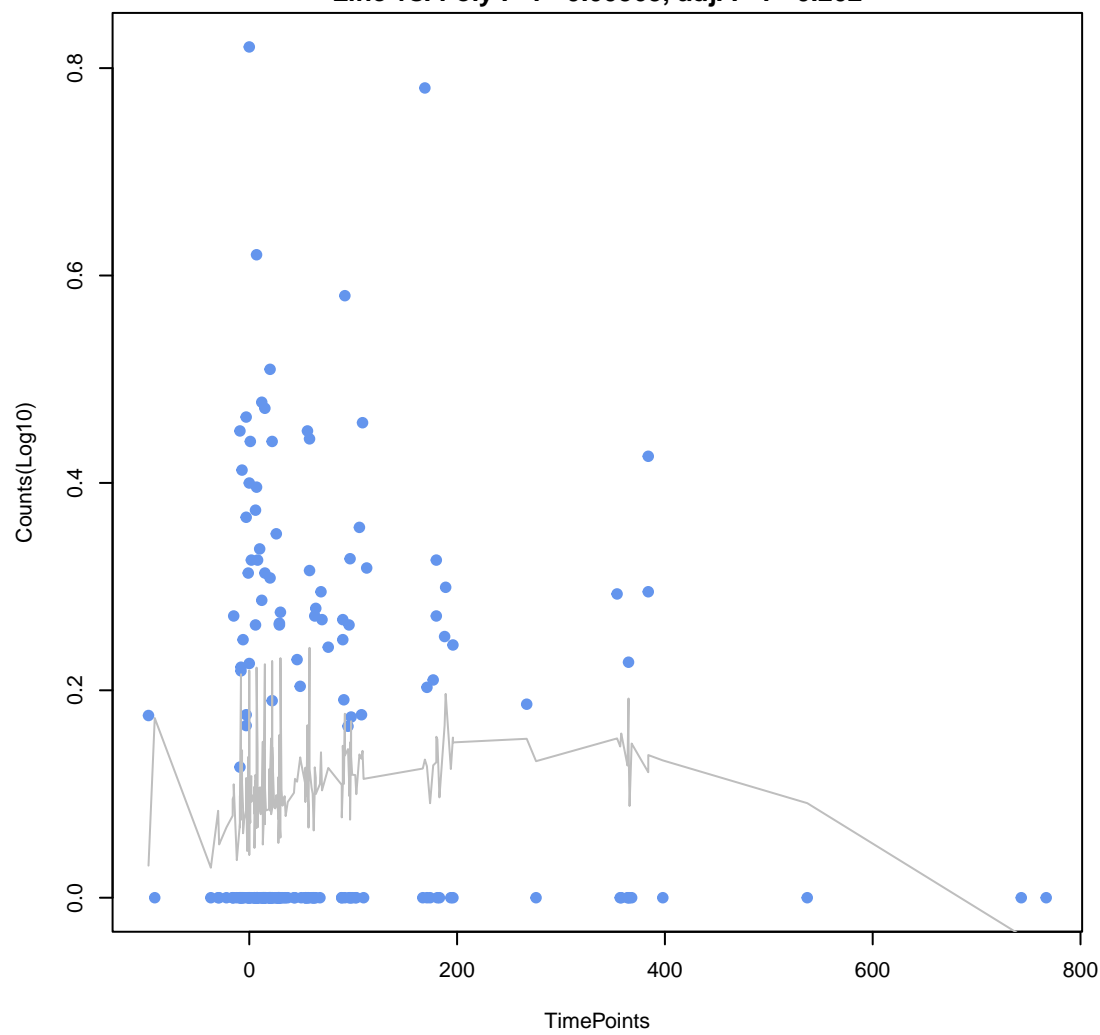
vanR gene in vanE cluster
ANOVA $P=0.0068$, adj. ANOVA- $P=0.138$
Line vs. Poly F- $P=0.00182$, adj. F- $P=0.195$



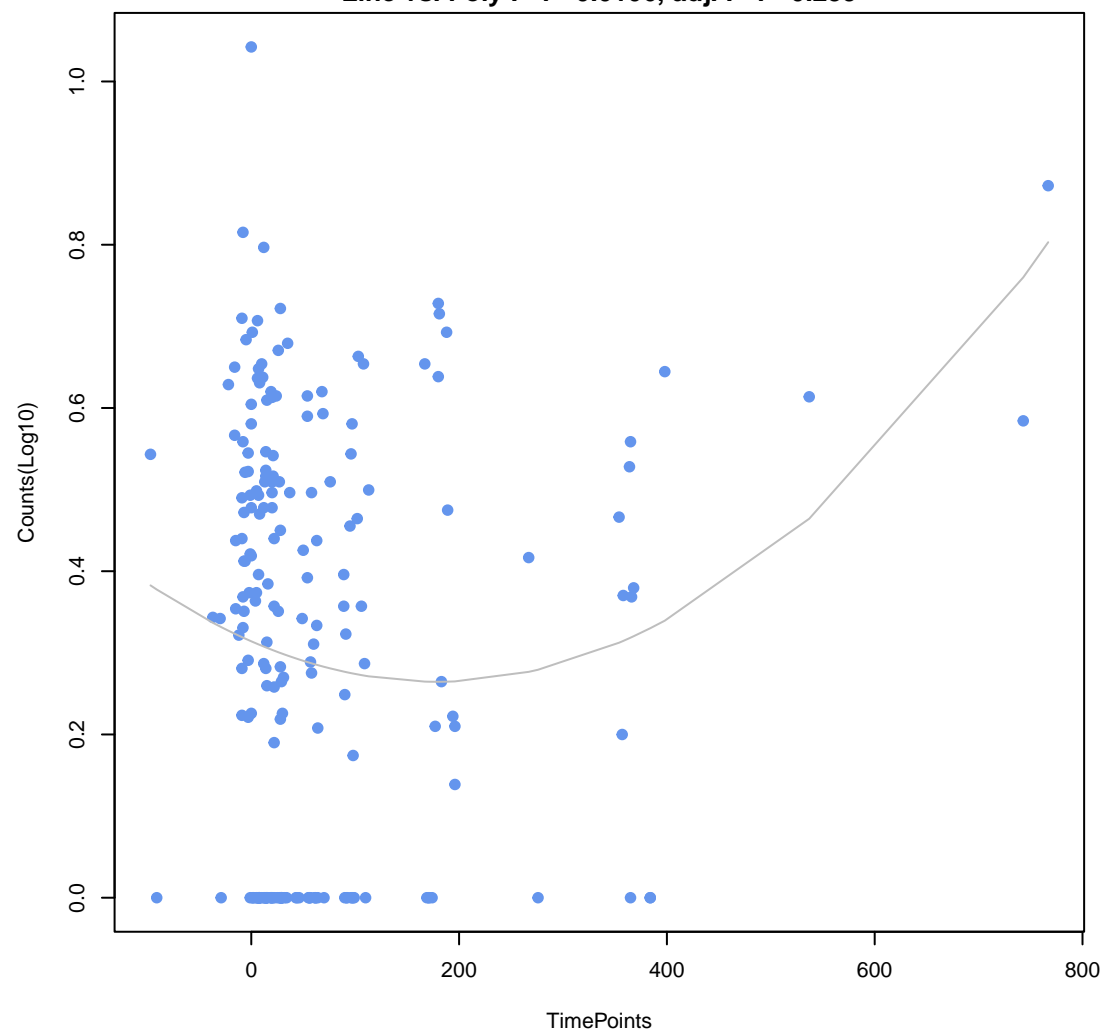
nimJ
ANOVA $P=0.000235$, adj. ANOVA- $P=0.0126$
Line vs. Poly F- $P=0.0041$, adj. F- $P=0.202$



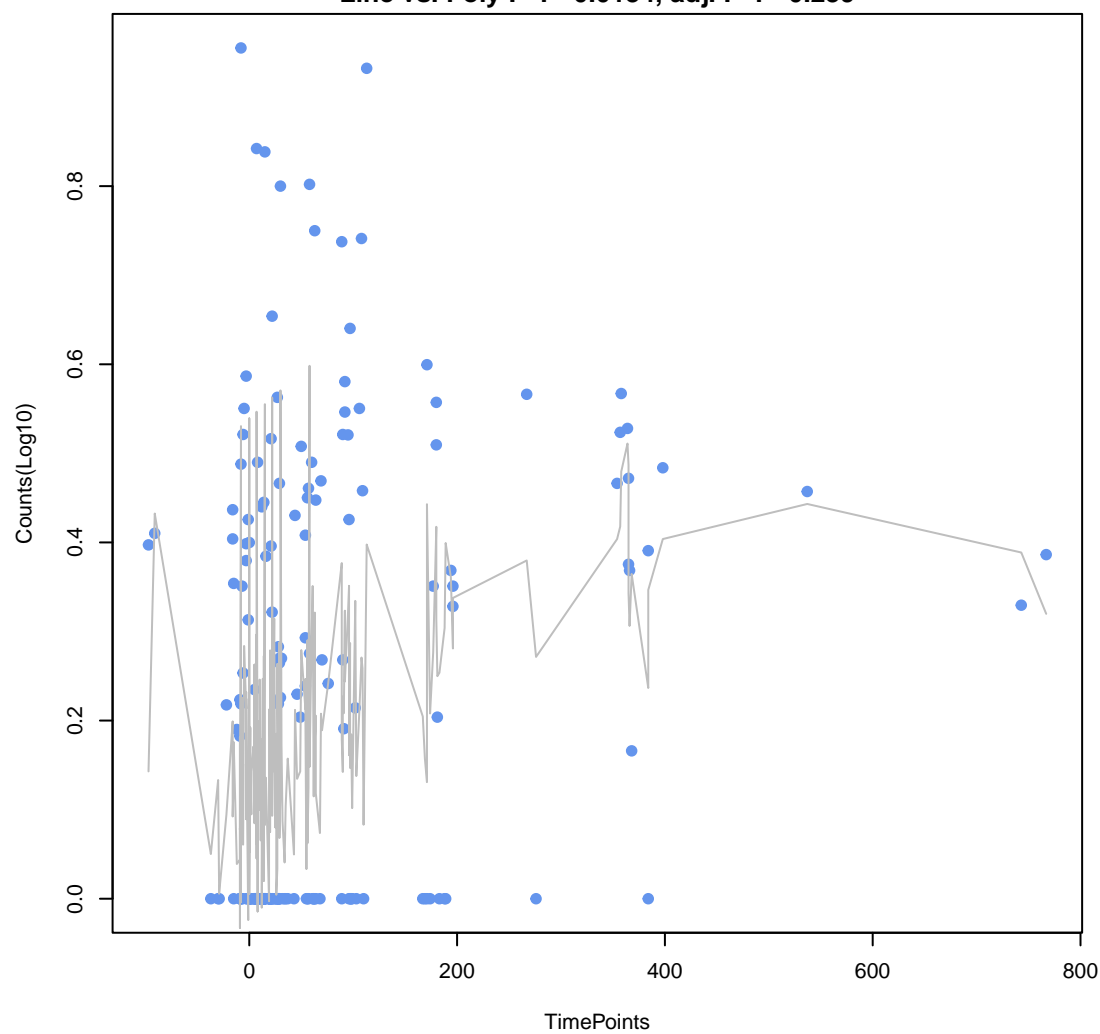
farB
ANOVA $P=0.107$, adj. ANOVA- $P=0.51$
Line vs. Poly F- $P=0.00565$, adj. F- $P=0.202$



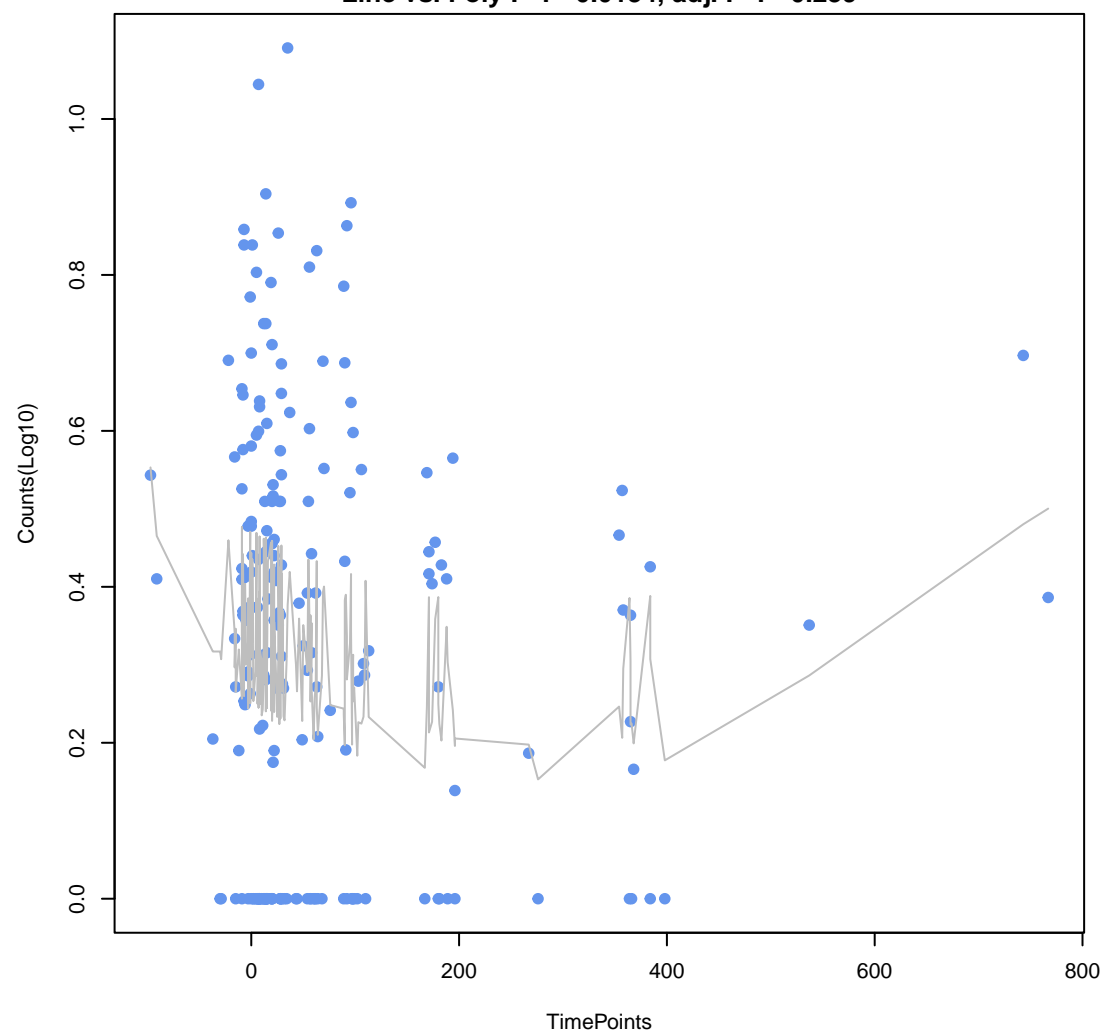
BlaB-16
ANOVA $P=0.0149$, adj. ANOVA- $P=0.178$
Line vs. Poly F- $P=0.0106$, adj. F- $P=0.239$



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

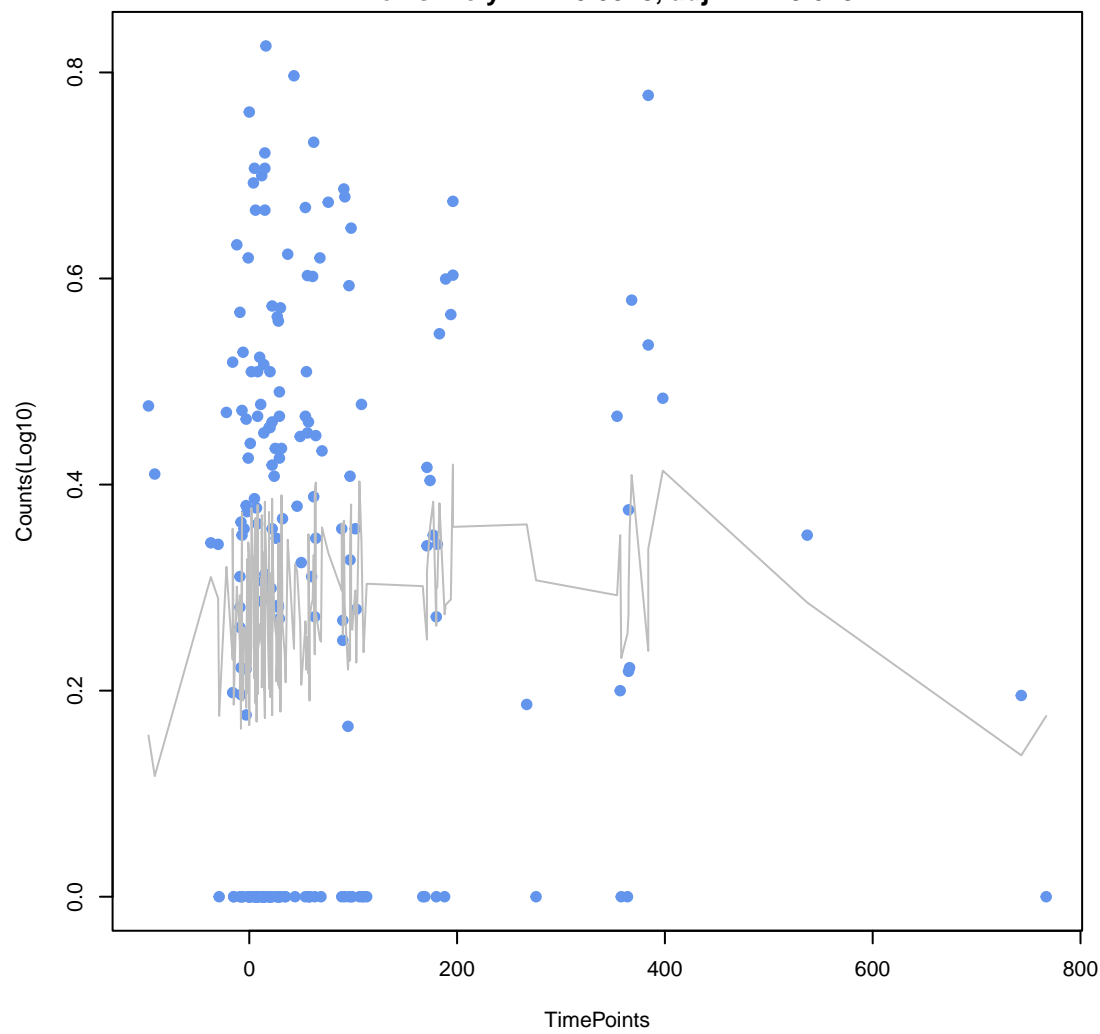


Bifidobacterium adolescentis rpoB mutants conferring resistance to rifampicin
ANOVA $P=0.0993$, adj. ANOVA- $P=0.506$
Line vs. Poly F- $P=0.0134$, adj. F- $P=0.239$



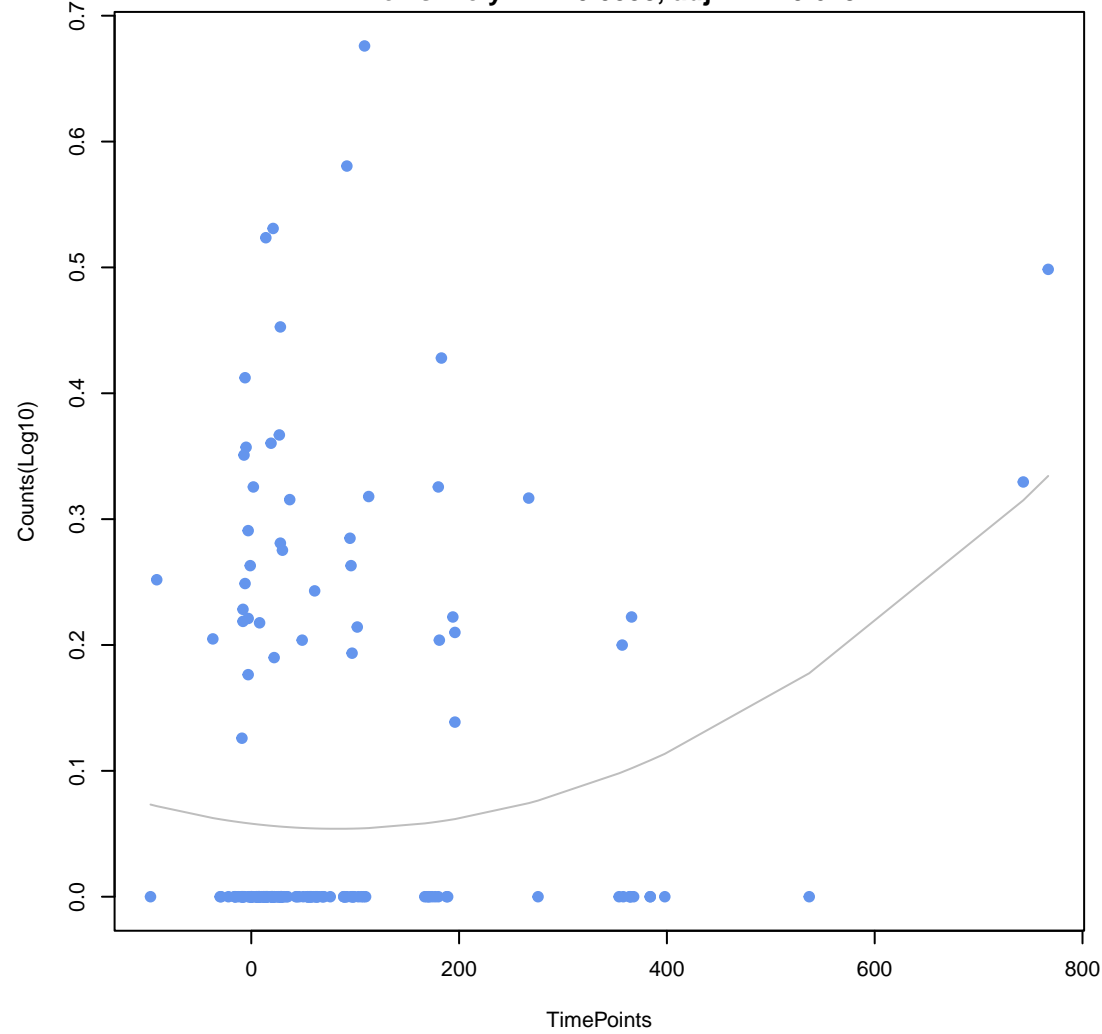
acrB

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



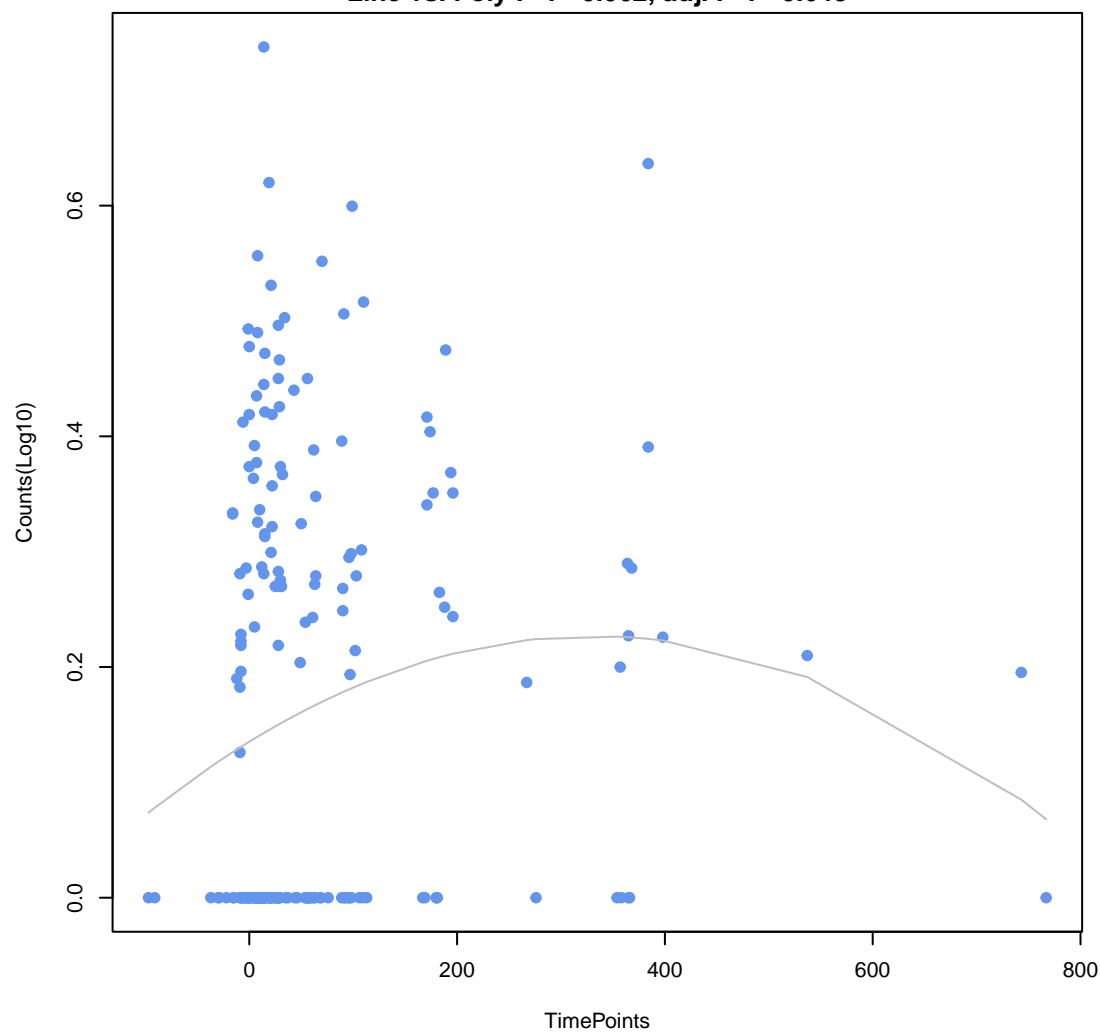
adeA

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



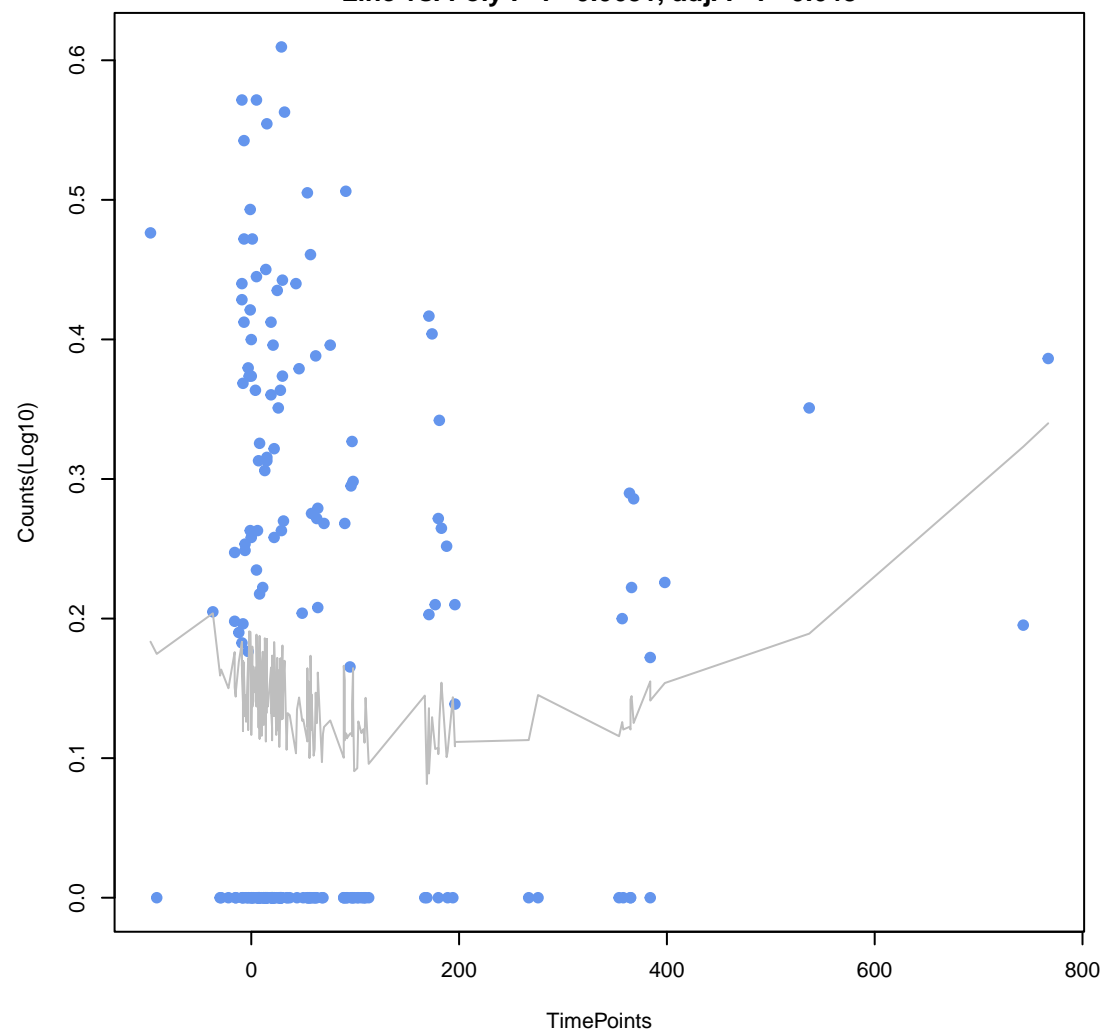
mdtM

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



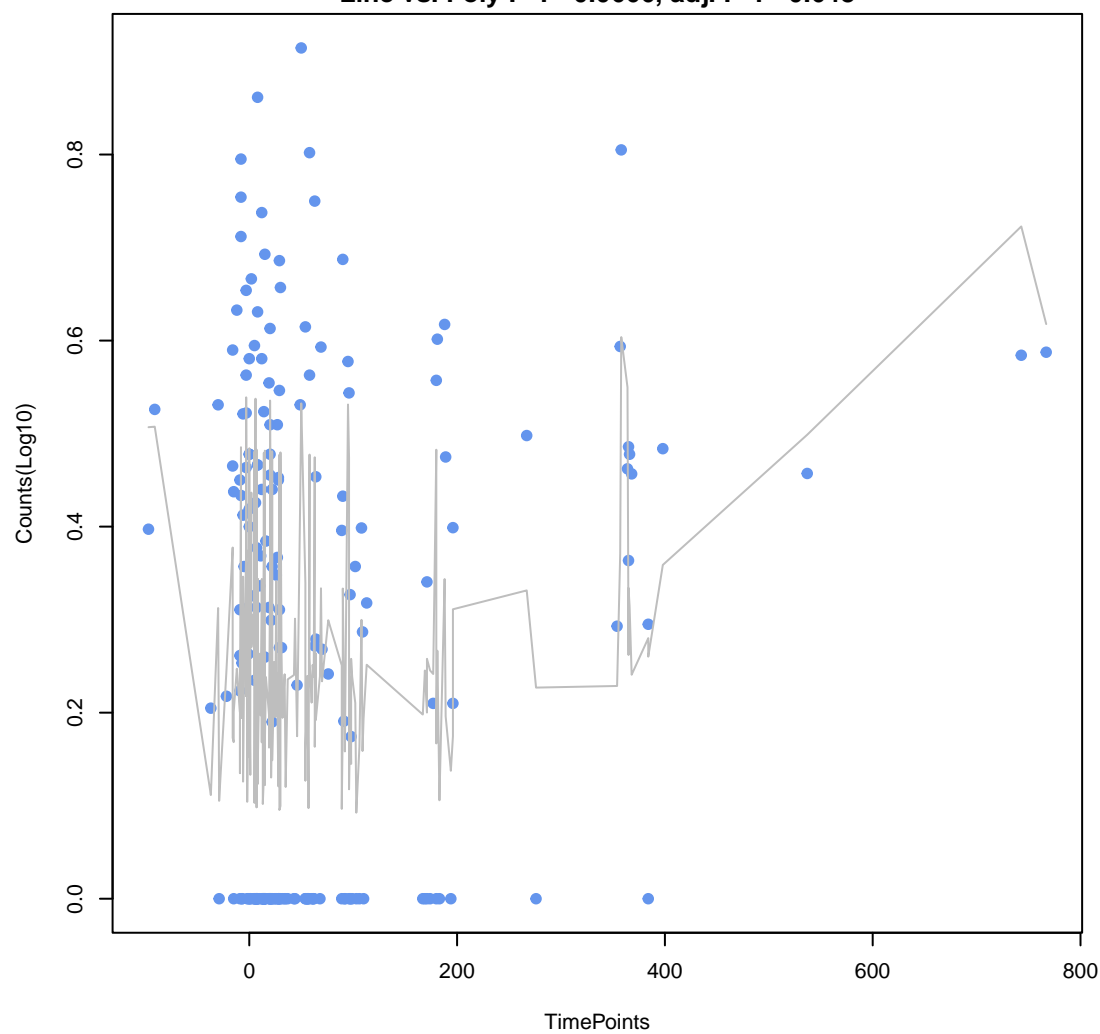
YojI

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



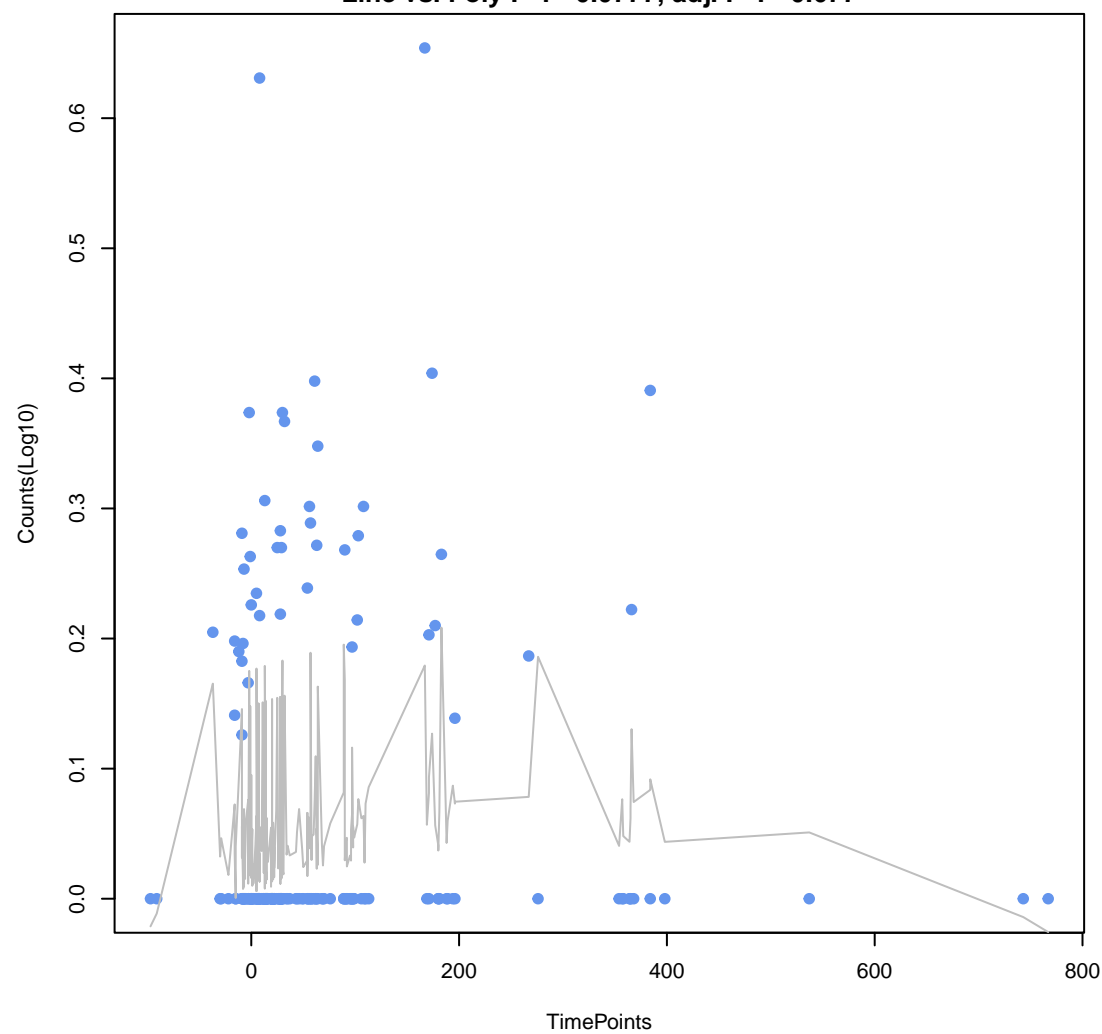
mefH

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

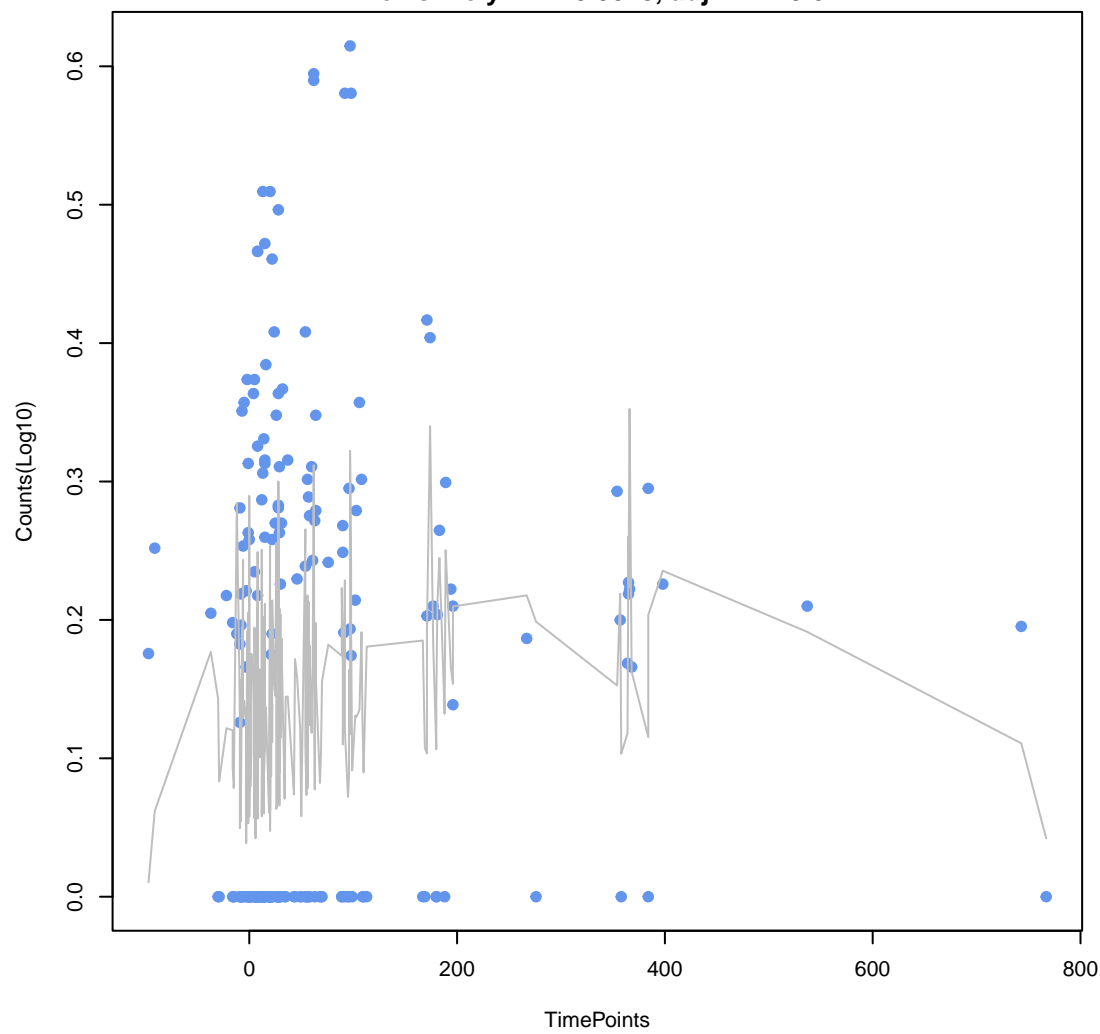


Escherichia coli GlpT with mutation conferring resistance to fosfomycin

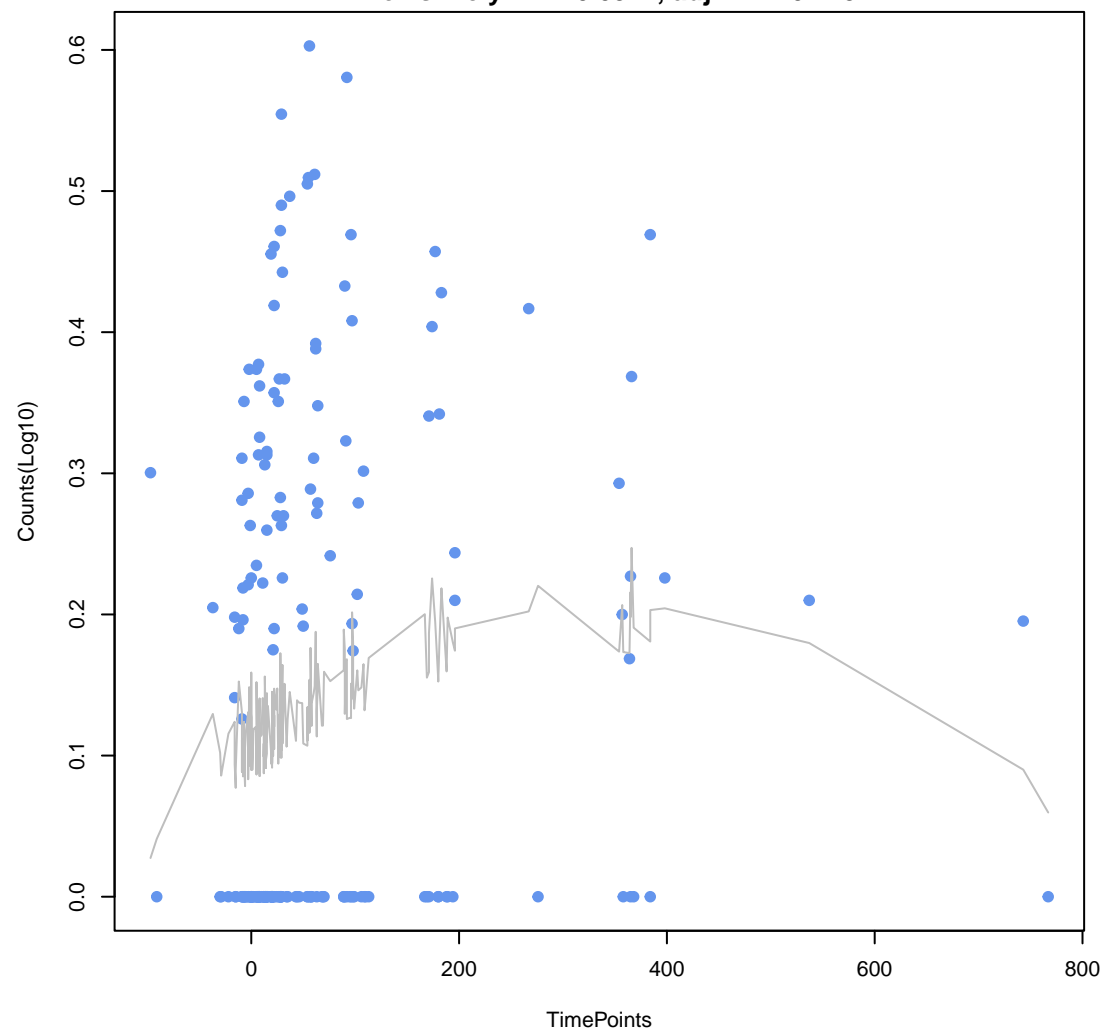
ANOVA P=0.185, adj. ANOVA-P=0.637
Line vs. Poly F-P=0.0777, adj. F-P=0.677



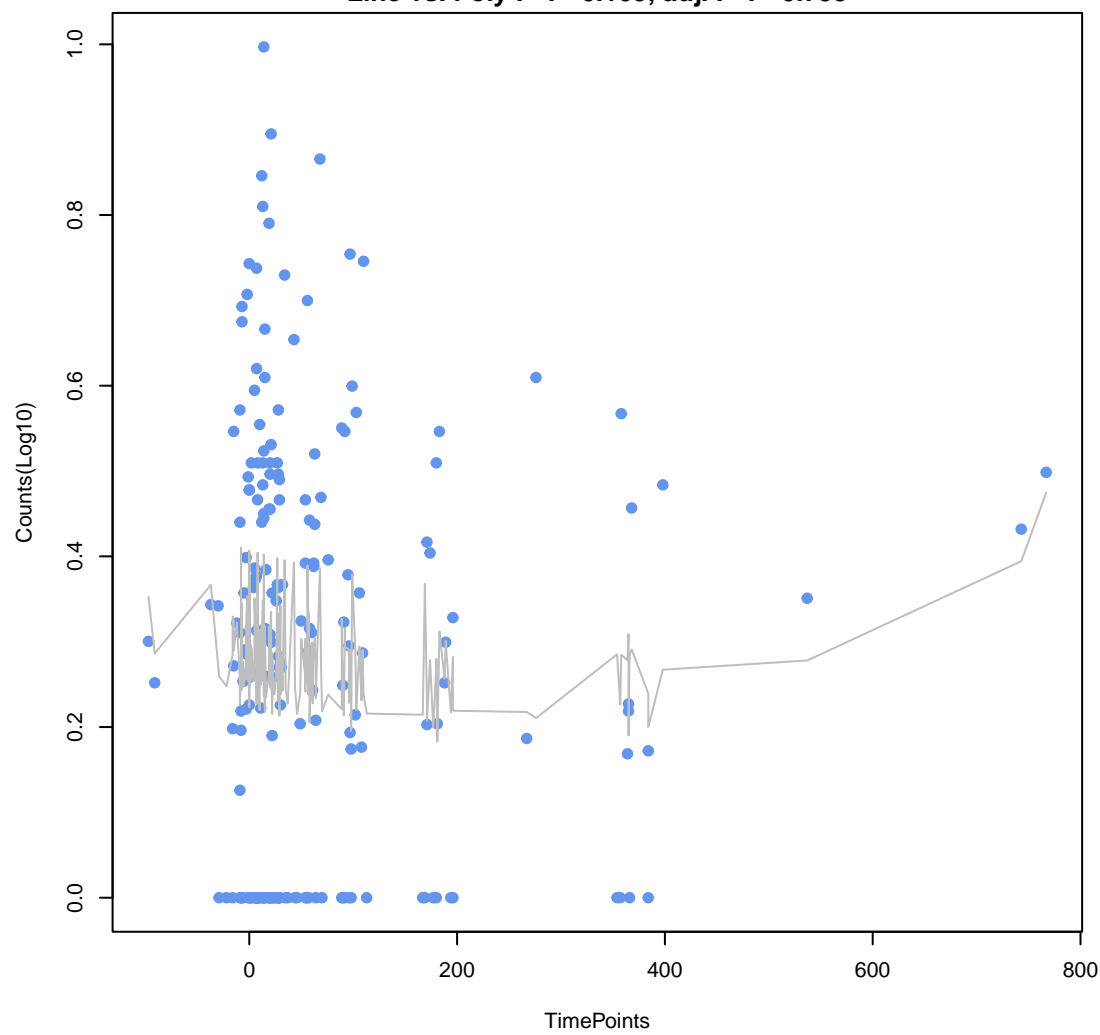
Escherichia coli EF-Tu mutants conferring resistance to Pulvomycin
ANOVA P=0.128, adj. ANOVA-P=0.526
Line vs. Poly F-P=0.0823, adj. F-P=0.677



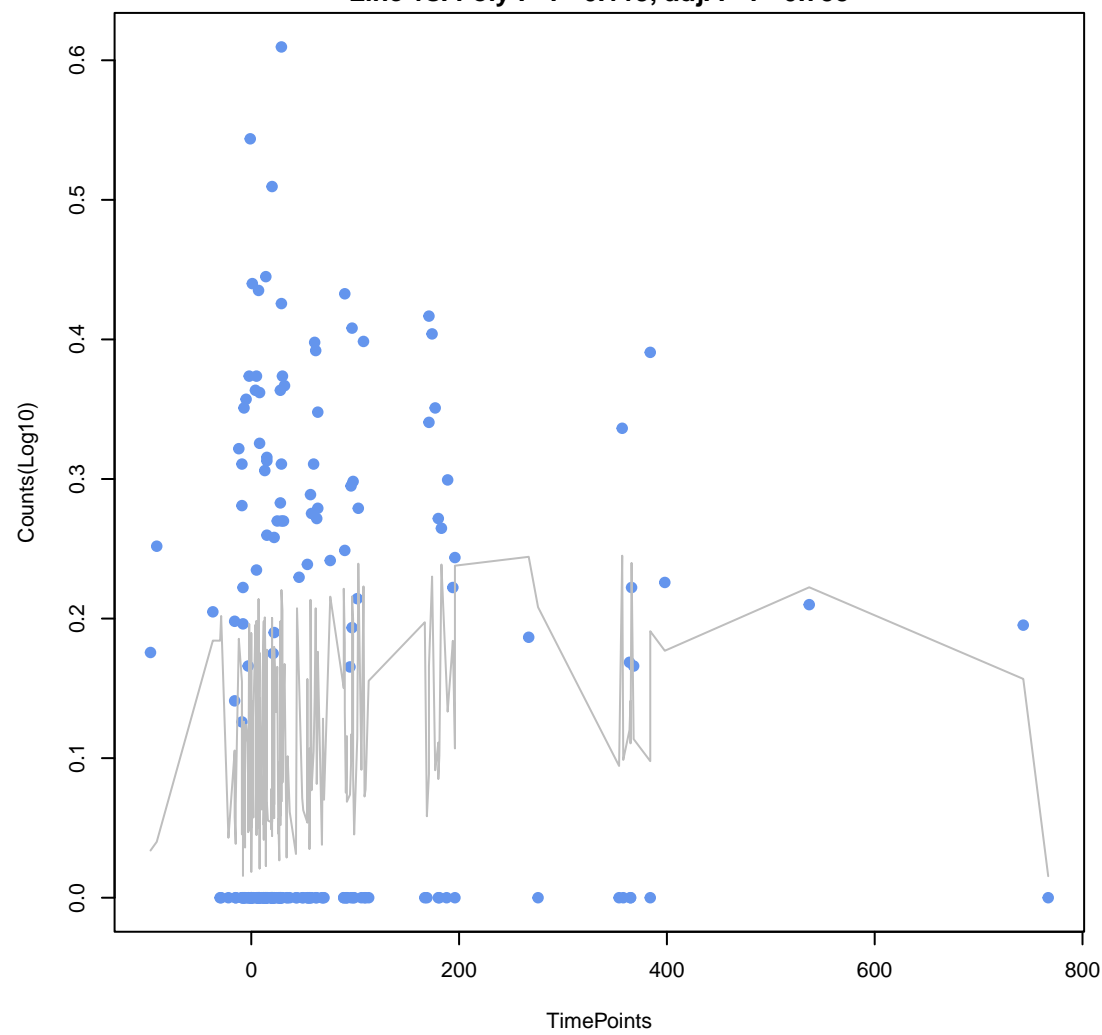
emrB
ANOVA P=0.0571, adj. ANOVA-P=0.432
Line vs. Poly F-P=0.0974, adj. F-P=0.745



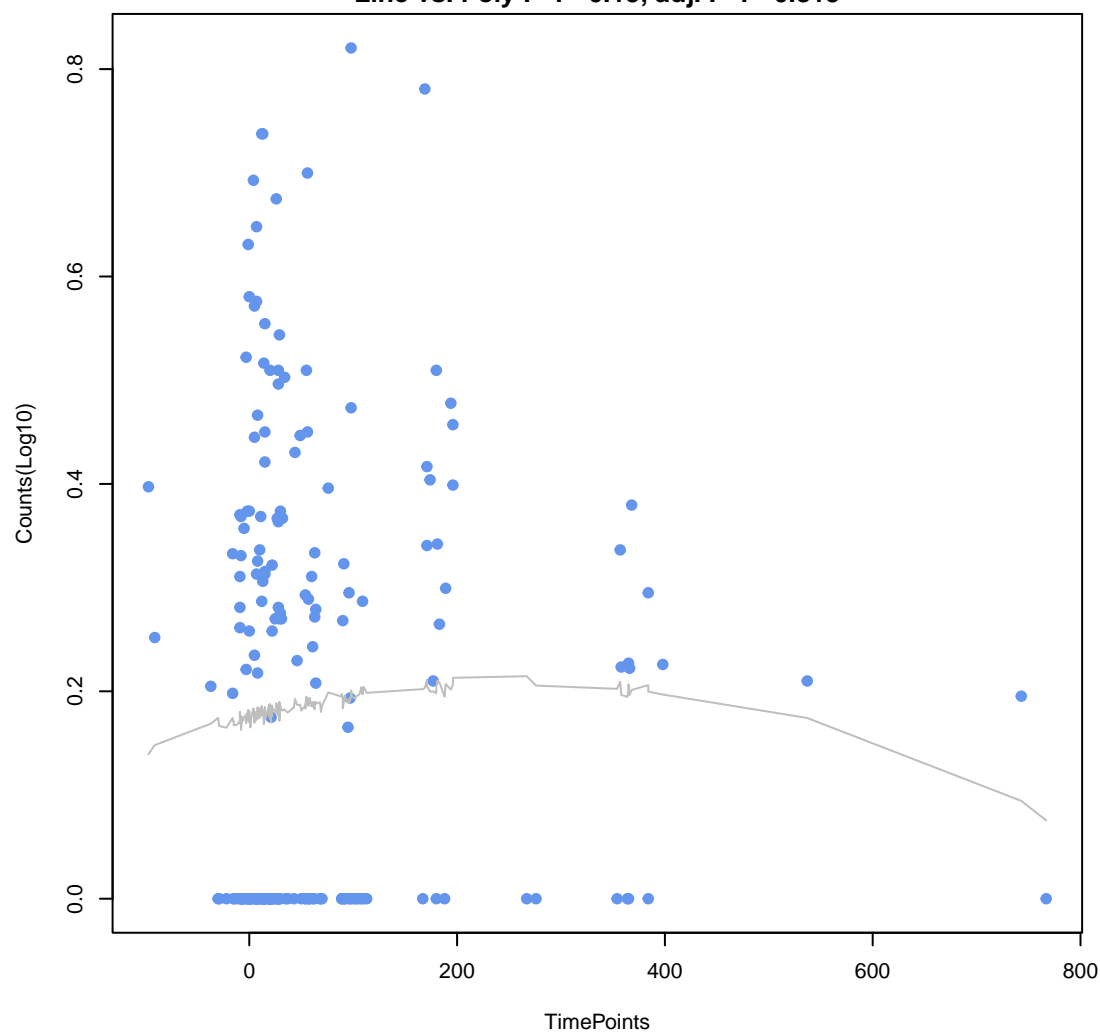
efrB
ANOVA P=0.447, adj. ANOVA-P=0.803
Line vs. Poly F-P=0.109, adj. F-P=0.755



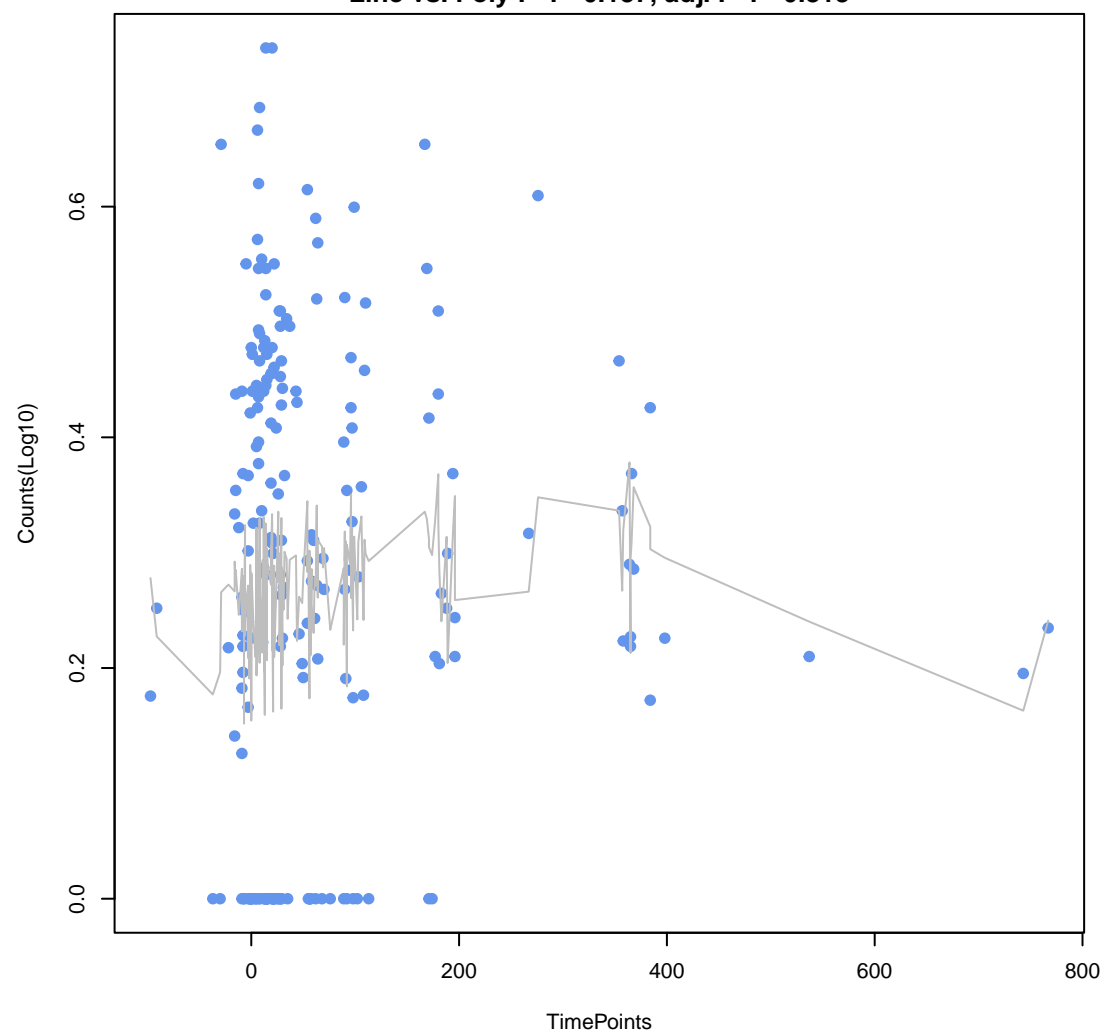
Escherichia coli soxS with mutation conferring antibiotic resistance
ANOVA P=0.226, adj. ANOVA-P=0.684
Line vs. Poly F-P=0.113, adj. F-P=0.755



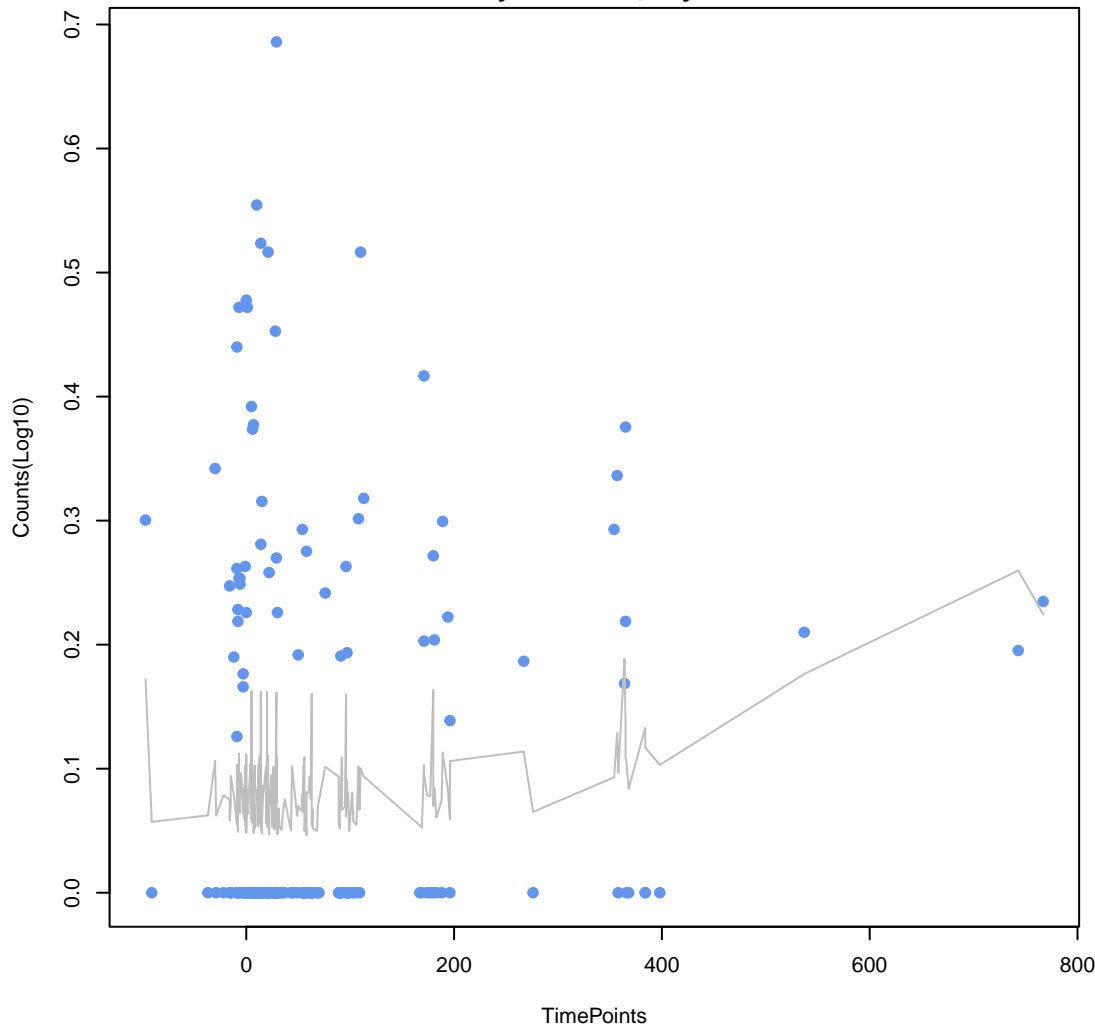
ToIC
ANOVA P=0.612, adj. ANOVA-P=0.832
Line vs. Poly F-P=0.13, adj. F-P=0.813



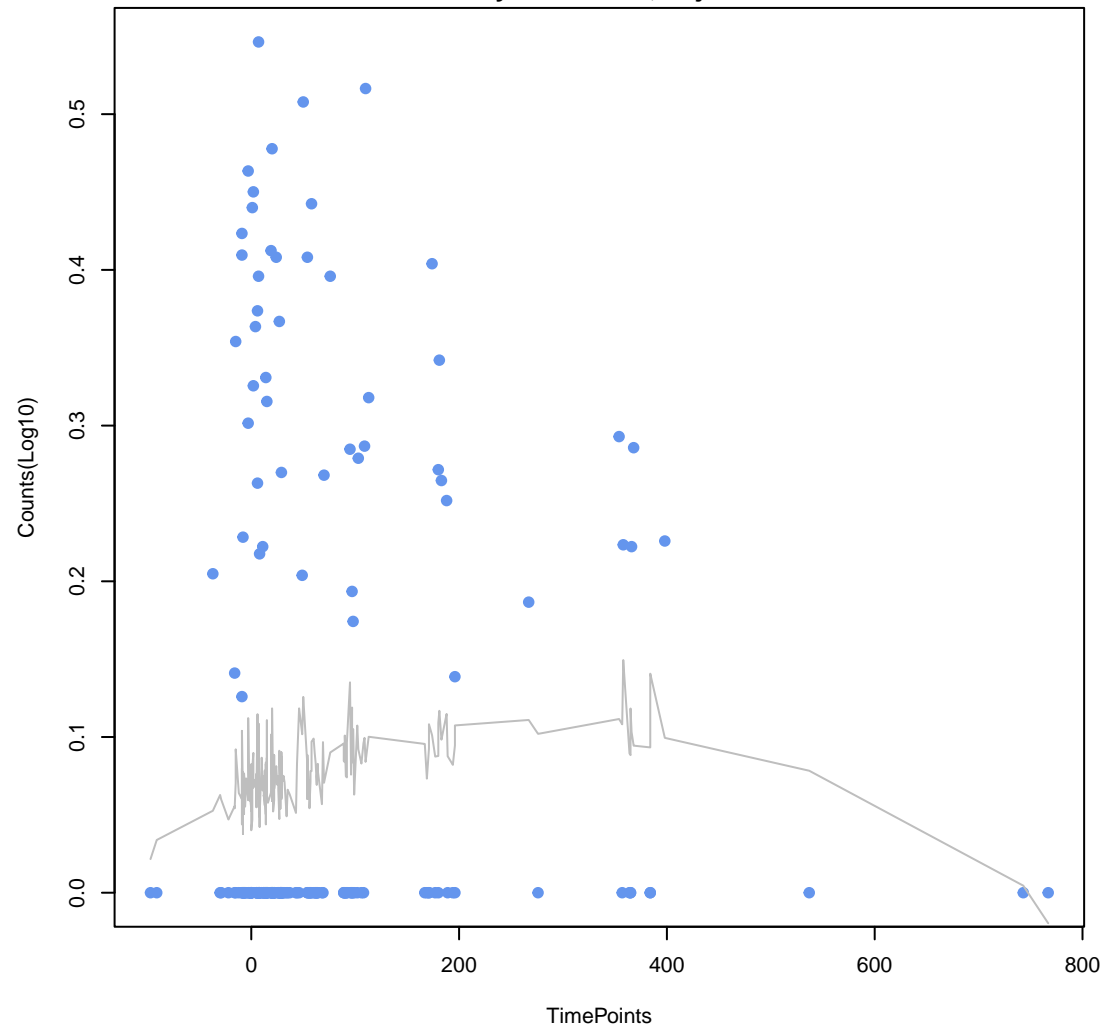
SAT-4
ANOVA P=0.341, adj. ANOVA-P=0.777
Line vs. Poly F-P=0.137, adj. F-P=0.813



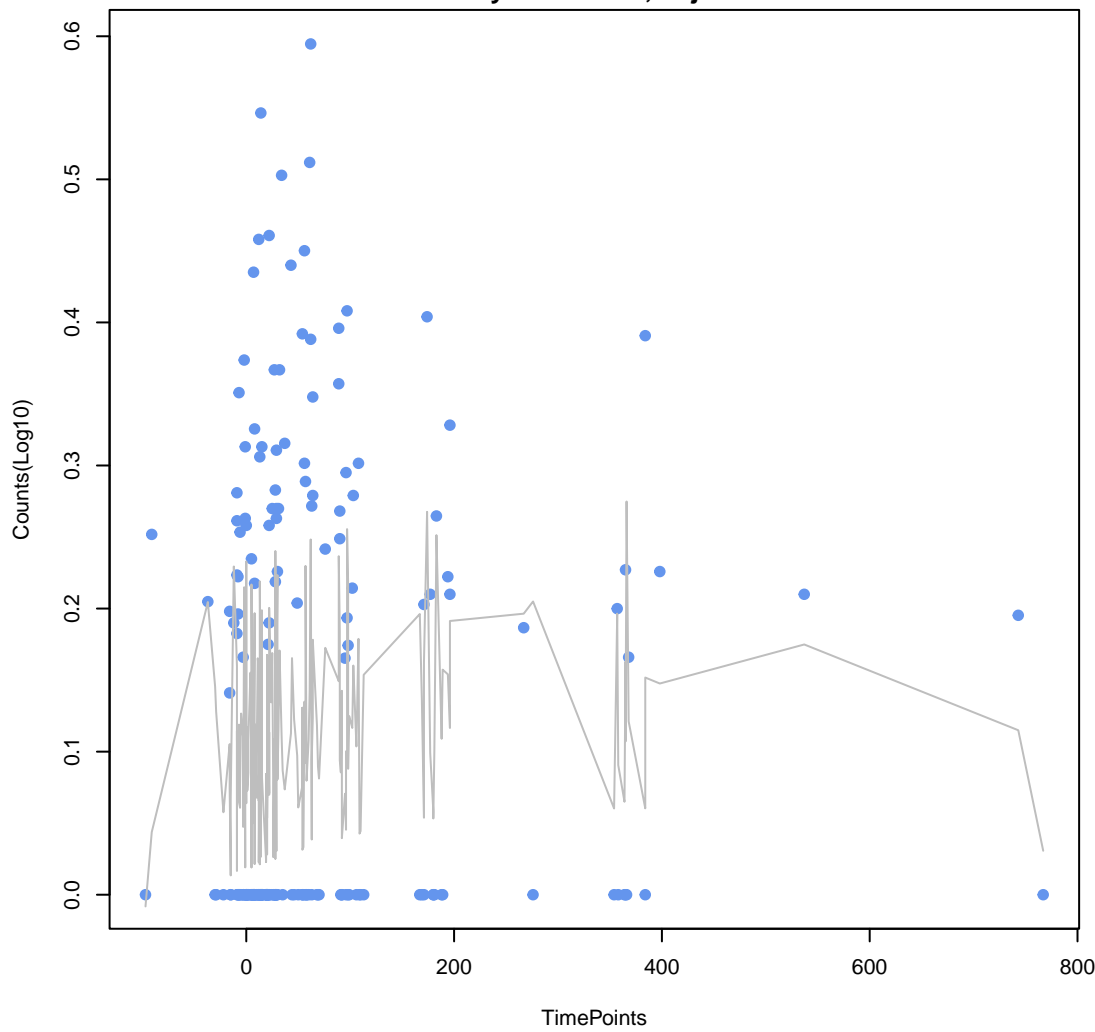
Streptomyces rimosus otr(A)
ANOVA P=0.218, adj. ANOVA-P=0.684
Line vs. Poly F-P=0.16, adj. F-P=0.865



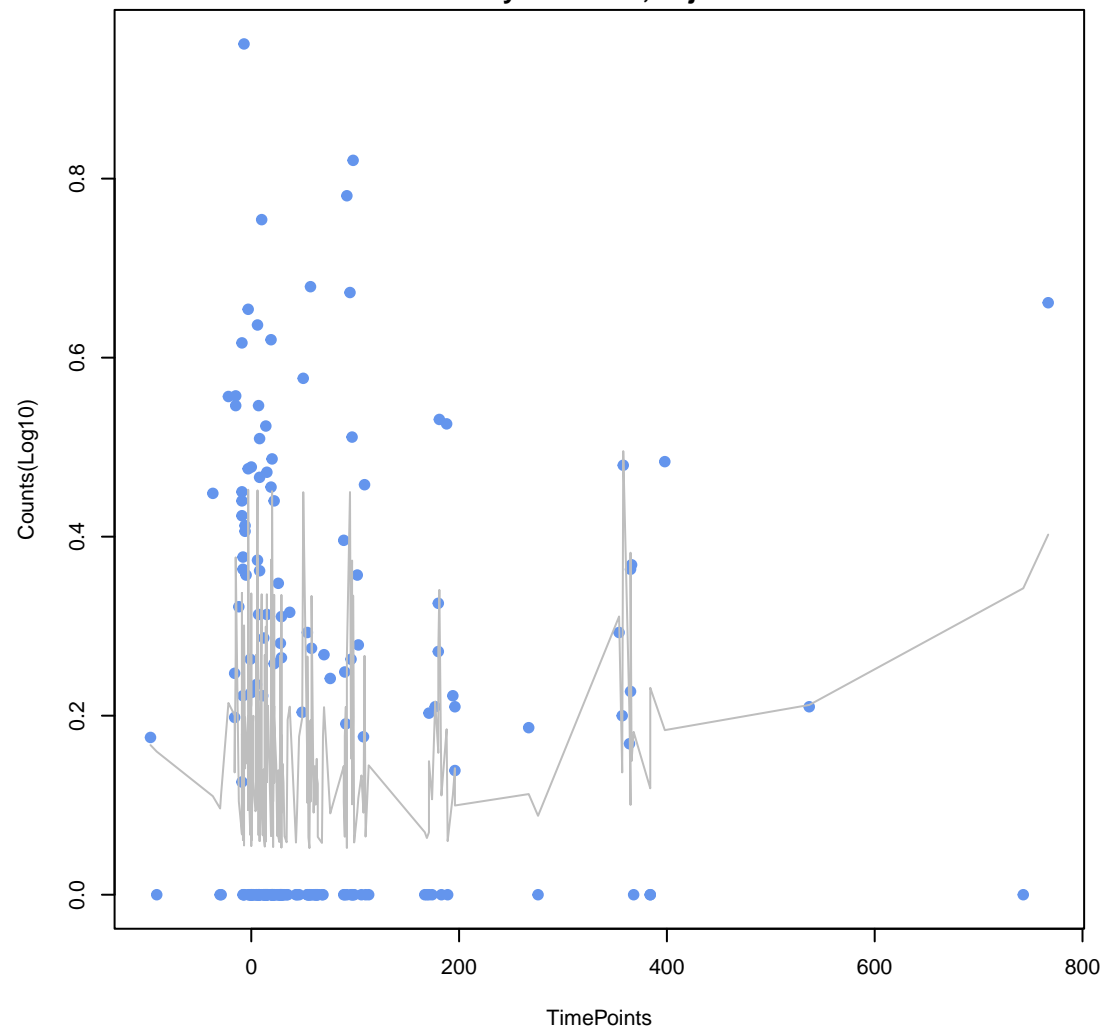
mtrD
ANOVA P=0.31, adj. ANOVA-P=0.773
Line vs. Poly F-P=0.162, adj. F-P=0.865



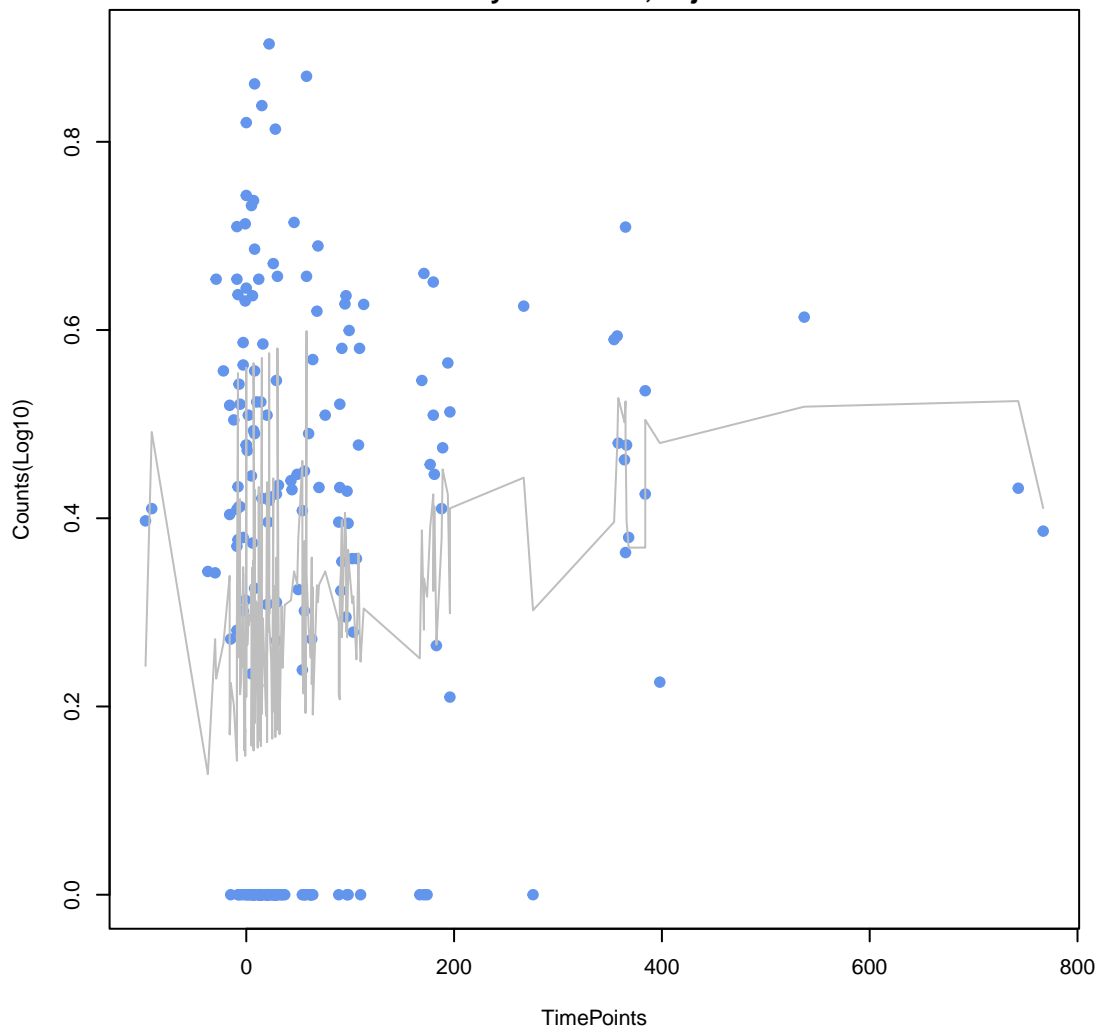
H-NS
ANOVA P=0.309, adj. ANOVA-P=0.773
Line vs. Poly F-P=0.173, adj. F-P=0.879



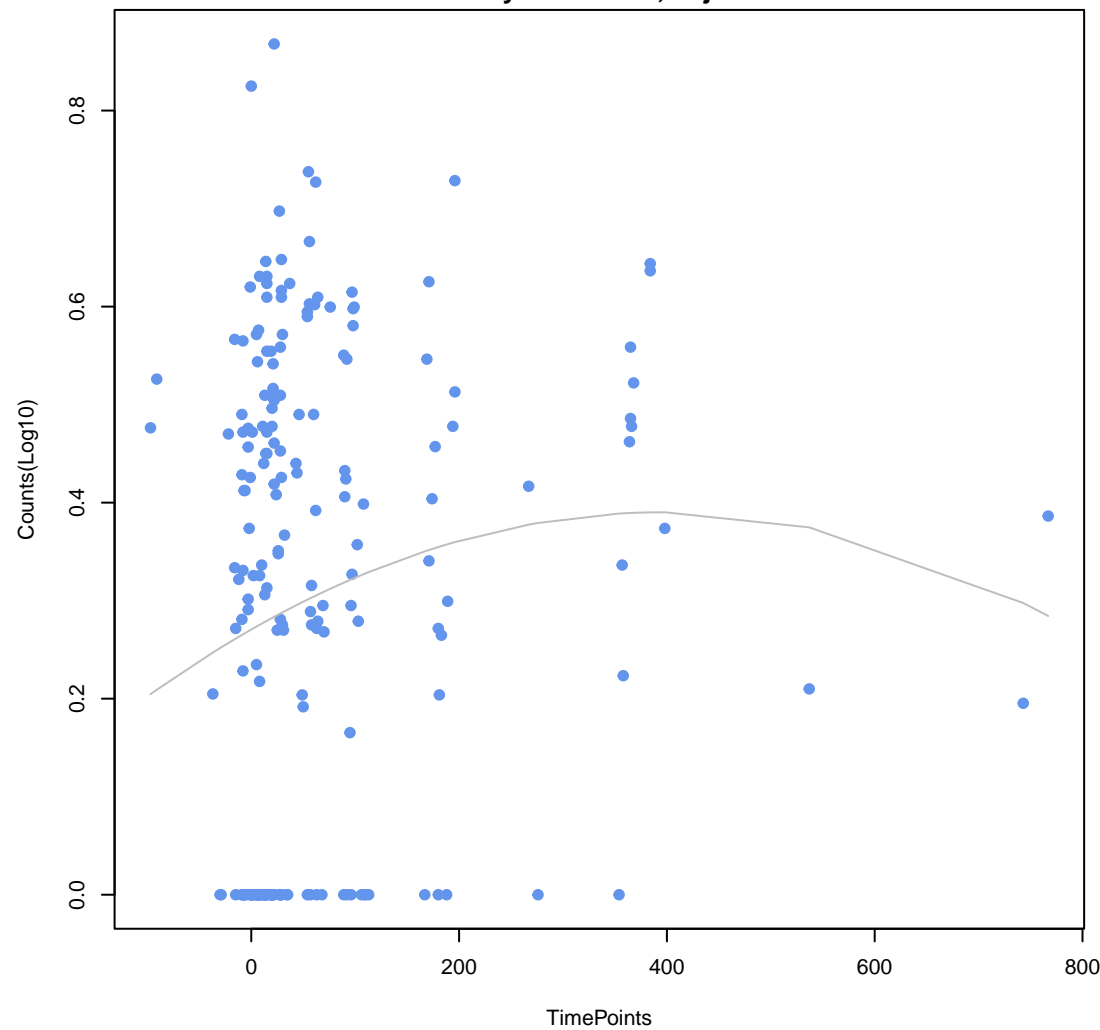
APH(6)-lc
ANOVA P=0.127, adj. ANOVA-P=0.526
Line vs. Poly F-P=0.19, adj. F-P=0.913



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

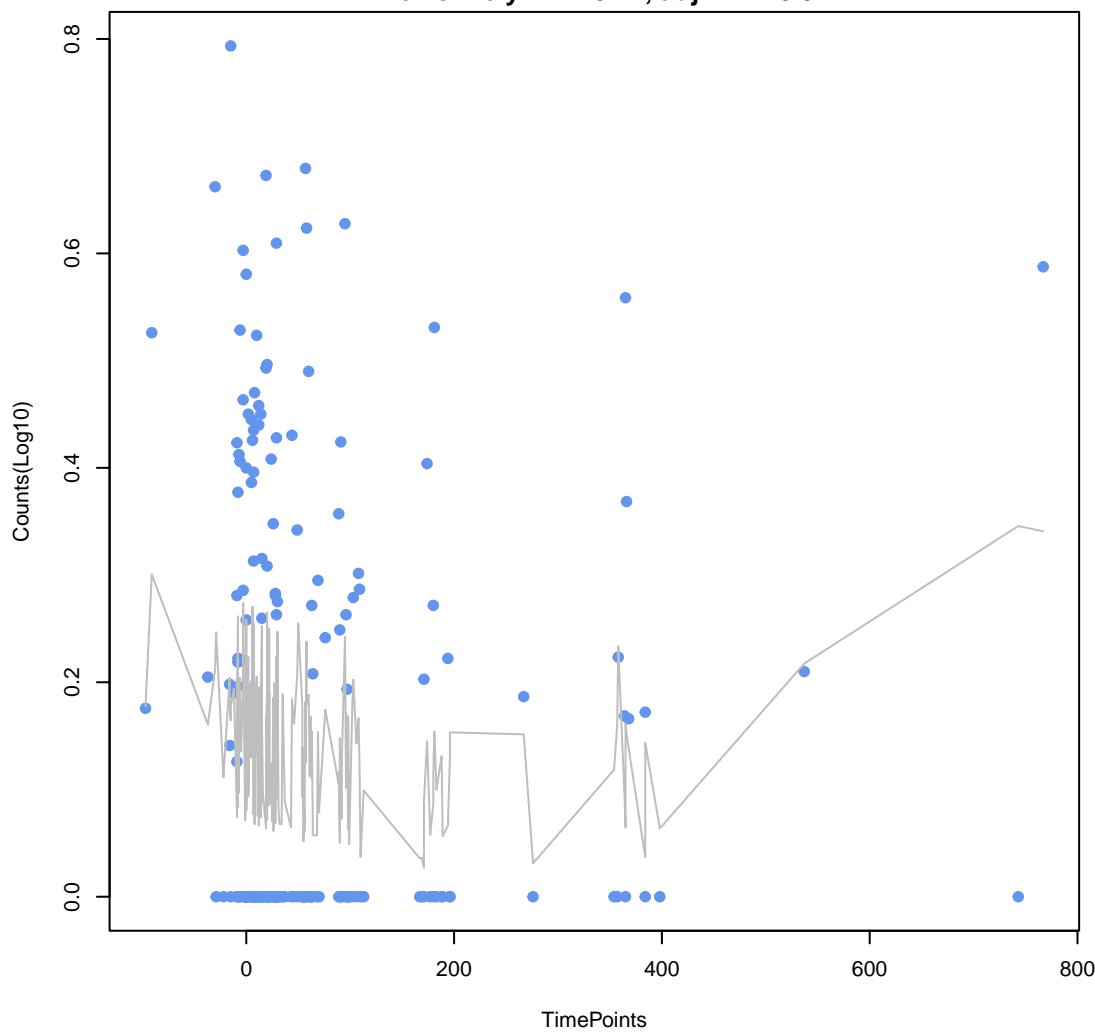


mdtB
ANOVA P=0.11, adj. ANOVA-P=0.51
Line vs. Poly F-P=0.217, adj. F-P=0.94



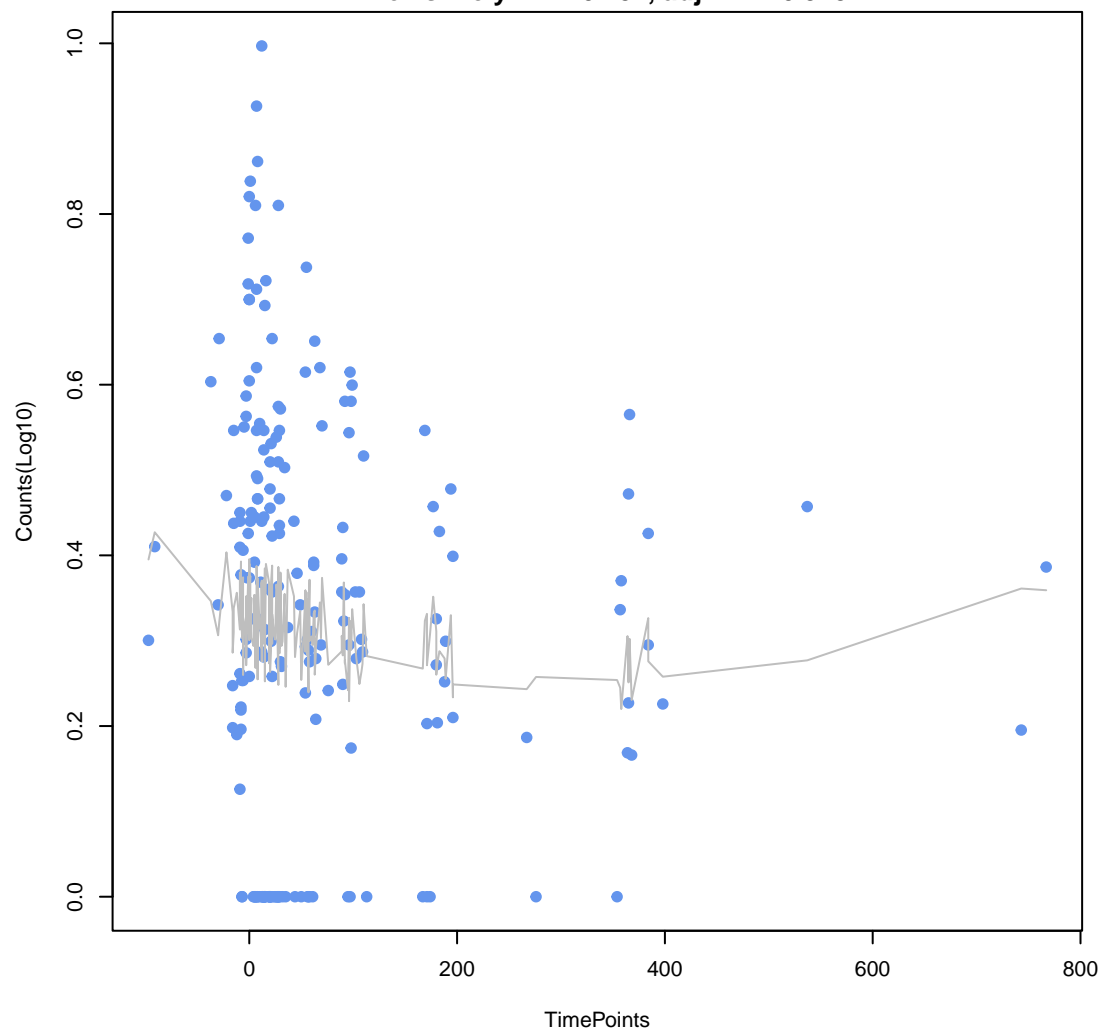
PDC-402

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



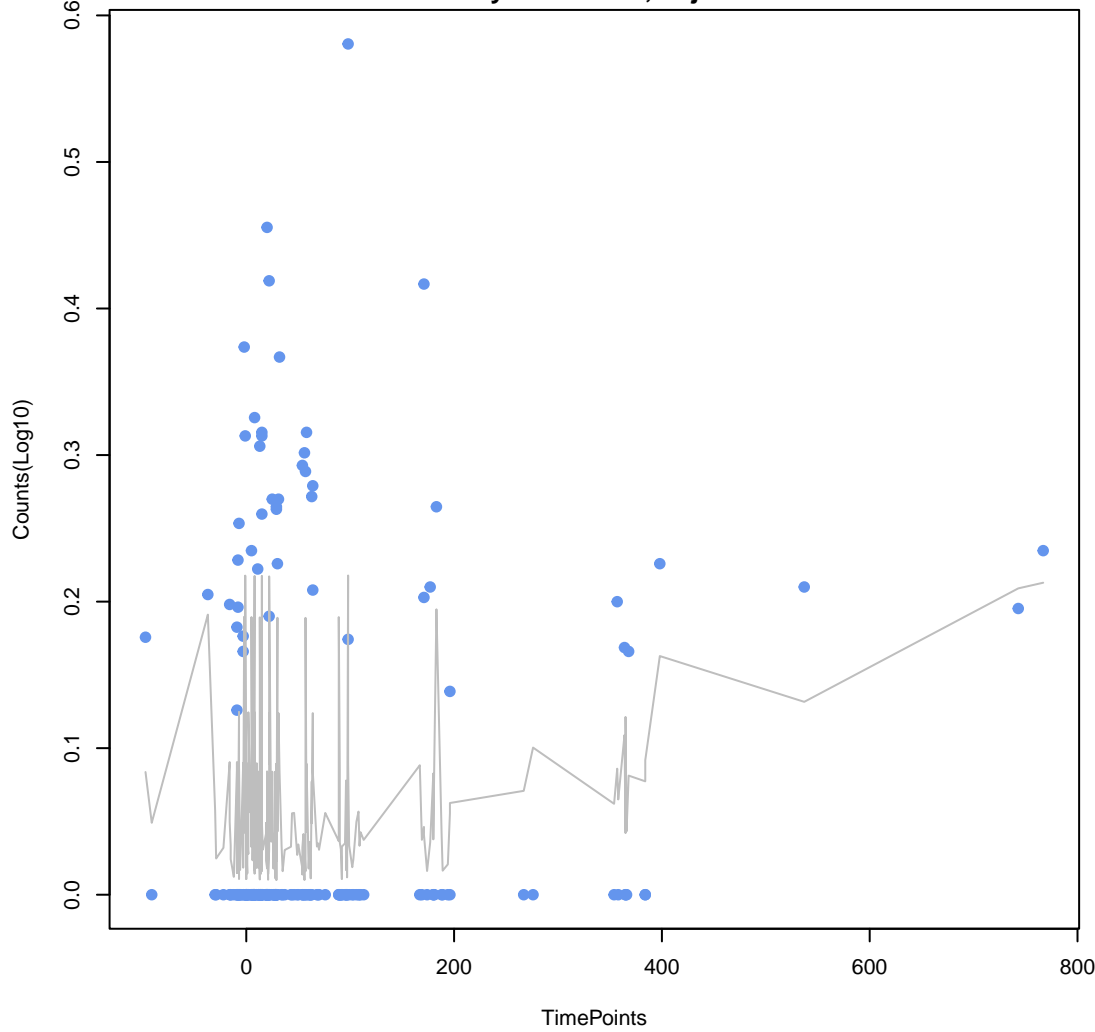
tetB(46)

ANOVA P=0.507, adj. ANOVA-P=0.803
Line vs. Poly F-P=0.231, adj. F-P=0.948



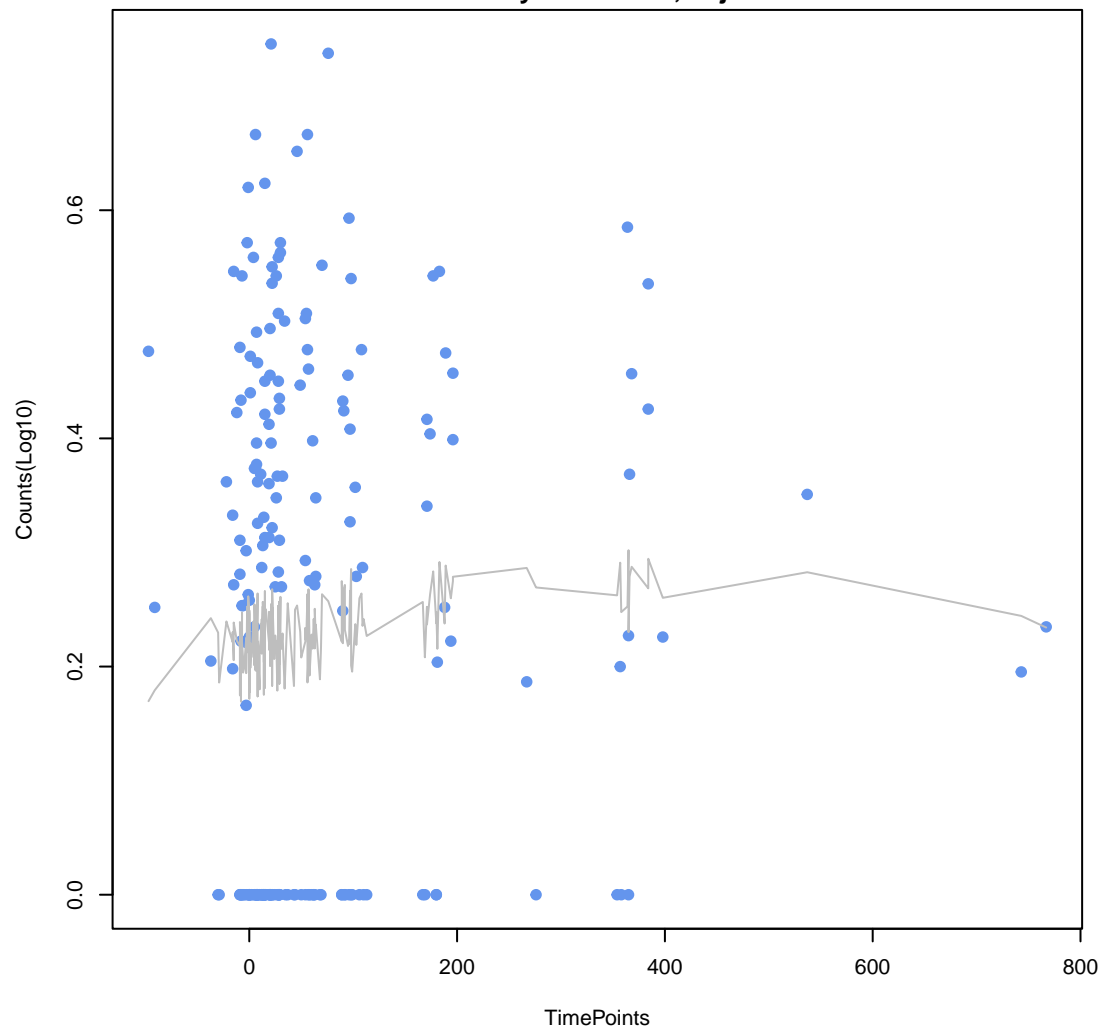
gadW

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



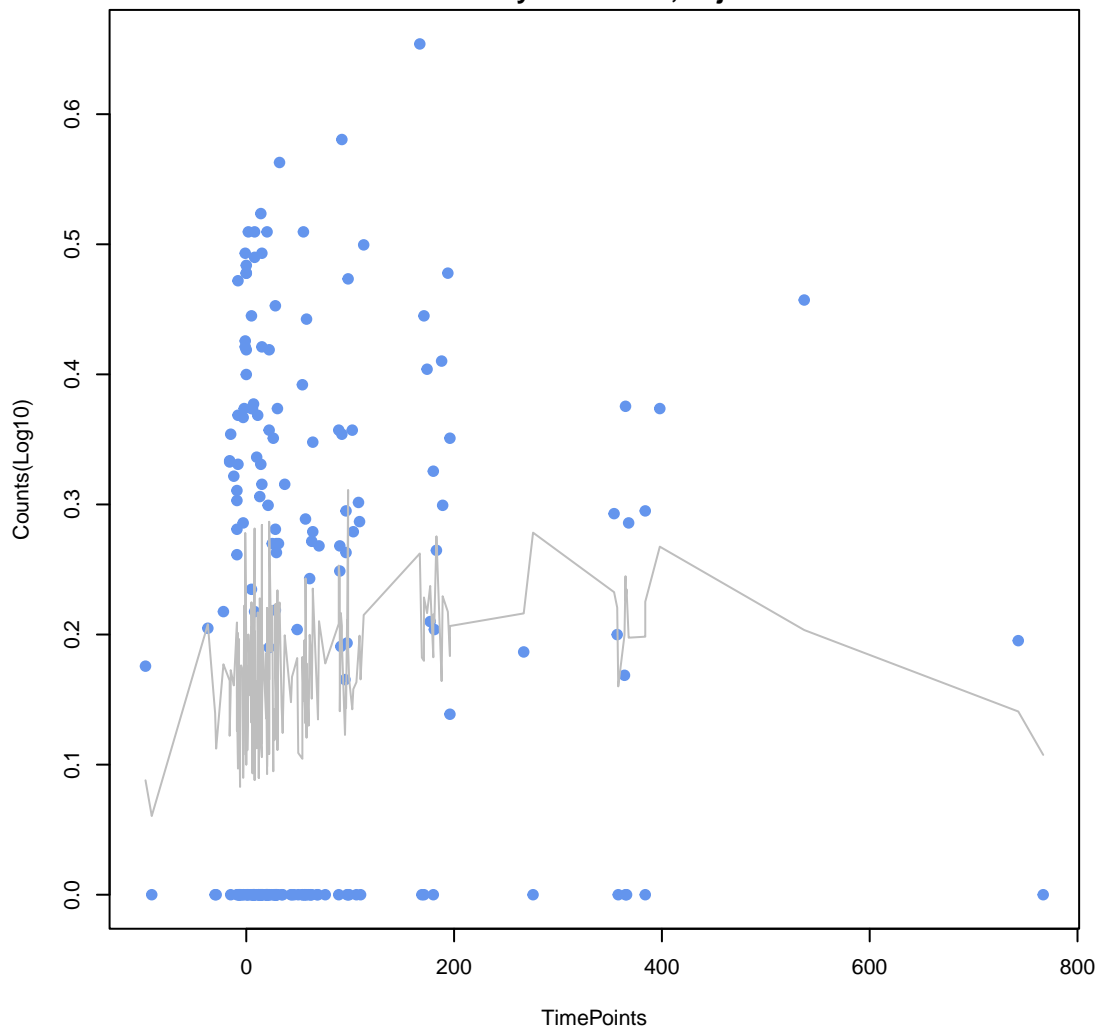
cpxA

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



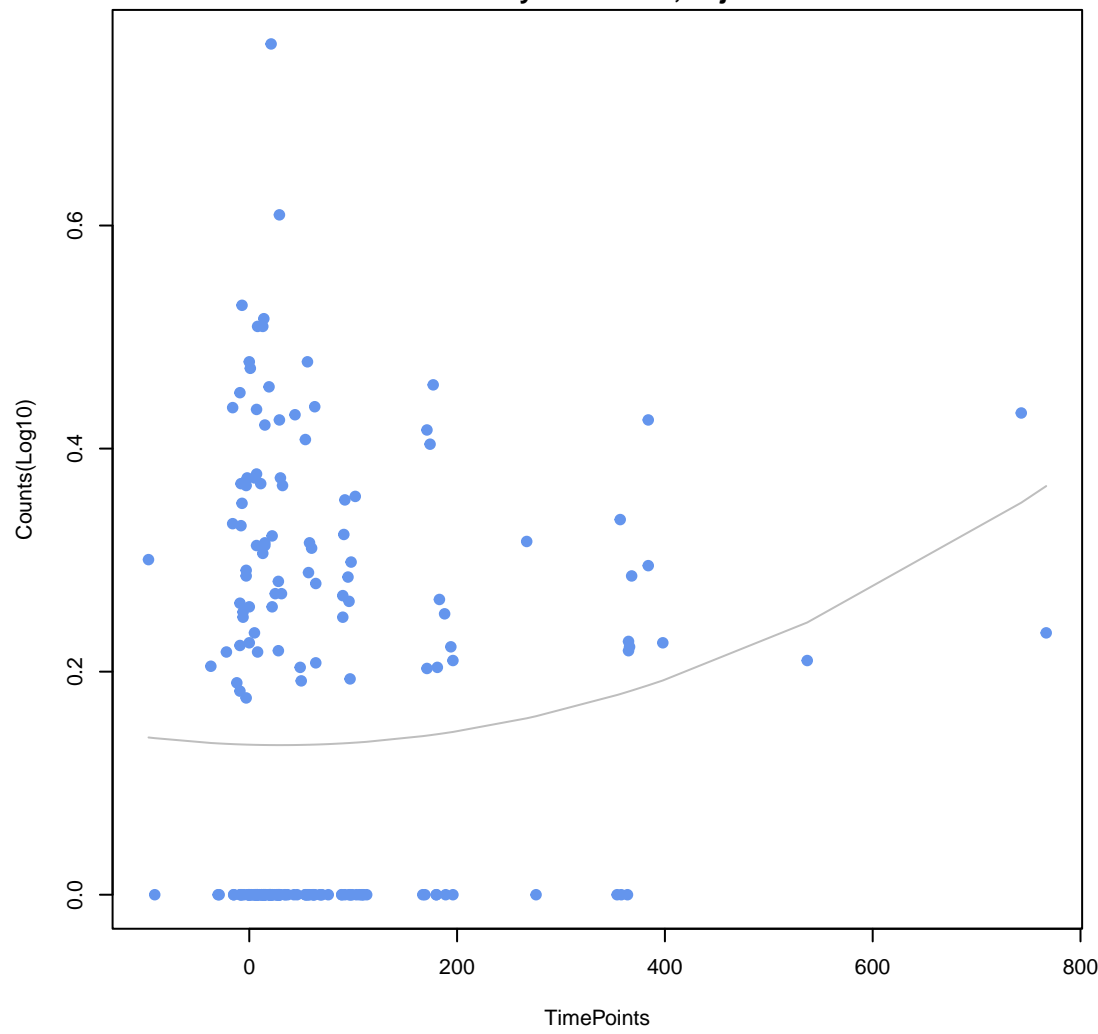
mdtG

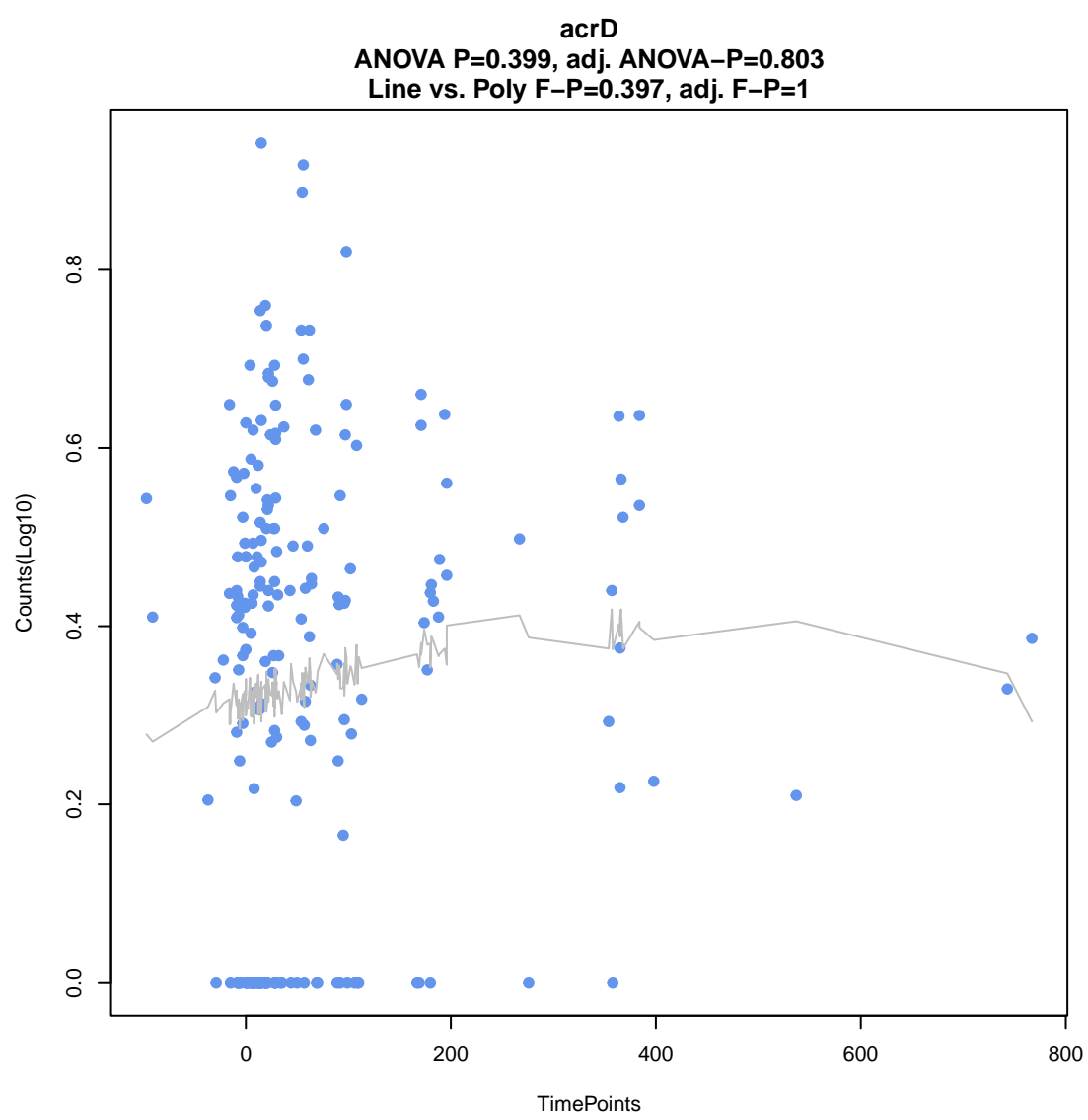
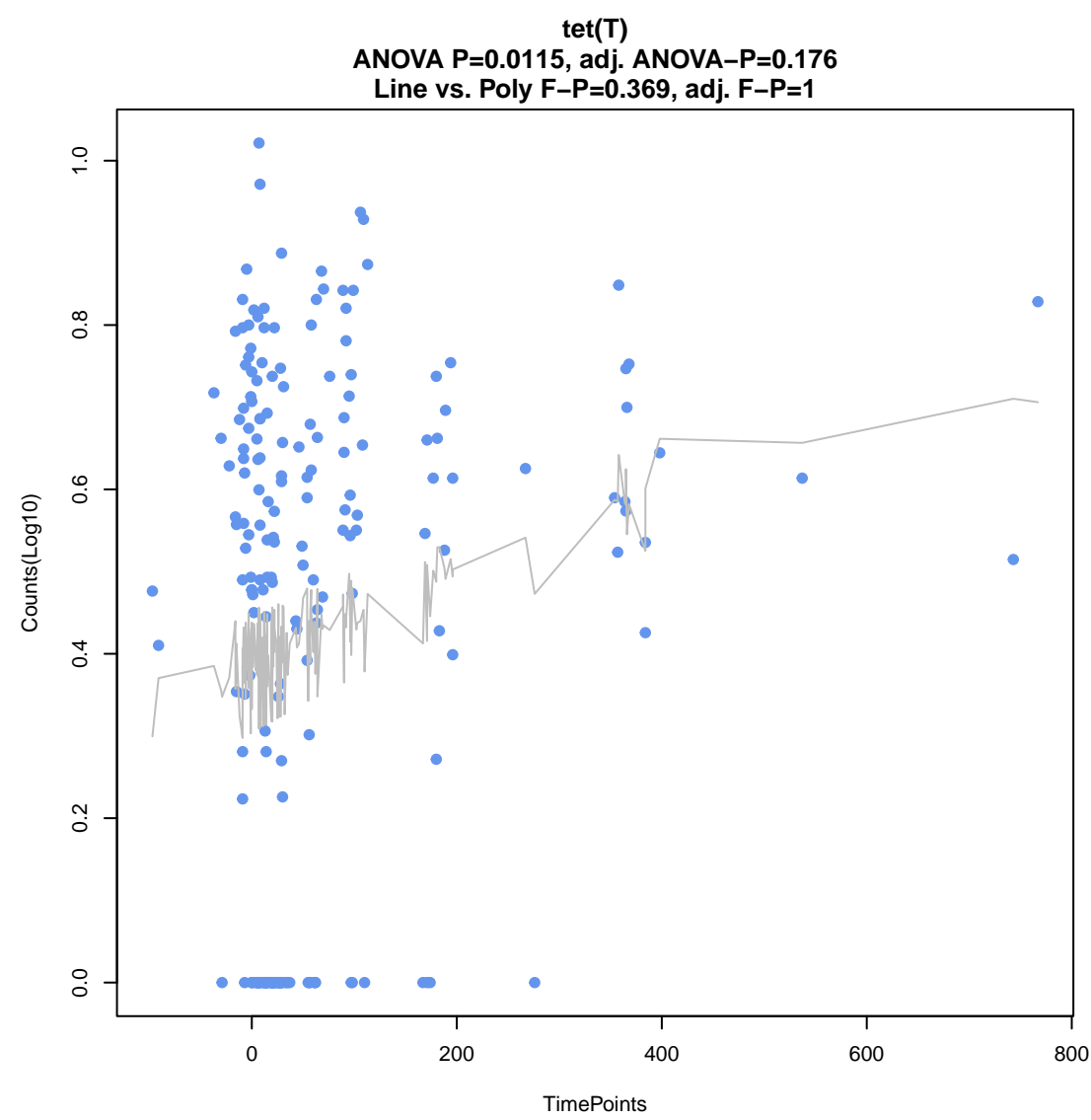
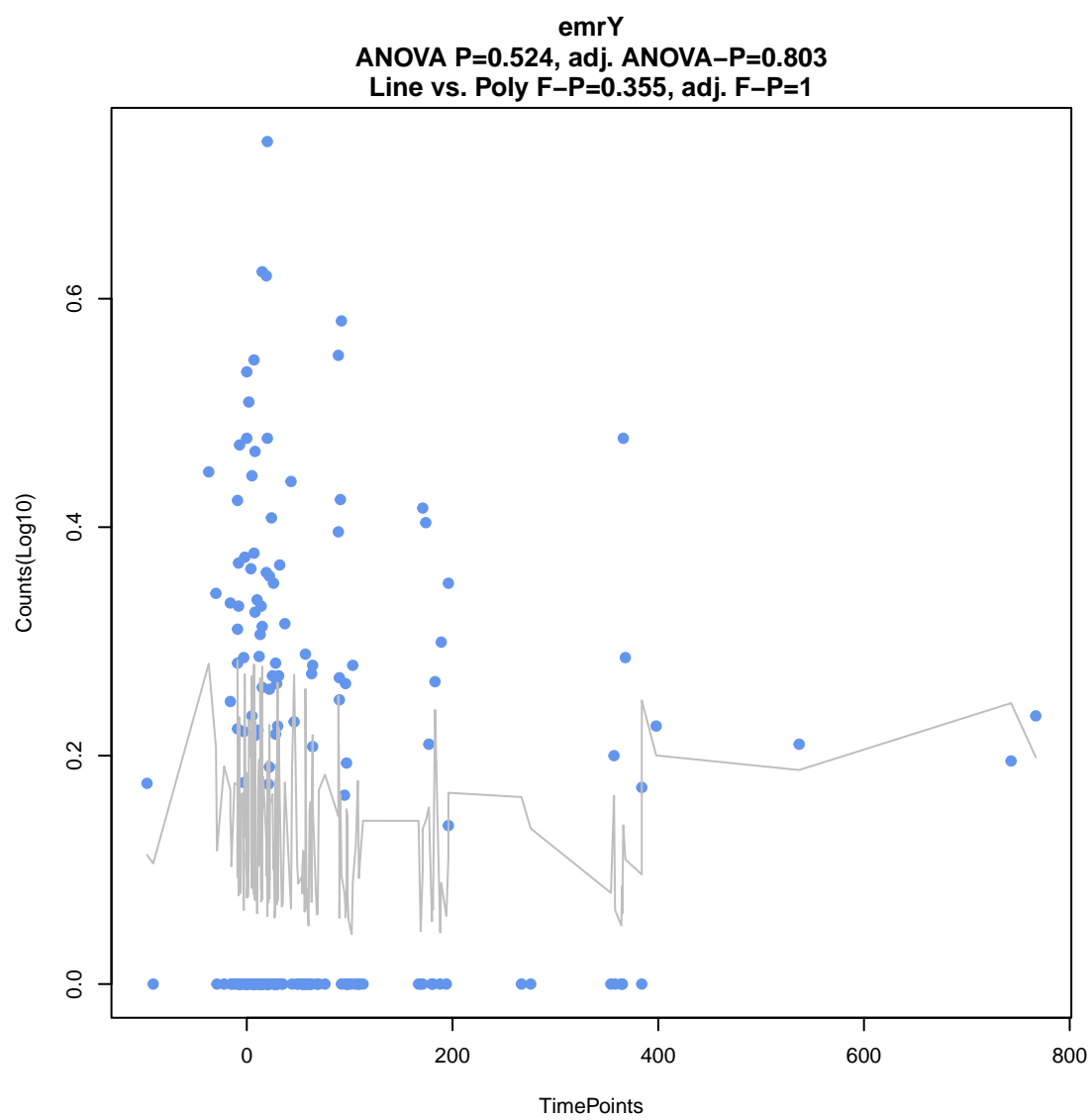
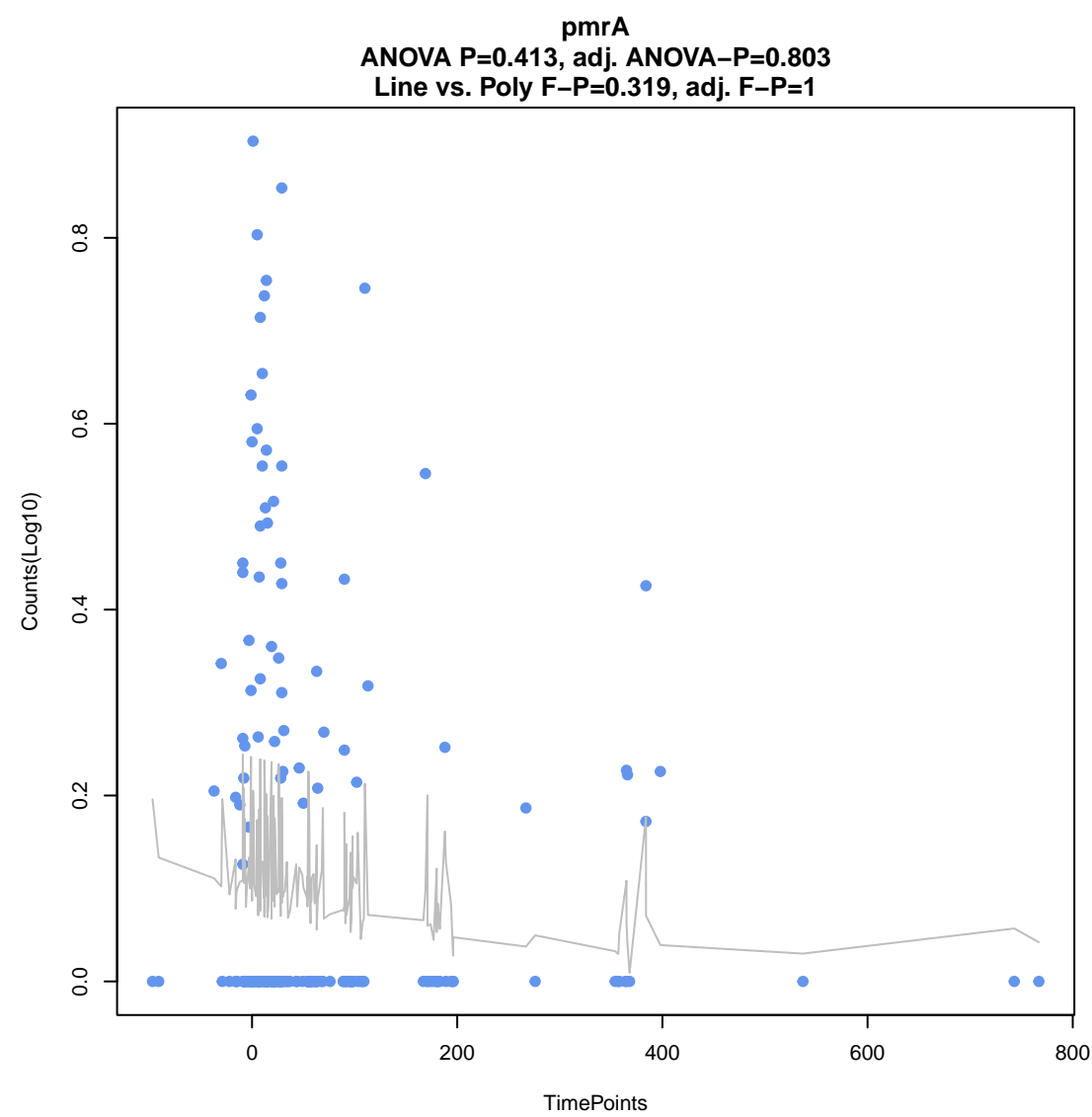
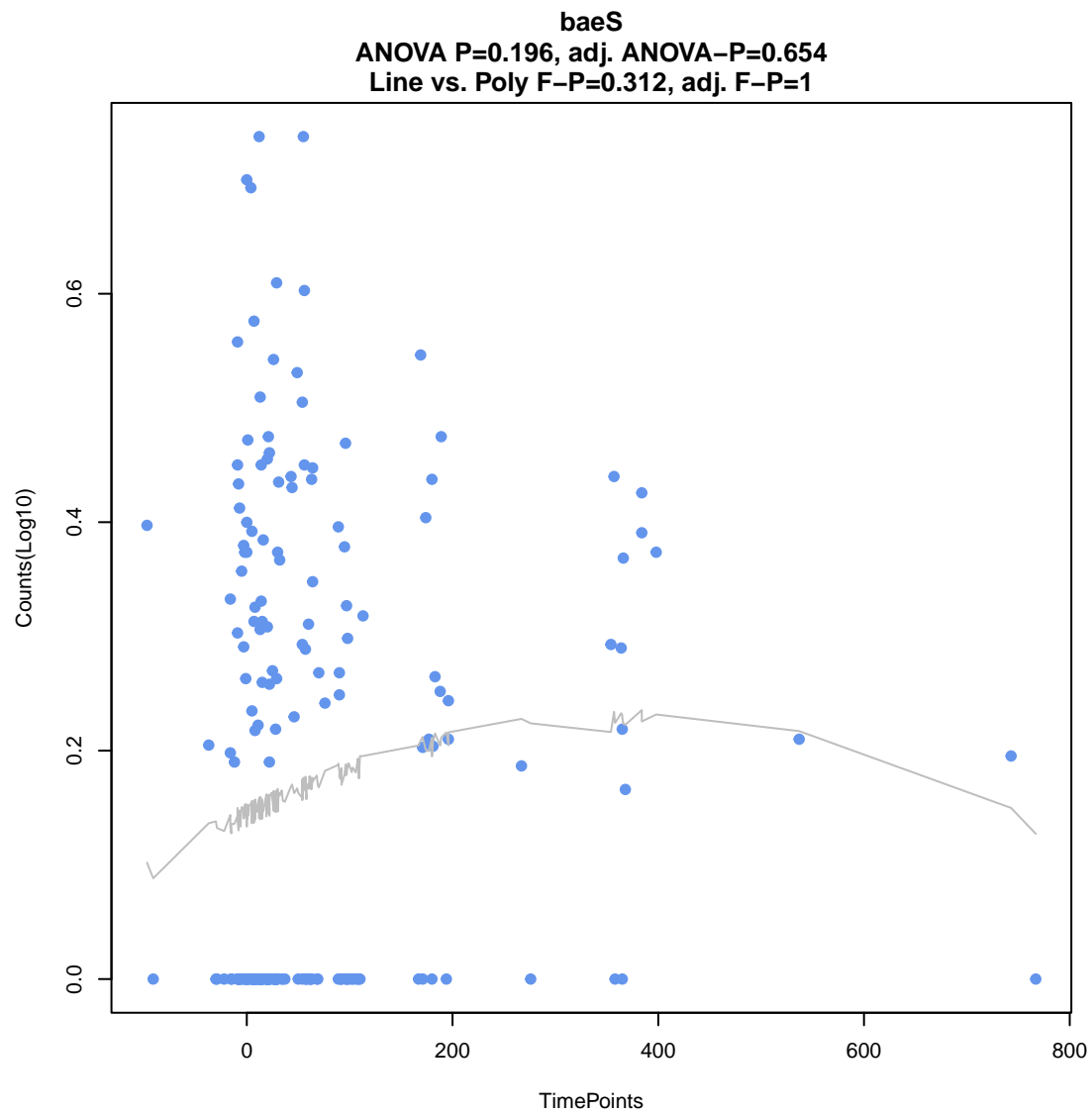
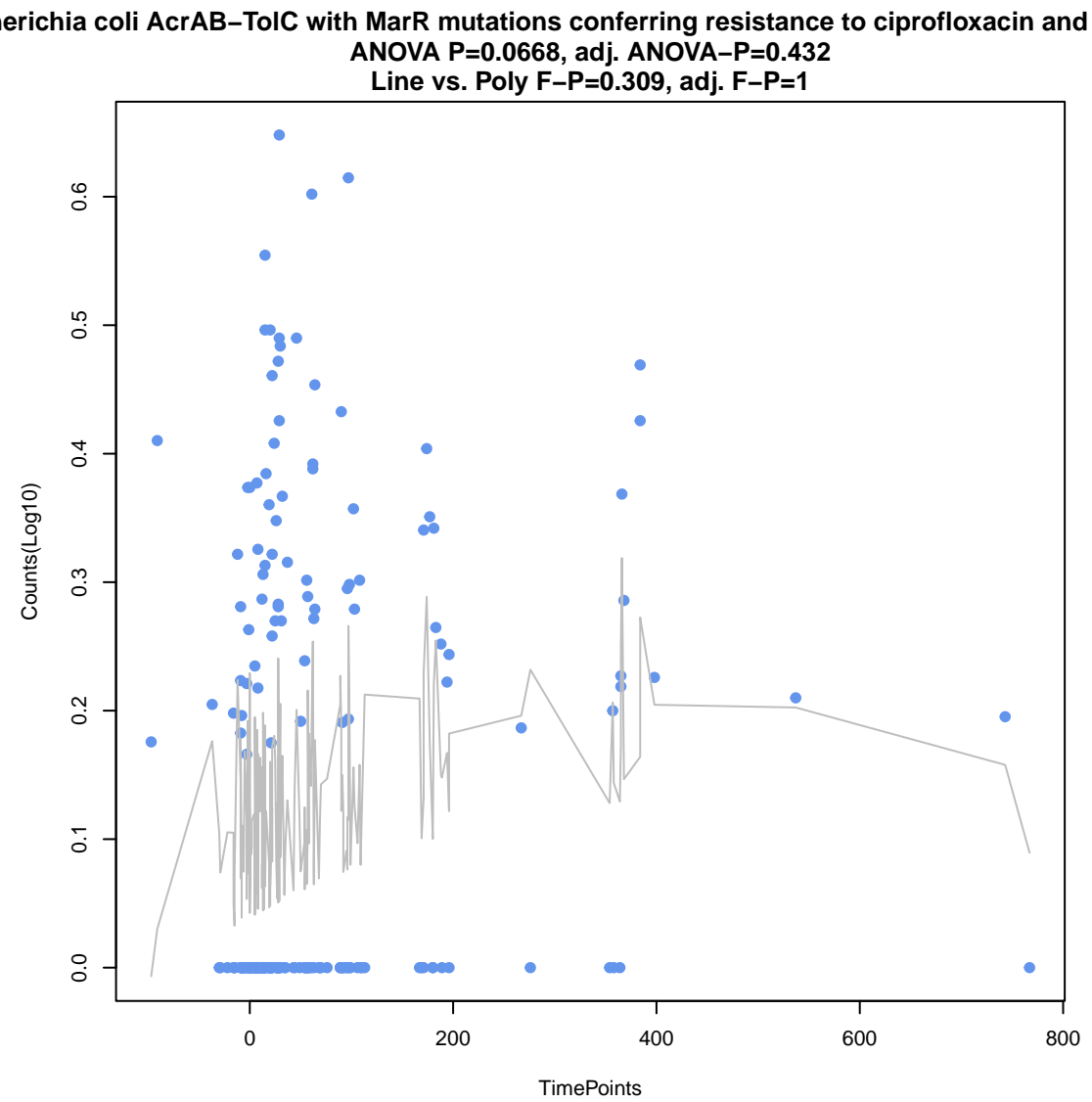
ANOVA P=0.23, adj. ANOVA-P=0.684
Line vs. Poly F-P=0.286, adj. F-P=1



mdtH

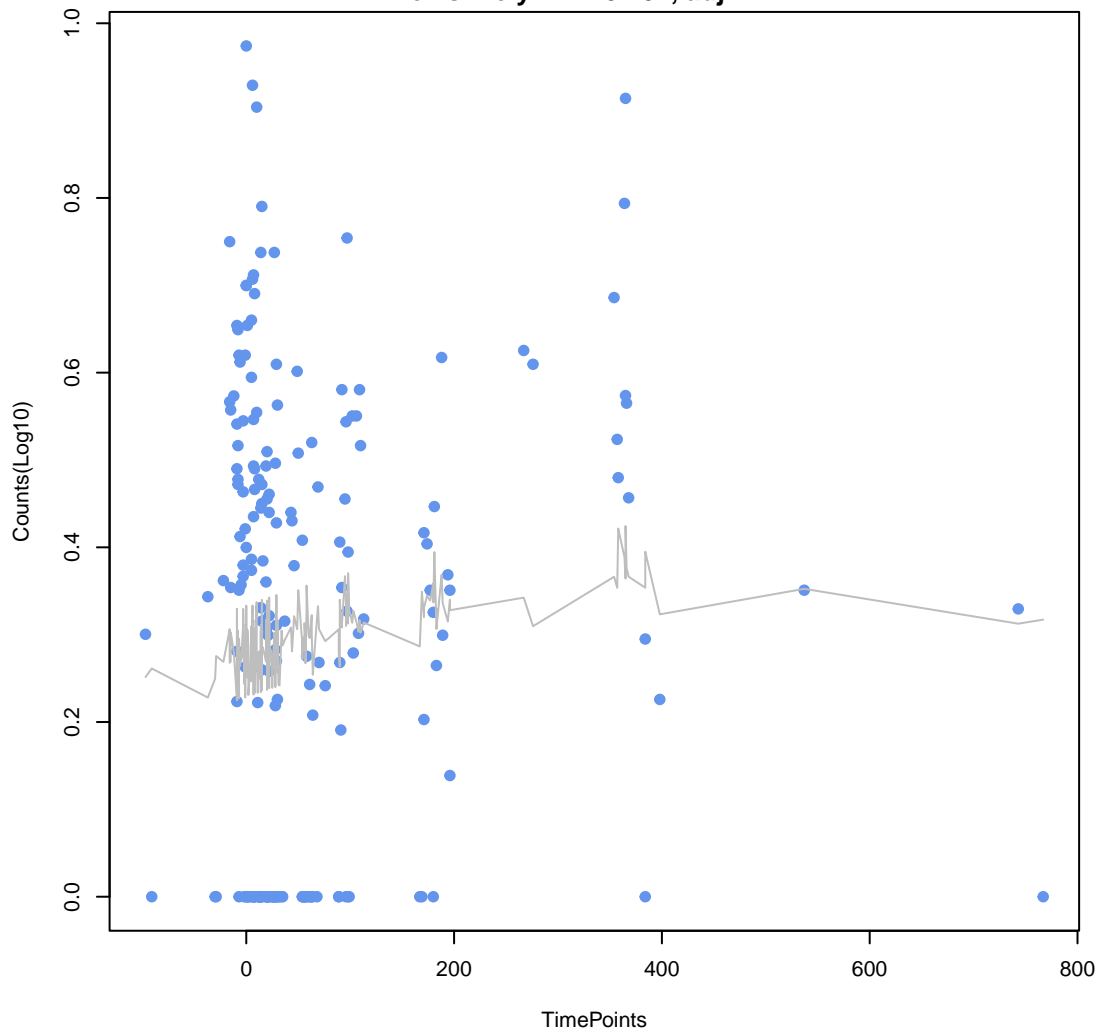
ANOVA P=0.115, adj. ANOVA-P=0.513
Line vs. Poly F-P=0.303, adj. F-P=1



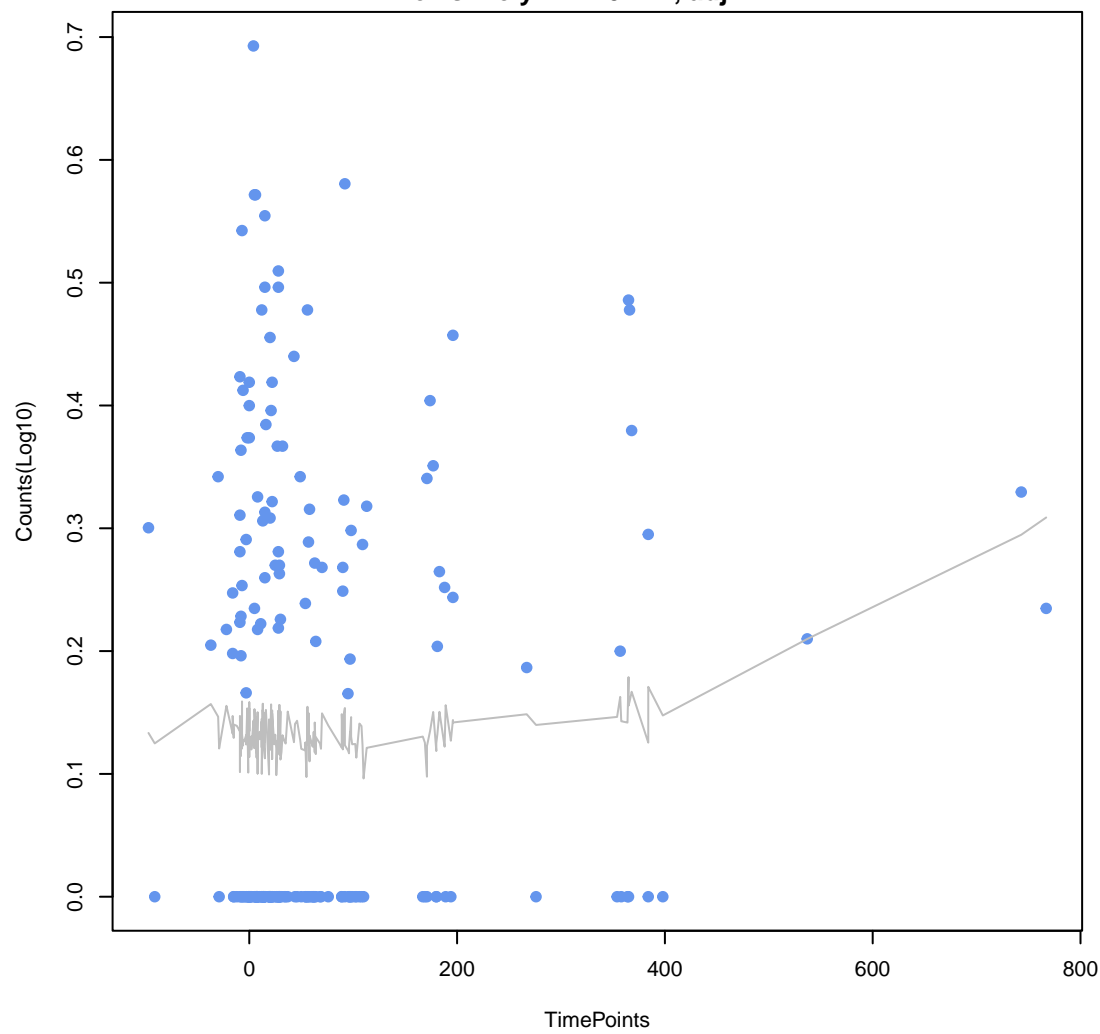


BlaB-38

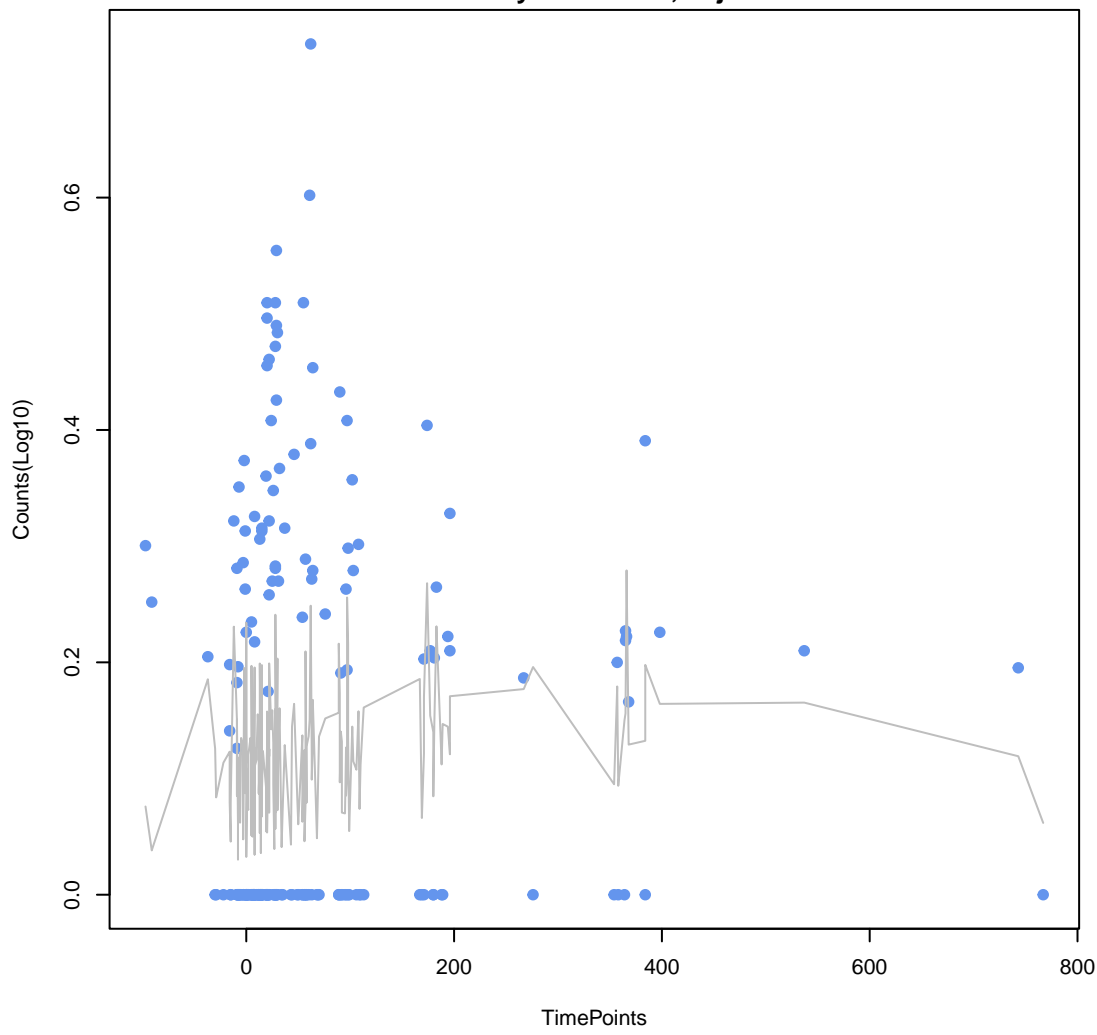
ANOVA P=0.326, adj. ANOVA-P=0.777
Line vs. Poly F-P=0.401, adj. F-P=1

**eptA**

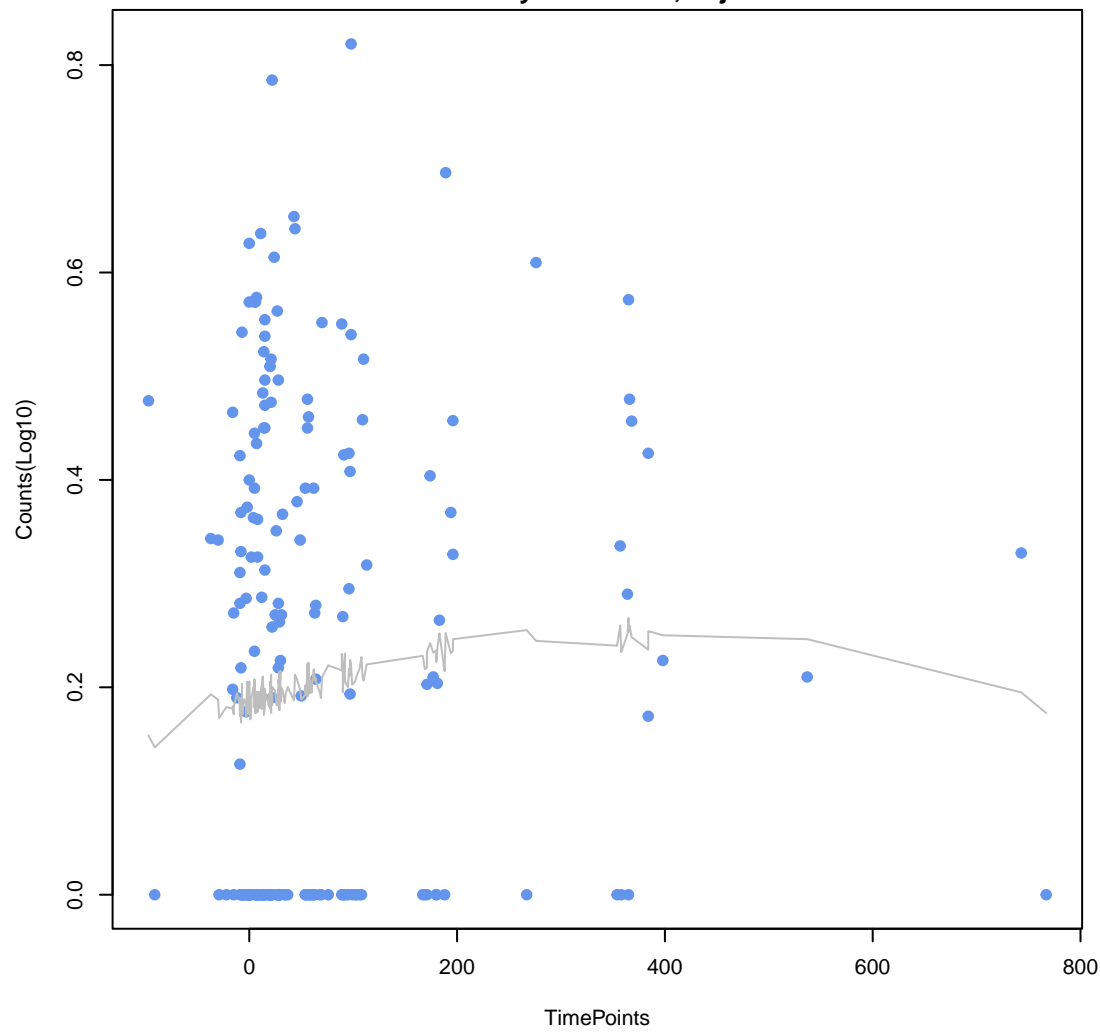
ANOVA P=0.388, adj. ANOVA-P=0.803
Line vs. Poly F-P=0.411, adj. F-P=1

**marA**

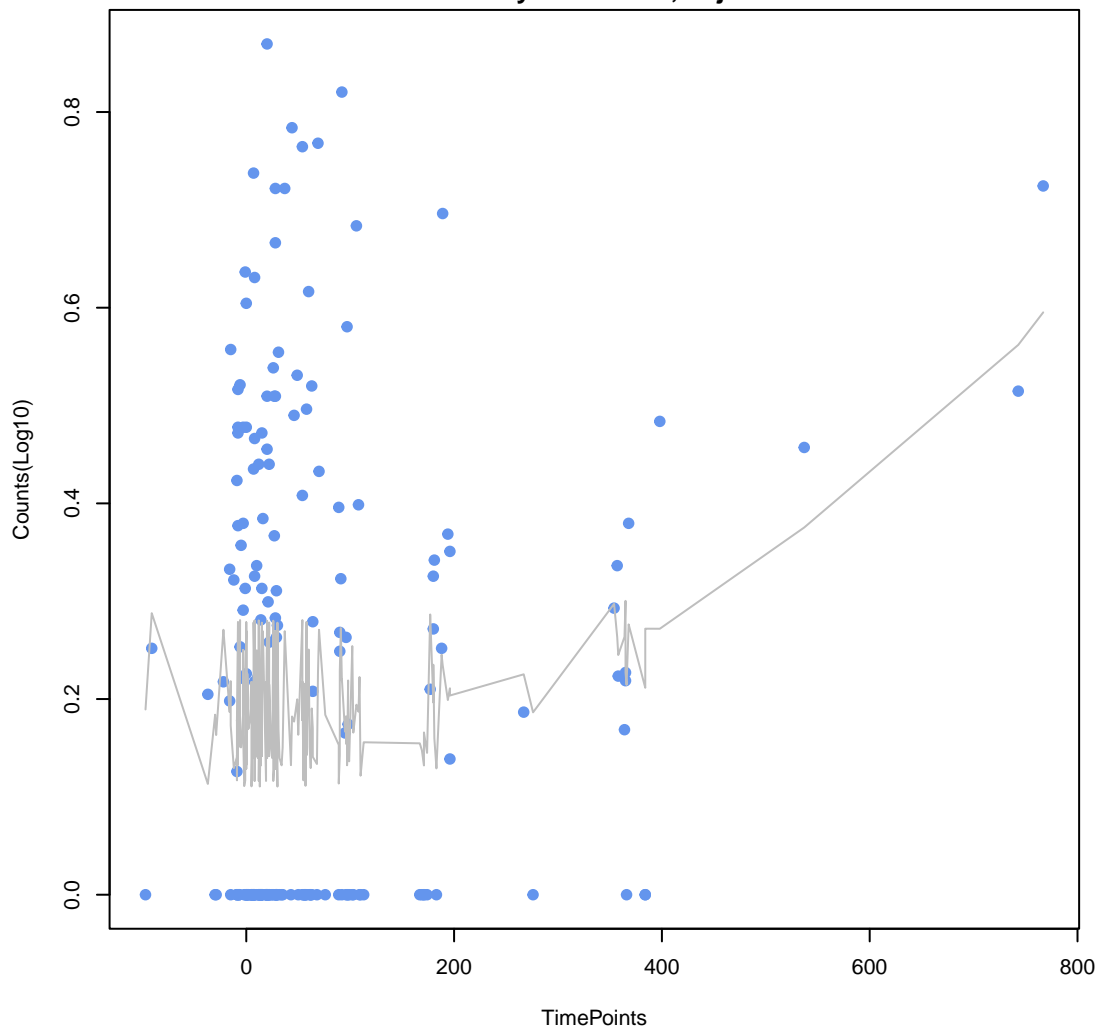
ANOVA P=0.432, adj. ANOVA-P=0.803
Line vs. Poly F-P=0.415, adj. F-P=1

**mdtO**

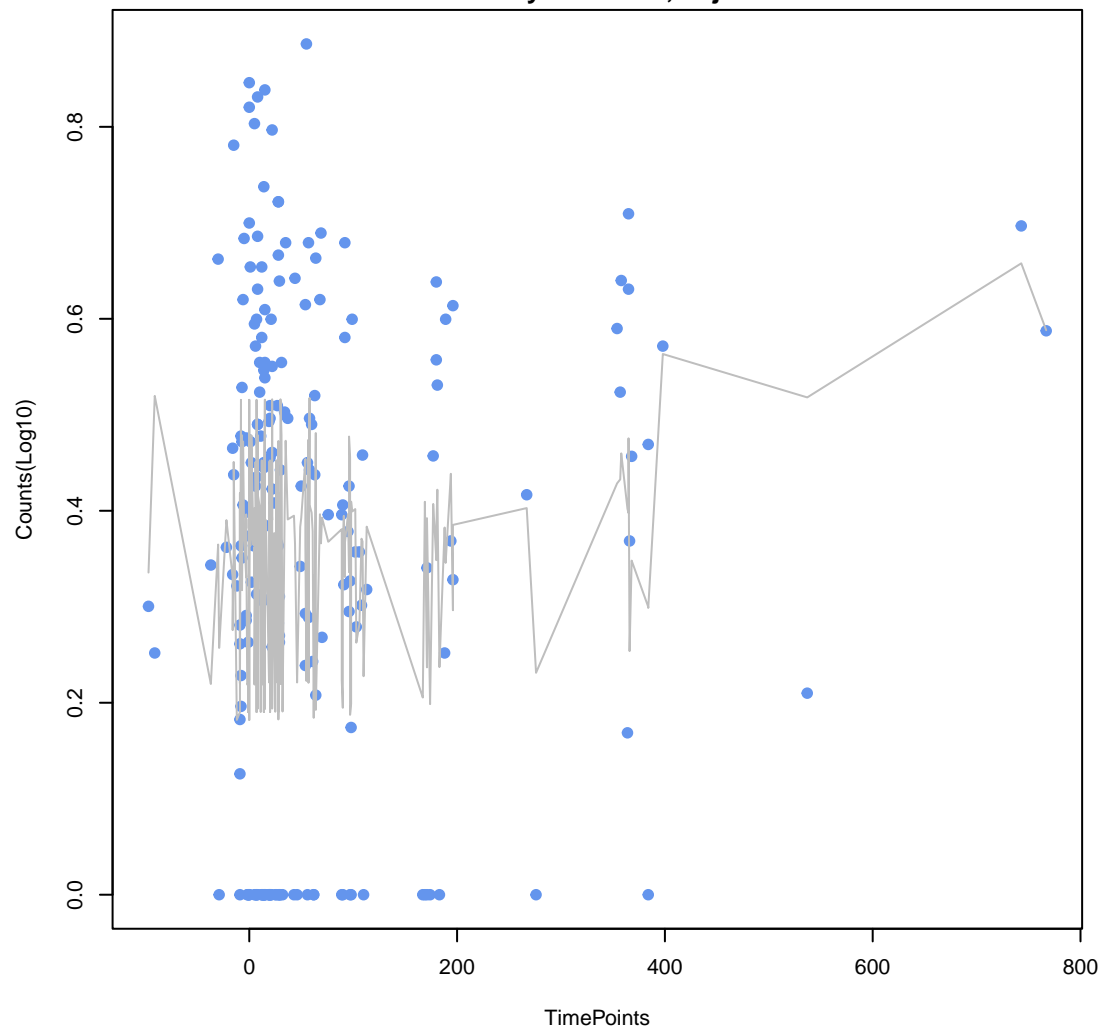
ANOVA P=0.478, adj. ANOVA-P=0.803
Line vs. Poly F-P=0.429, adj. F-P=1

**tet(44)**

ANOVA P=0.0228, adj. ANOVA-P=0.244
Line vs. Poly F-P=0.432, adj. F-P=1

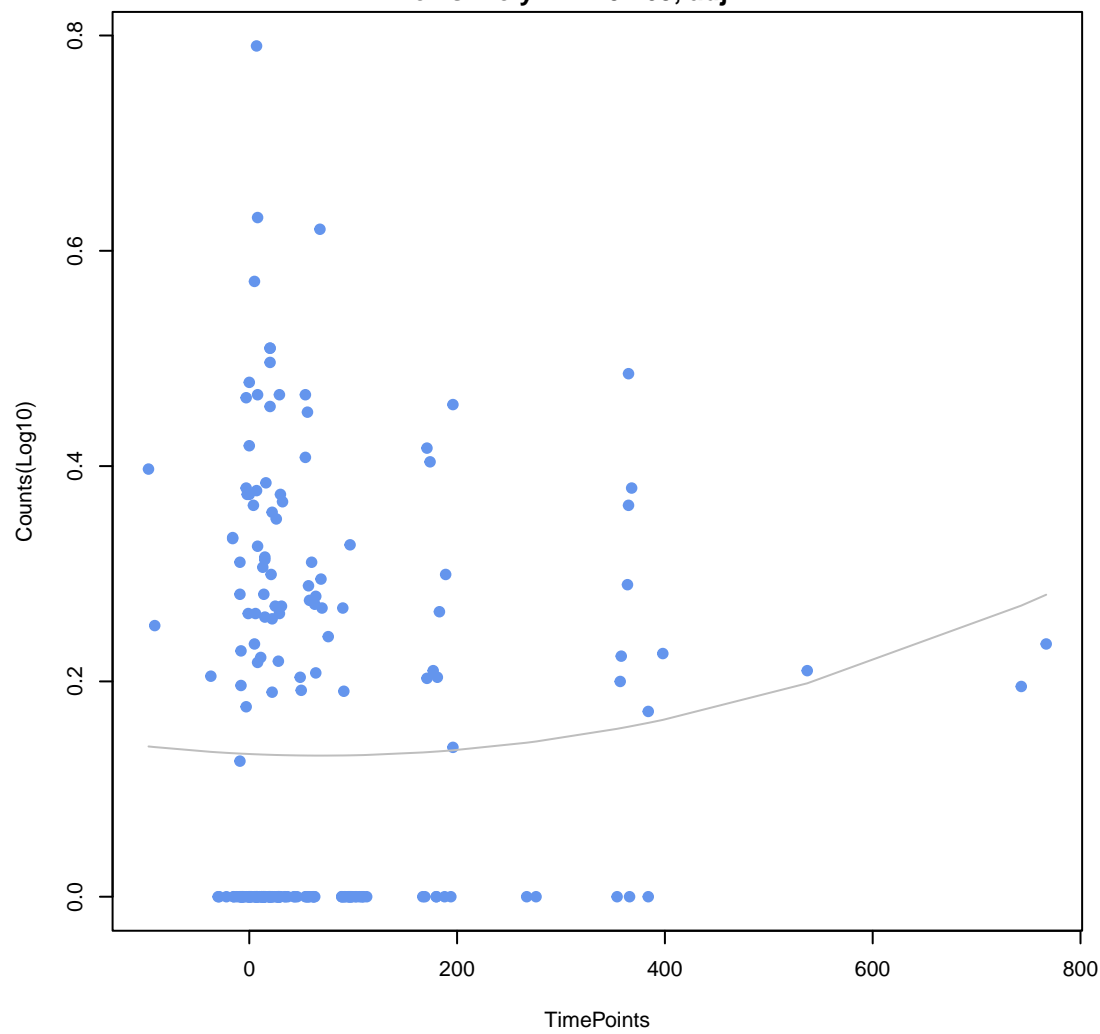
**tet(32)**

ANOVA P=0.0938, adj. ANOVA-P=0.502
Line vs. Poly F-P=0.44, adj. F-P=1



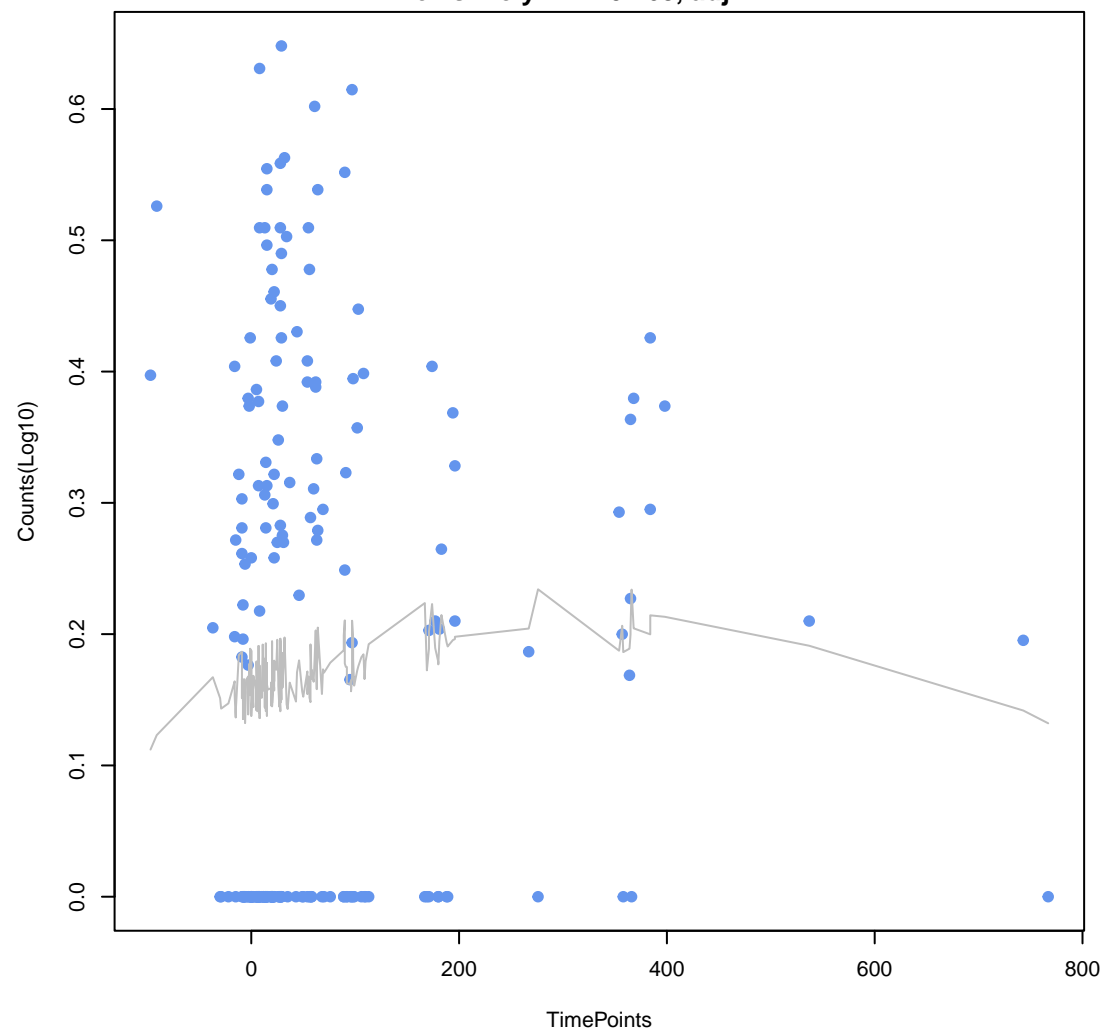
mdtN

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



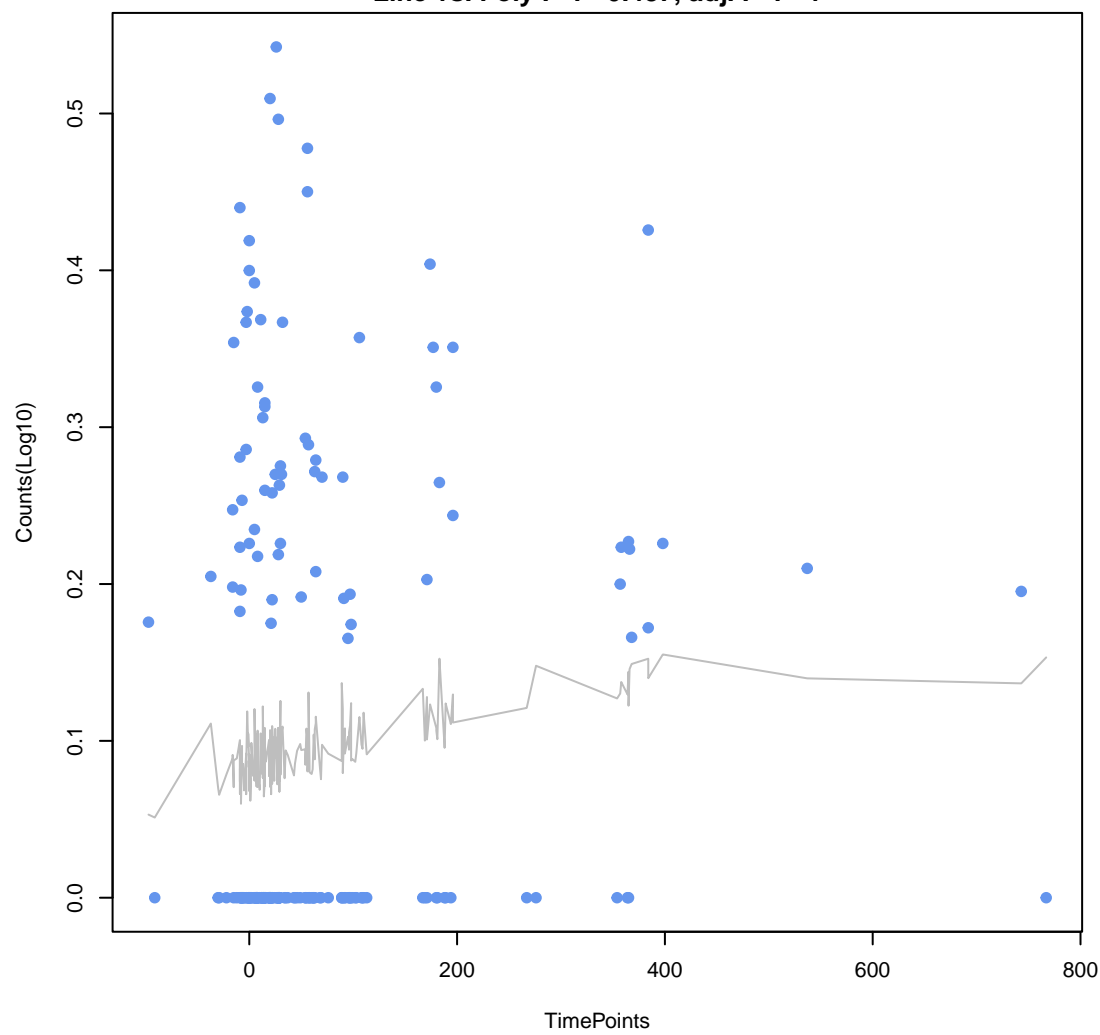
PmrF

ANOVA P=0.541, adj. ANOVA-P=0.812
Line vs. Poly F-P=0.468, adj. F-P=1



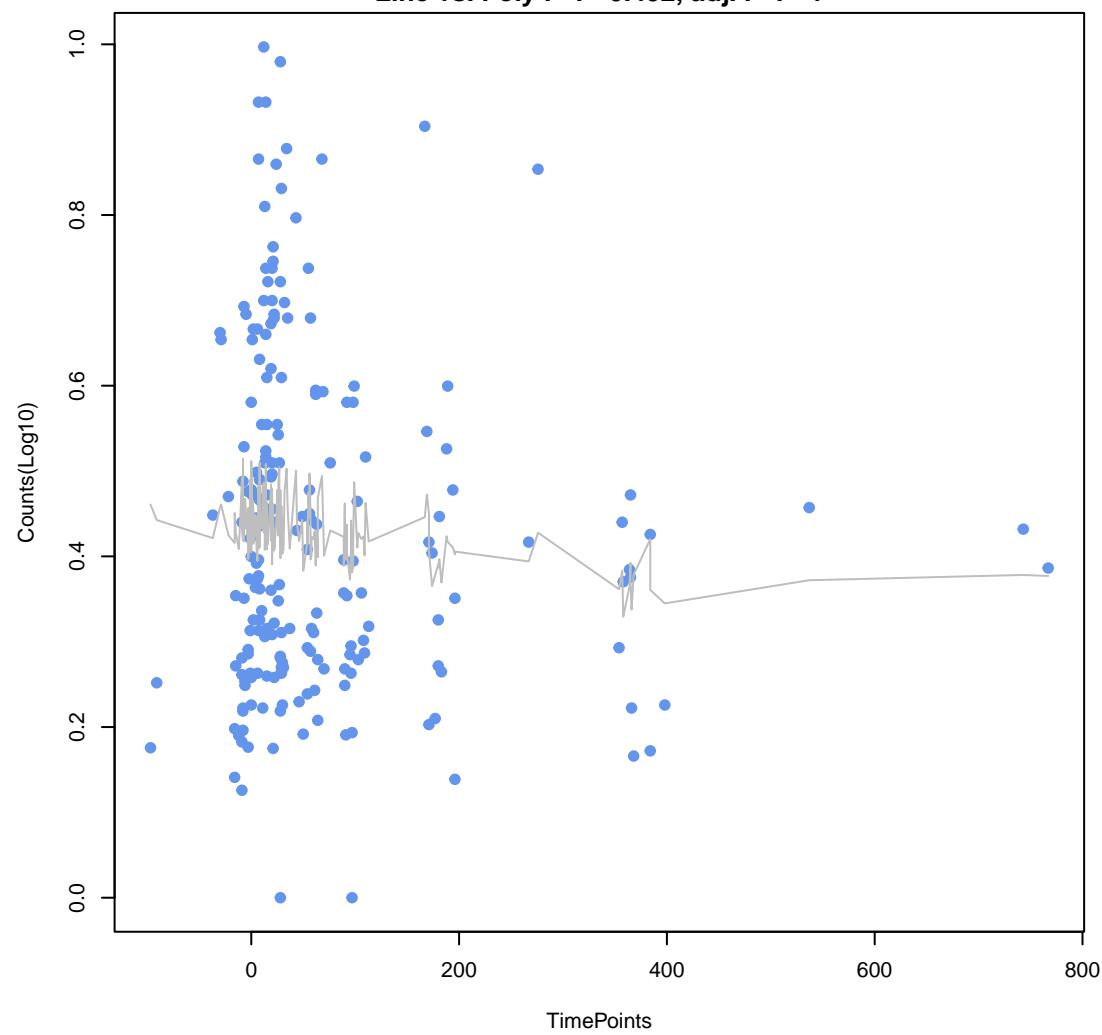
AcrS

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



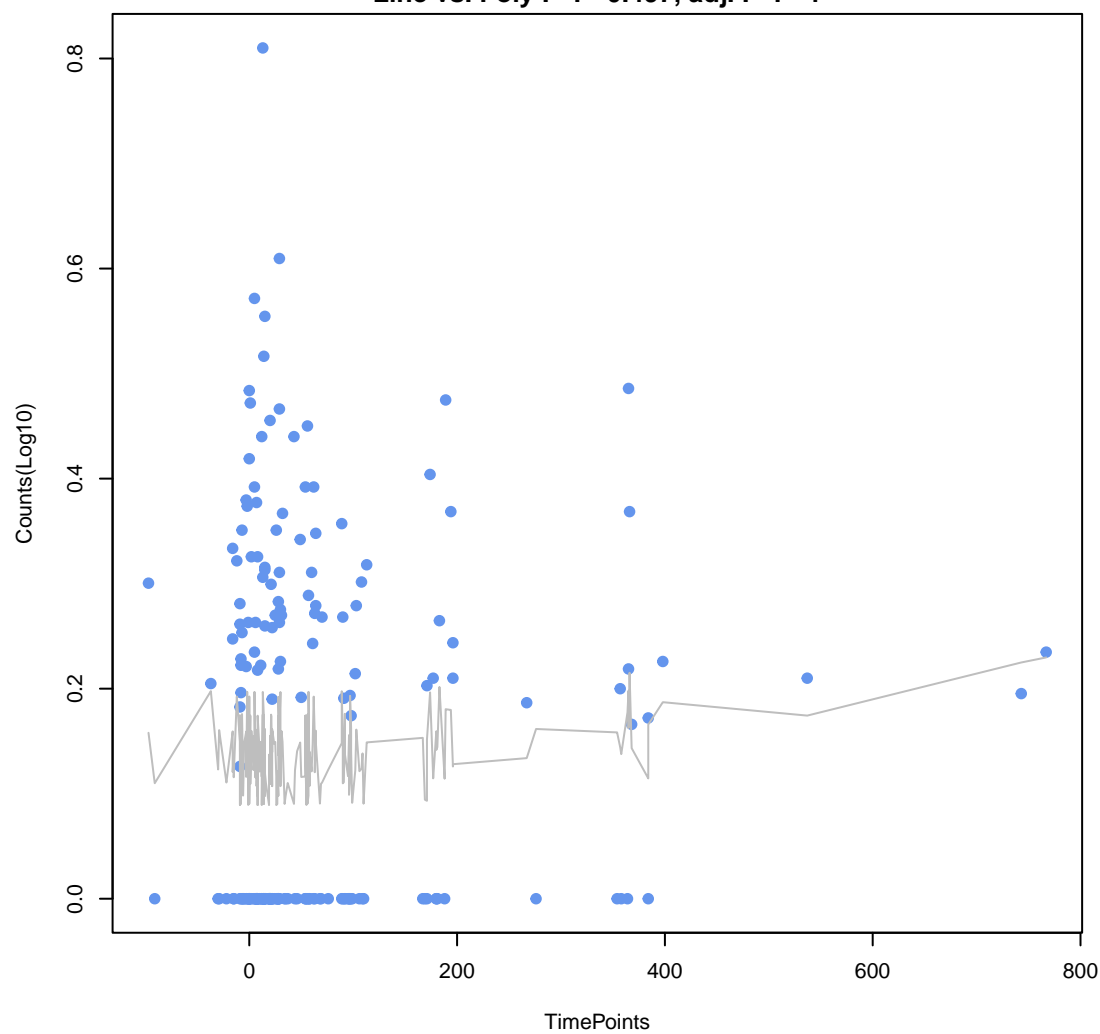
tet(O)

ANOVA P=0.335, adj. ANOVA-P=0.777
Line vs. Poly F-P=0.492, adj. F-P=1



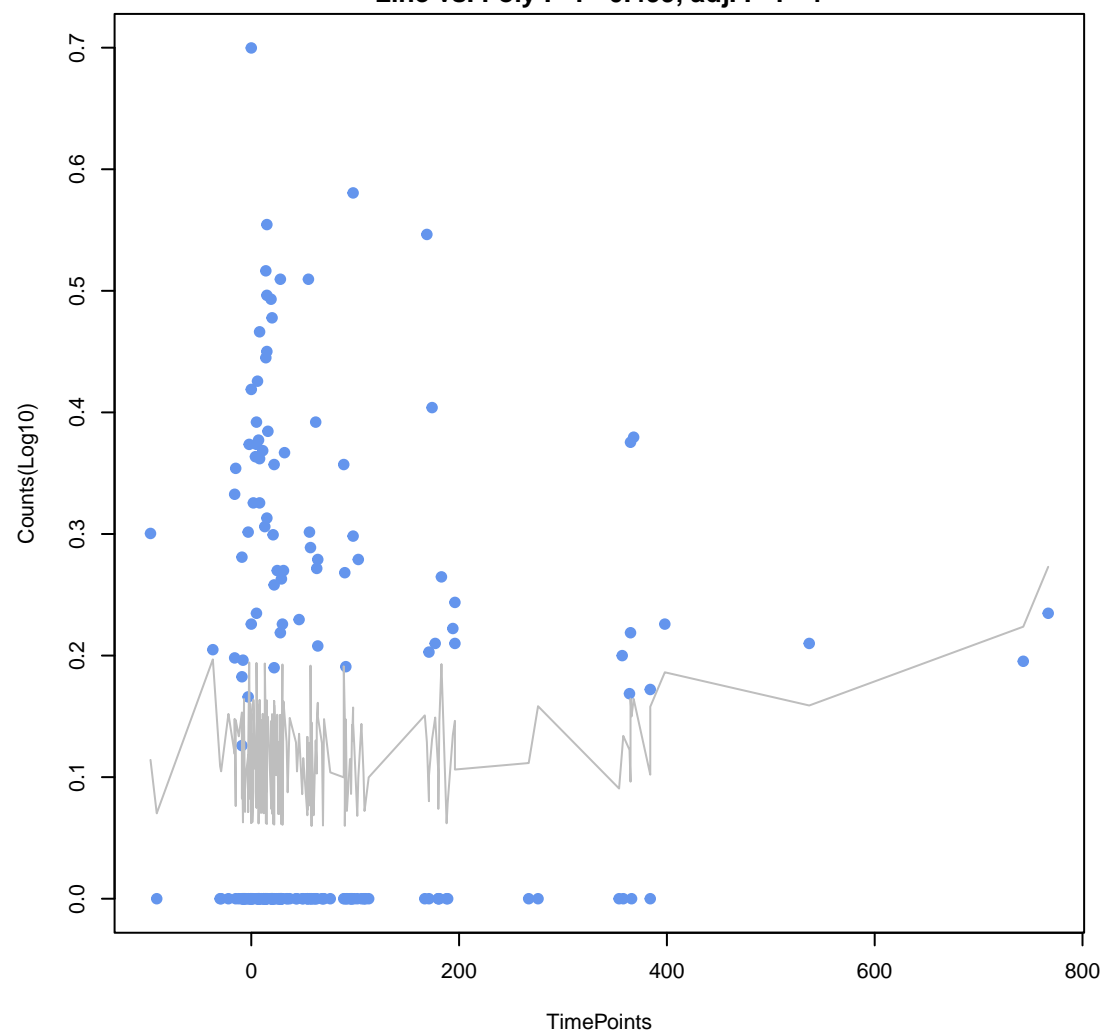
Escherichia coli acrA

ANOVA P=0.597, adj. ANOVA-P=0.83
Line vs. Poly F-P=0.497, adj. F-P=1



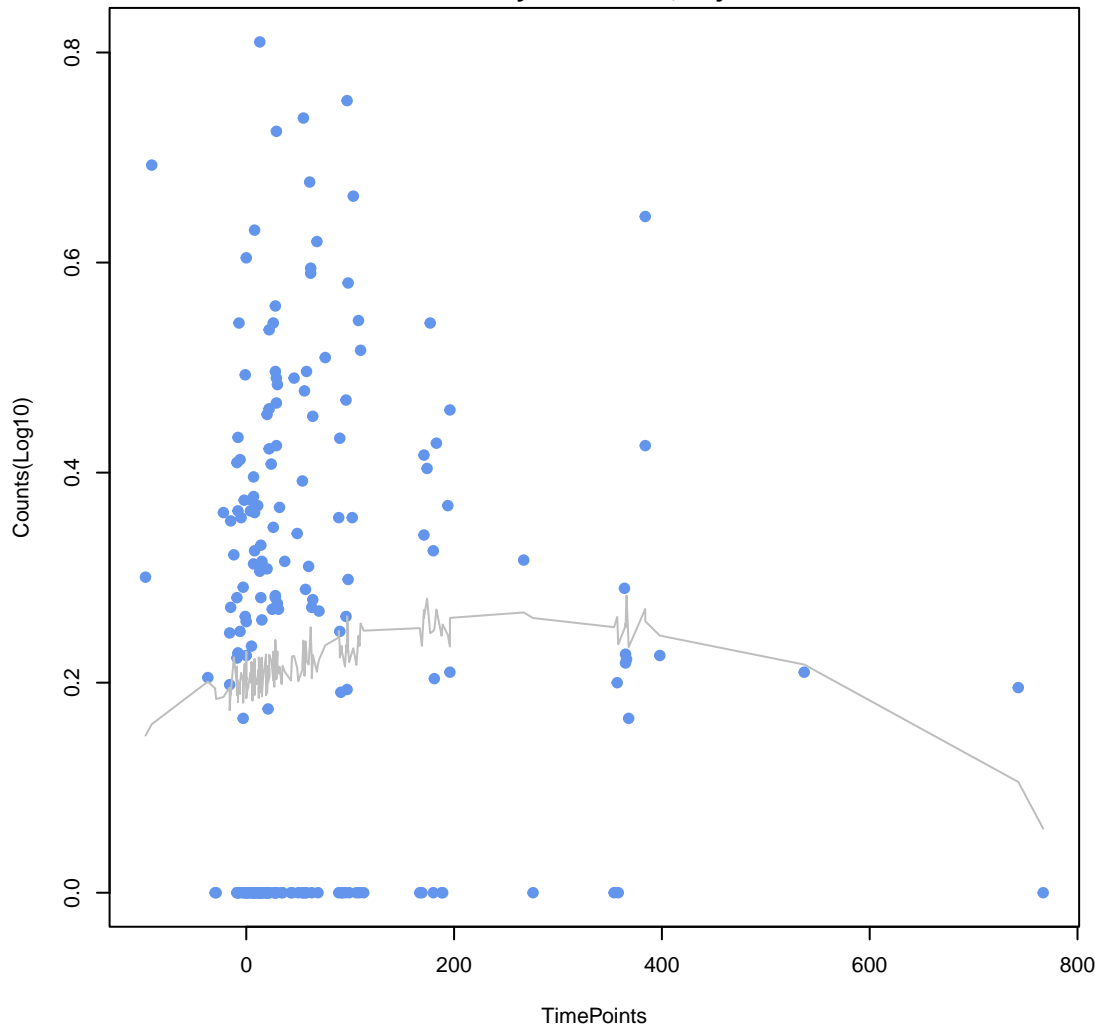
mdtE

ANOVA P=0.525, adj. ANOVA-P=0.803
Line vs. Poly F-P=0.499, adj. F-P=1



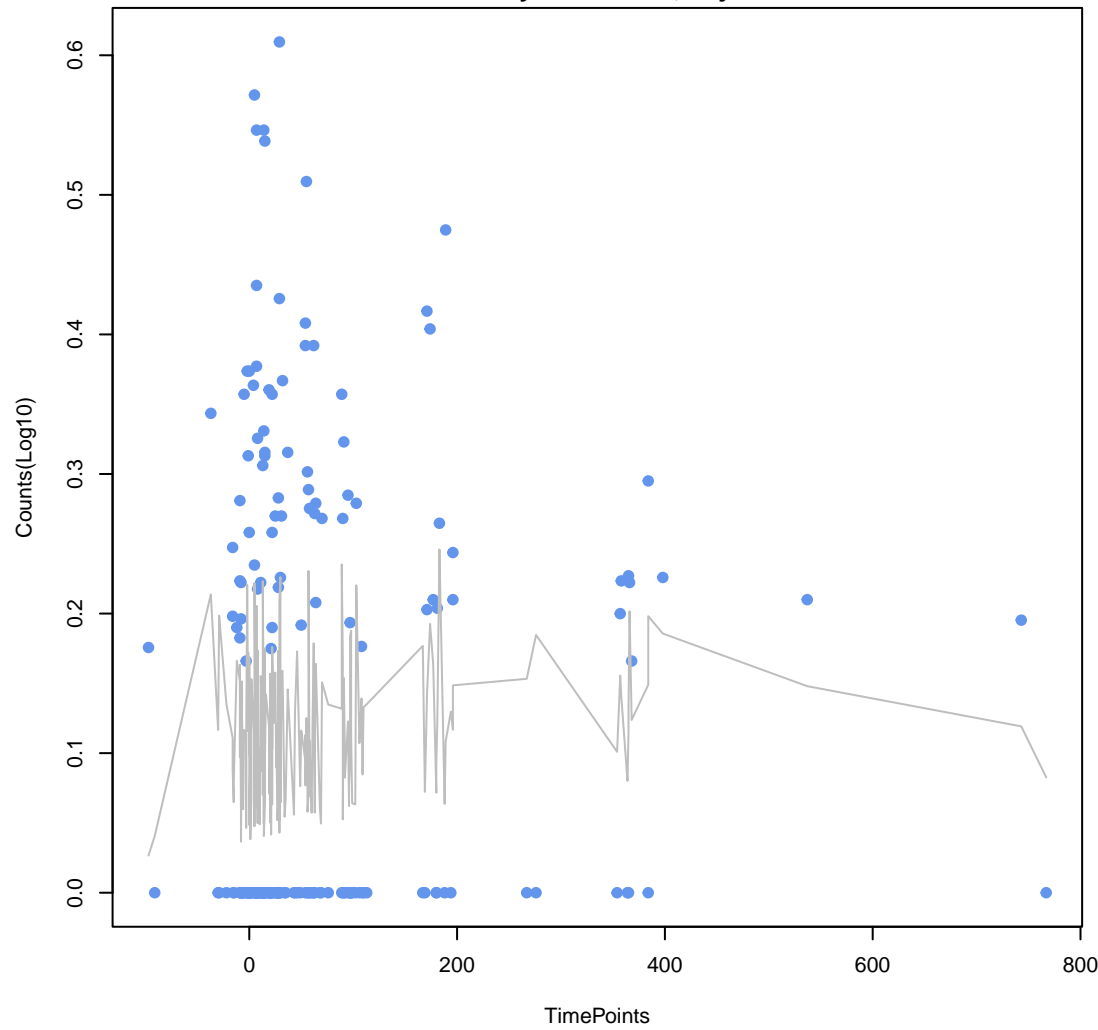
CRP

ANOVA P=0.31, adj. ANOVA-P=0.773
Line vs. Poly F-P=0.509, adj. F-P=1



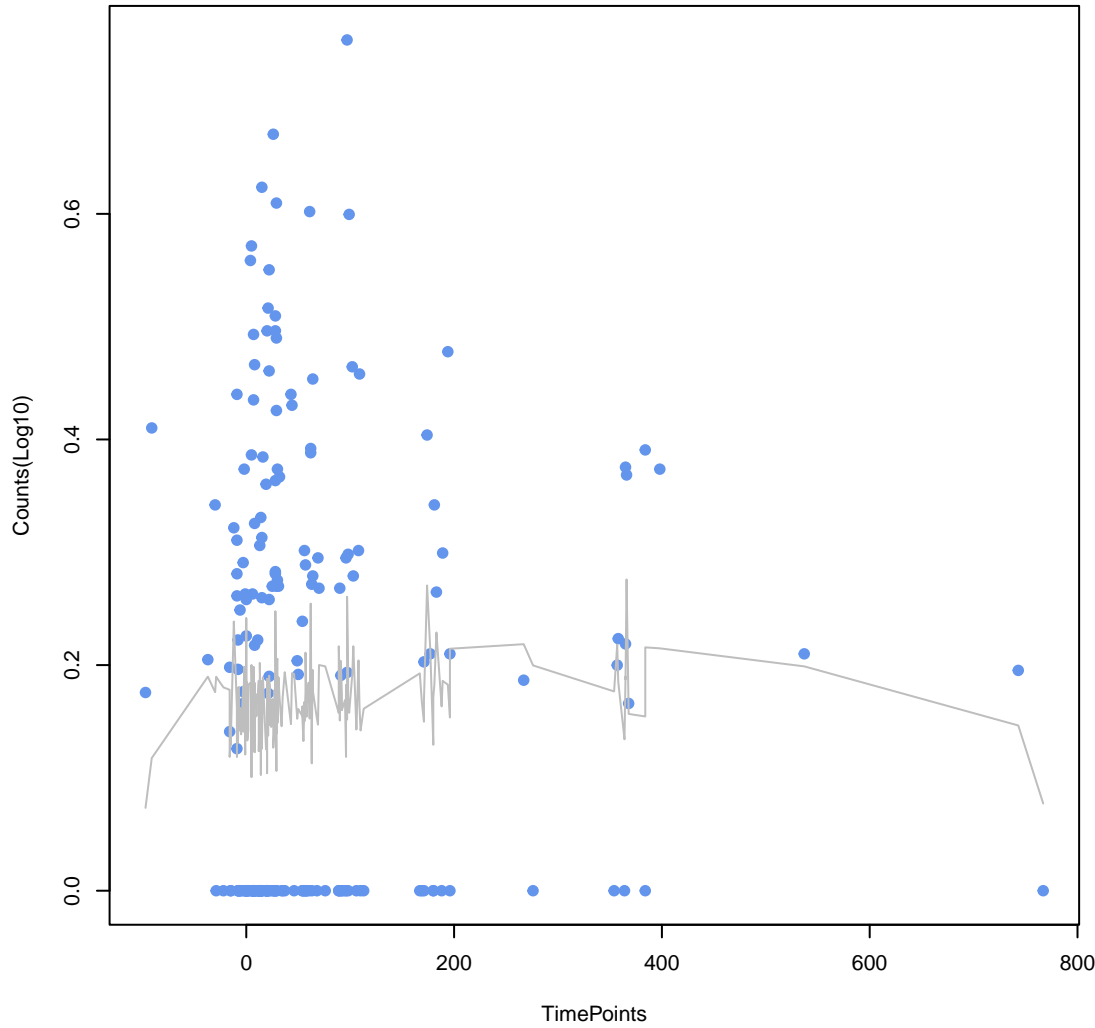
Escherichia coli soxR with mutation conferring antibiotic resistance

ANOVA P=0.614, adj. ANOVA-P=0.832
Line vs. Poly F-P=0.523, adj. F-P=1



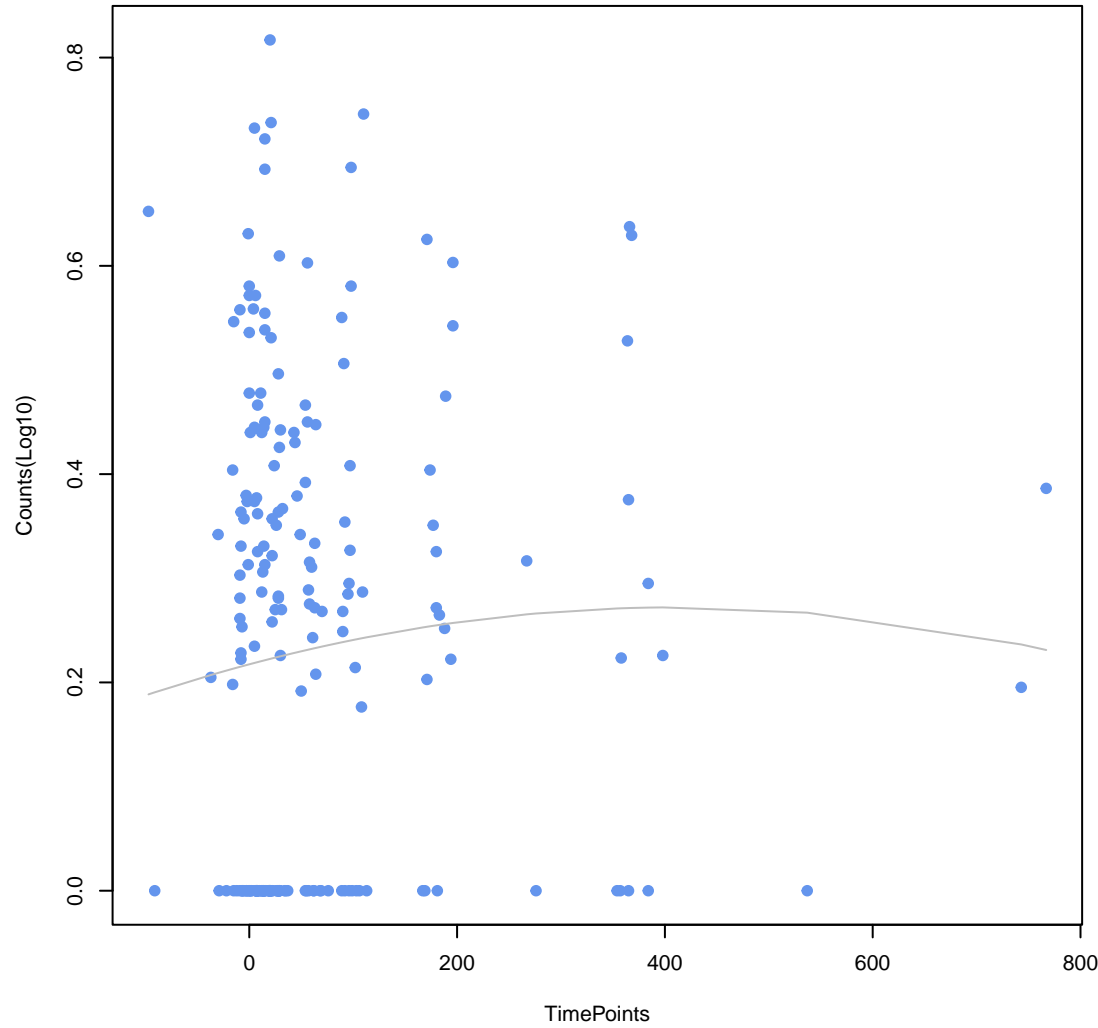
Escherichia coli mdfA

ANOVA P=0.626, adj. ANOVA-P=0.836
Line vs. Poly F-P=0.525, adj. F-P=1



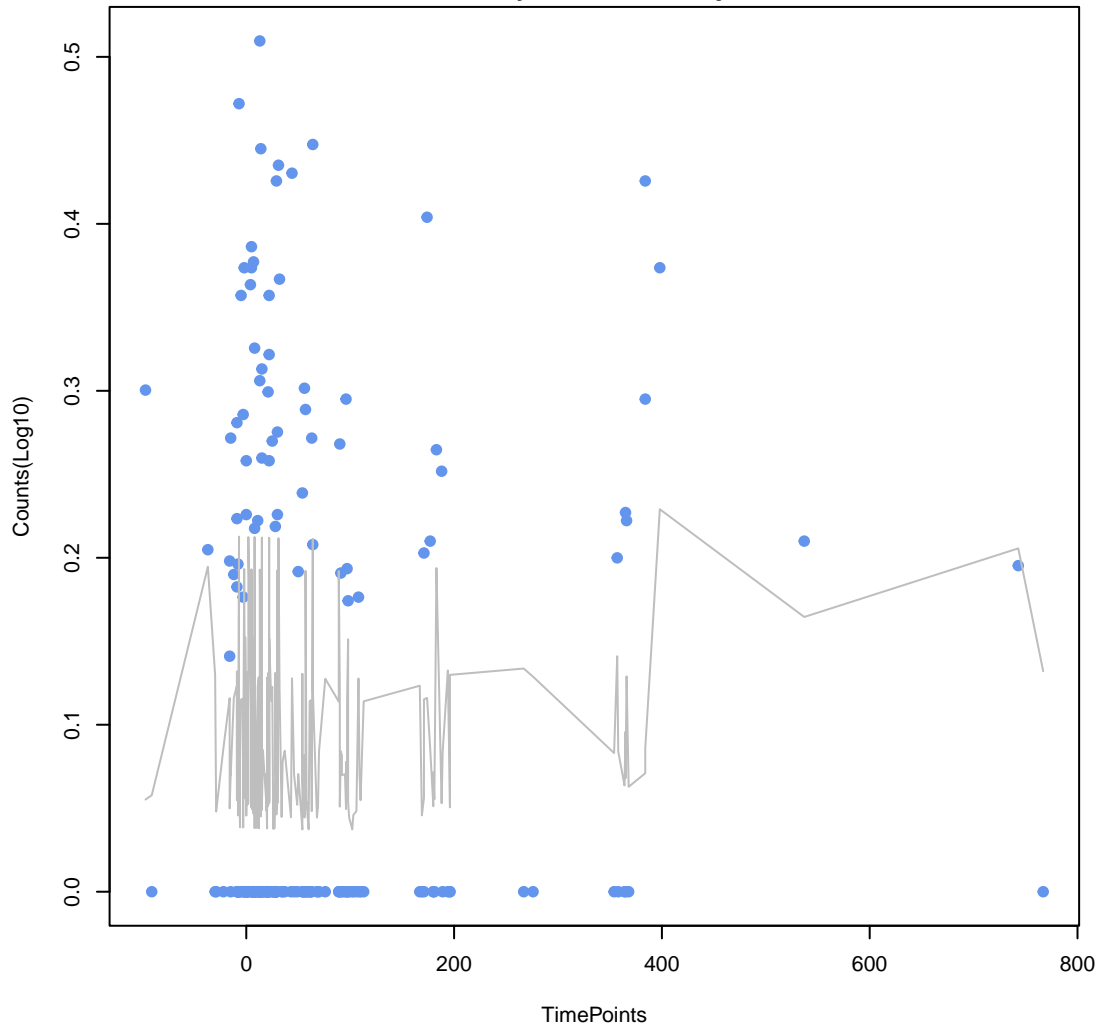
AcrF

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



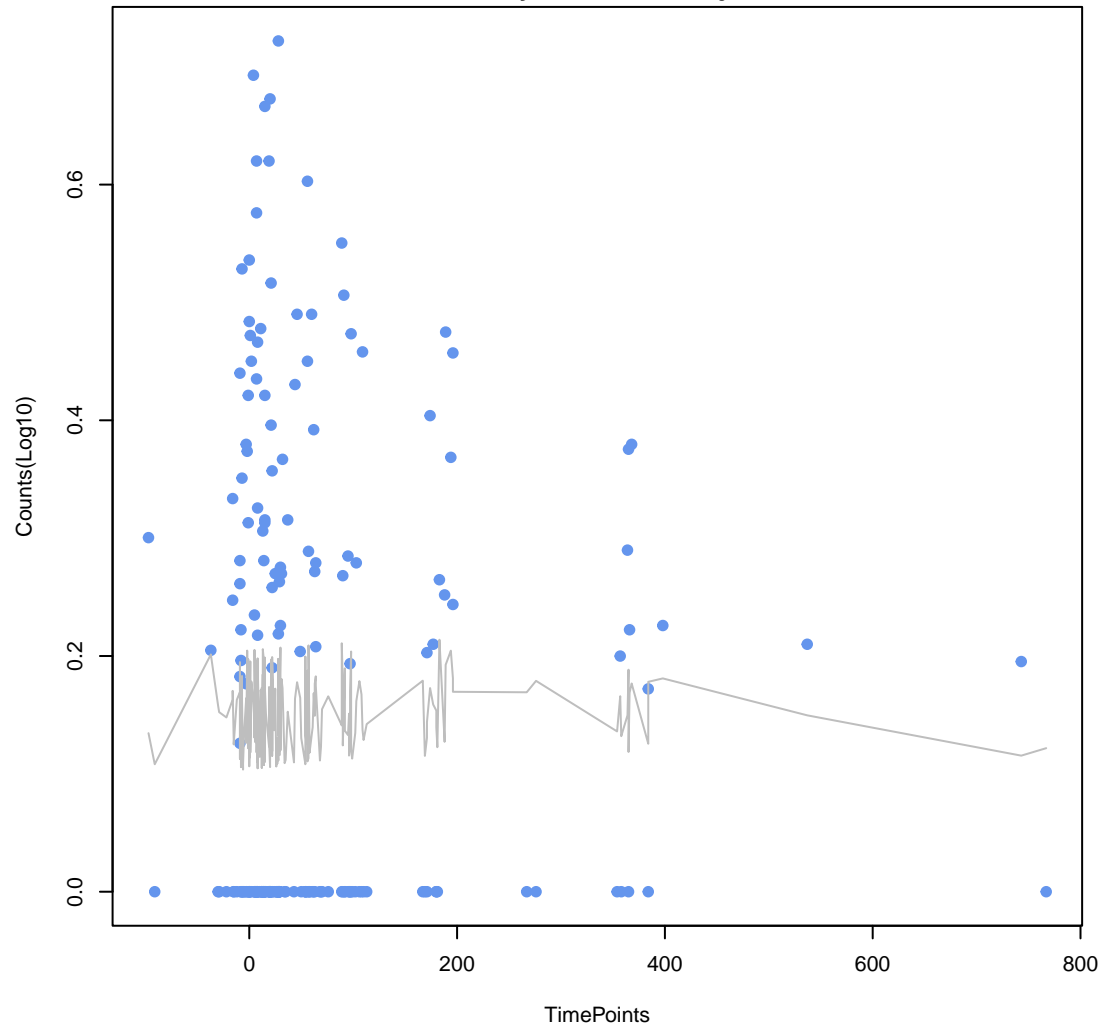
Escherichia coli AcrAB-TolC with AcrR mutation conferring resistance to ciprofloxacin, tetracycline

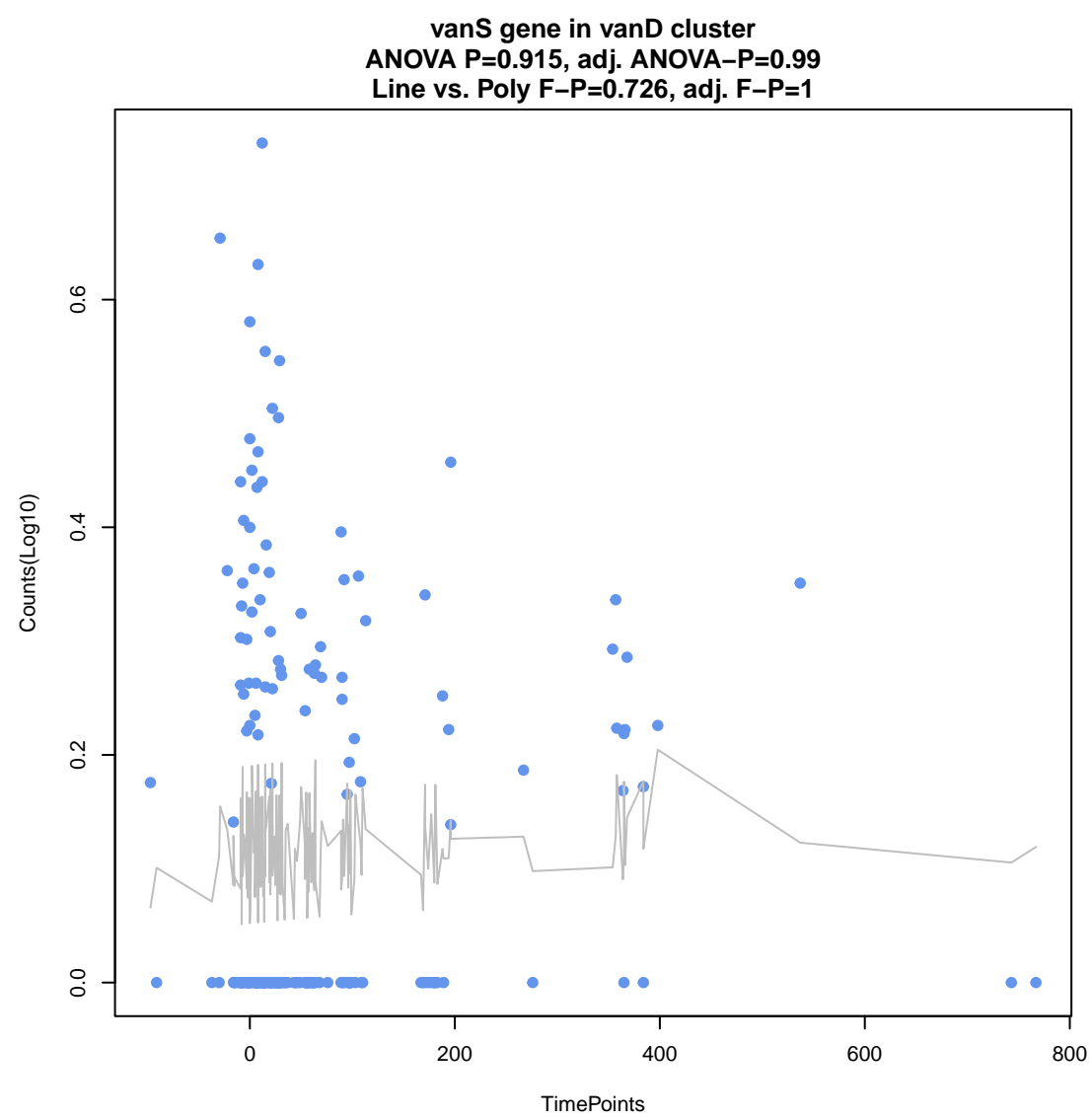
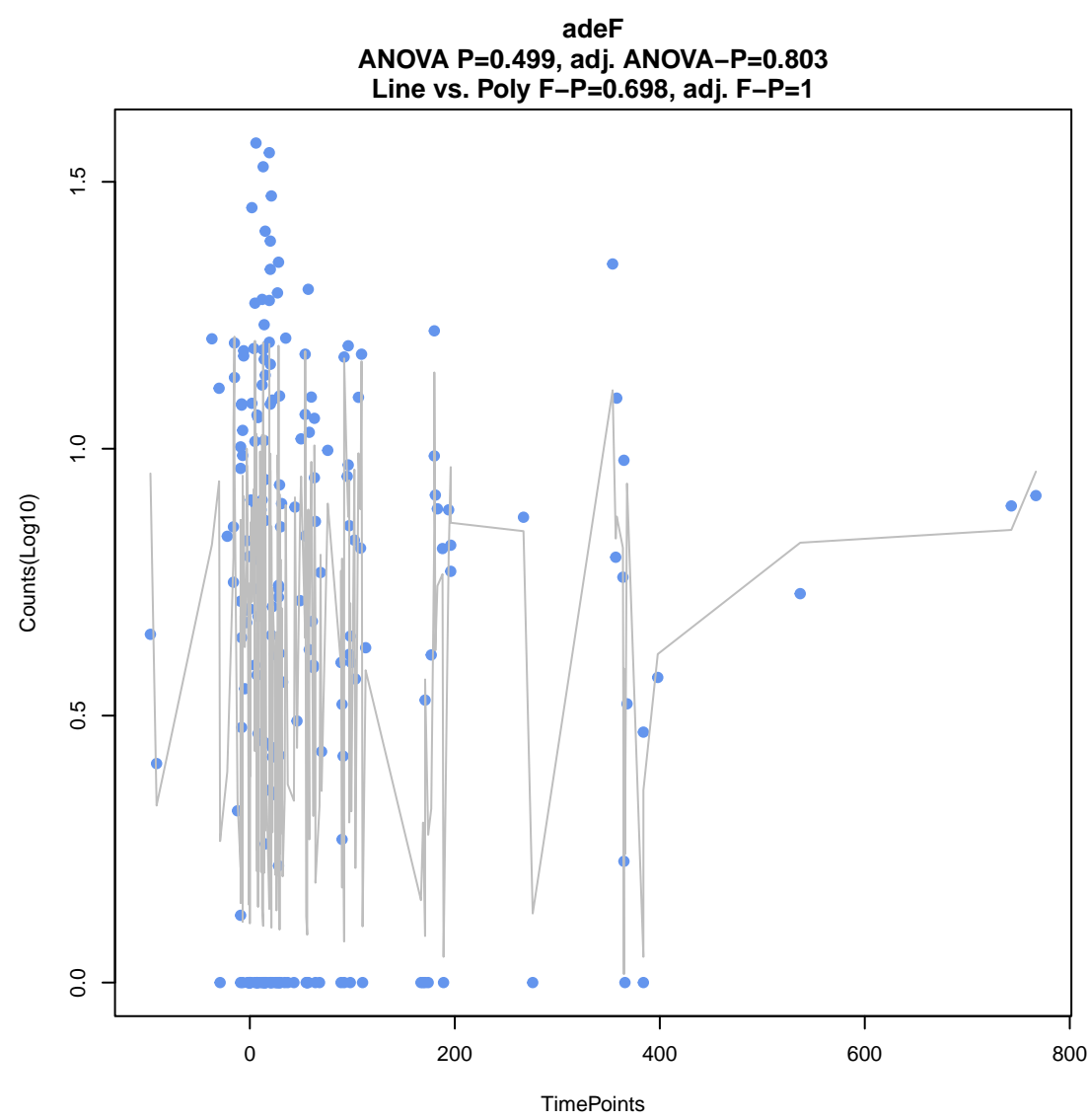
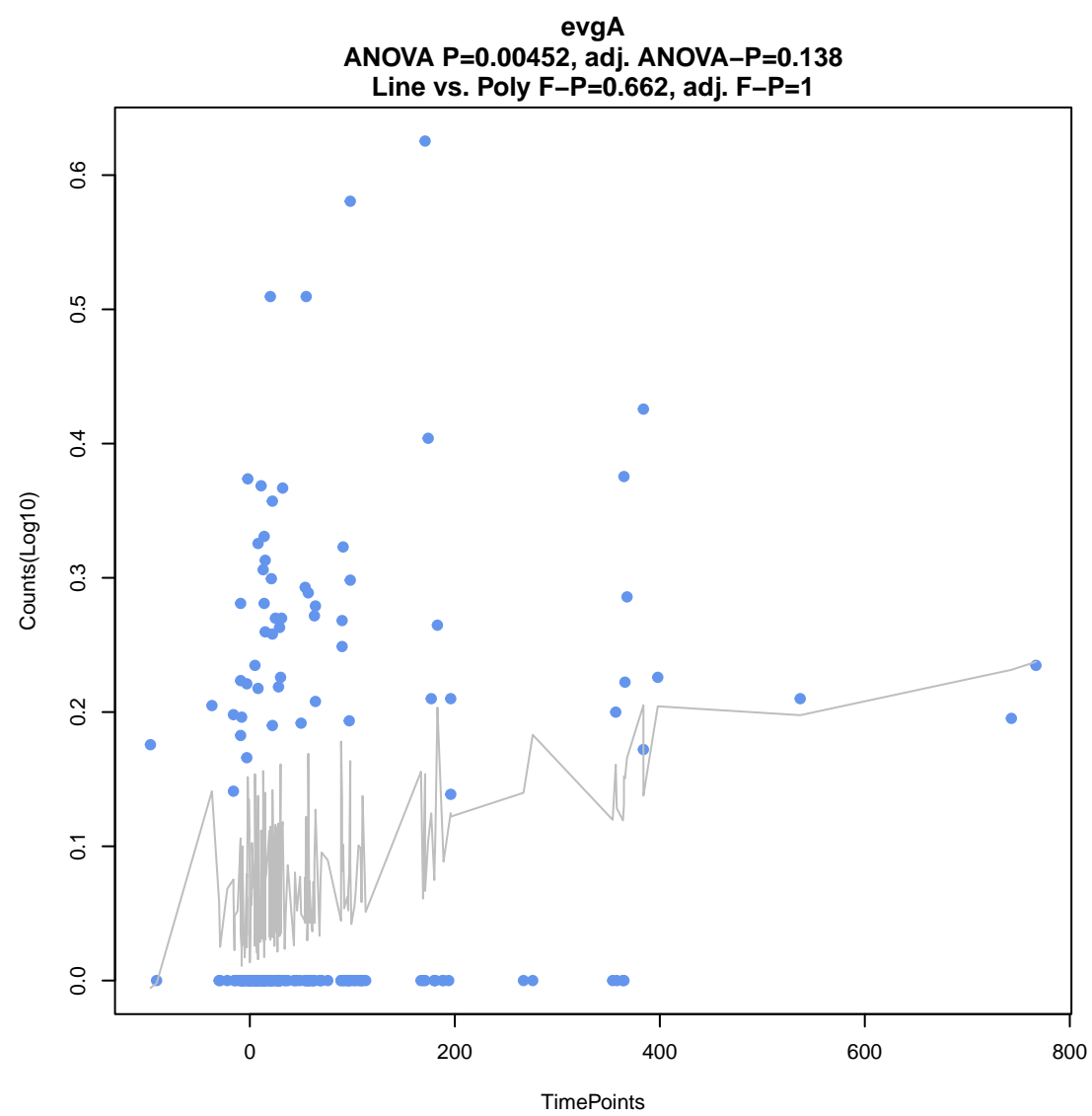
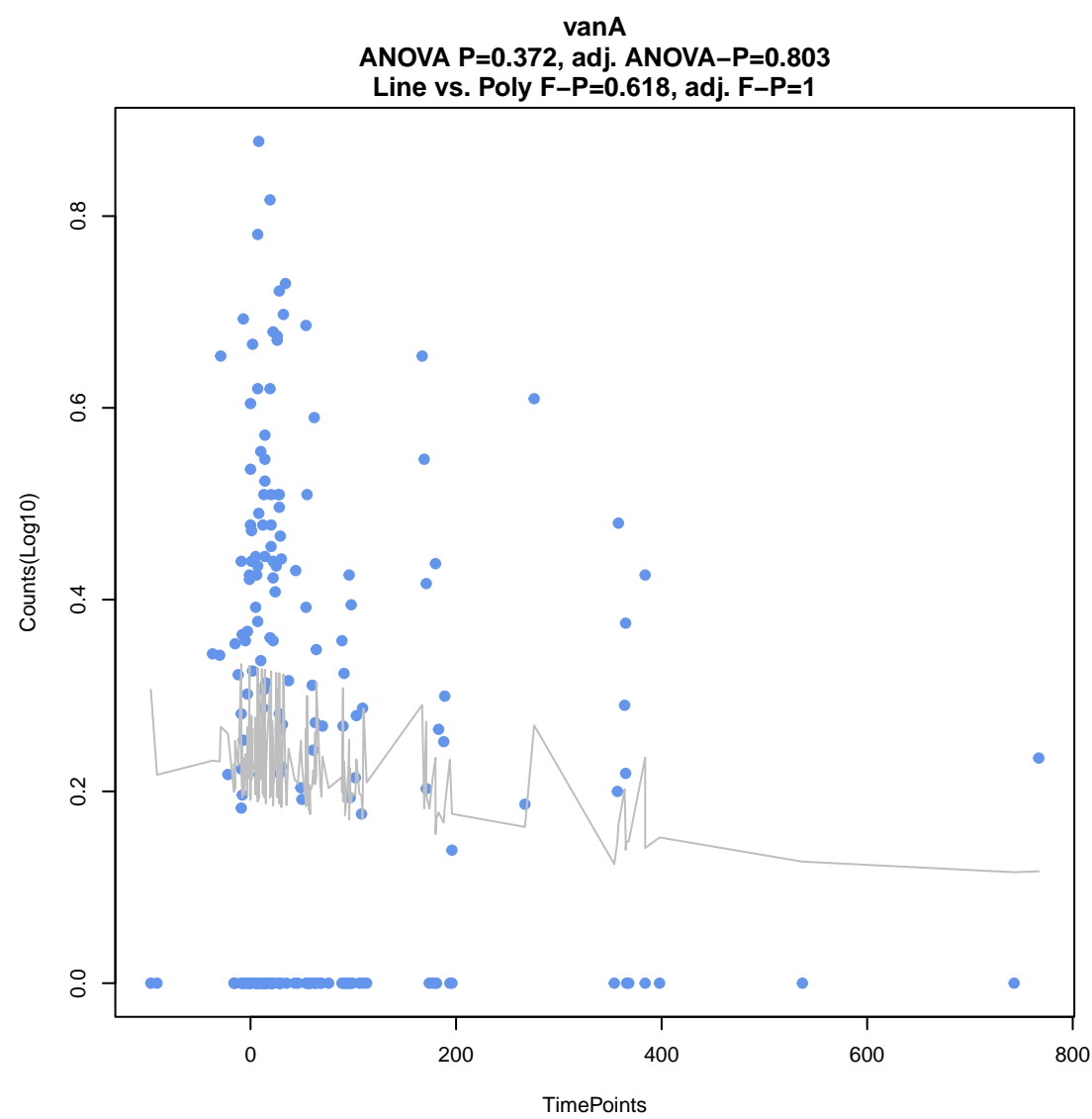
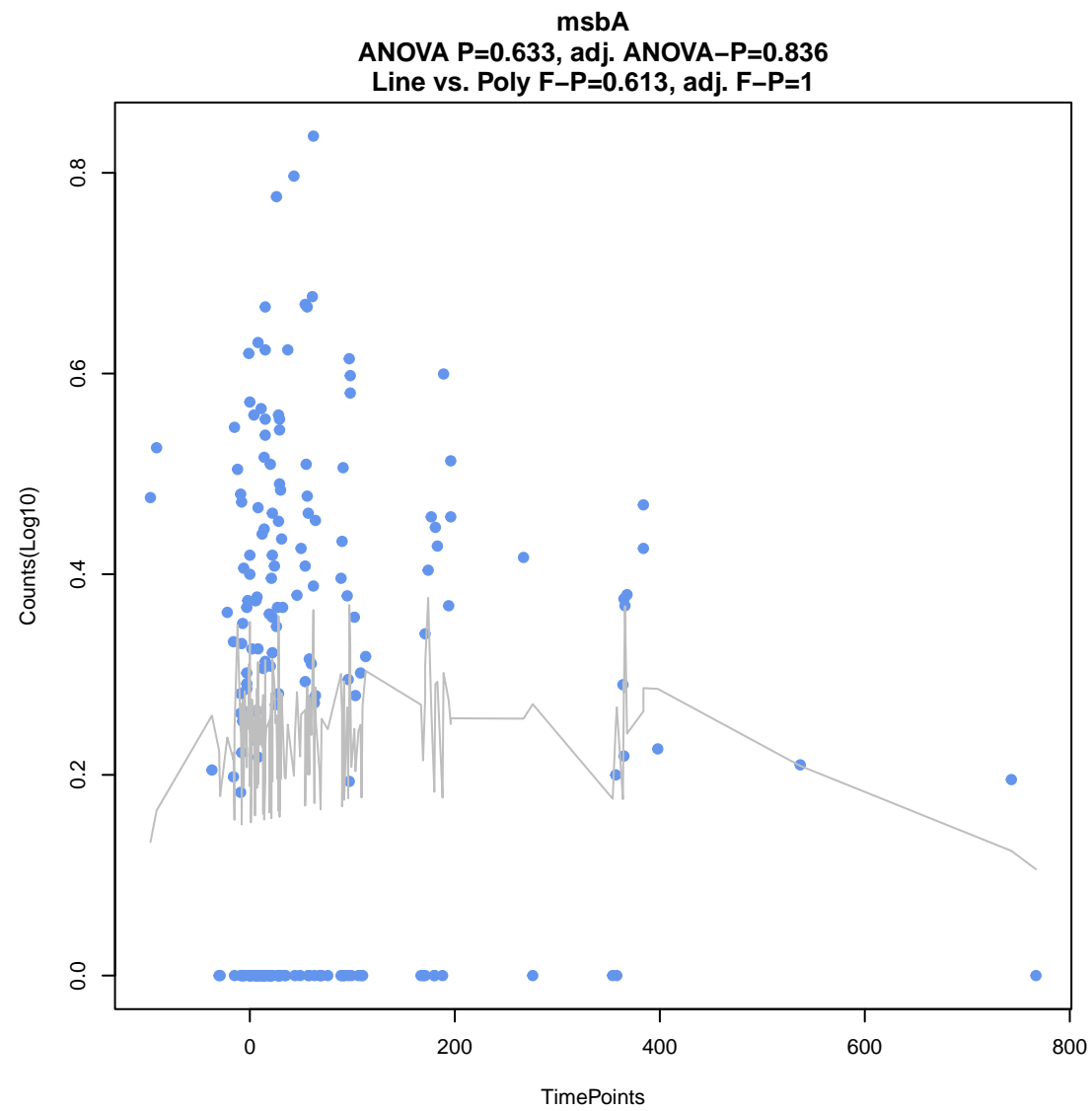
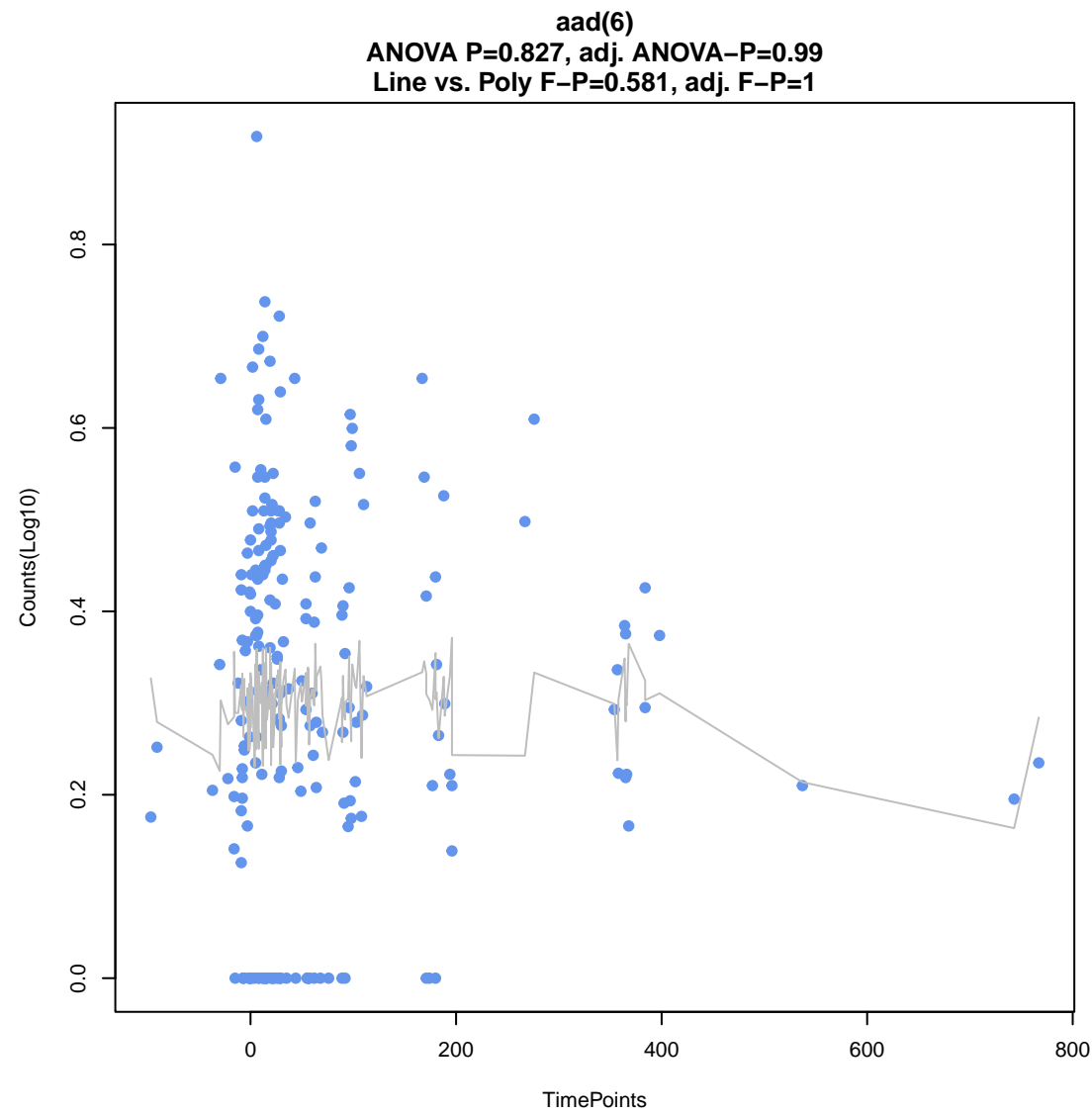
ANOVA P=0.647, adj. ANOVA-P=0.84
Line vs. Poly F-P=0.548, adj. F-P=1



mdtP

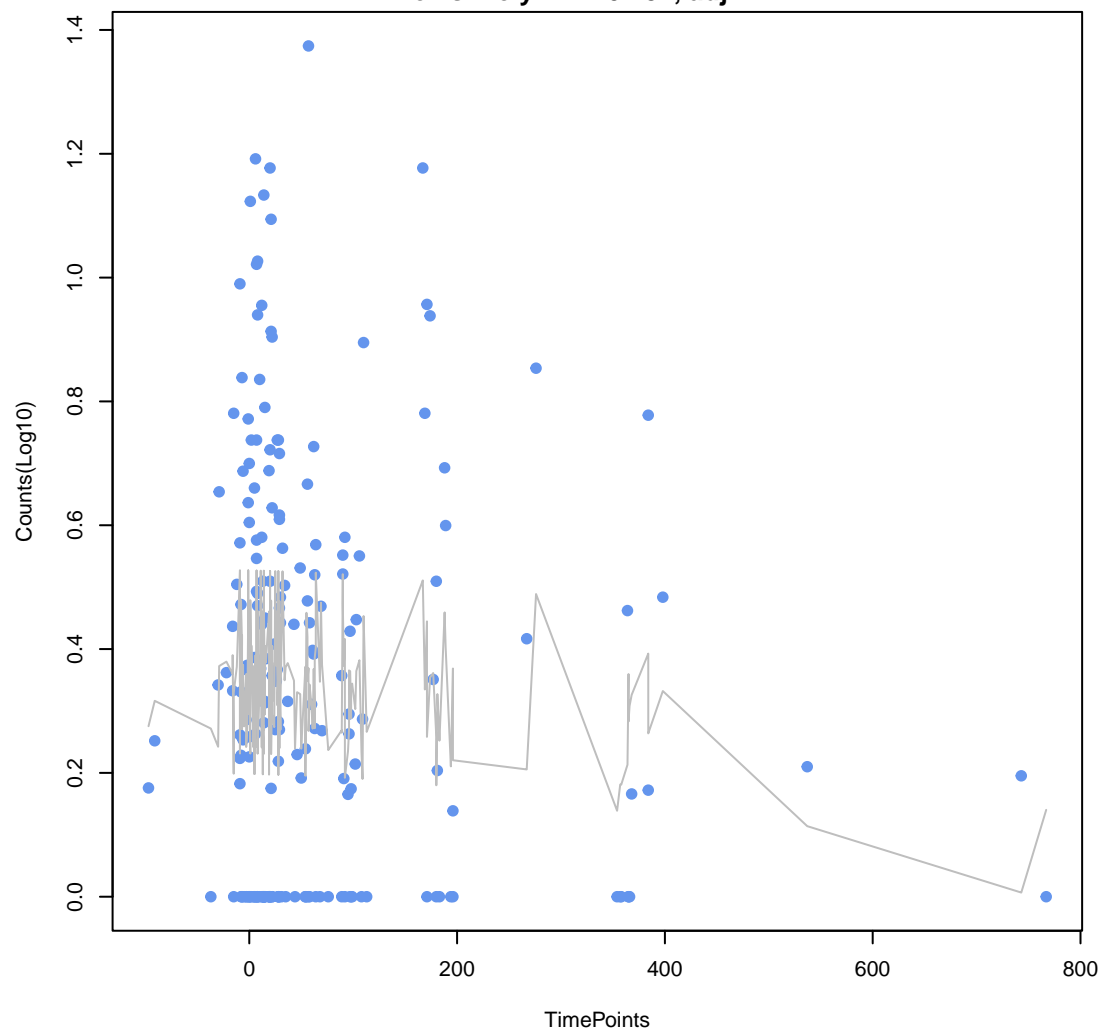
ANOVA P=0.909, adj. ANOVA-P=0.99
Line vs. Poly F-P=0.553, adj. F-P=1





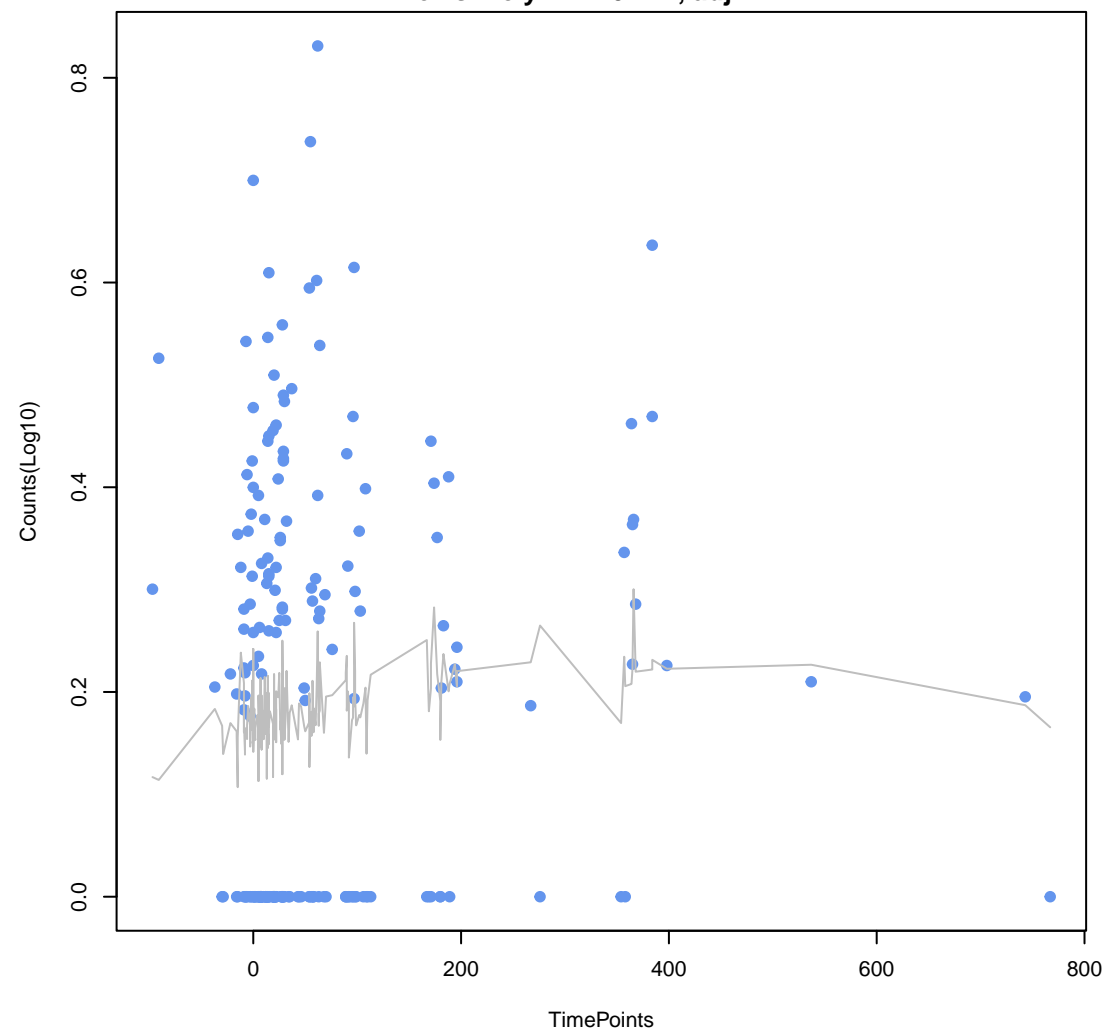
ImrD

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



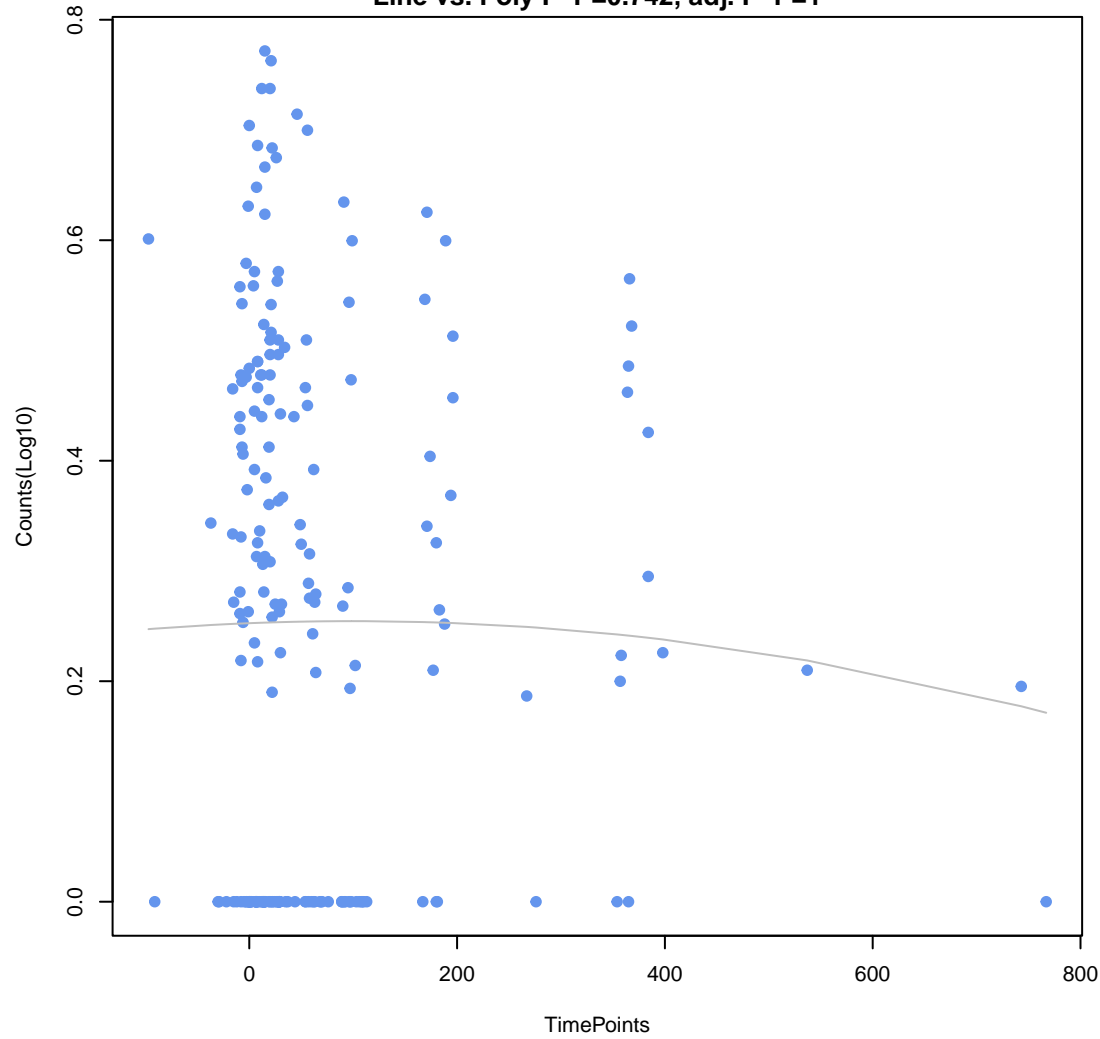
baeR

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



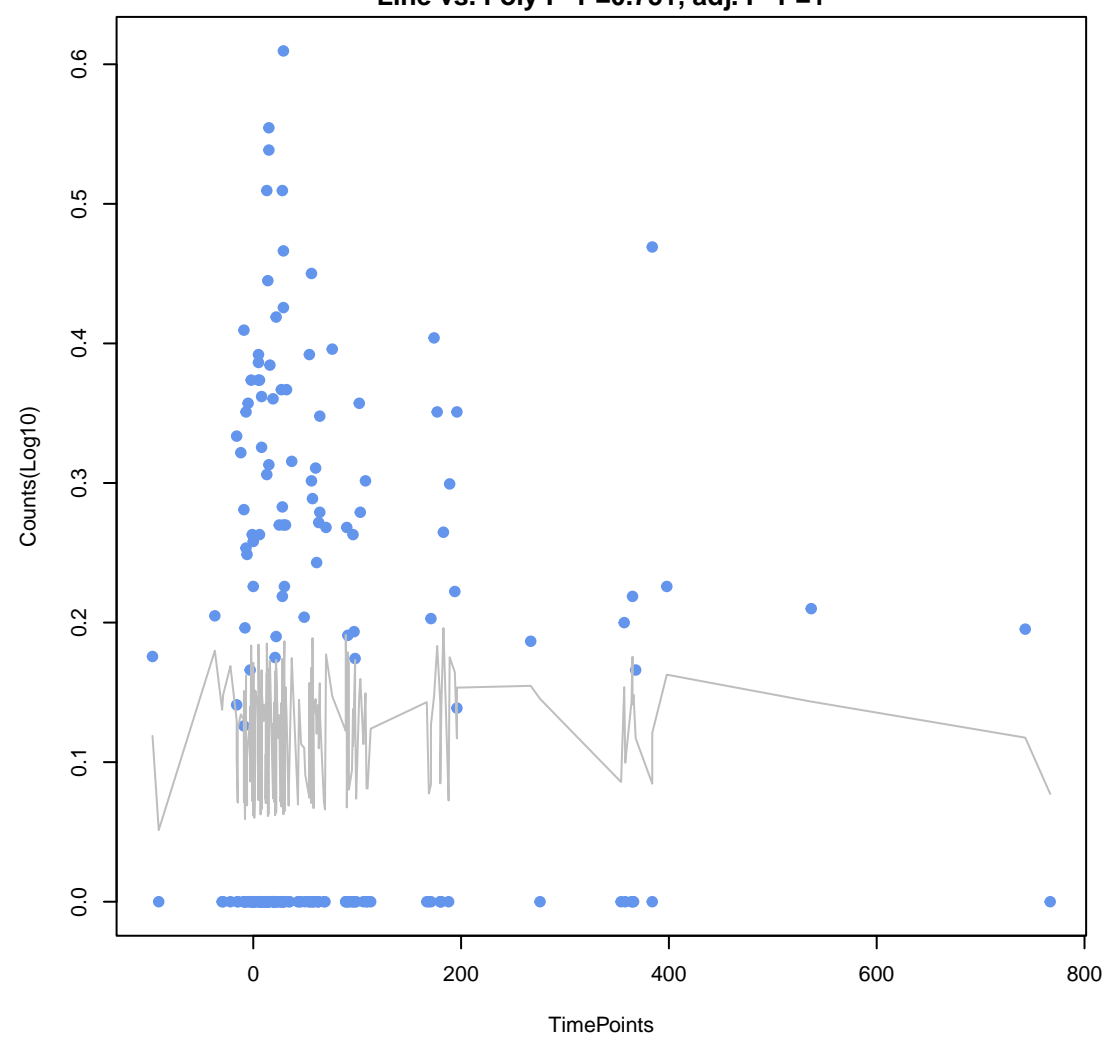
evgS

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



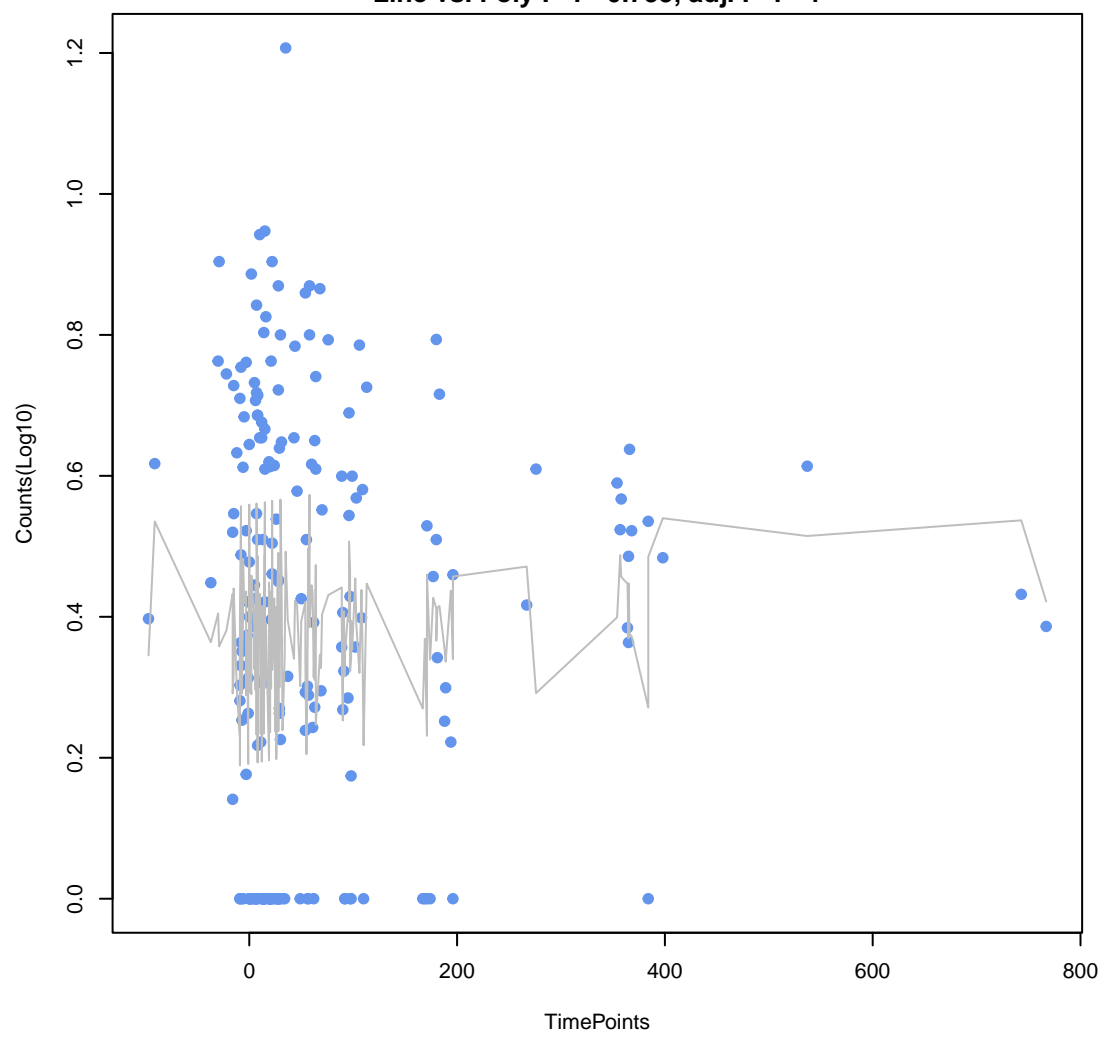
kdpE

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



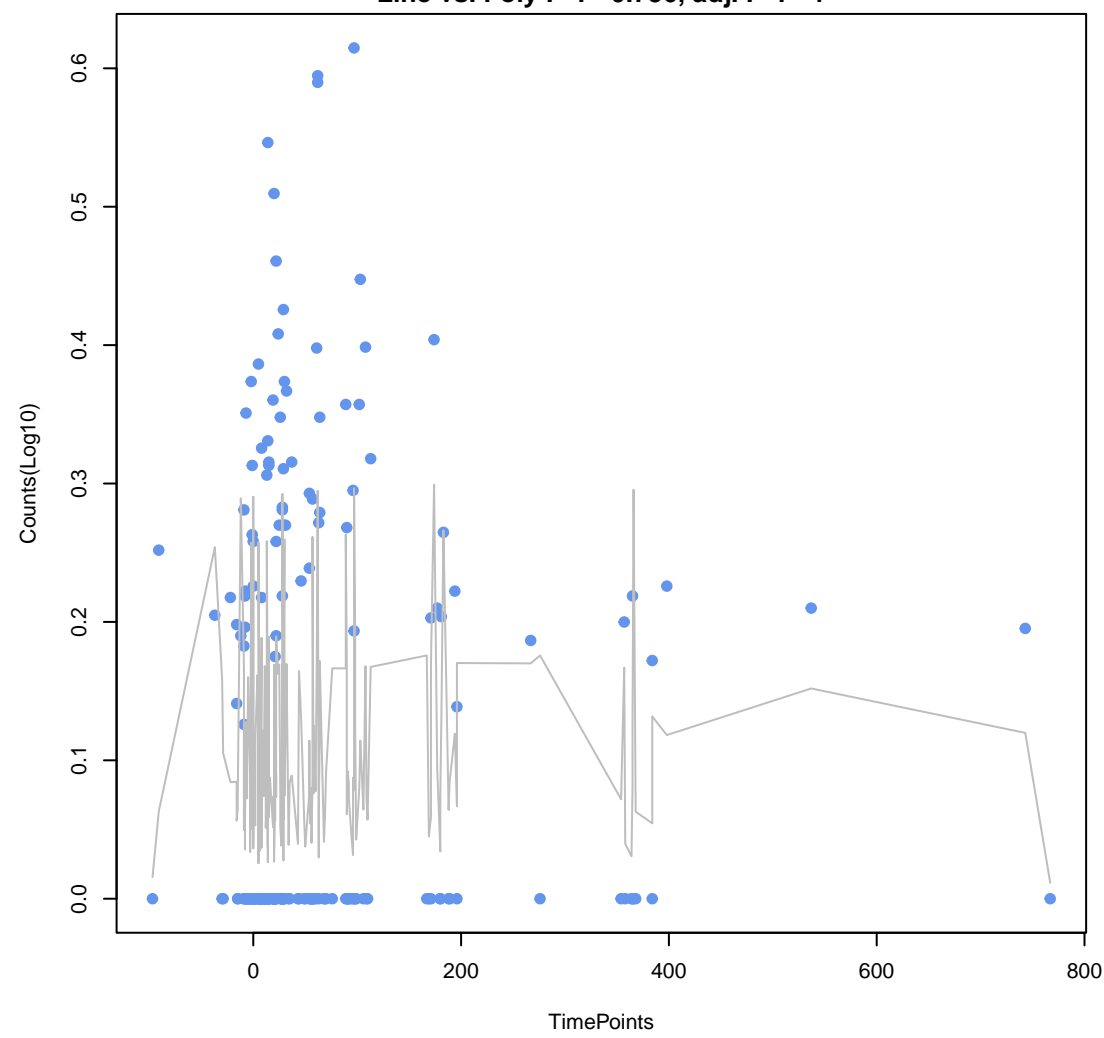
poxA

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

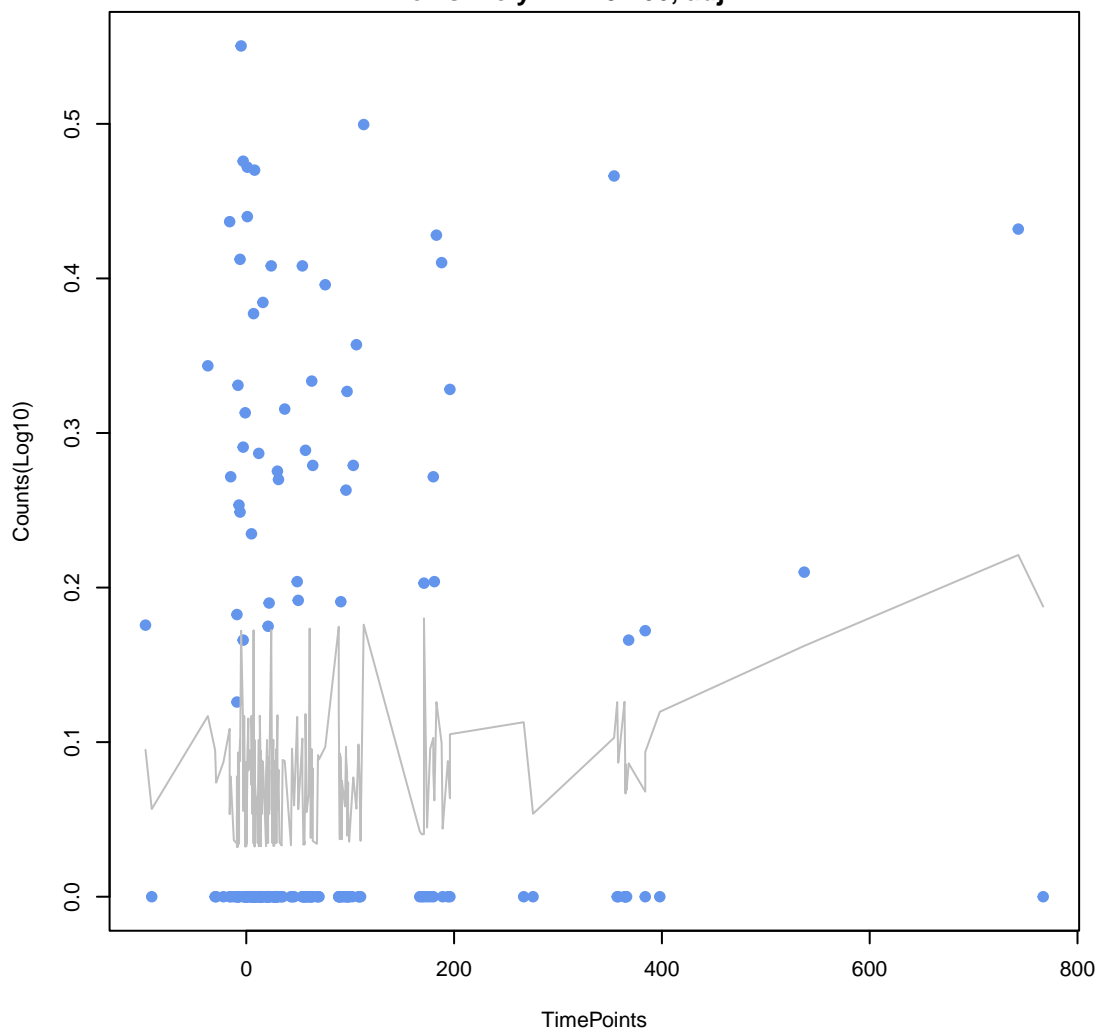


rsmA

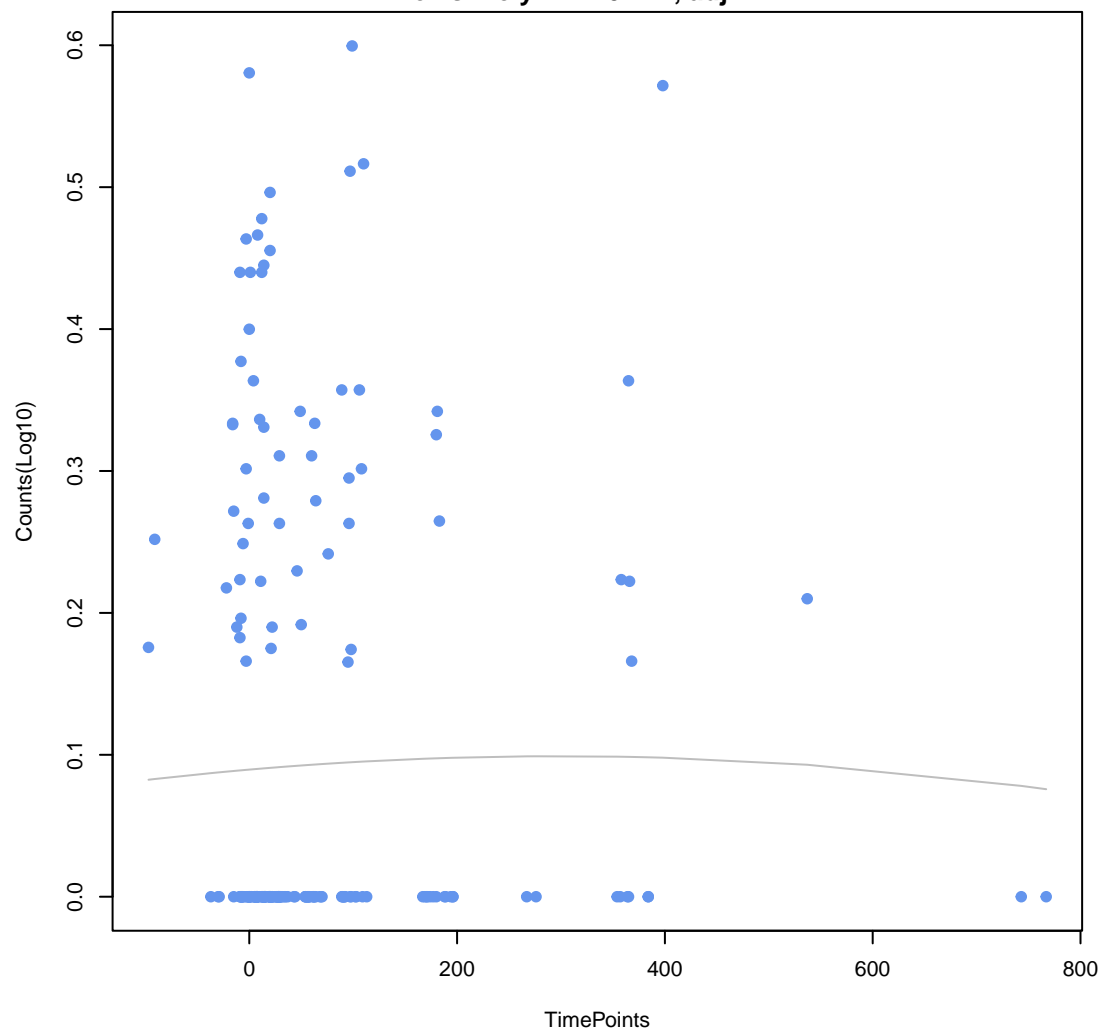
ANOVA P=0.848, adj. ANOVA-P=0.99
Line vs. Poly F-P=0.756, adj. F-P=1



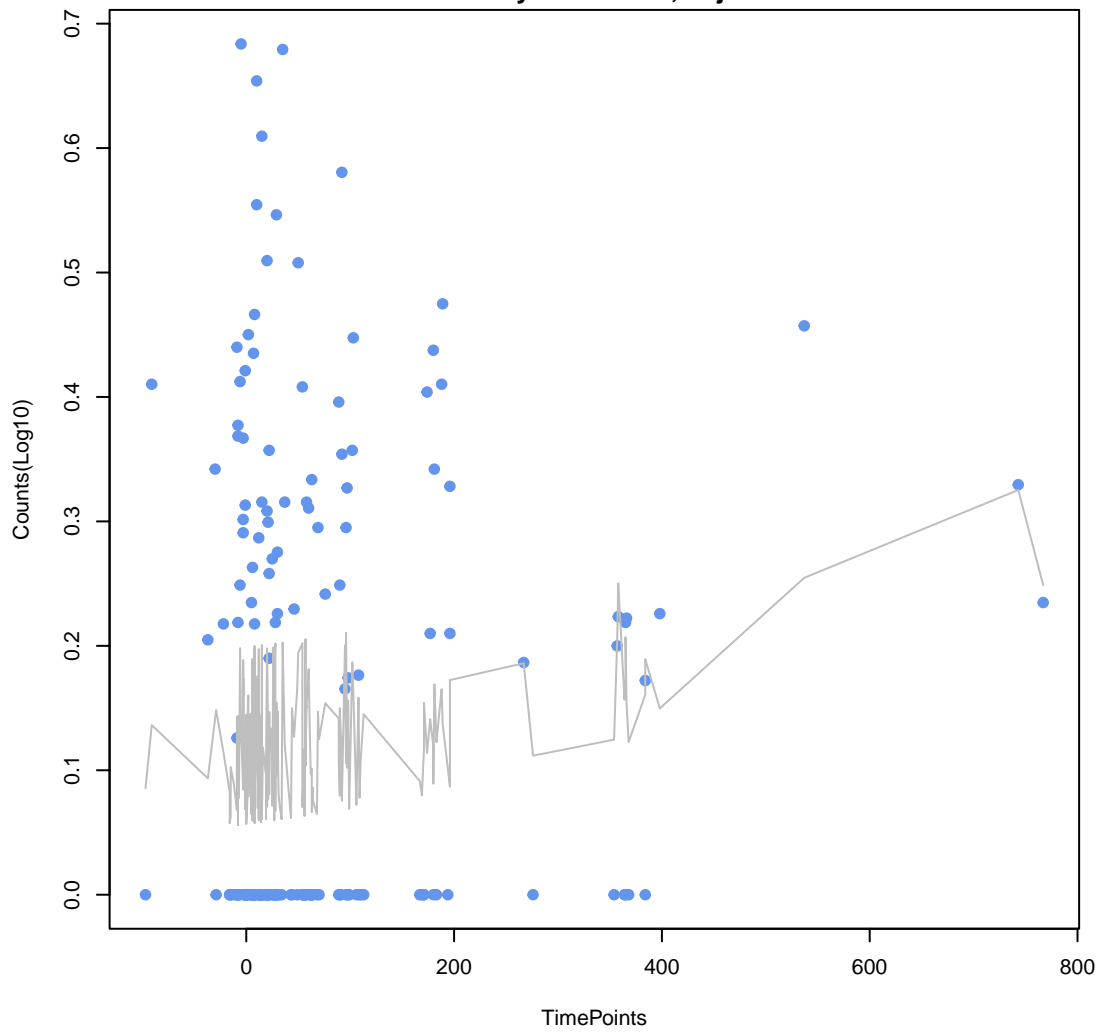
SHV-43

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

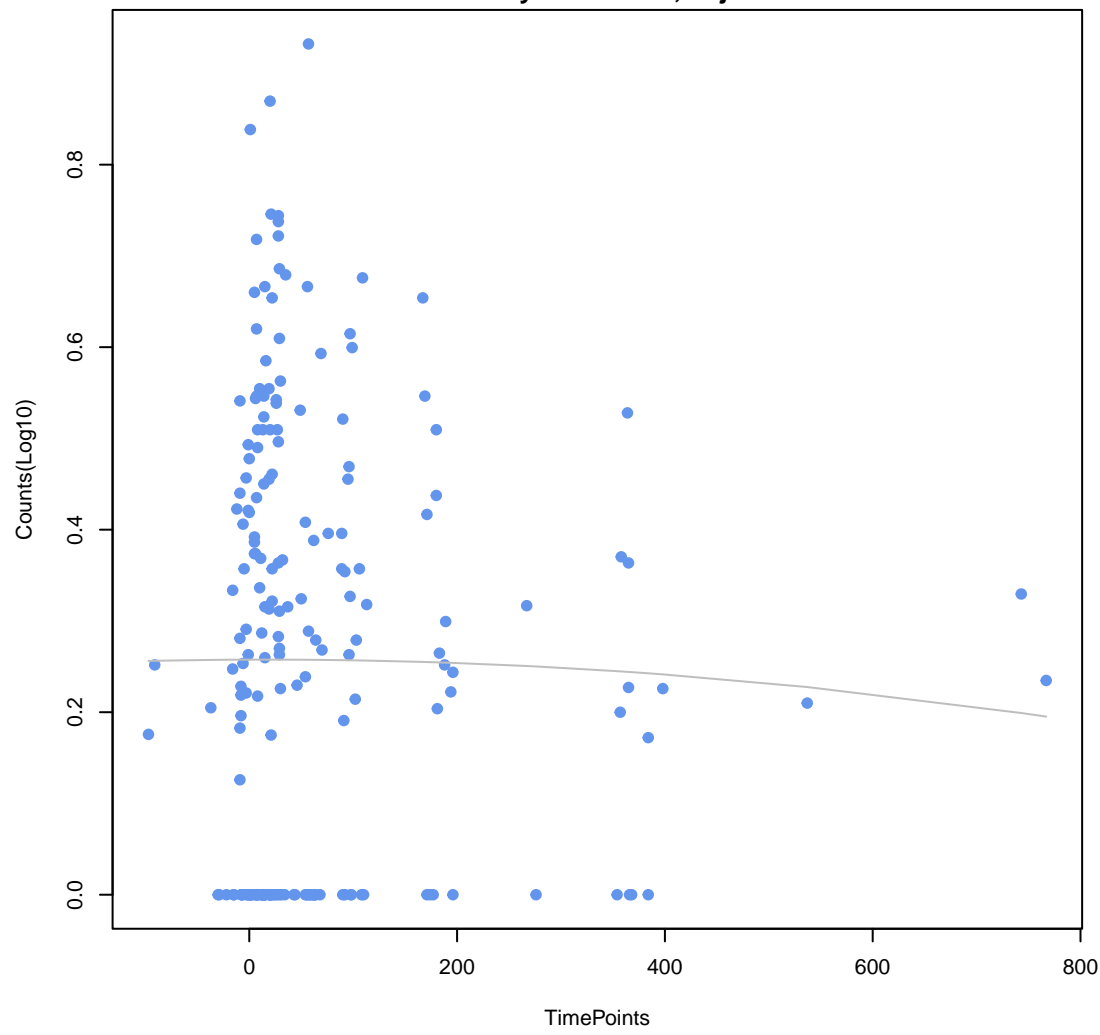
TaeA

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

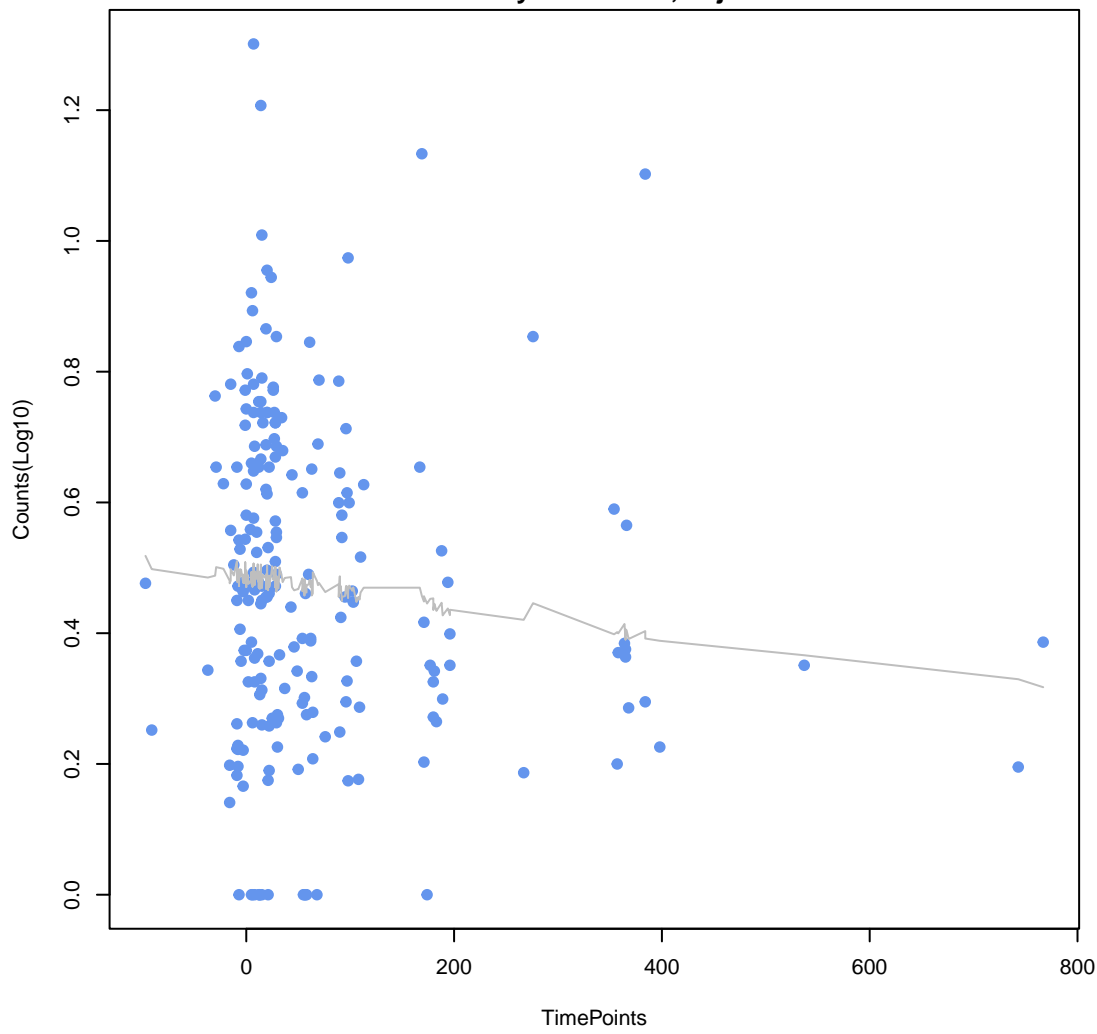
myrA

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

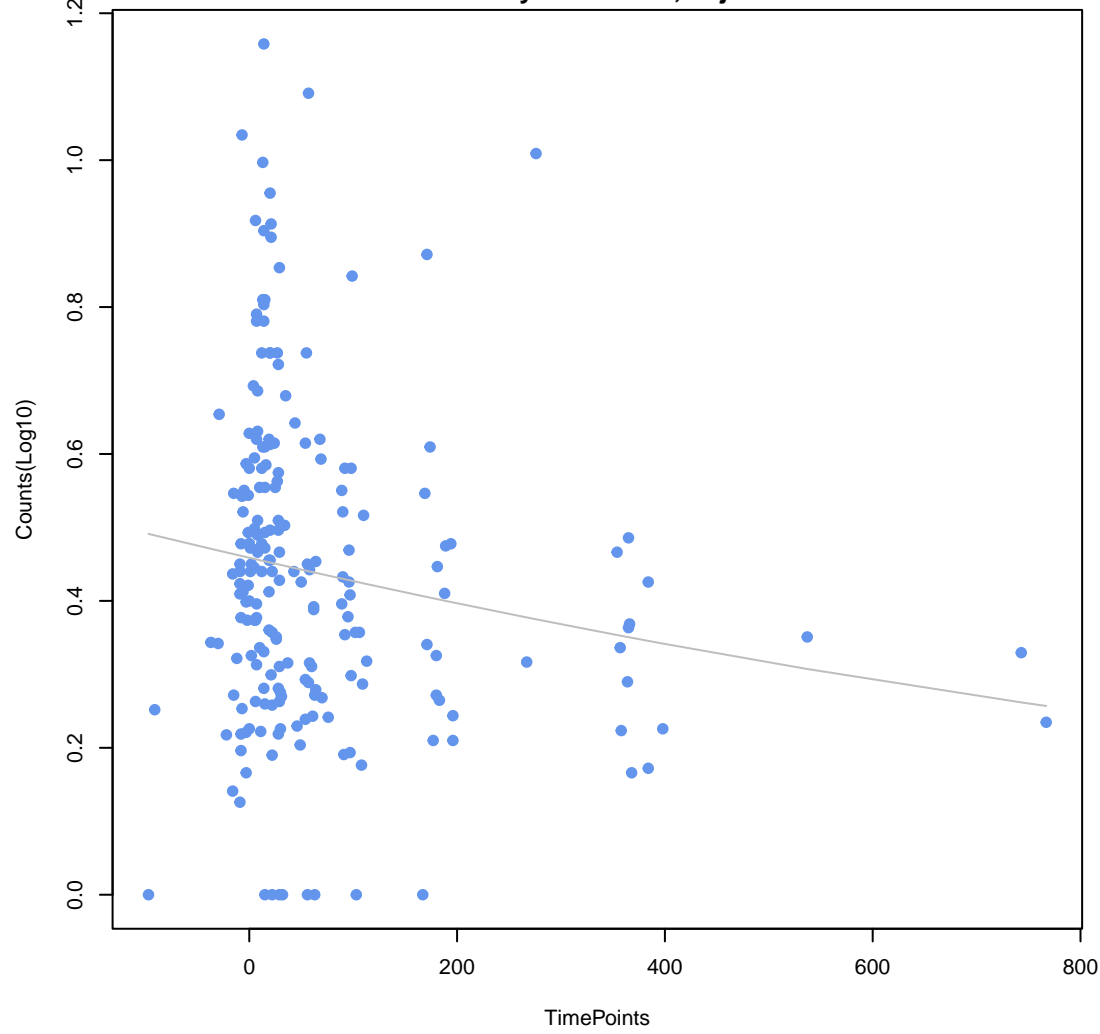
fexA

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

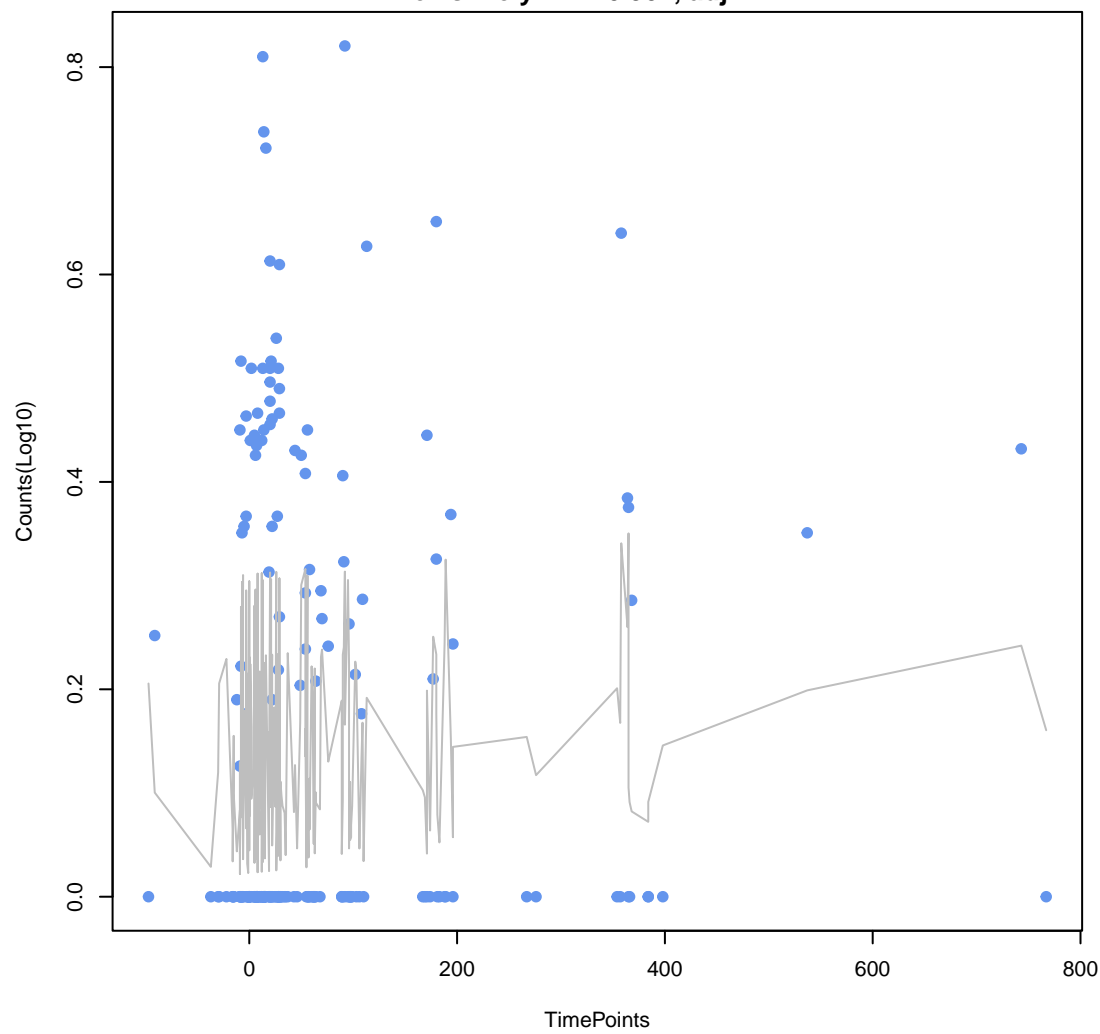
tet(M)

ANOVA P=0.34, adj. ANOVA-P=0.777
Line vs. Poly F-P=0.847, adj. F-P=1

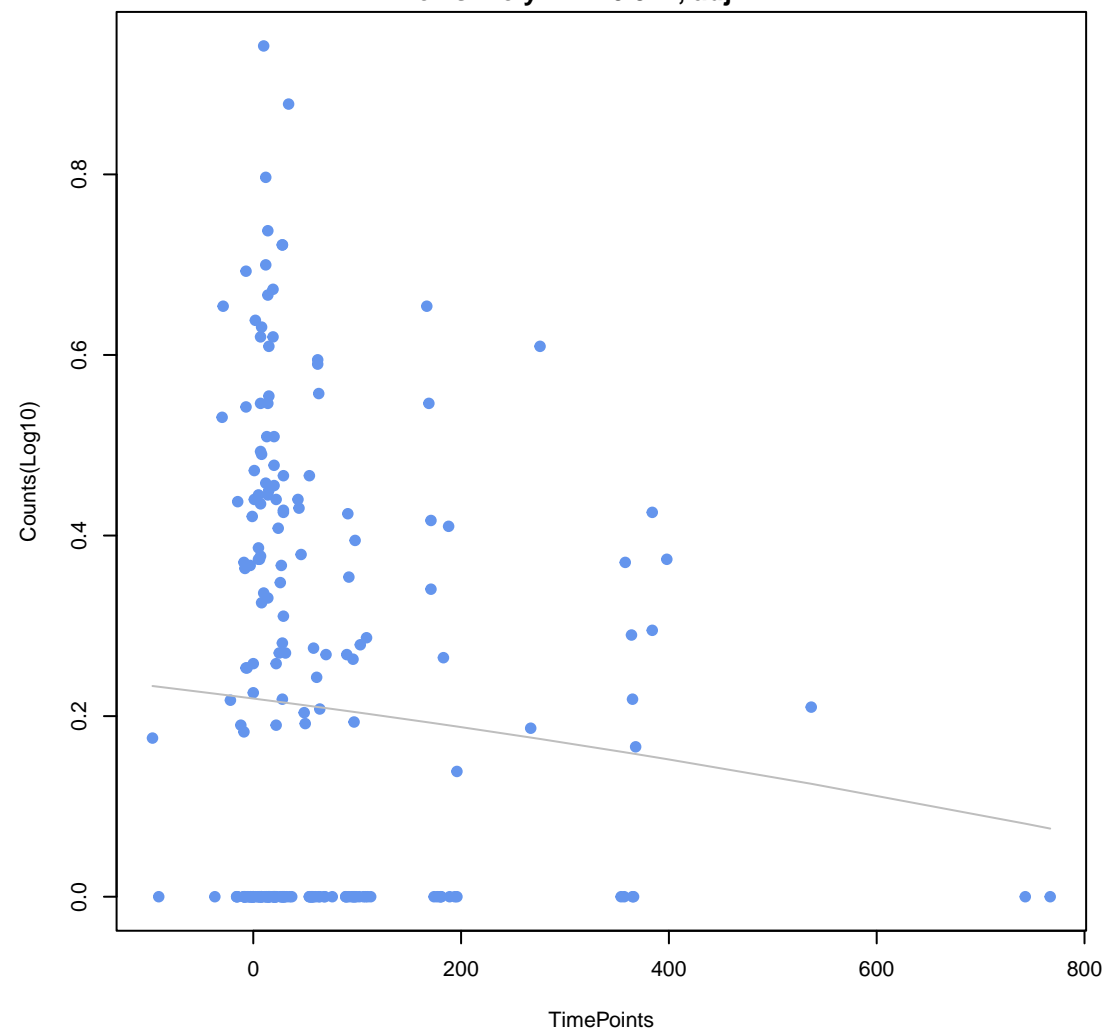
tet(W)

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

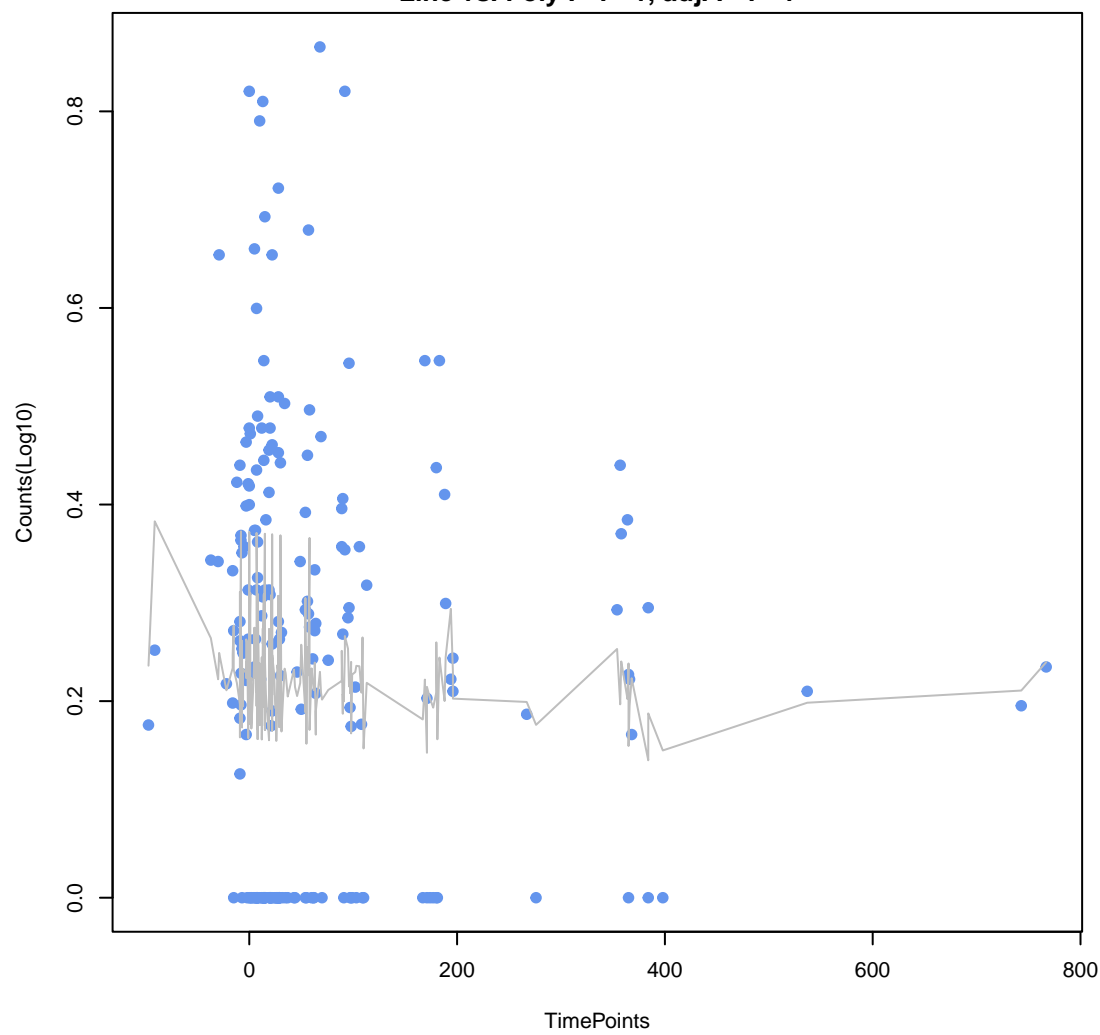
mdeA
ANOVA P=0.466, adj. ANOVA-P=0.803
Line vs. Poly F-P=0.901, adj. F-P=1



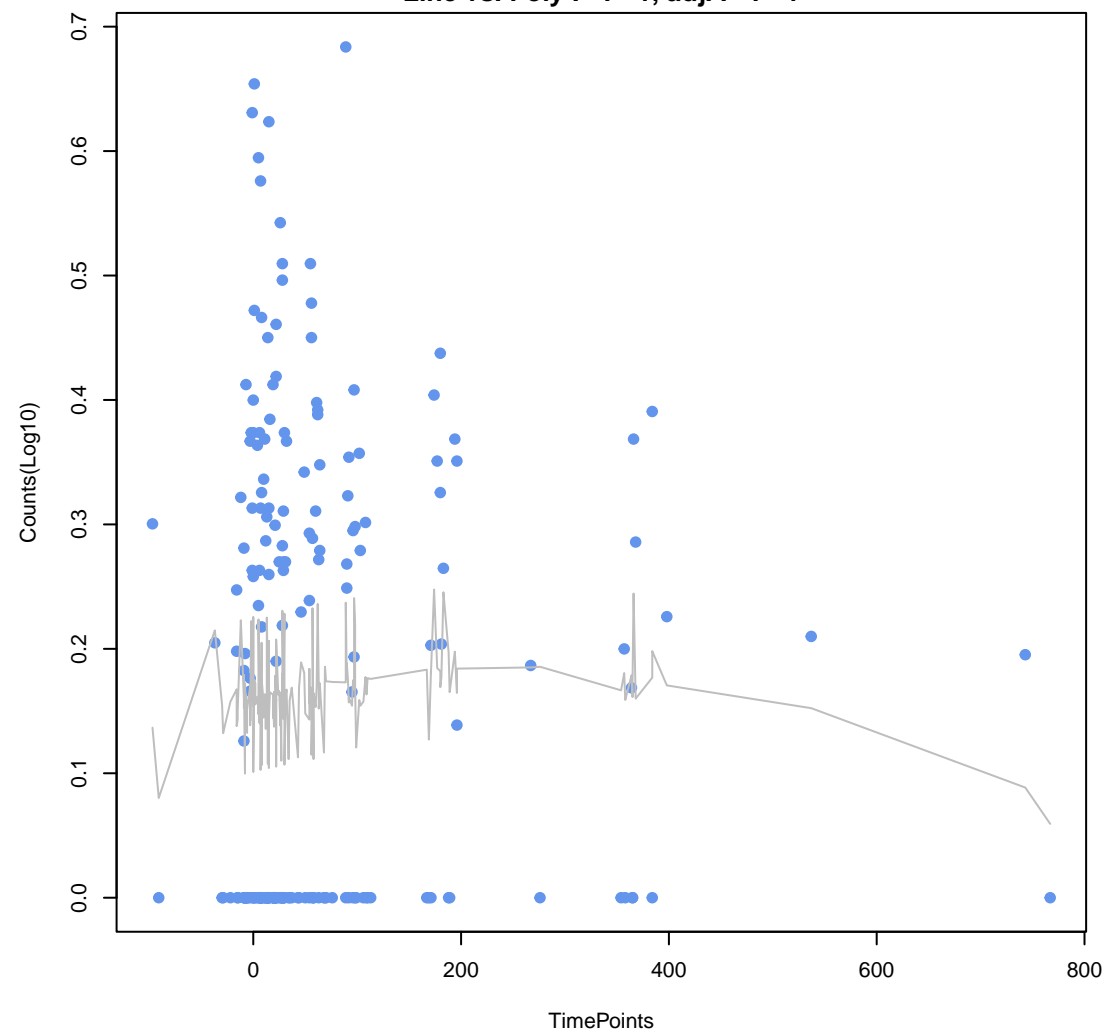
msrC
ANOVA P=0.462, adj. ANOVA-P=0.803
Line vs. Poly F-P=0.927, adj. F-P=1



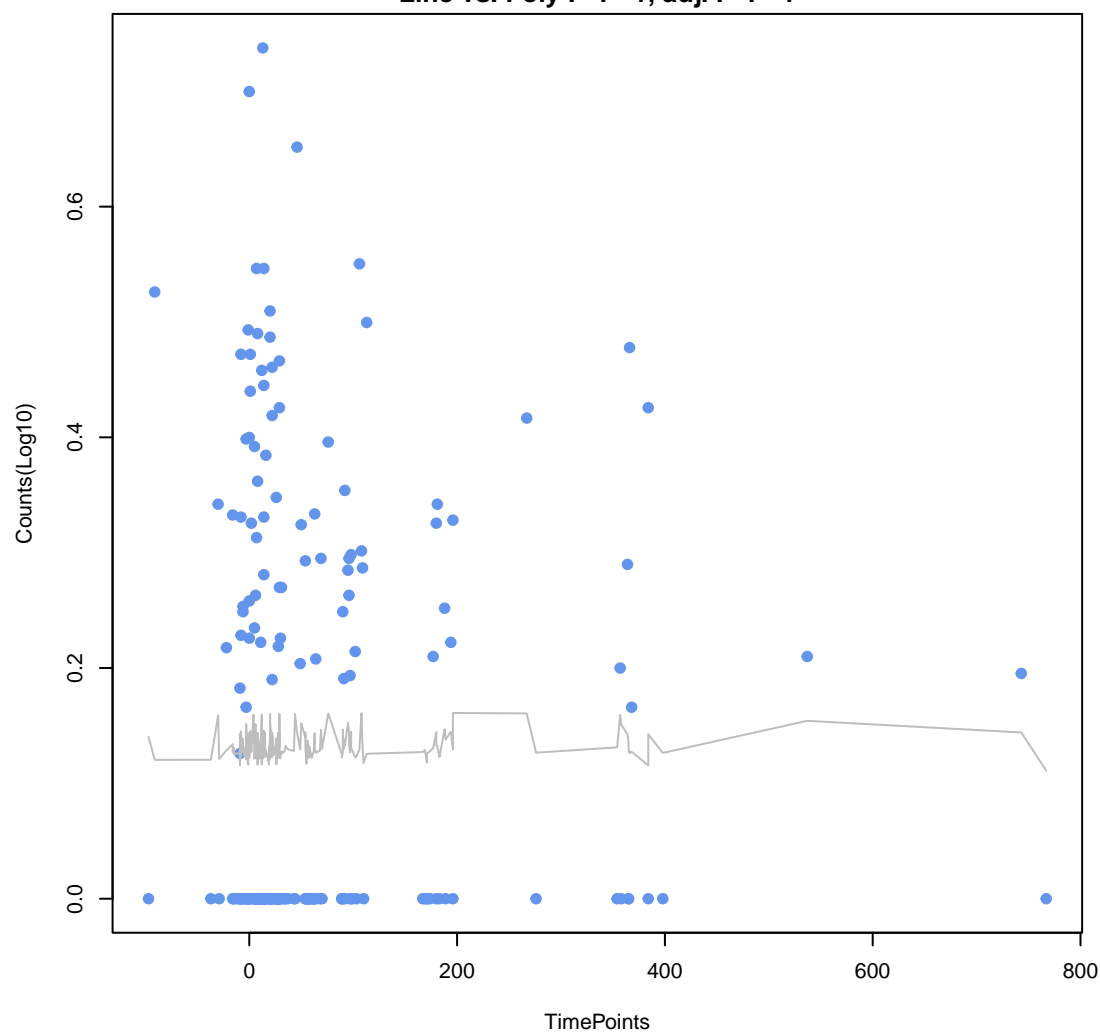
InuC
ANOVA P=0.901, adj. ANOVA-P=0.99
Line vs. Poly F-P=1, adj. F-P=1



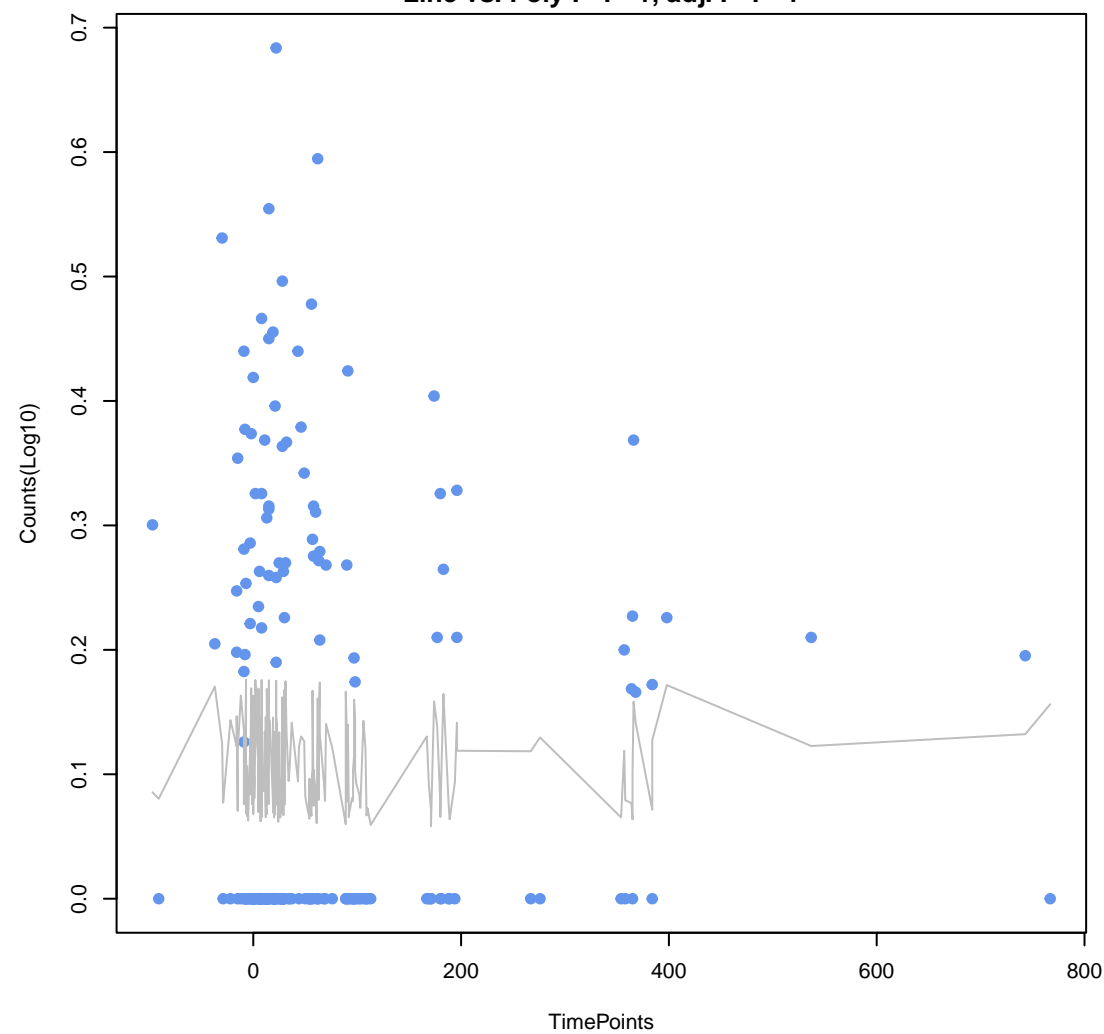
emrA
ANOVA P=0.652, adj. ANOVA-P=0.84
Line vs. Poly F-P=1, adj. F-P=1



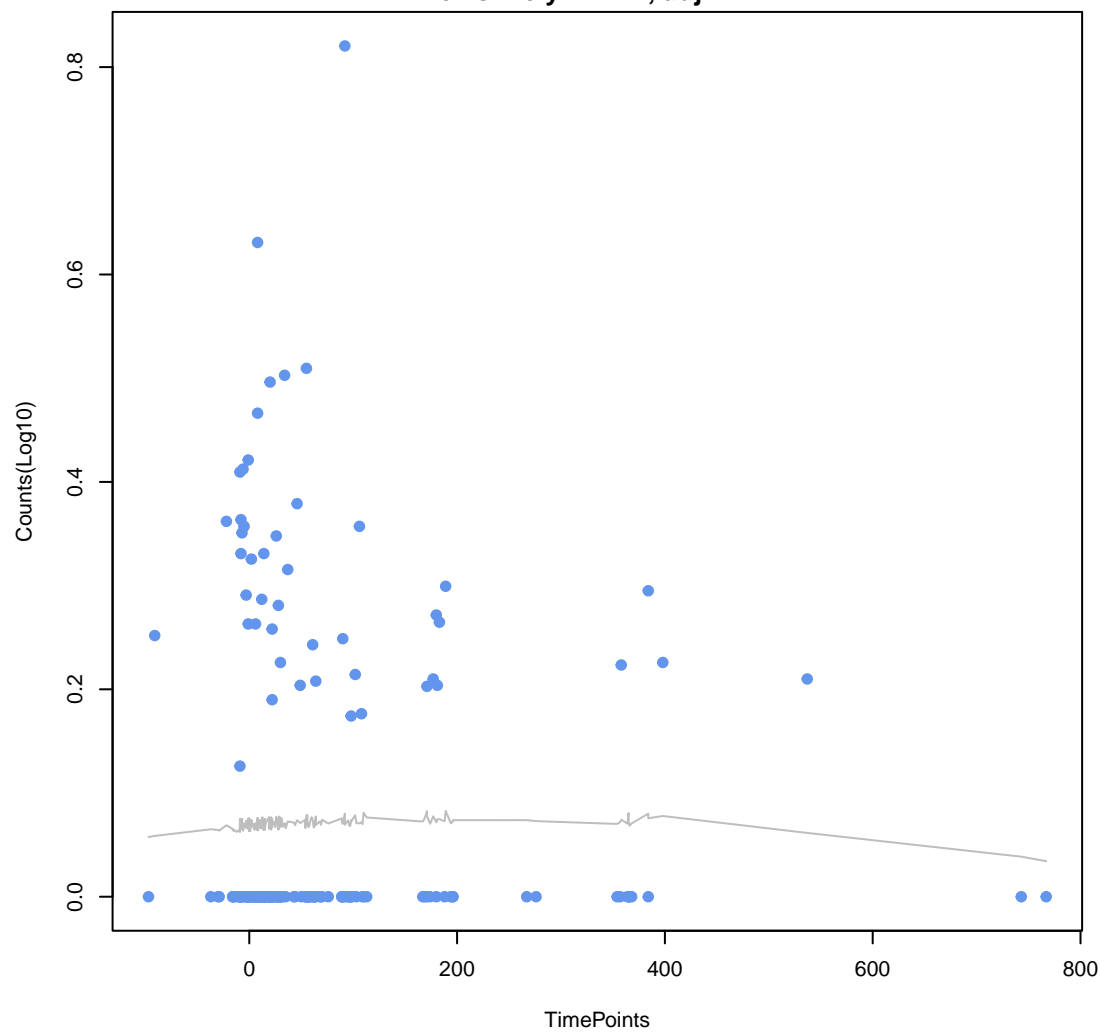
MuxC
ANOVA P=0.99, adj. ANOVA-P=0.99
Line vs. Poly F-P=1, adj. F-P=1



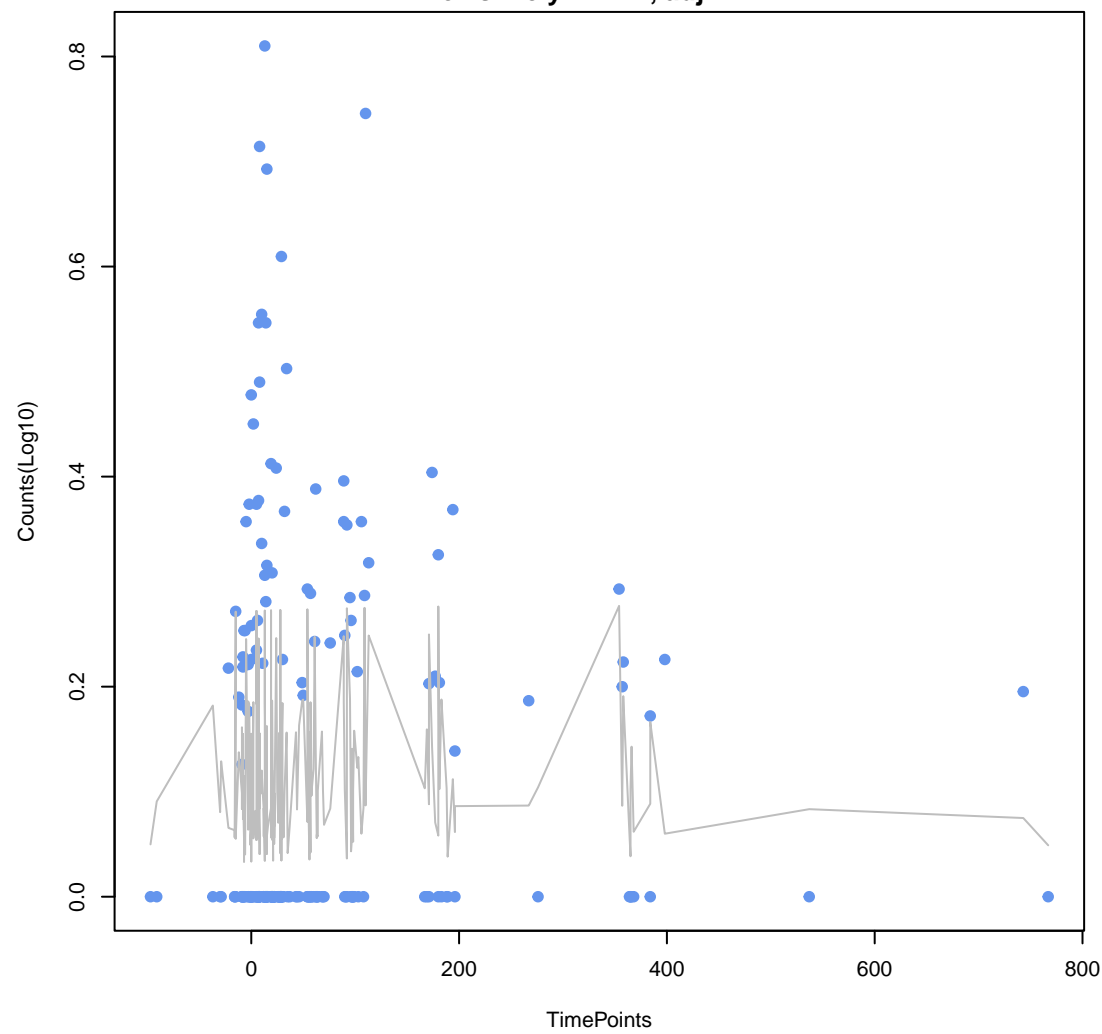
emrK
ANOVA P=0.984, adj. ANOVA-P=0.99
Line vs. Poly F-P=1, adj. F-P=1



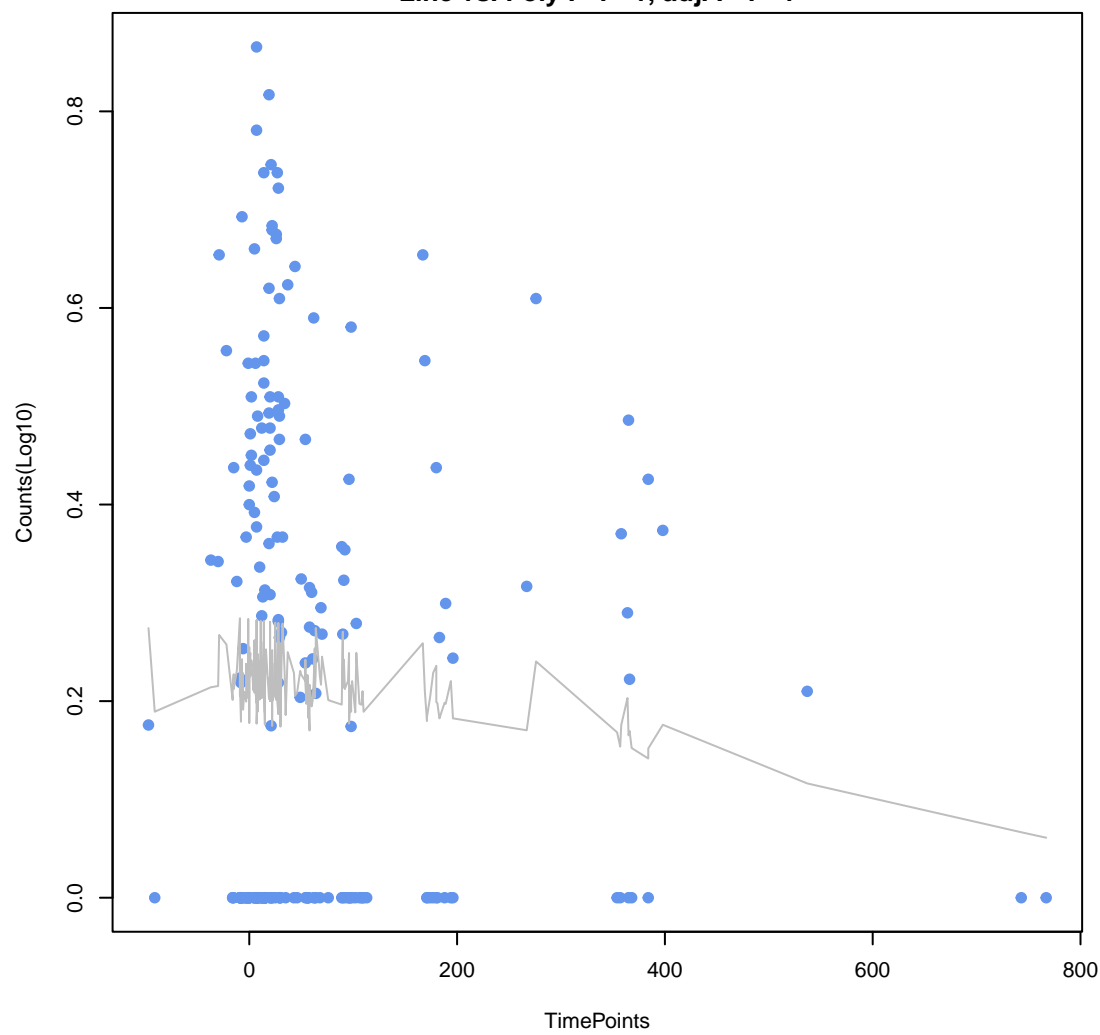
Klebsiella pneumoniae acrA
ANOVA P=0.922, adj. ANOVA-P=0.99
Line vs. Poly F-P=1, adj. F-P=1



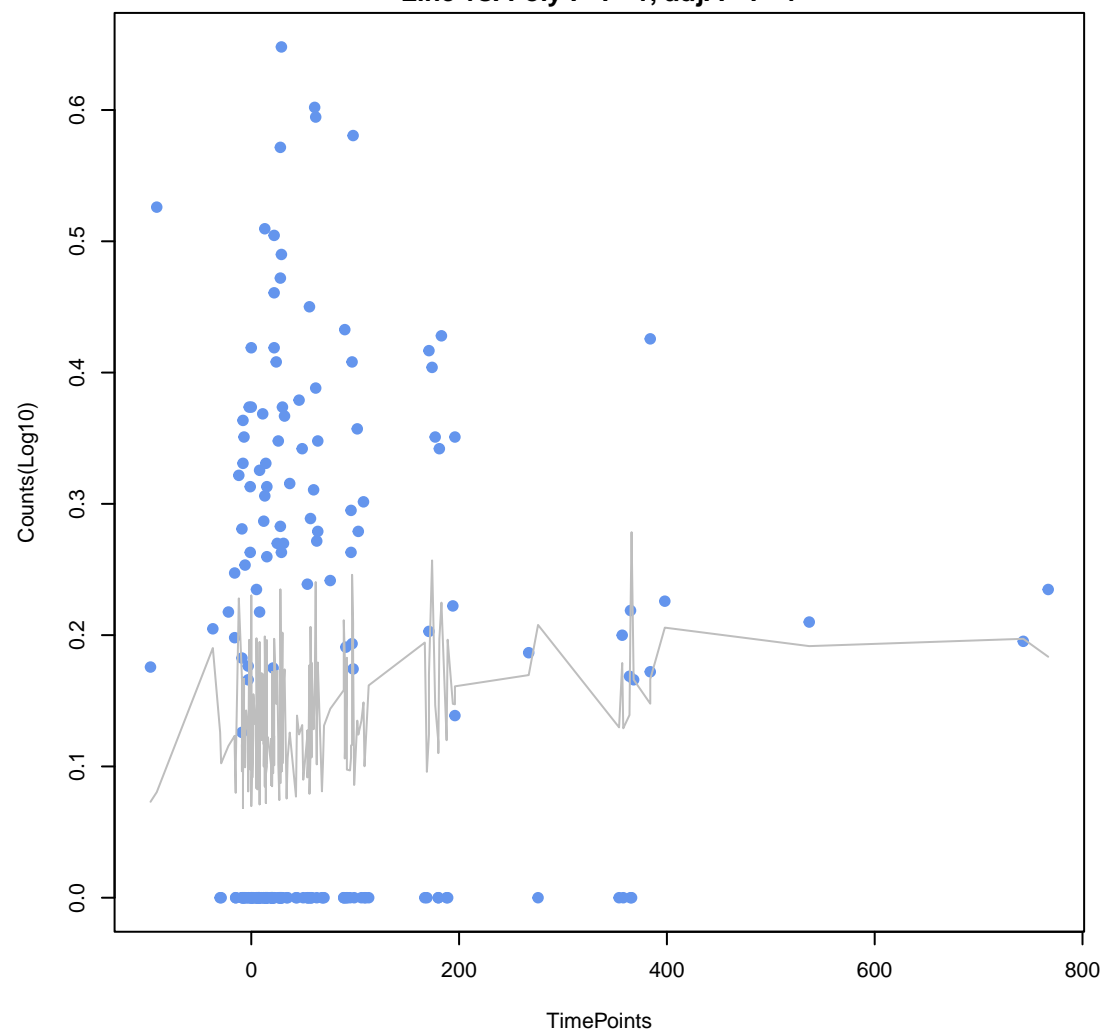
CfxA3
ANOVA P=0.986, adj. ANOVA-P=0.99
Line vs. Poly F-P=1, adj. F-P=1



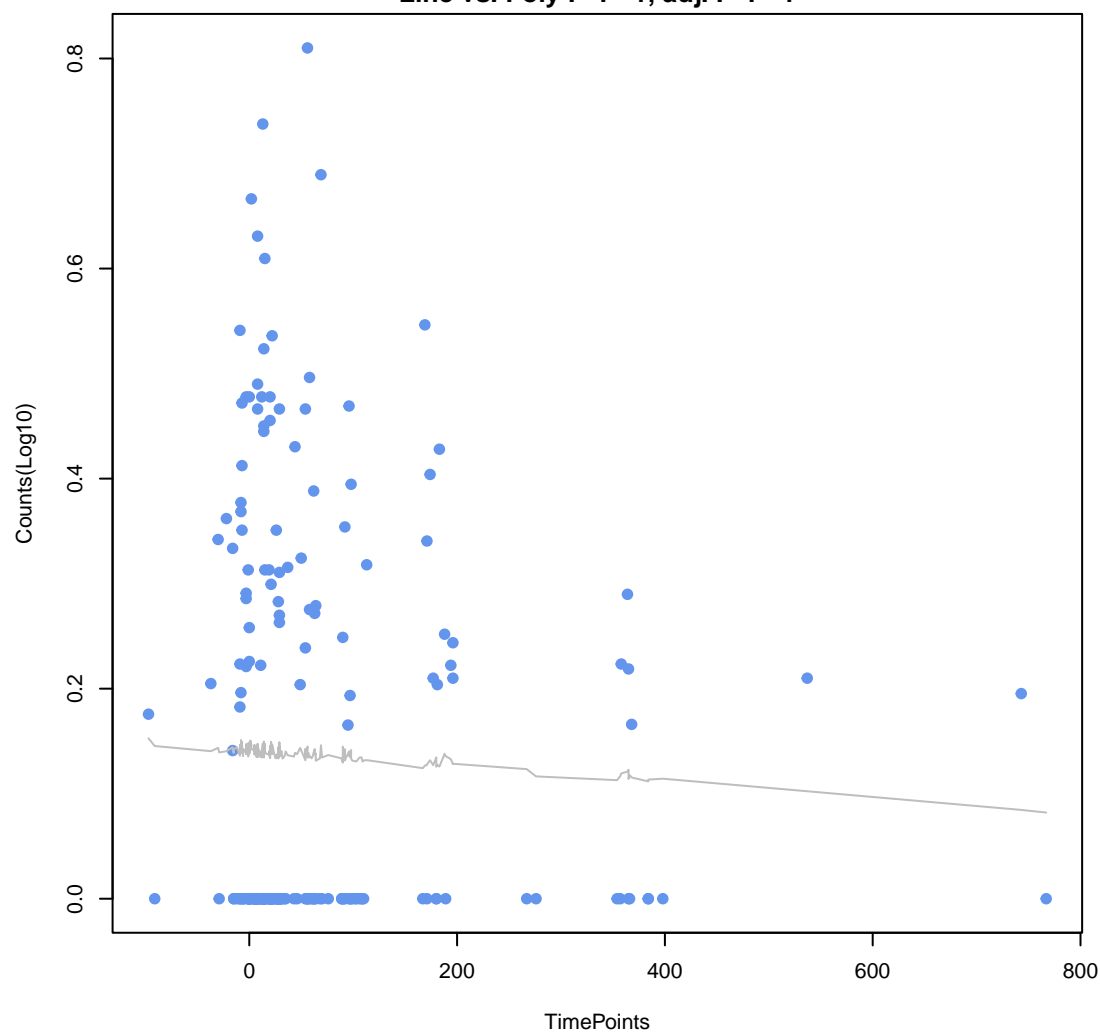
vanS gene in vanA cluster
ANOVA P=0.472, adj. ANOVA-P=0.803
Line vs. Poly F-P=1, adj. F-P=1



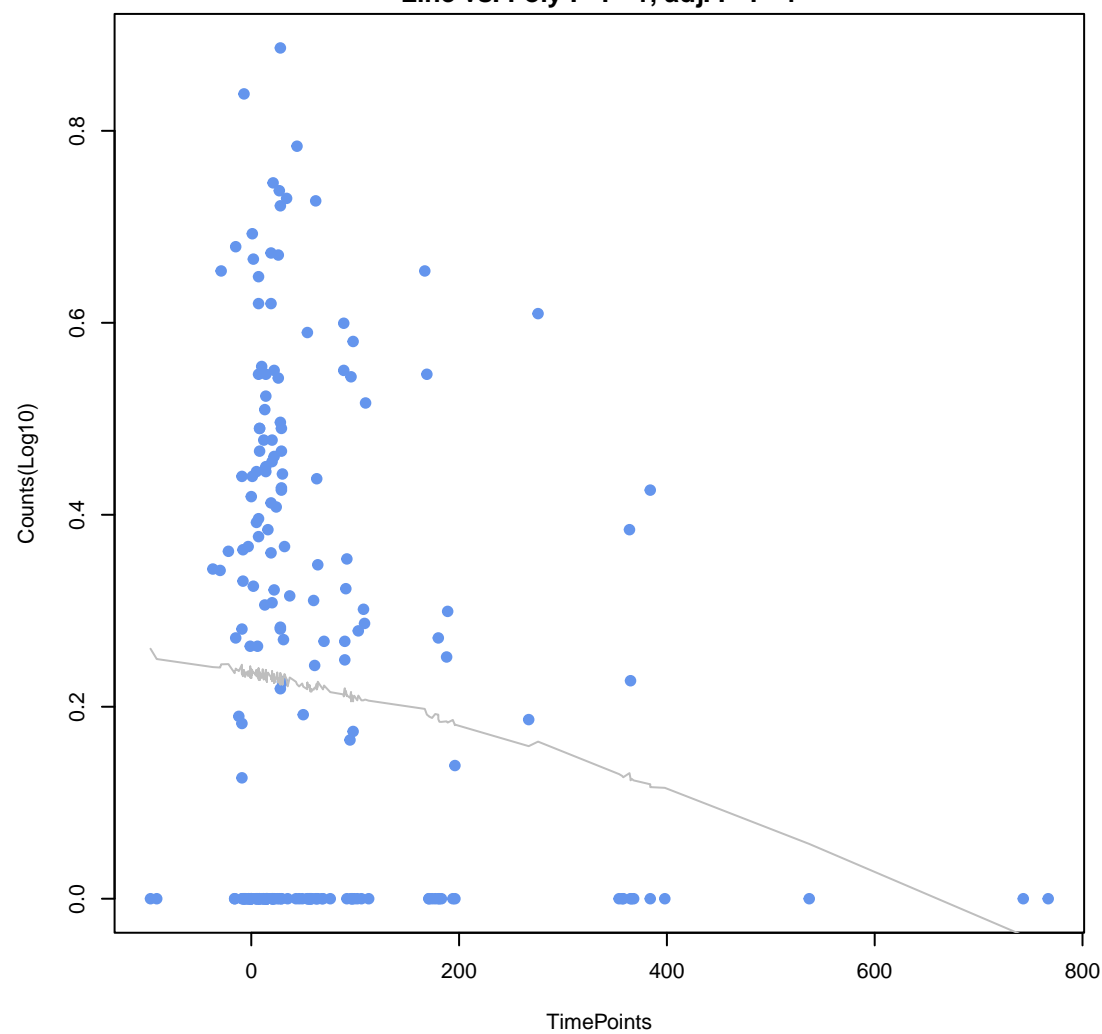
emrR
ANOVA P=0.474, adj. ANOVA-P=0.803
Line vs. Poly F-P=1, adj. F-P=1



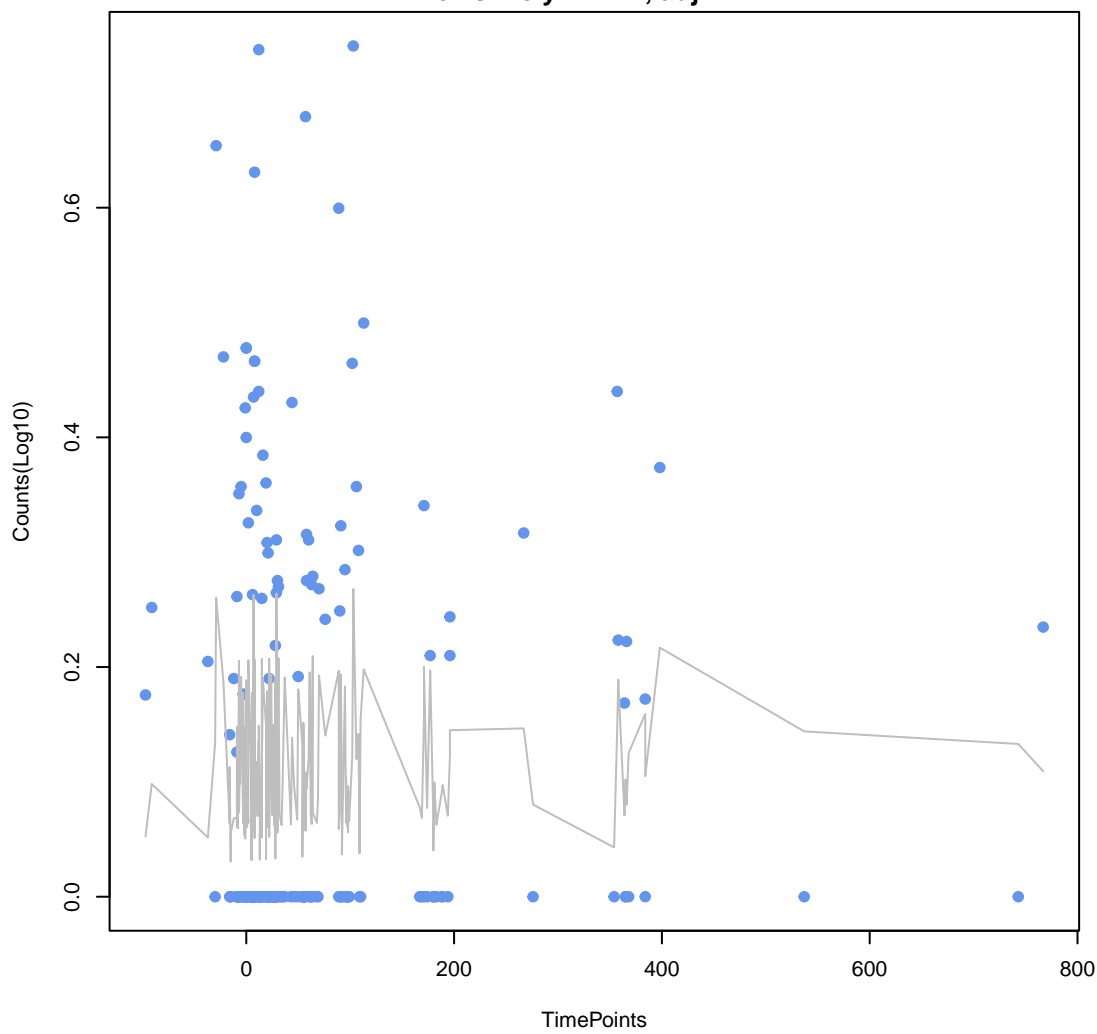
Bifidobacterium bifidum ileS conferring resistance to mupirocin
ANOVA P=0.813, adj. ANOVA-P=0.99
Line vs. Poly F-P=1, adj. F-P=1



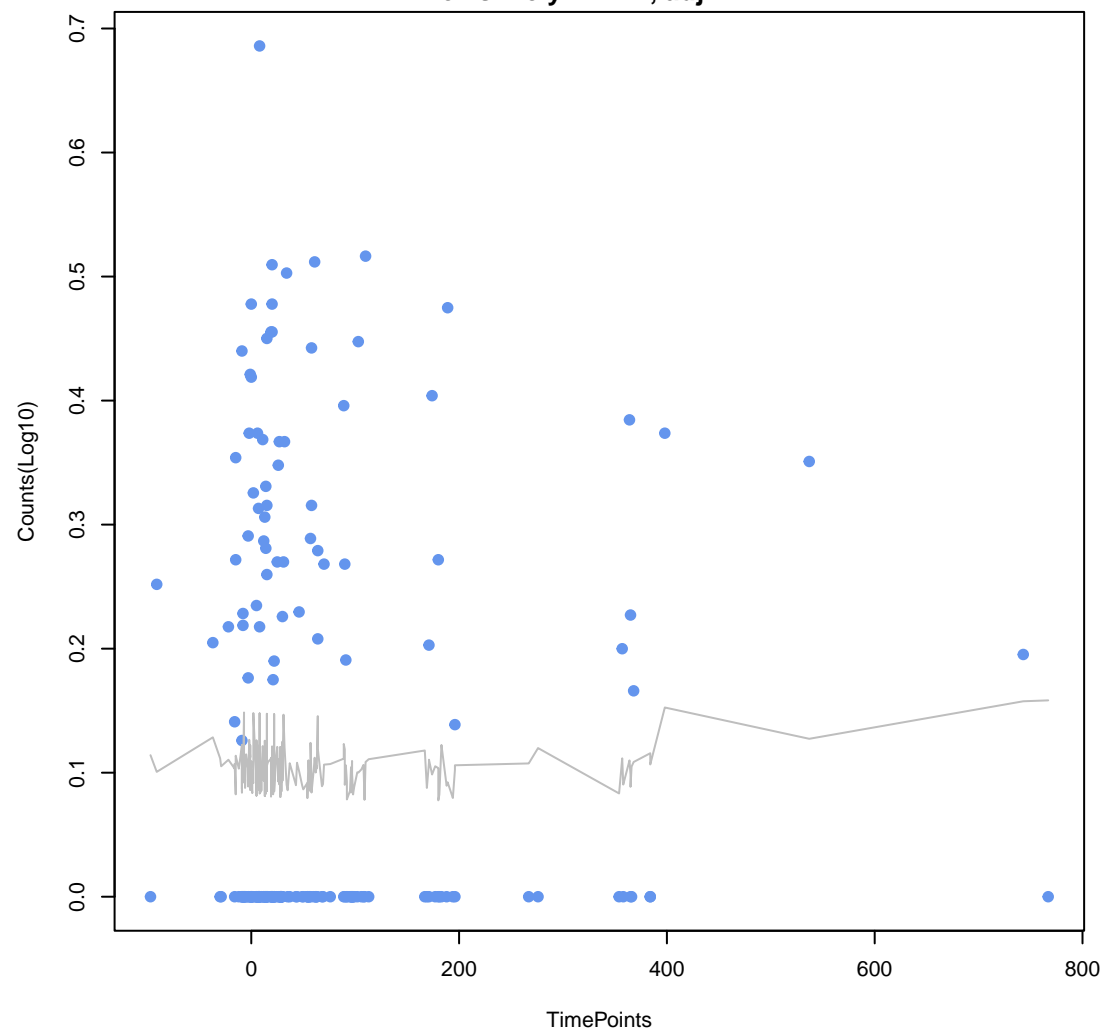
vanH gene in vanA cluster
ANOVA P=0.0768, adj. ANOVA-P=0.432
Line vs. Poly F-P=1, adj. F-P=1



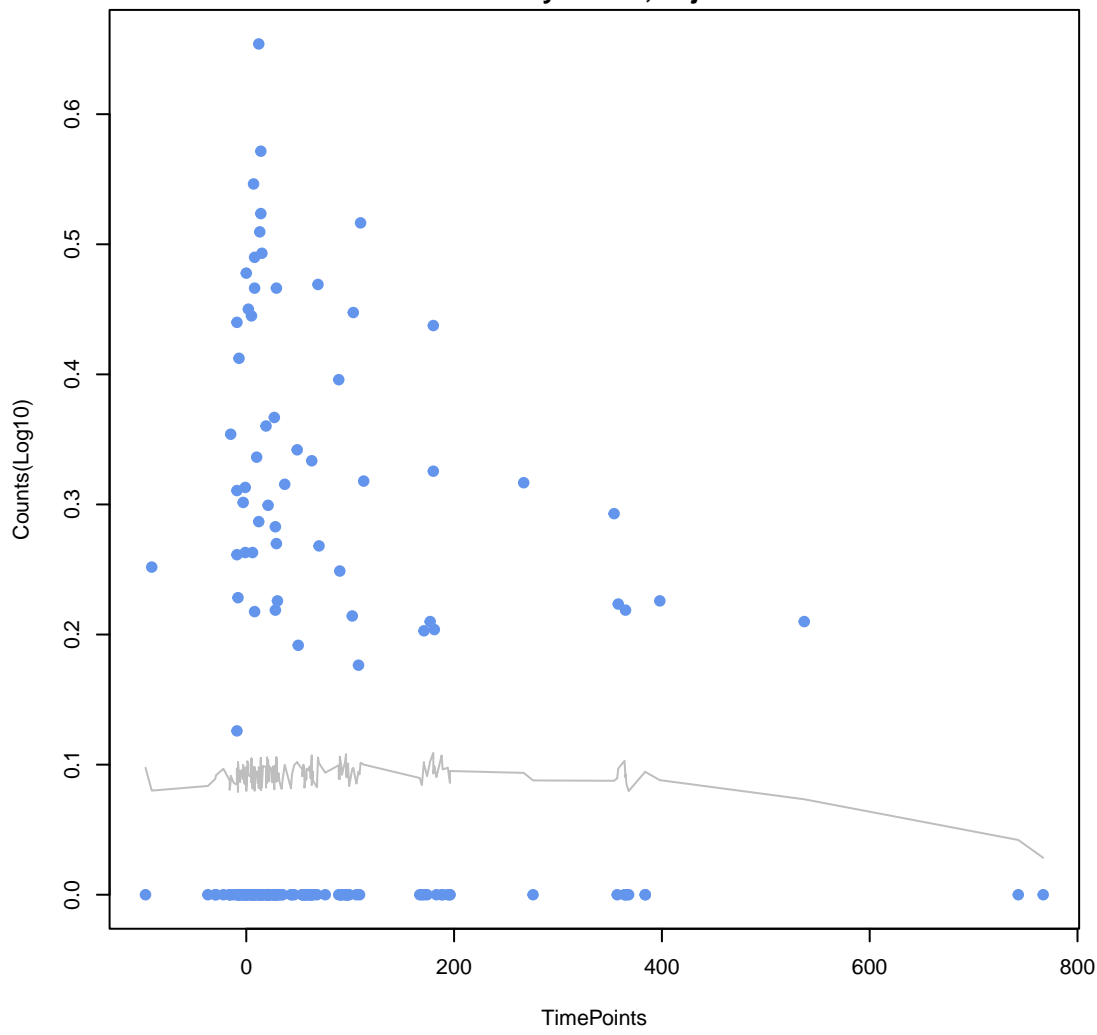
vanX gene in vanD cluster
ANOVA P=0.954, adj. ANOVA-P=0.99
Line vs. Poly F-P=1, adj. F-P=1



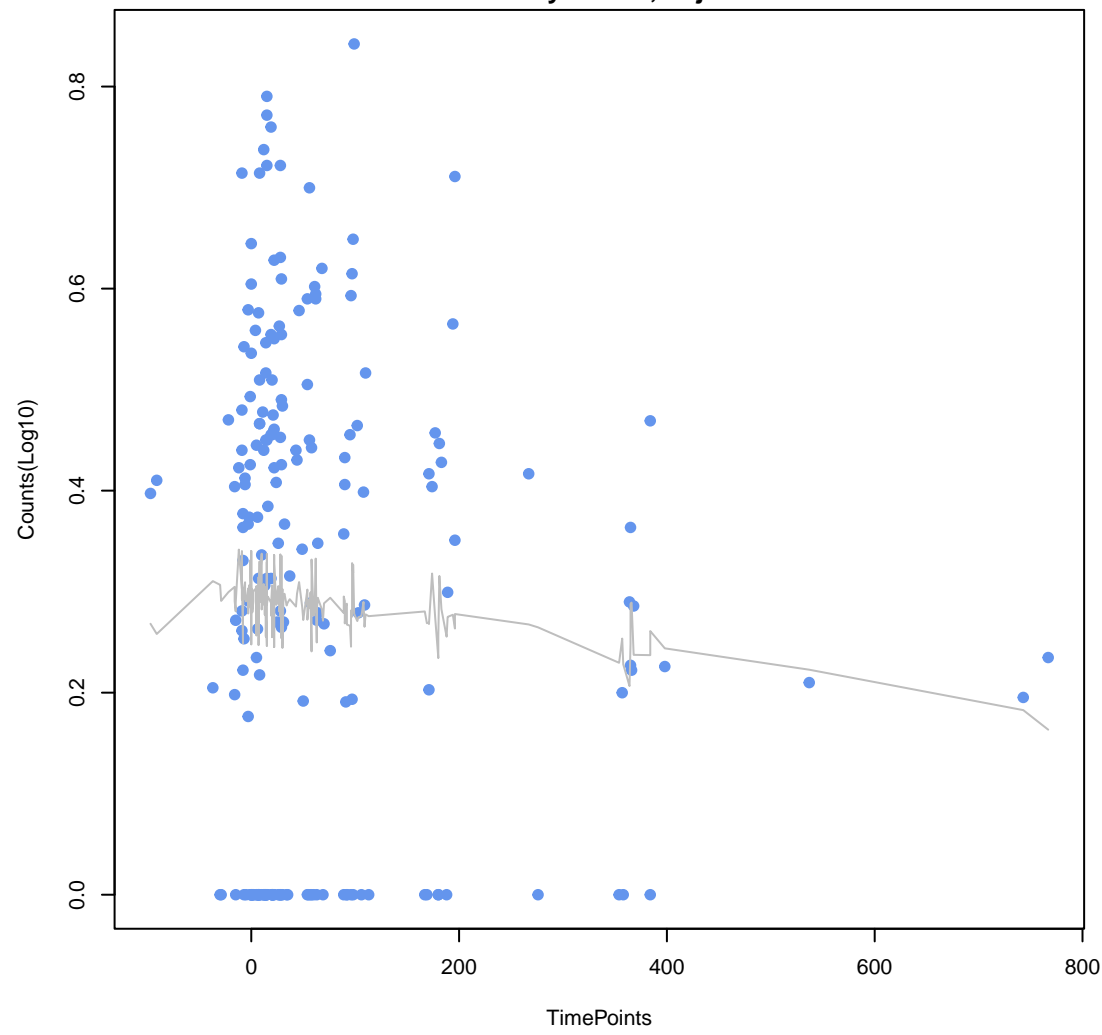
APH(3'')-lb
ANOVA P=0.891, adj. ANOVA-P=0.99
Line vs. Poly F-P=1, adj. F-P=1



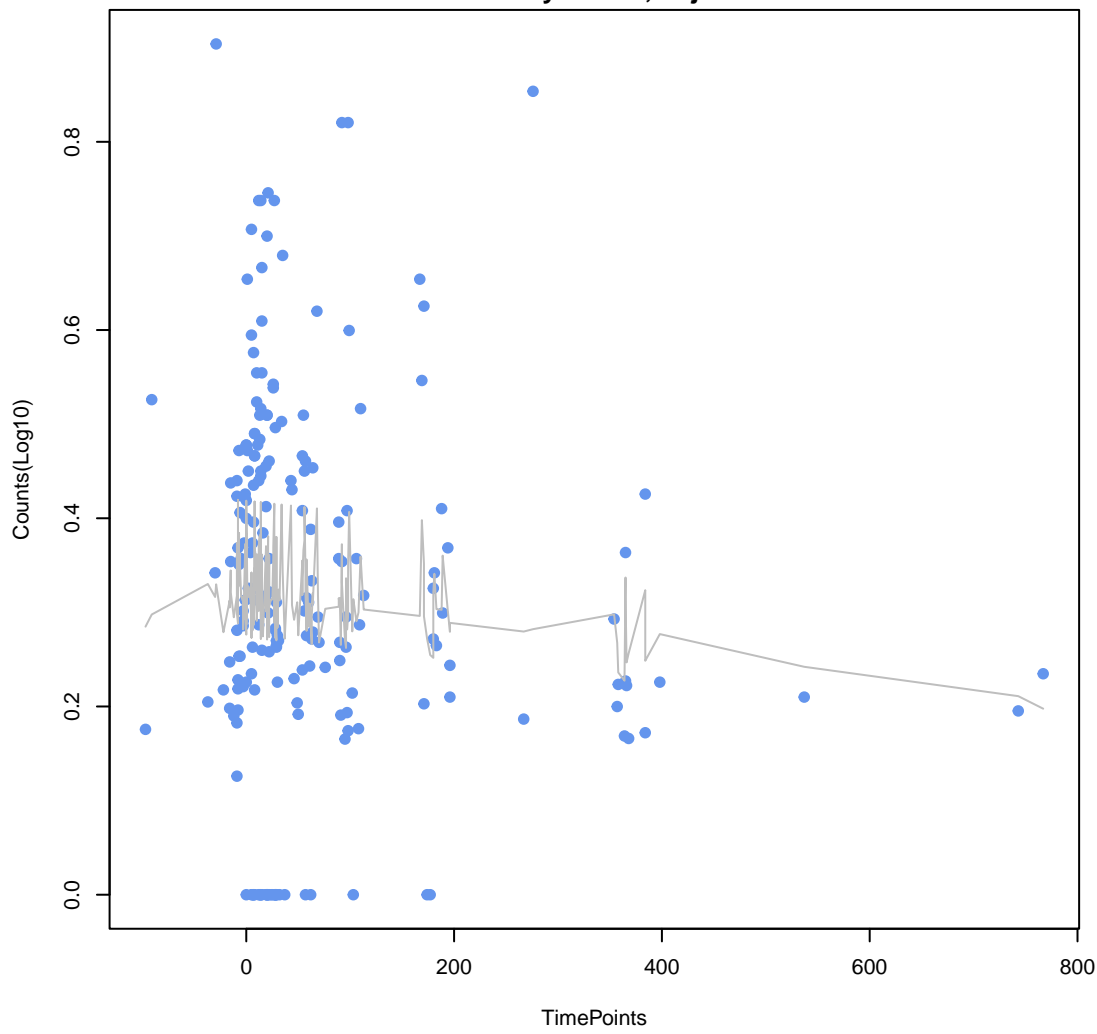
oleB
ANOVA P=0.887, adj. ANOVA-P=0.99
Line vs. Poly F-P=1, adj. F-P=1



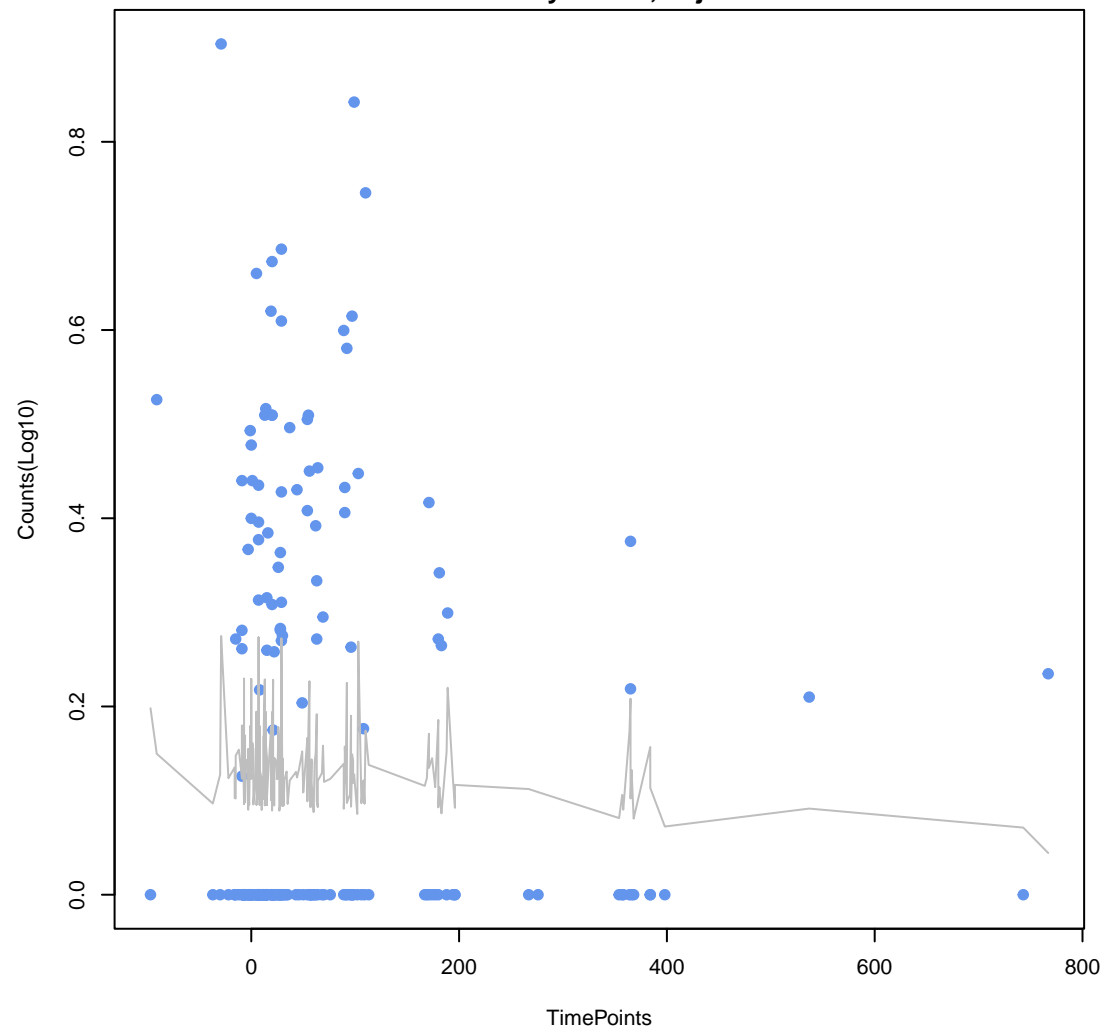
mdtC
ANOVA P=0.564, adj. ANOVA-P=0.822
Line vs. Poly F-P=1, adj. F-P=1



tet(40)
ANOVA P=0.518, adj. ANOVA-P=0.803
Line vs. Poly F-P=1, adj. F-P=1

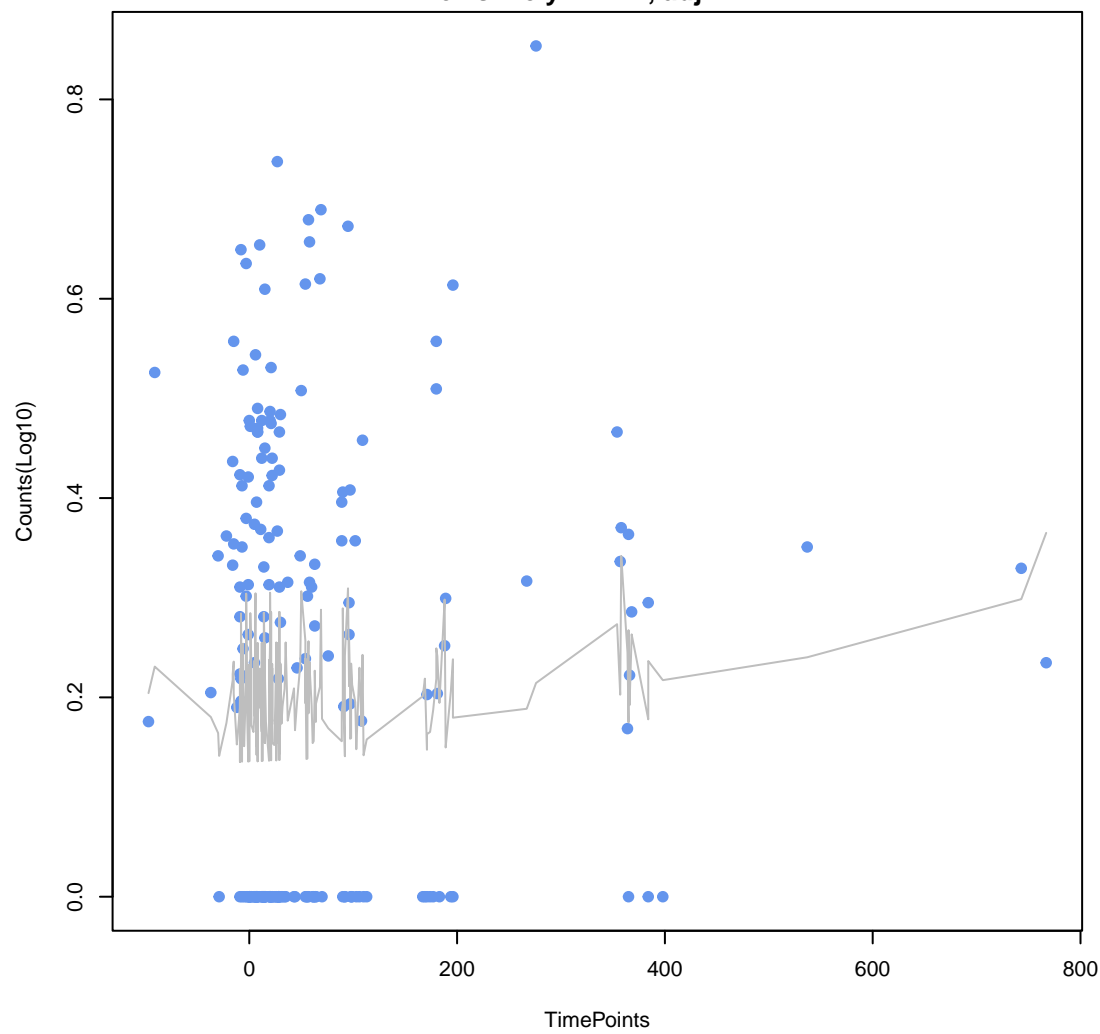


tetB(60)
ANOVA P=0.872, adj. ANOVA-P=0.99
Line vs. Poly F-P=1, adj. F-P=1

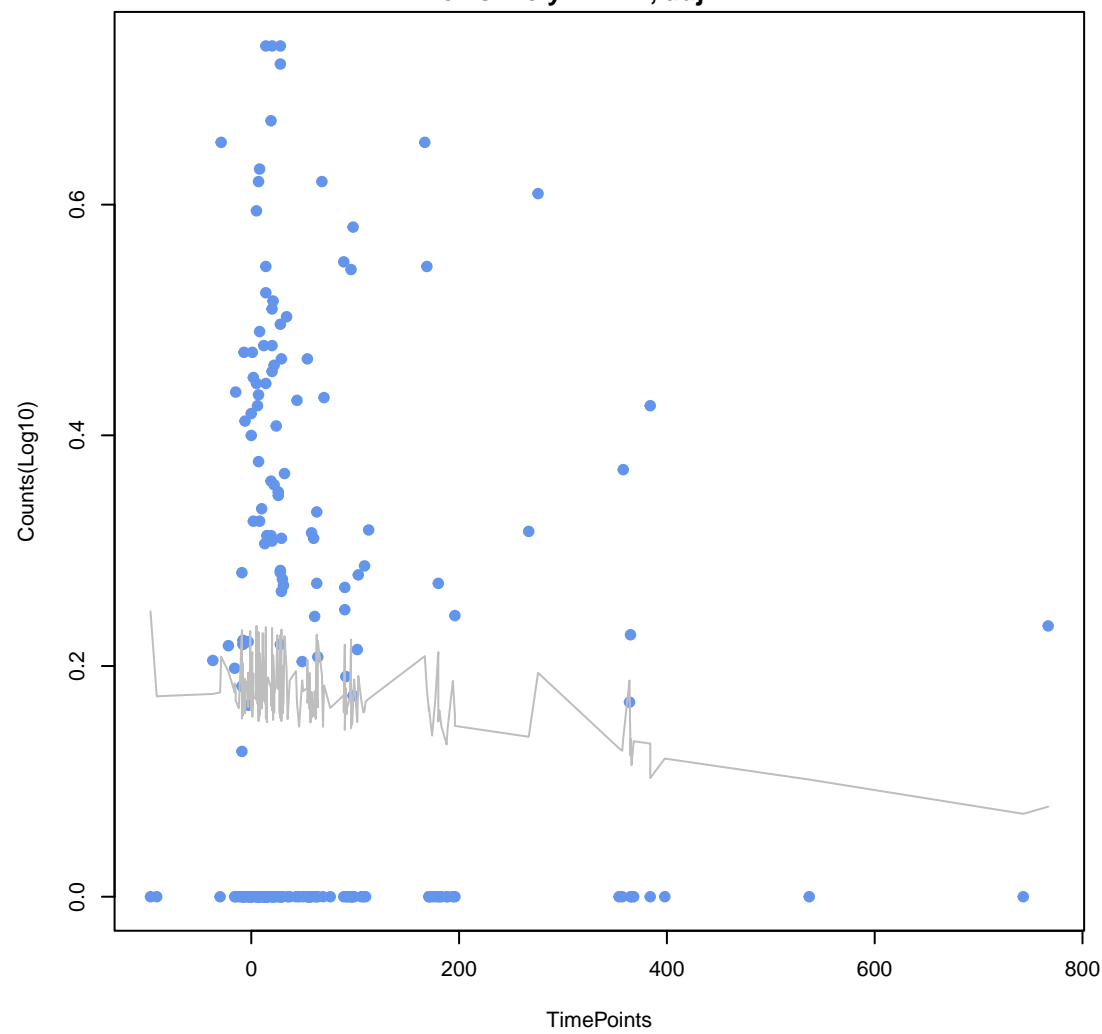


chrB

ANOVA P=0.546, adj. ANOVA-P=0.812
Line vs. Poly F-P=1, adj. F-P=1

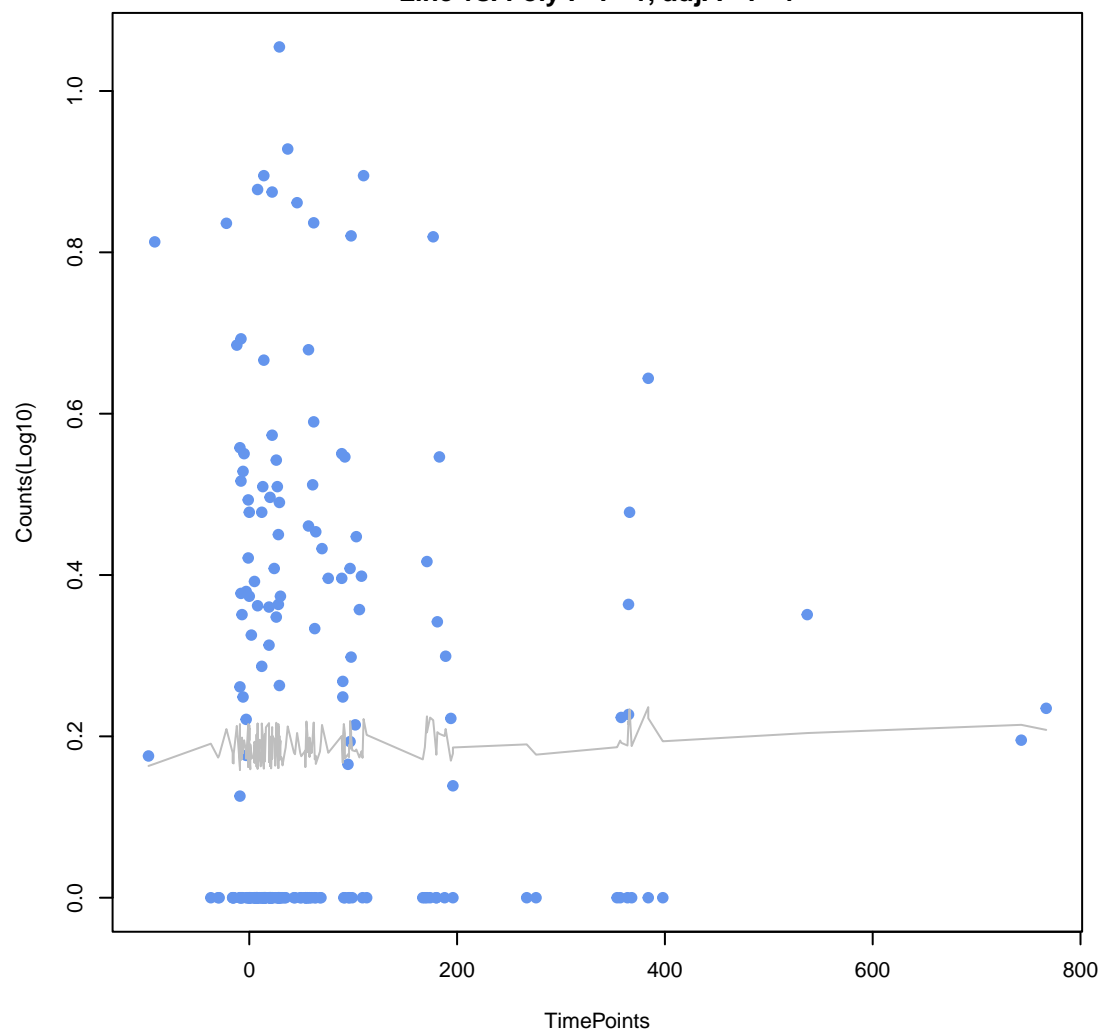


vanX gene in vanA cluster
ANOVA P=0.576, adj. ANOVA-P=0.822
Line vs. Poly F-P=1, adj. F-P=1



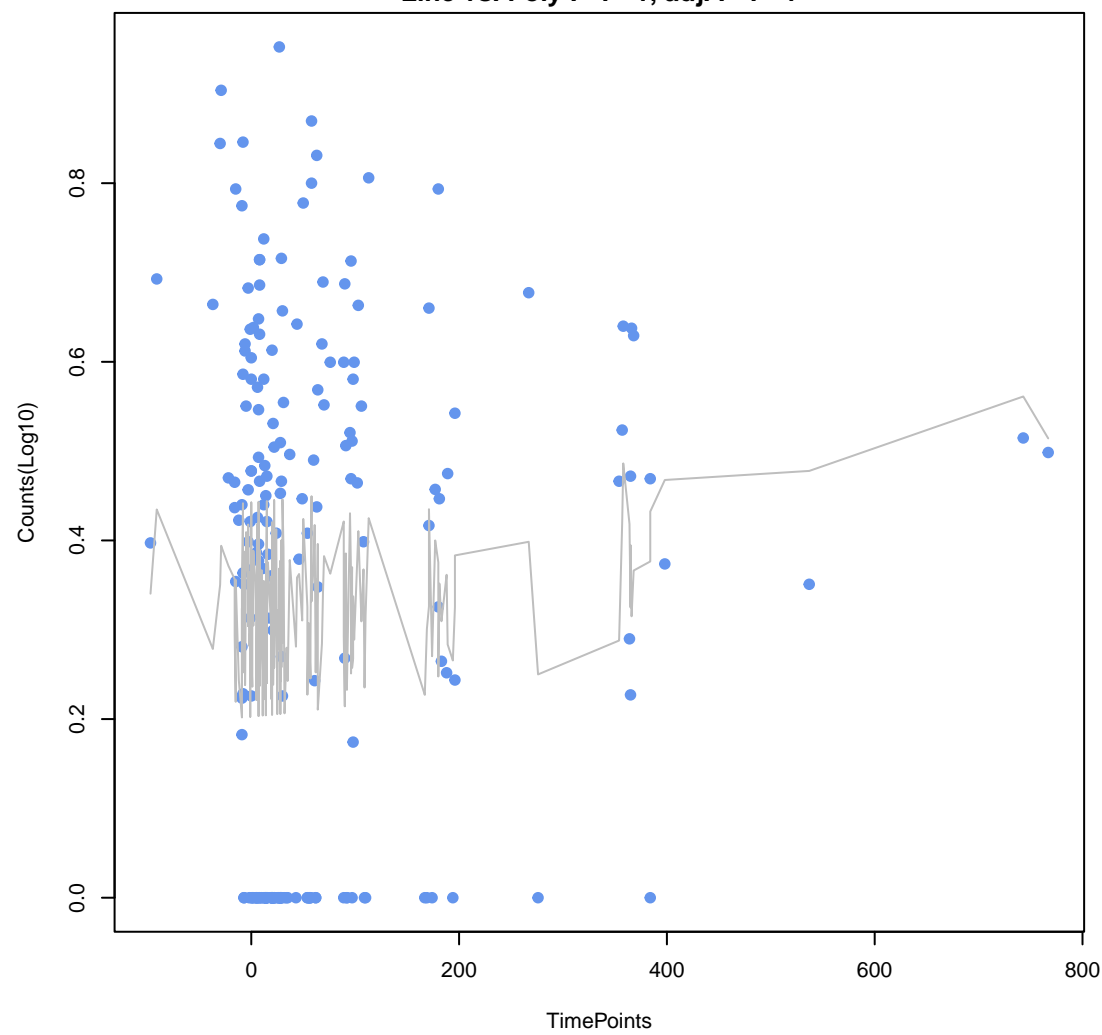
oqxB

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

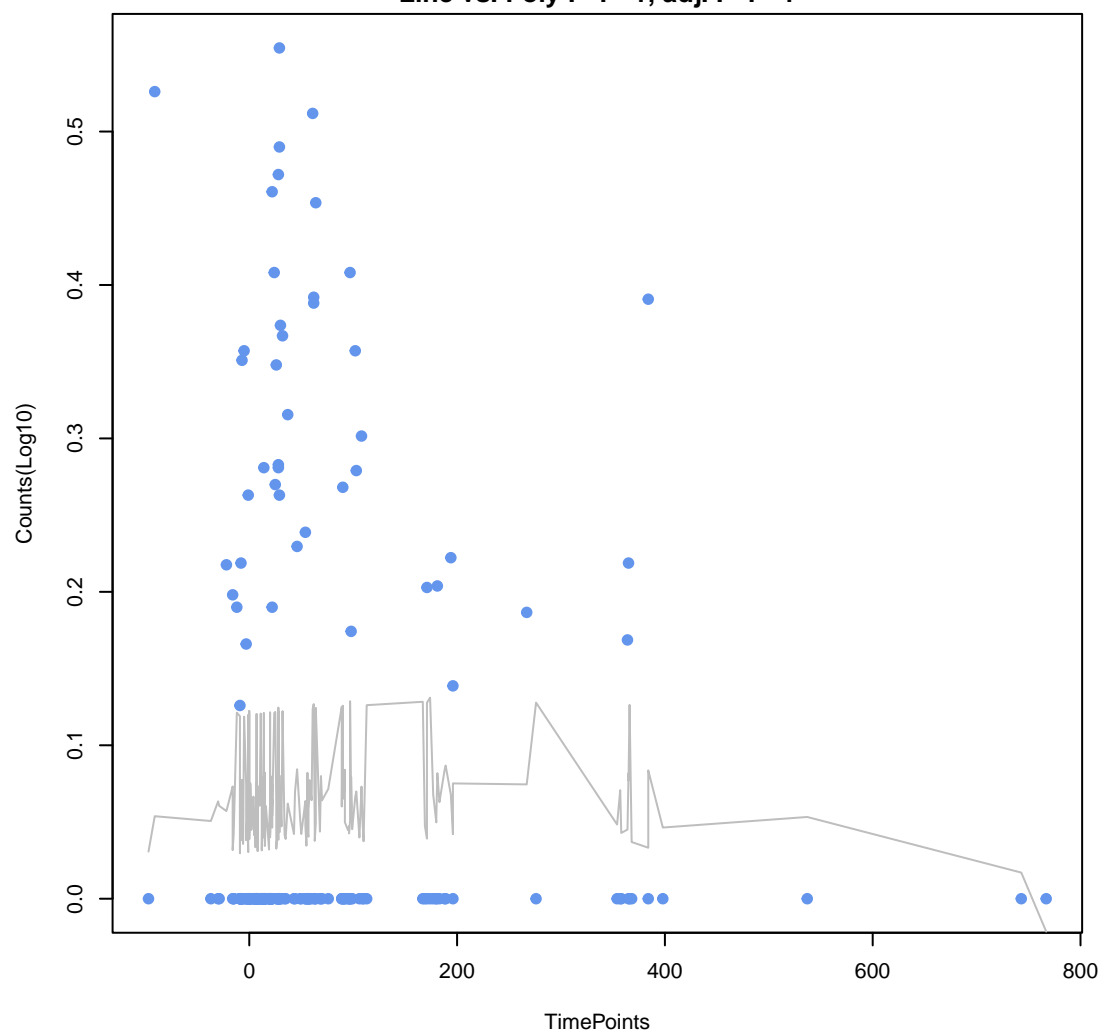


vanI

ANOVA P=0.357, adj. ANOVA-P=0.796
Line vs. Poly F-P=1, adj. F-P=1

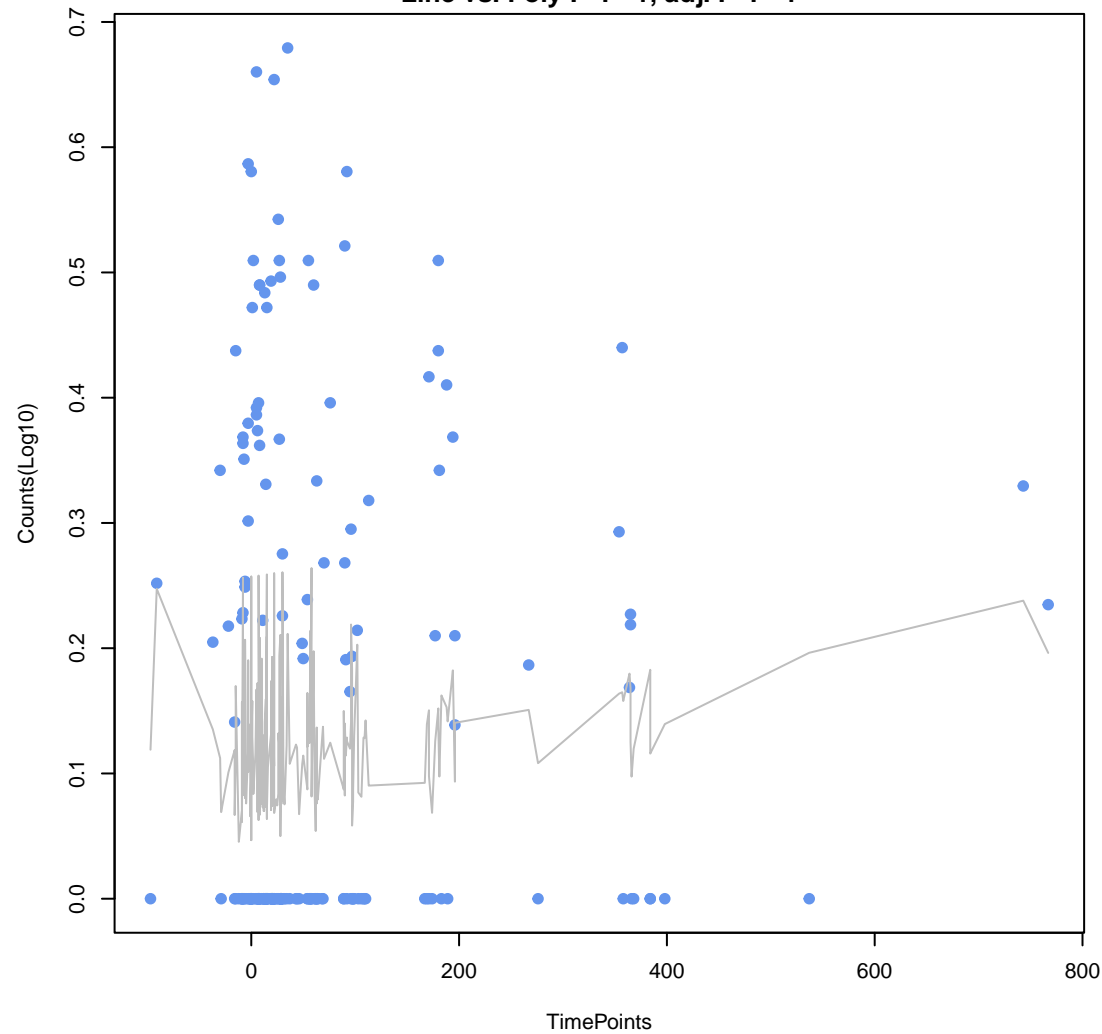


Escherichia coli Uhpt with mutation conferring resistance to fosfomycin
ANOVA P=0.792, adj. ANOVA-P=0.986
Line vs. Poly F-P=1, adj. F-P=1



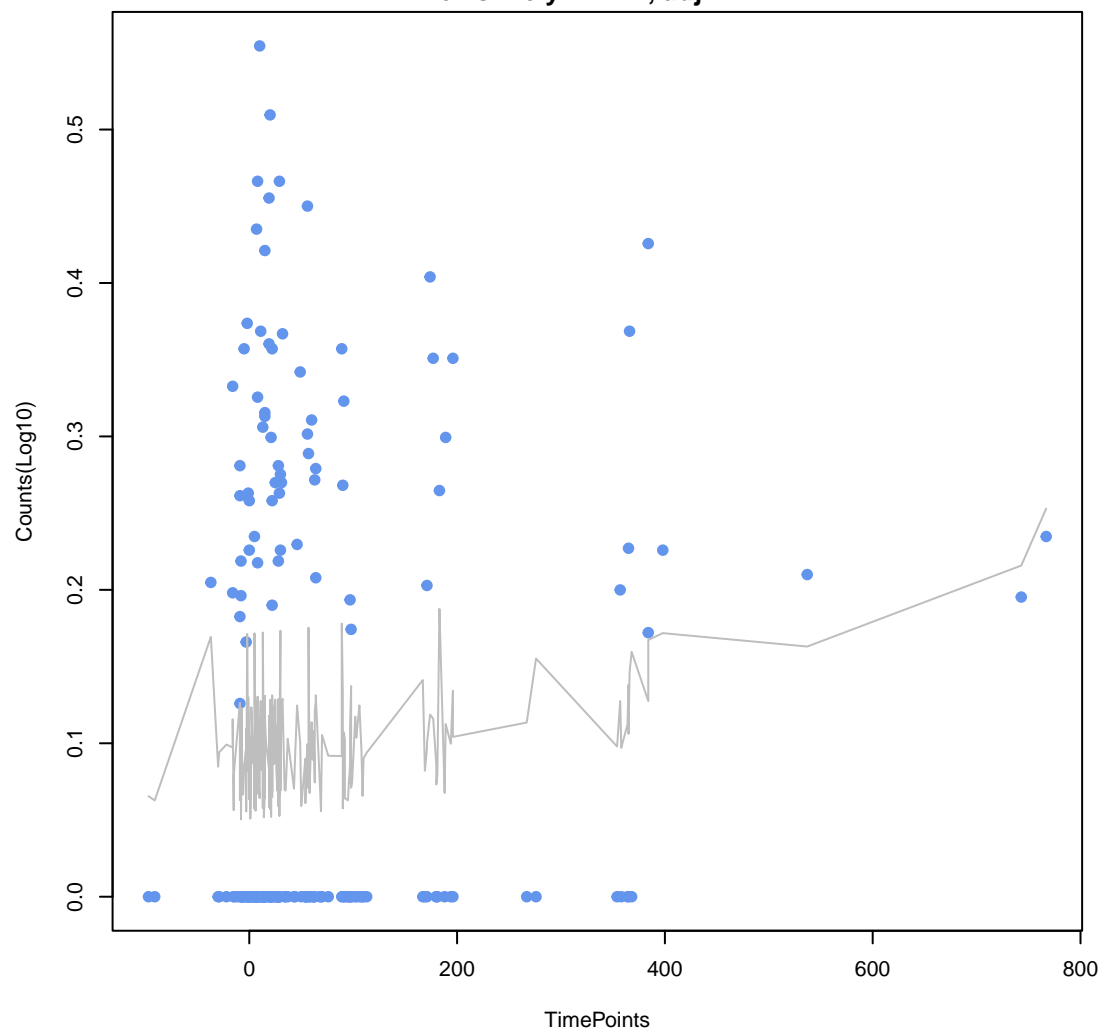
tet(W/32/O)

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



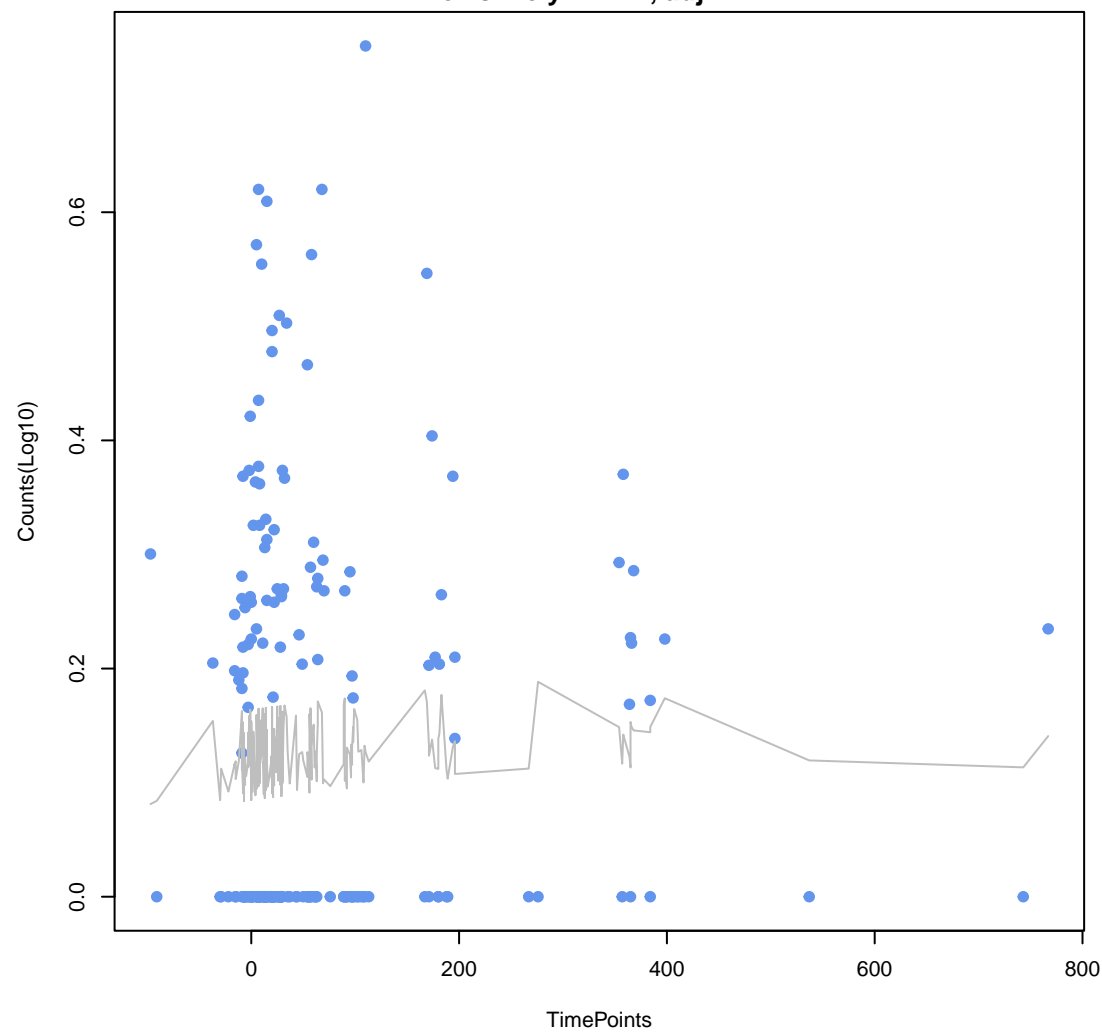
gadX

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

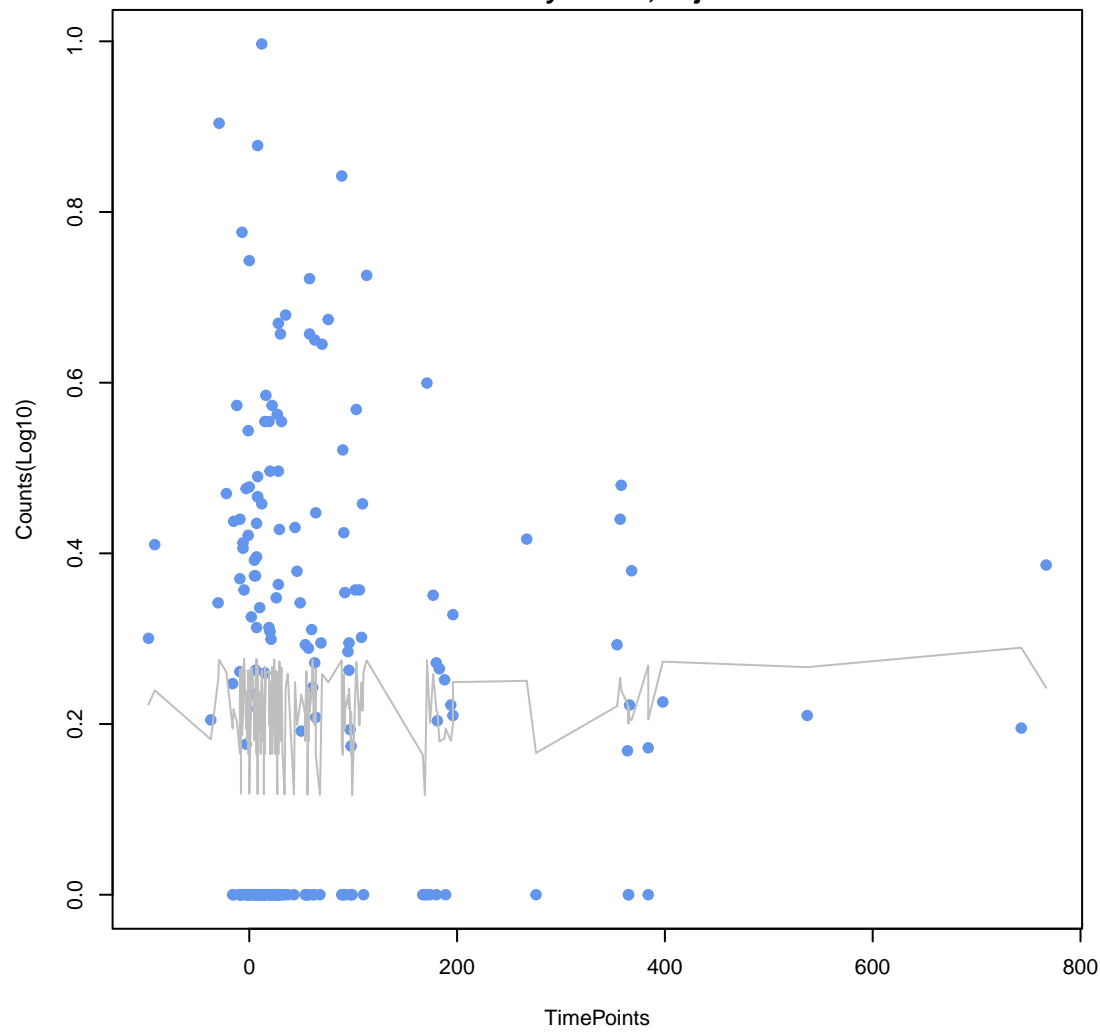


AcrE

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

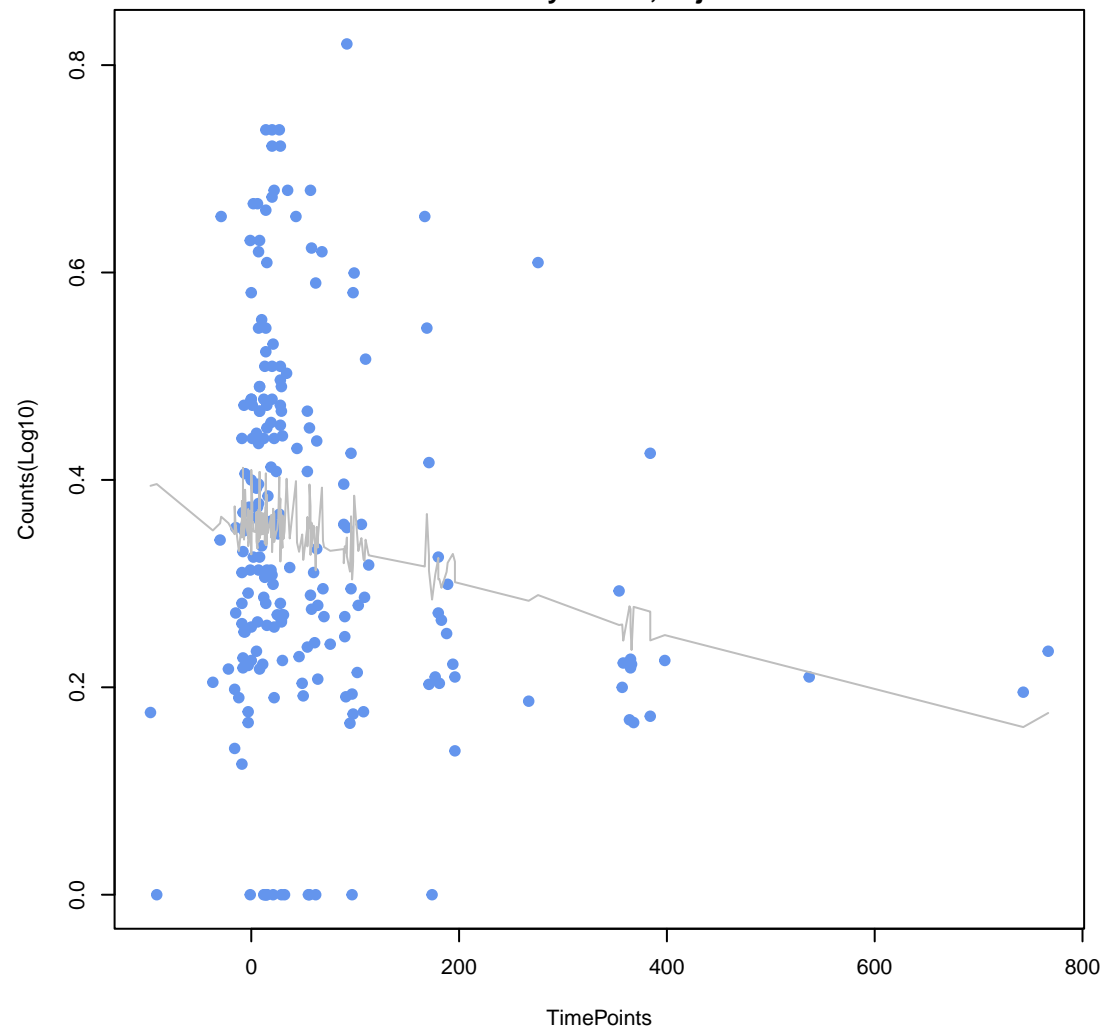


vanR gene in vanD cluster
ANOVA P=0.966, adj. ANOVA-P=0.99
Line vs. Poly F-P=1, adj. F-P=1



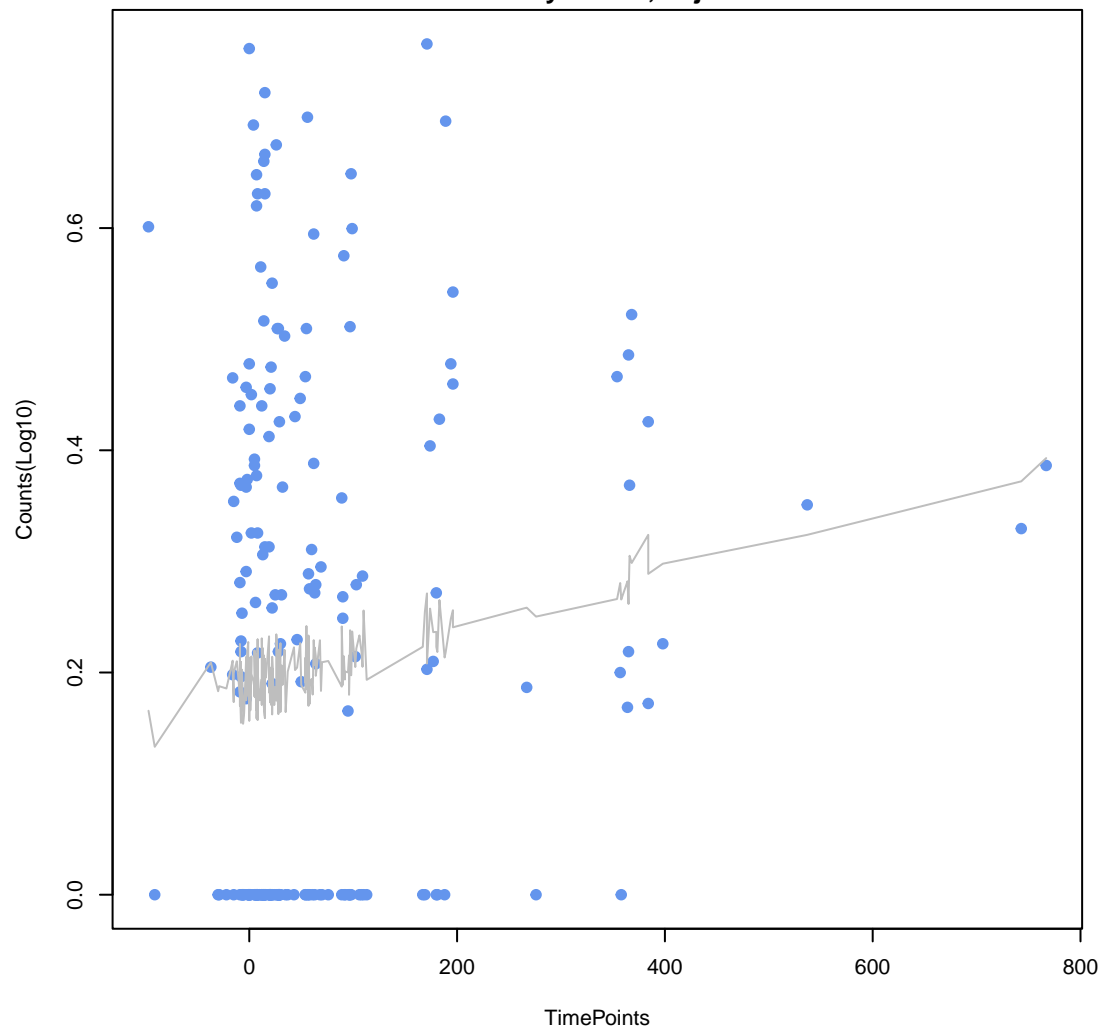
ErmB

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



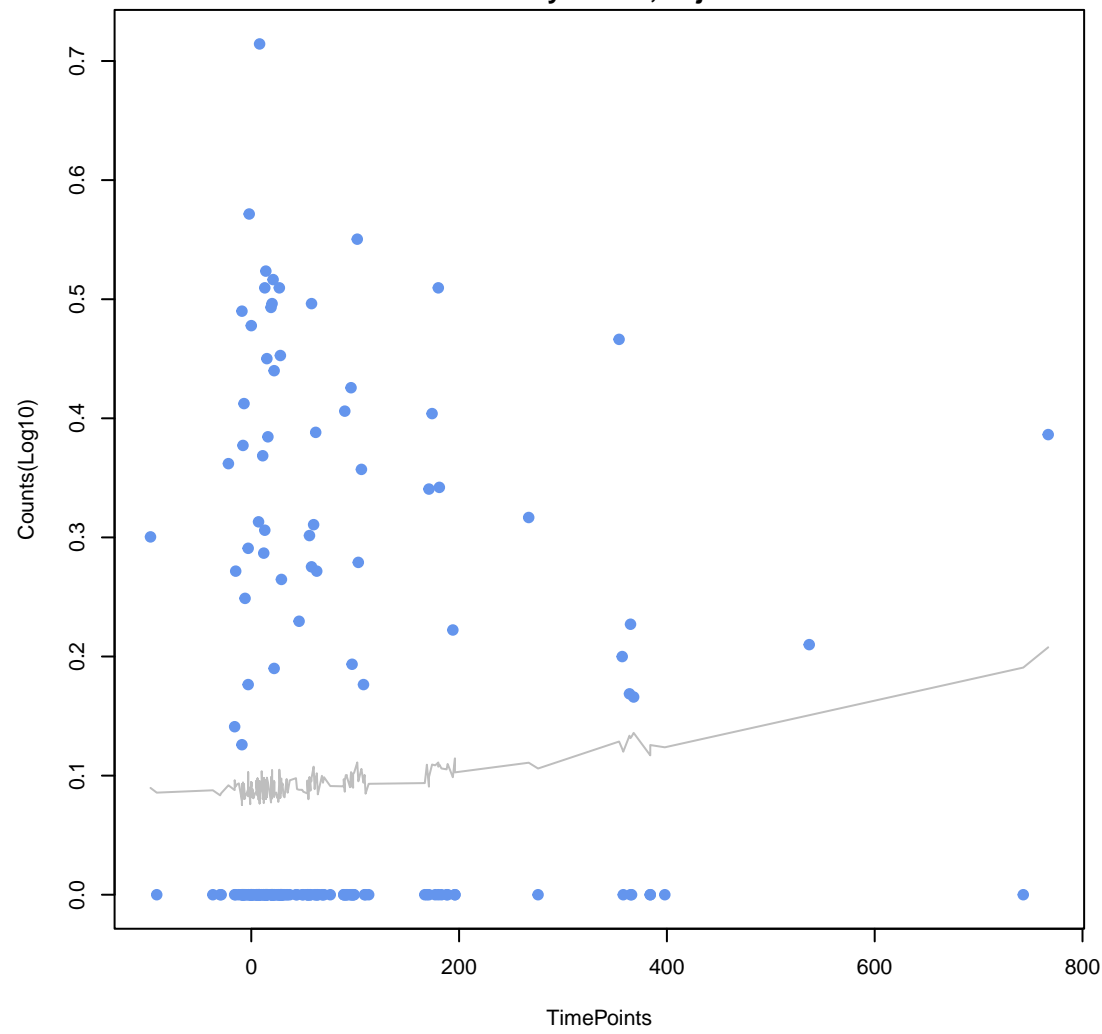
mdtF

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

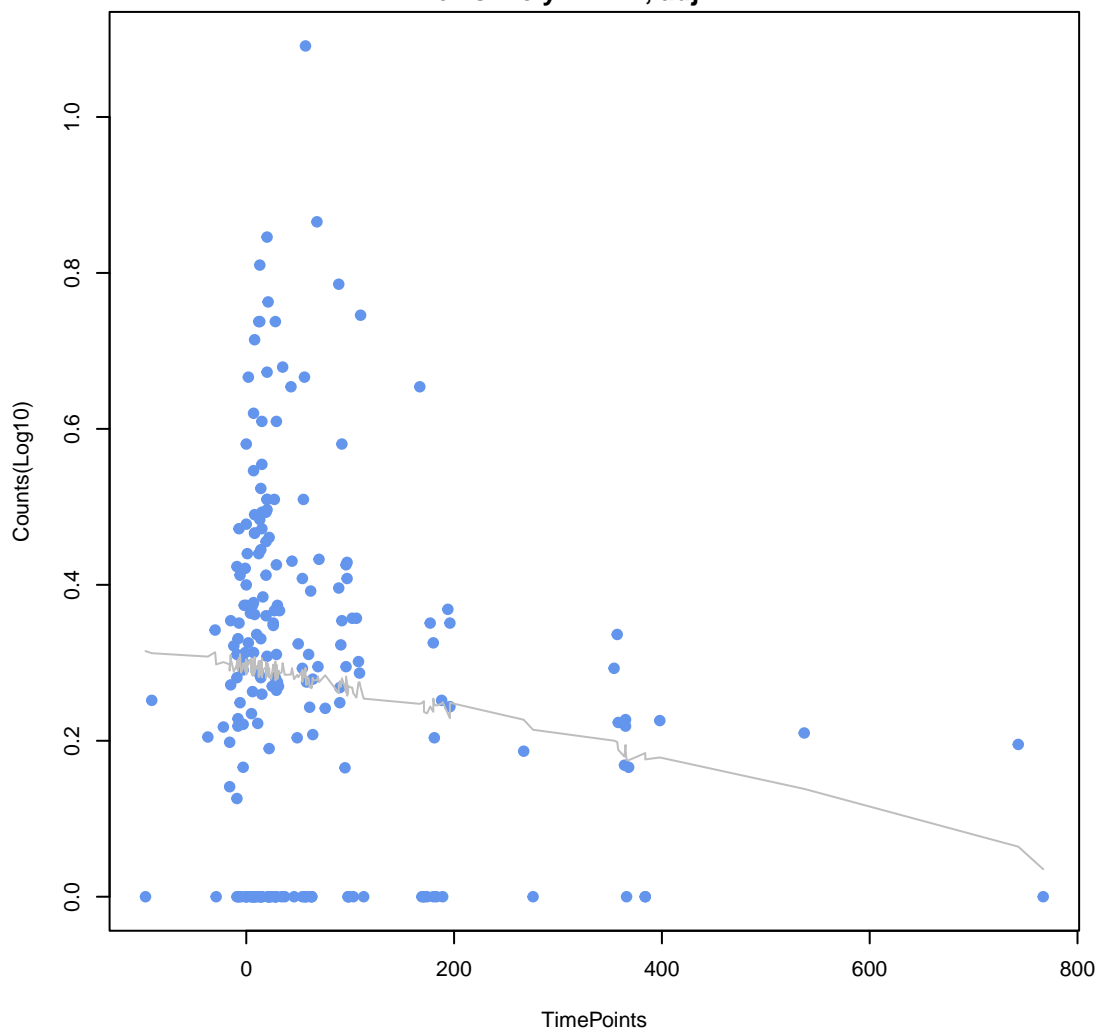


tet(W/N/W)

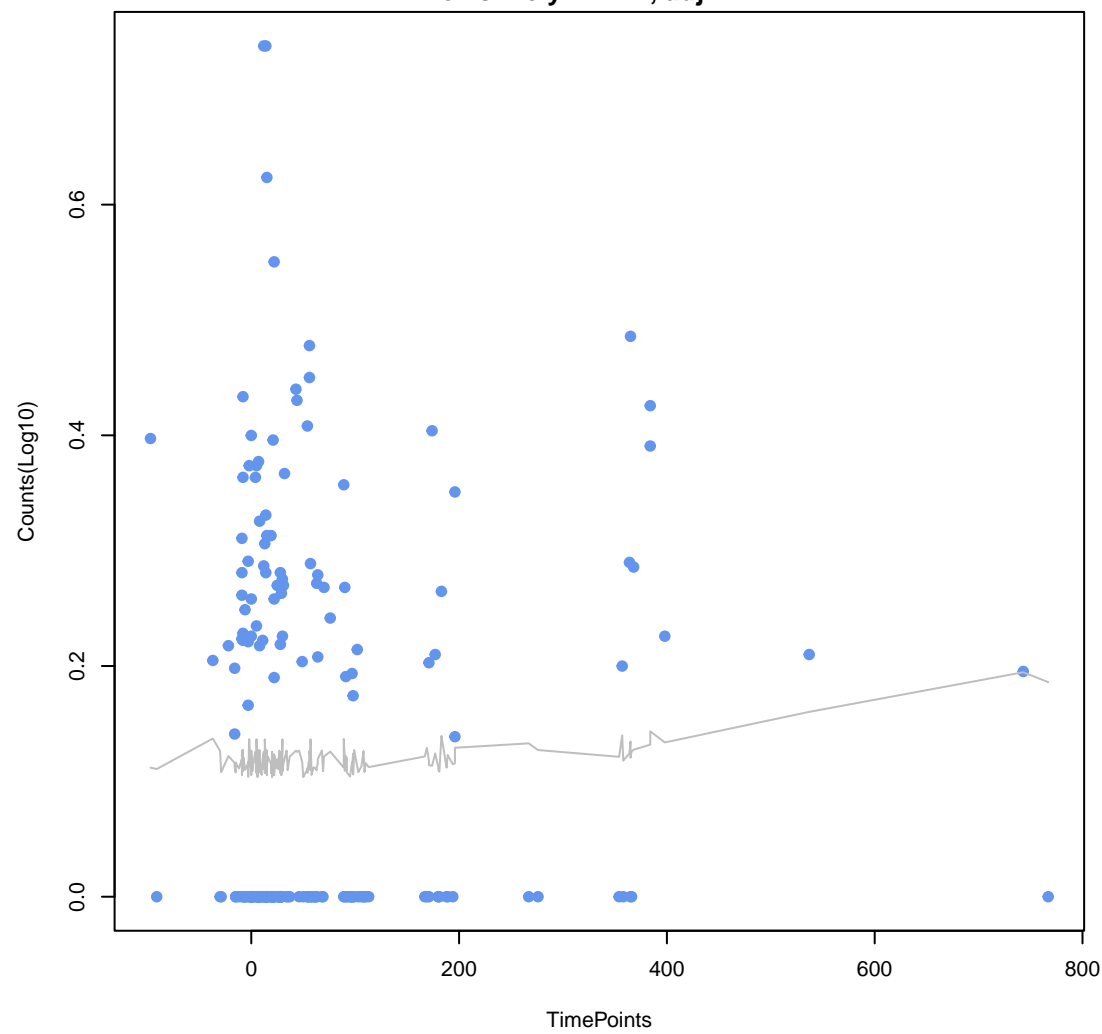
ANOVA P=0.483, adj. ANOVA-P=0.803
Line vs. Poly F-P=1, adj. F-P=1



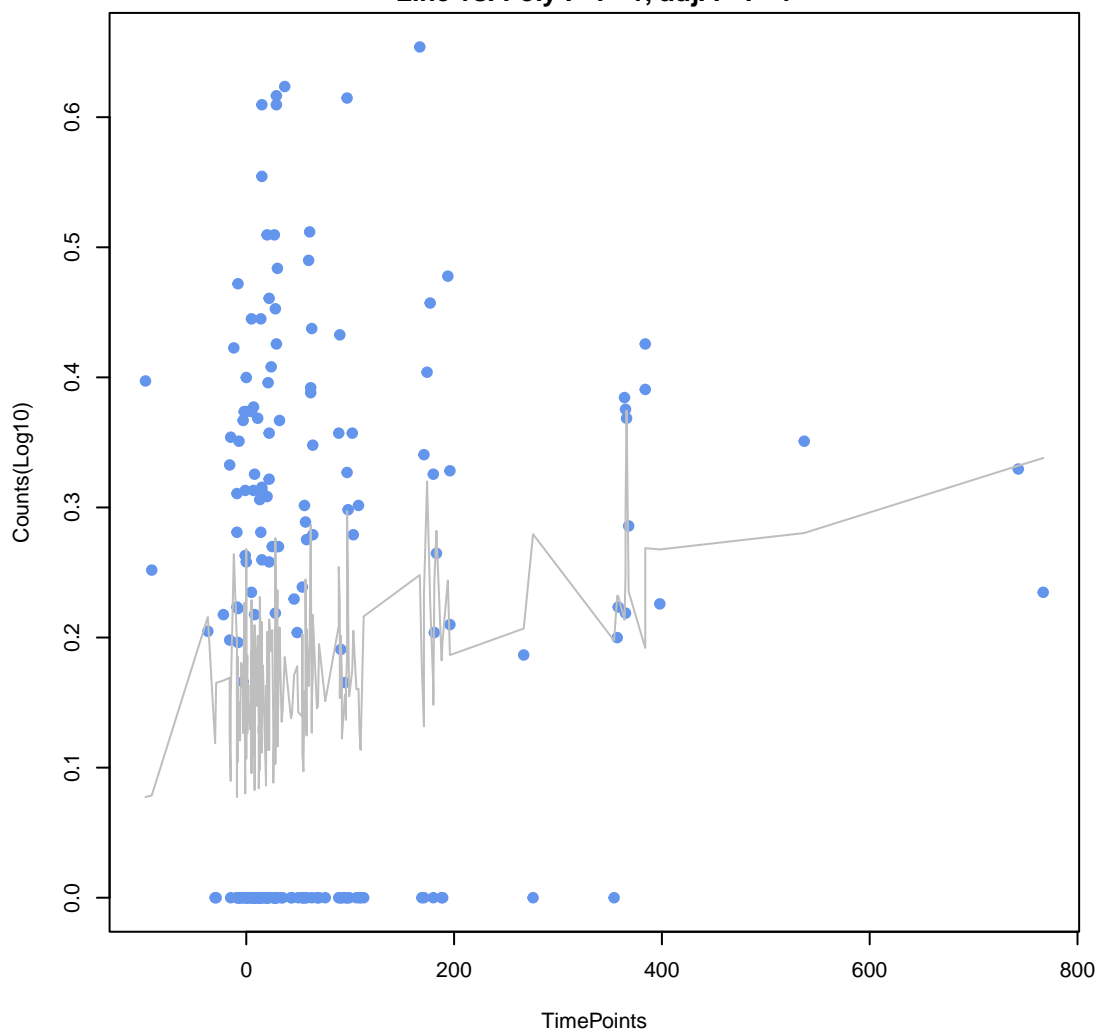
ErmF
ANOVA P=0.0641, adj. ANOVA-P=0.432
Line vs. Poly F-P=1, adj. F-P=1



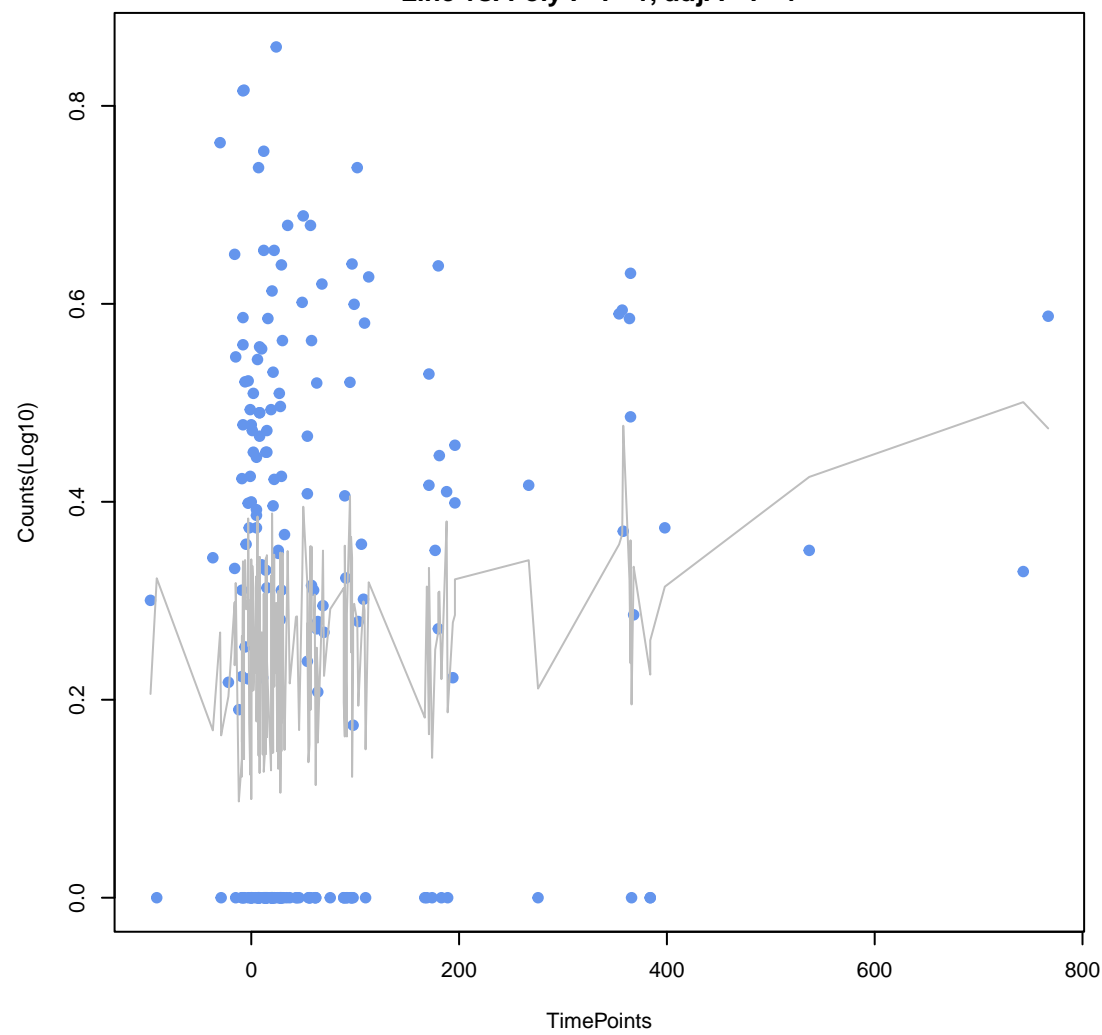
mdtA
ANOVA P=0.785, adj. ANOVA-P=0.986
Line vs. Poly F-P=1, adj. F-P=1



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



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

