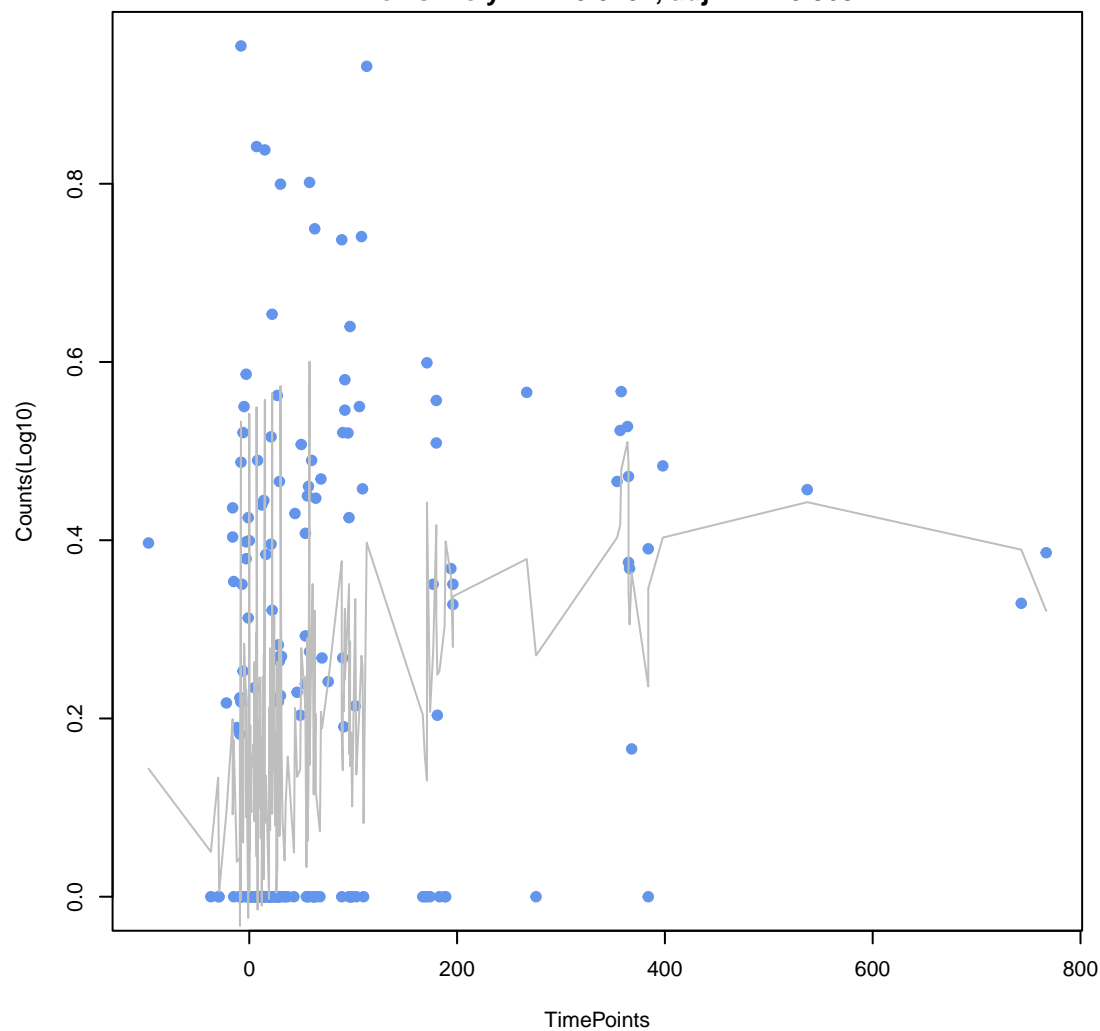
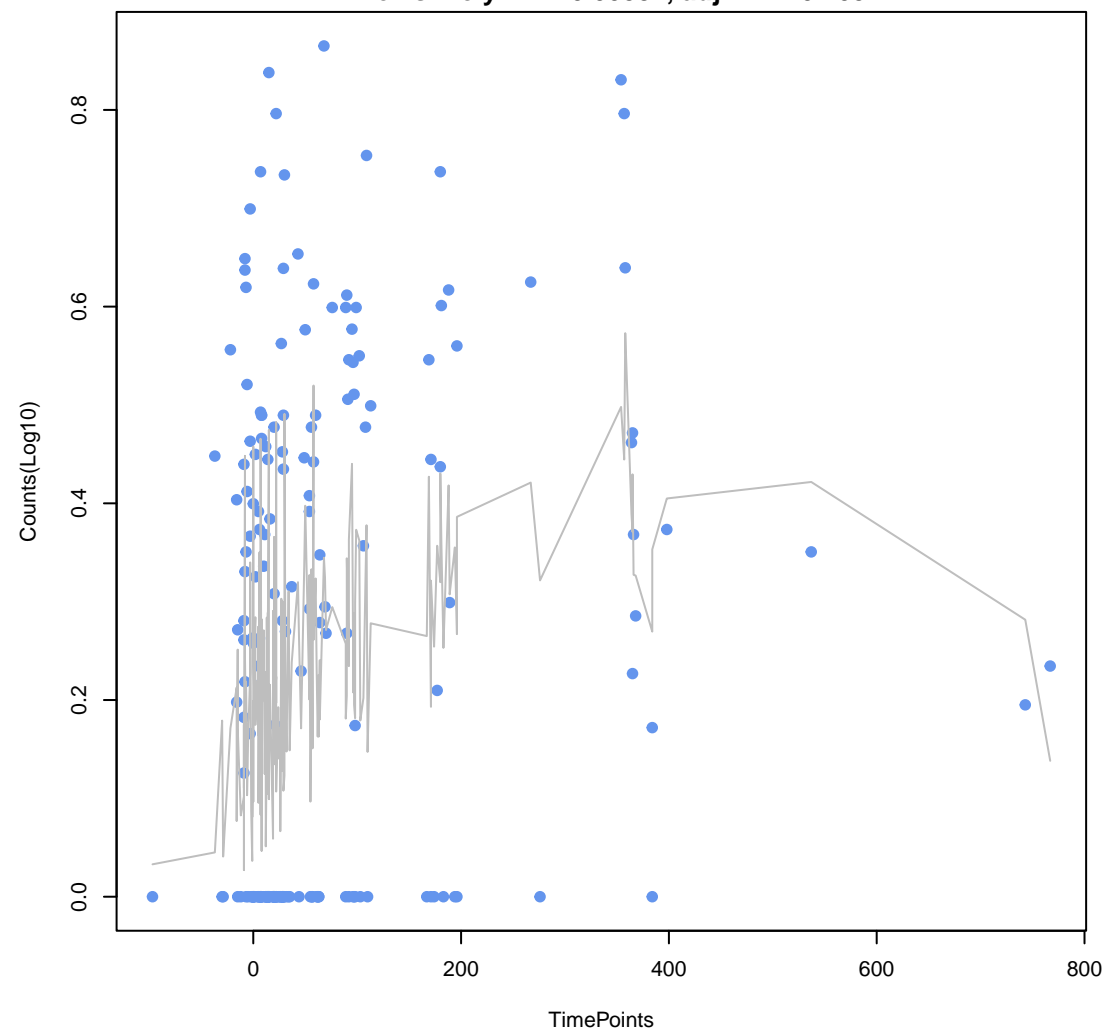


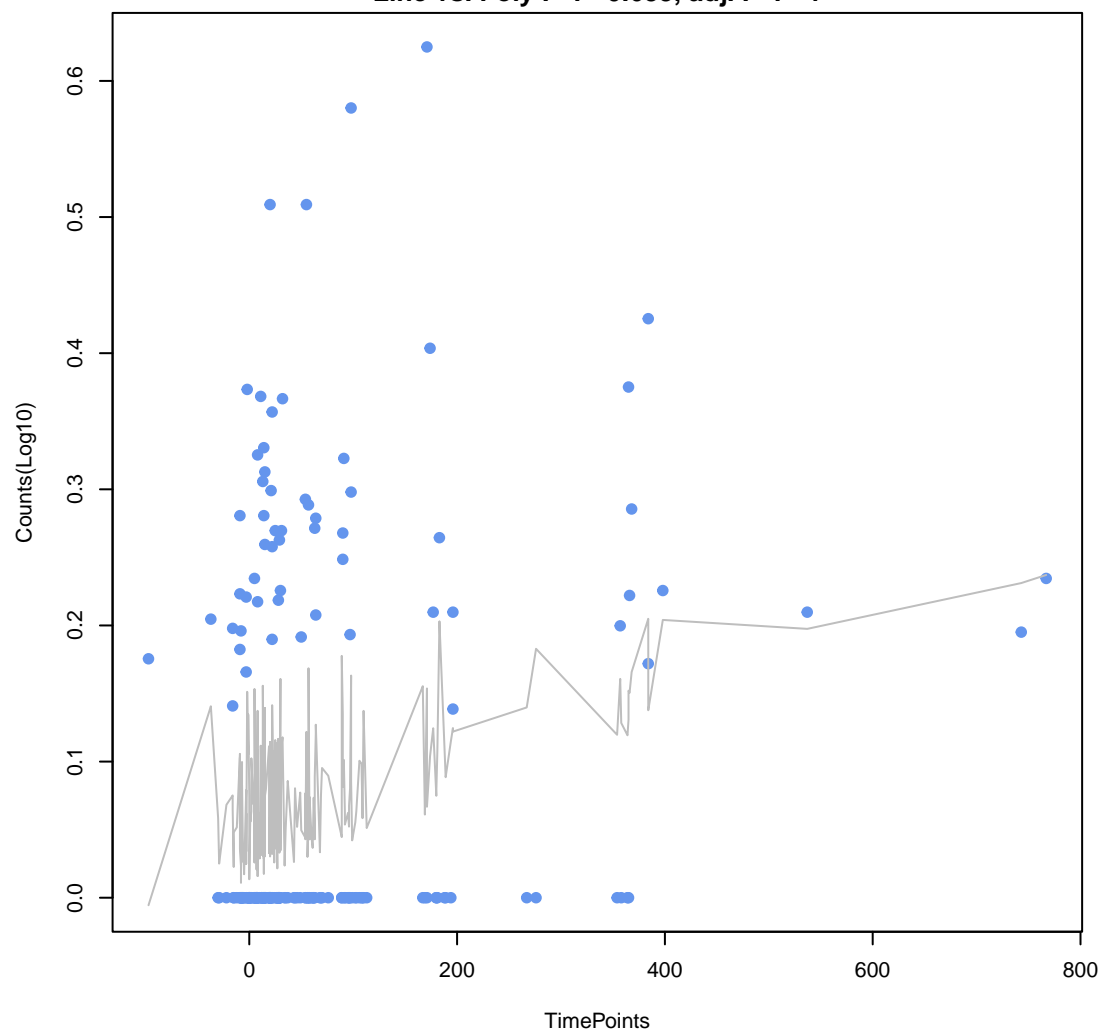
nimA
ANOVA $P=7.07e-06$, adj. ANOVA- $P=0.000756$
Line vs. Poly F- $P=0.0204$, adj. F- $P=0.363$



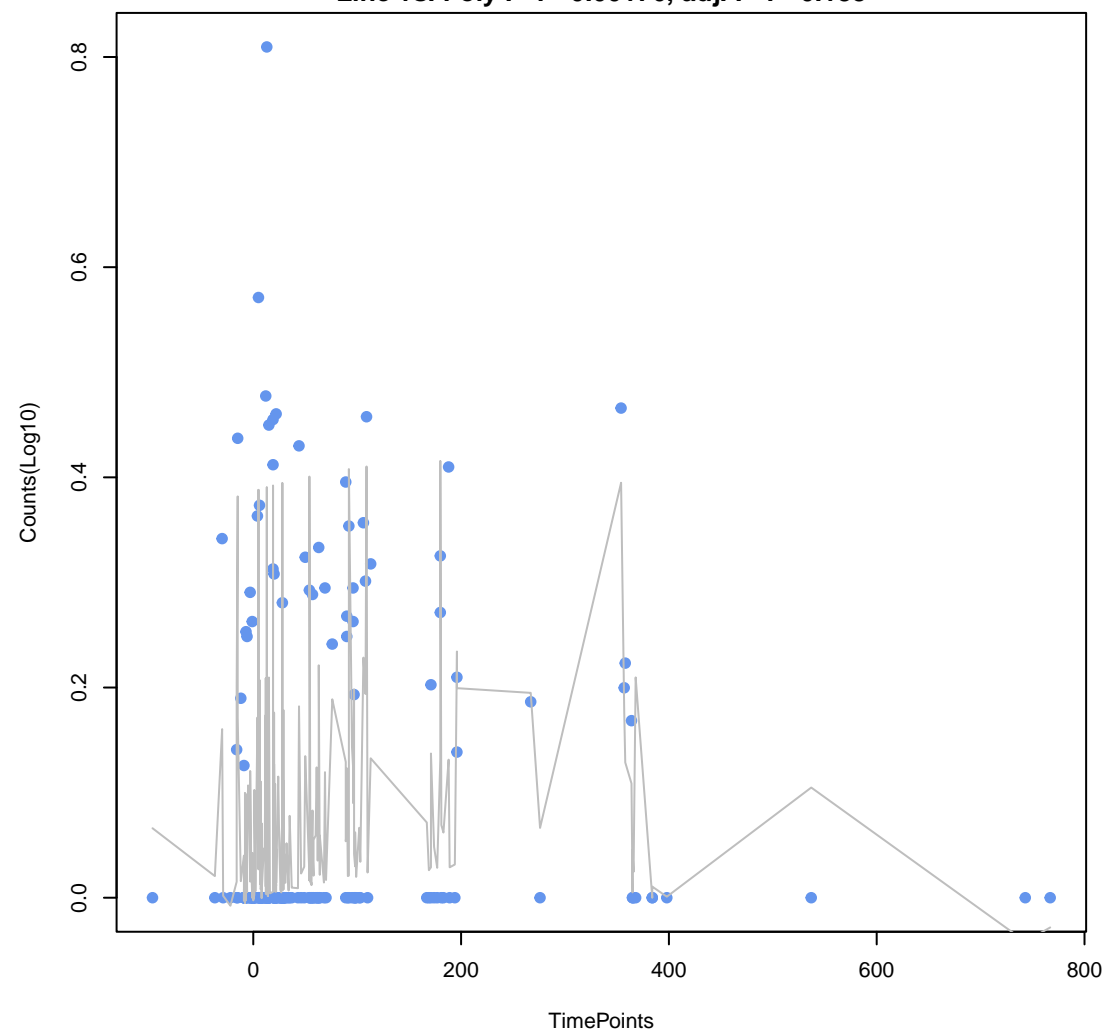
nimJ
ANOVA $P=0.000158$, adj. ANOVA- $P=0.00845$
Line vs. Poly F- $P=0.00381$, adj. F- $P=0.203$



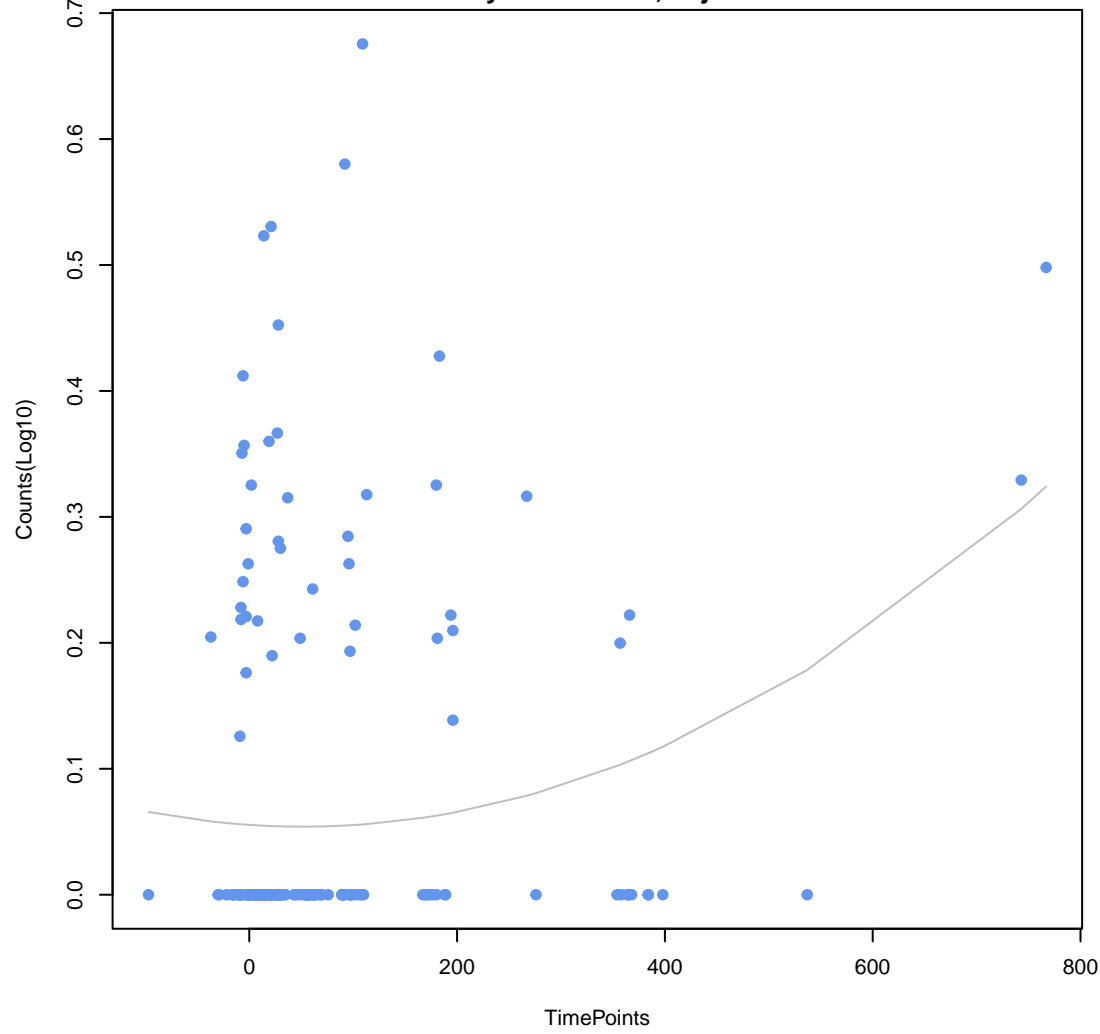
evgA
ANOVA $P=0.00483$, adj. ANOVA- $P=0.15$
Line vs. Poly F- $P=0.633$, adj. F- $P=1$



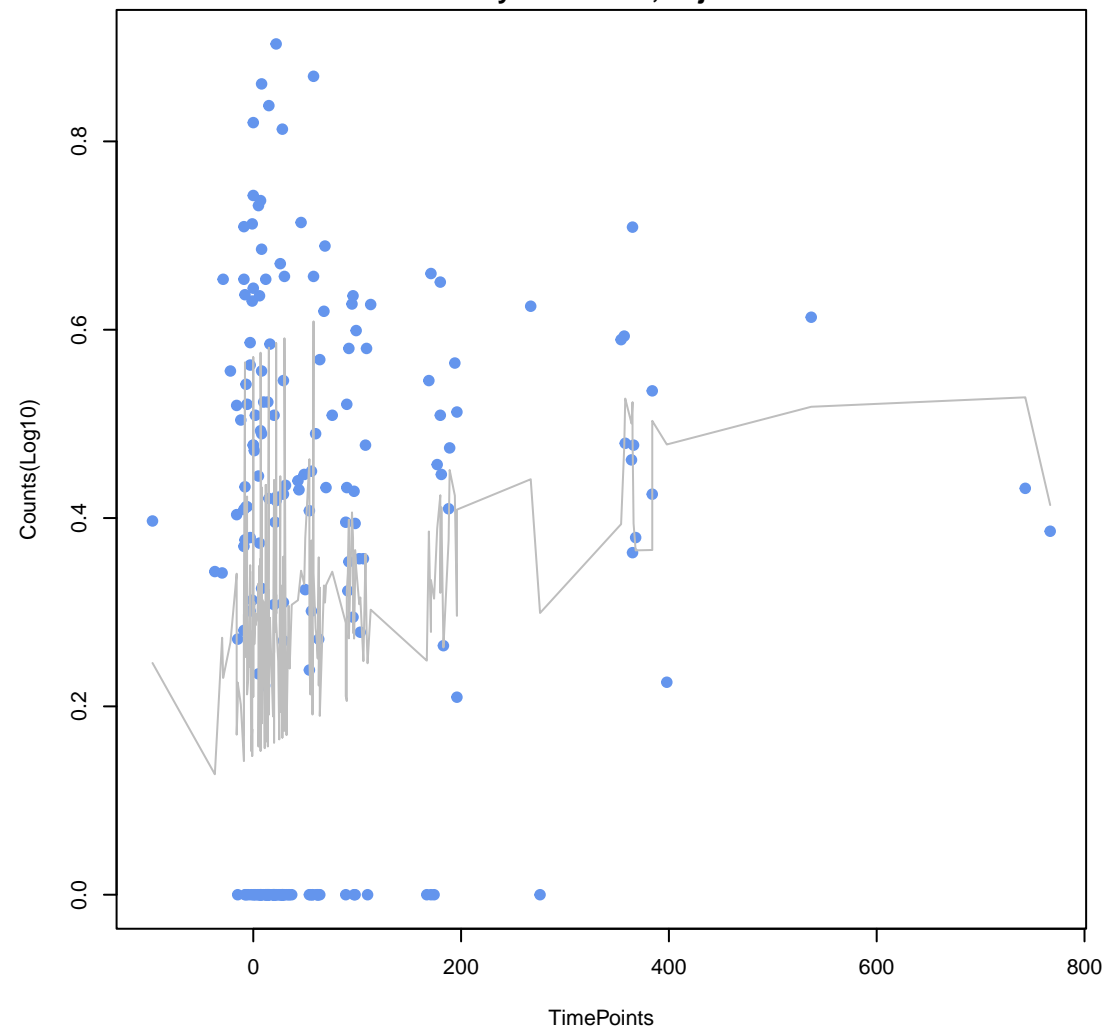
vanR gene in vanE cluster
ANOVA $P=0.00682$, adj. ANOVA- $P=0.15$
Line vs. Poly F- $P=0.00176$, adj. F- $P=0.188$



adeA
ANOVA $P=0.00721$, adj. ANOVA- $P=0.15$
Line vs. Poly F- $P=0.0943$, adj. F- $P=0.674$

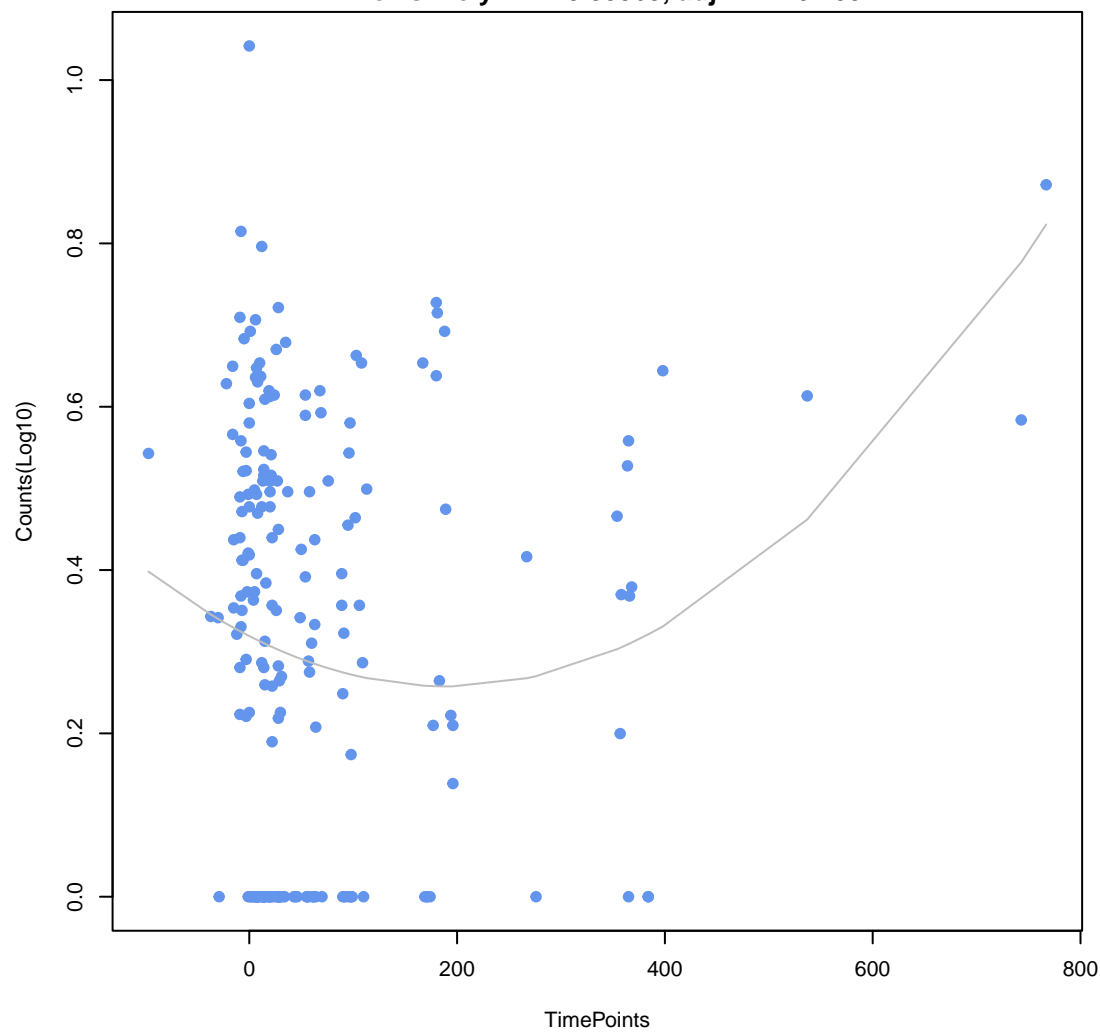


tet(36)
ANOVA $P=0.00915$, adj. ANOVA- $P=0.15$
Line vs. Poly F- $P=0.267$, adj. F- $P=0.841$

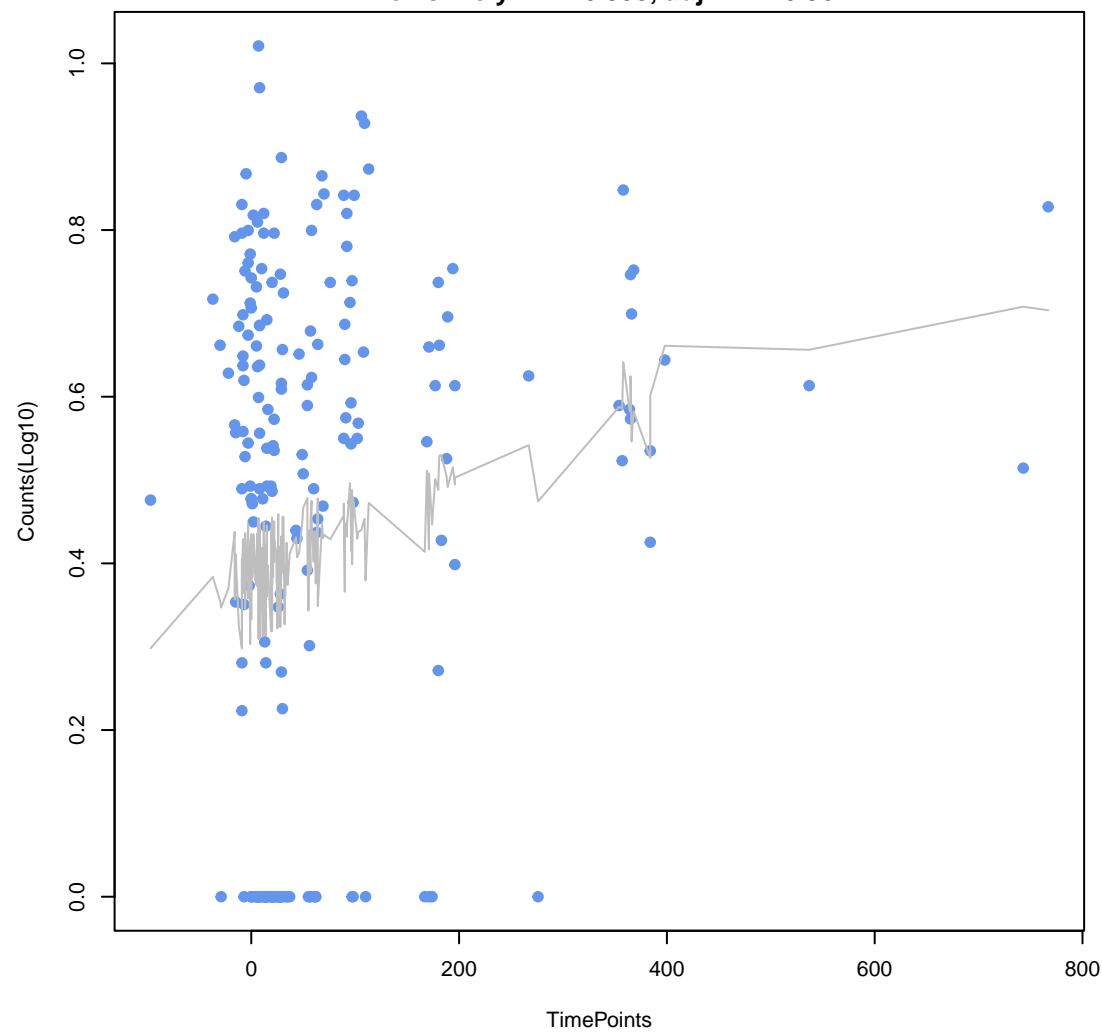


BlaB-16

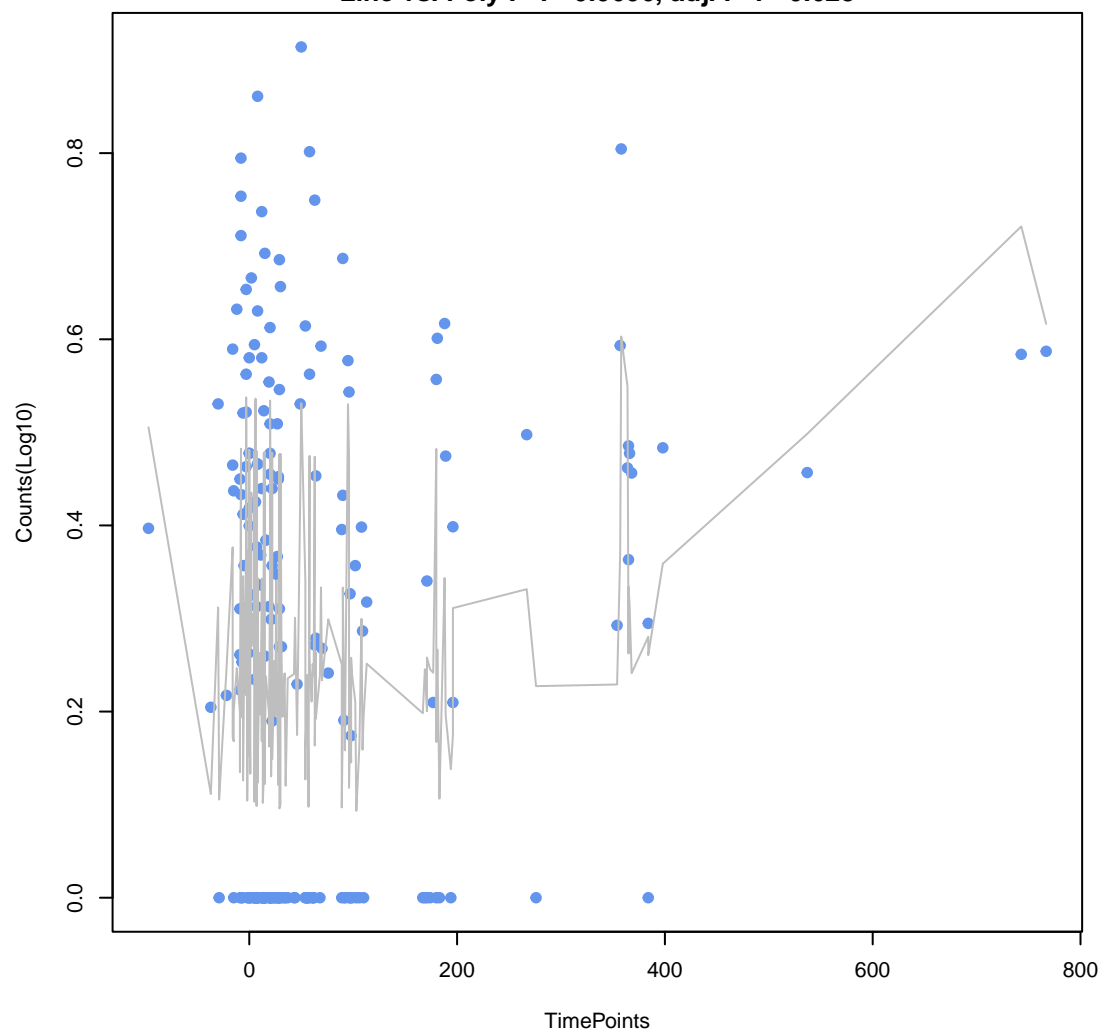
ANOVA $P=0.00978$, adj. ANOVA- $P=0.15$
Line vs. Poly F- $P=0.00569$, adj. F- $P=0.203$

**tet(T)**

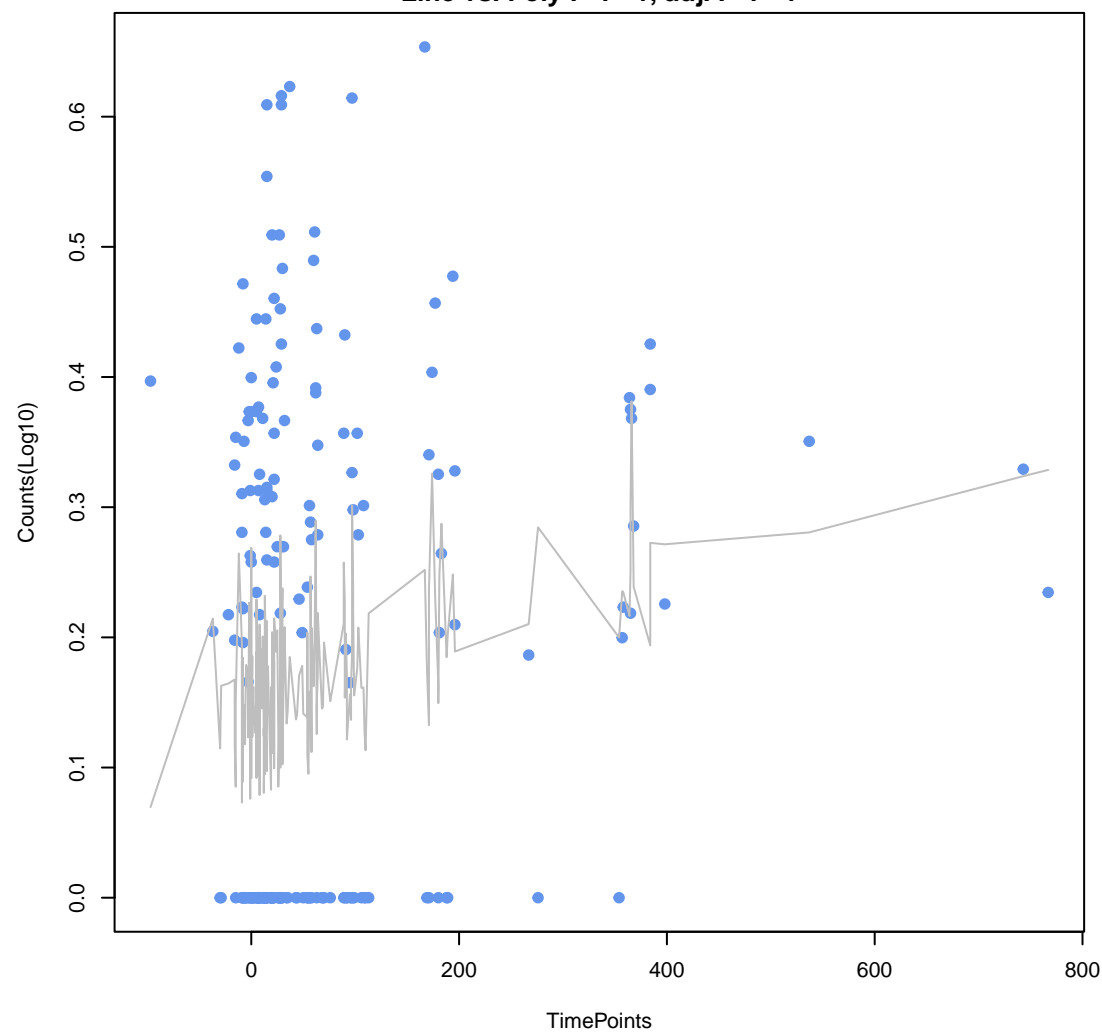
ANOVA $P=0.012$, adj. ANOVA- $P=0.16$
Line vs. Poly F- $P=0.395$, adj. F- $P=0.961$

**mefH**

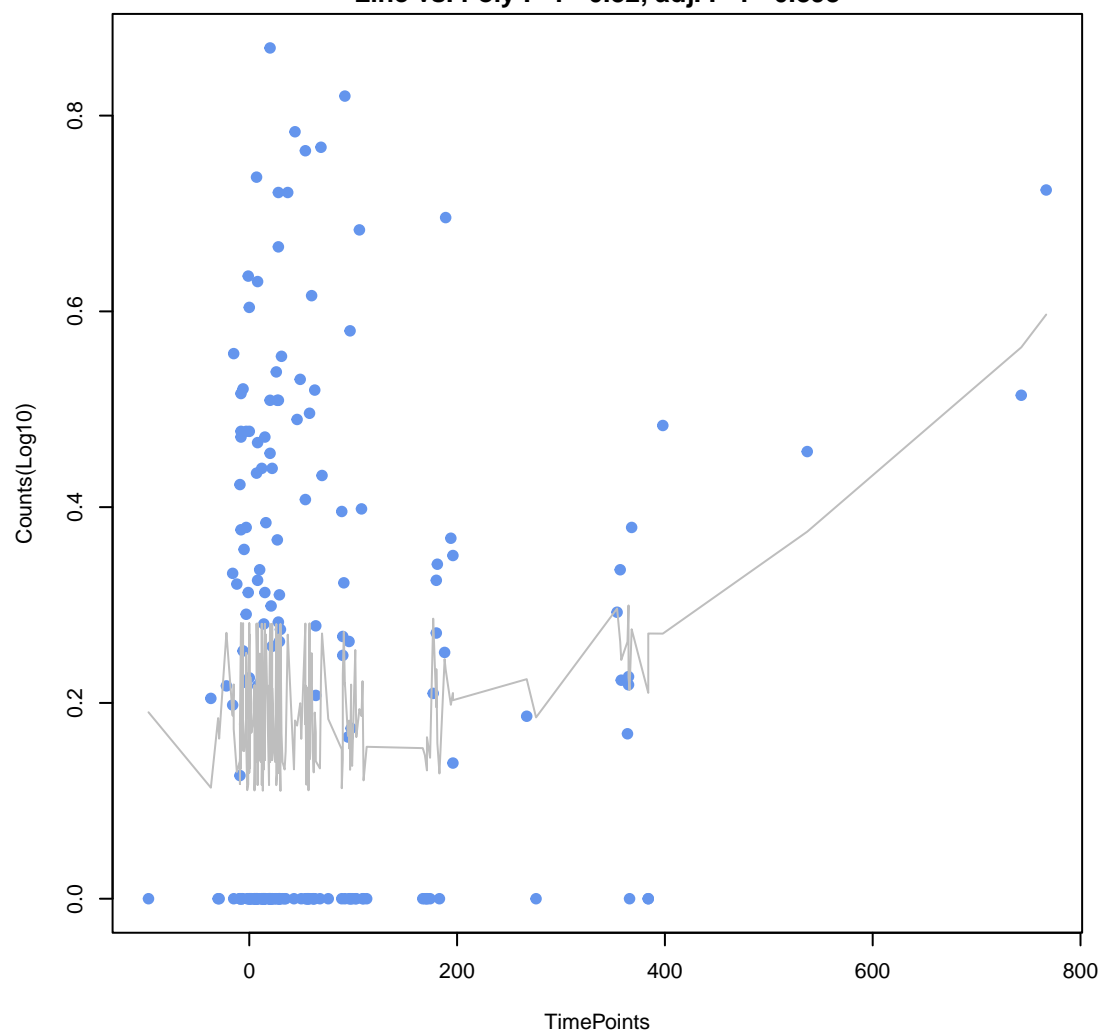
ANOVA $P=0.0142$, adj. ANOVA- $P=0.168$
Line vs. Poly F- $P=0.0606$, adj. F- $P=0.628$

**bacA**

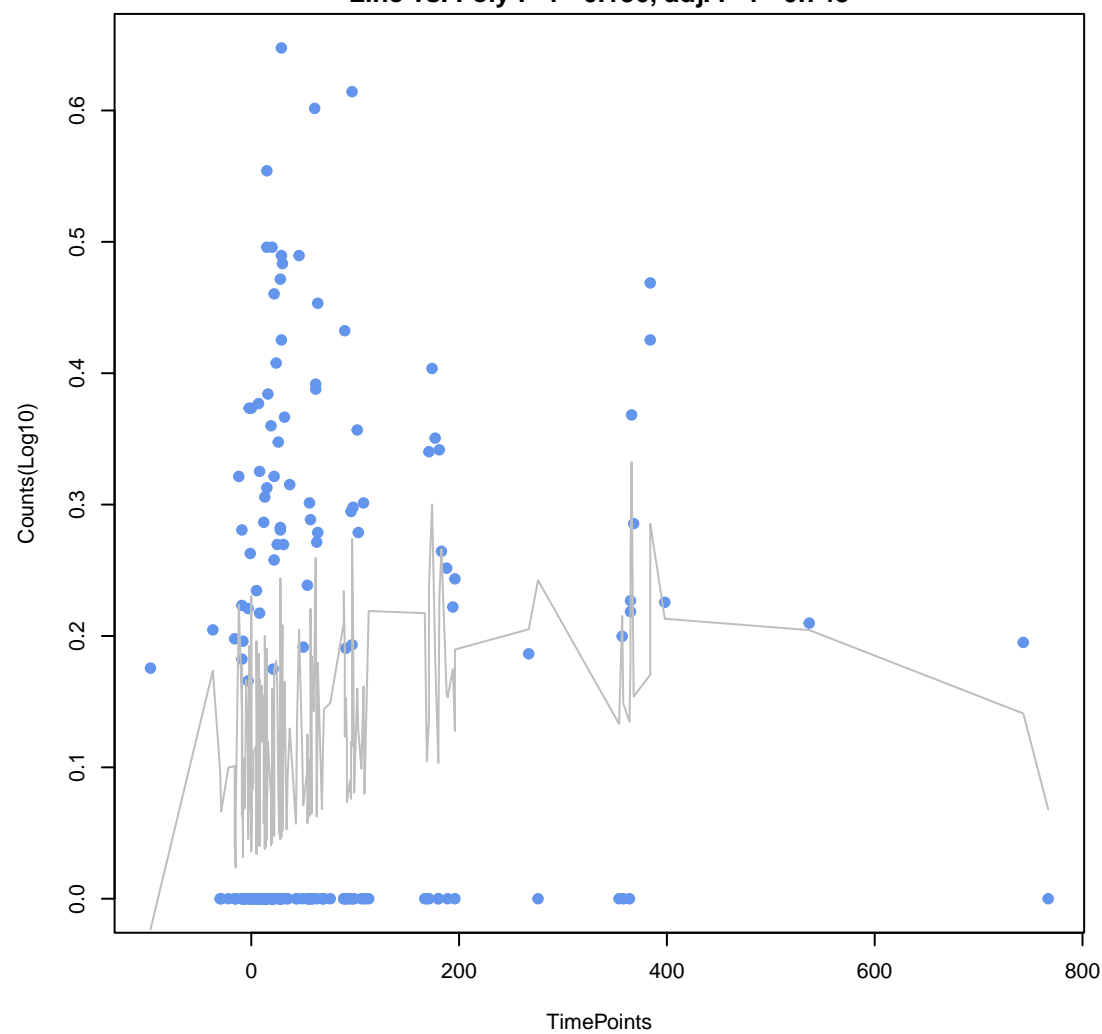
ANOVA $P=0.023$, adj. ANOVA- $P=0.224$
Line vs. Poly F- $P=1$, adj. F- $P=1$

**tet(44)**

ANOVA $P=0.0231$, adj. ANOVA- $P=0.224$
Line vs. Poly F- $P=0.32$, adj. F- $P=0.898$

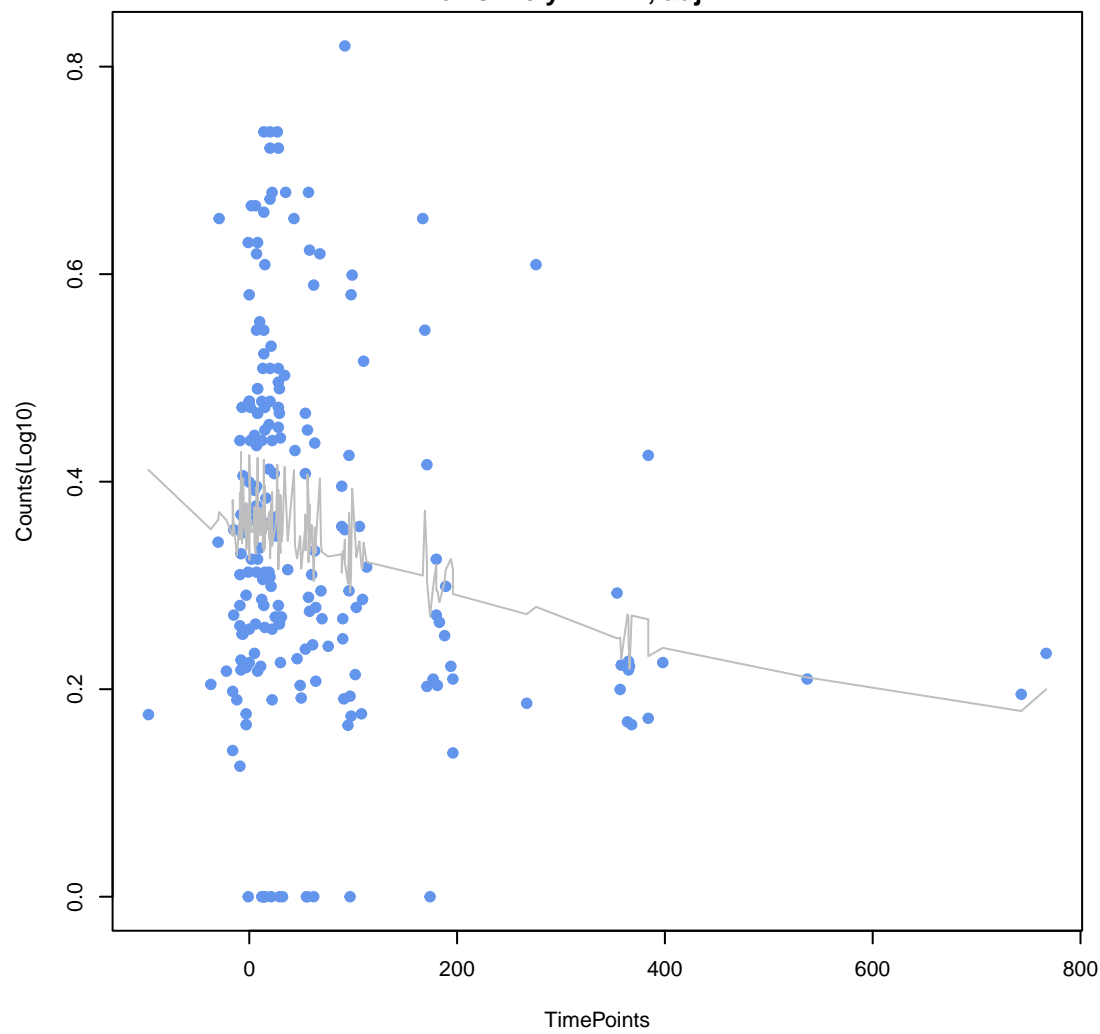


scherrichia coli AcrAB-TolC with MarR mutations conferring resistance to ciprofloxacin and
ANOVA $P=0.0263$, adj. ANOVA- $P=0.224$
Line vs. Poly F- $P=0.136$, adj. F- $P=0.745$



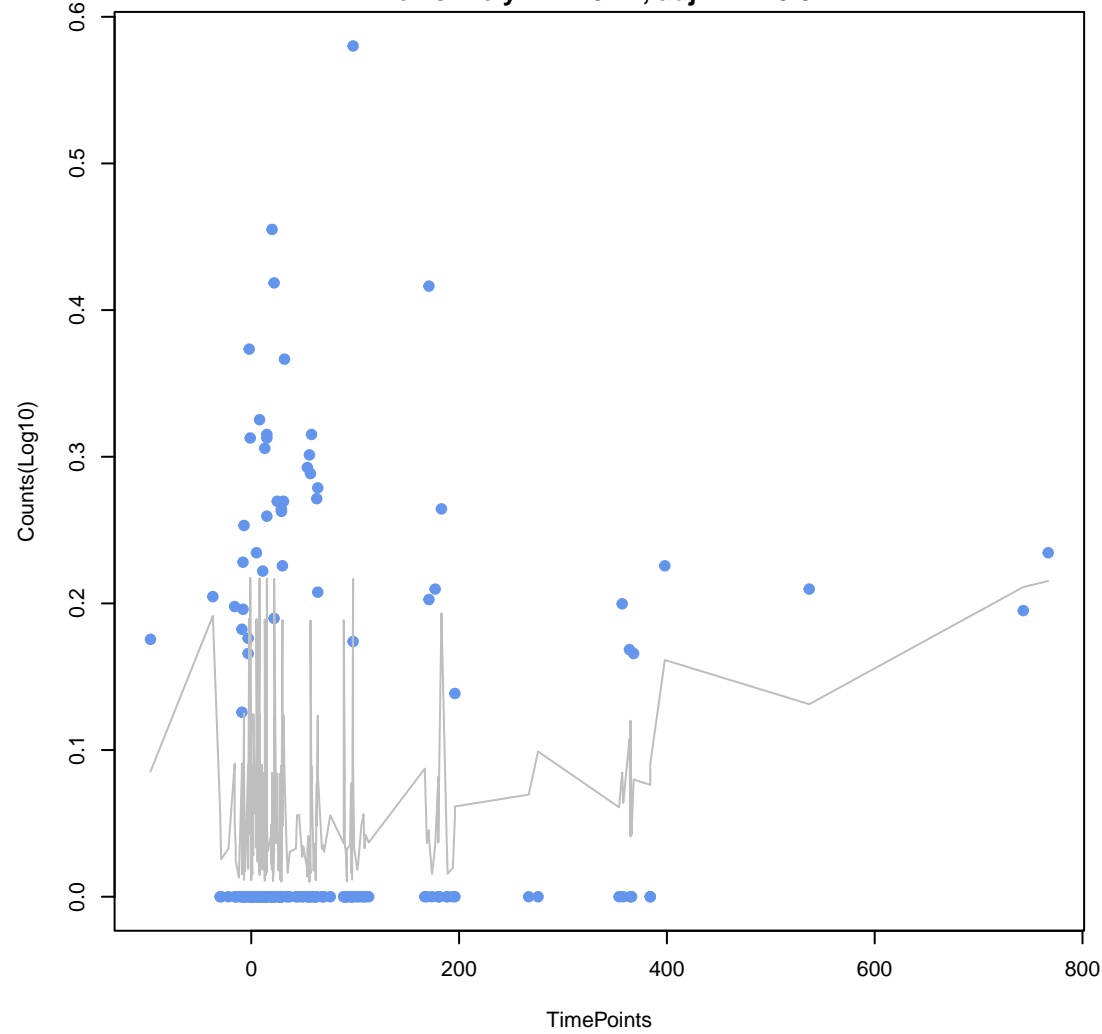
ErmB

ANOVA P=0.0272, adj. ANOVA-P=0.224
Line vs. Poly F-P=1, adj. F-P=1



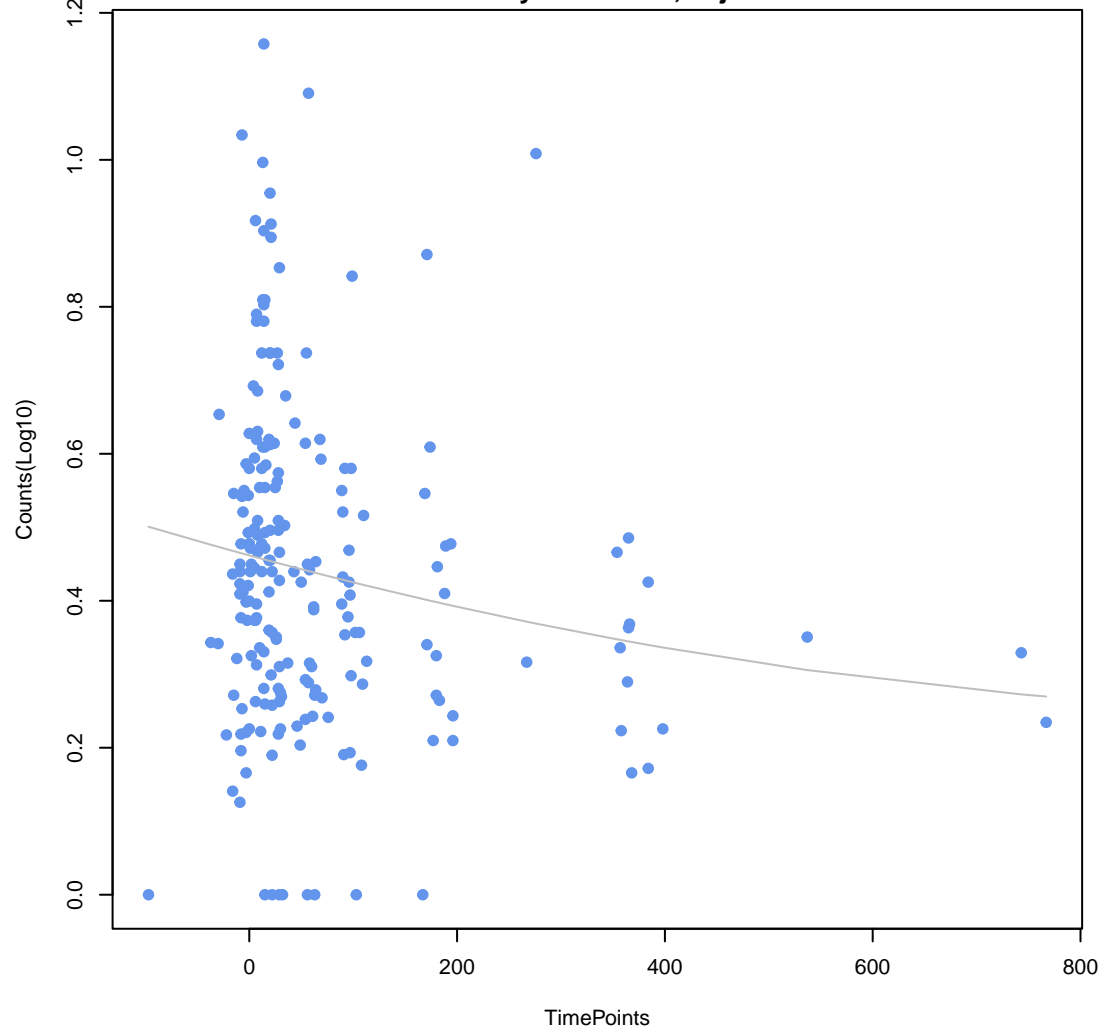
gadW

ANOVA P=0.0599, adj. ANOVA-P=0.399
Line vs. Poly F-P=0.22, adj. F-P=0.841



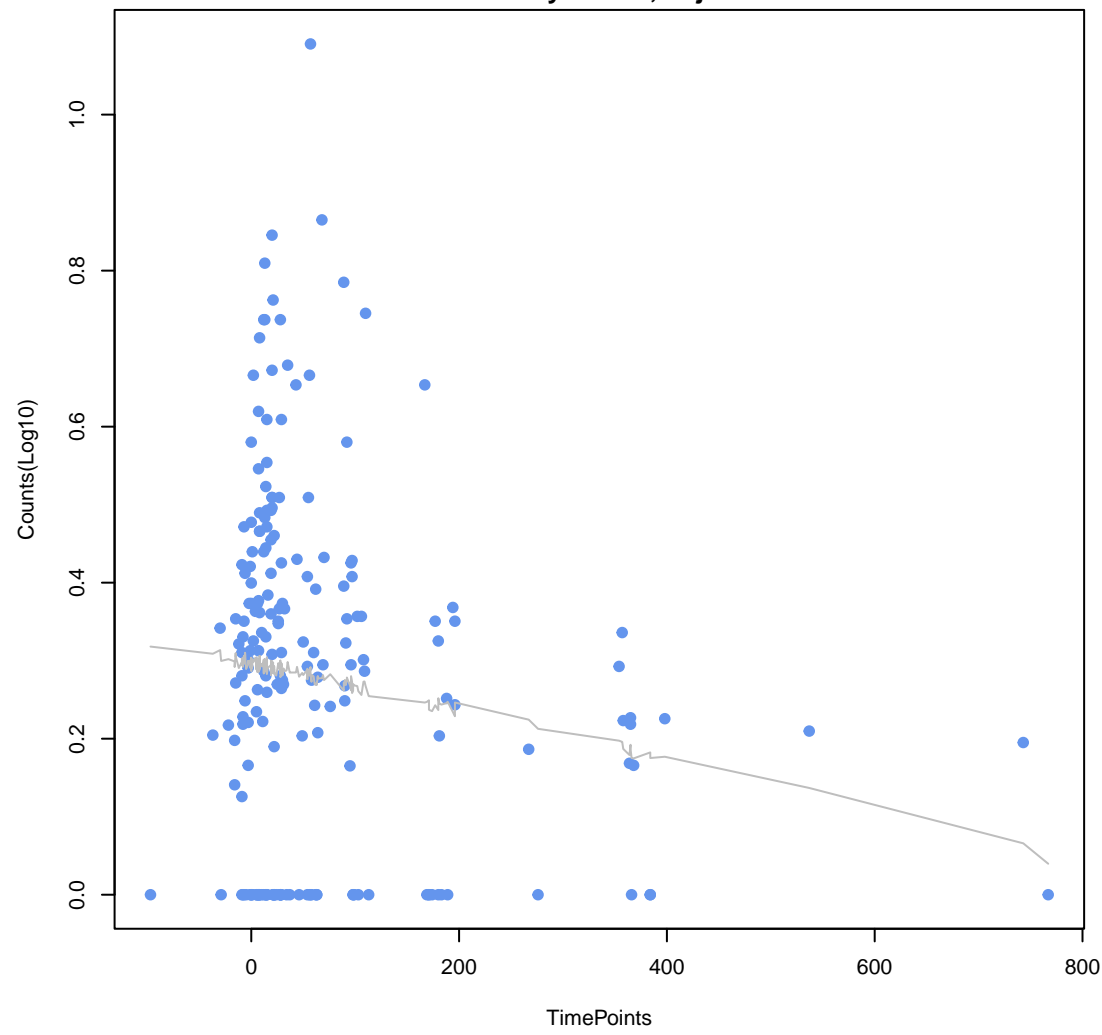
tet(W)

ANOVA P=0.06, adj. ANOVA-P=0.399
Line vs. Poly F-P=0.736, adj. F-P=1

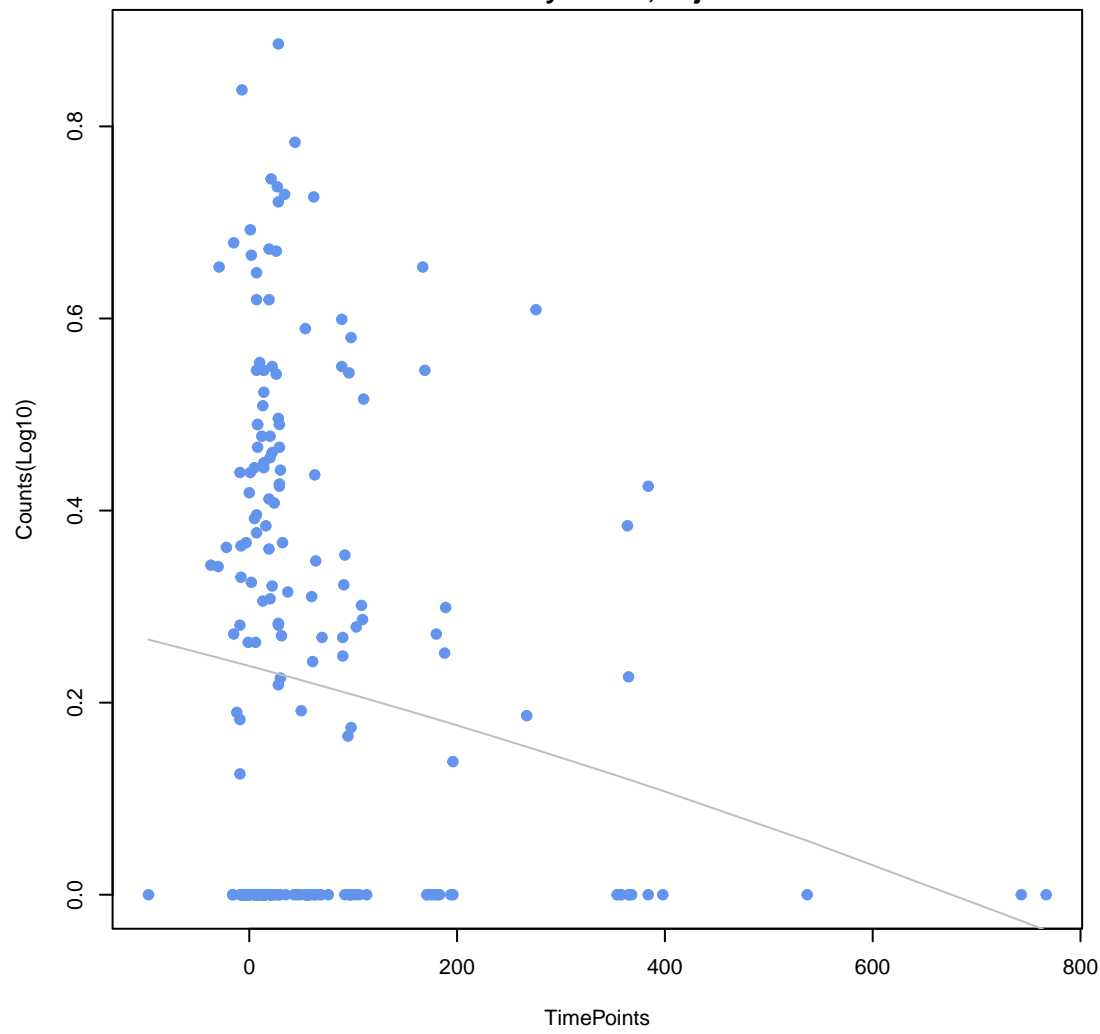


ErmF

ANOVA P=0.0629, adj. ANOVA-P=0.399
Line vs. Poly F-P=1, adj. F-P=1

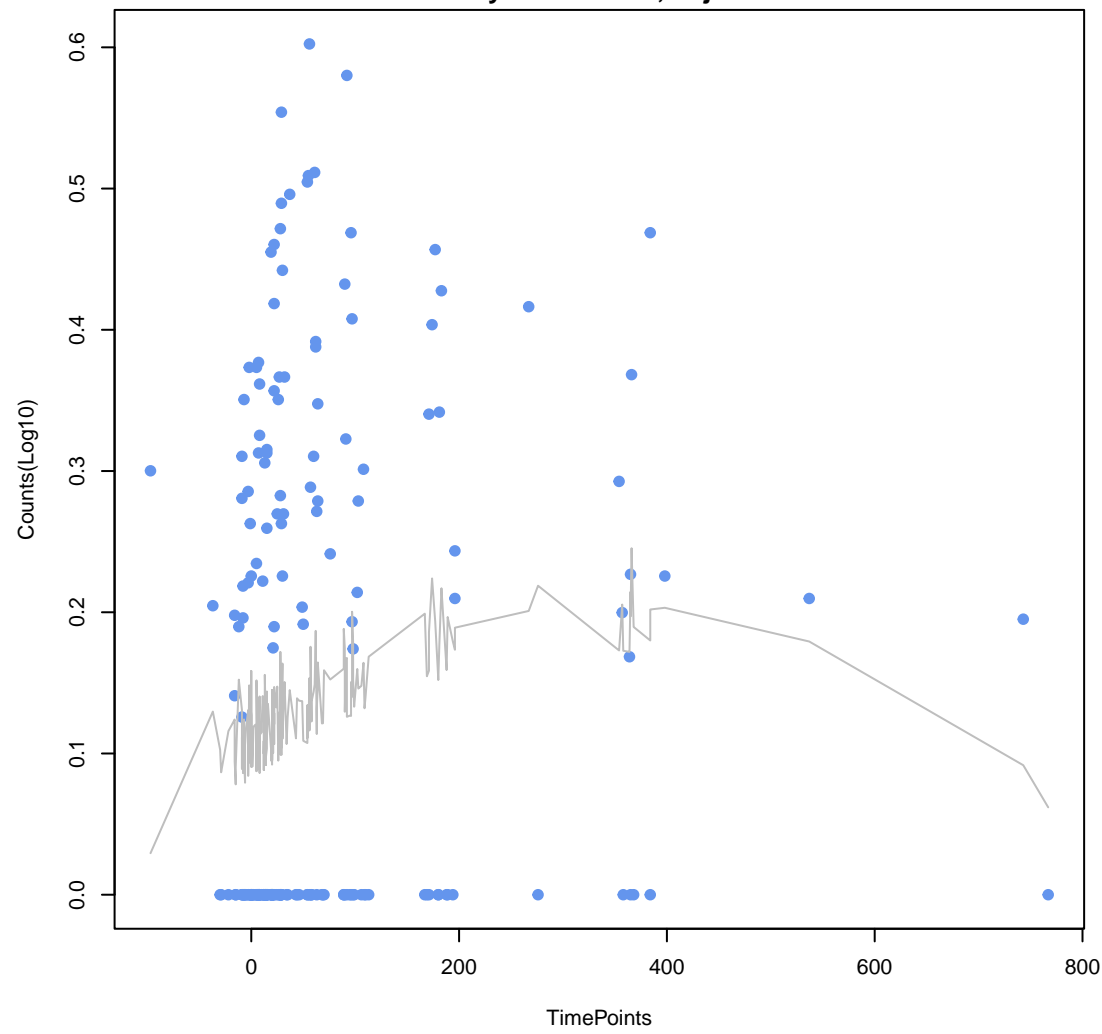


vanH gene in vanA cluster
ANOVA P=0.0647, adj. ANOVA-P=0.399
Line vs. Poly F-P=1, adj. F-P=1

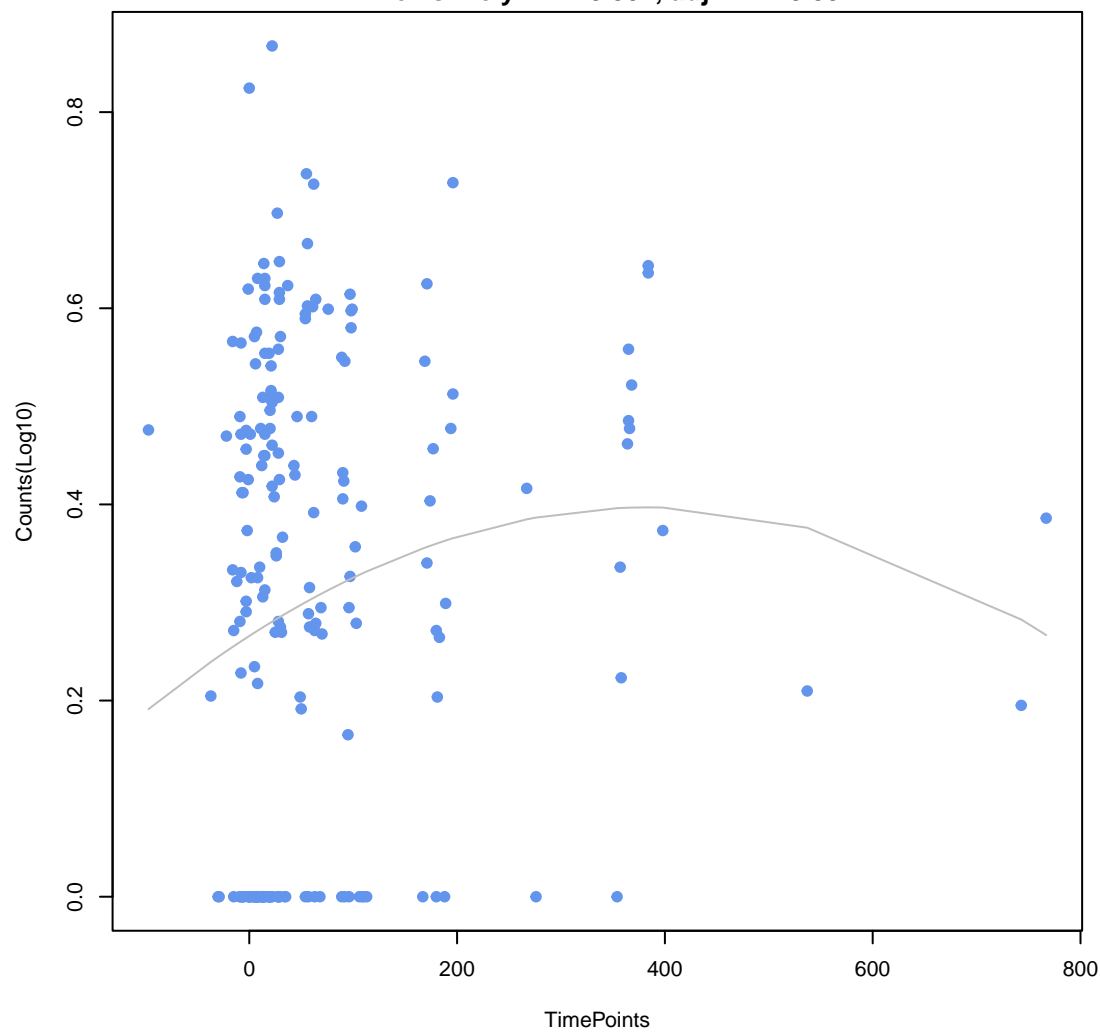


emrB

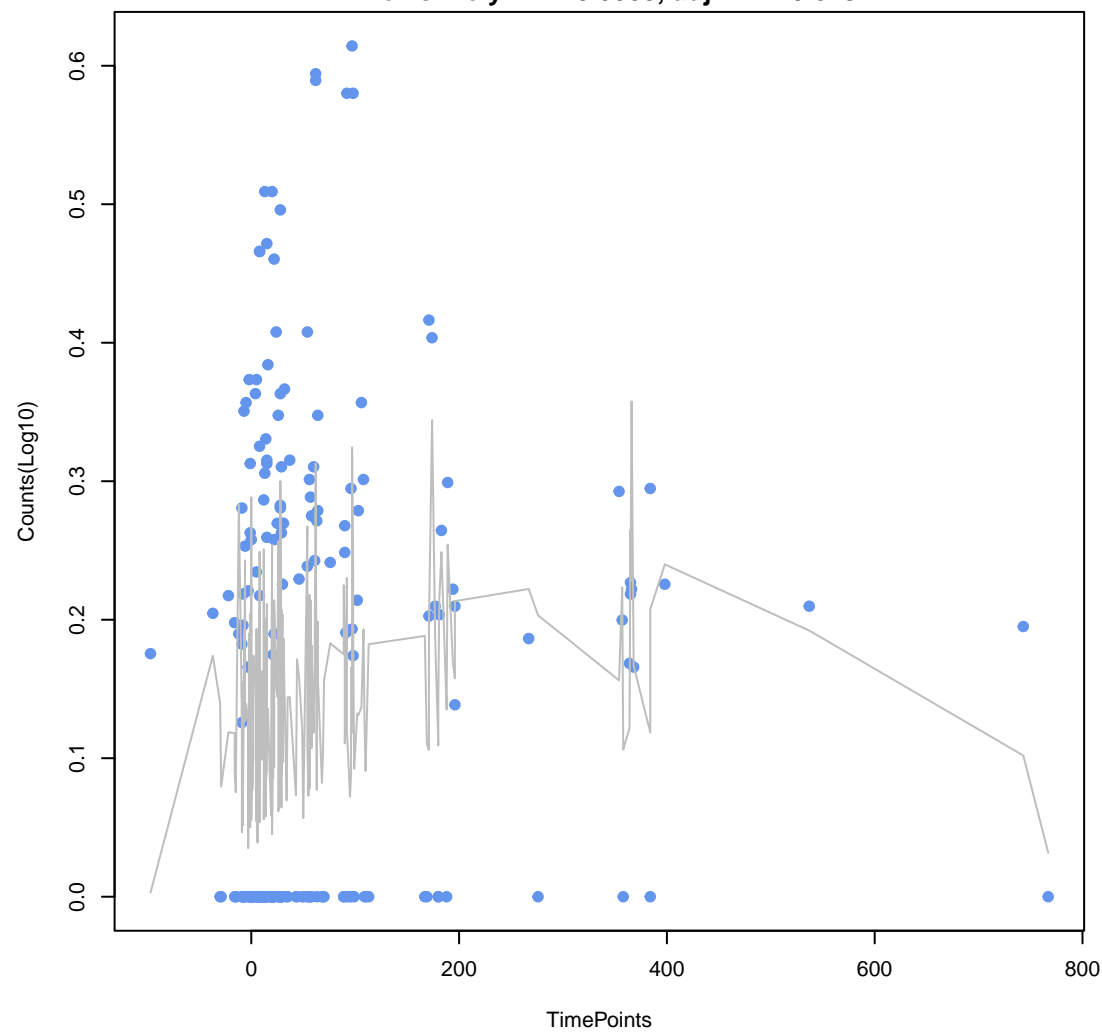
ANOVA P=0.0692, adj. ANOVA-P=0.399
Line vs. Poly F-P=0.0945, adj. F-P=0.674



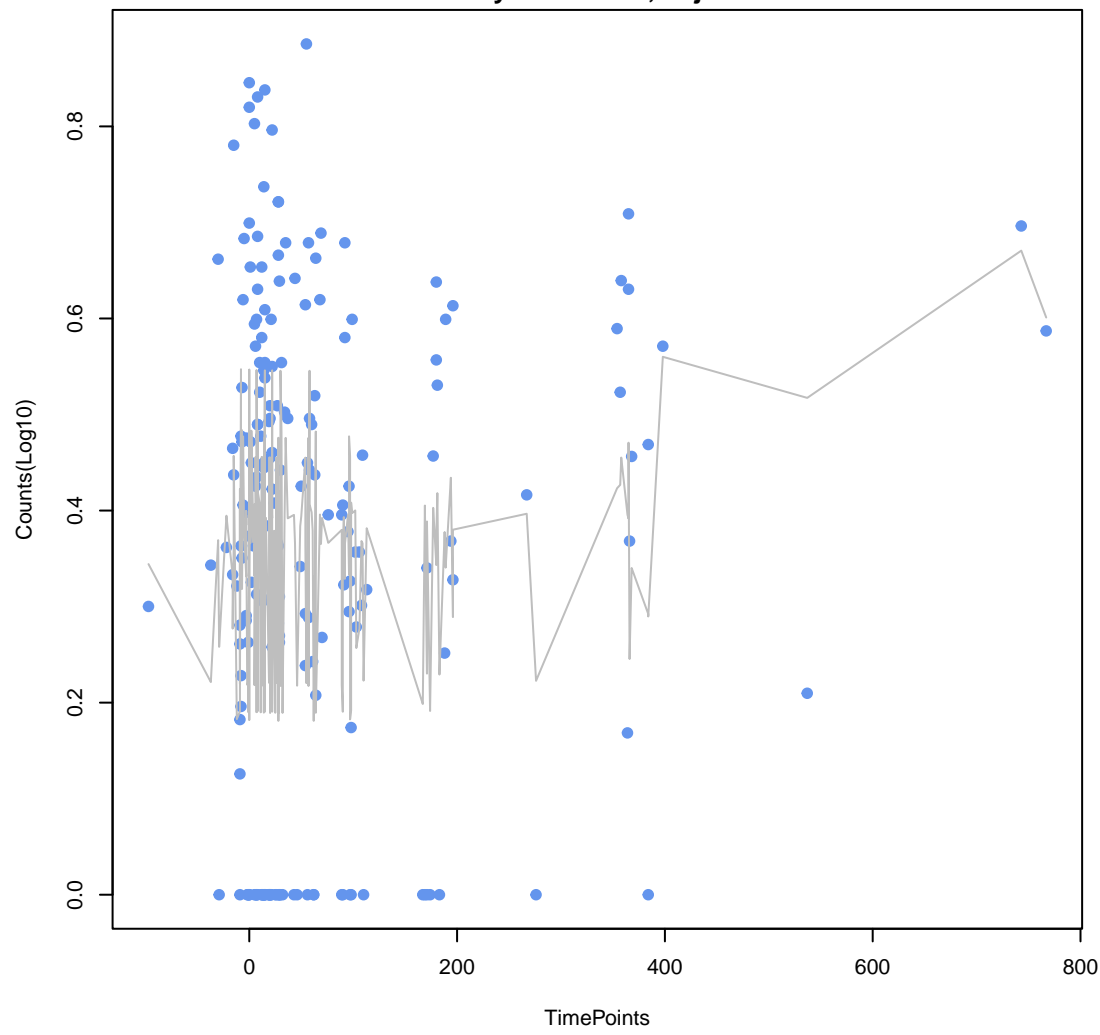
mdtB
ANOVA P=0.0709, adj. ANOVA-P=0.399
Line vs. Poly F-P=0.304, adj. F-P=0.88



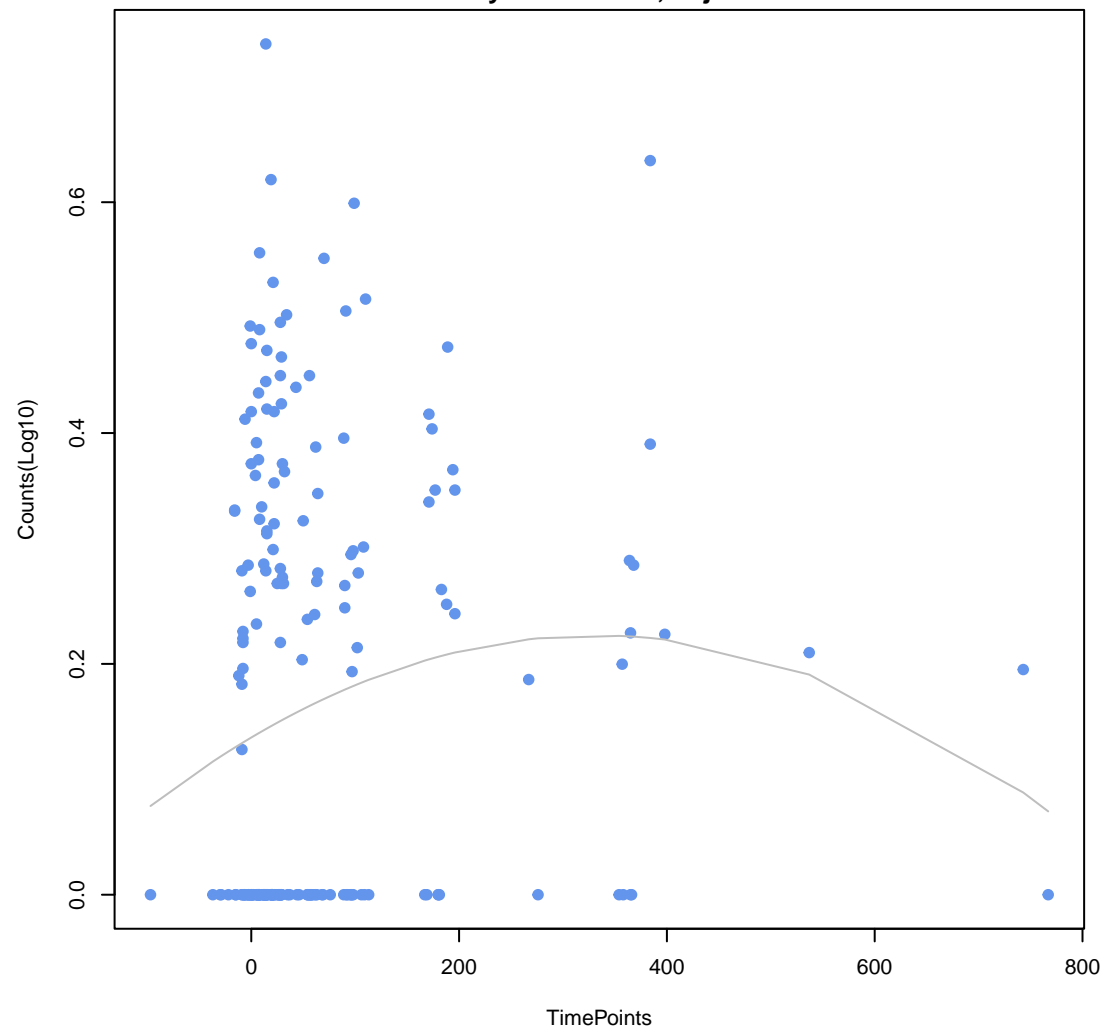
Escherichia coli EF-Tu mutants conferring resistance to Pulvomycin
ANOVA P=0.0848, adj. ANOVA-P=0.45
Line vs. Poly F-P=0.0505, adj. F-P=0.628



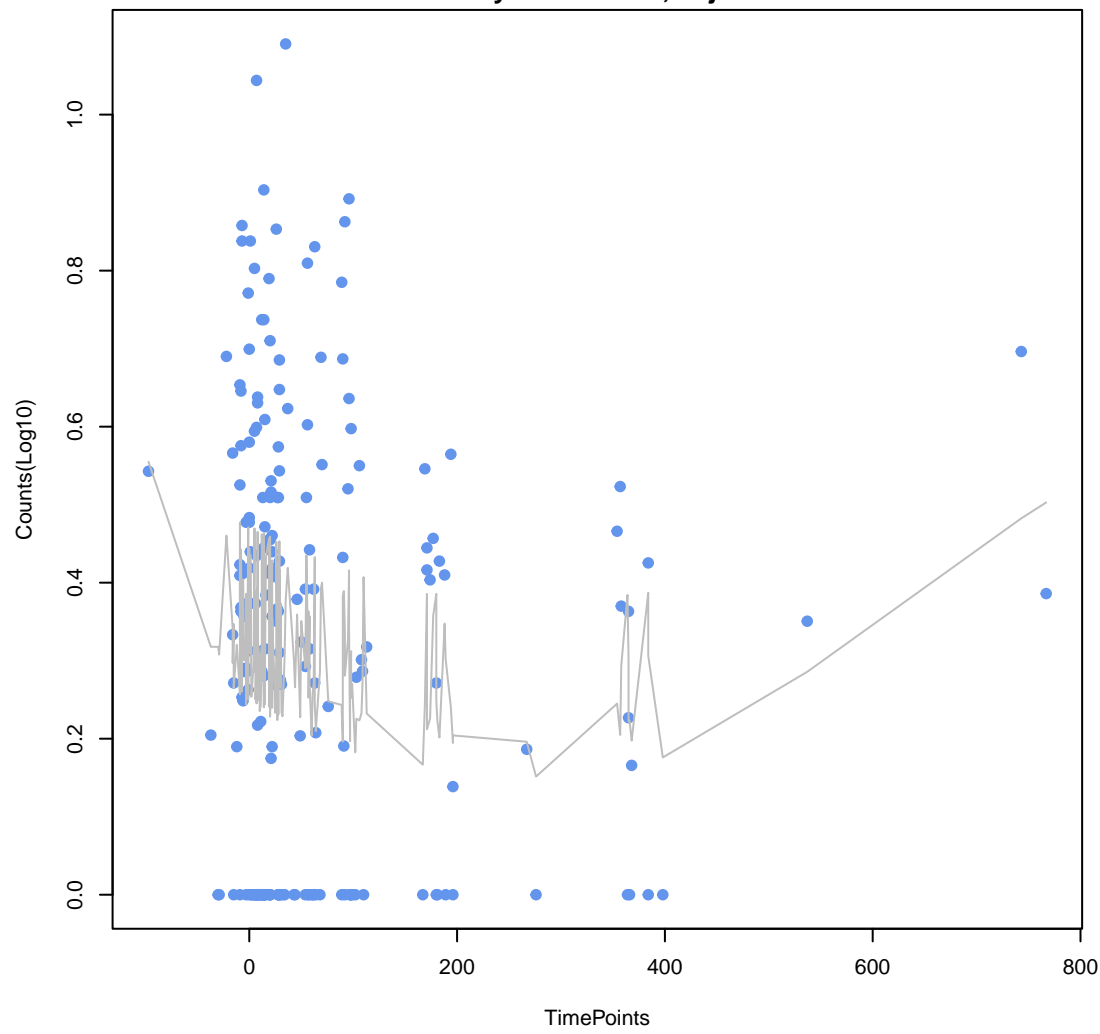
tet(32)
ANOVA P=0.0882, adj. ANOVA-P=0.45
Line vs. Poly F-P=0.283, adj. F-P=0.841



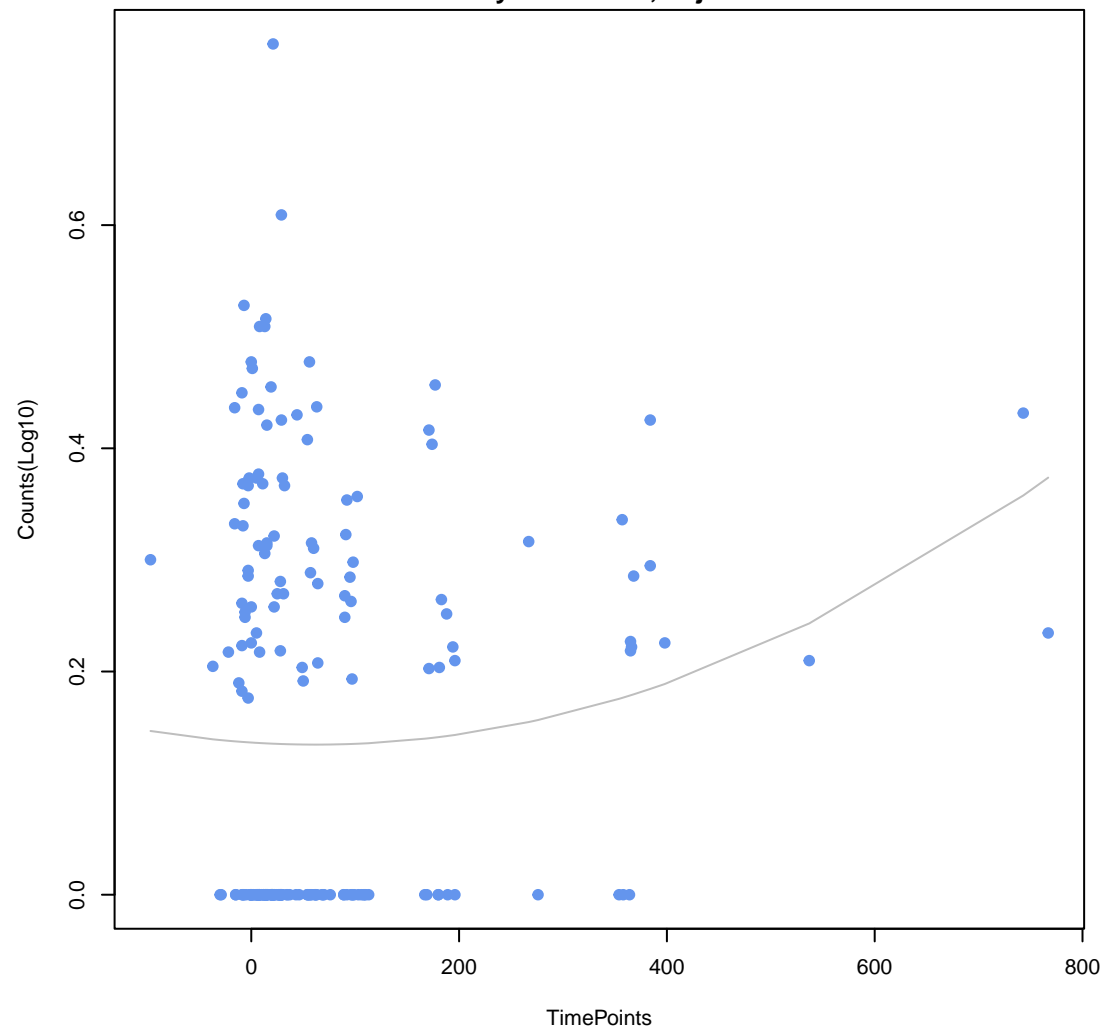
mdtM
ANOVA P=0.097, adj. ANOVA-P=0.459
Line vs. Poly F-P=0.0763, adj. F-P=0.628



Bifidobacterium adolescentis rpoB mutants conferring resistance to rifampicin
ANOVA P=0.0986, adj. ANOVA-P=0.459
Line vs. Poly F-P=0.0116, adj. F-P=0.31

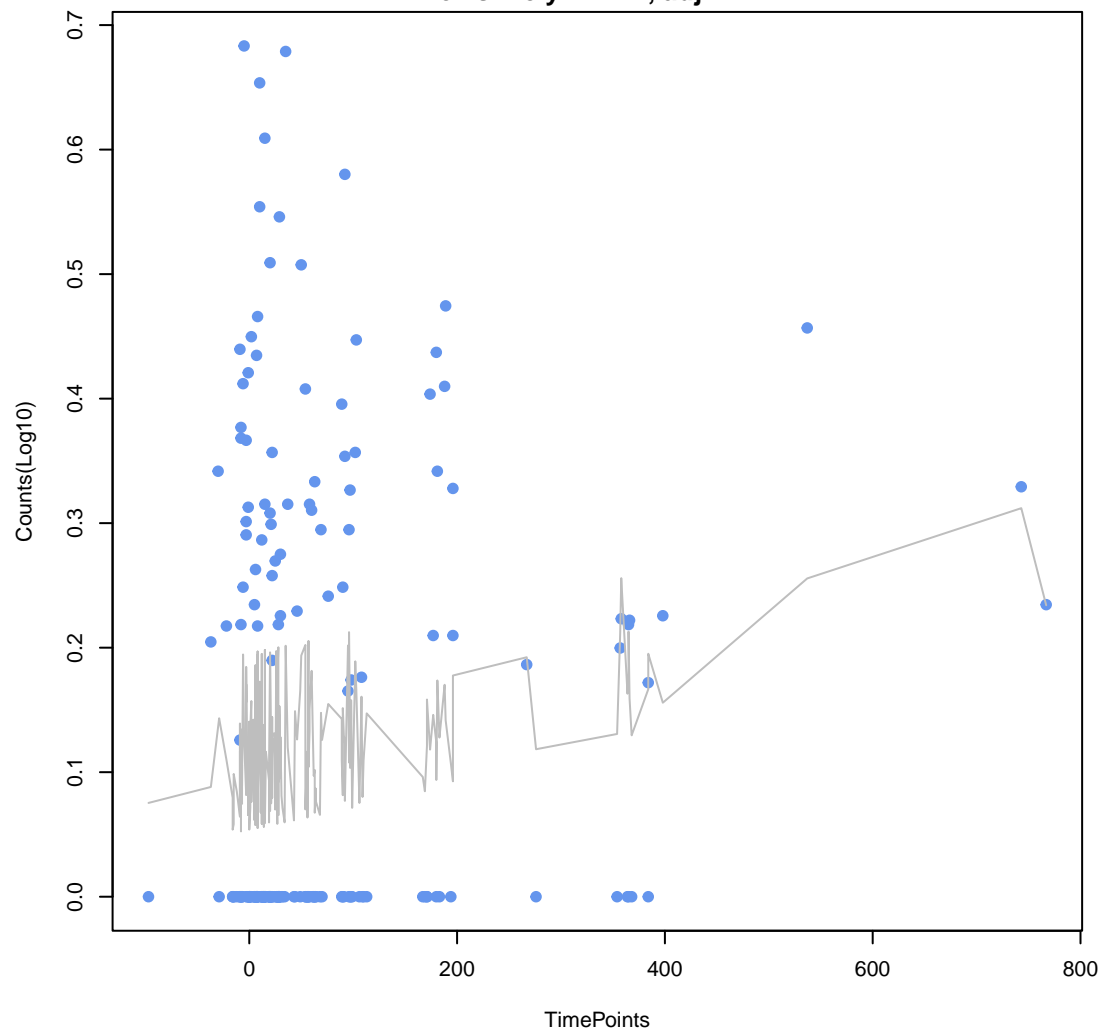


mdtH
ANOVA P=0.114, adj. ANOVA-P=0.495
Line vs. Poly F-P=0.252, adj. F-P=0.841



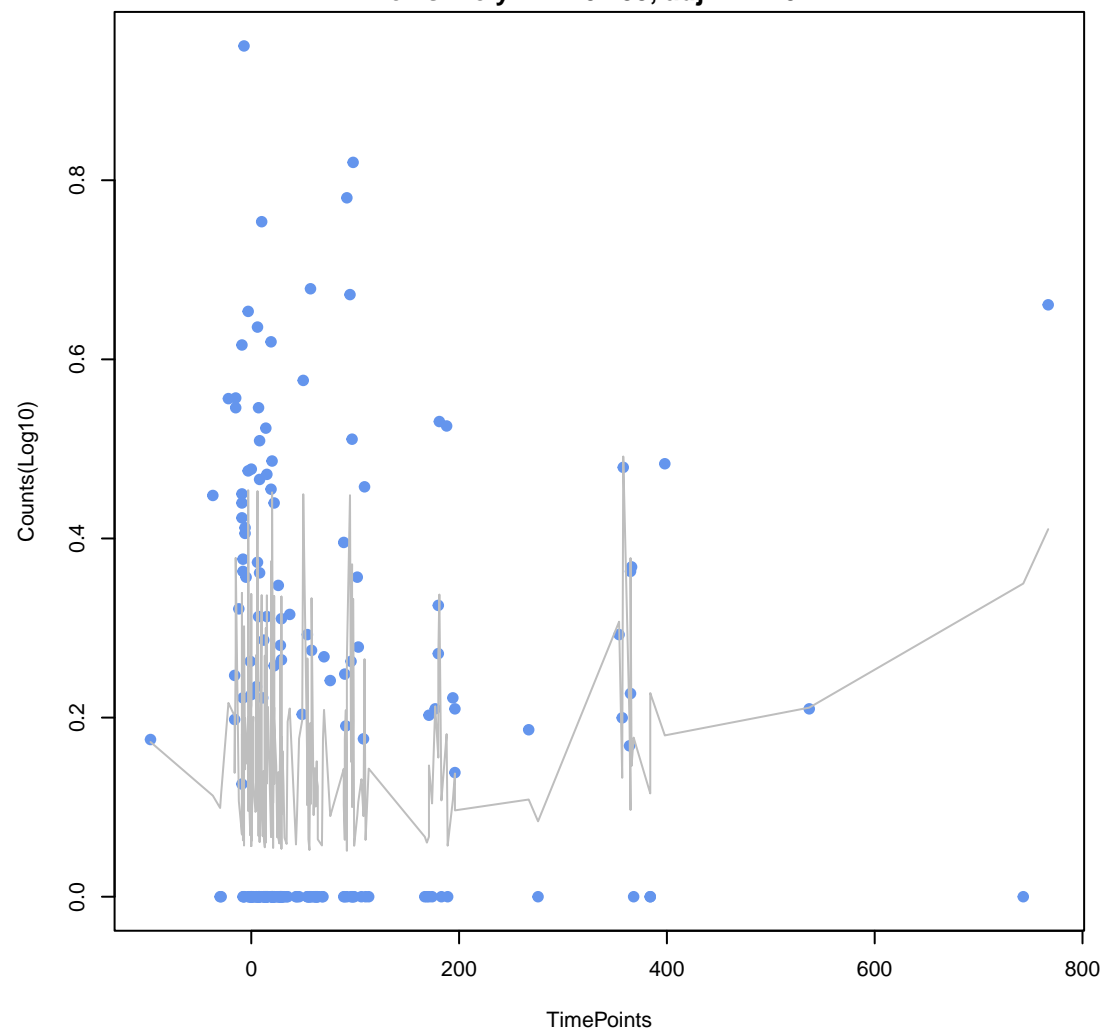
myrA

ANOVA P=0.12, adj. ANOVA-P=0.495
Line vs. Poly F-P=1, adj. F-P=1



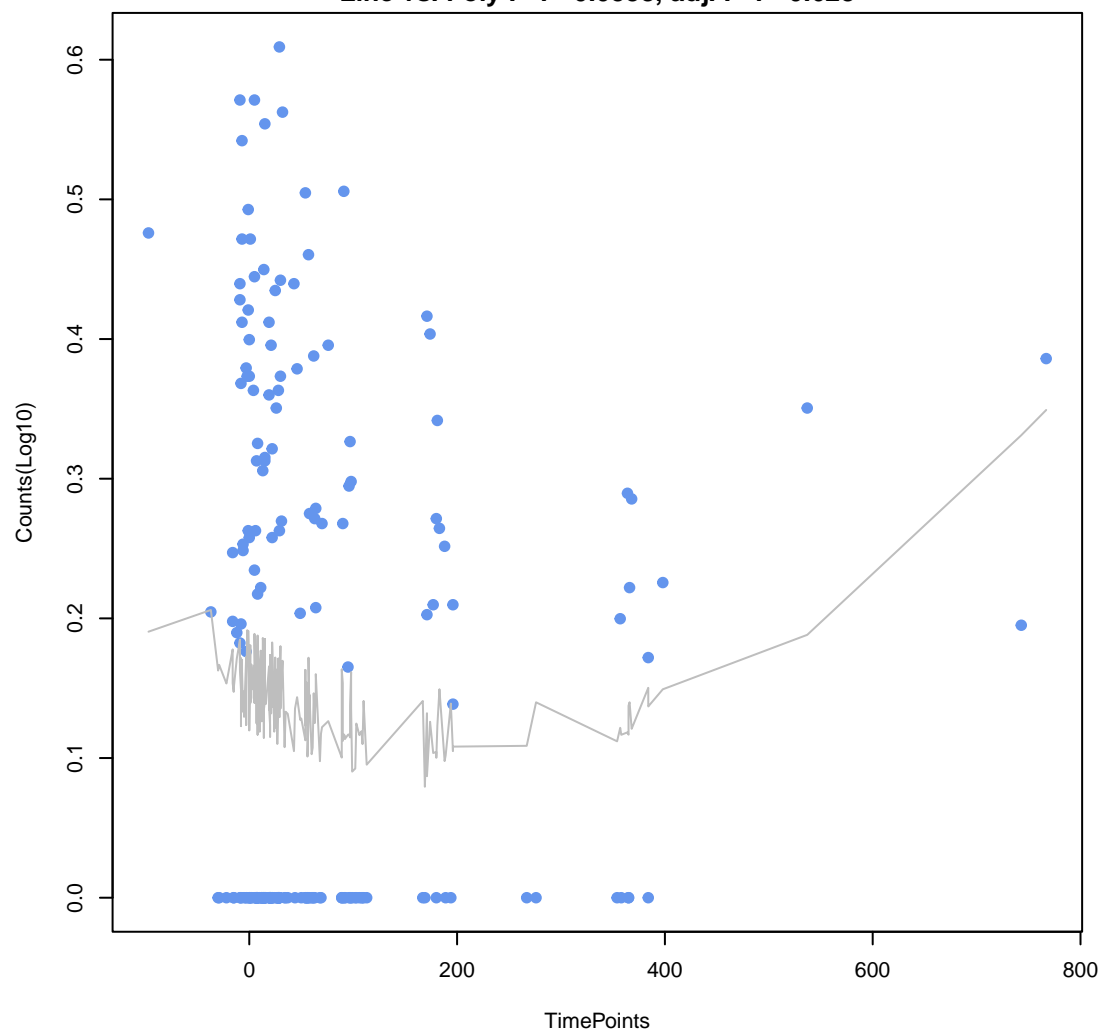
APH(6)-Ic

ANOVA P=0.12, adj. ANOVA-P=0.495
Line vs. Poly F-P=0.153, adj. F-P=0.777



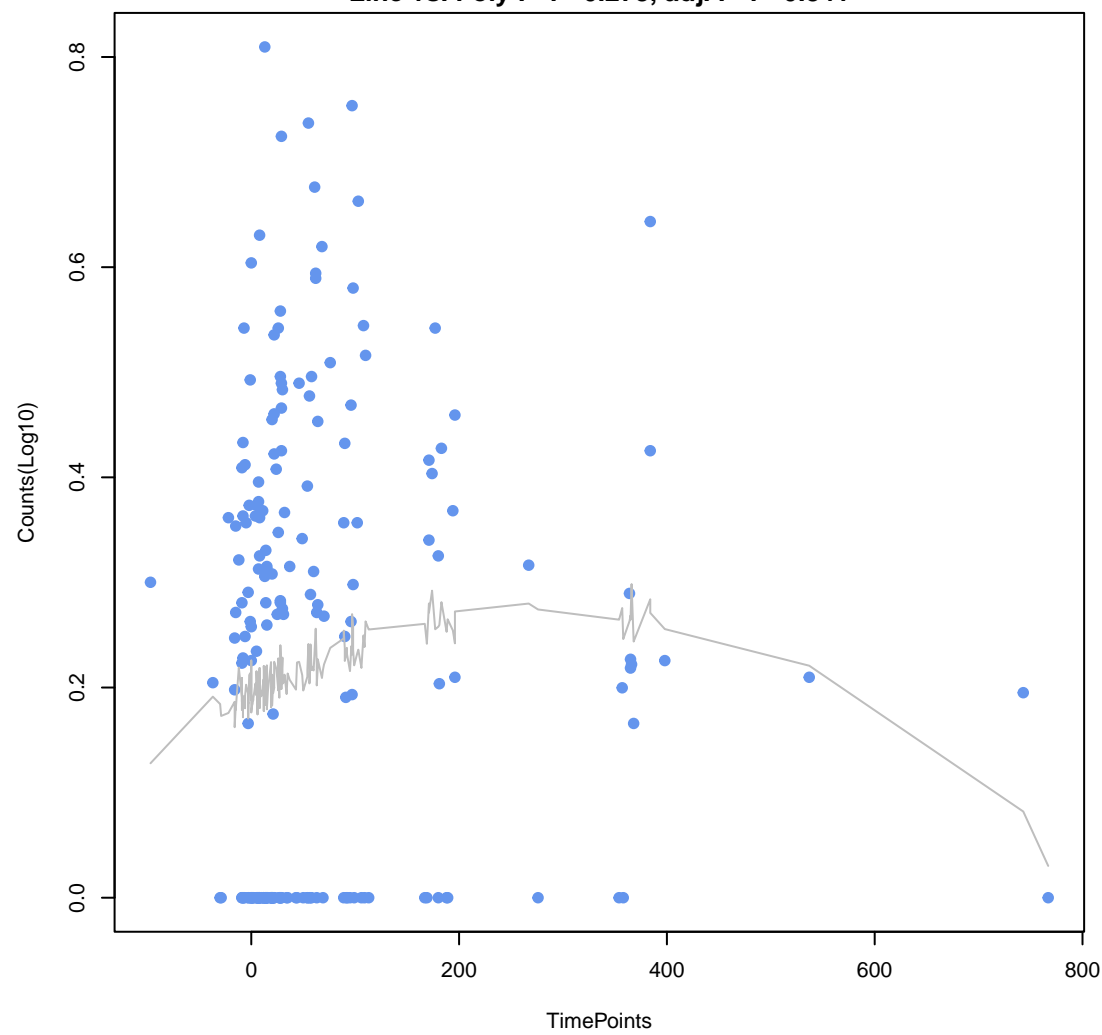
YojI

ANOVA P=0.139, adj. ANOVA-P=0.536
Line vs. Poly F-P=0.0538, adj. F-P=0.628



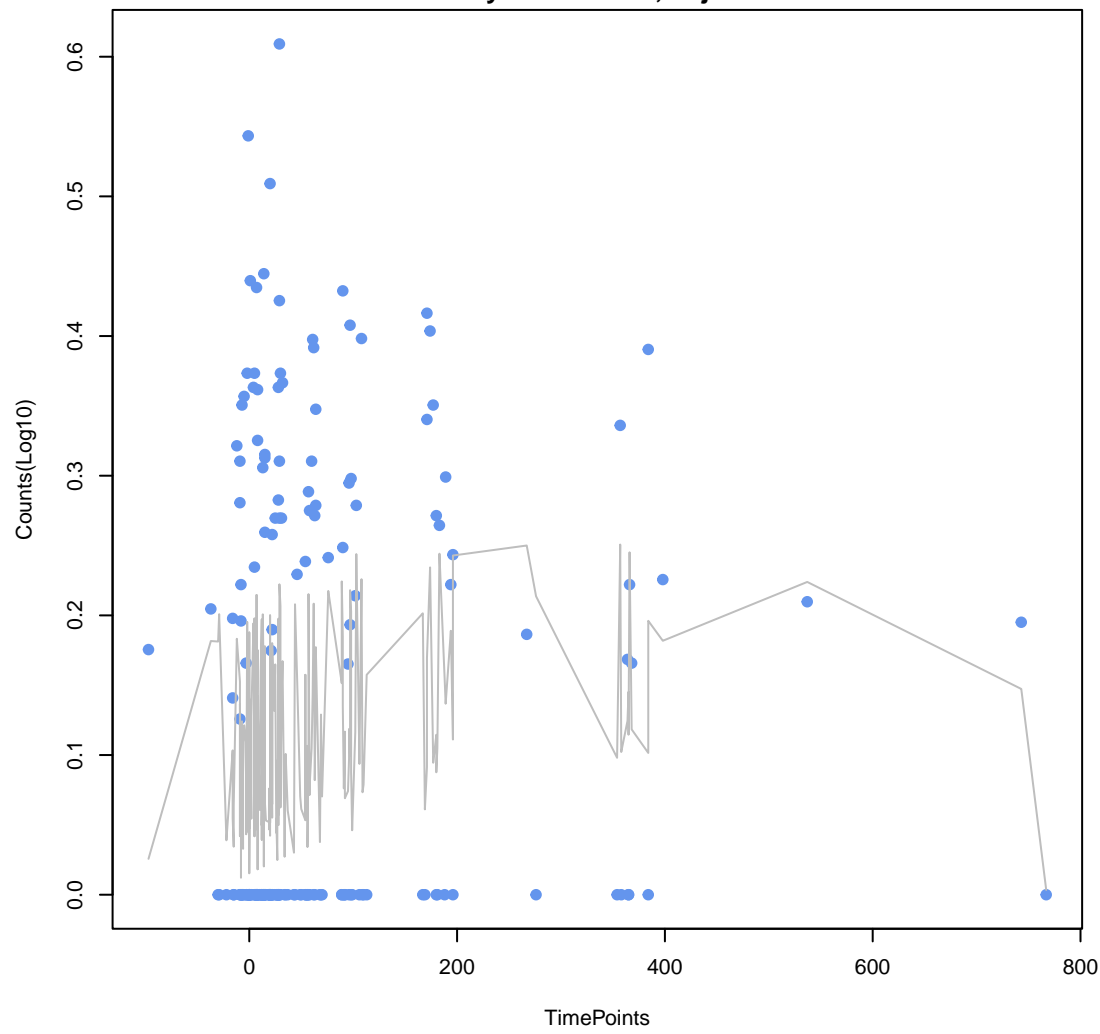
CRP

ANOVA P=0.145, adj. ANOVA-P=0.536
Line vs. Poly F-P=0.278, adj. F-P=0.841



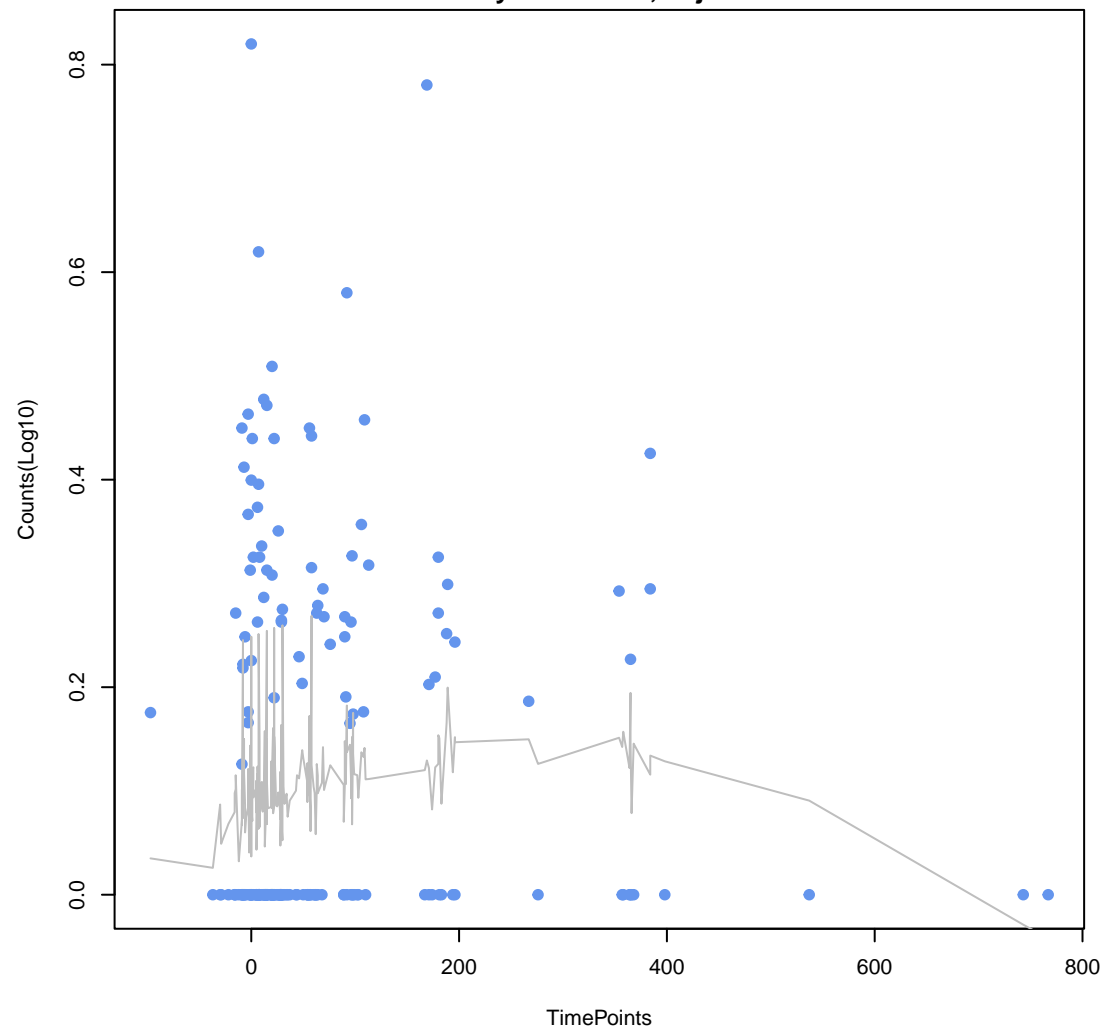
Escherichia coli soxS with mutation conferring antibiotic resistance

ANOVA P=0.145, adj. ANOVA-P=0.536
Line vs. Poly F-P=0.0648, adj. F-P=0.628



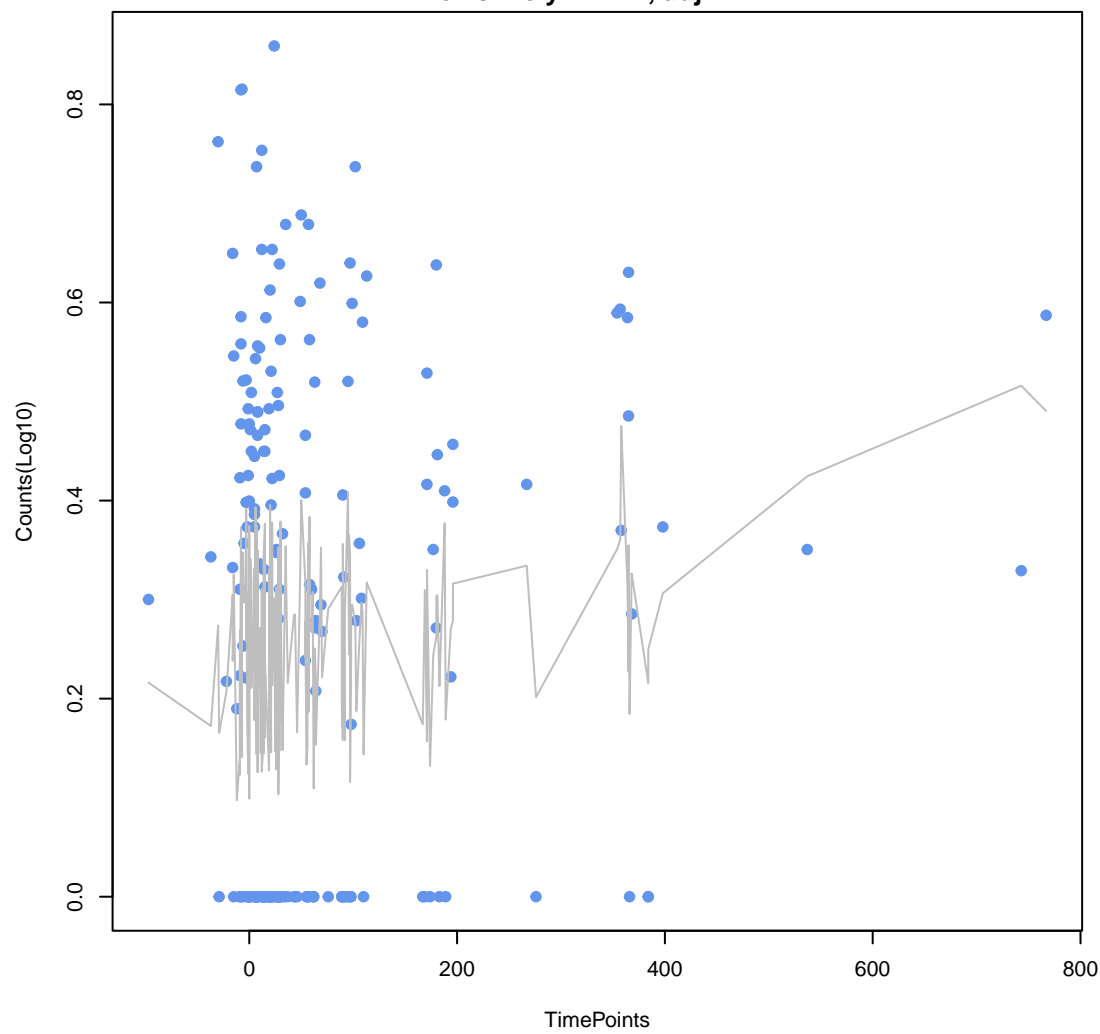
farB

ANOVA P=0.15, adj. ANOVA-P=0.536
Line vs. Poly F-P=0.017, adj. F-P=0.363



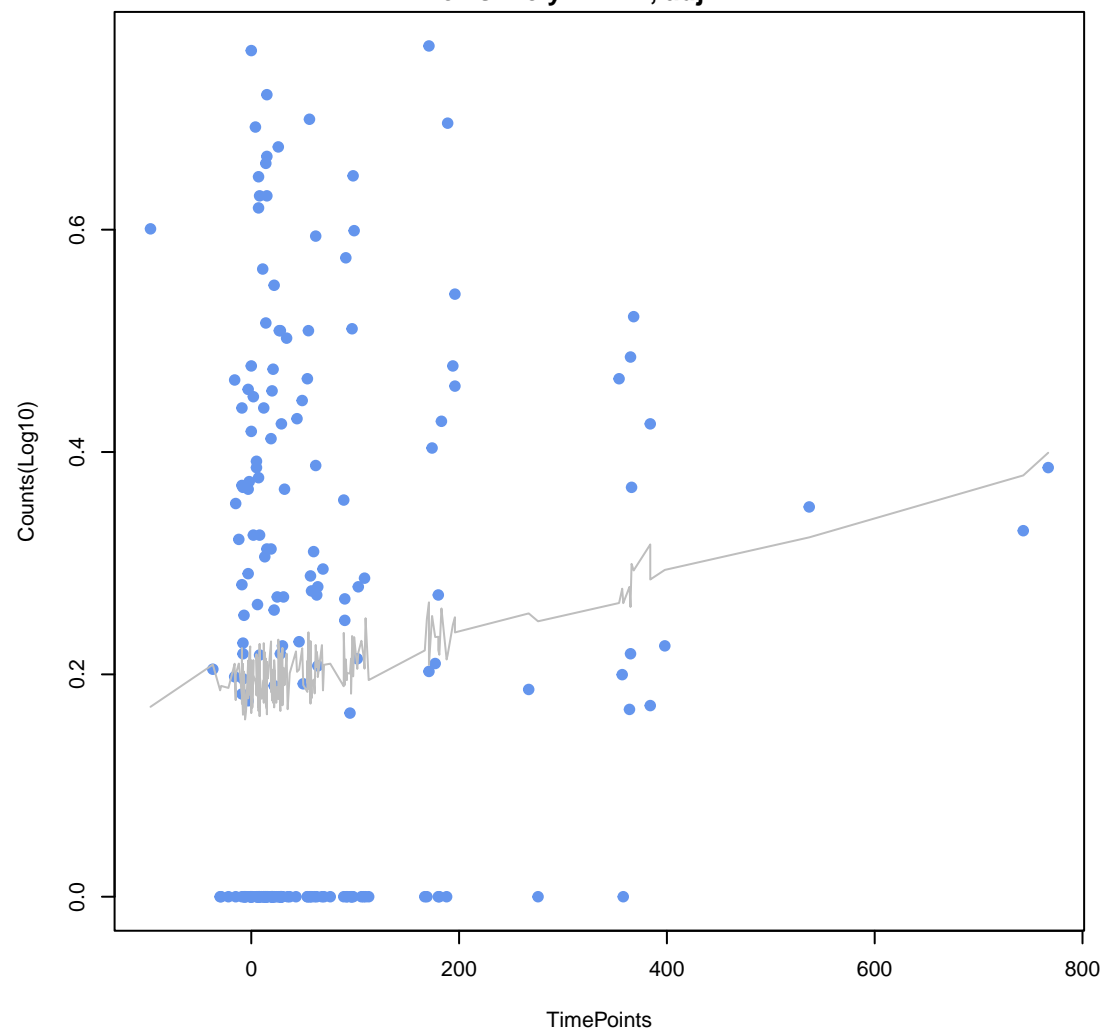
ANA-1

ANOVA P=0.169, adj. ANOVA-P=0.584
Line vs. Poly F-P=1, adj. F-P=1

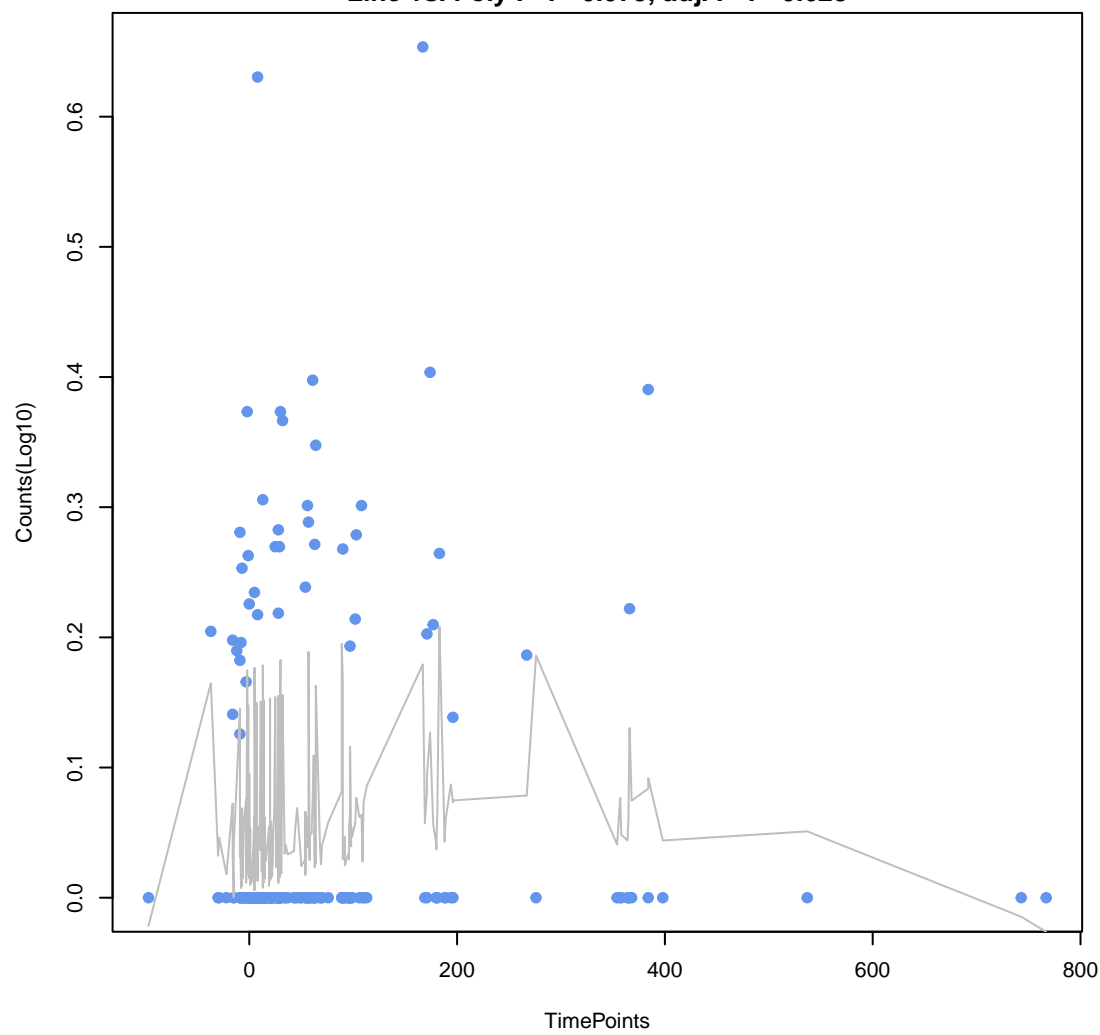


mdtF

ANOVA P=0.185, adj. ANOVA-P=0.61
Line vs. Poly F-P=1, adj. F-P=1

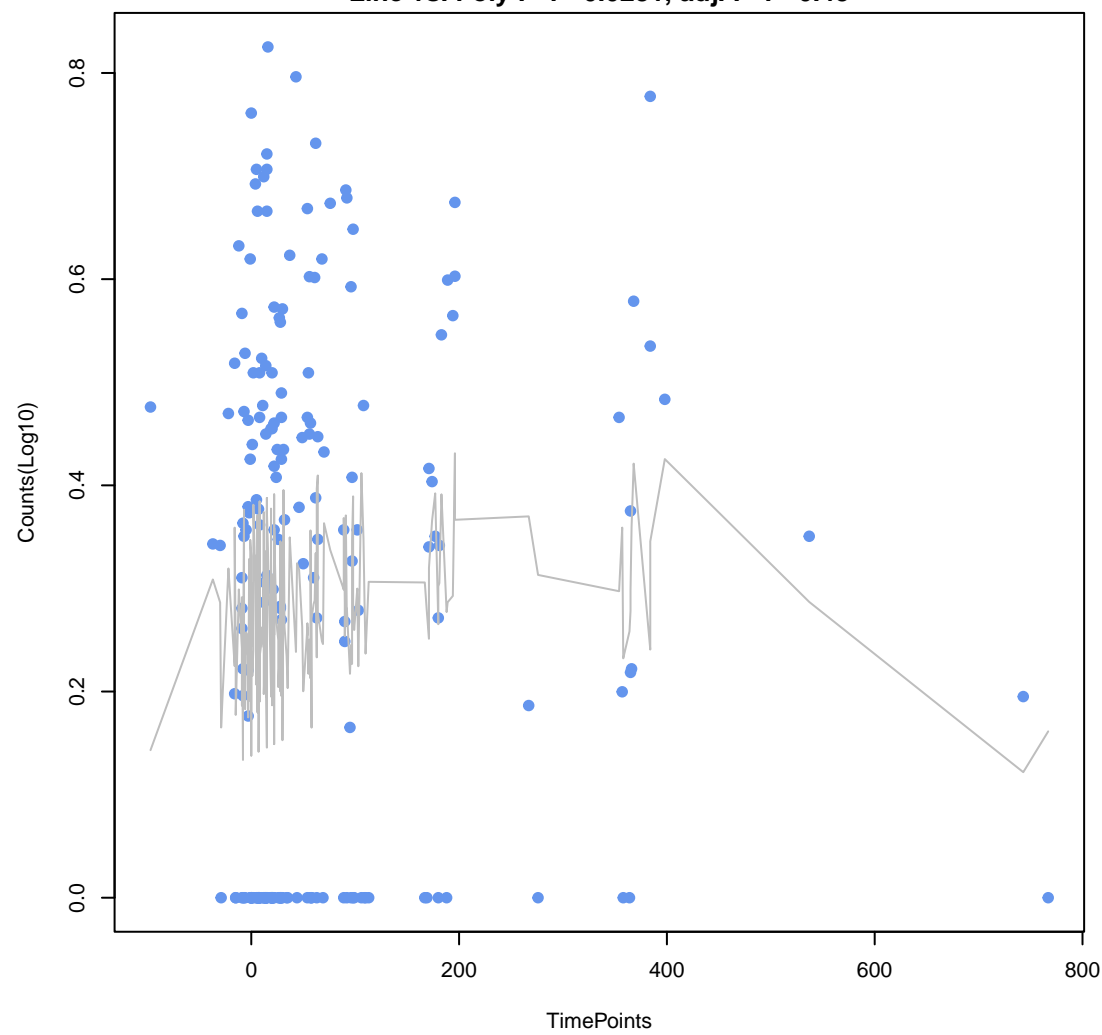


Escherichia coli GlpT with mutation conferring resistance to fosfomycin
ANOVA P=0.188, adj. ANOVA-P=0.61
Line vs. Poly F-P=0.073, adj. F-P=0.628



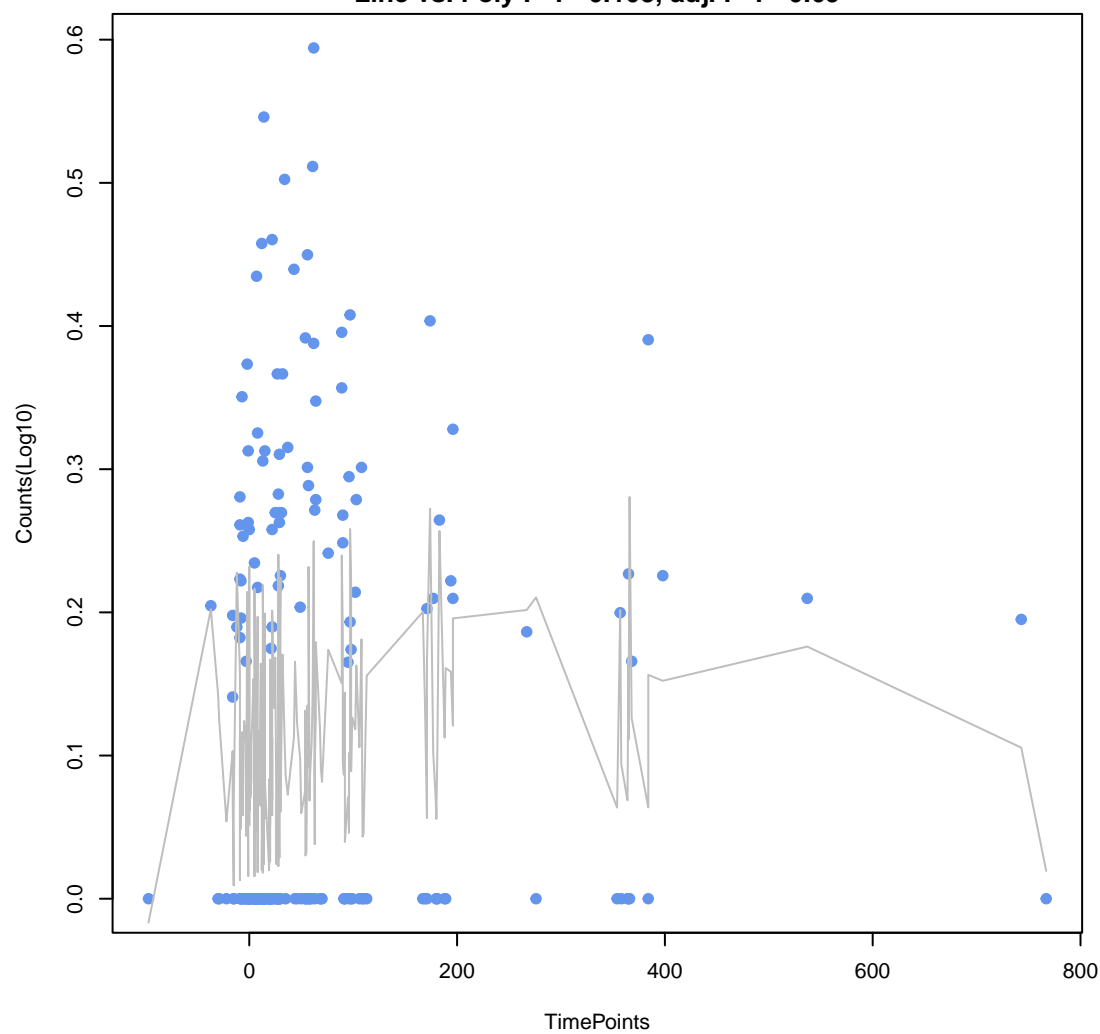
acrB

ANOVA P=0.195, adj. ANOVA-P=0.615
Line vs. Poly F-P=0.0281, adj. F-P=0.43



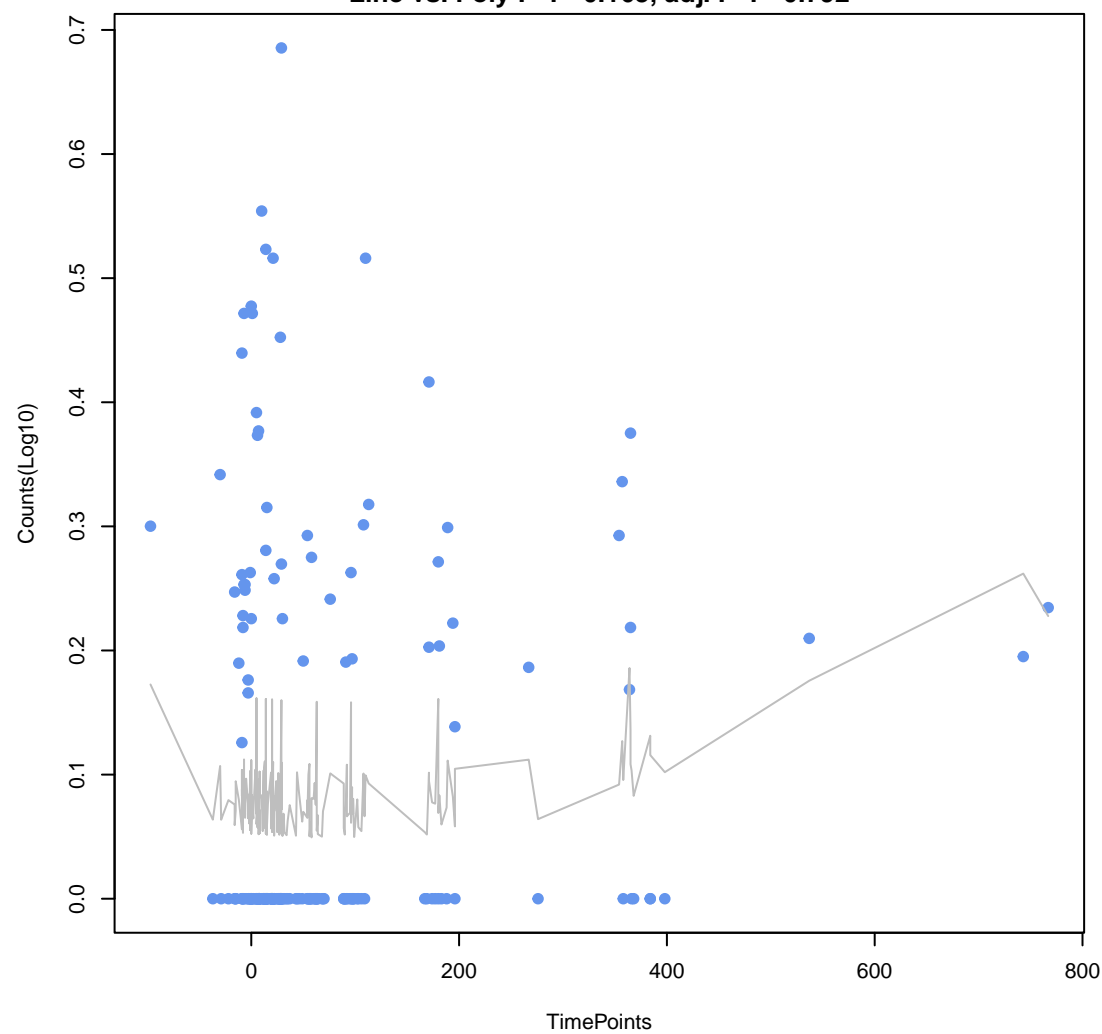
H-NS

ANOVA P=0.206, adj. ANOVA-P=0.63
Line vs. Poly F-P=0.103, adj. F-P=0.69



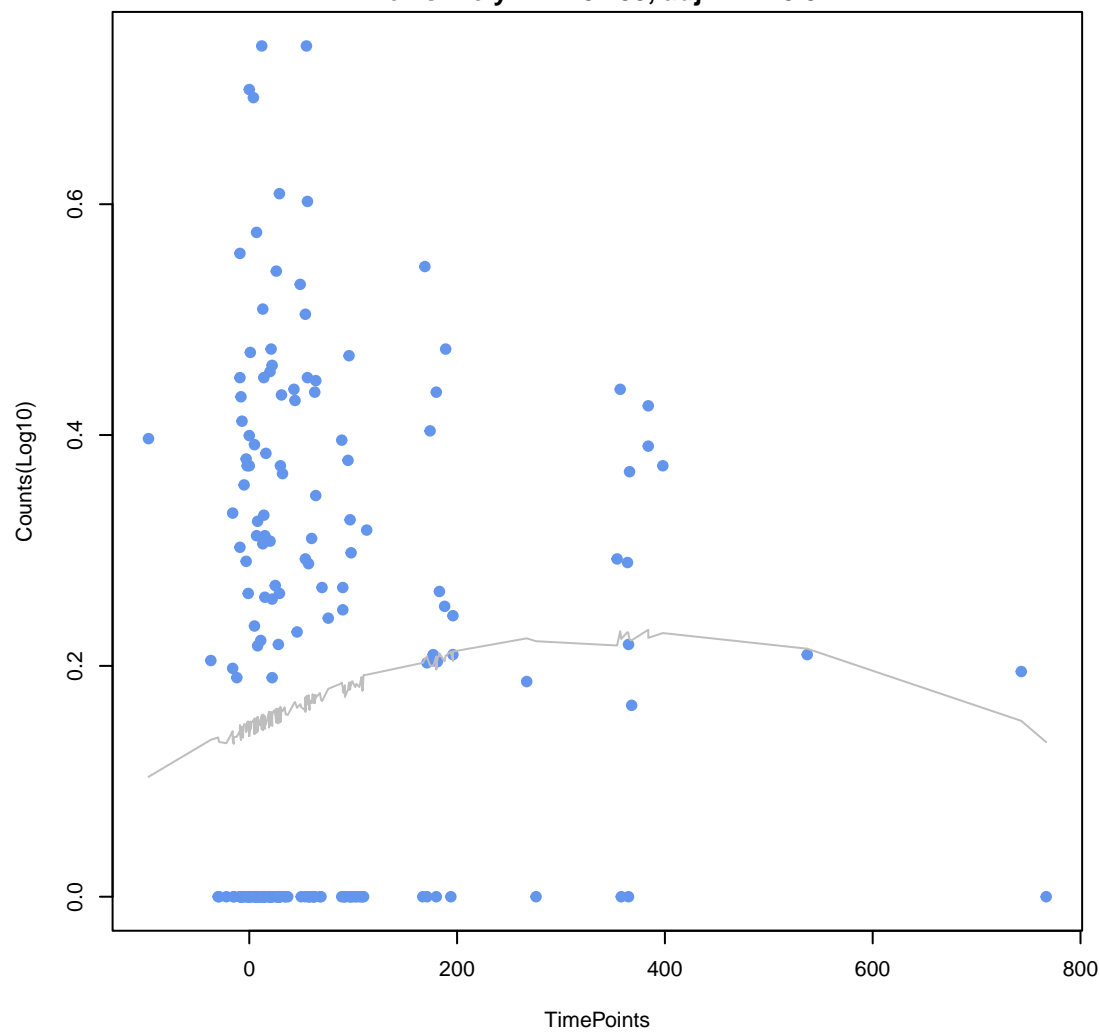
Streptomyces rimosus otr(A)

ANOVA P=0.214, adj. ANOVA-P=0.636
Line vs. Poly F-P=0.163, adj. F-P=0.792



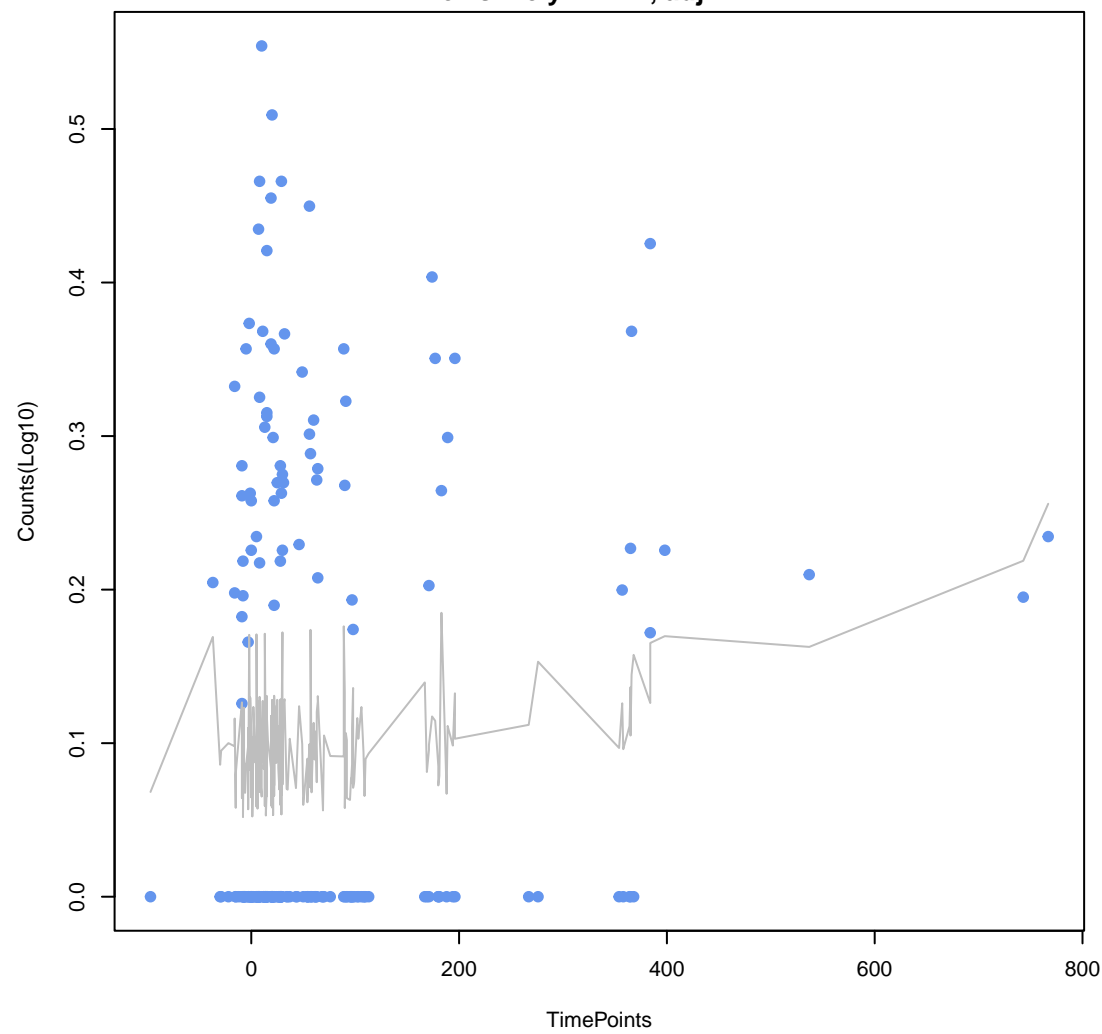
baeS

ANOVA P=0.235, adj. ANOVA-P=0.681
Line vs. Poly F-P=0.238, adj. F-P=0.841



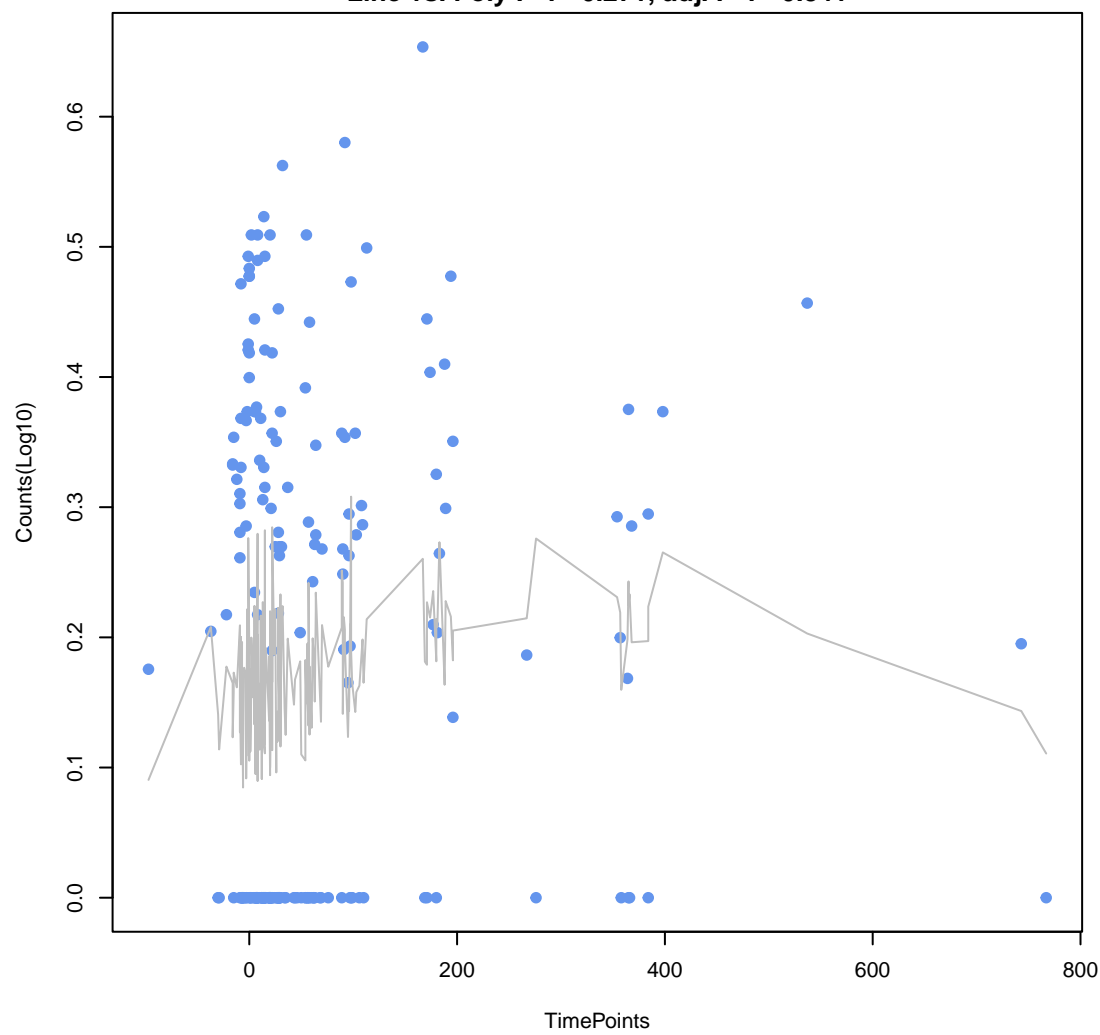
gadX

ANOVA P=0.262, adj. ANOVA-P=0.705
Line vs. Poly F-P=1, adj. F-P=1



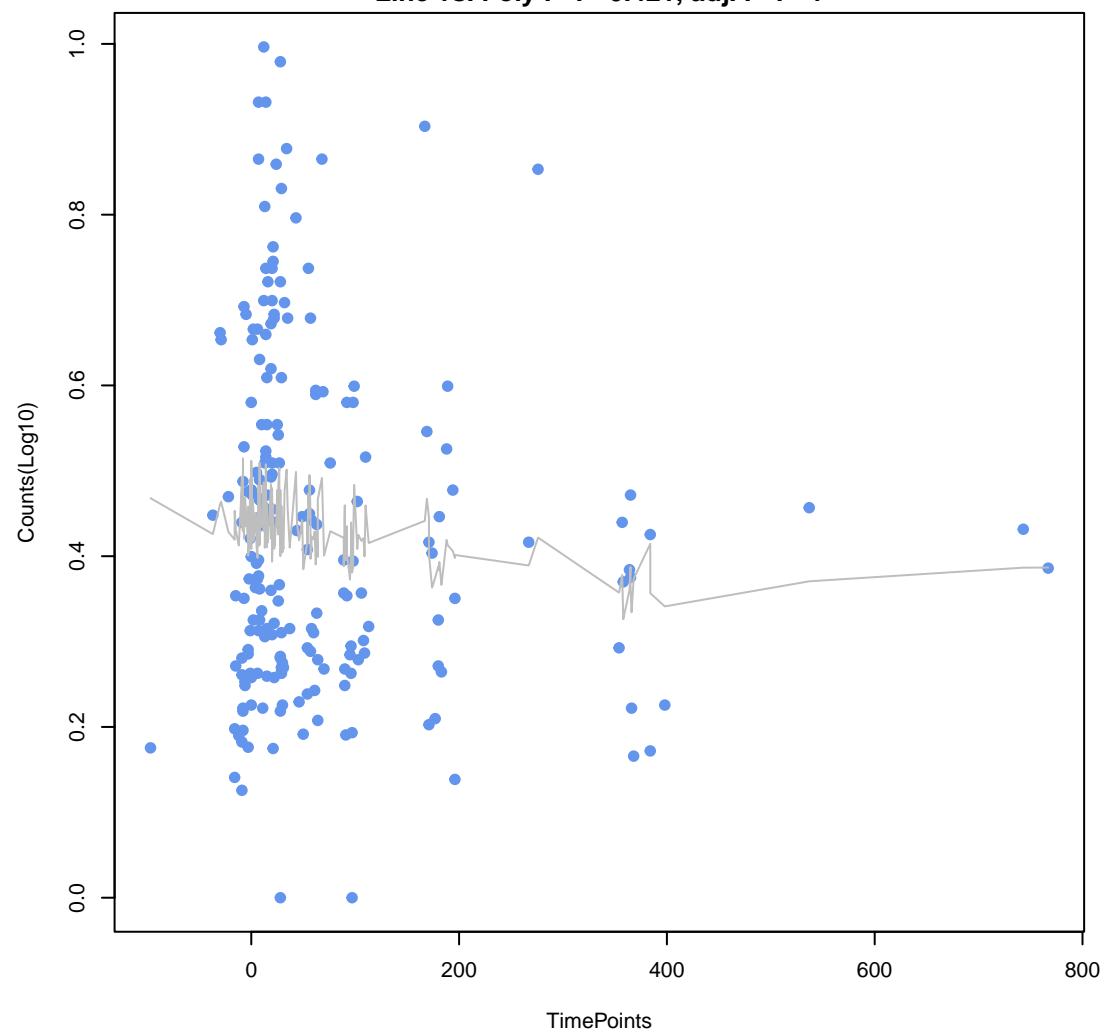
mdtG

ANOVA P=0.265, adj. ANOVA-P=0.705
Line vs. Poly F-P=0.271, adj. F-P=0.841



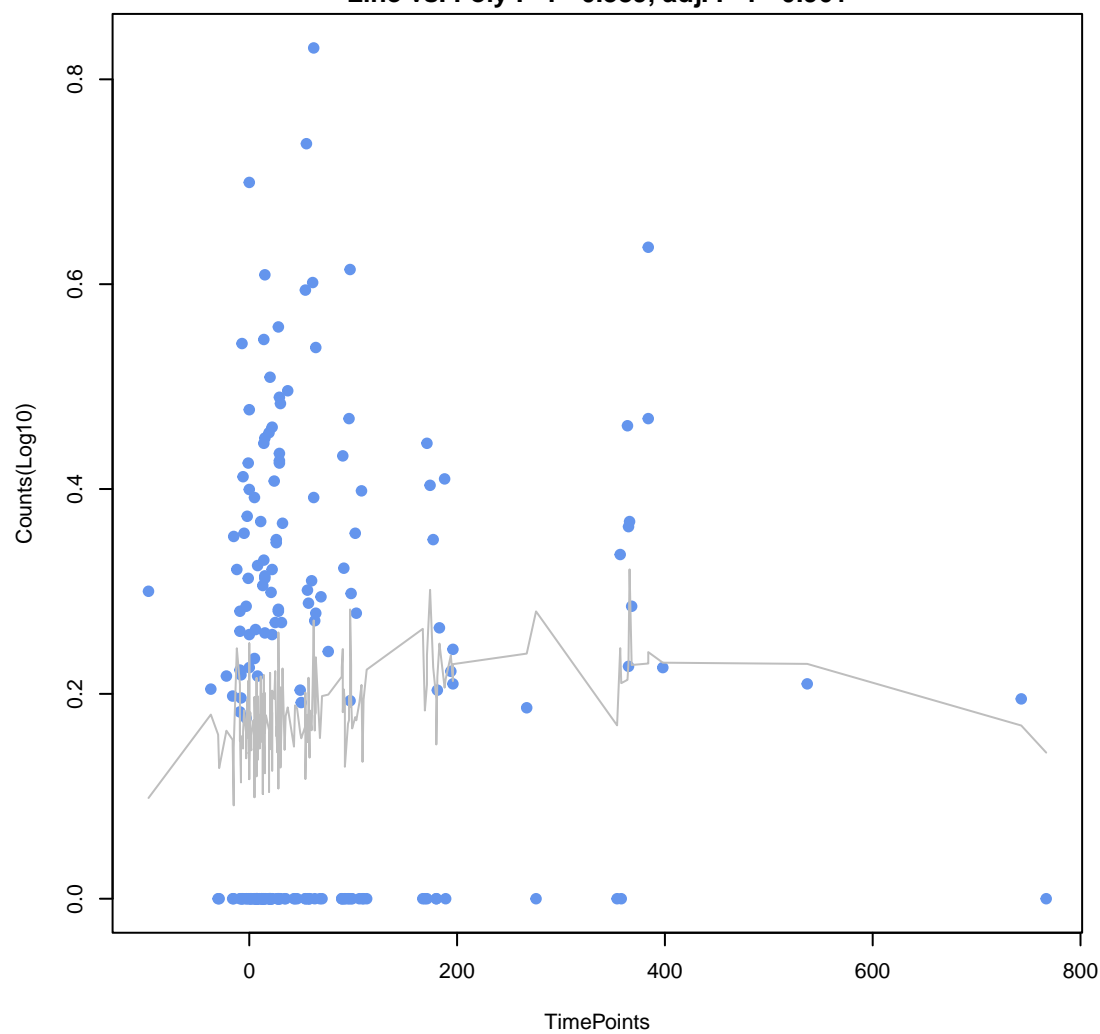
tet(O)

ANOVA P=0.277, adj. ANOVA-P=0.705
Line vs. Poly F-P=0.421, adj. F-P=1



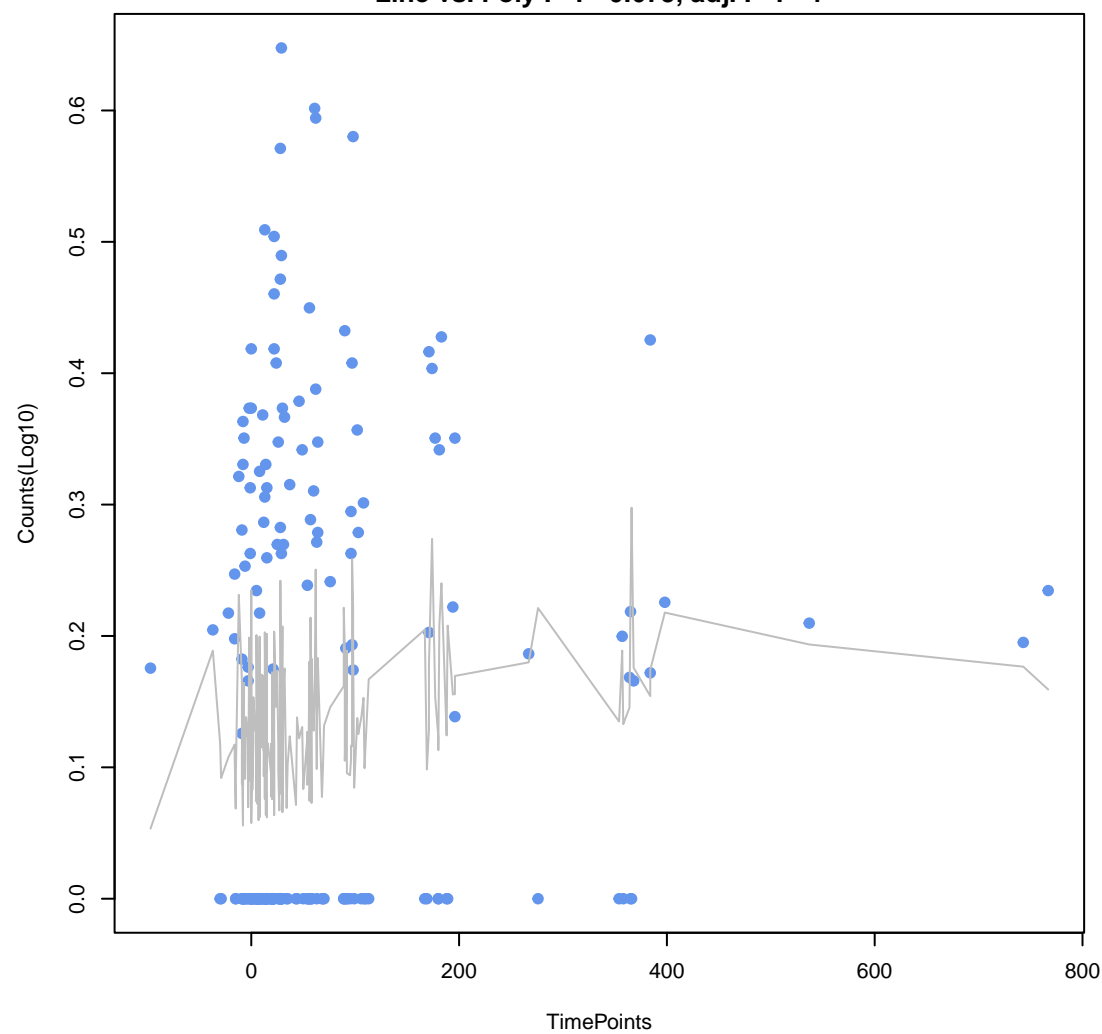
baeR

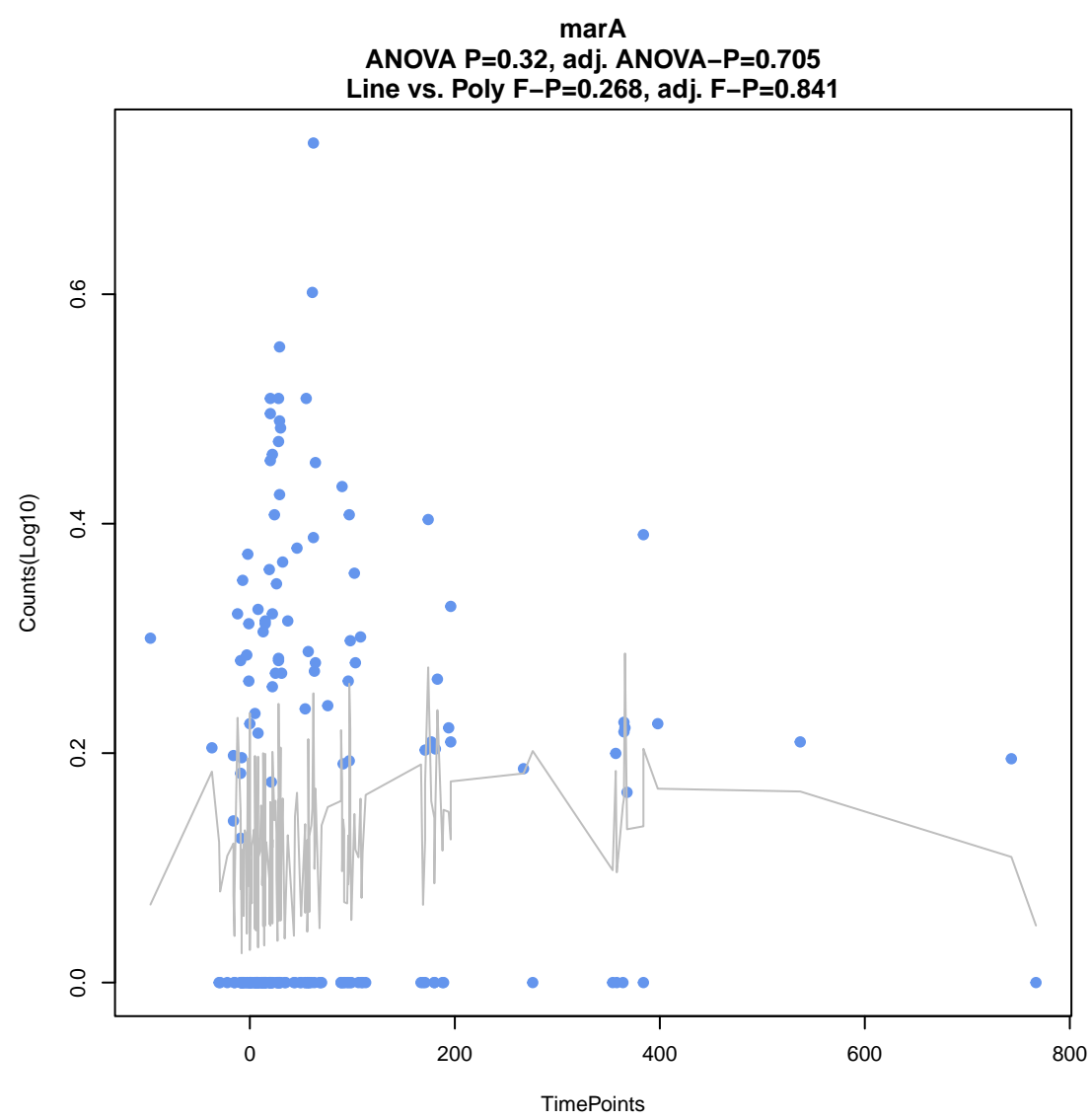
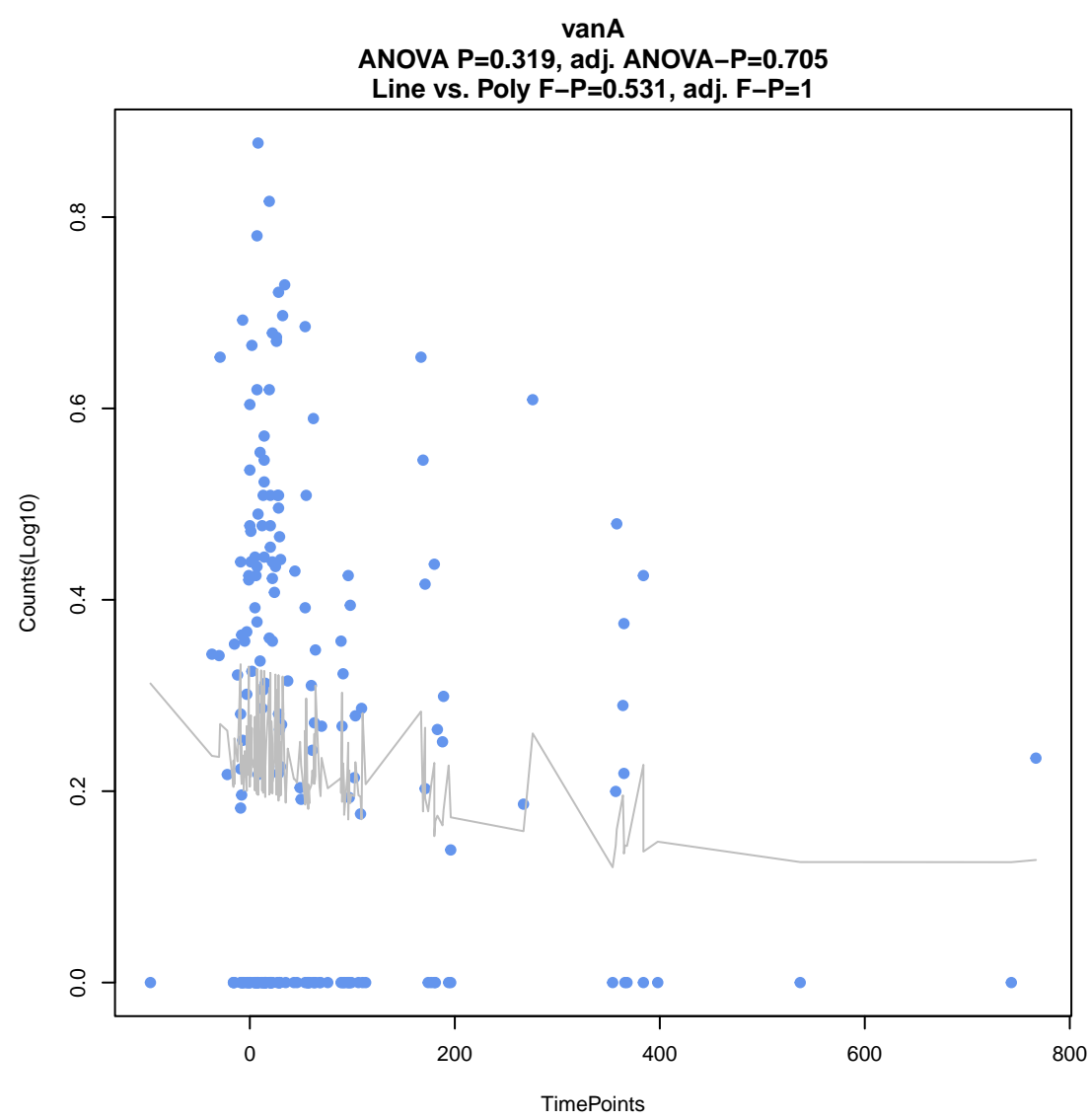
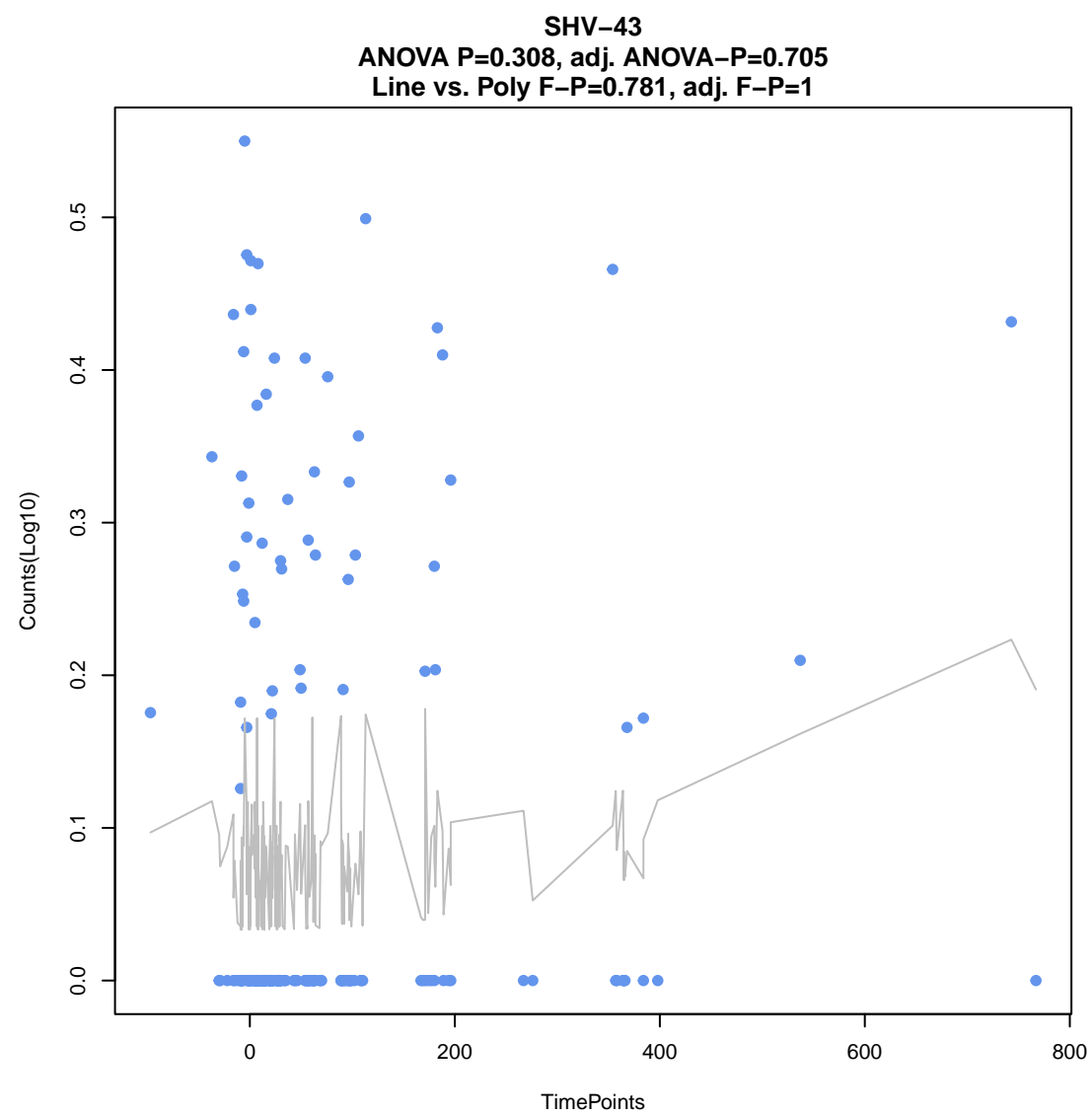
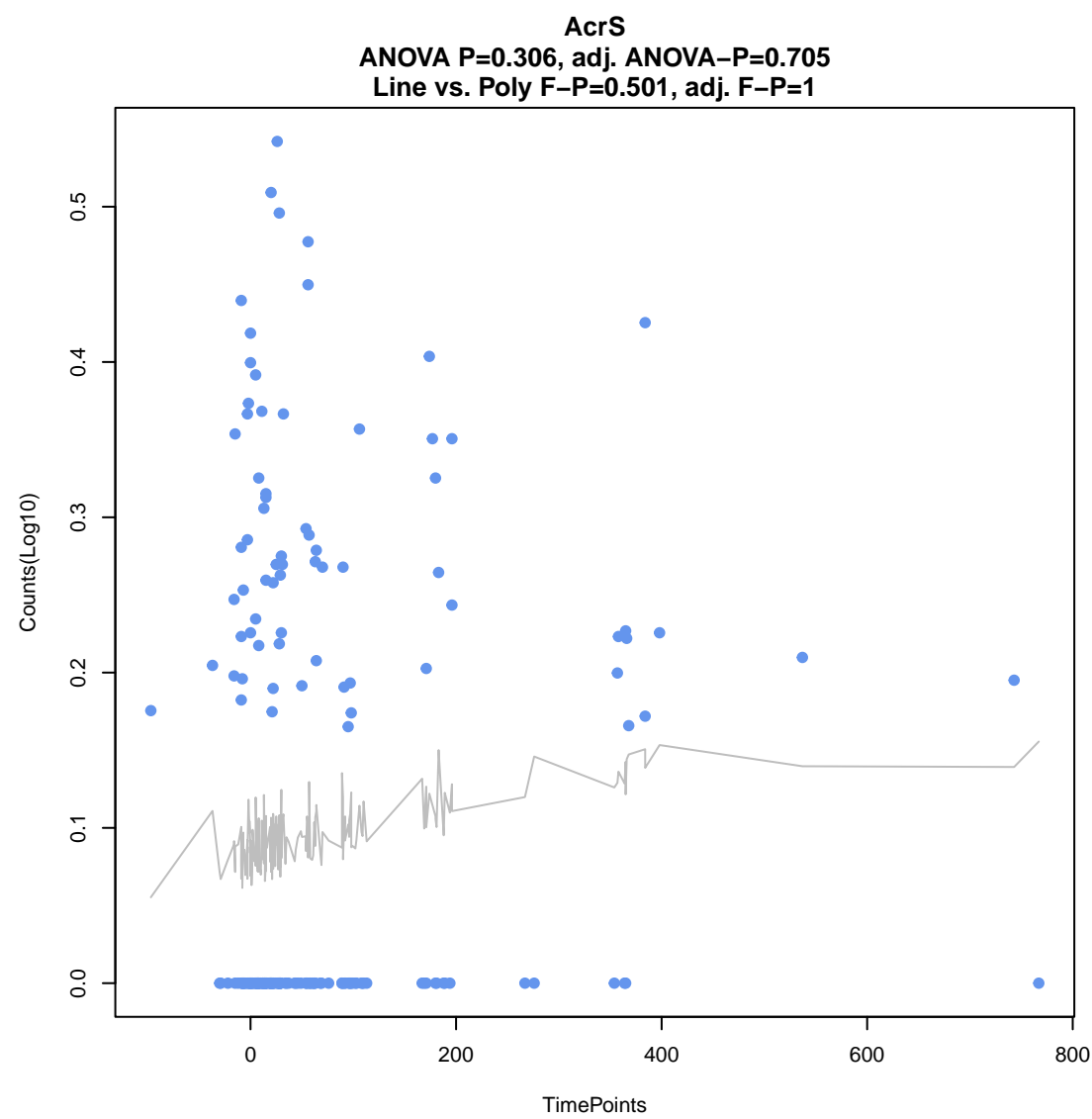
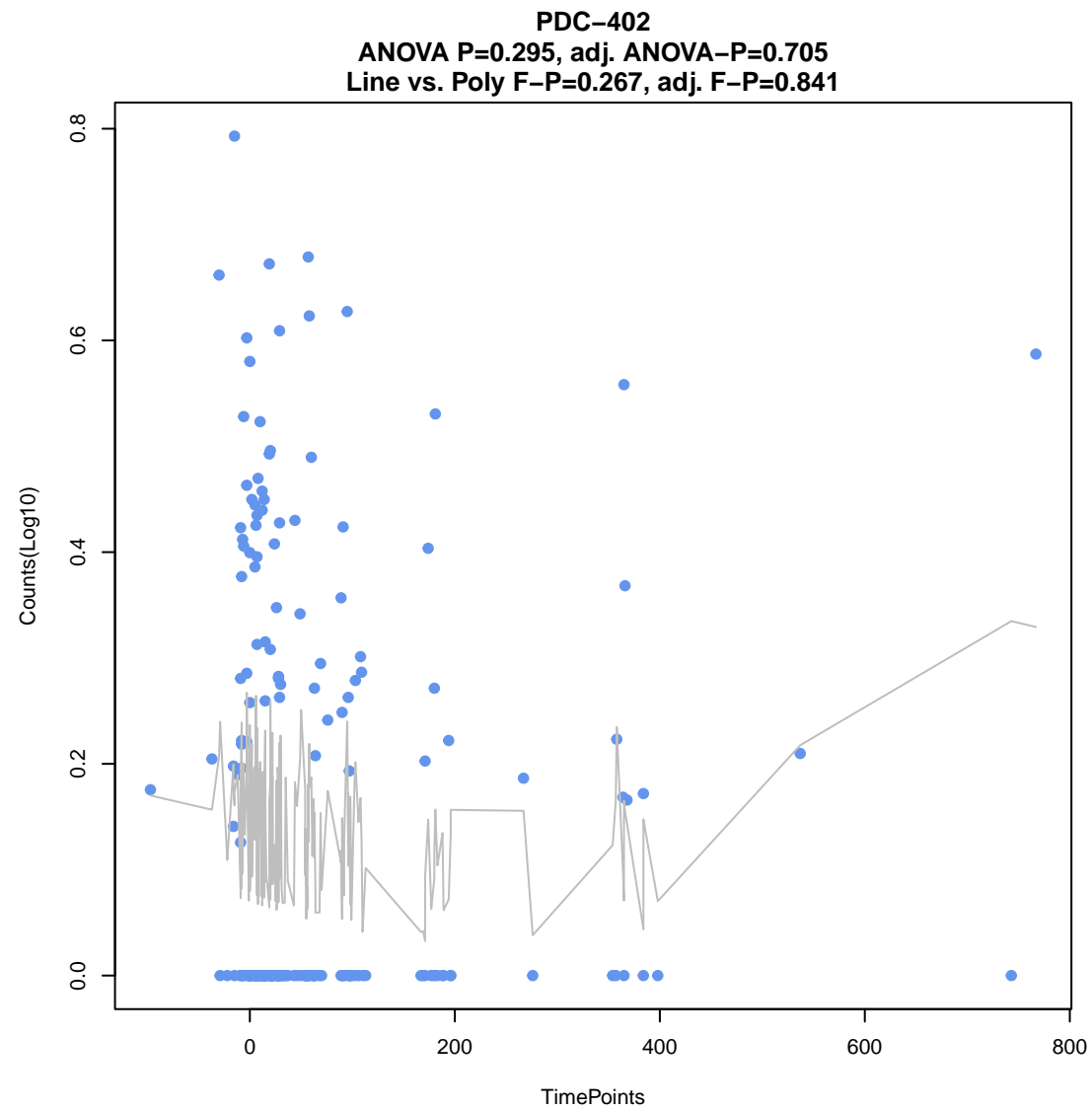
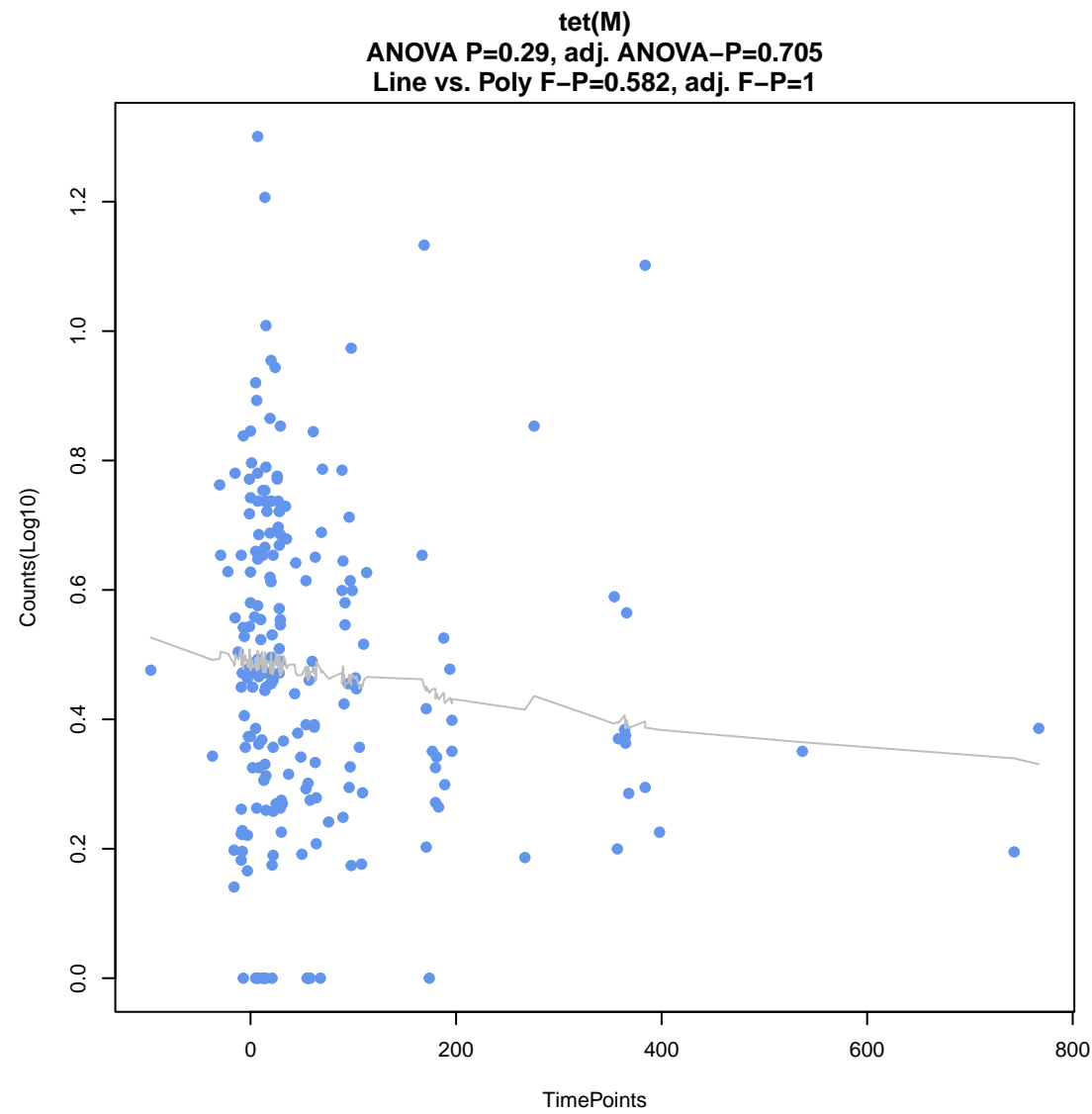
ANOVA P=0.278, adj. ANOVA-P=0.705
Line vs. Poly F-P=0.389, adj. F-P=0.961



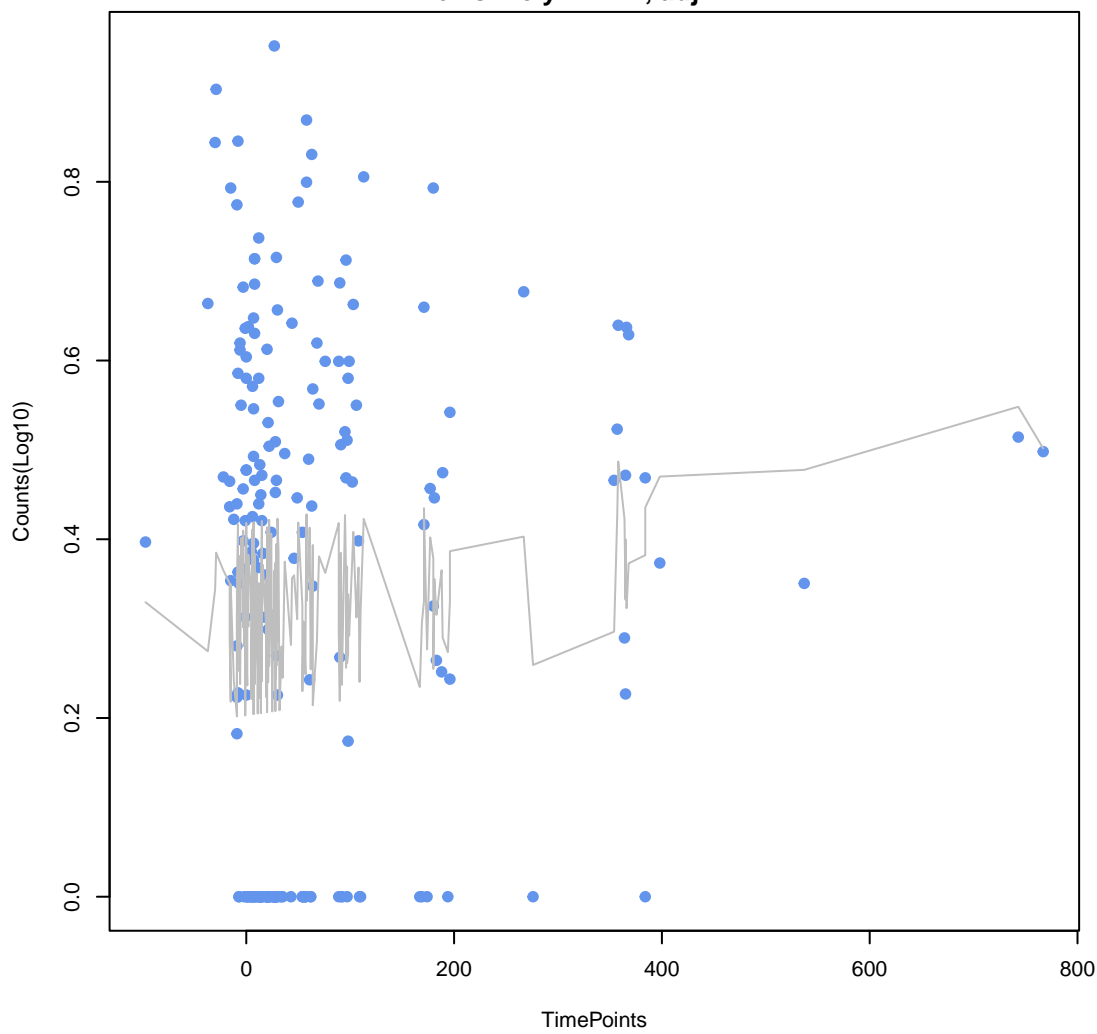
emrR

ANOVA P=0.289, adj. ANOVA-P=0.705
Line vs. Poly F-P=0.675, adj. F-P=1

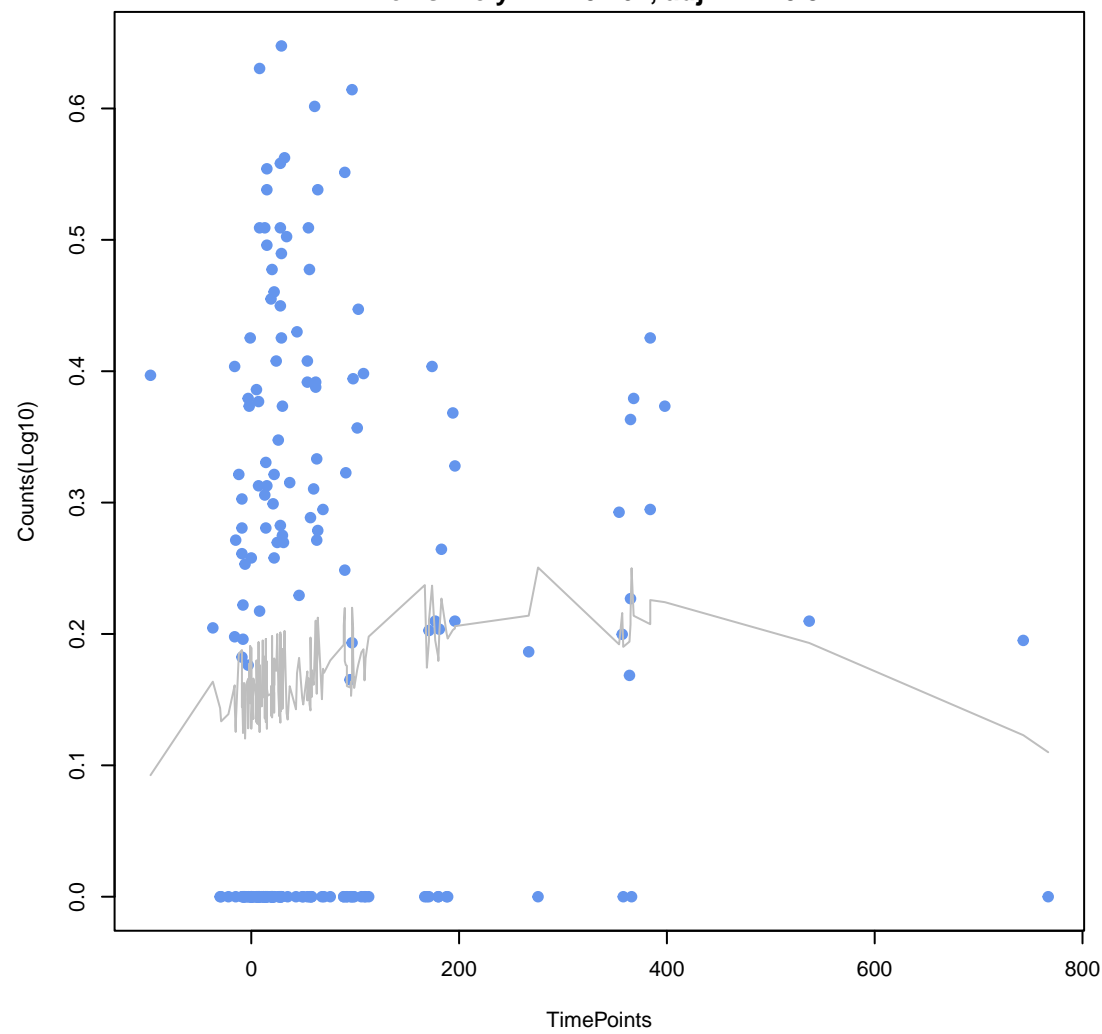




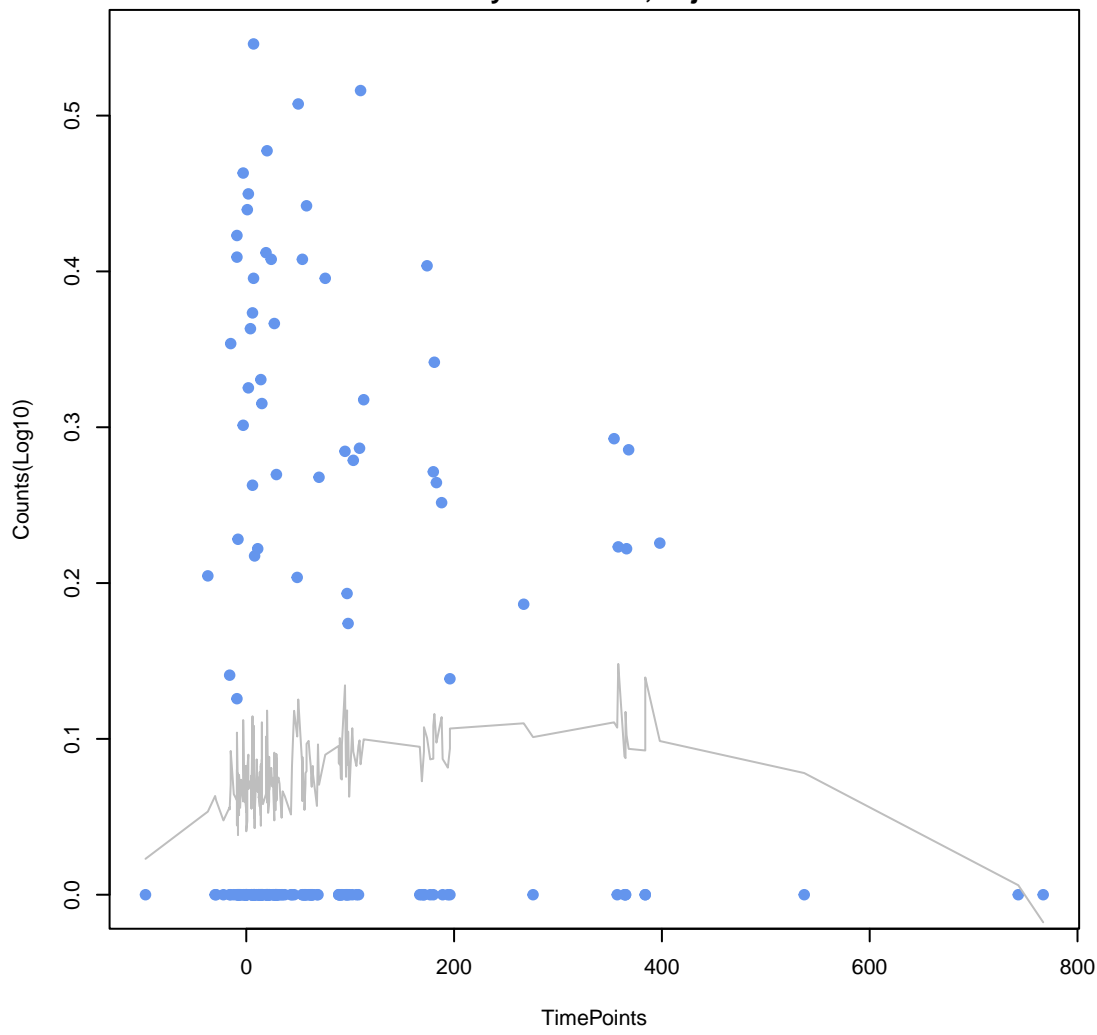
vanI
ANOVA P=0.335, adj. ANOVA-P=0.705
Line vs. Poly F-P=1, adj. F-P=1



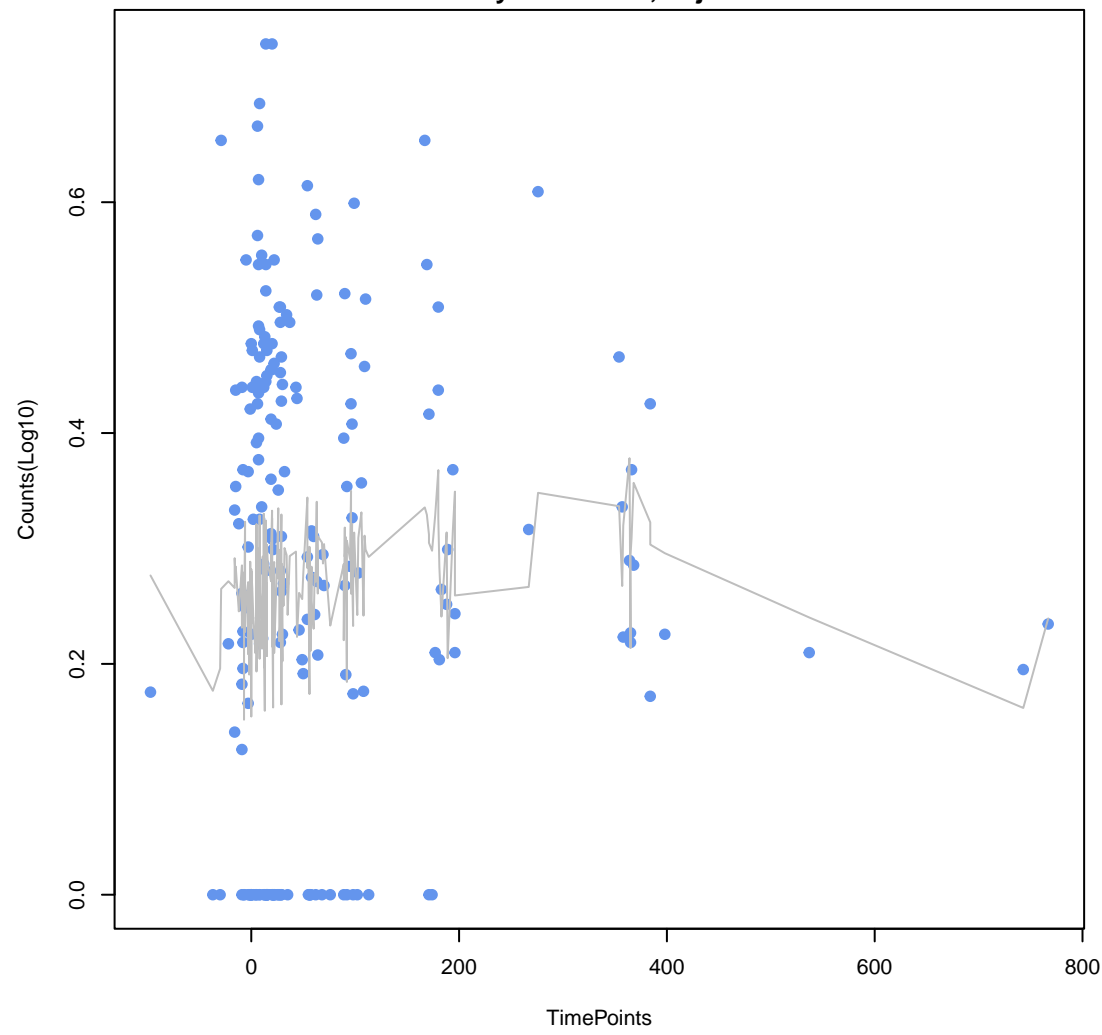
PmrF
ANOVA P=0.338, adj. ANOVA-P=0.705
Line vs. Poly F-P=0.261, adj. F-P=0.841



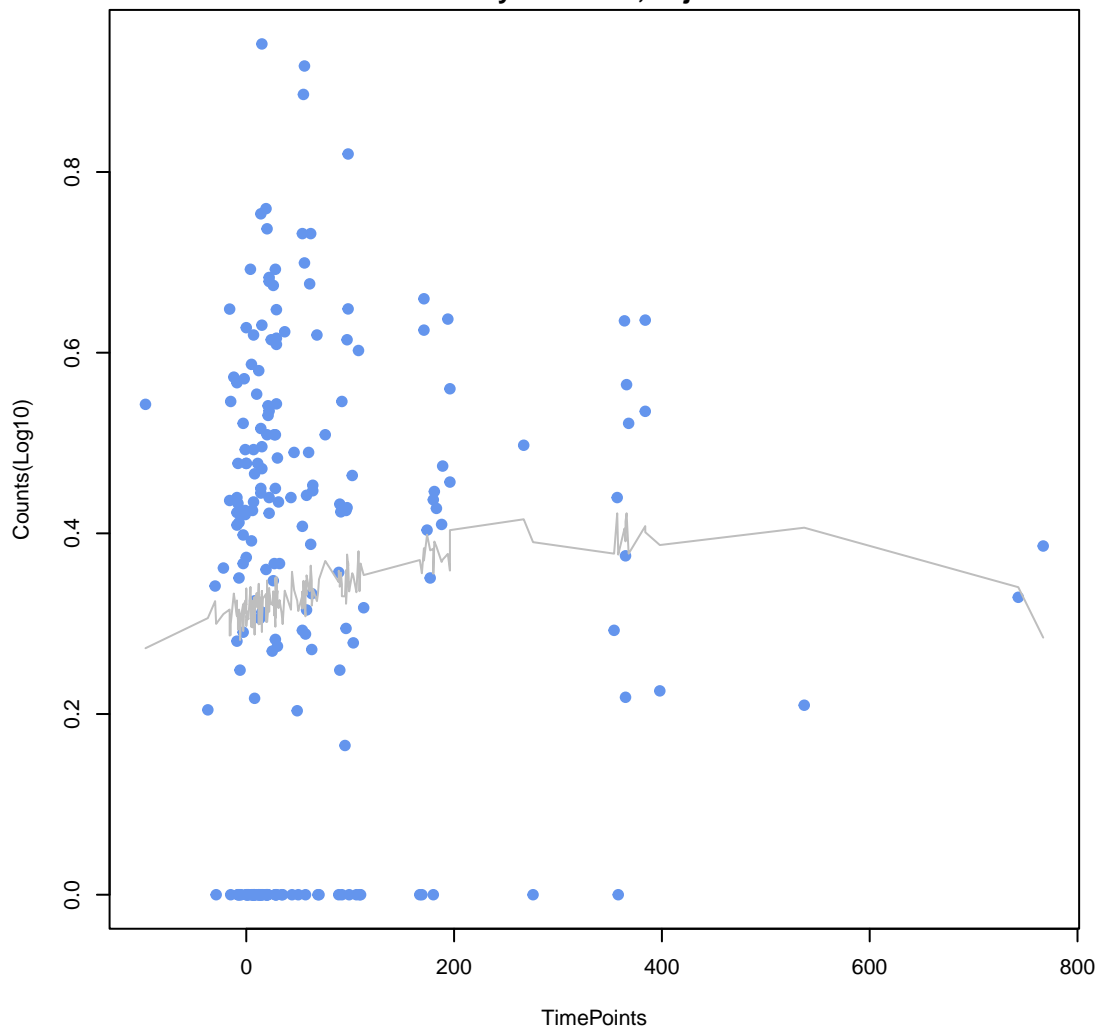
mtrD
ANOVA P=0.342, adj. ANOVA-P=0.705
Line vs. Poly F-P=0.171, adj. F-P=0.797



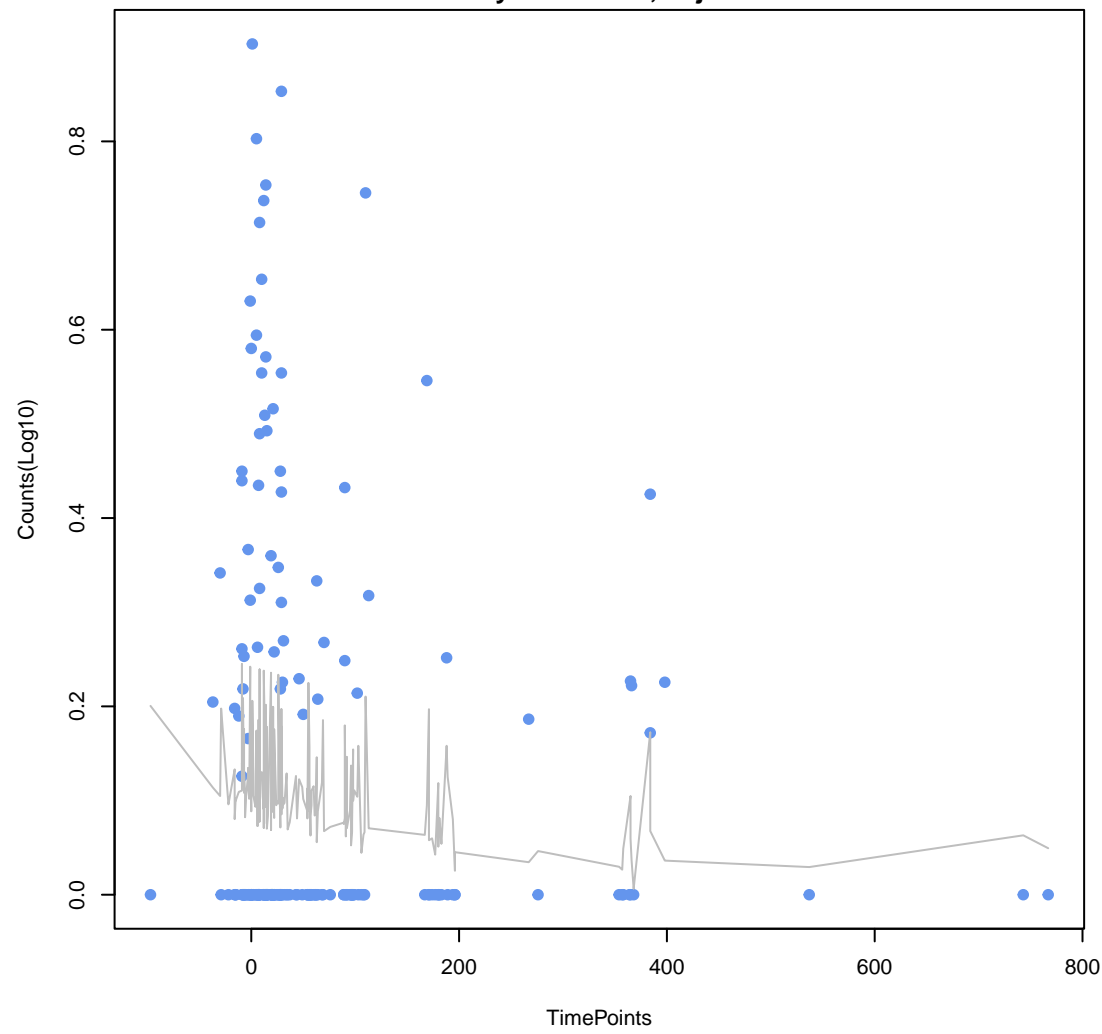
SAT-4
ANOVA P=0.343, adj. ANOVA-P=0.705
Line vs. Poly F-P=0.139, adj. F-P=0.745



acrD
ANOVA P=0.36, adj. ANOVA-P=0.713
Line vs. Poly F-P=0.35, adj. F-P=0.898

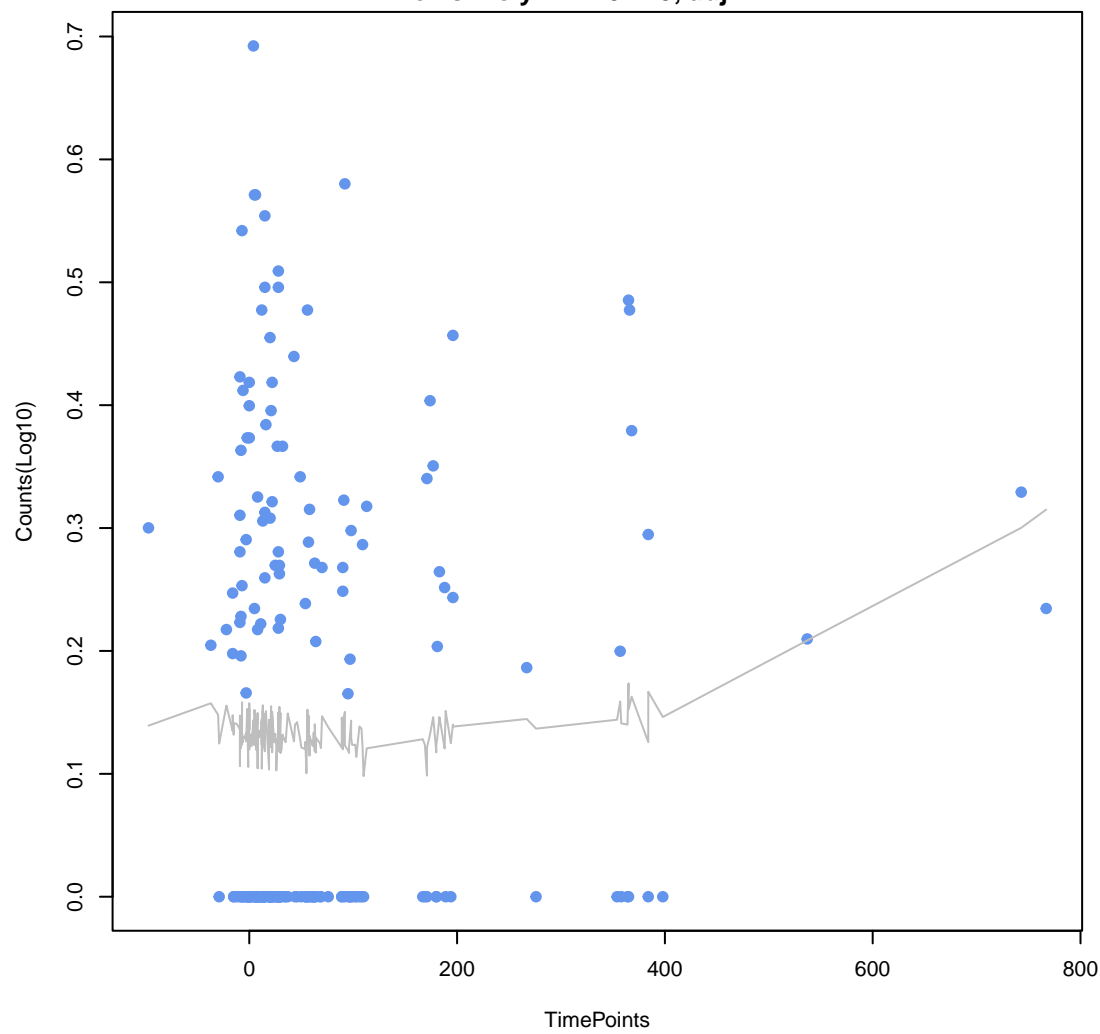


pmrA
ANOVA P=0.366, adj. ANOVA-P=0.713
Line vs. Poly F-P=0.282, adj. F-P=0.841



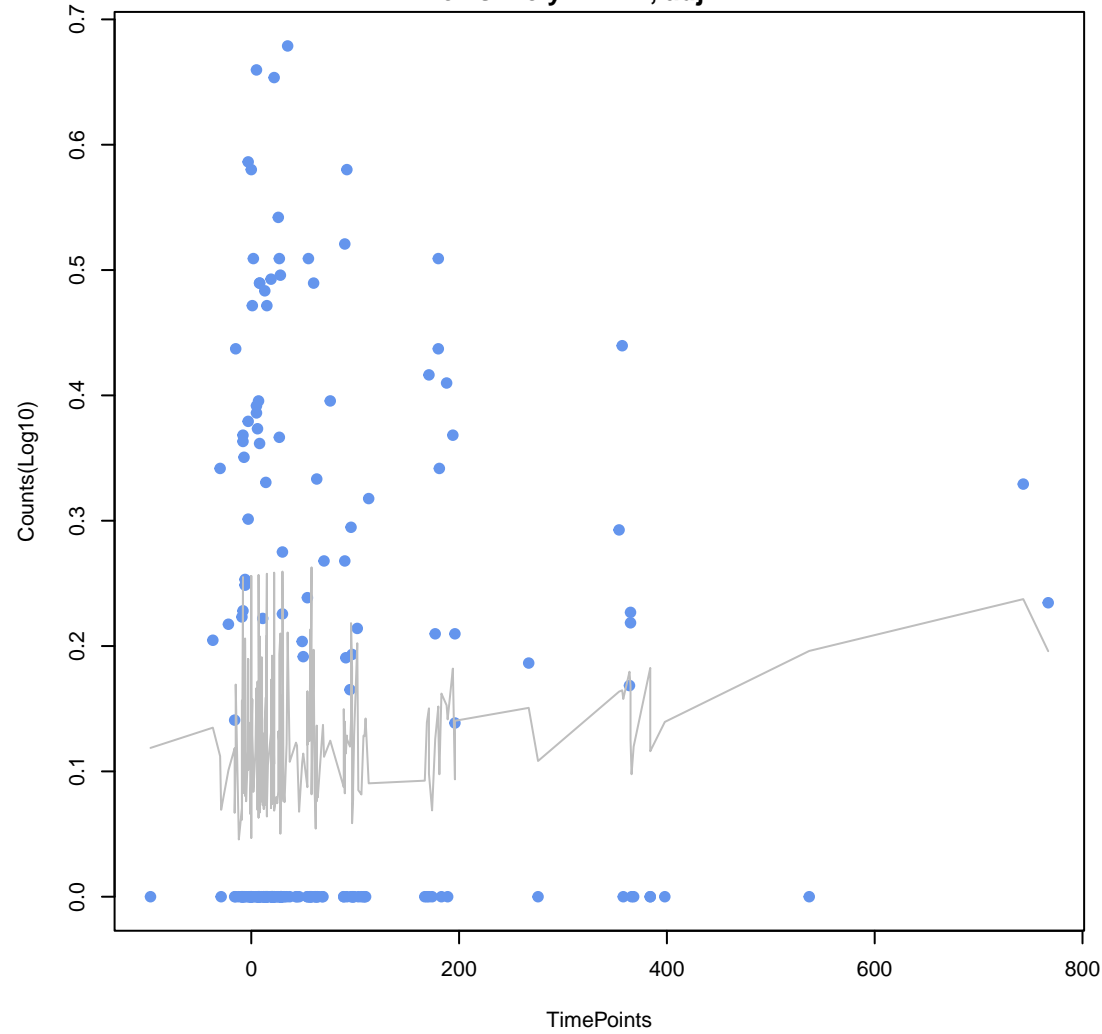
eptA

ANOVA P=0.367, adj. ANOVA-P=0.713
Line vs. Poly F-P=0.449, adj. F-P=1



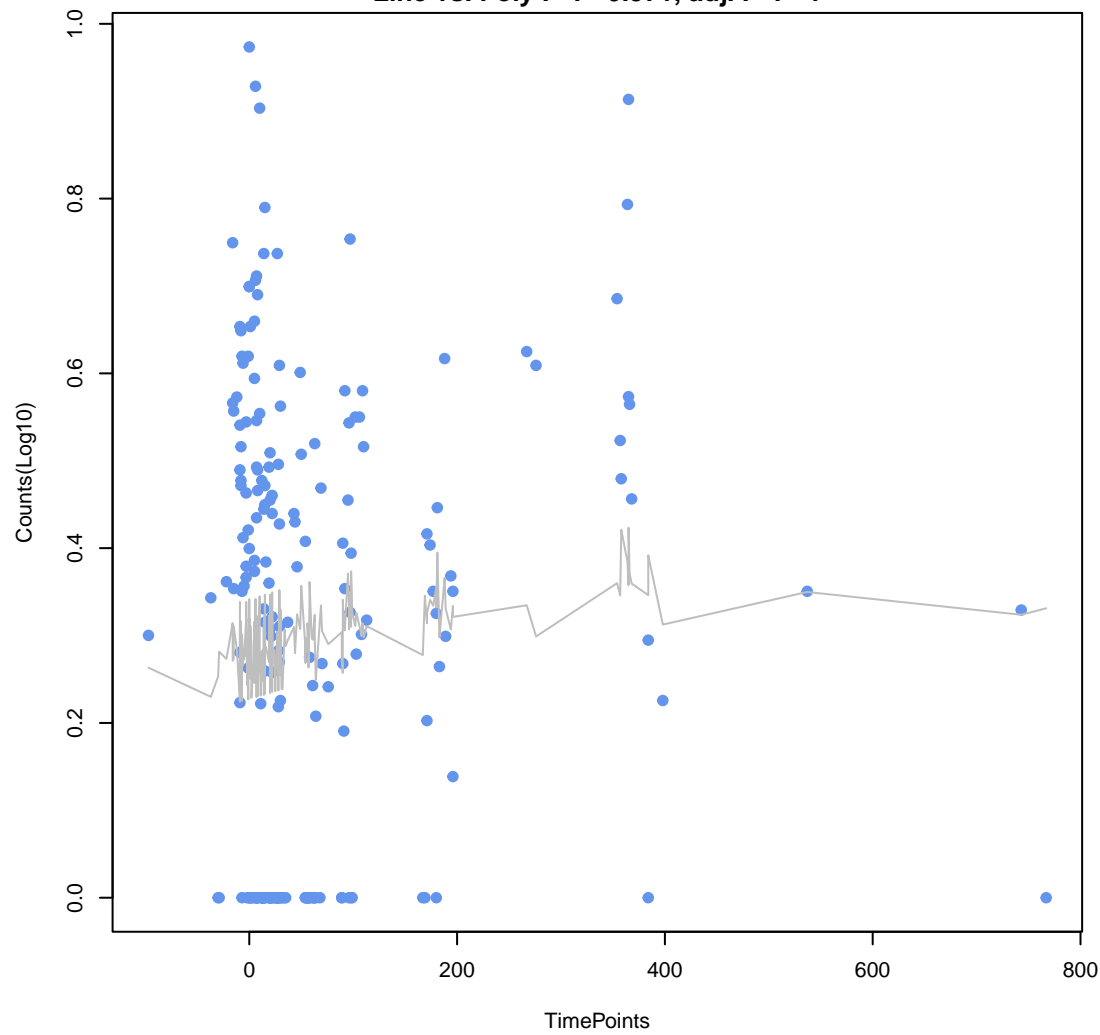
tet(W/32/O)

ANOVA P=0.386, adj. ANOVA-P=0.738
Line vs. Poly F-P=1, adj. F-P=1



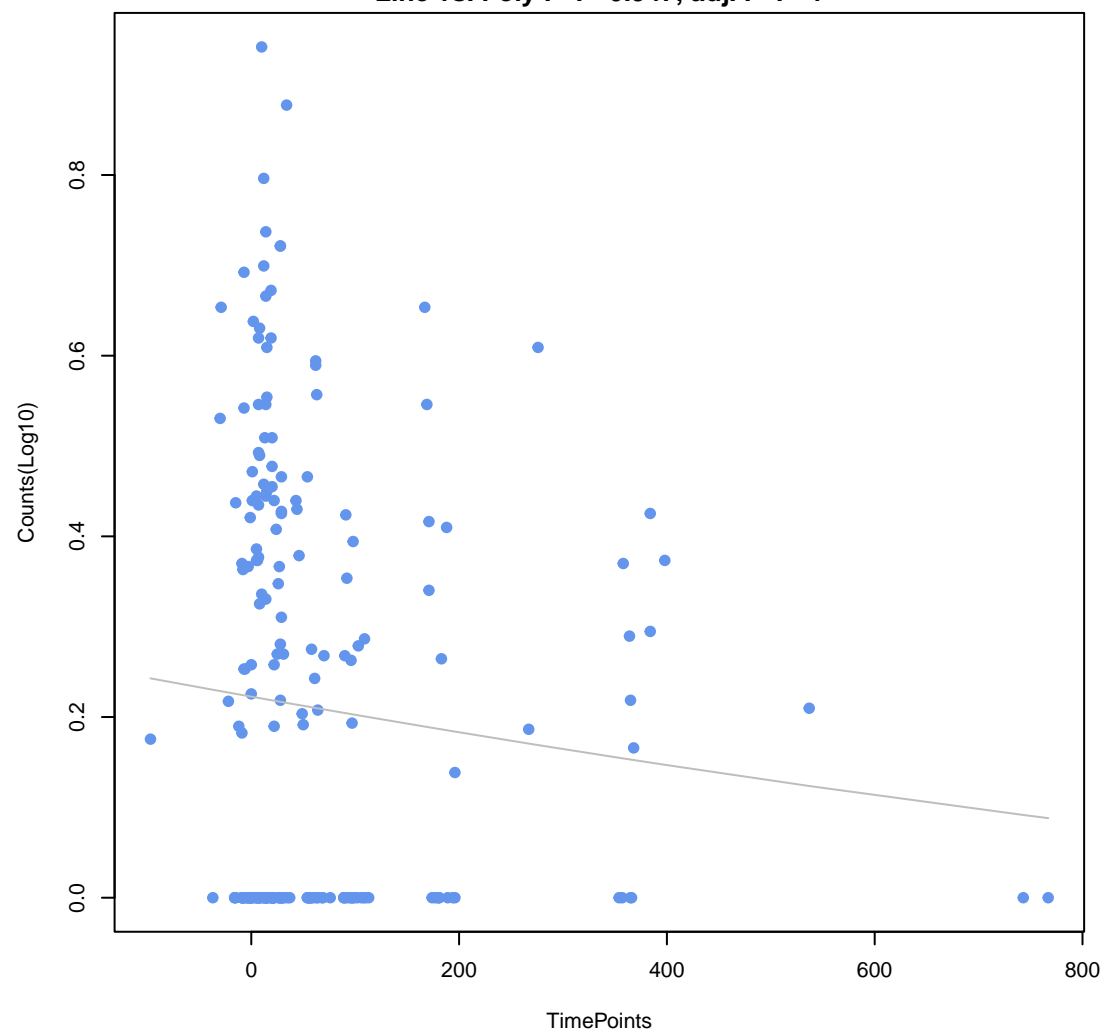
BlaB-38

ANOVA P=0.413, adj. ANOVA-P=0.757
Line vs. Poly F-P=0.571, adj. F-P=1



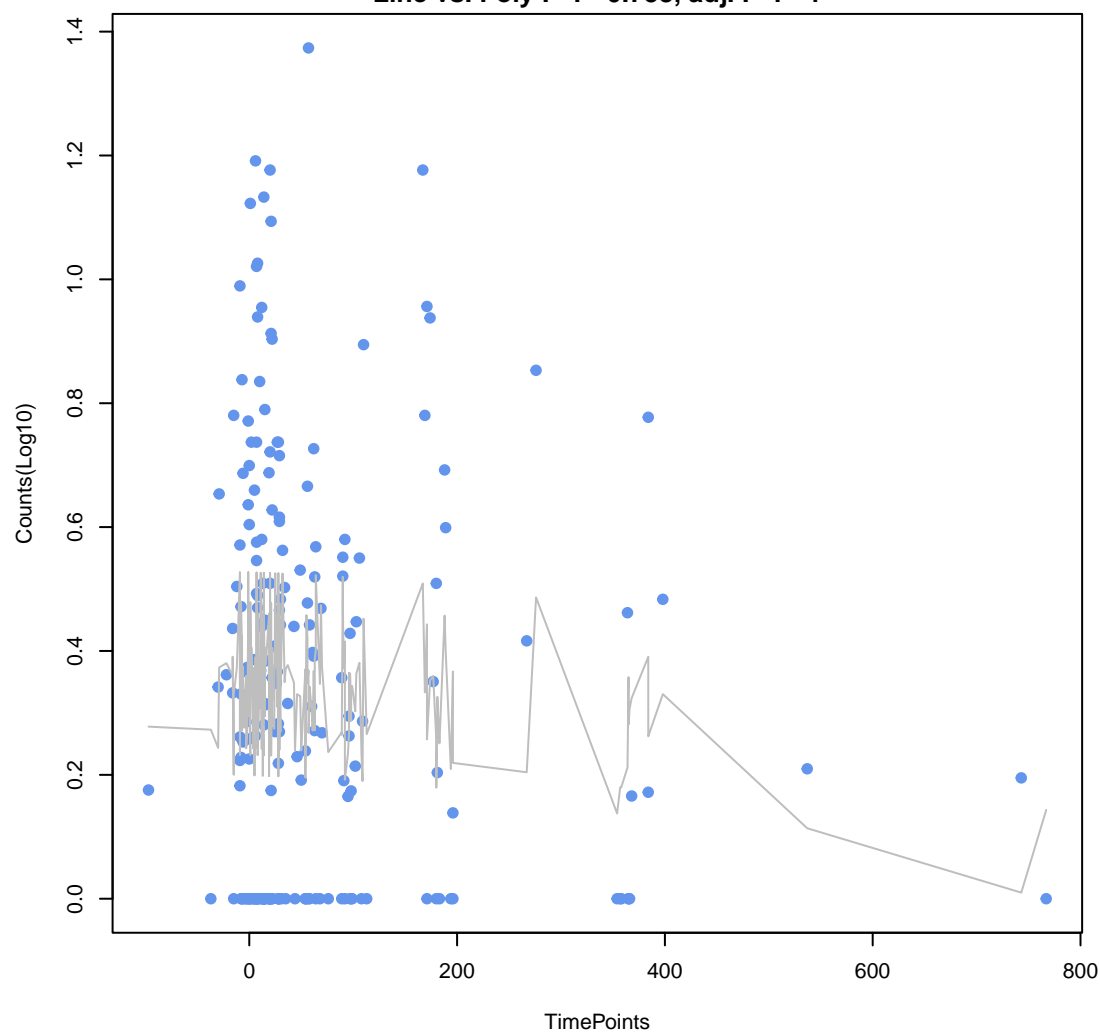
msrC

ANOVA P=0.415, adj. ANOVA-P=0.757
Line vs. Poly F-P=0.947, adj. F-P=1



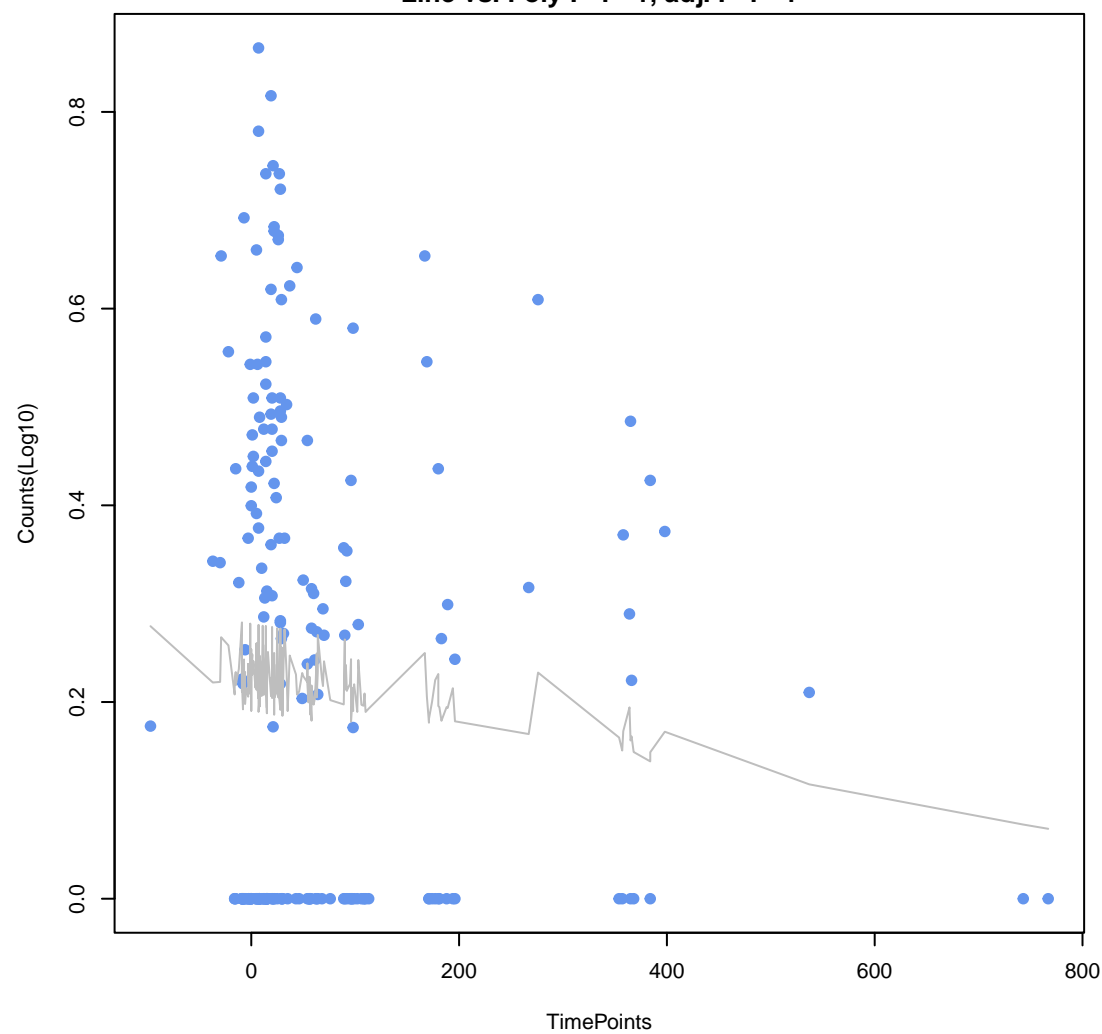
ImrD

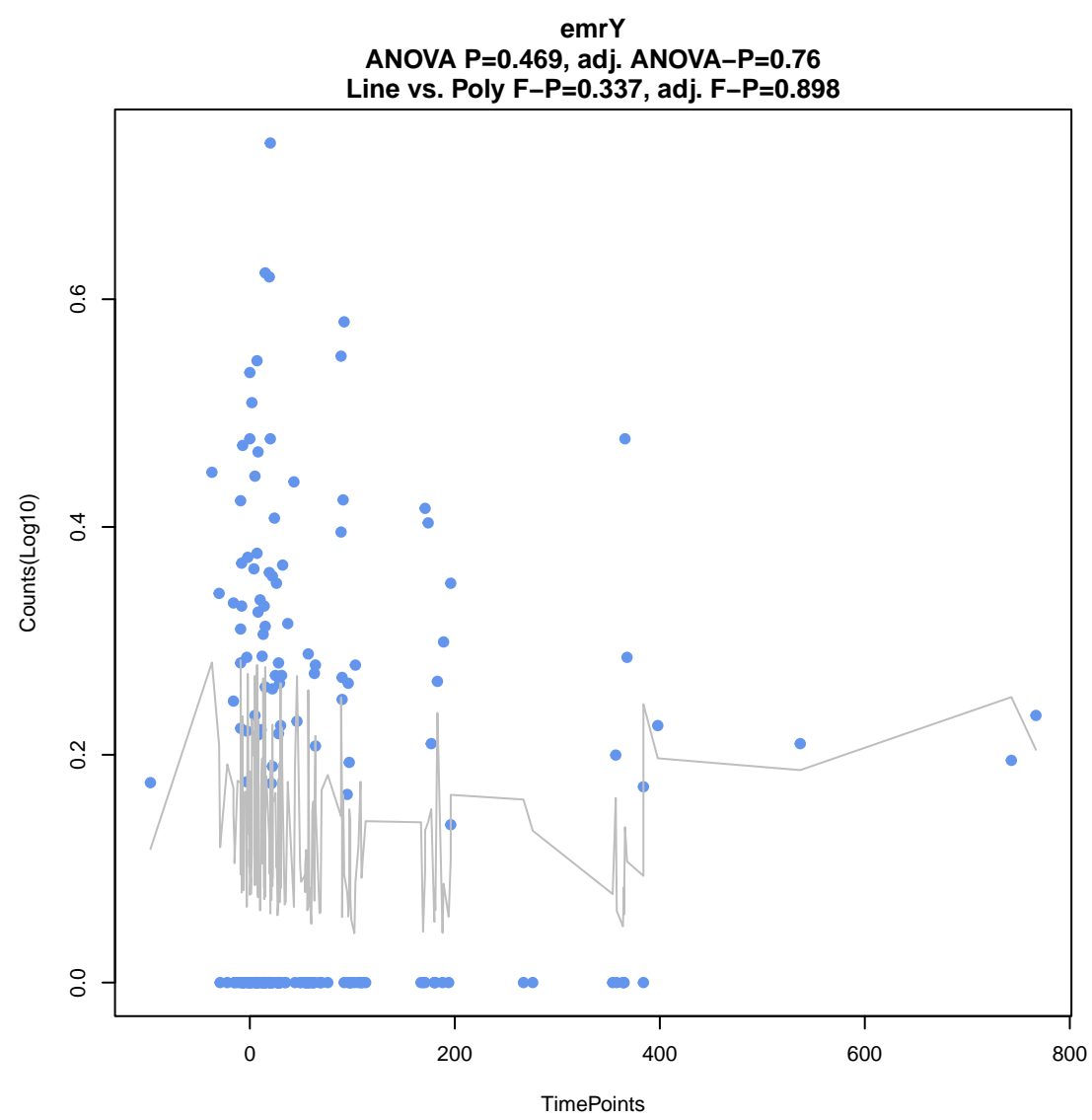
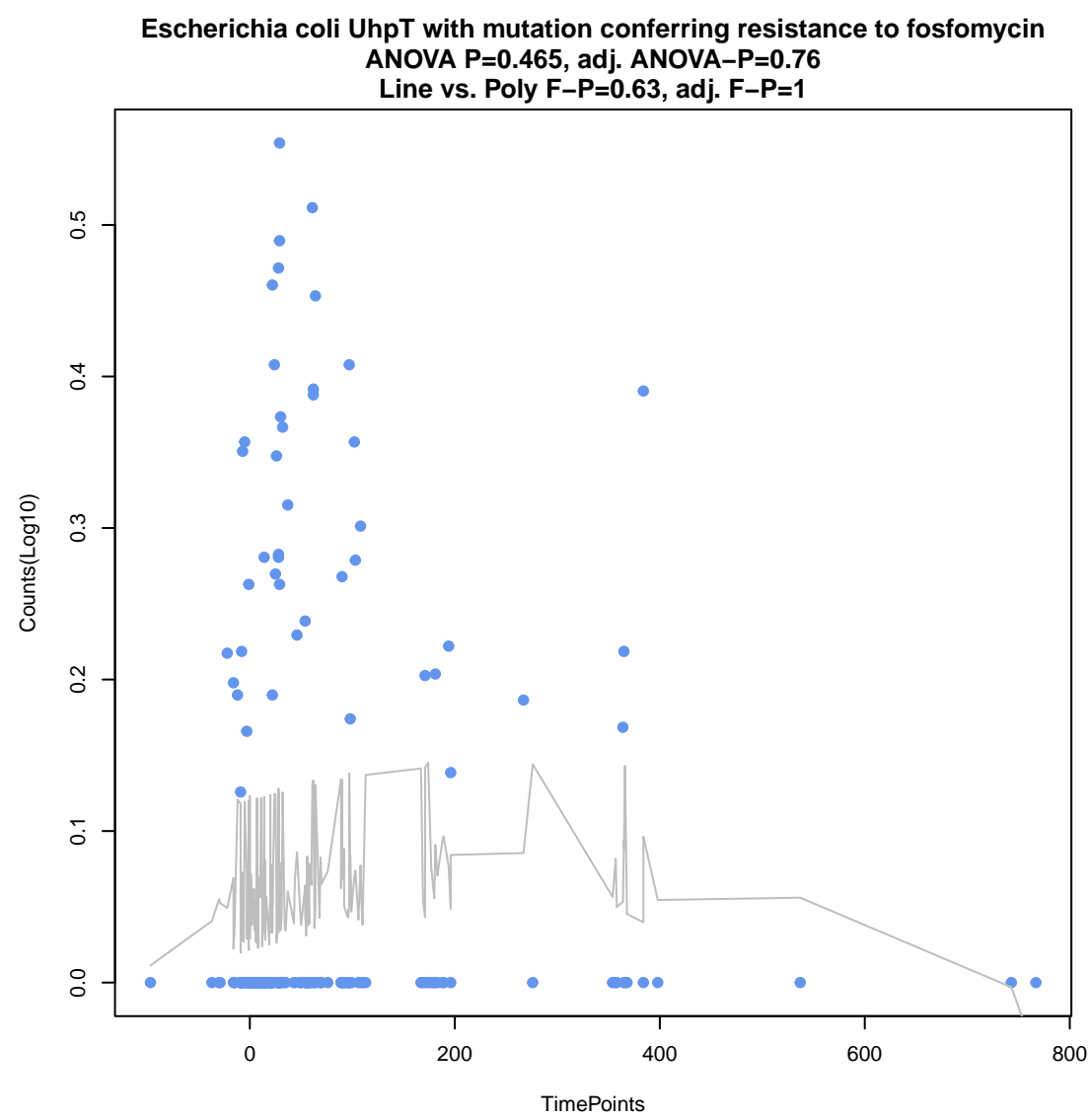
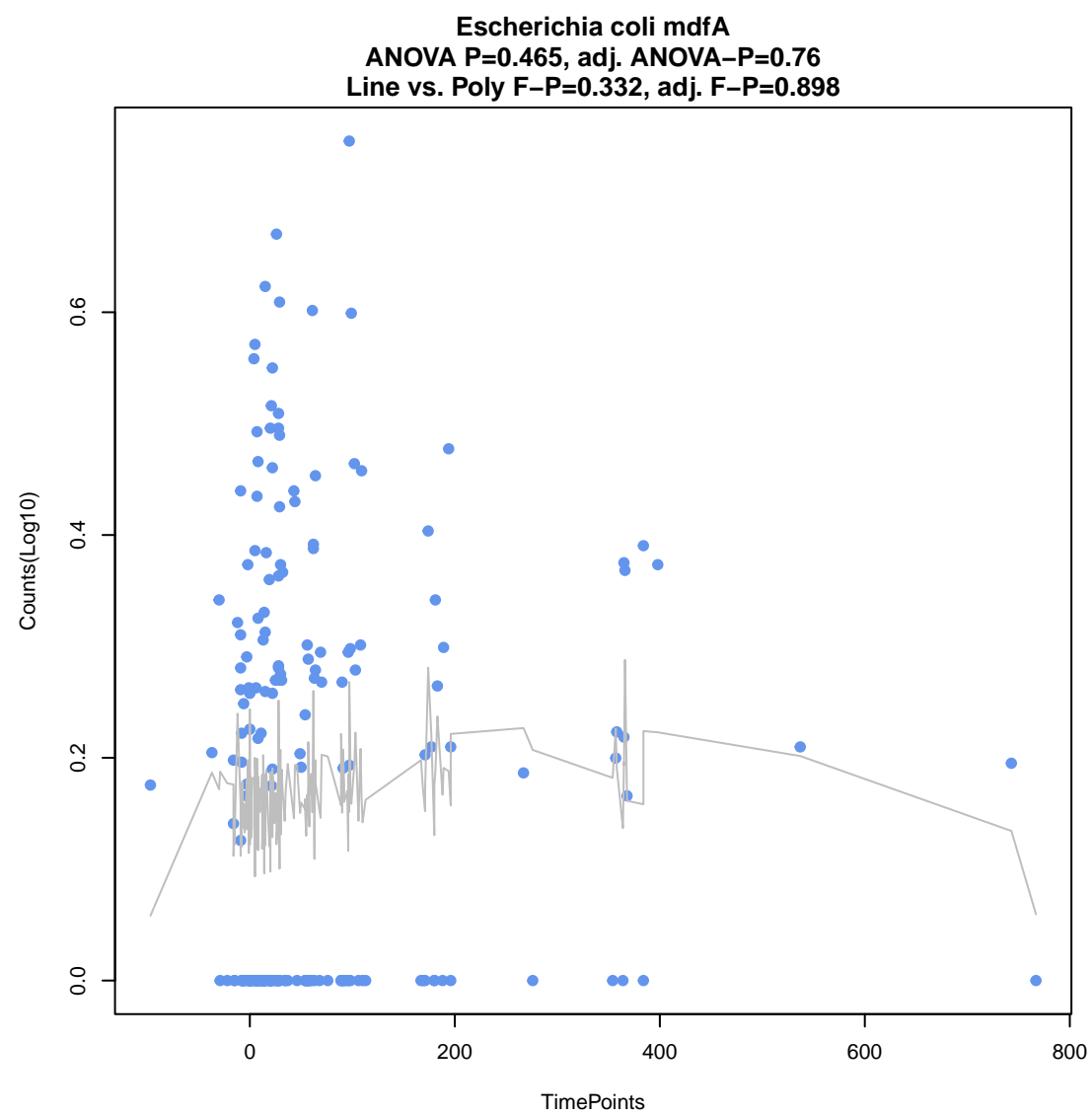
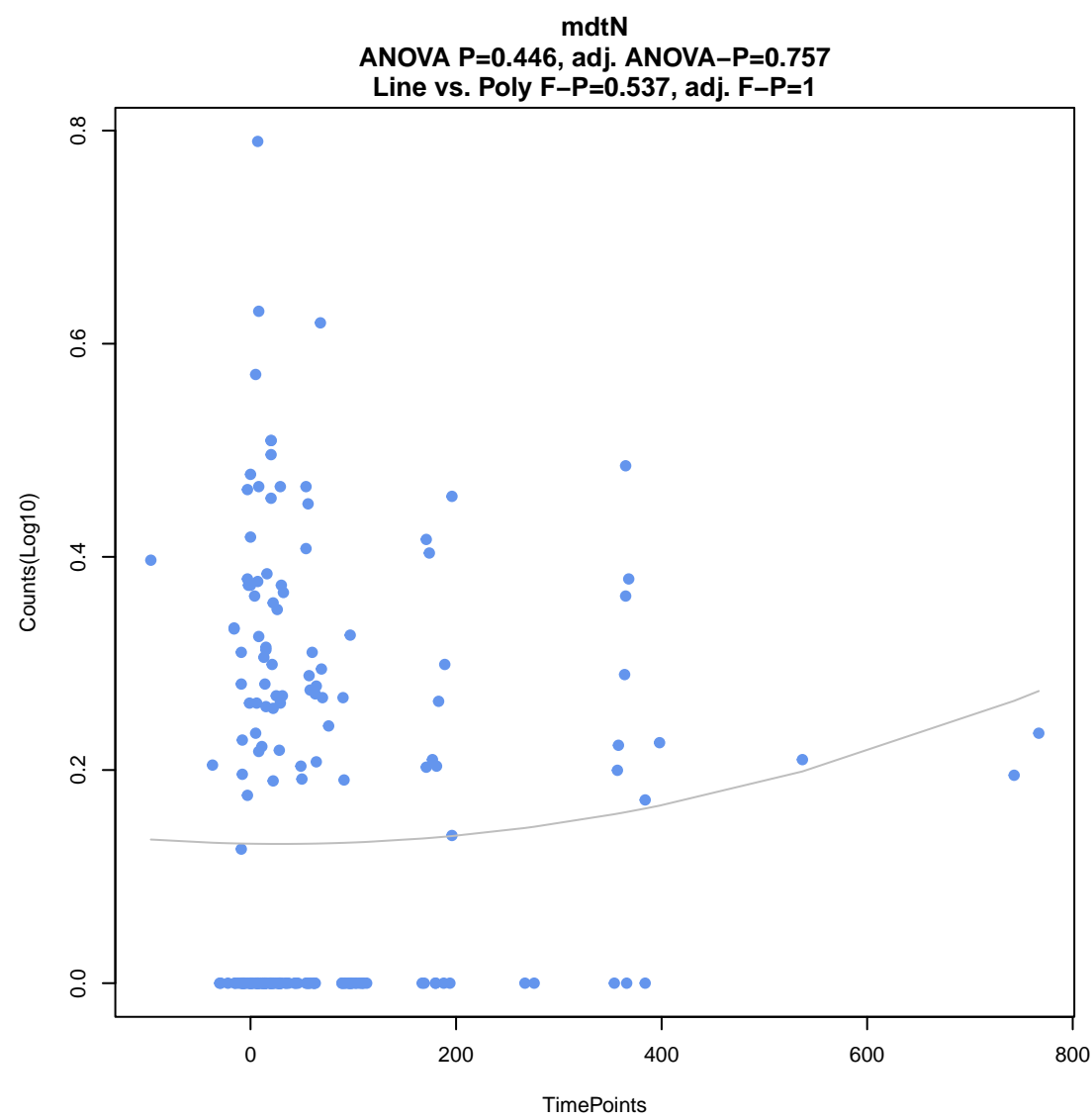
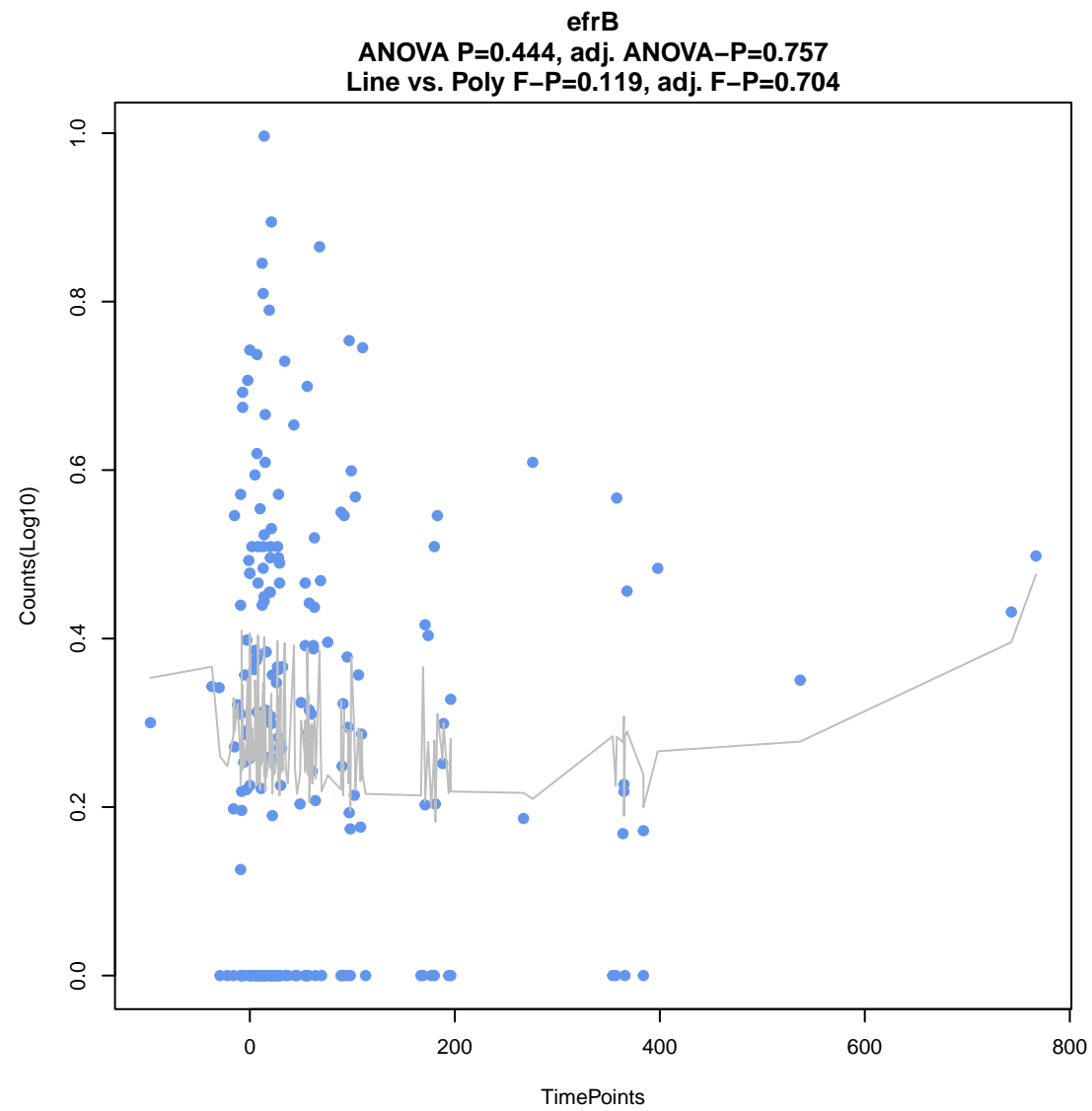
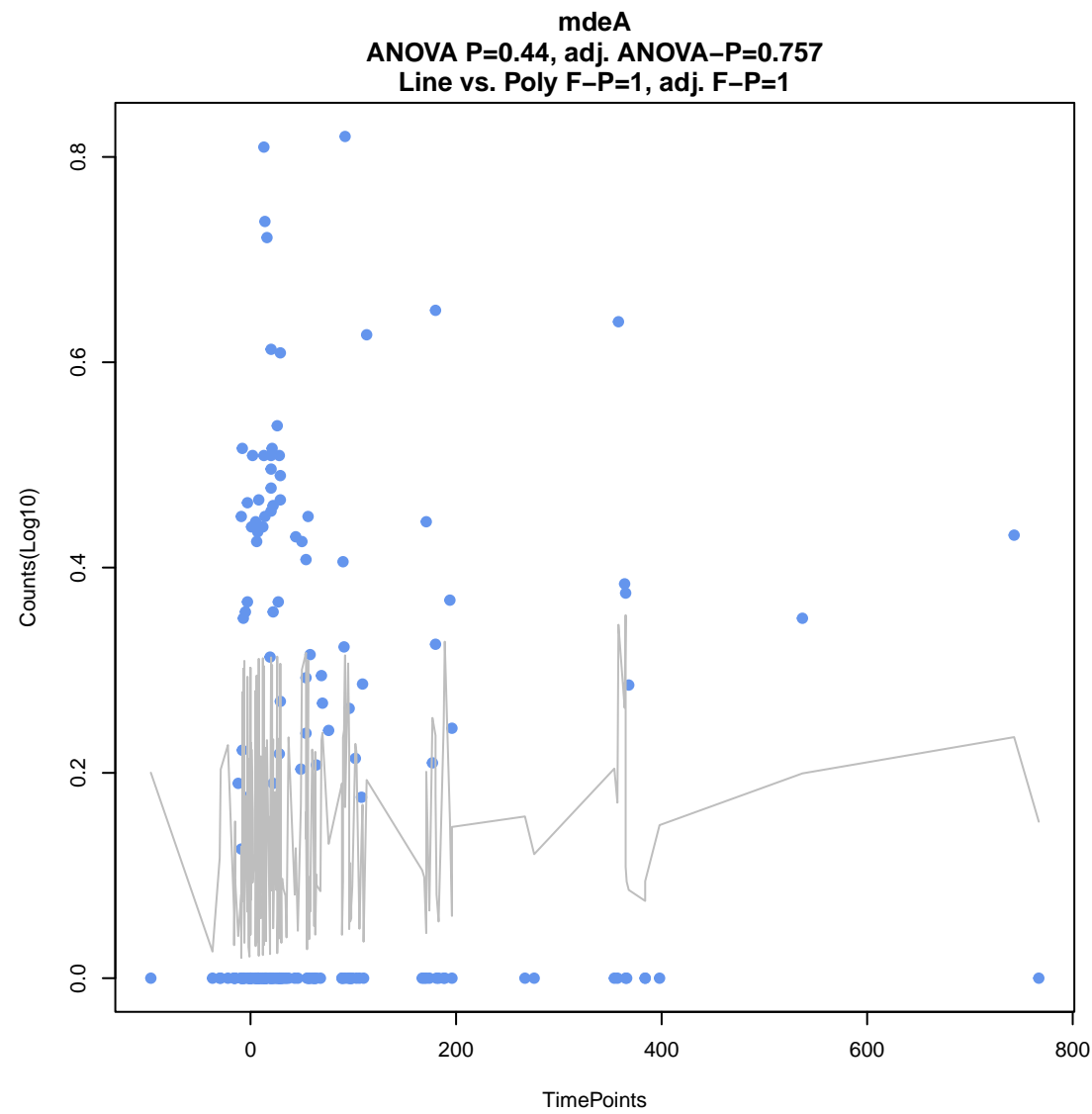
ANOVA P=0.439, adj. ANOVA-P=0.757
Line vs. Poly F-P=0.758, adj. F-P=1



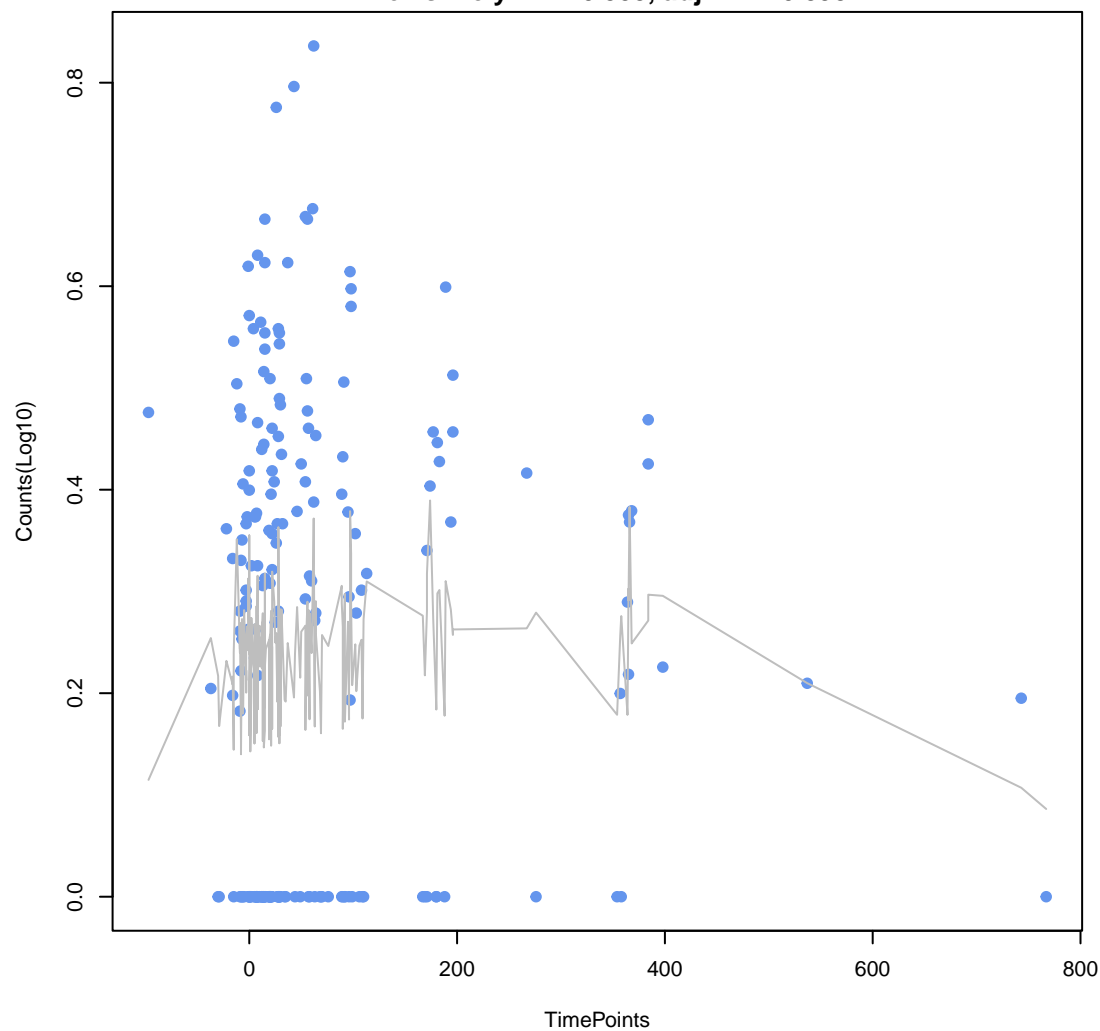
vanS gene in vanA cluster

ANOVA P=0.439, adj. ANOVA-P=0.757
Line vs. Poly F-P=1, adj. F-P=1

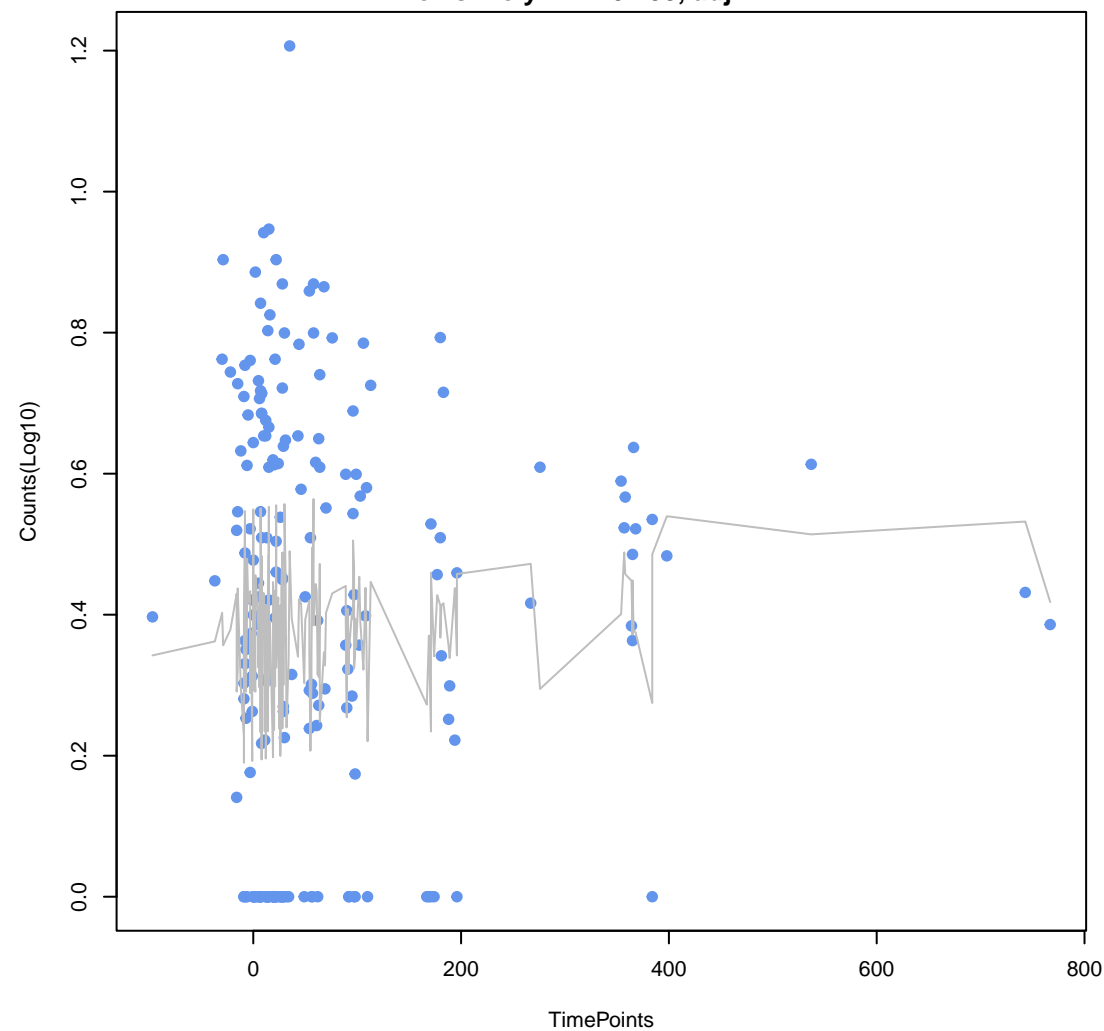




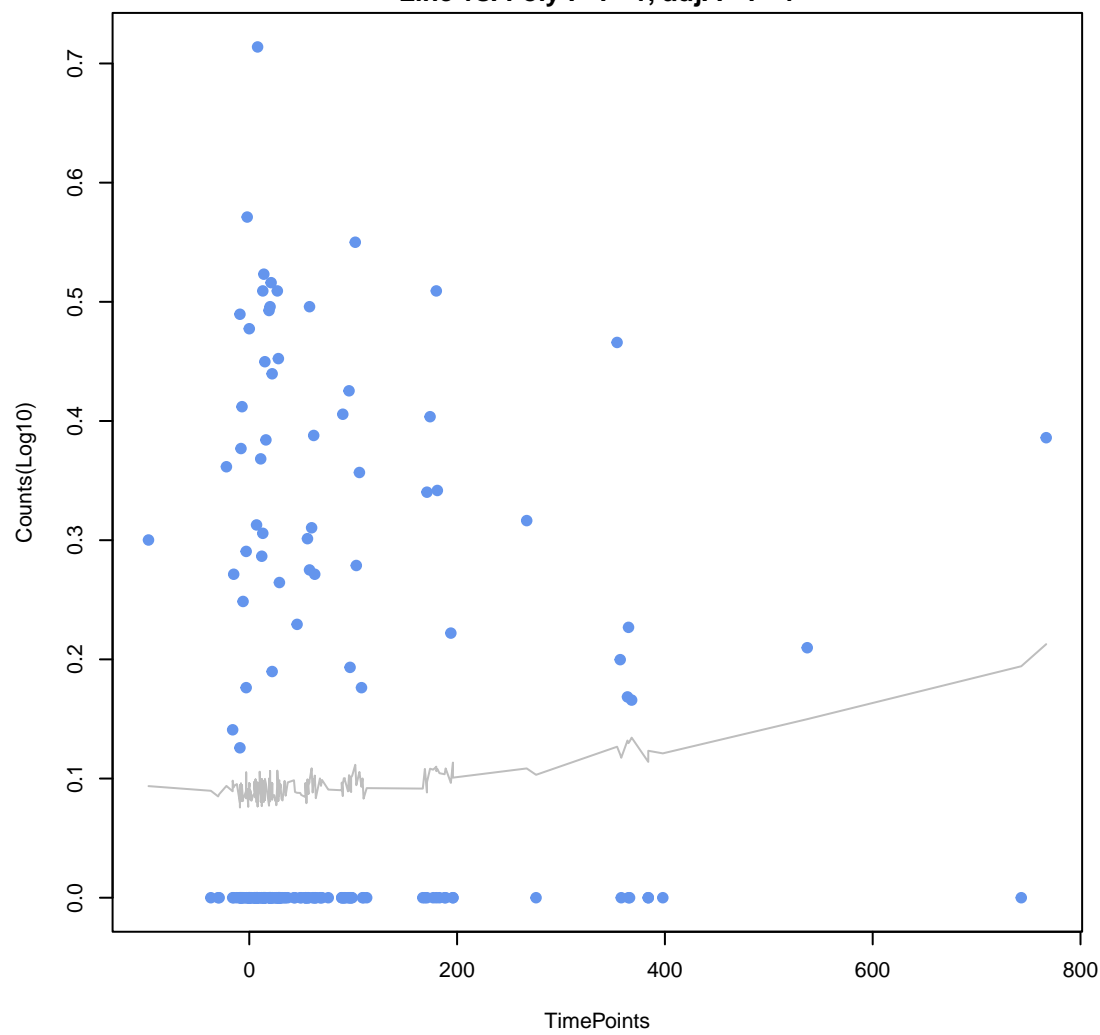
msbA
ANOVA P=0.49, adj. ANOVA-P=0.764
Line vs. Poly F-P=0.353, adj. F-P=0.898



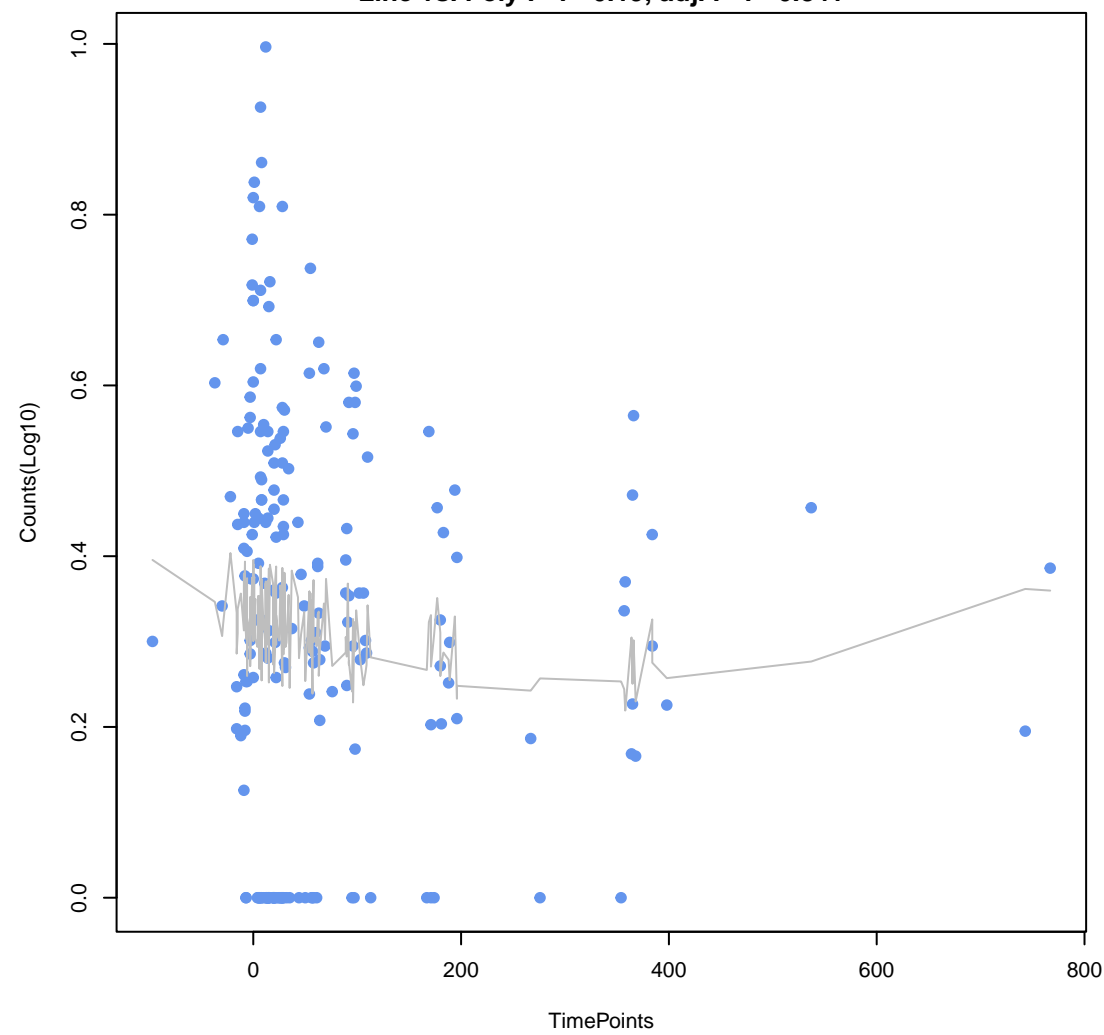
poxA
ANOVA P=0.491, adj. ANOVA-P=0.764
Line vs. Poly F-P=0.758, adj. F-P=1



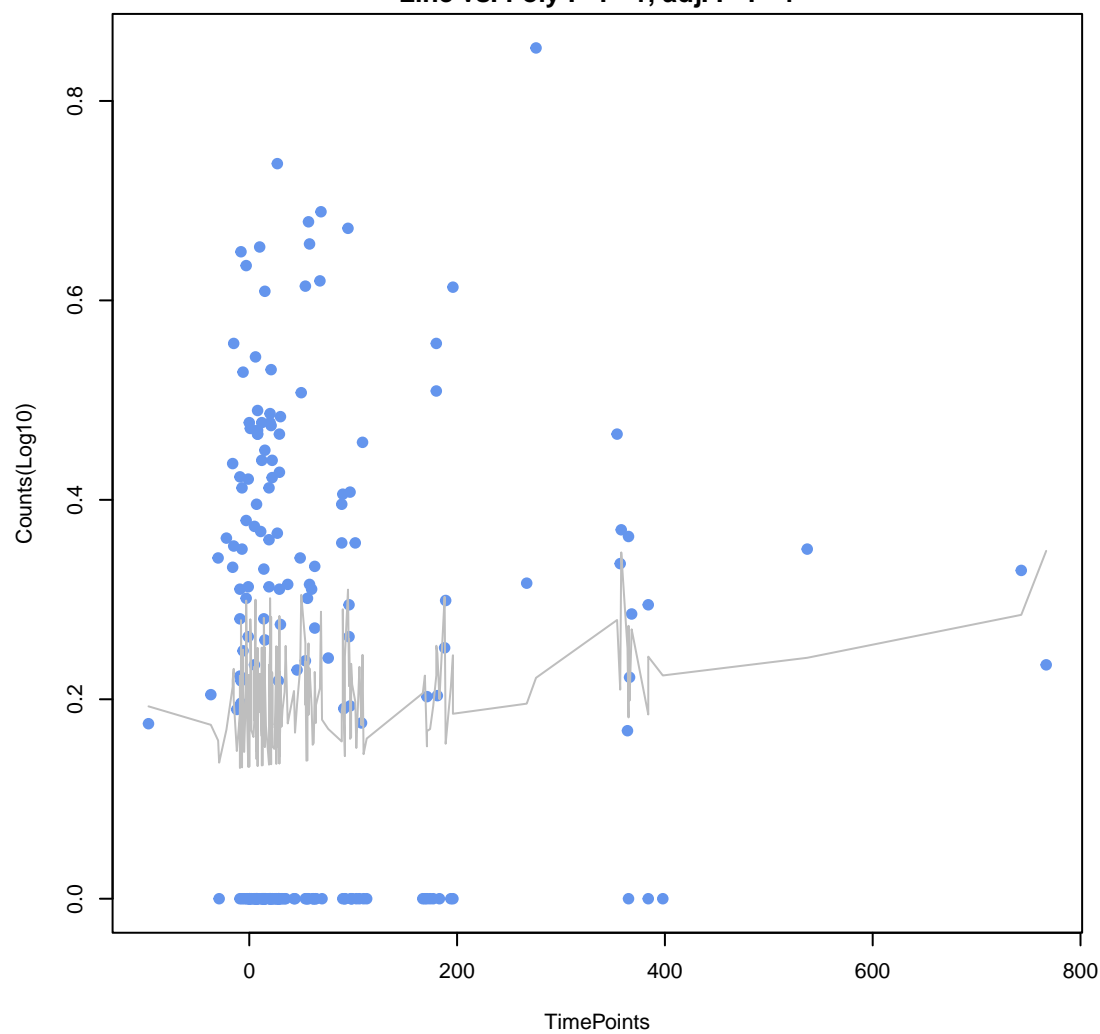
tet(W/N/W)
ANOVA P=0.5, adj. ANOVA-P=0.764
Line vs. Poly F-P=1, adj. F-P=1



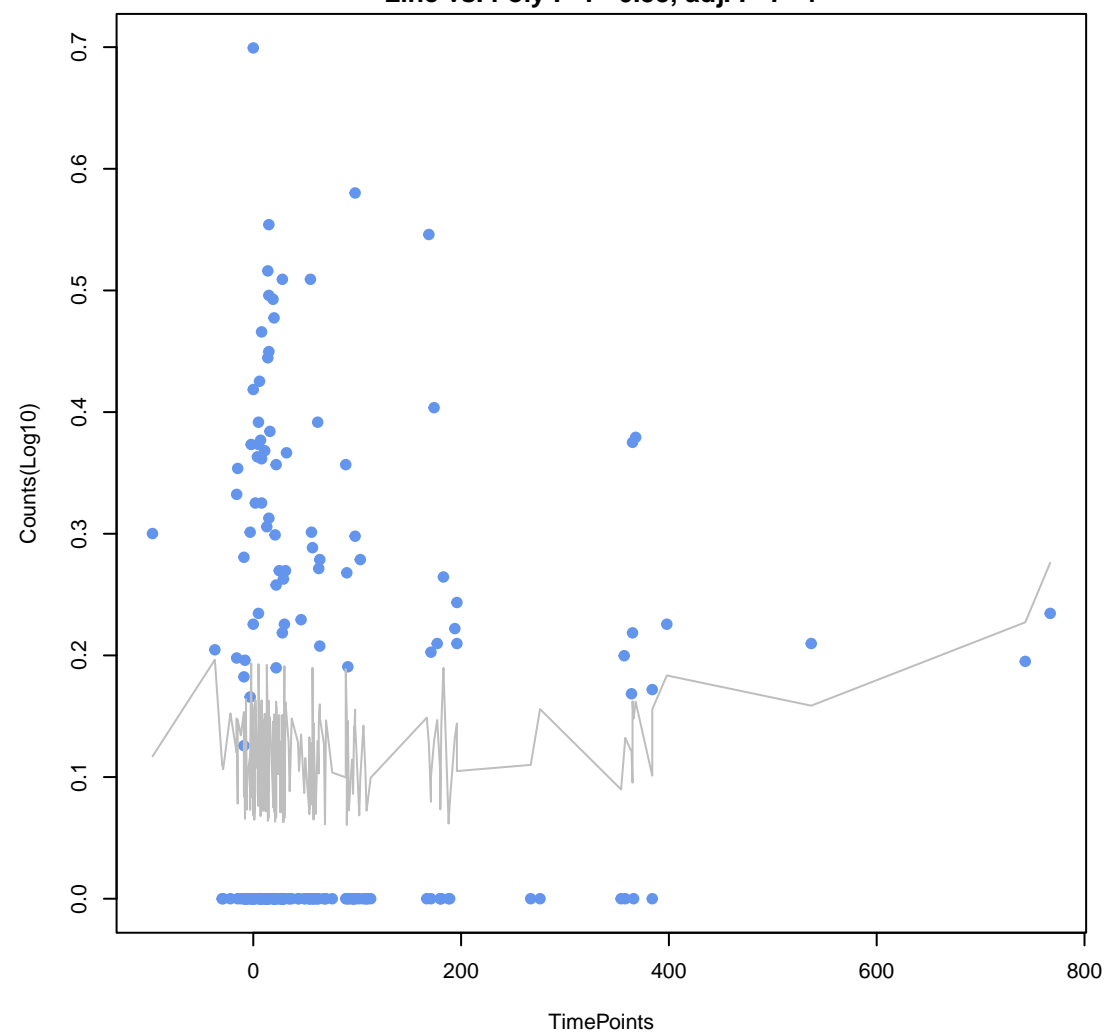
tetB(46)
ANOVA P=0.51, adj. ANOVA-P=0.764
Line vs. Poly F-P=0.19, adj. F-P=0.841



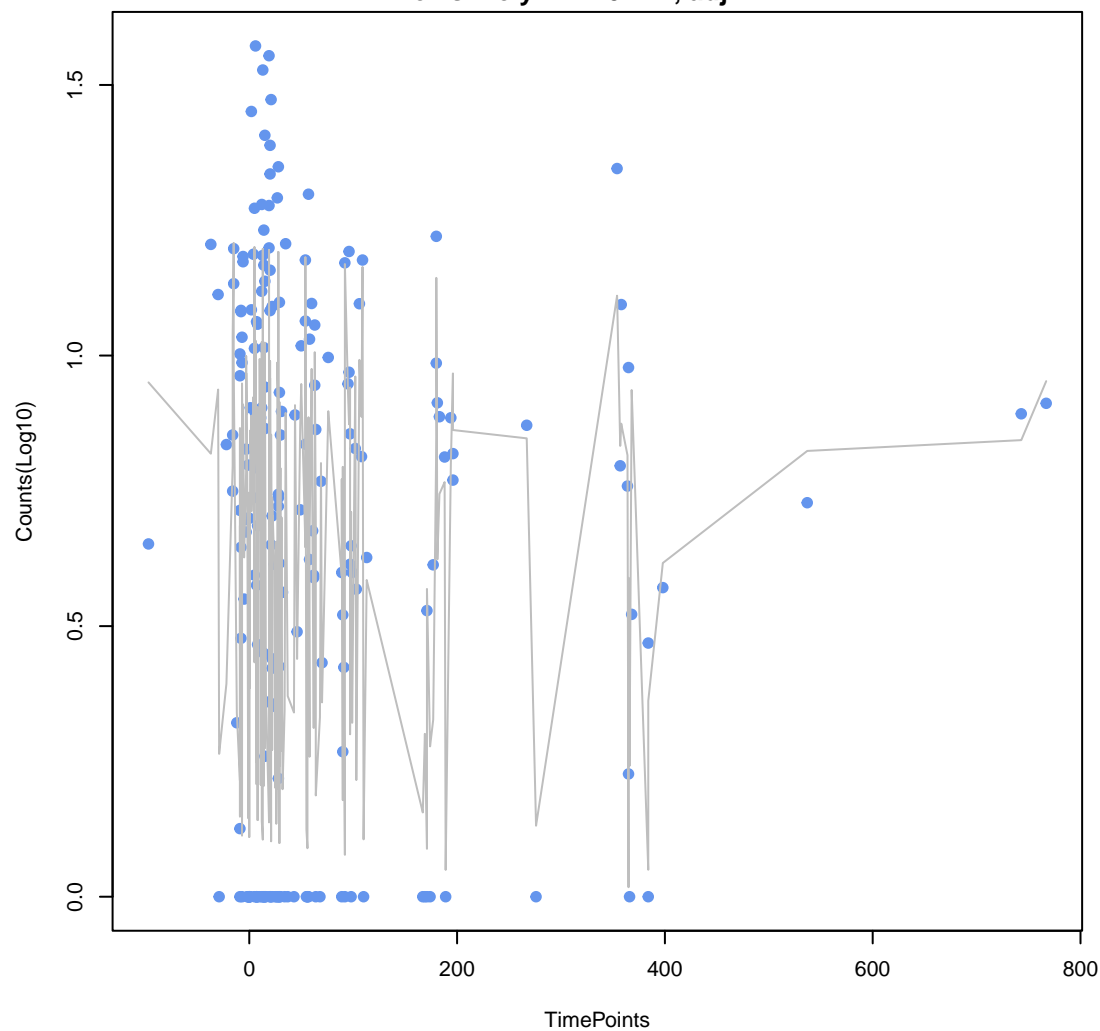
chrB
ANOVA P=0.511, adj. ANOVA-P=0.764
Line vs. Poly F-P=1, adj. F-P=1



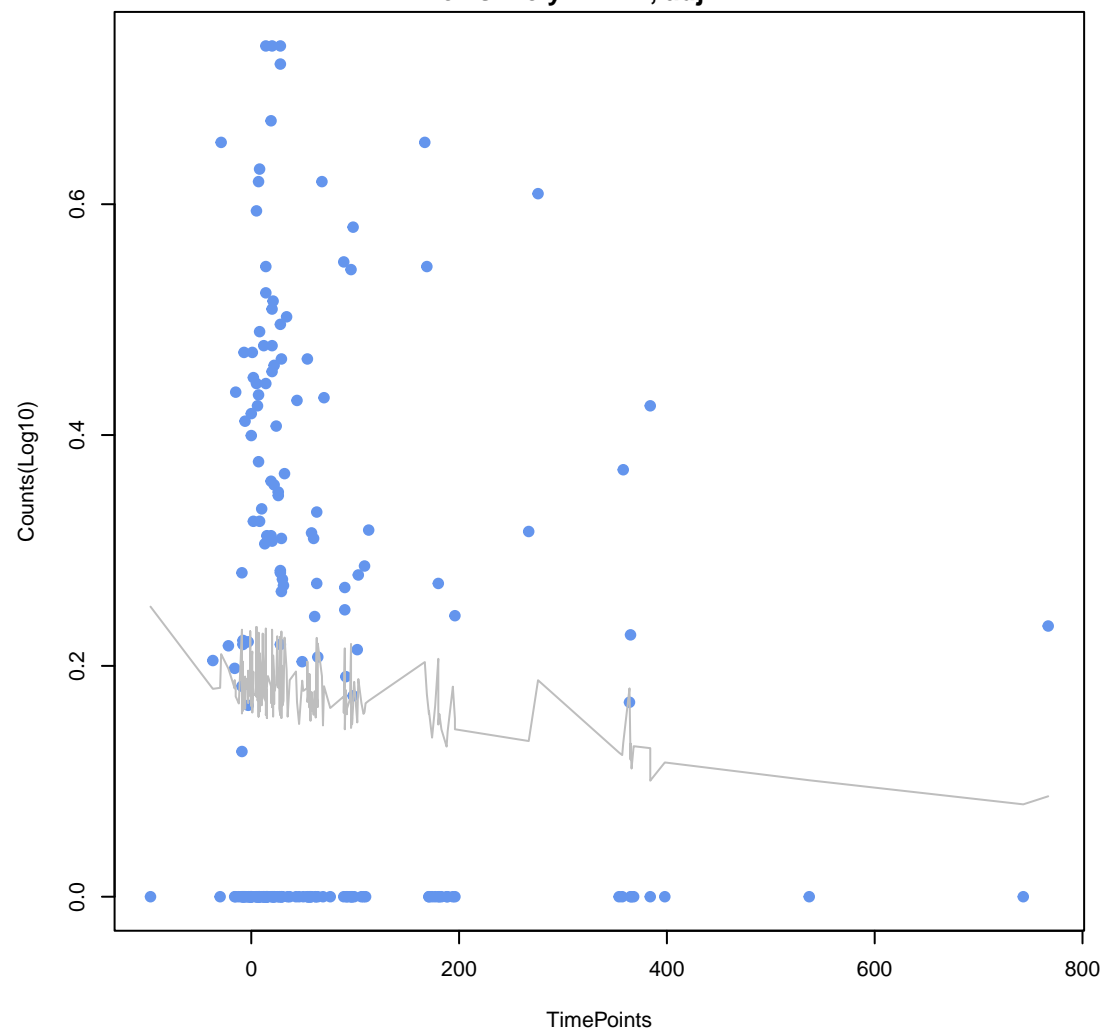
mdtE
ANOVA P=0.514, adj. ANOVA-P=0.764
Line vs. Poly F-P=0.55, adj. F-P=1



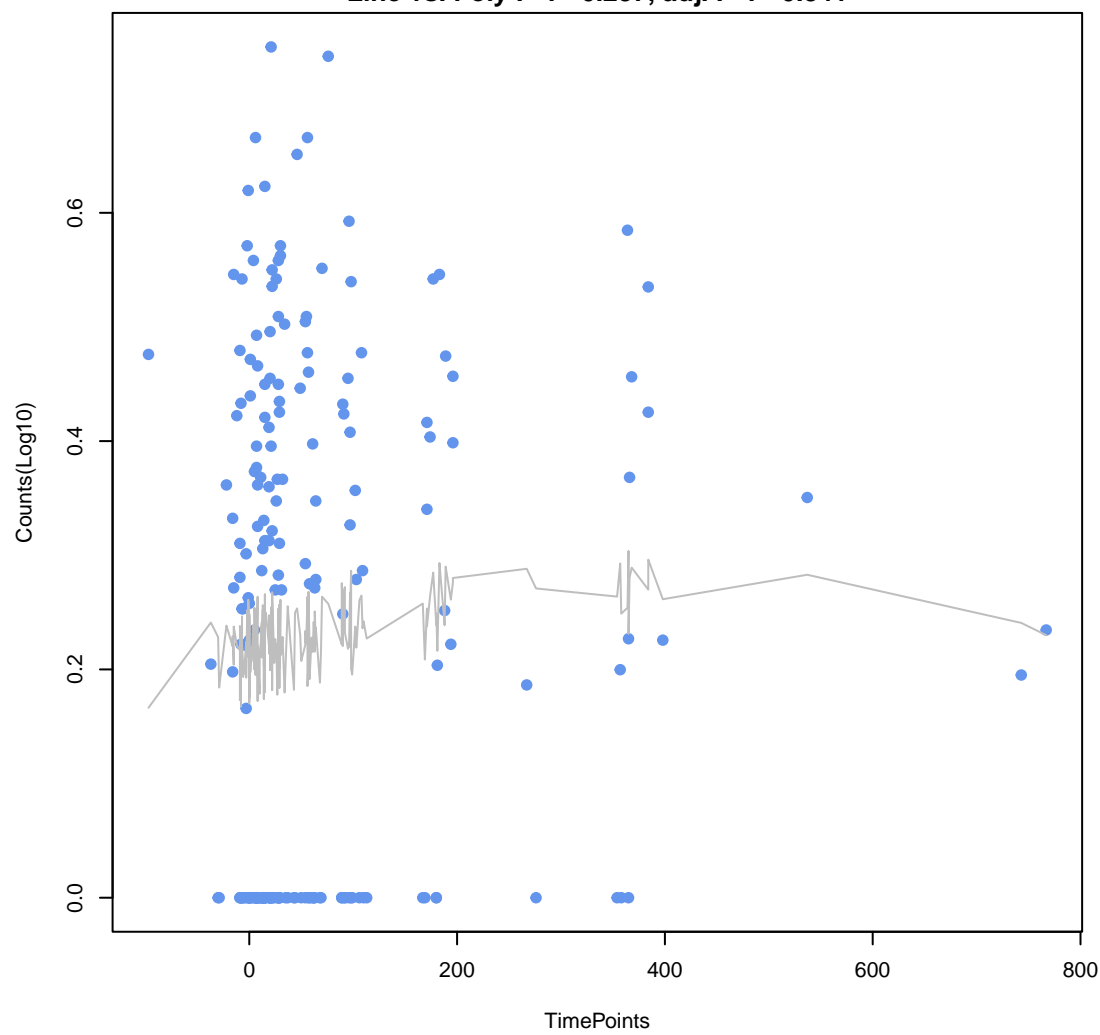
adeF
ANOVA P=0.523, adj. ANOVA-P=0.767
Line vs. Poly F-P=0.772, adj. F-P=1



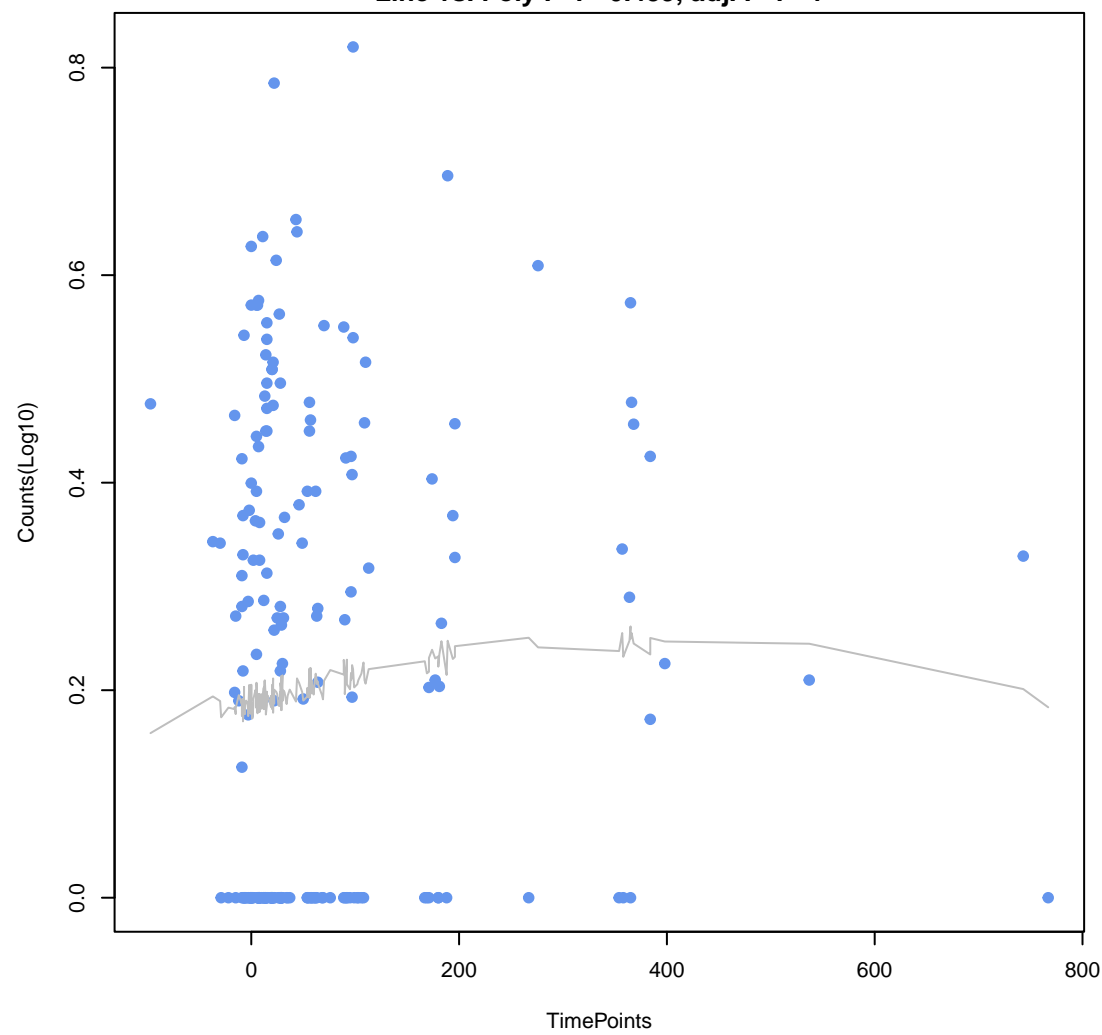
vanX gene in vanA cluster
ANOVA P=0.533, adj. ANOVA-P=0.77
Line vs. Poly F-P=1, adj. F-P=1



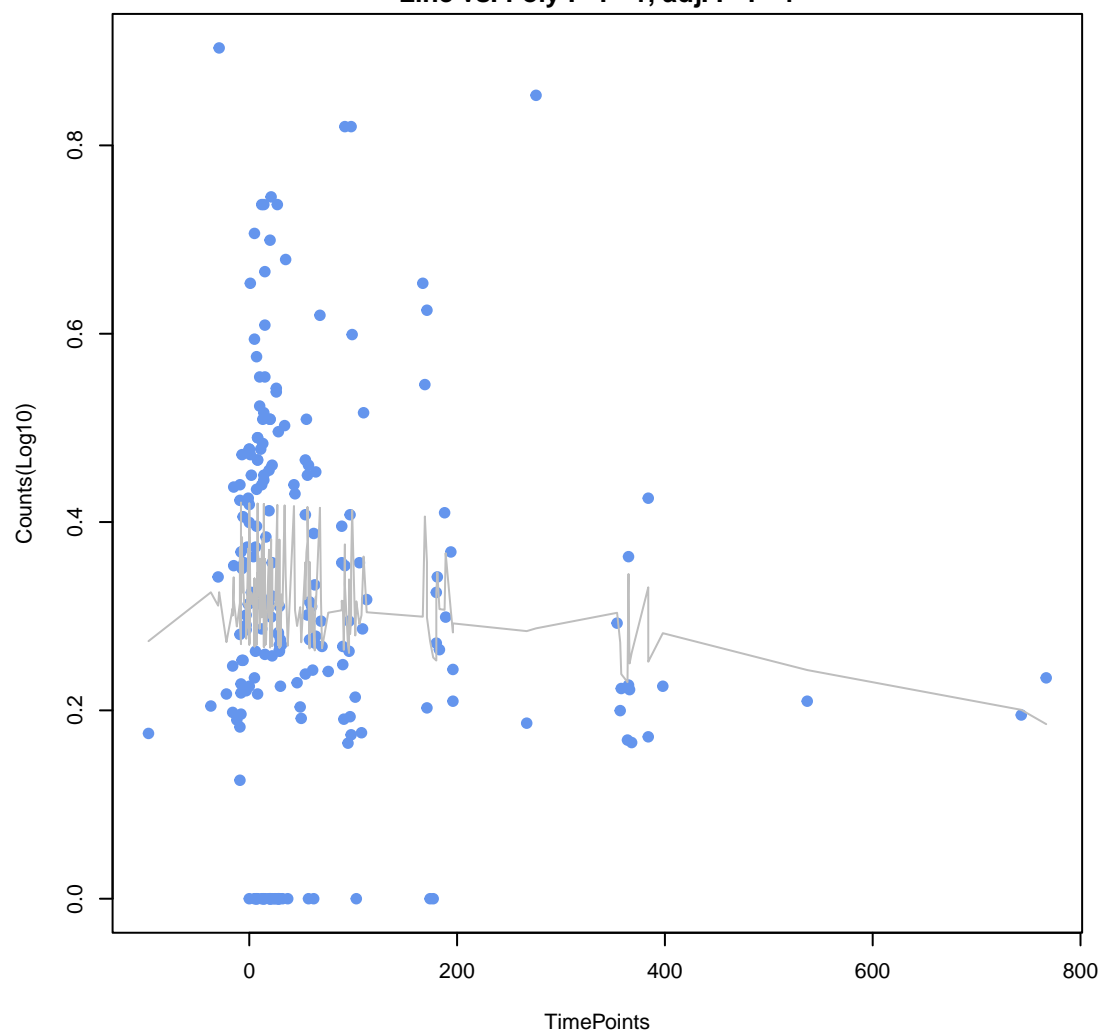
cpxA
ANOVA P=0.55, adj. ANOVA-P=0.779
Line vs. Poly F-P=0.237, adj. F-P=0.841



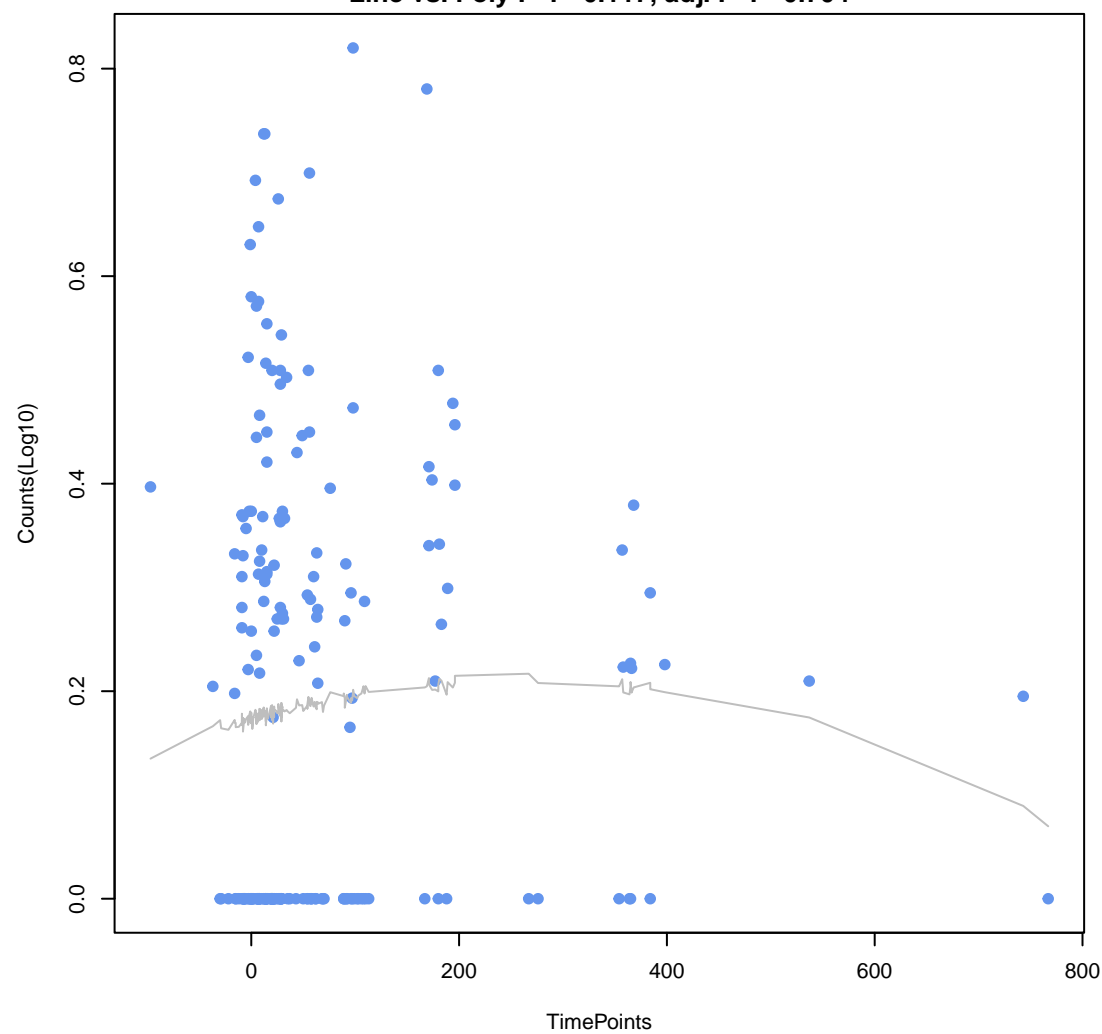
mdtO
ANOVA P=0.553, adj. ANOVA-P=0.779
Line vs. Poly F-P=0.439, adj. F-P=1



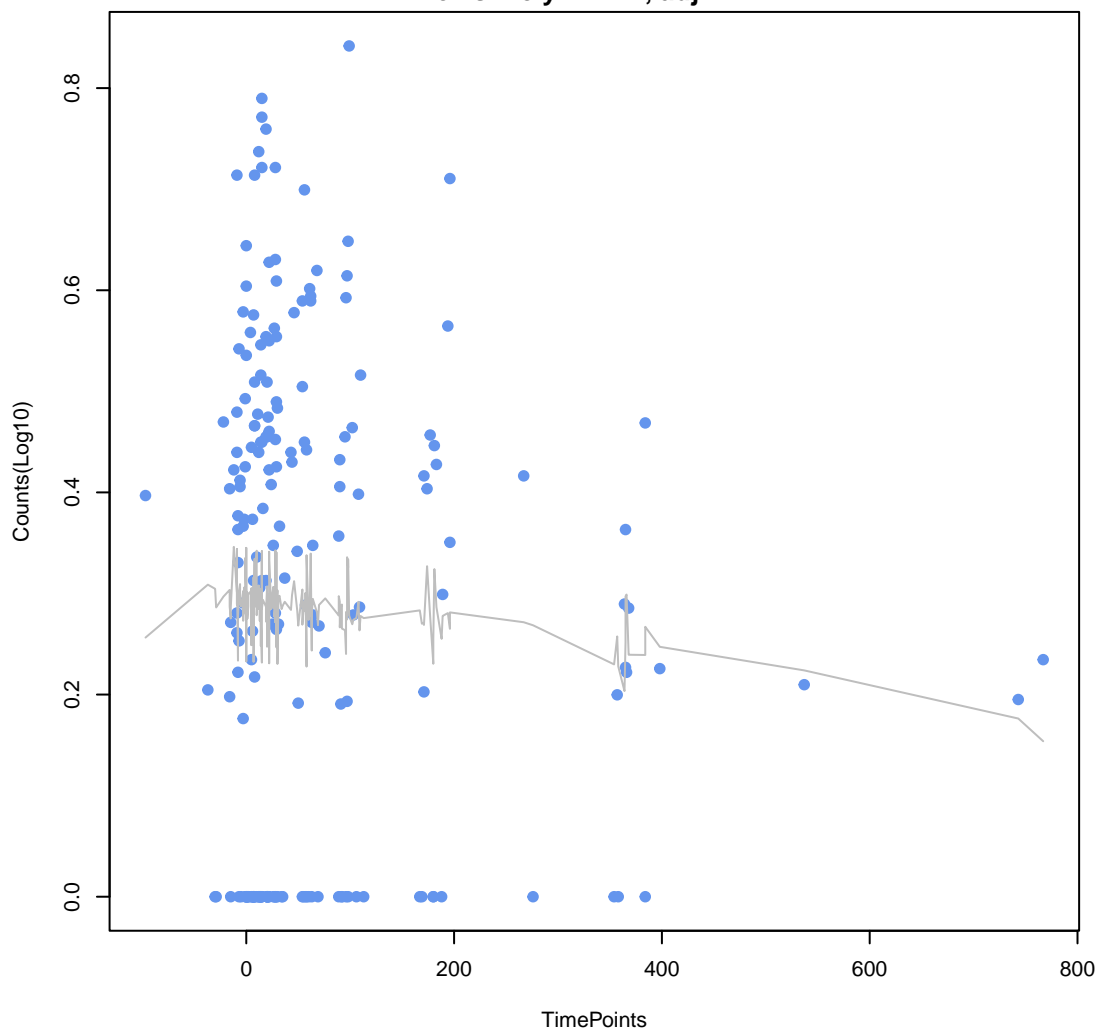
tet(40)
ANOVA P=0.564, adj. ANOVA-P=0.783
Line vs. Poly F-P=1, adj. F-P=1



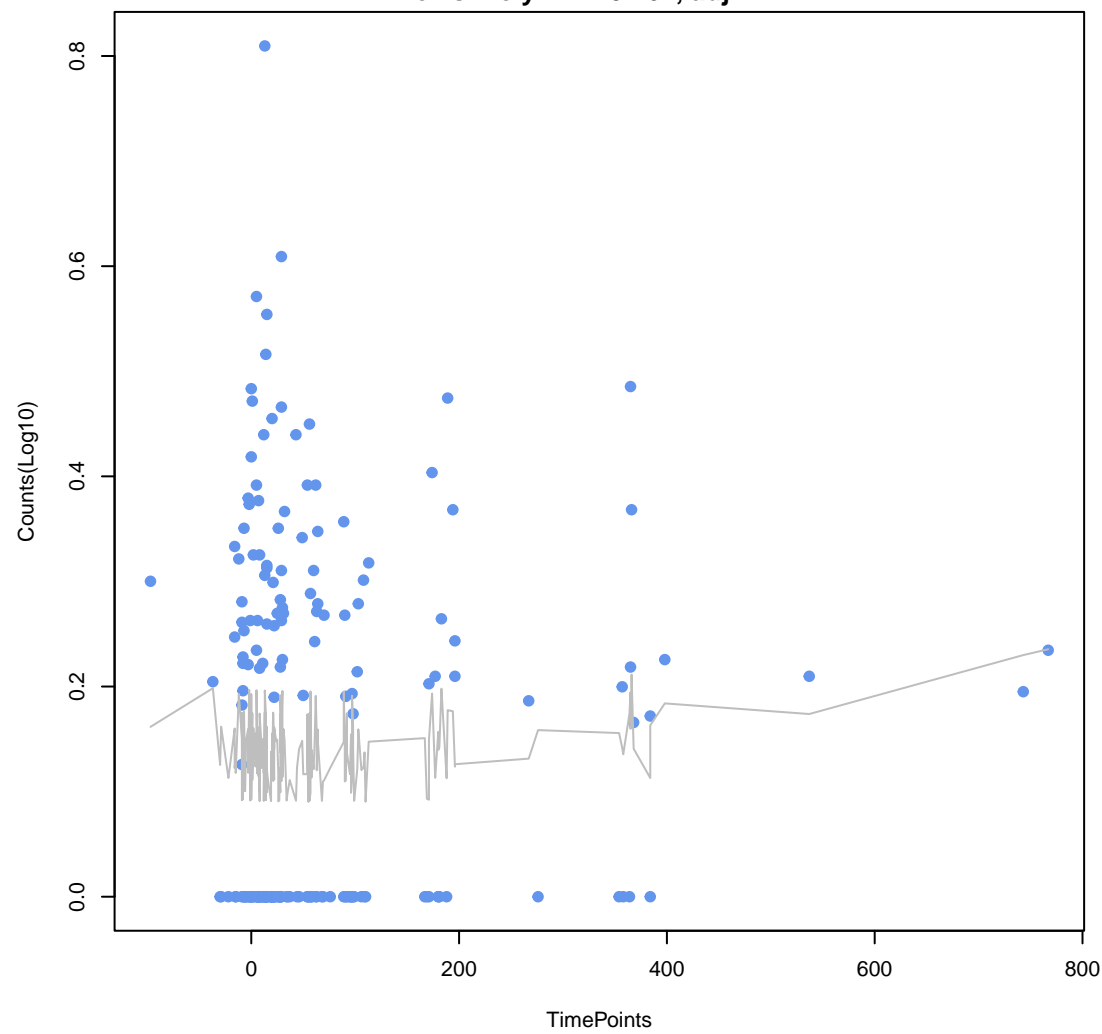
ToIC
ANOVA P=0.572, adj. ANOVA-P=0.785
Line vs. Poly F-P=0.117, adj. F-P=0.704



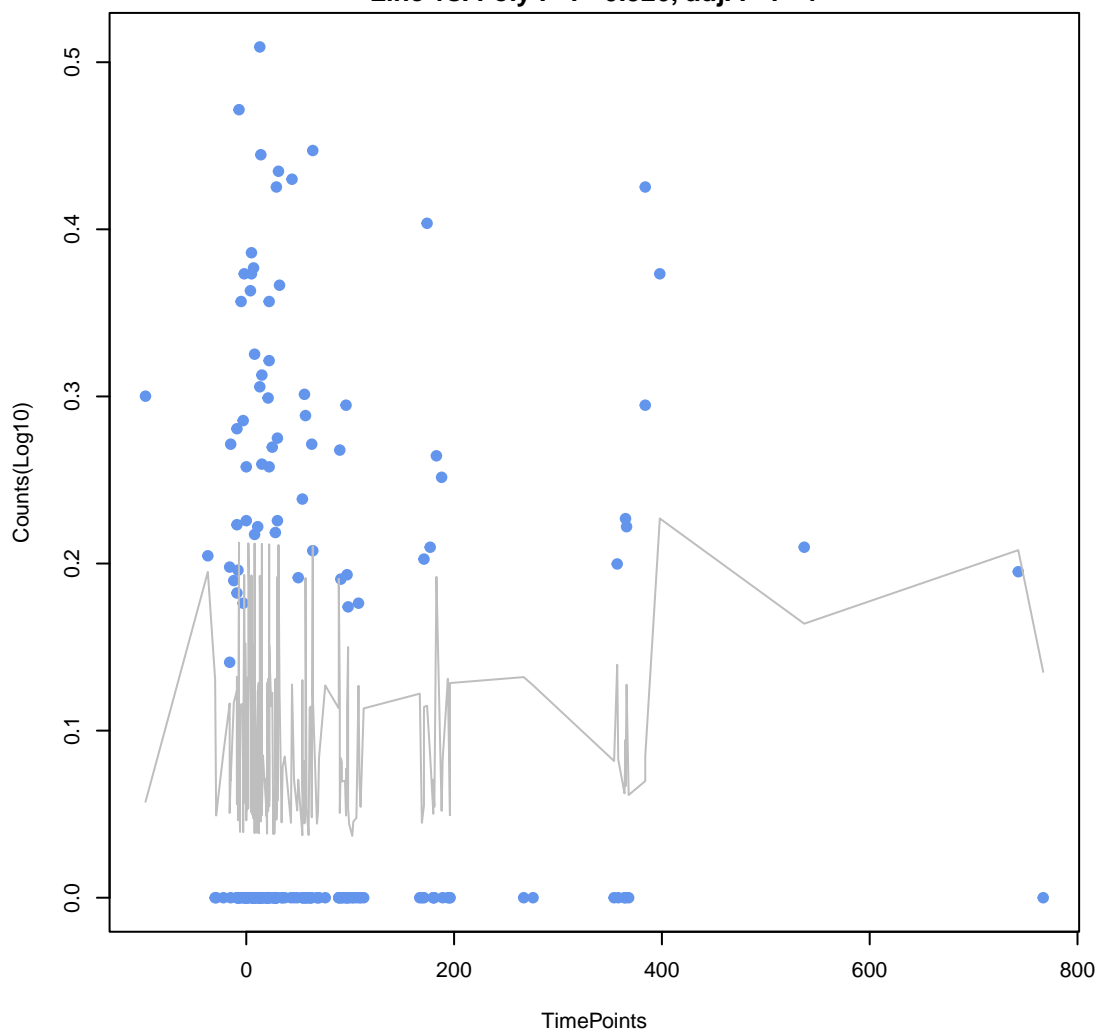
mdtC
ANOVA P=0.585, adj. ANOVA-P=0.793
Line vs. Poly F-P=1, adj. F-P=1



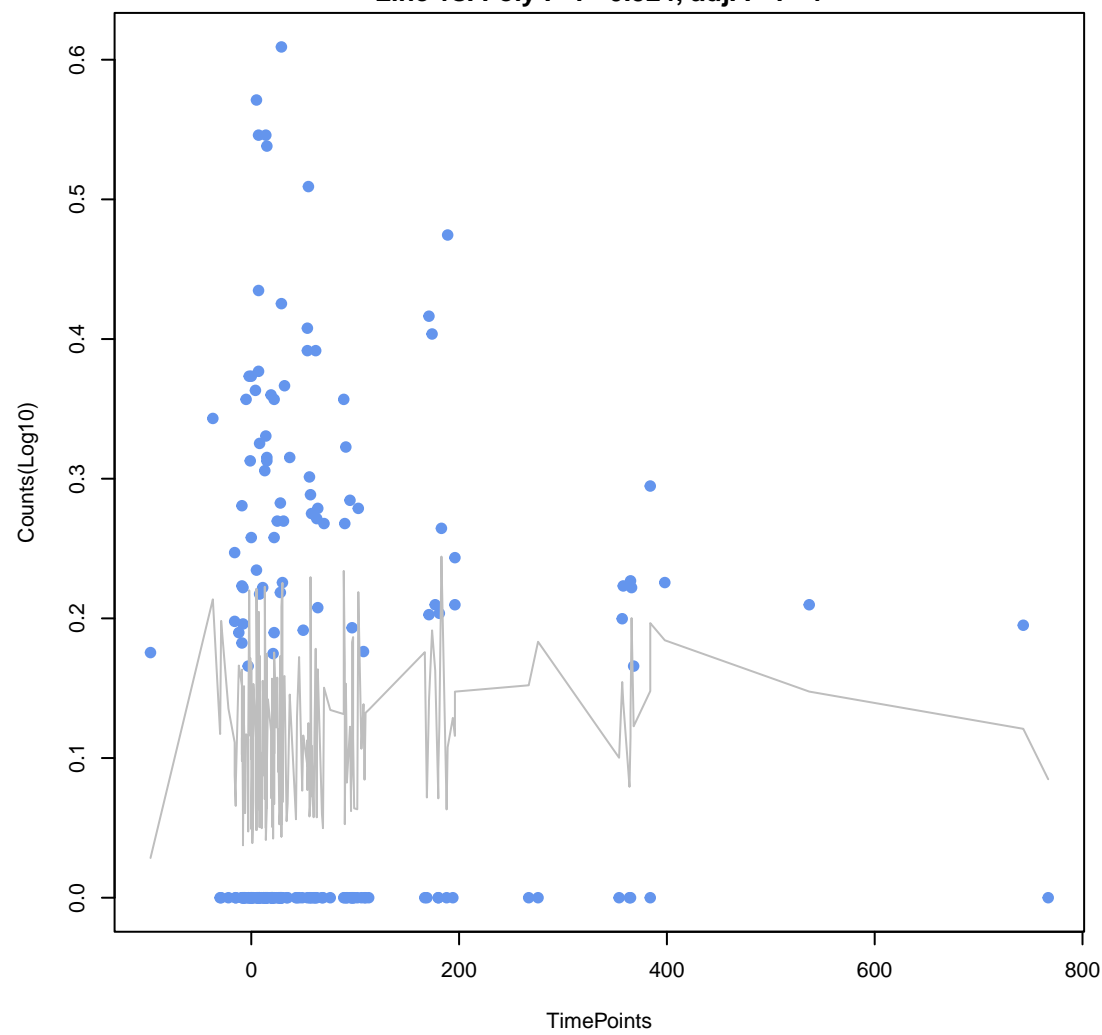
Escherichia coli acrA
ANOVA P=0.593, adj. ANOVA-P=0.793
Line vs. Poly F-P=0.462, adj. F-P=1



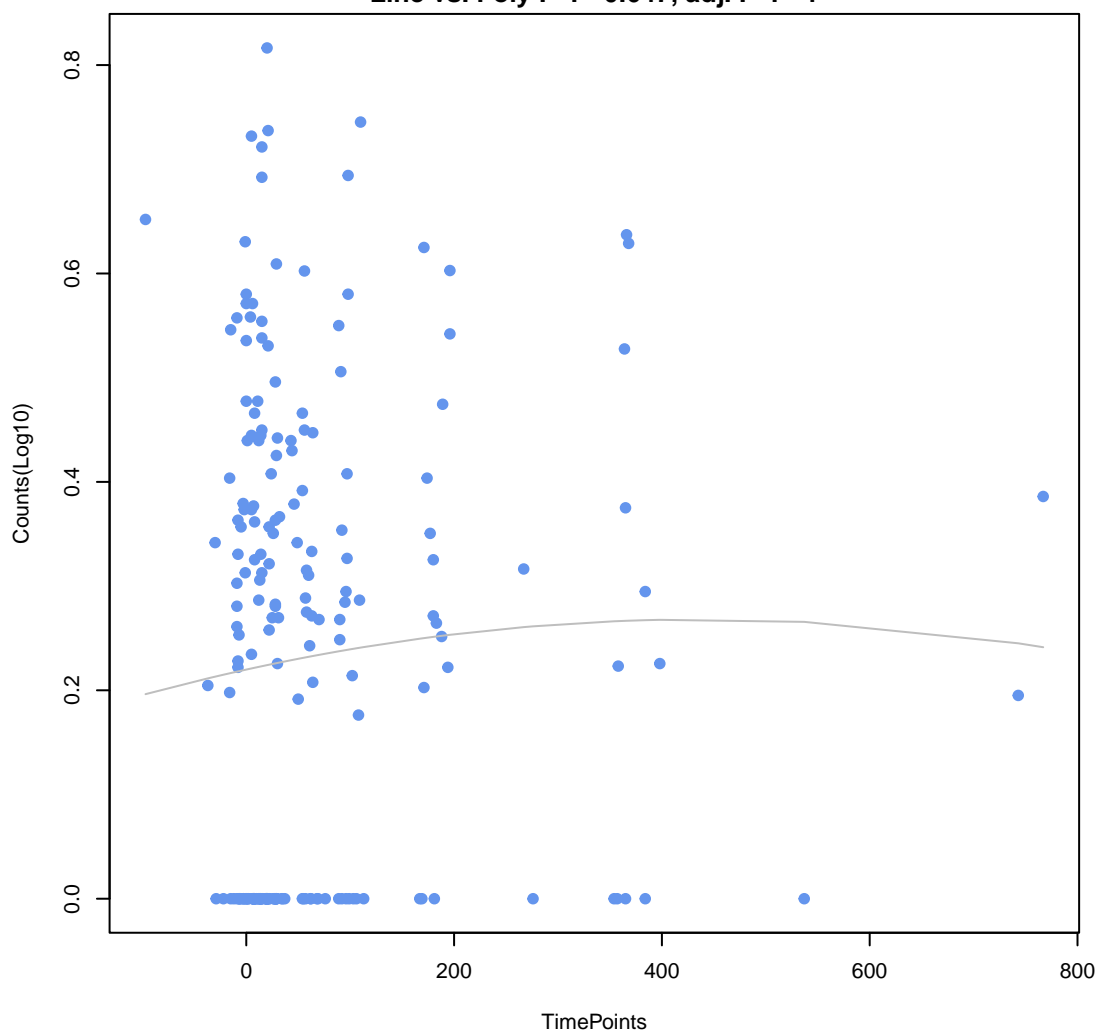
Escherichia coli AcrAB-TolC with AcrR mutation conferring resistance to ciprofloxacin, tetracycline
ANOVA P=0.638, adj. ANOVA-P=0.843
Line vs. Poly F-P=0.526, adj. F-P=1



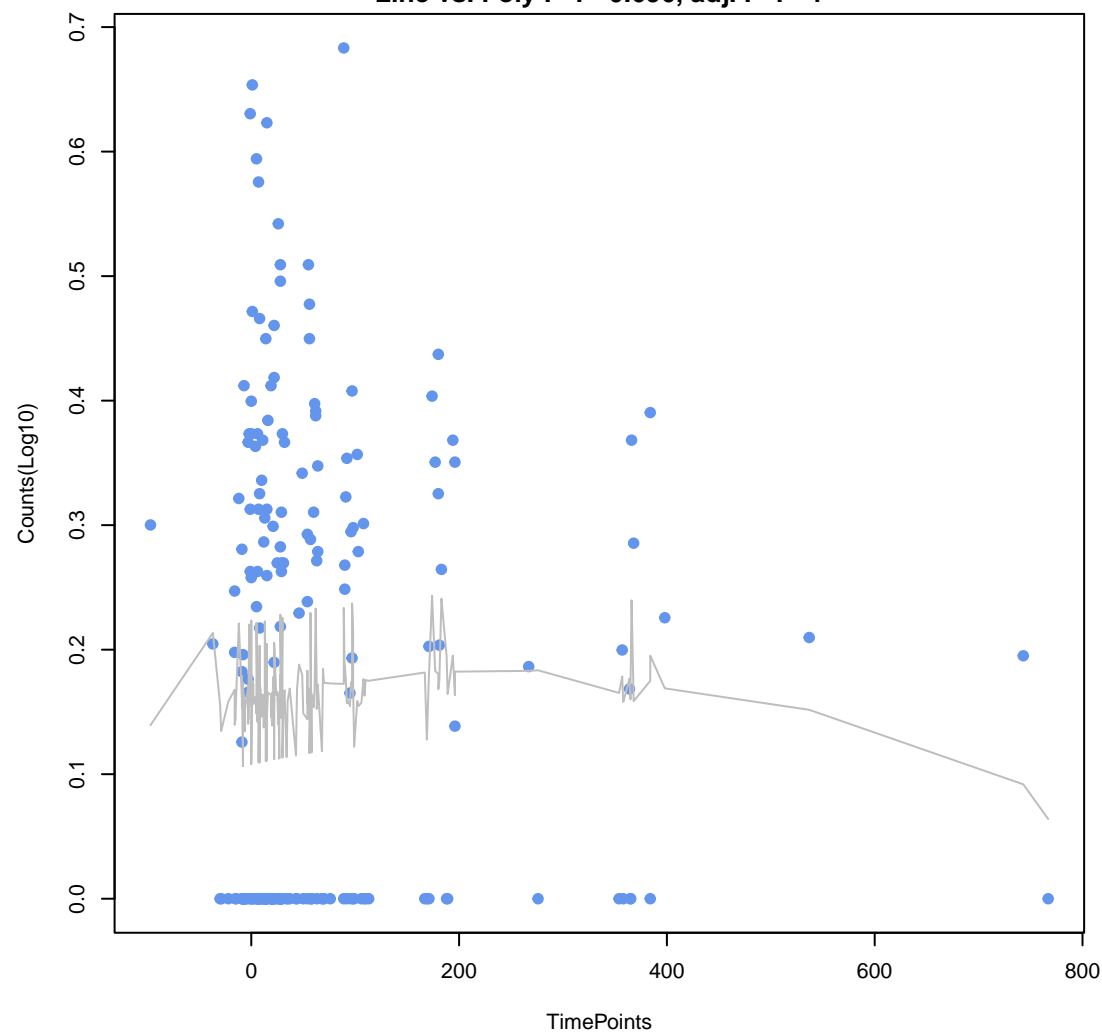
Escherichia coli soxR with mutation conferring antibiotic resistance
ANOVA P=0.651, adj. ANOVA-P=0.849
Line vs. Poly F-P=0.524, adj. F-P=1



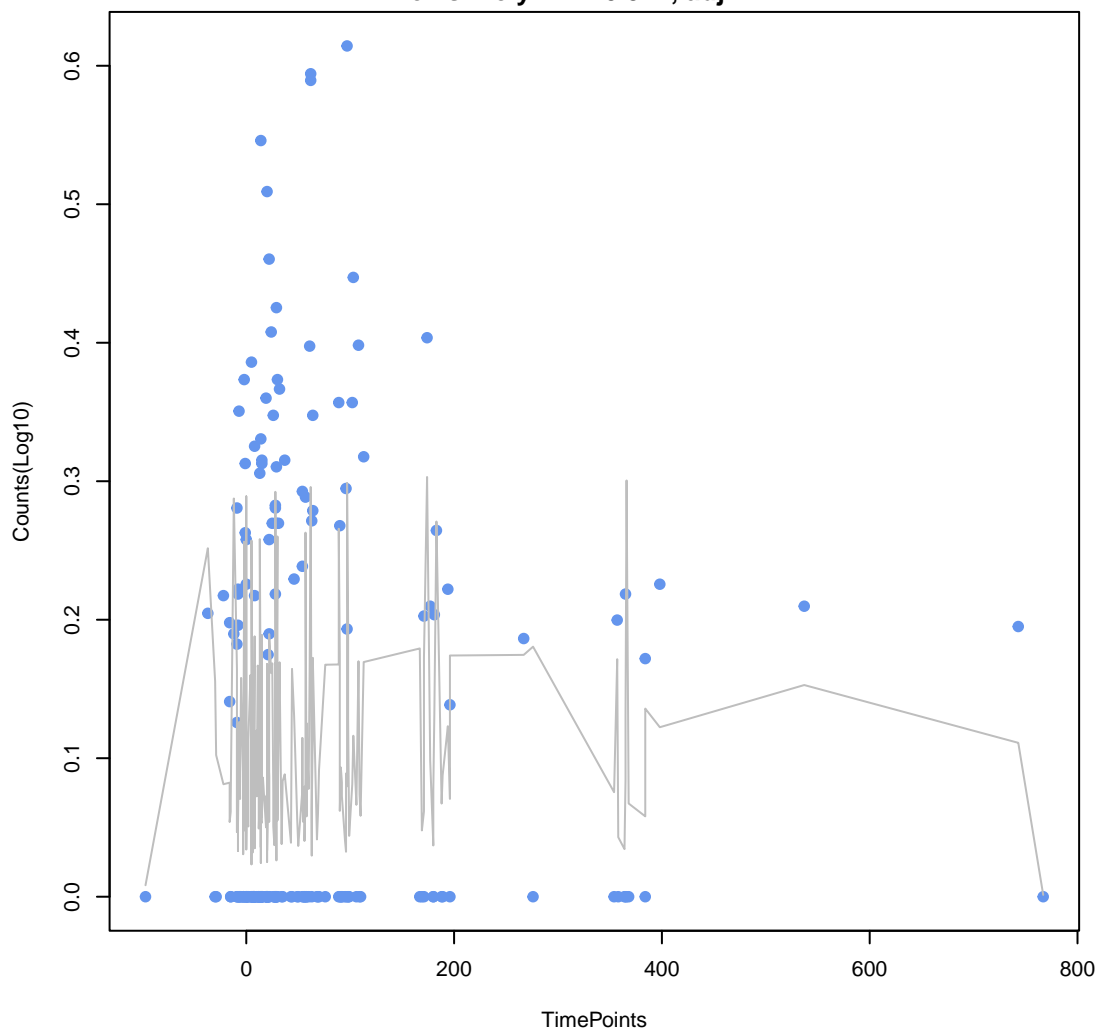
AcrF
ANOVA P=0.691, adj. ANOVA-P=0.891
Line vs. Poly F-P=0.647, adj. F-P=1



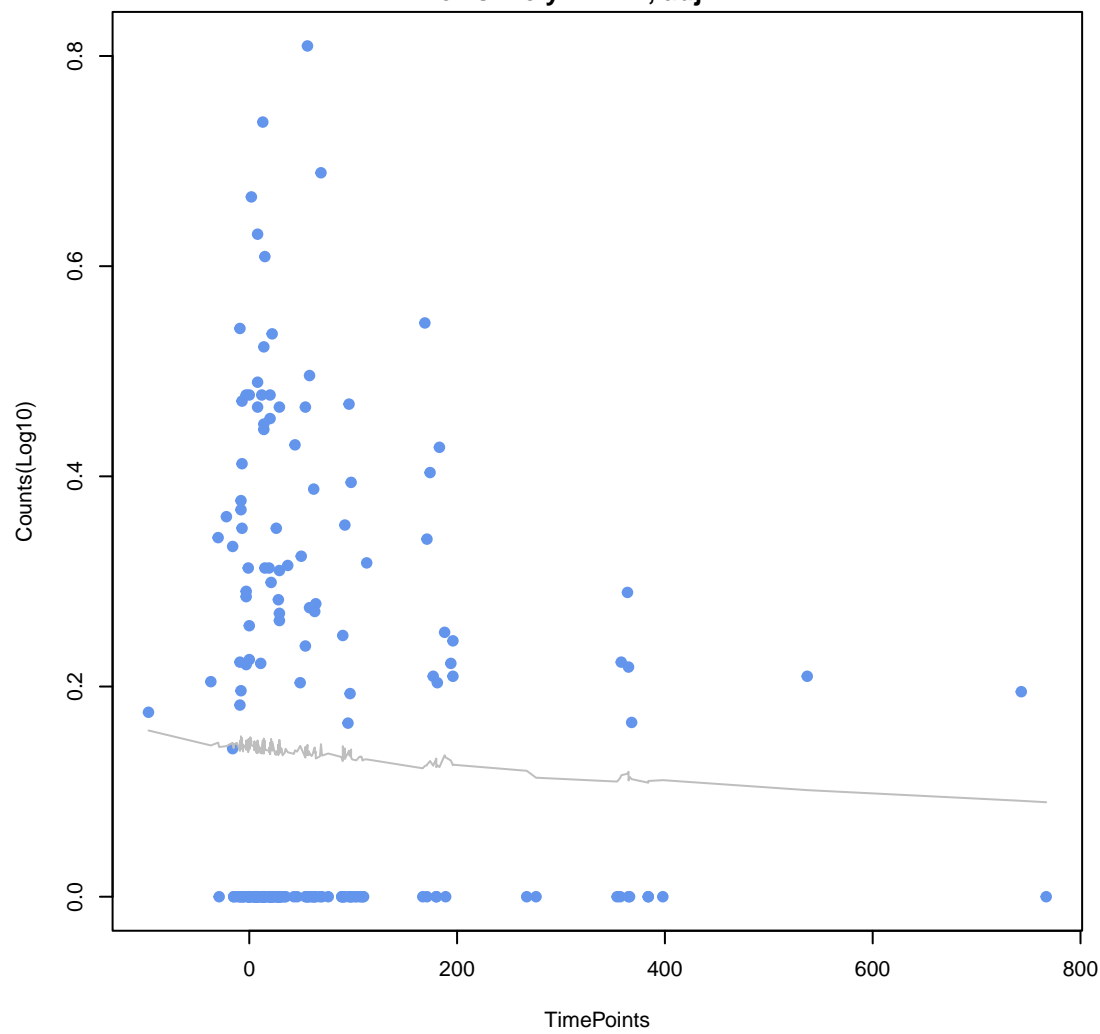
emrA
ANOVA P=0.7, adj. ANOVA-P=0.892
Line vs. Poly F-P=0.696, adj. F-P=1



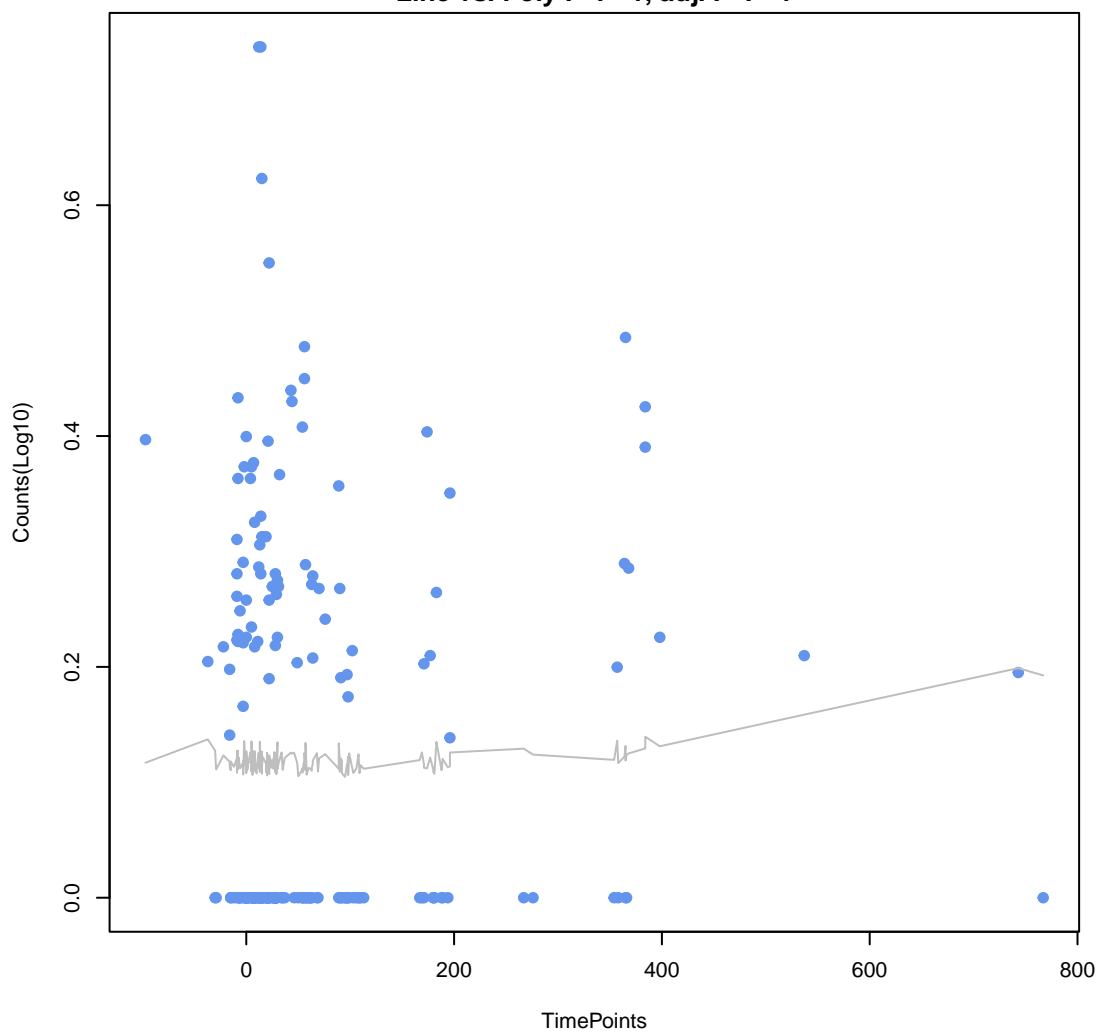
rsmA
ANOVA P=0.742, adj. ANOVA-P=0.934
Line vs. Poly F-P=0.542, adj. F-P=1



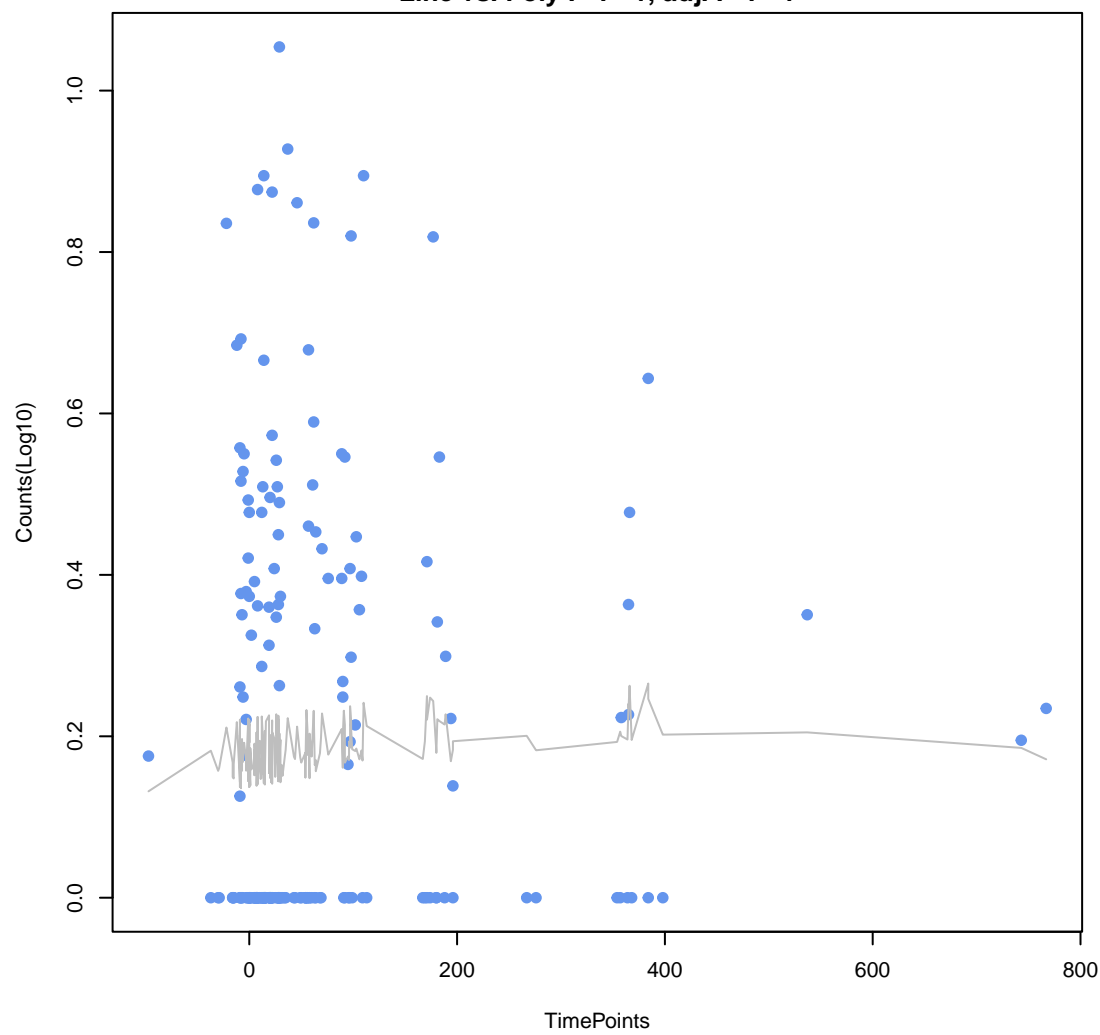
Bifidobacterium bifidum ileS conferring resistance to mupirocin
ANOVA P=0.776, adj. ANOVA-P=0.954
Line vs. Poly F-P=1, adj. F-P=1



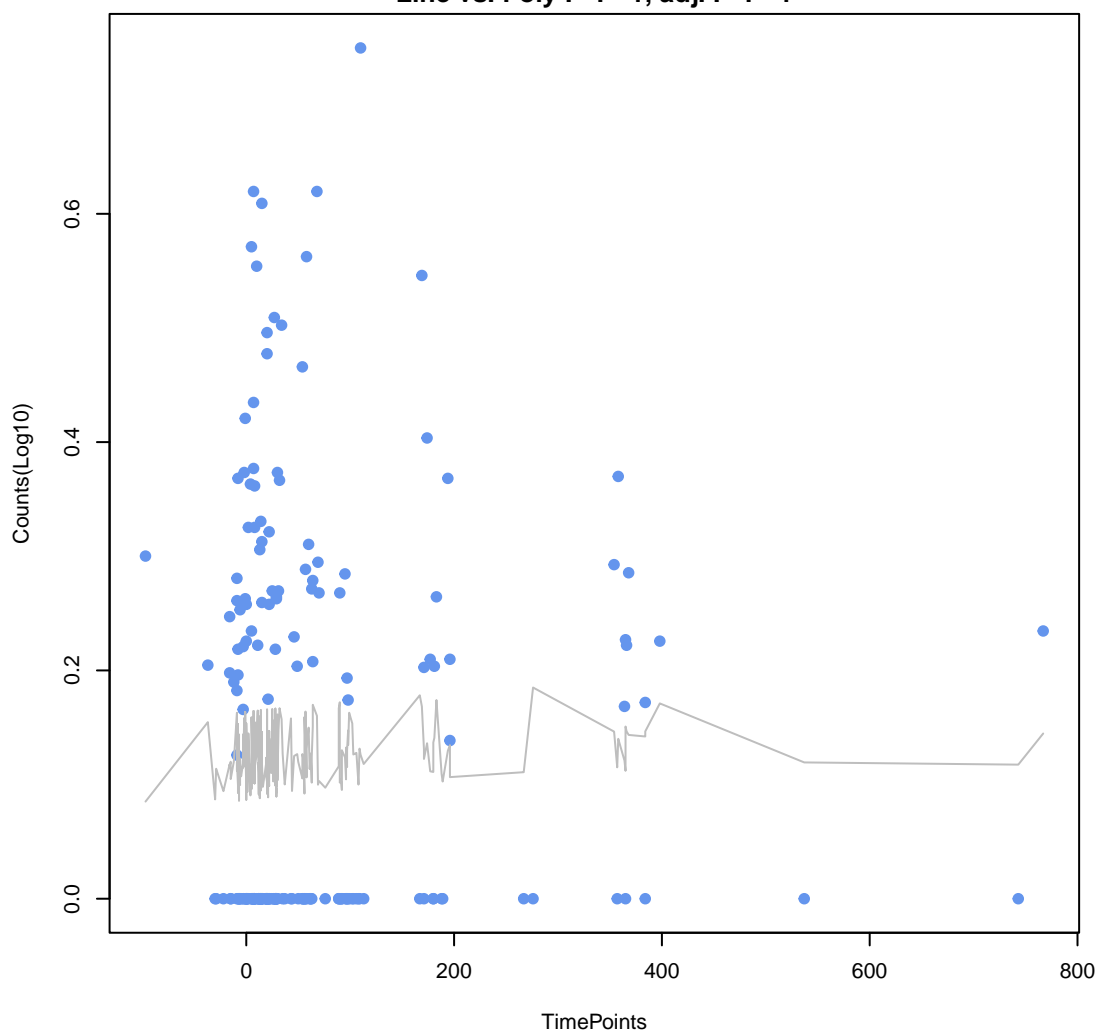
mdtA
ANOVA P=0.776, adj. ANOVA-P=0.954
Line vs. Poly F-P=1, adj. F-P=1



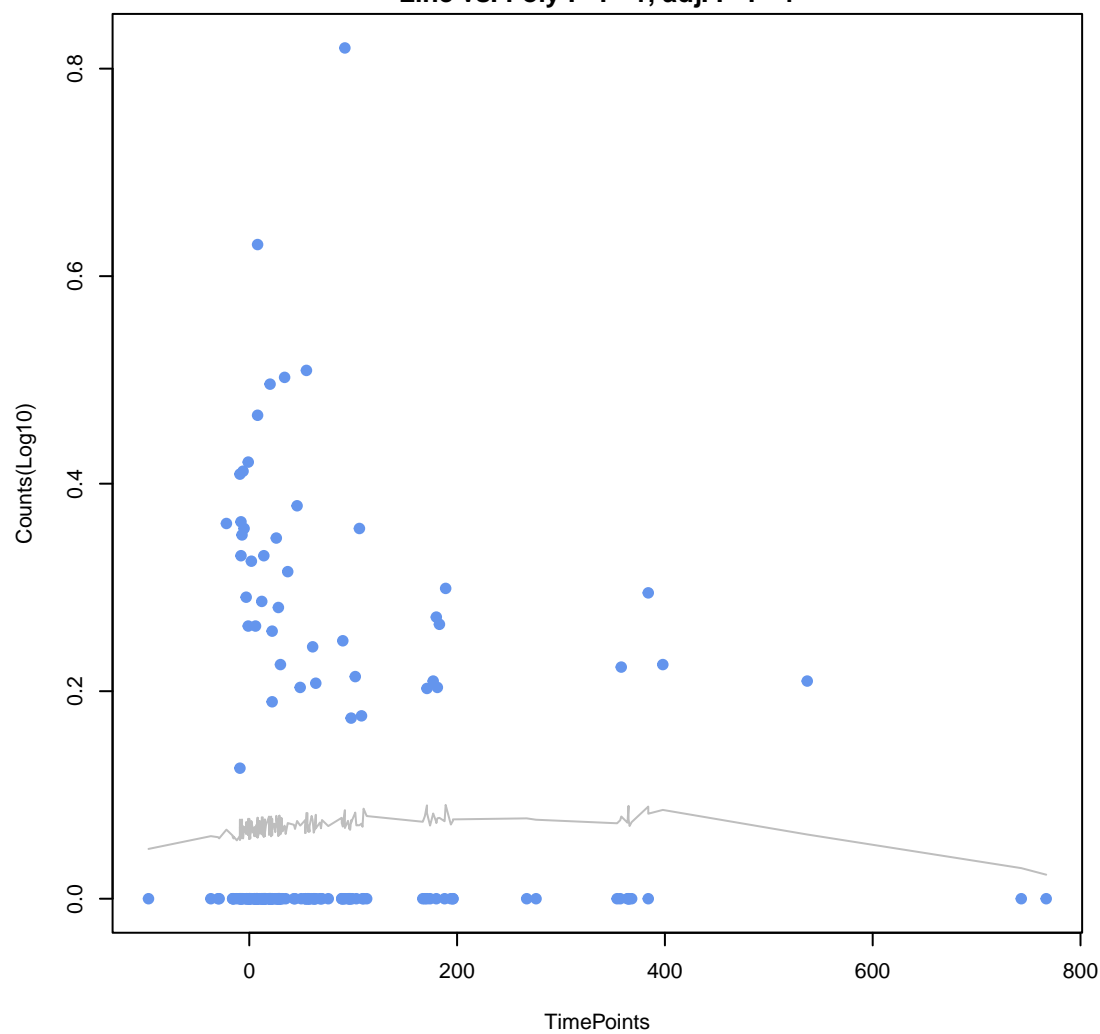
oqxB
ANOVA P=0.792, adj. ANOVA-P=0.962
Line vs. Poly F-P=1, adj. F-P=1



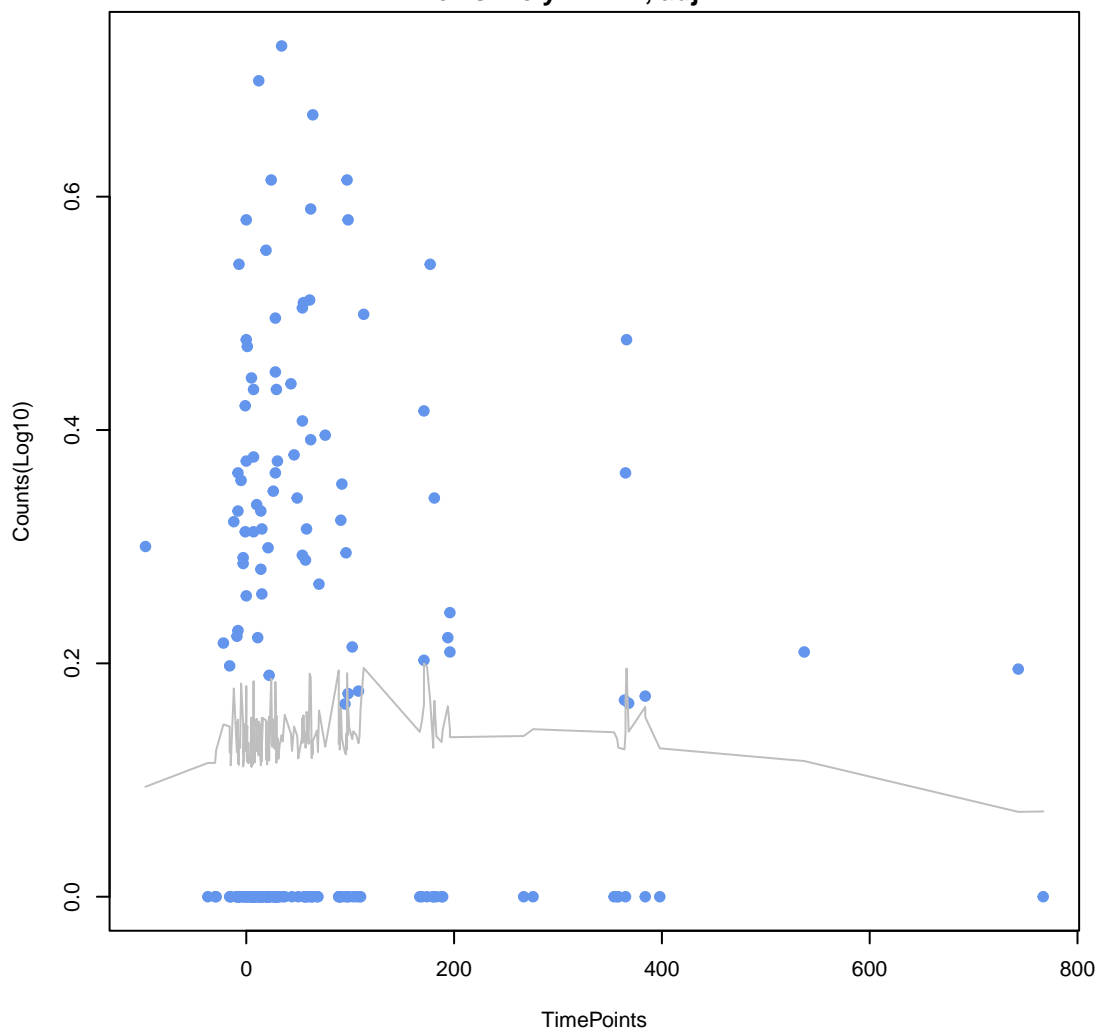
AcrE
ANOVA P=0.825, adj. ANOVA-P=0.962
Line vs. Poly F-P=1, adj. F-P=1



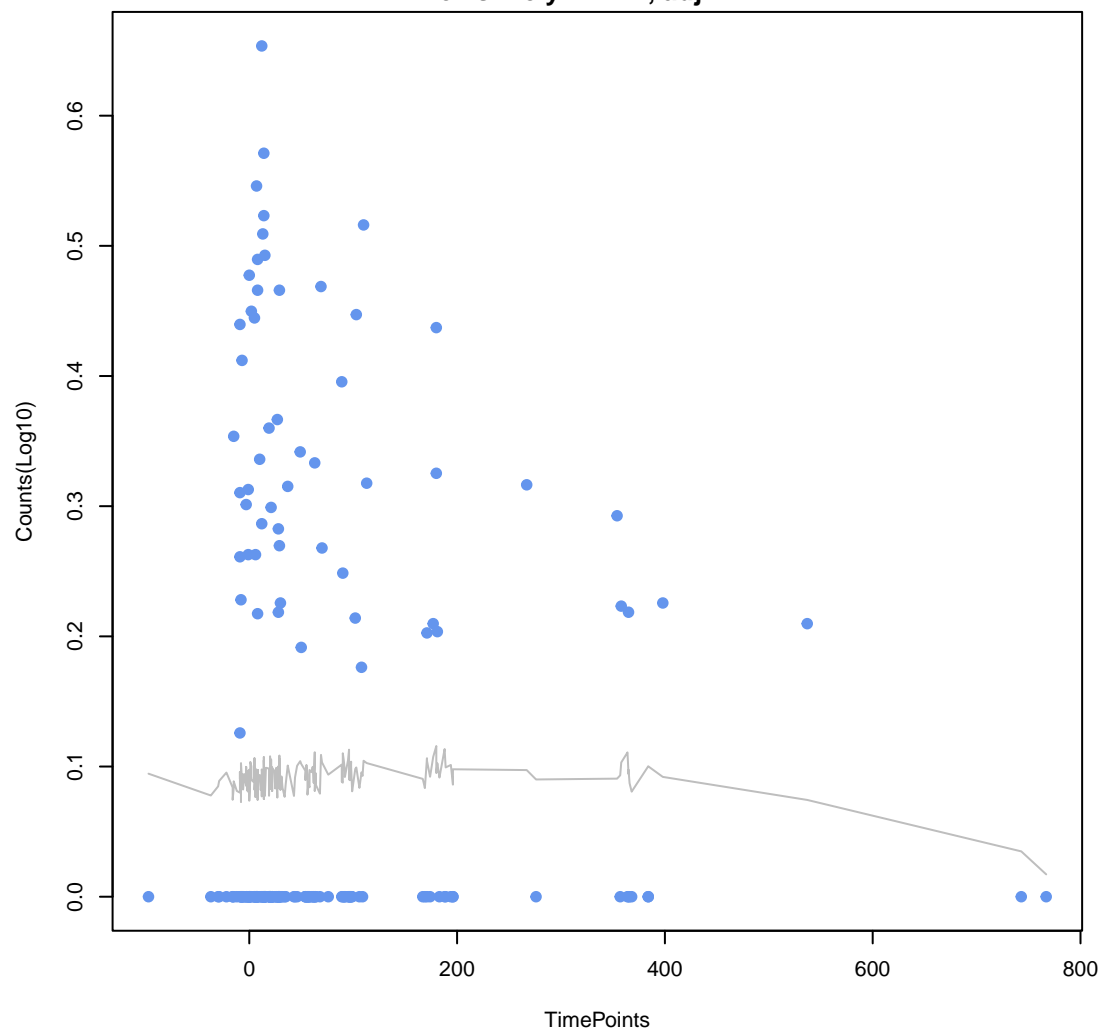
Klebsiella pneumoniae acrA
ANOVA P=0.828, adj. ANOVA-P=0.962
Line vs. Poly F-P=1, adj. F-P=1



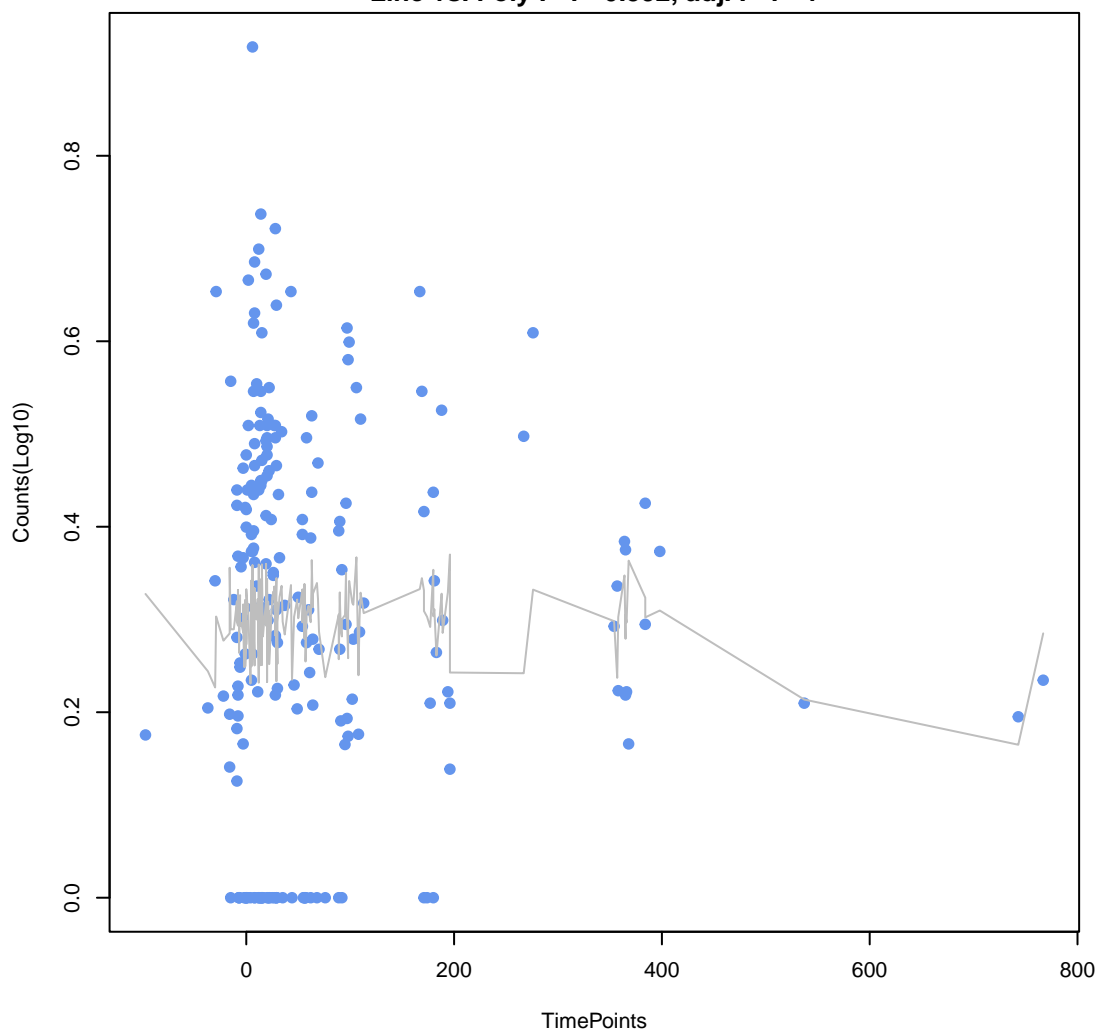
Klebsiella pneumoniae KpnH
ANOVA P=0.836, adj. ANOVA-P=0.962
Line vs. Poly F-P=1, adj. F-P=1



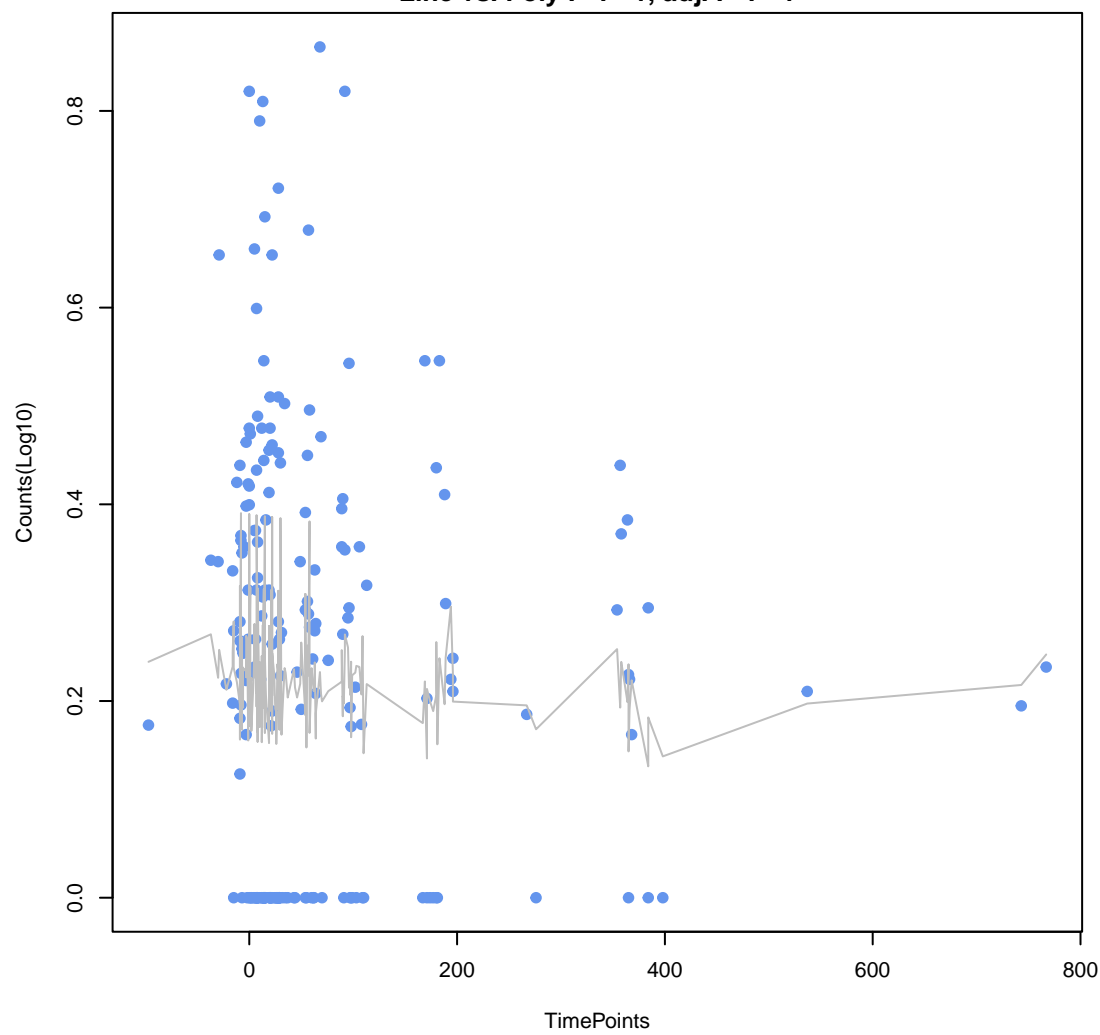
oleB
ANOVA P=0.837, adj. ANOVA-P=0.962
Line vs. Poly F-P=1, adj. F-P=1



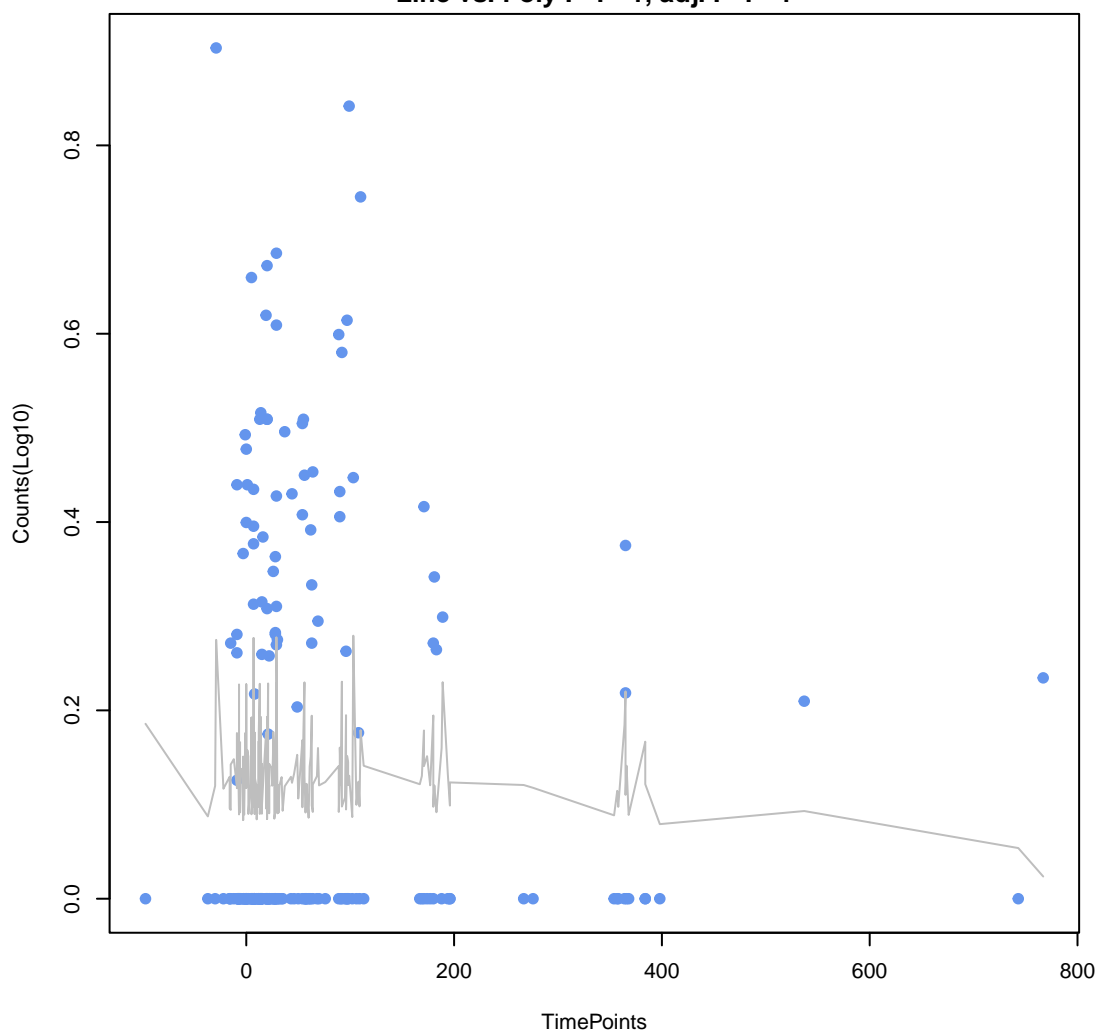
aad(6)
ANOVA P=0.84, adj. ANOVA-P=0.962
Line vs. Poly F-P=0.592, adj. F-P=1



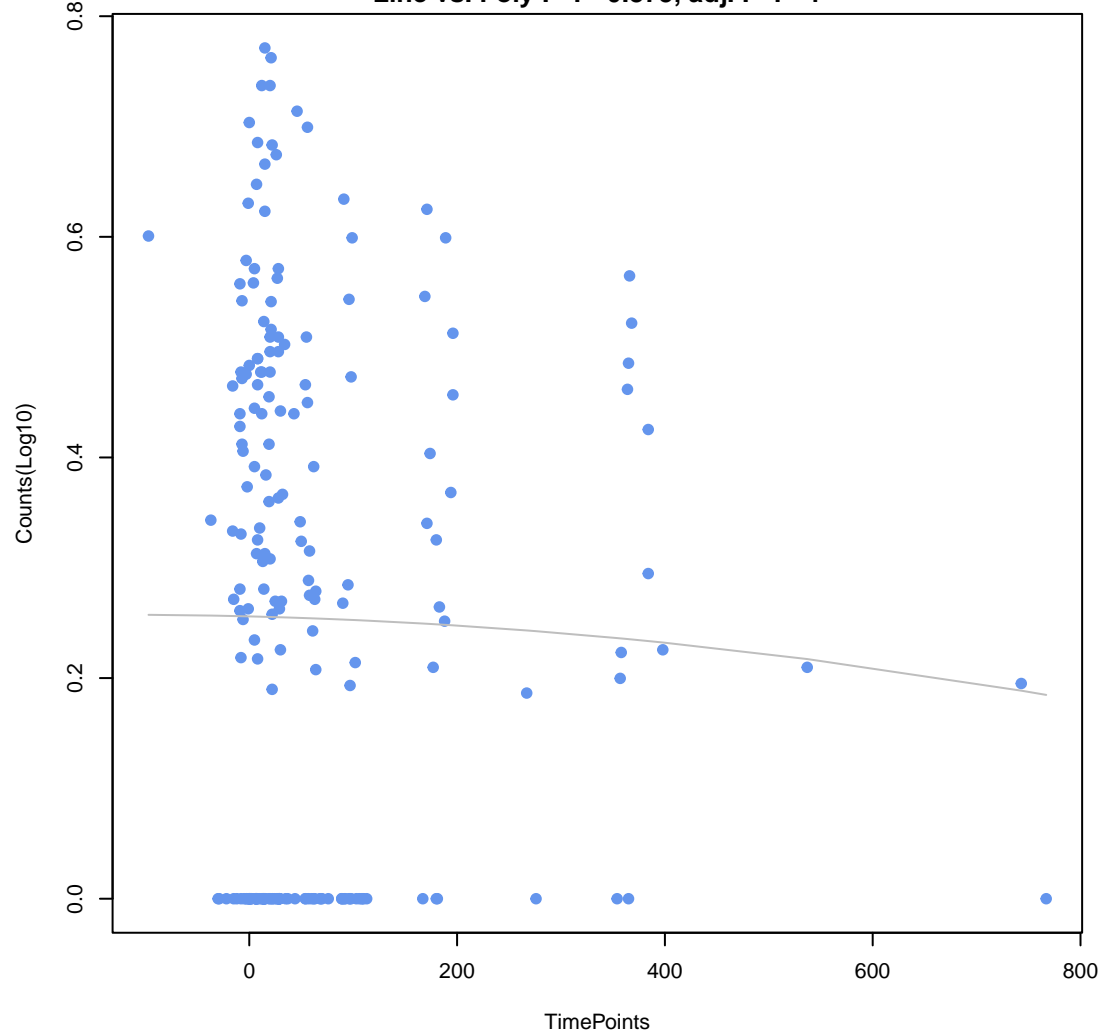
InuC
ANOVA P=0.864, adj. ANOVA-P=0.962
Line vs. Poly F-P=1, adj. F-P=1



tetB(60)
ANOVA P=0.872, adj. ANOVA-P=0.962
Line vs. Poly F-P=1, adj. F-P=1

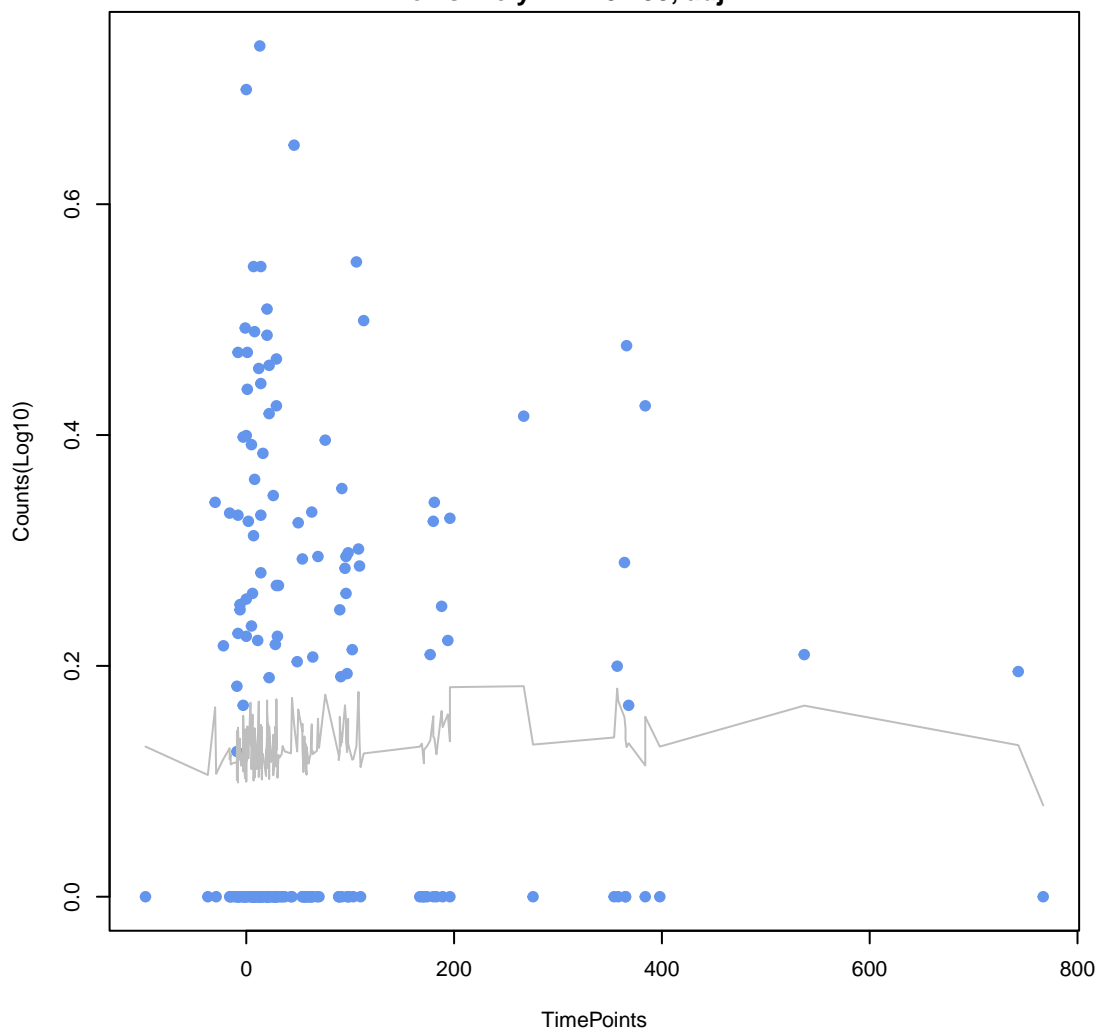


evgS
ANOVA P=0.876, adj. ANOVA-P=0.962
Line vs. Poly F-P=0.875, adj. F-P=1



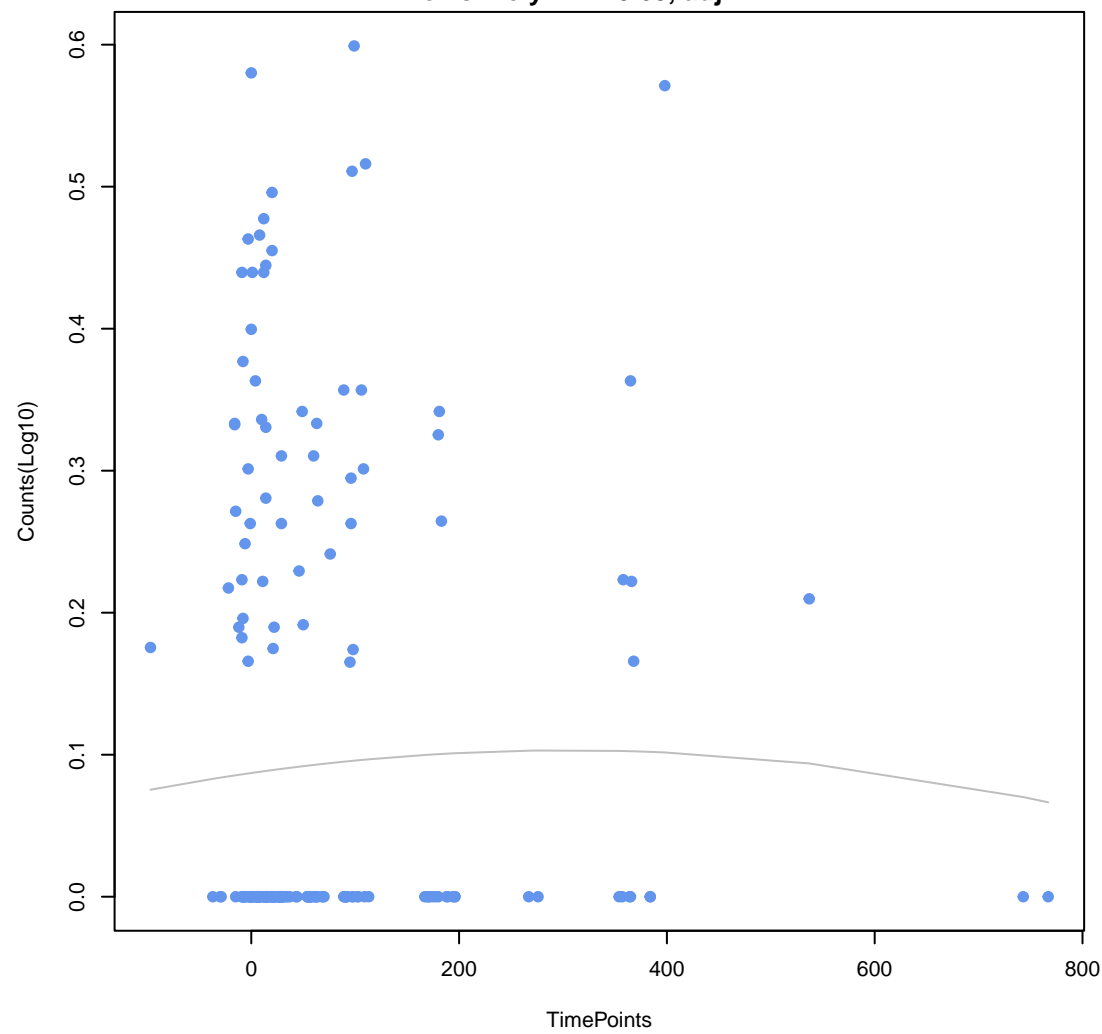
MuxC

ANOVA P=0.88, adj. ANOVA-P=0.962
Line vs. Poly F-P=0.458, adj. F-P=1

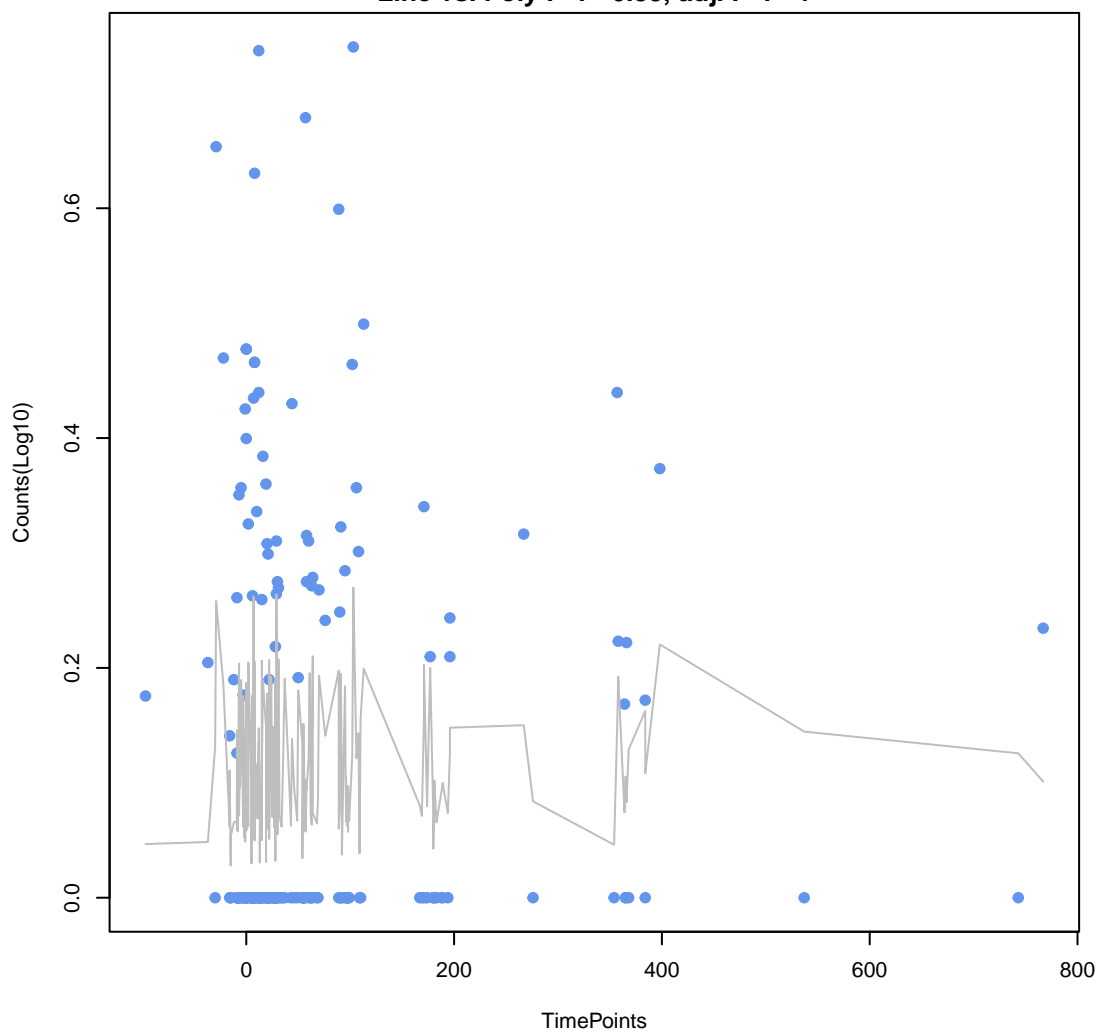


TaeA

ANOVA P=0.881, adj. ANOVA-P=0.962
Line vs. Poly F-P=0.65, adj. F-P=1

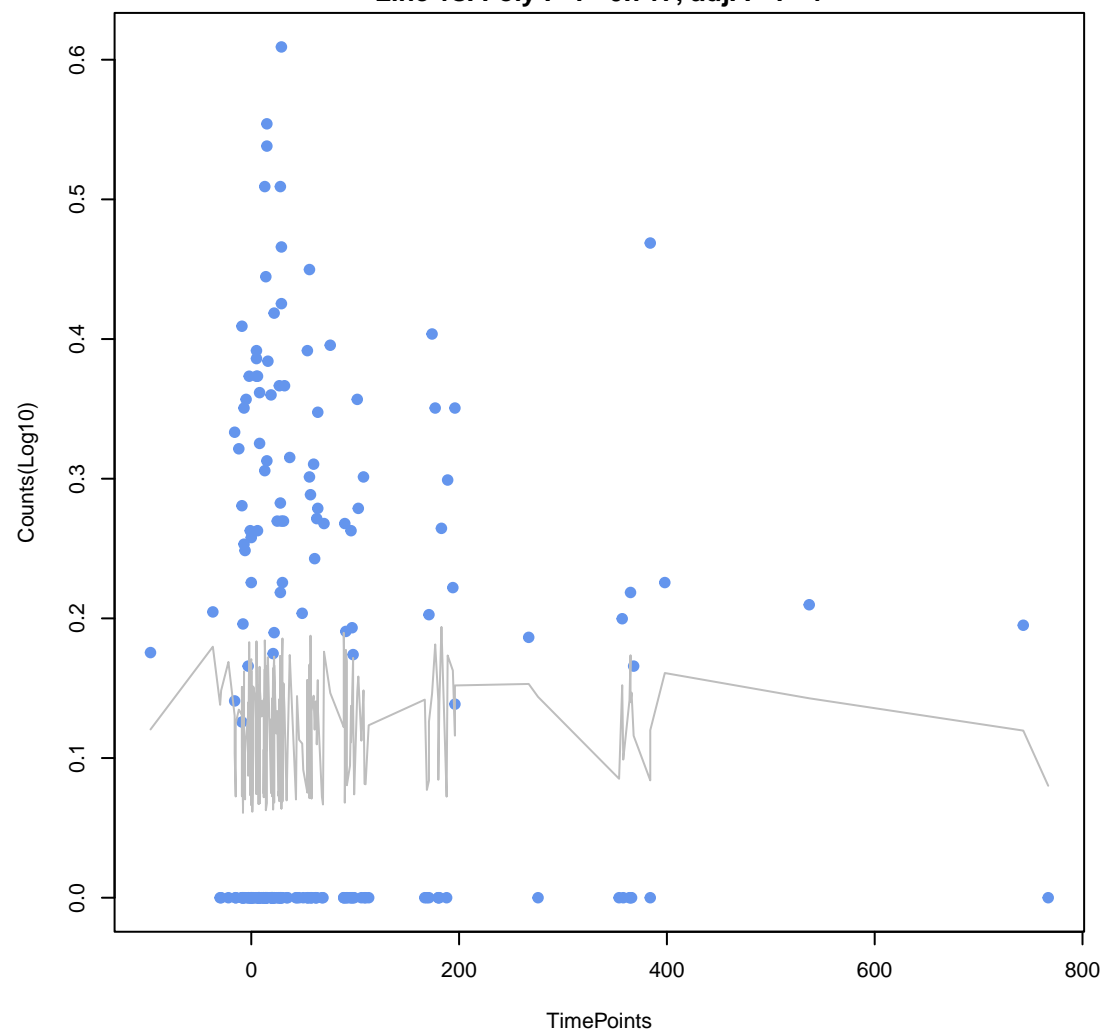


vanX gene in vanD cluster
ANOVA P=0.899, adj. ANOVA-P=0.964
Line vs. Poly F-P=0.83, adj. F-P=1

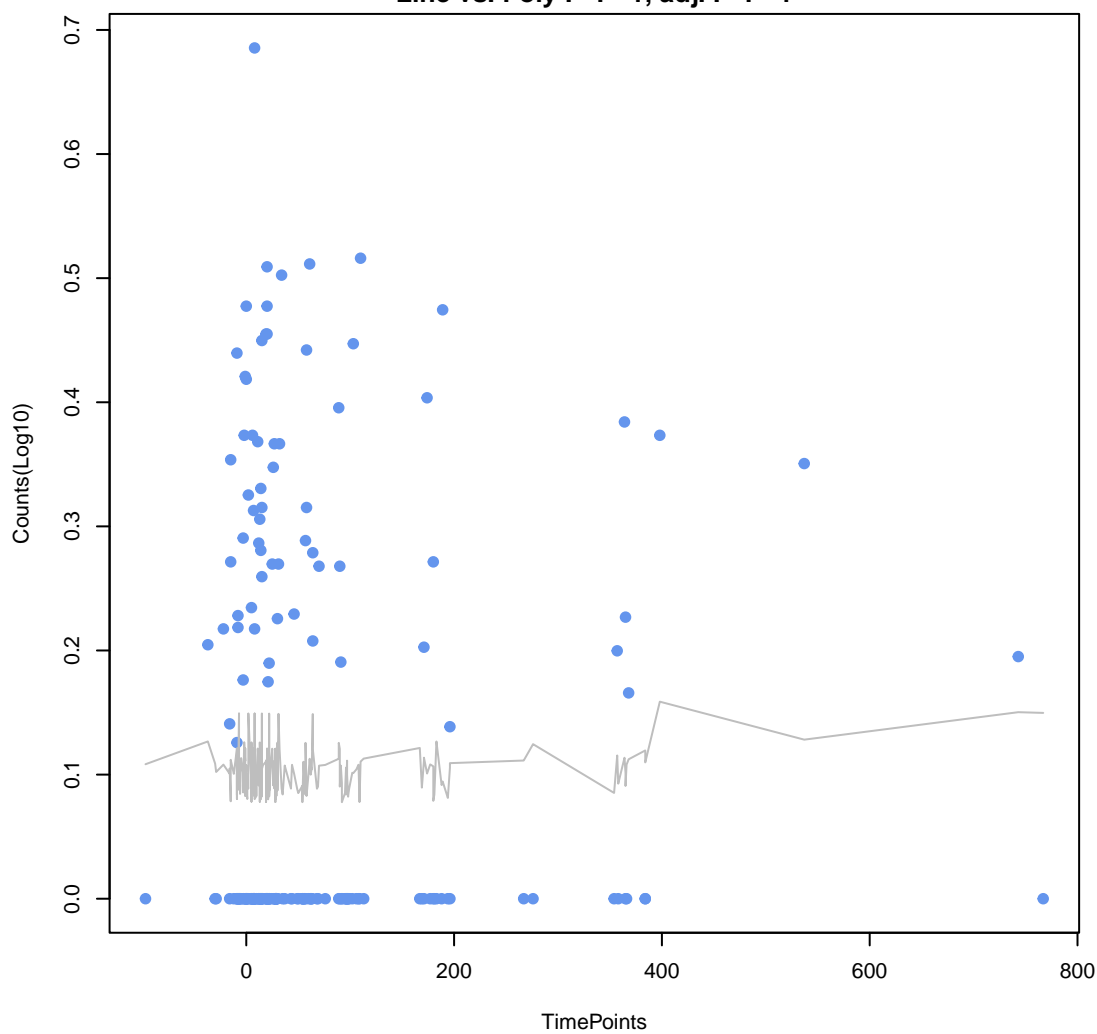


kdpE

ANOVA P=0.912, adj. ANOVA-P=0.964
Line vs. Poly F-P=0.717, adj. F-P=1

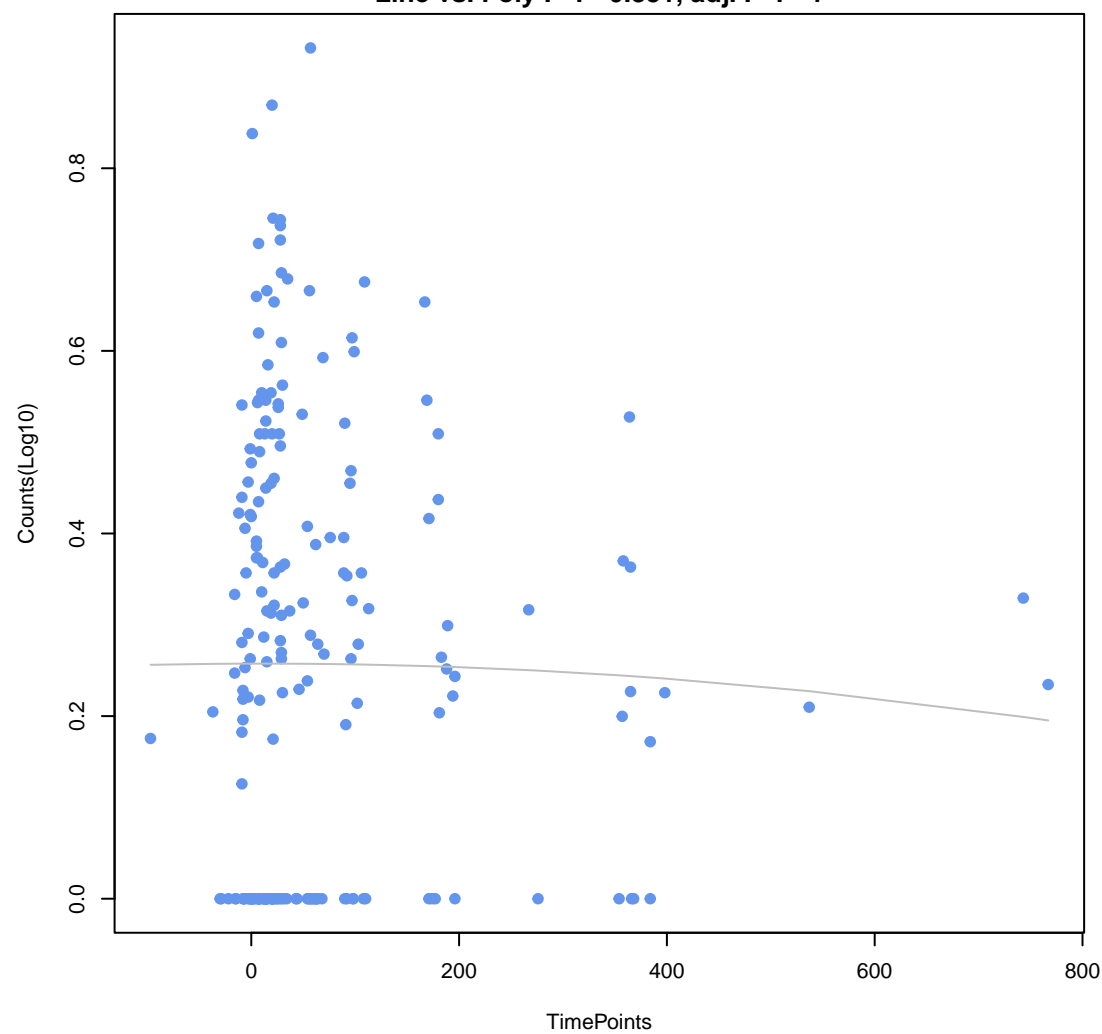


APH(3")-Ib
ANOVA P=0.915, adj. ANOVA-P=0.964
Line vs. Poly F-P=1, adj. F-P=1

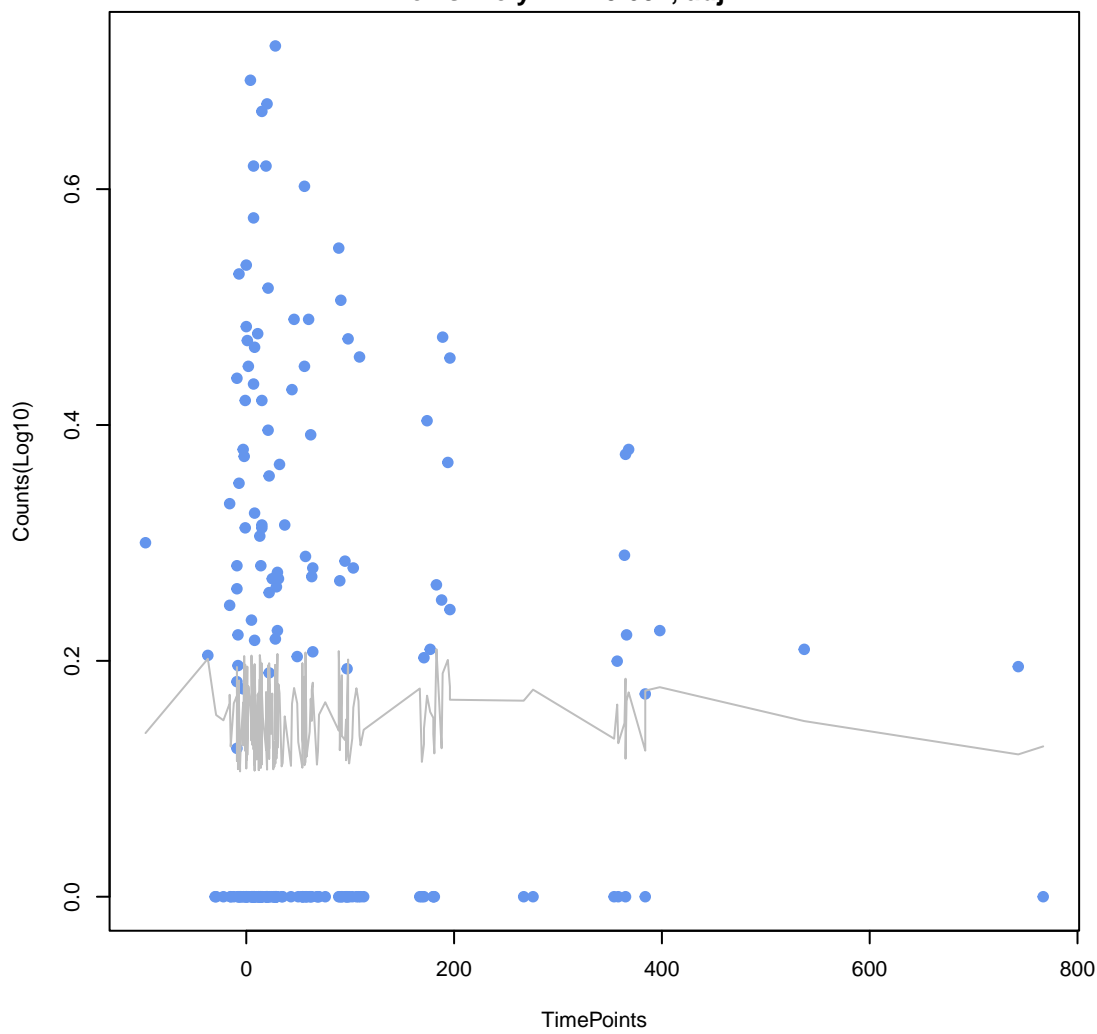


fexA

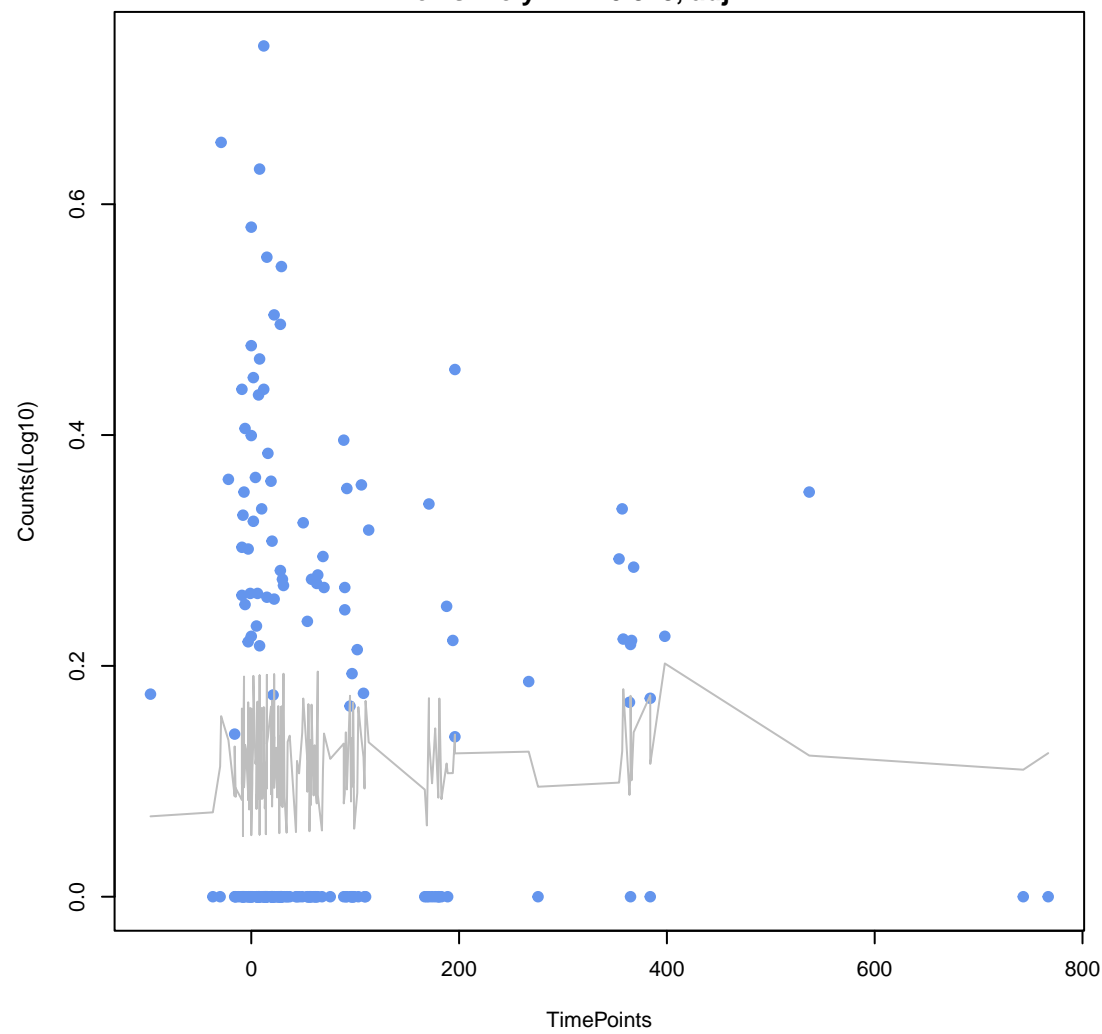
ANOVA P=0.919, adj. ANOVA-P=0.964
Line vs. Poly F-P=0.851, adj. F-P=1



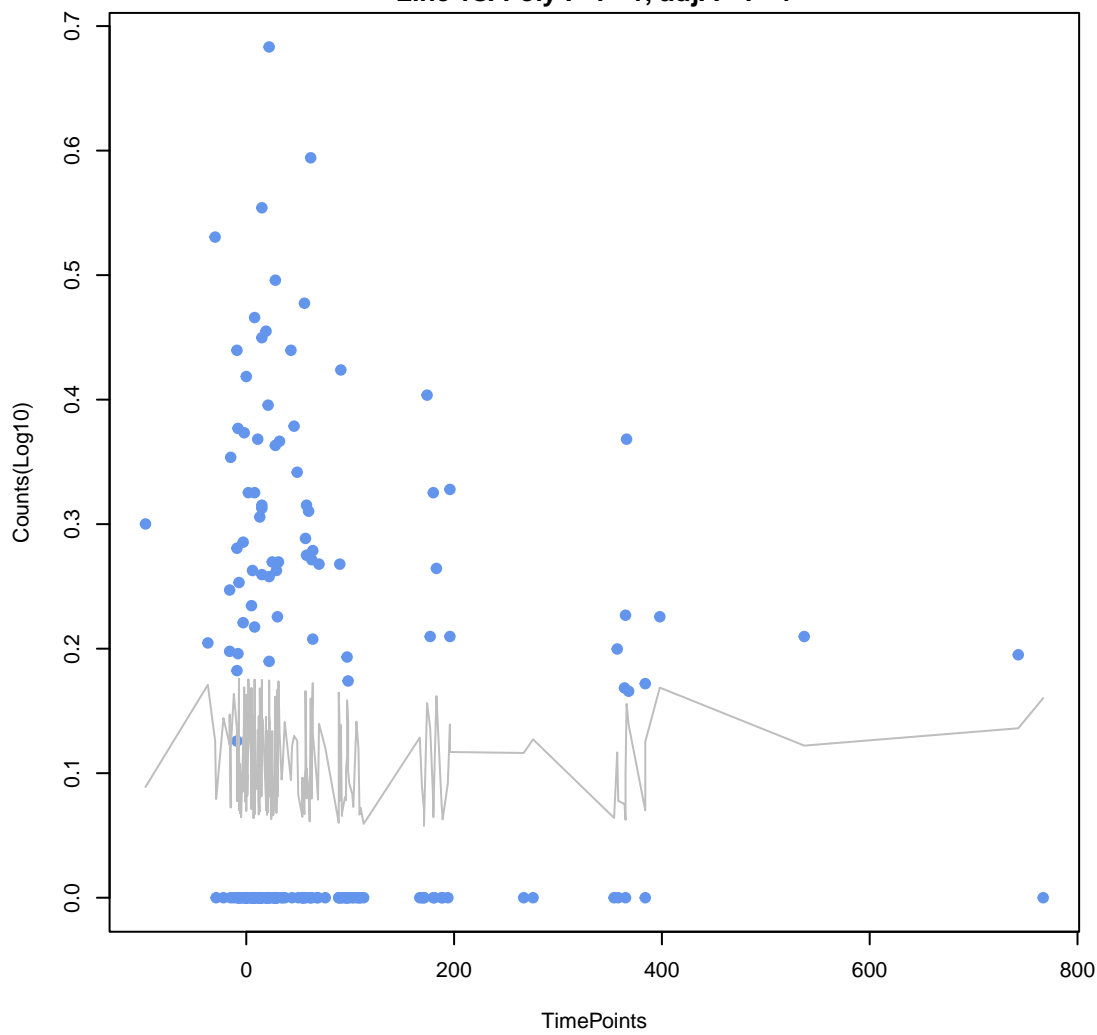
mdtP
ANOVA P=0.938, adj. ANOVA-P=0.974
Line vs. Poly F-P=0.607, adj. F-P=1



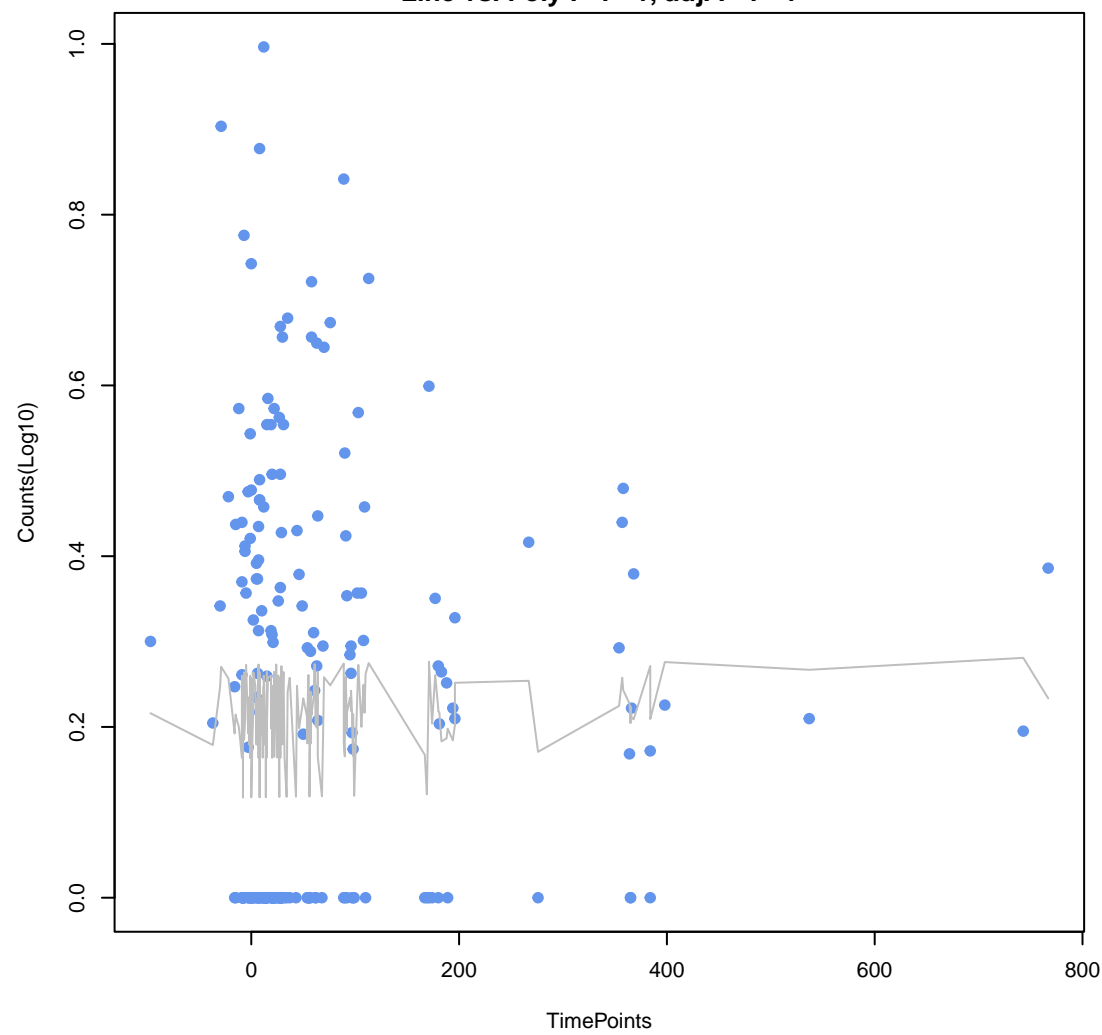
vanS gene in vanD cluster
ANOVA P=0.954, adj. ANOVA-P=0.977
Line vs. Poly F-P=0.878, adj. F-P=1



emrK
ANOVA P=0.964, adj. ANOVA-P=0.977
Line vs. Poly F-P=1, adj. F-P=1



vanR gene in vanD cluster
ANOVA P=0.968, adj. ANOVA-P=0.977
Line vs. Poly F-P=1, adj. F-P=1



CfxA3
ANOVA P=0.998, adj. ANOVA-P=0.998
Line vs. Poly F-P=1, adj. F-P=1

