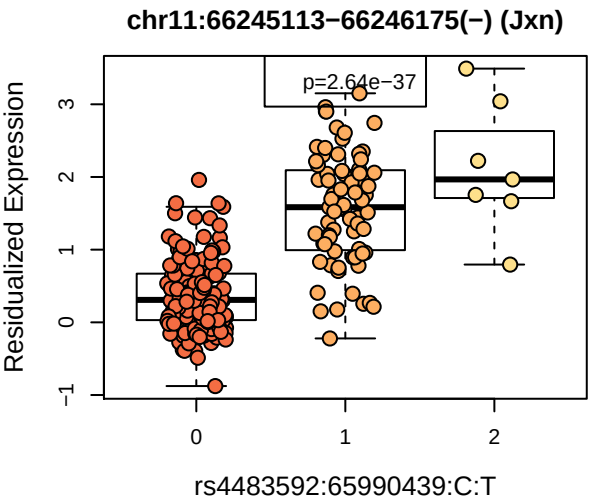
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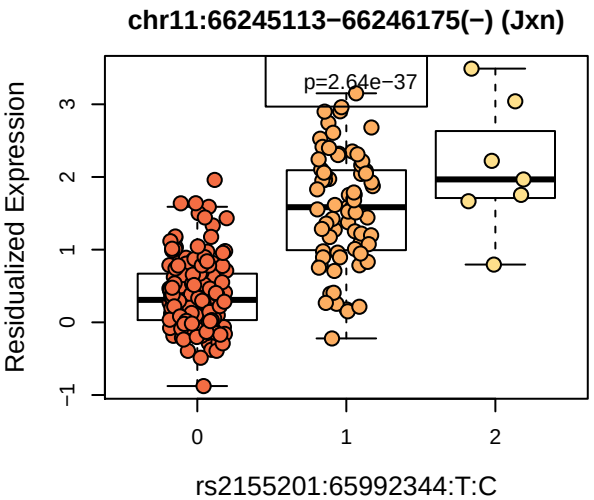
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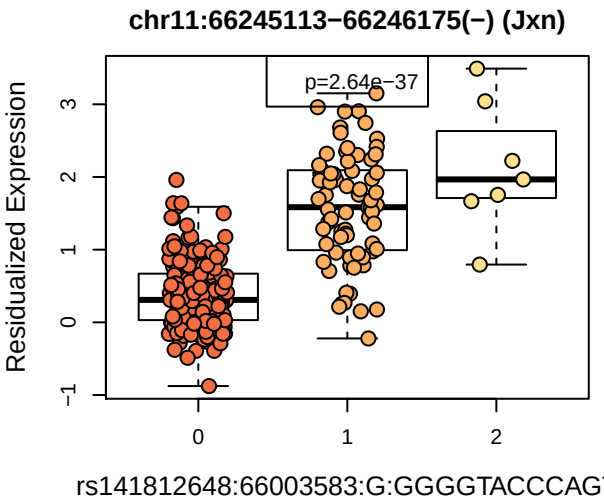
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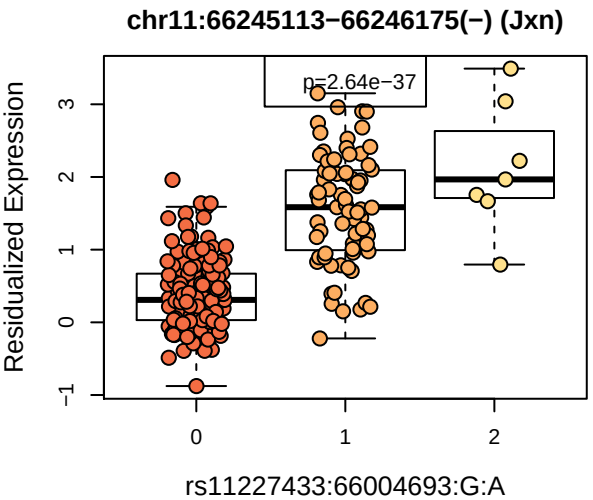
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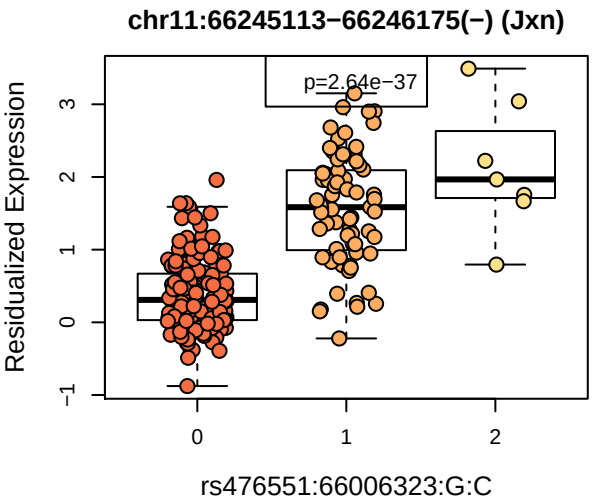
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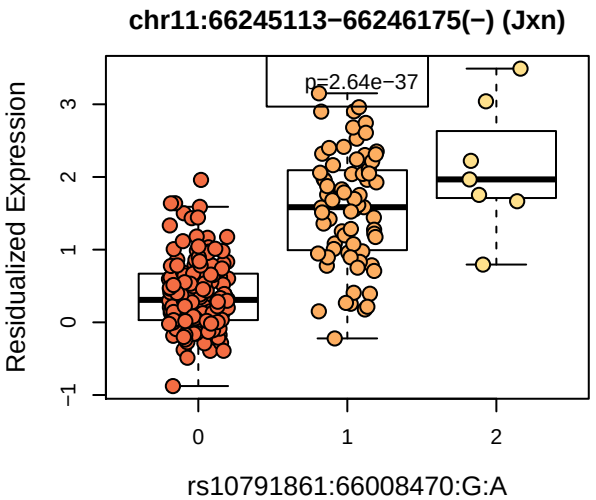
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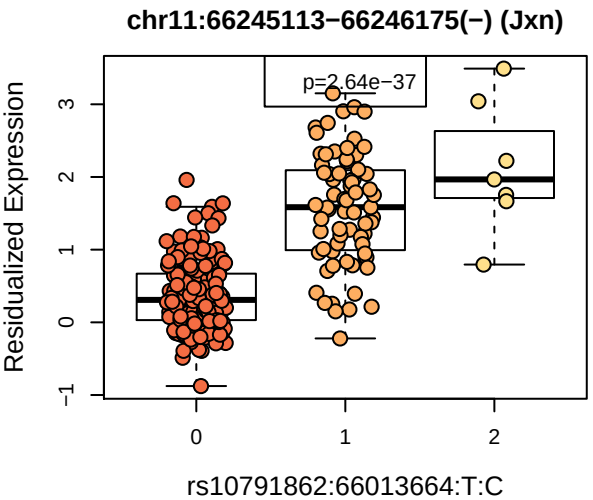
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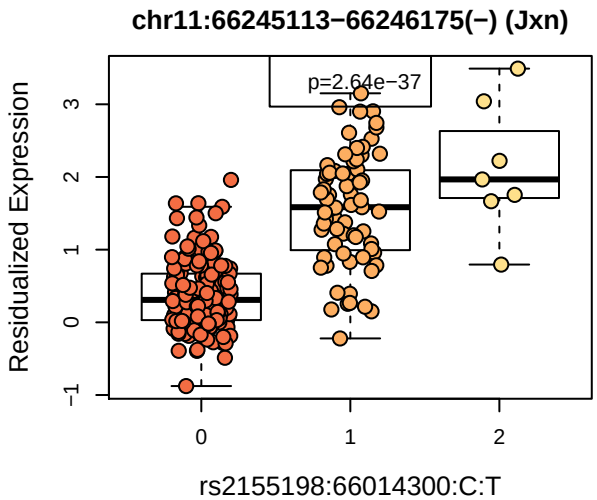
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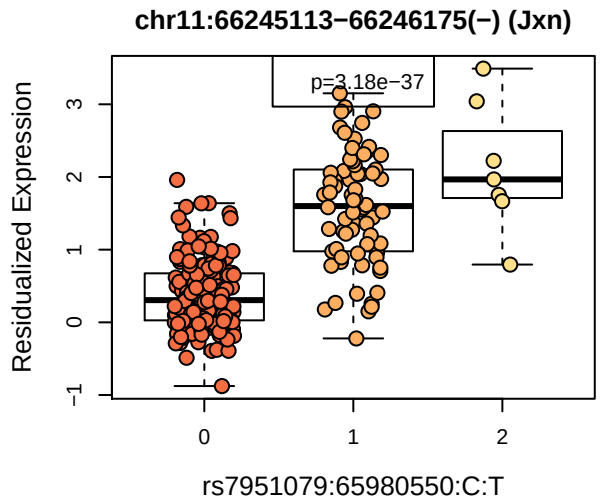
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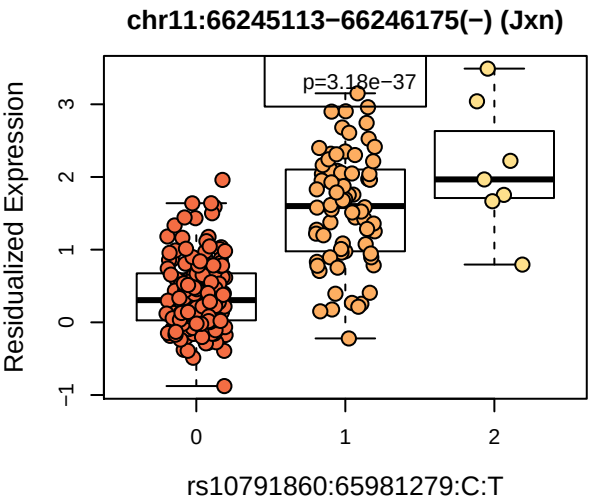
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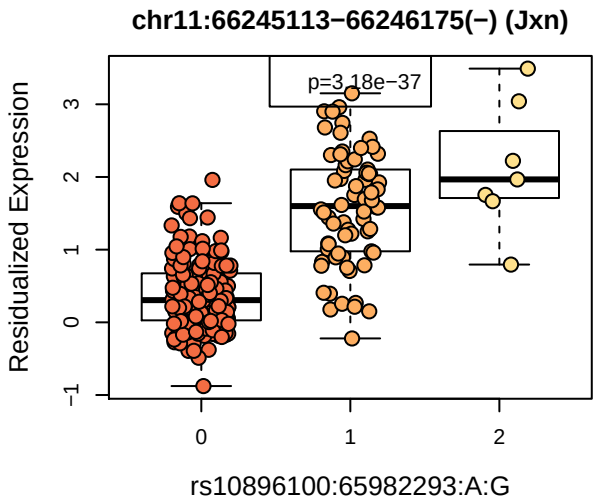
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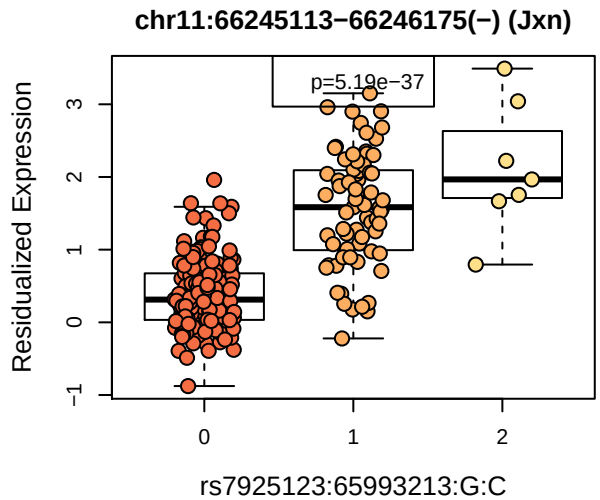
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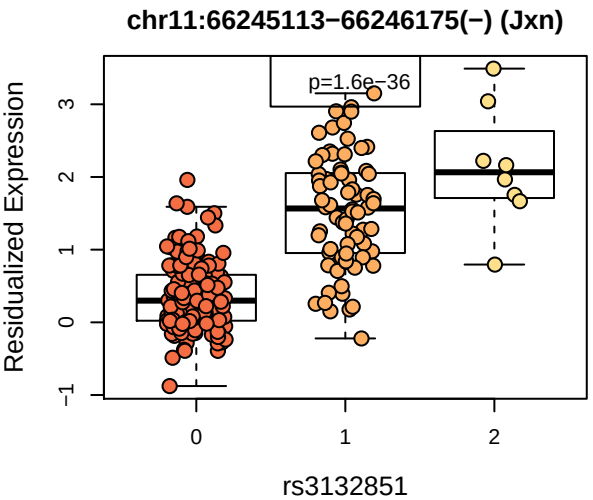
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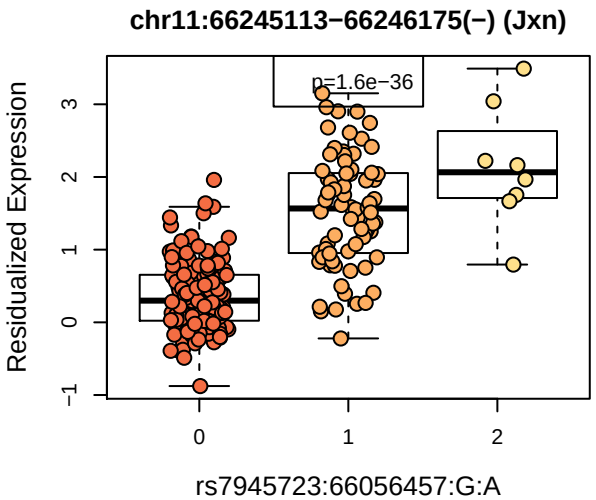
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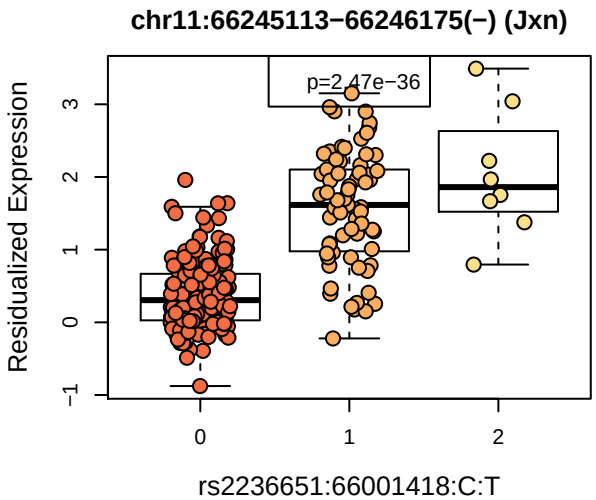
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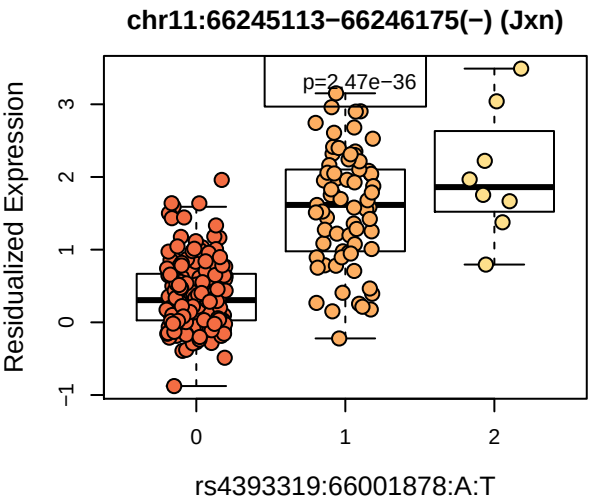
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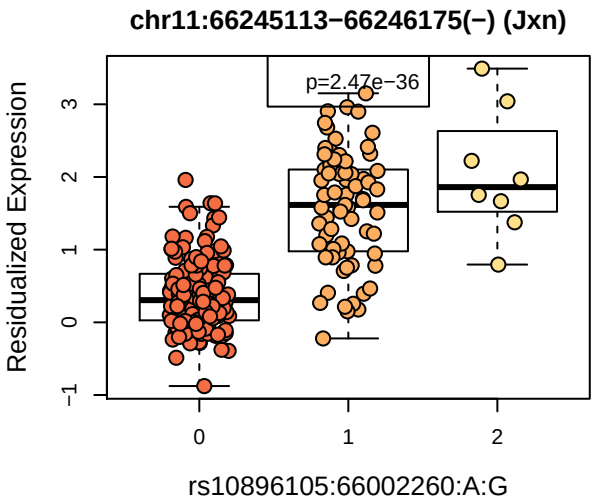
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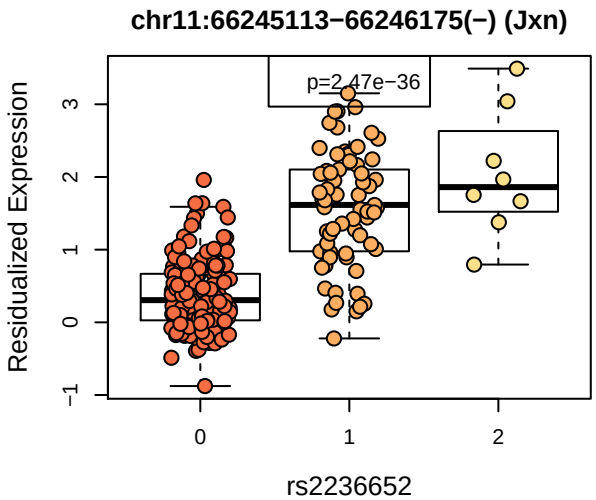
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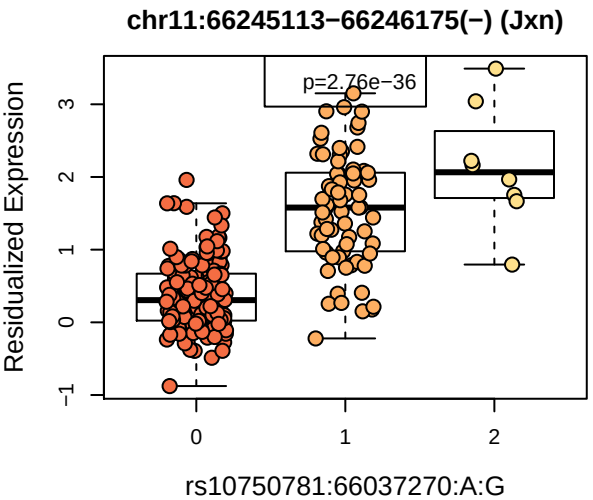
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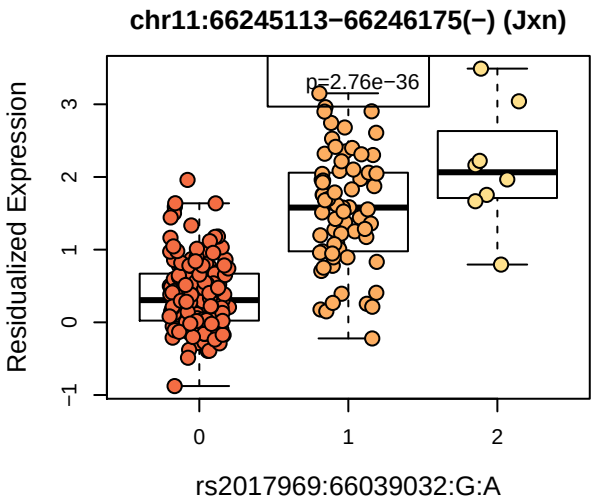
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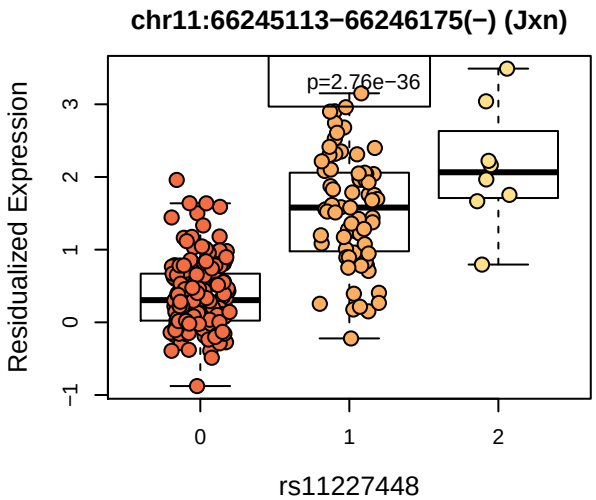
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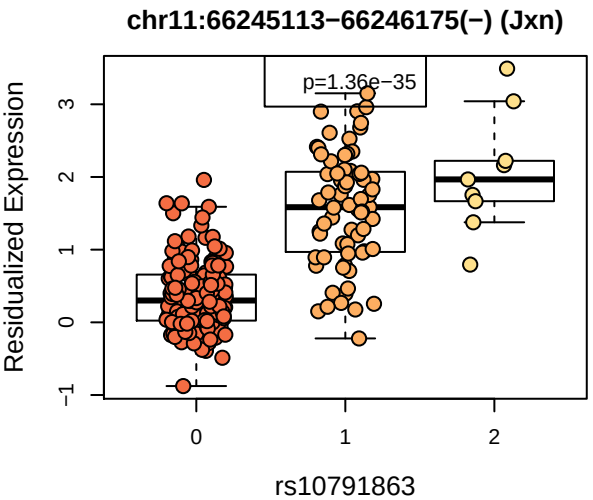
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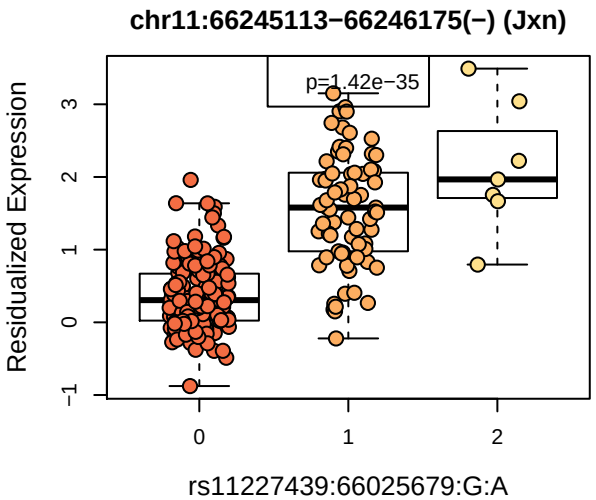
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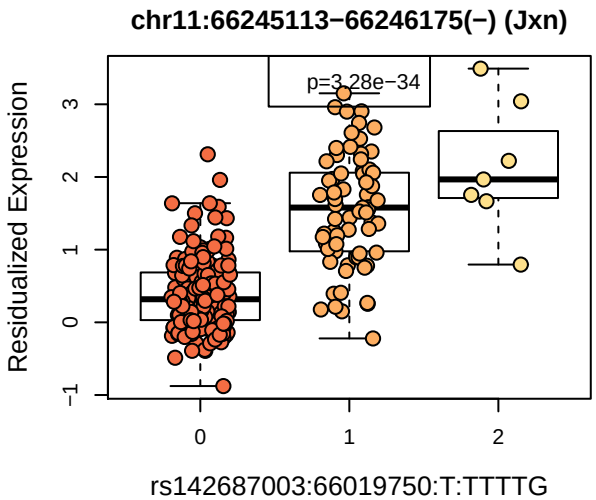
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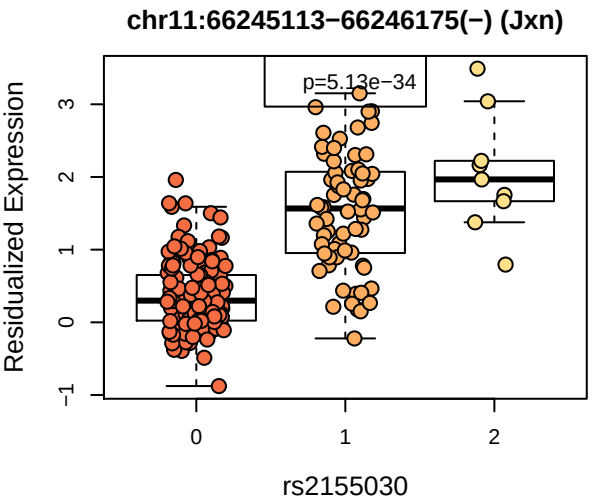
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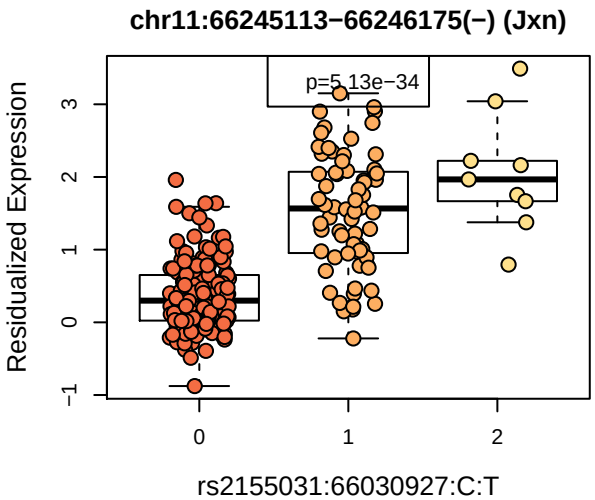
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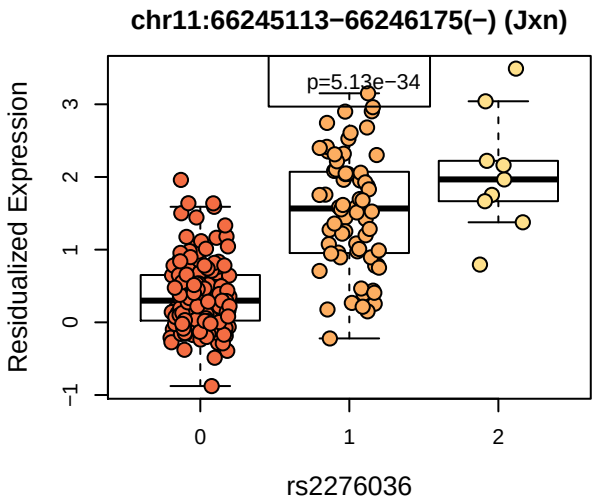
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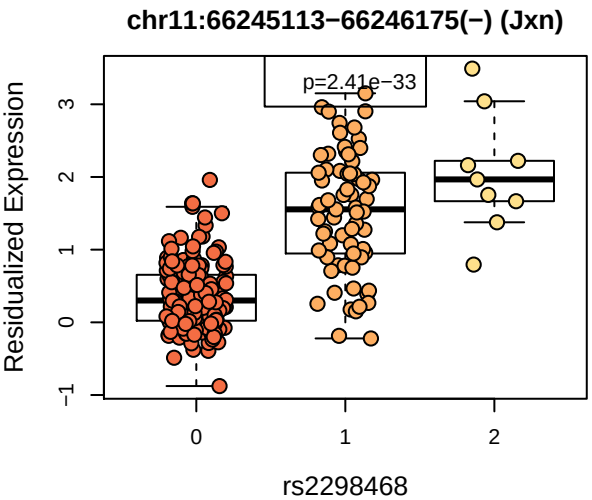
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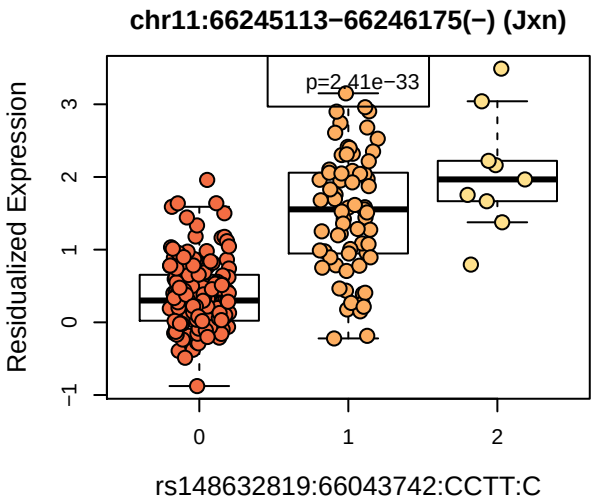
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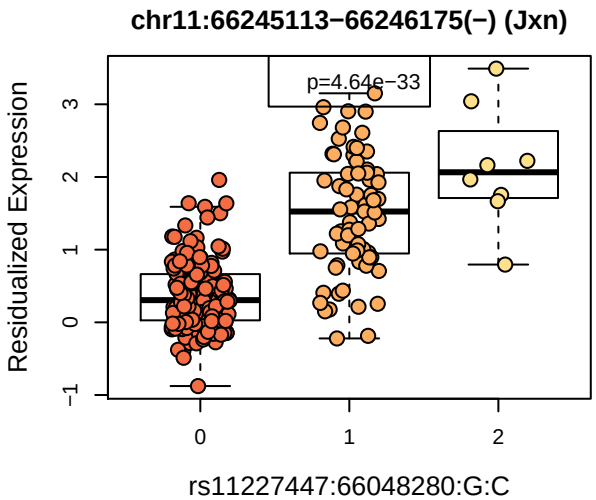
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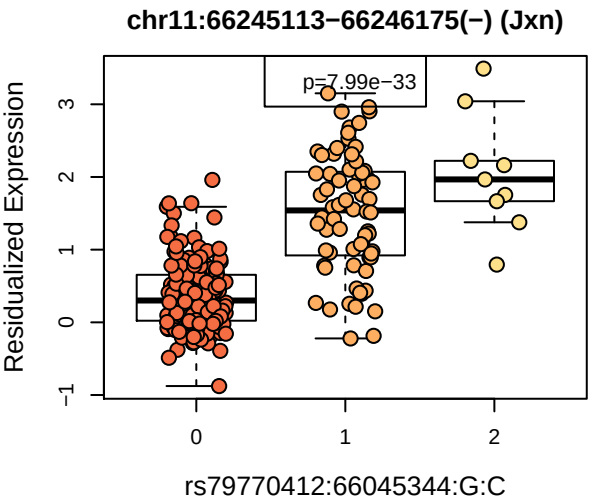
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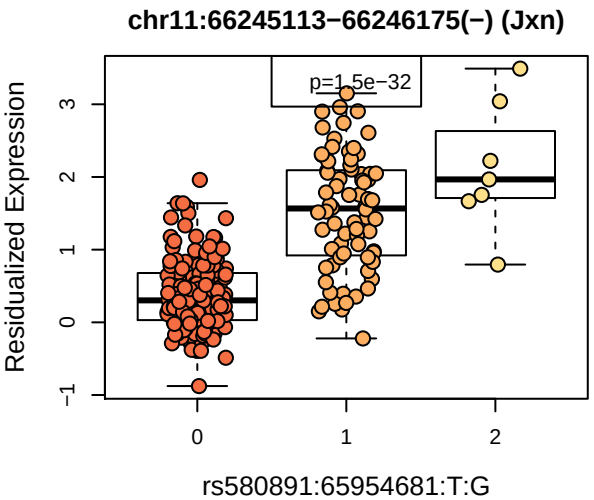
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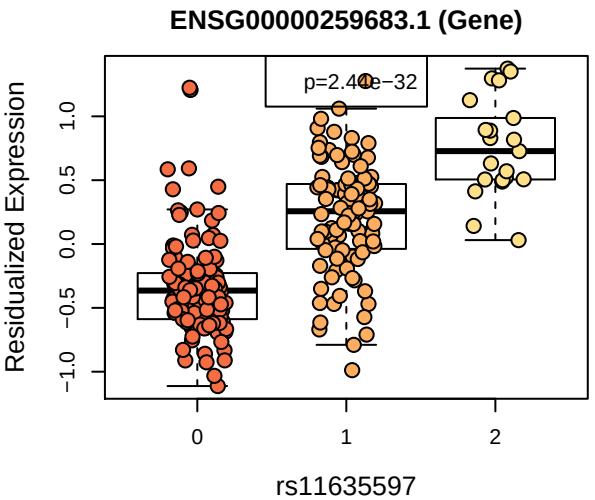
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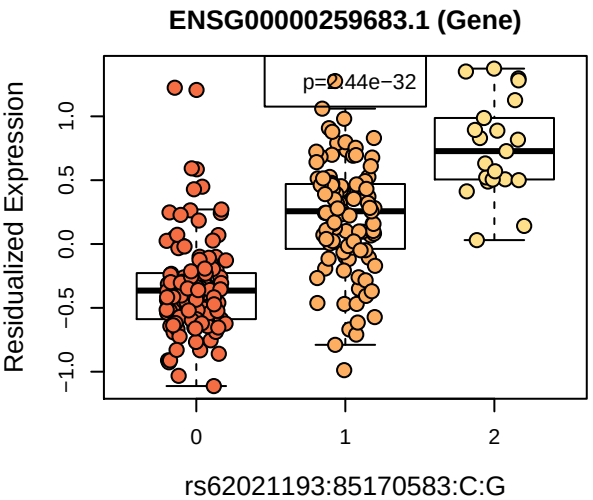
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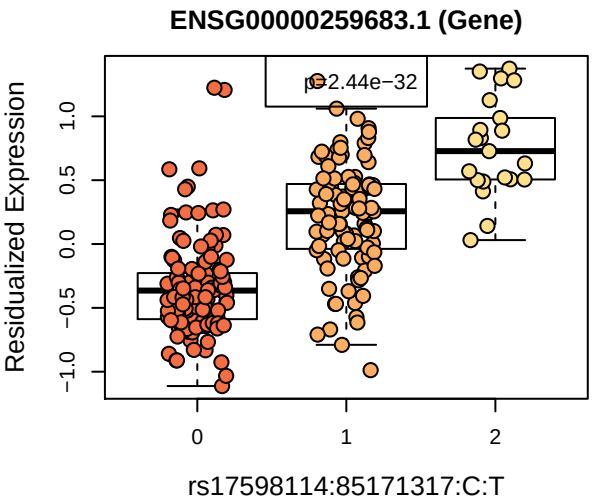
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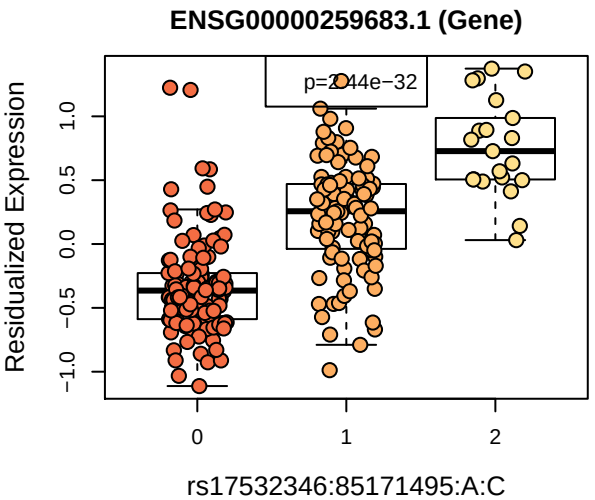
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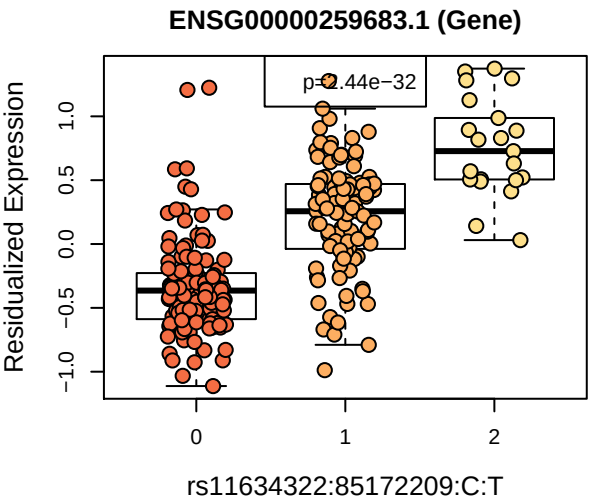
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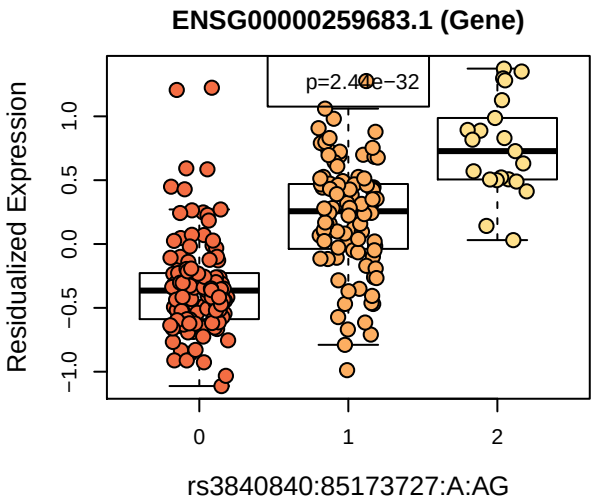
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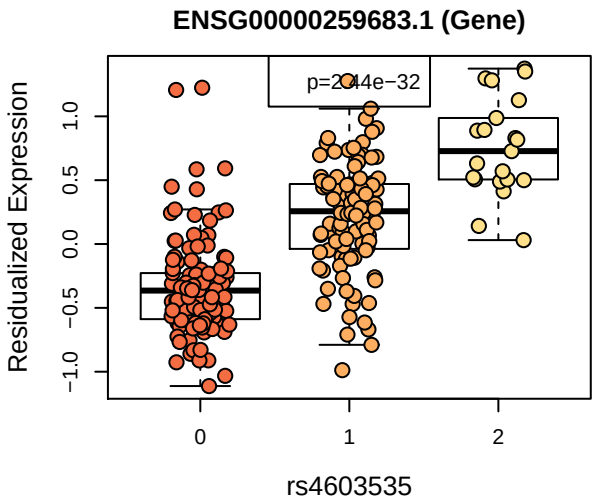
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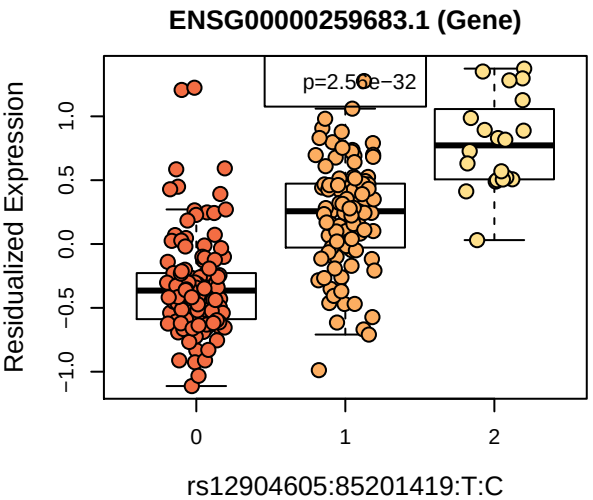
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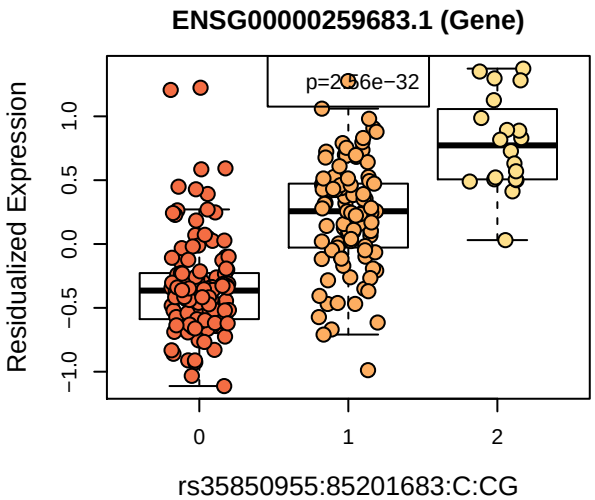
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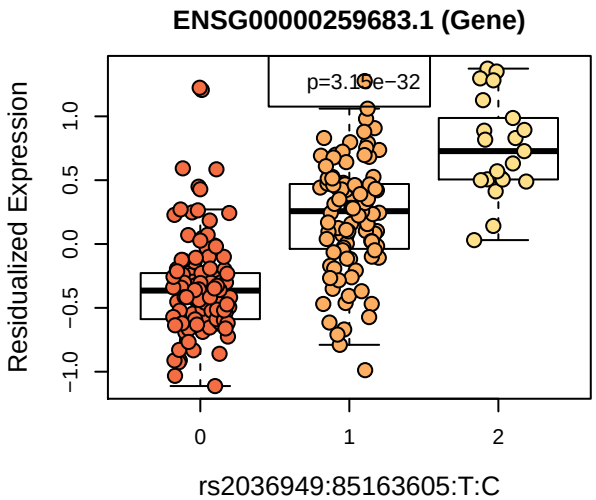
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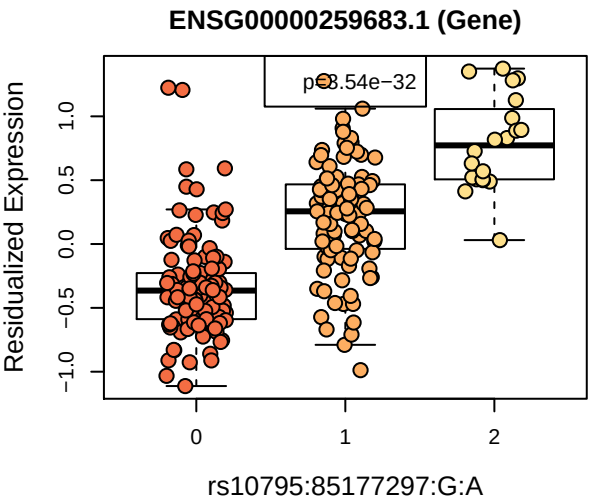
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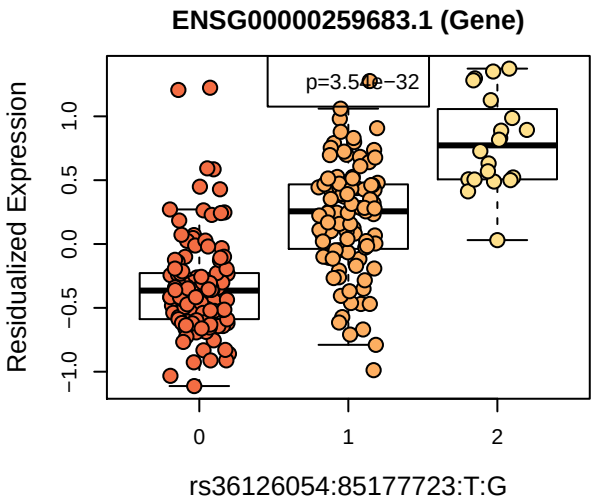
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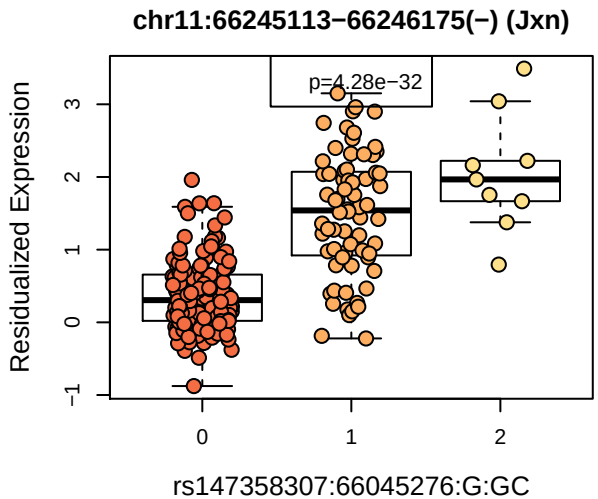
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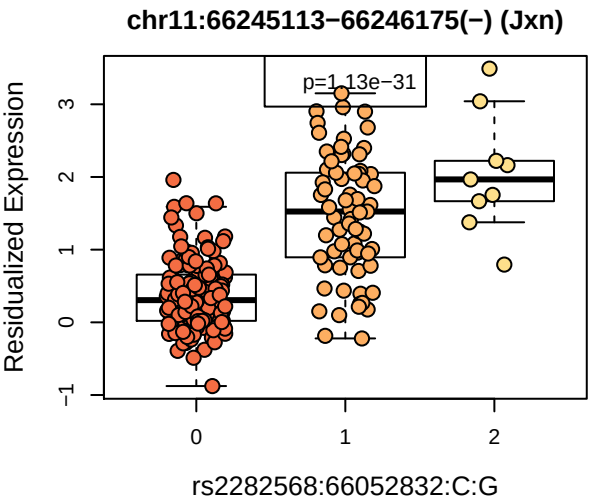
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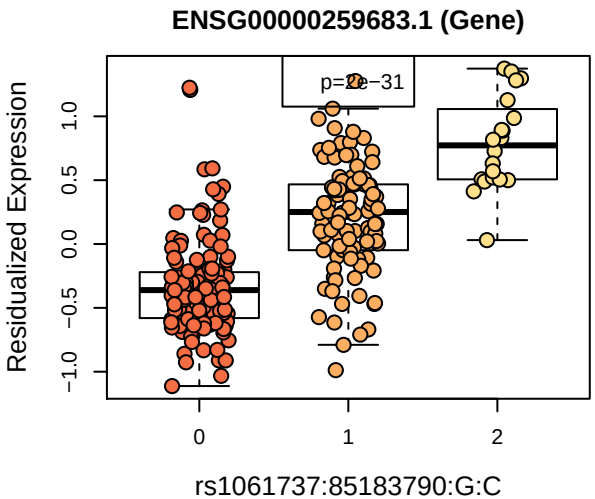
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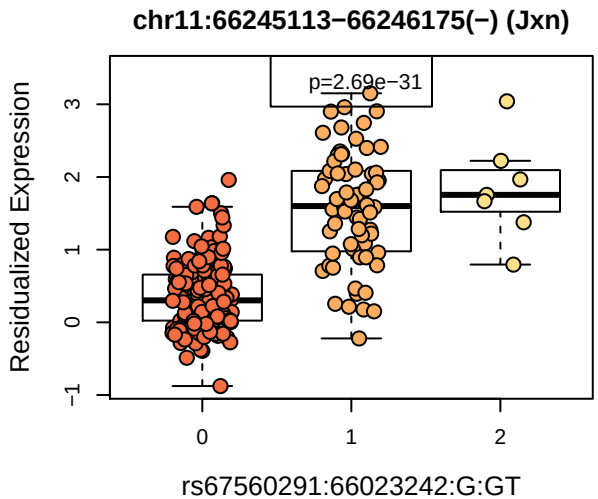
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Residualized Expression
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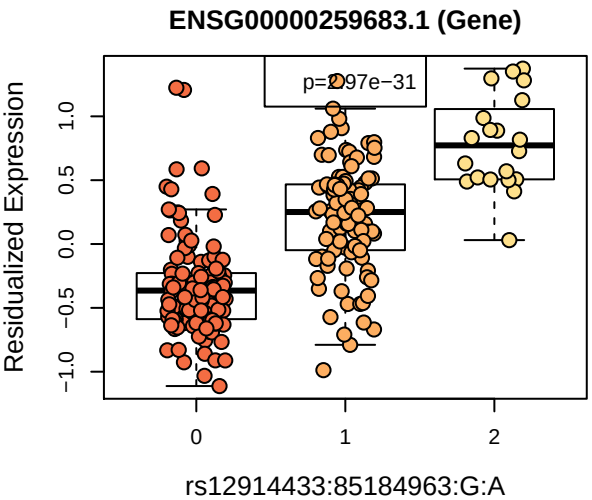
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0.5
1.0
0
1
2
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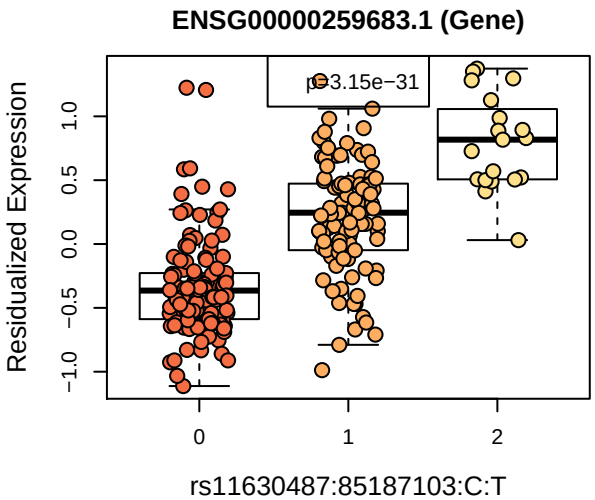
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−0.5
0.0
0.5
1.0
0
1
2
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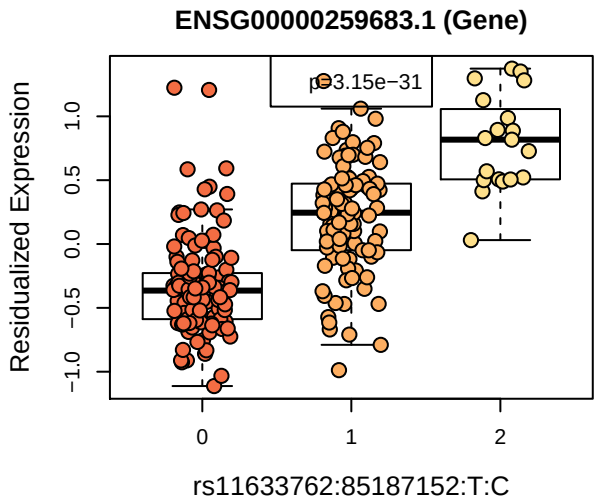
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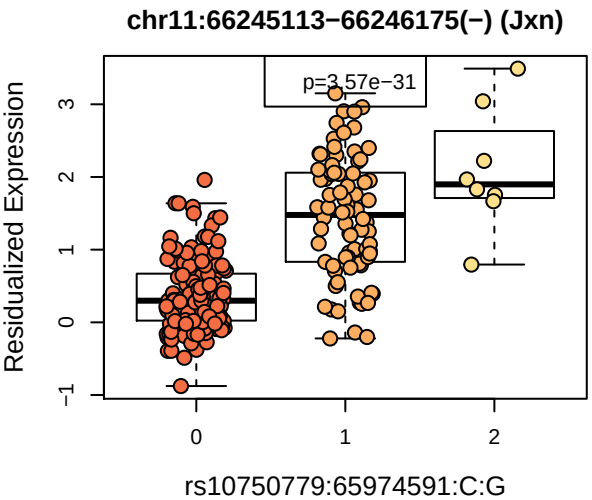
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2
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0
1
2
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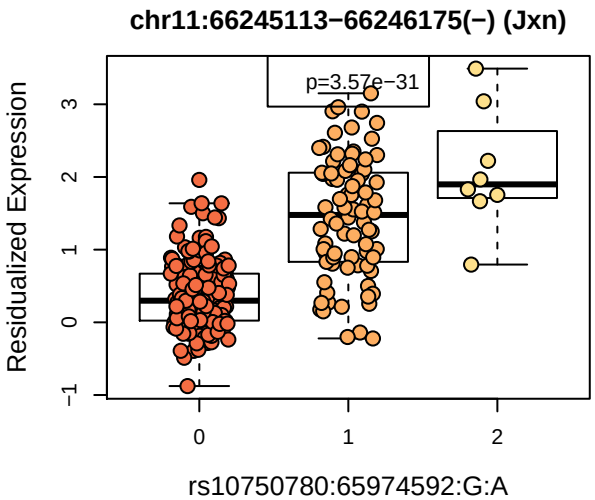
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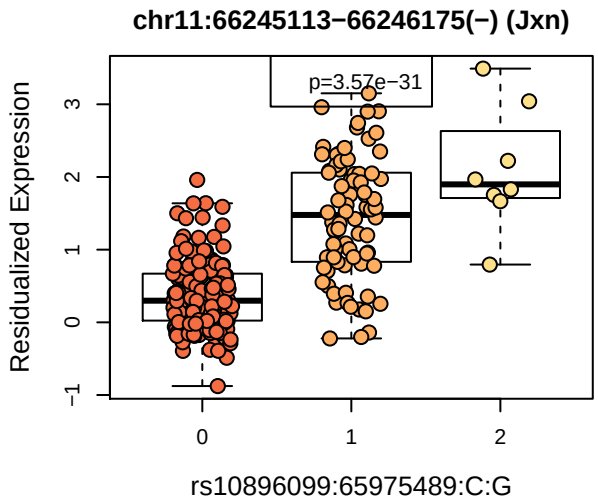
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Residualized Expression
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0
1
2
3
0
1
2
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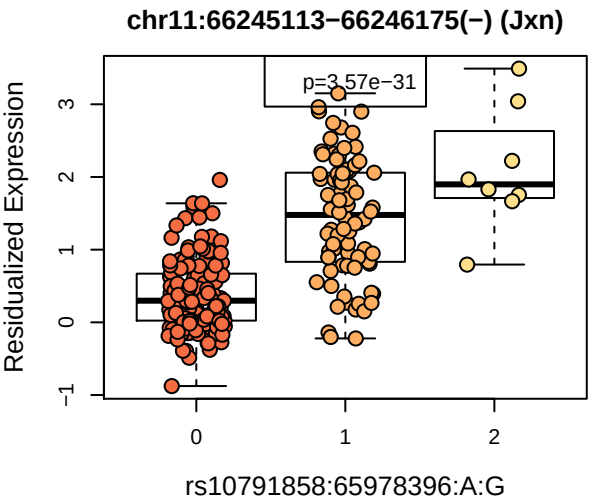
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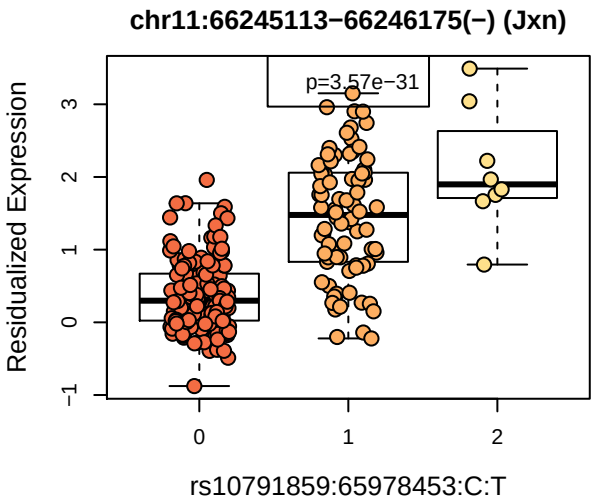
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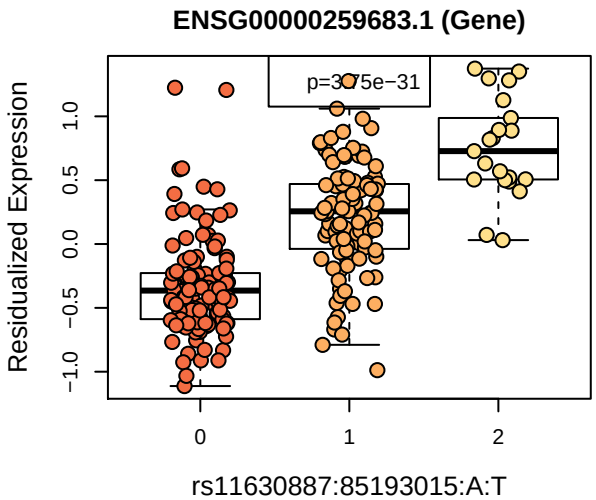
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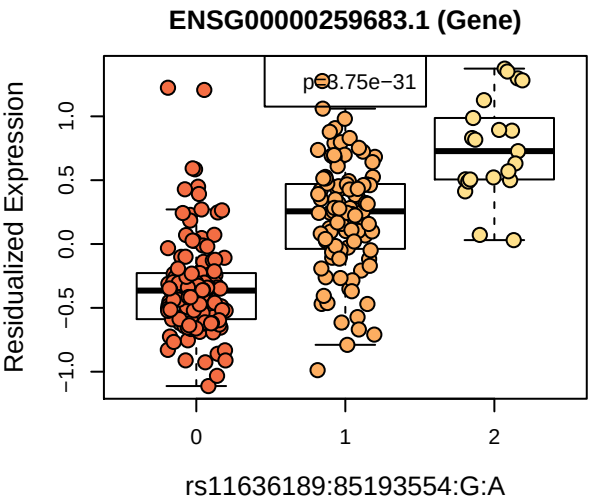
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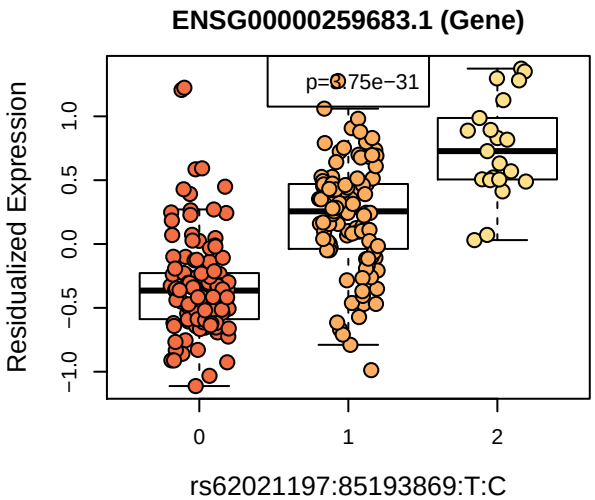
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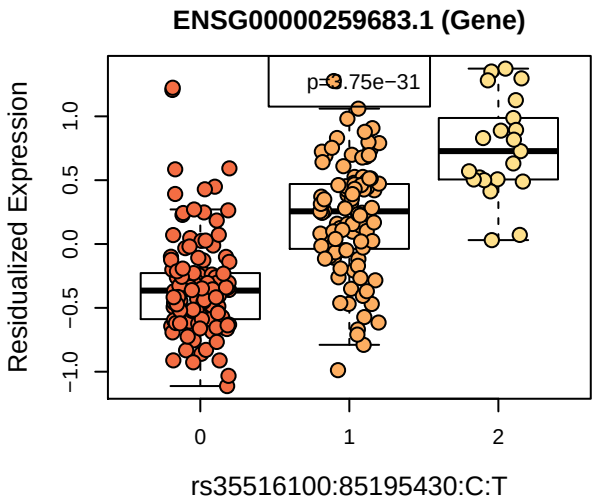
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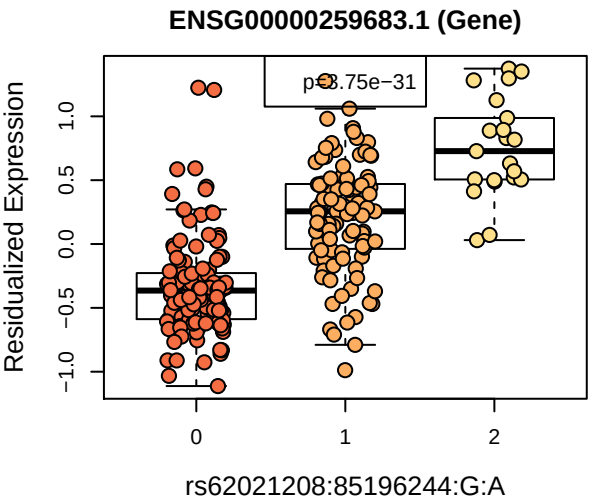
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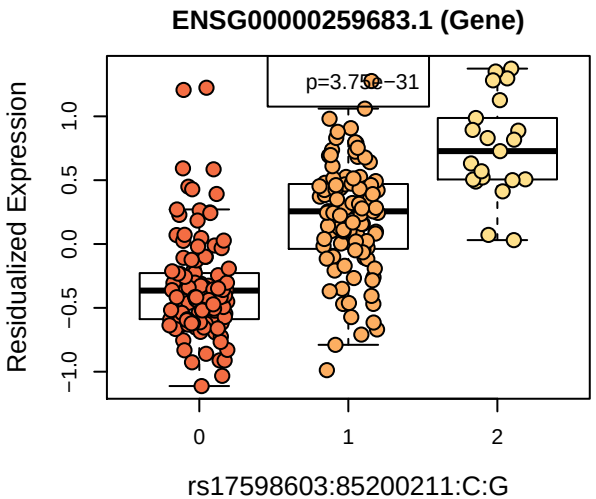
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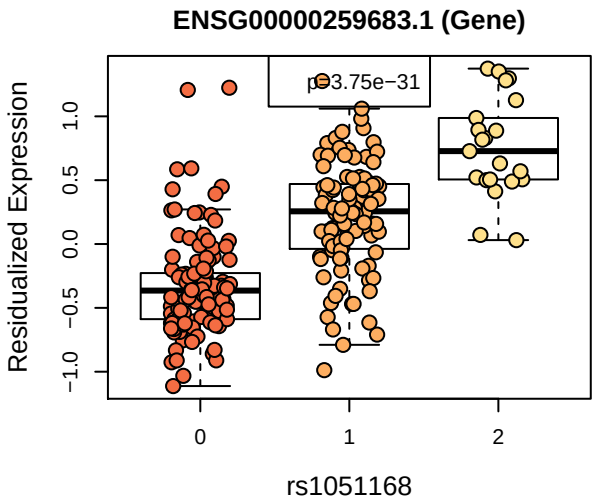
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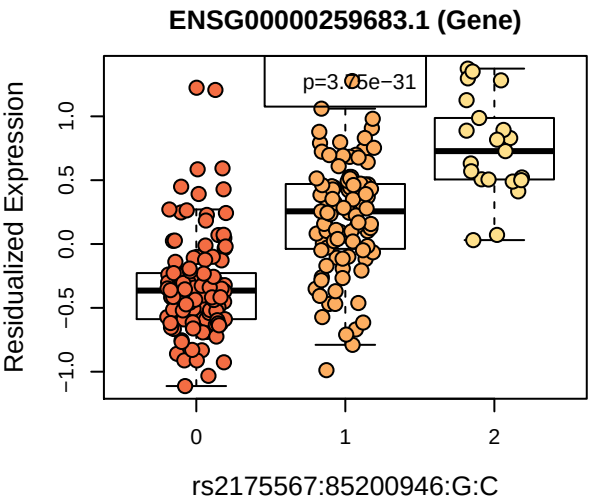
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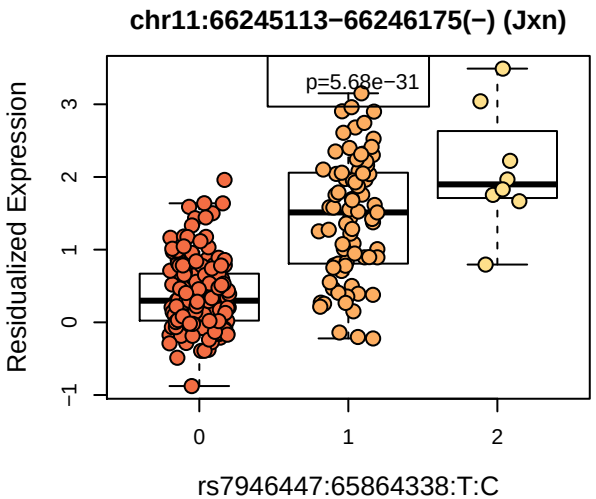
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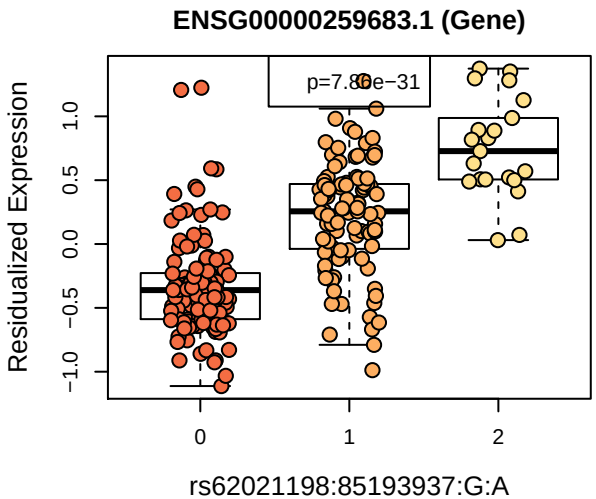
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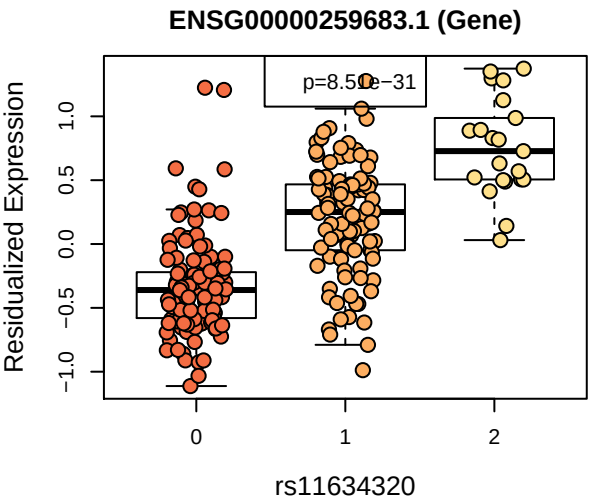
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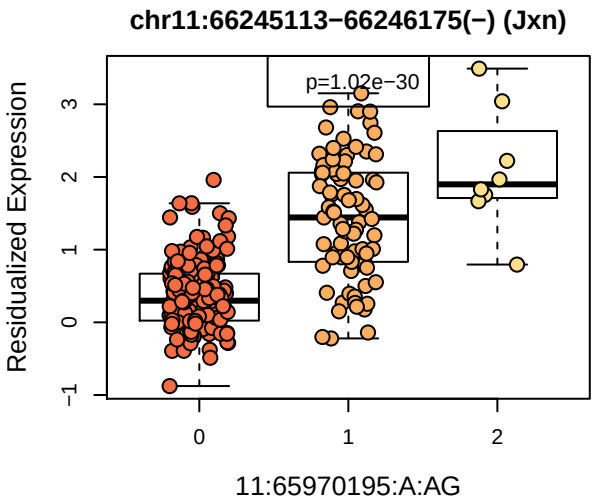
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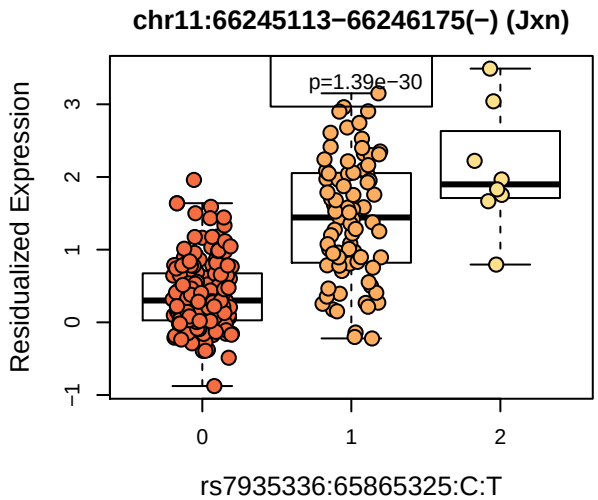
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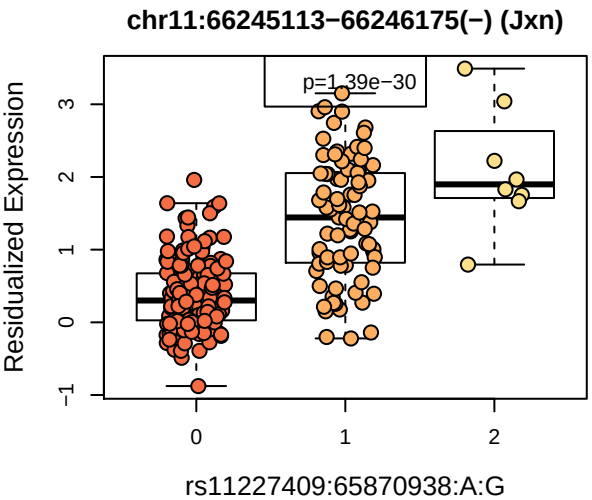
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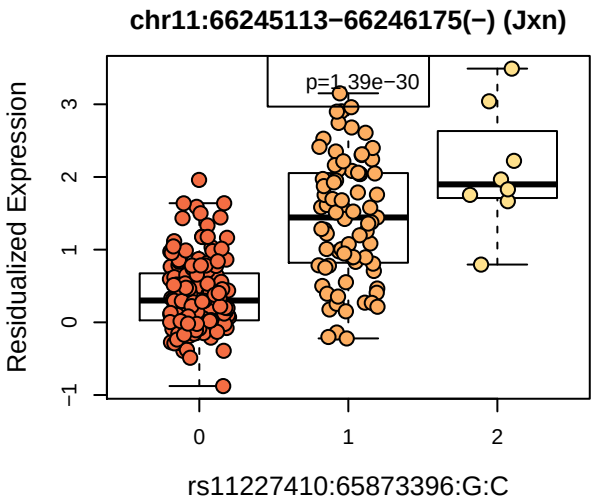
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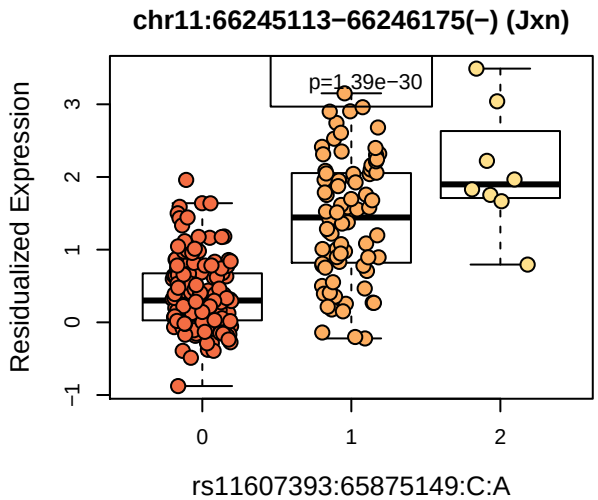
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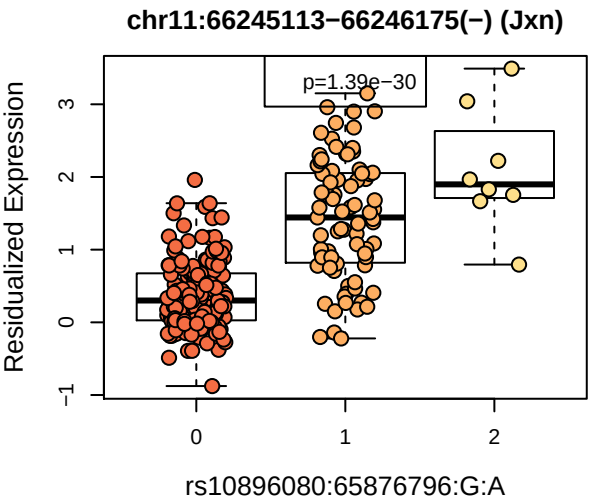
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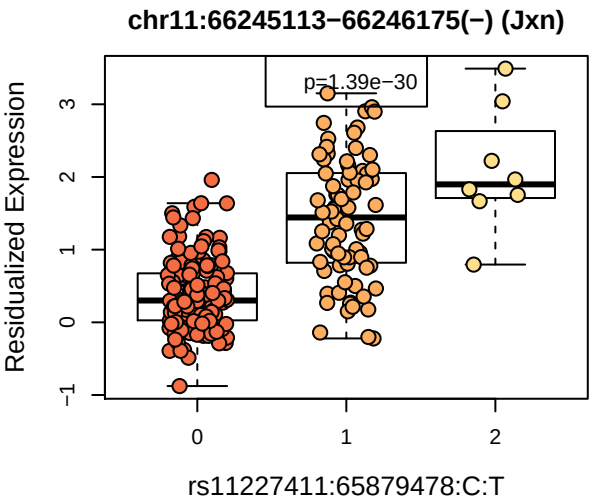
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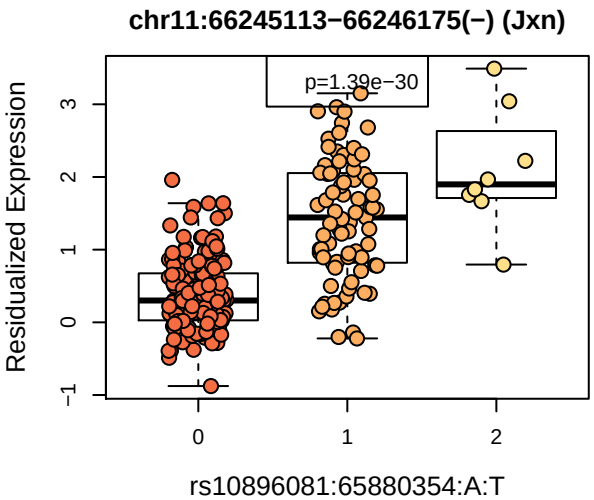
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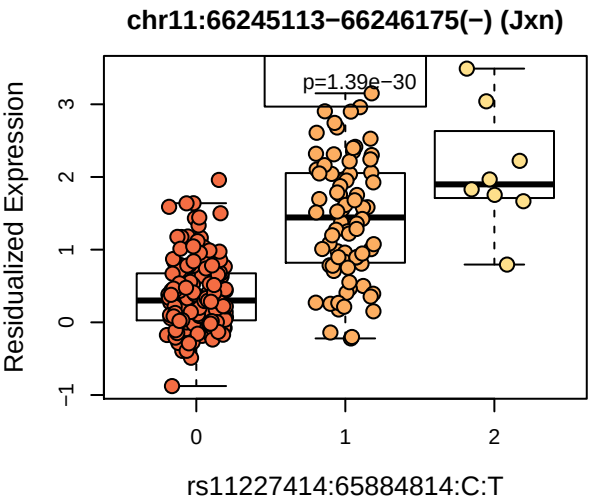
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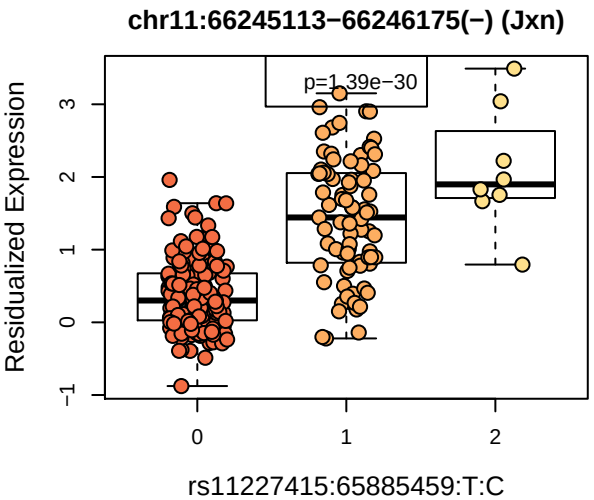
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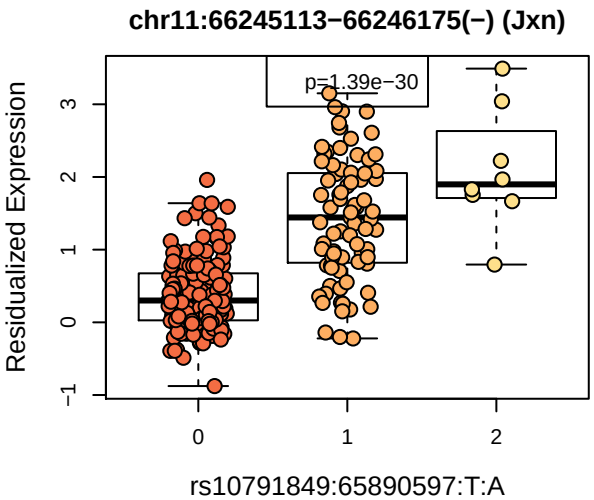
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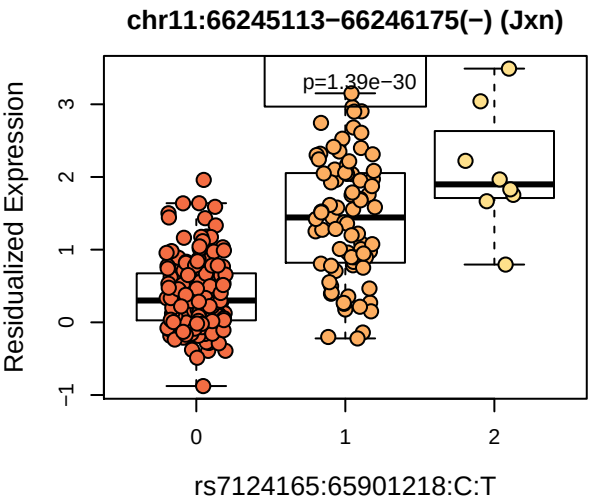
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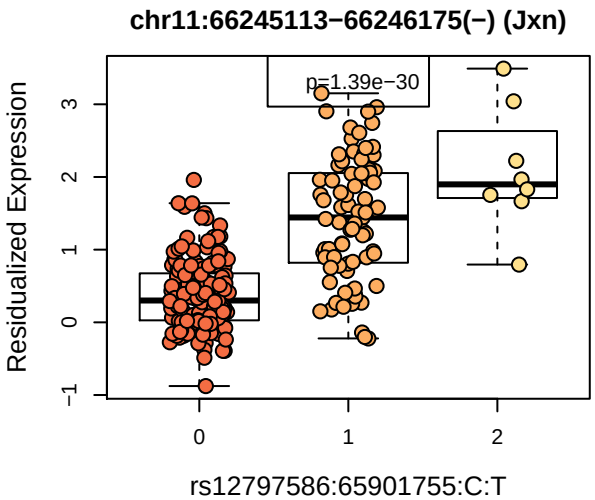
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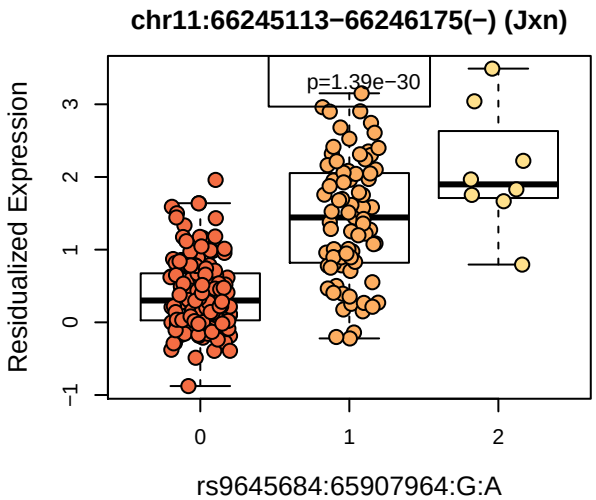
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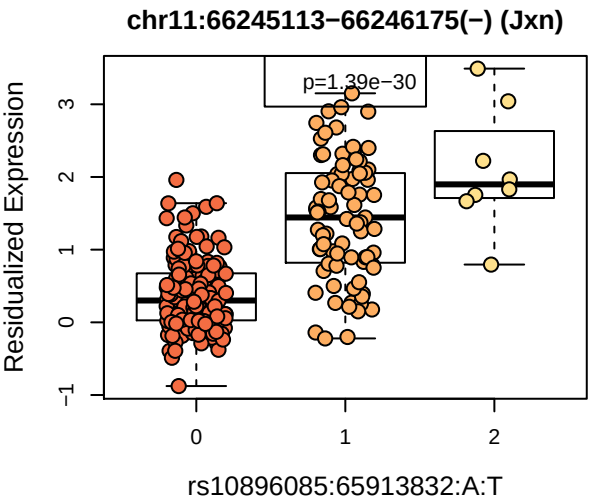
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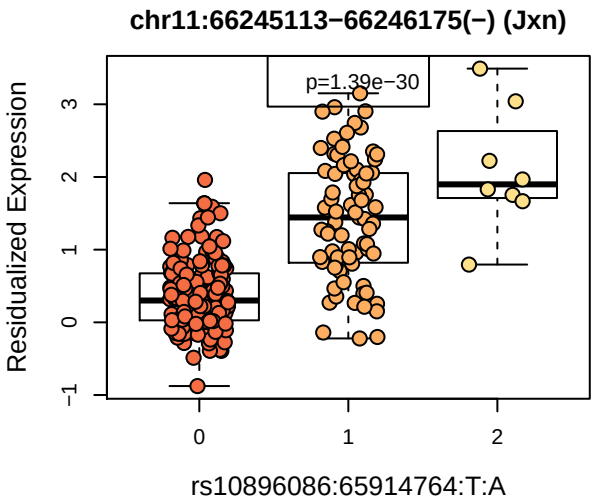
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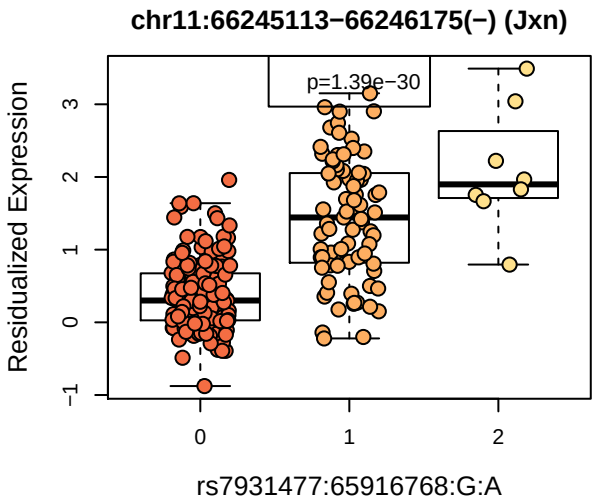
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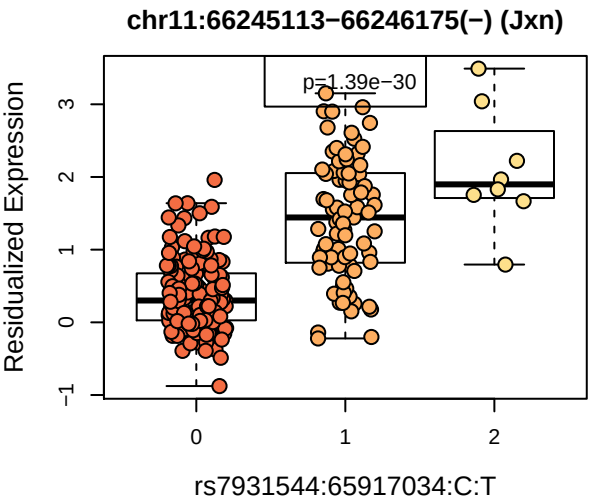
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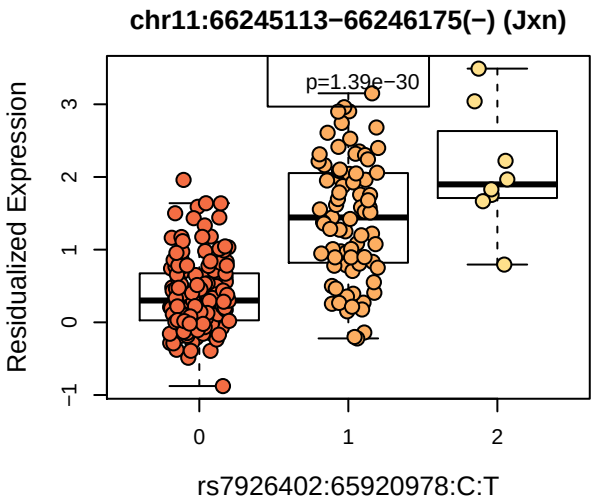
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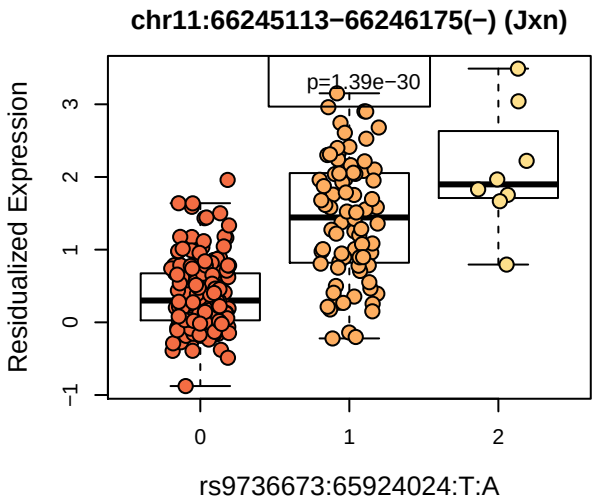
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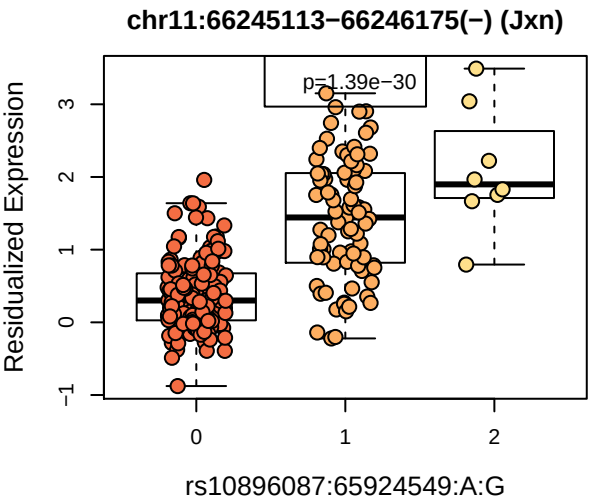
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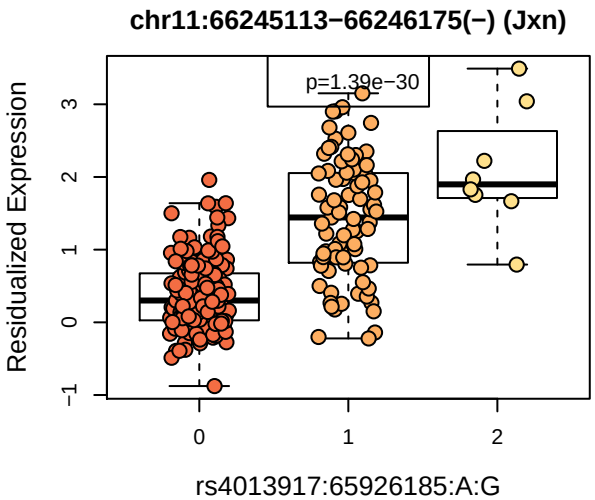
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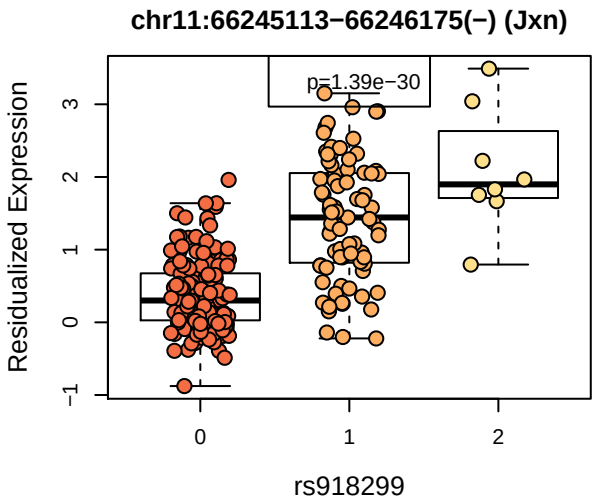
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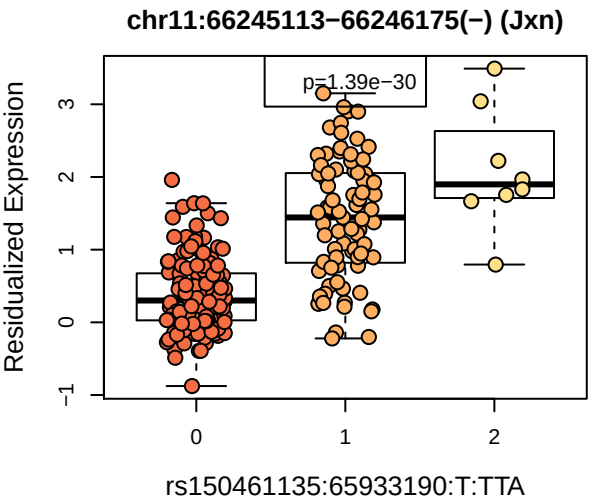
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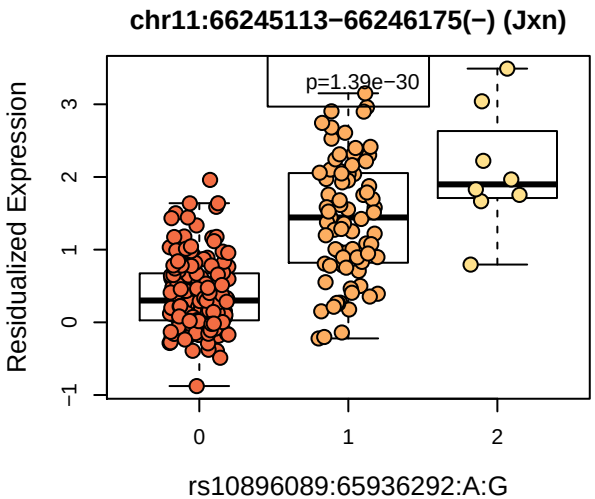
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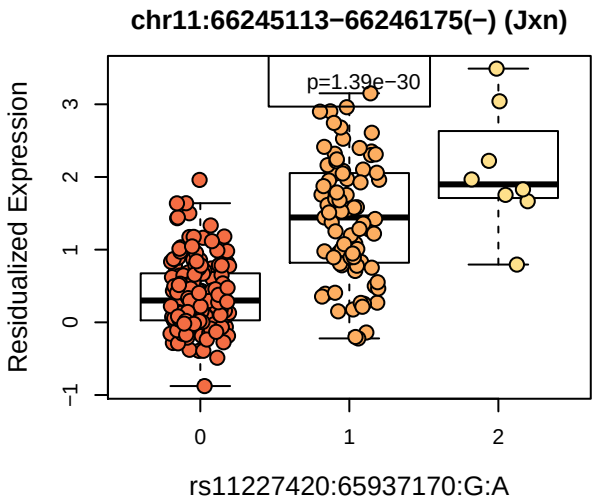
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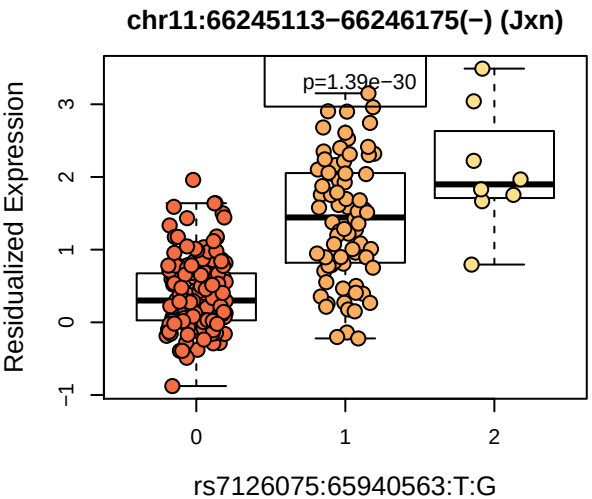
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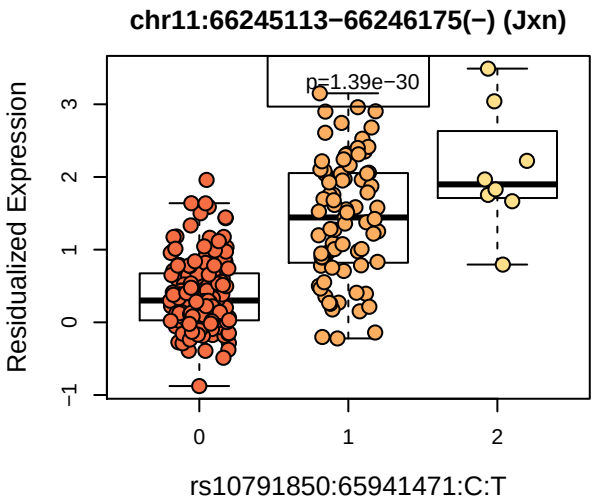
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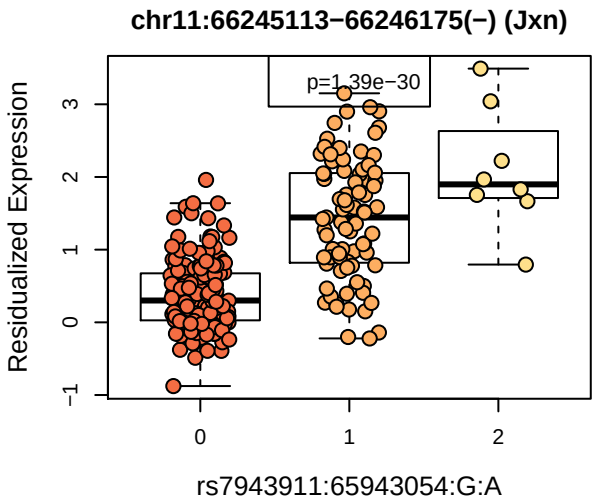
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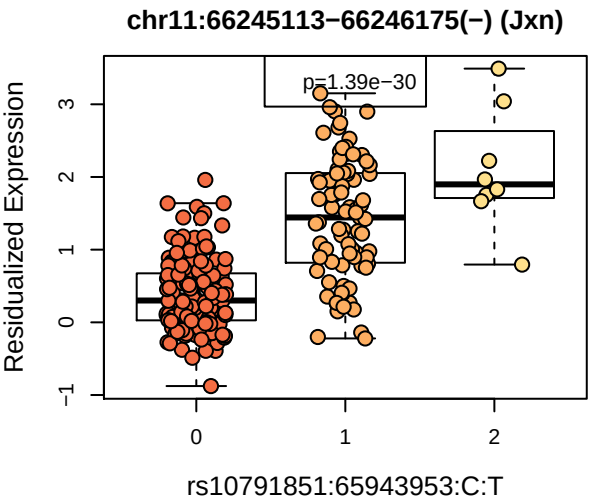
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2
3
0
1
2
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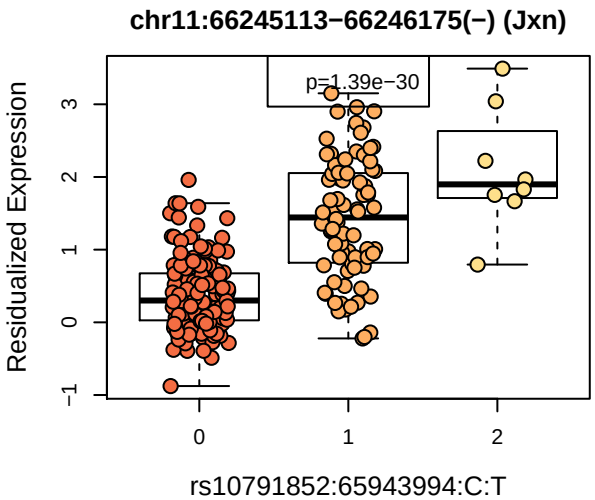
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1
2
3
0
1
2
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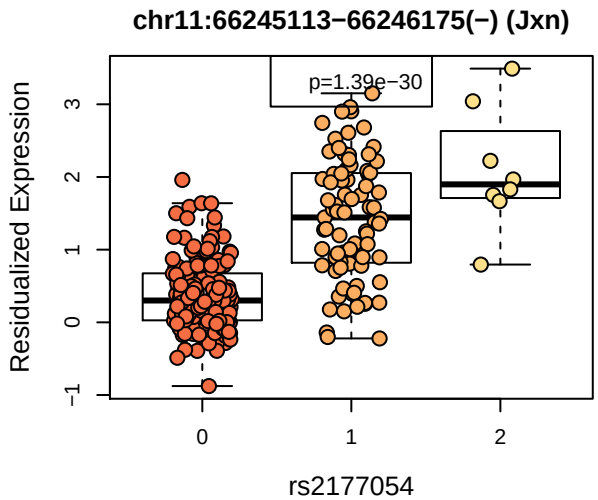
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2
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1
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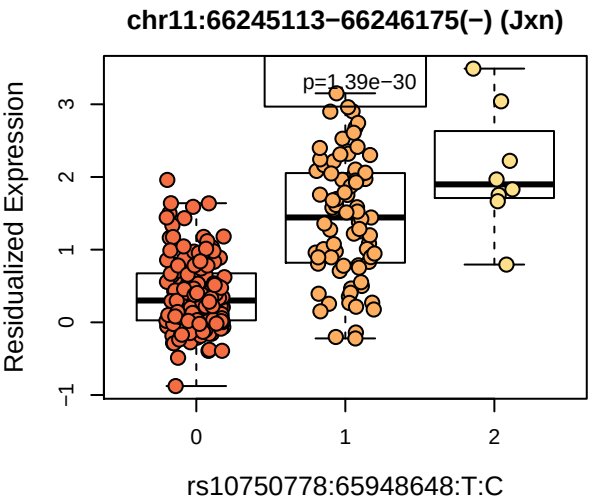
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Residualized Expression
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2
3
0
1
2
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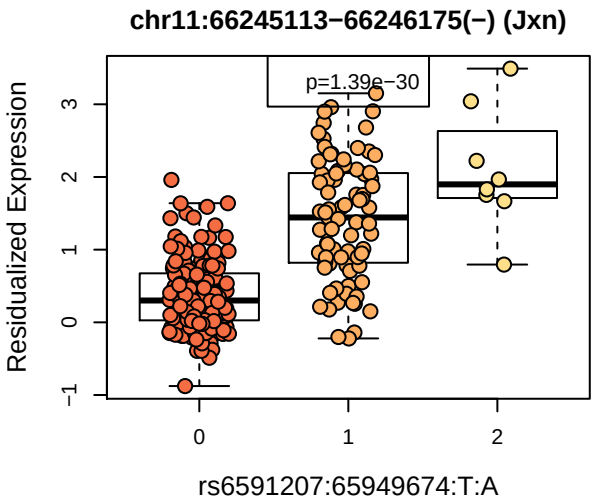
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2
3
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1
2
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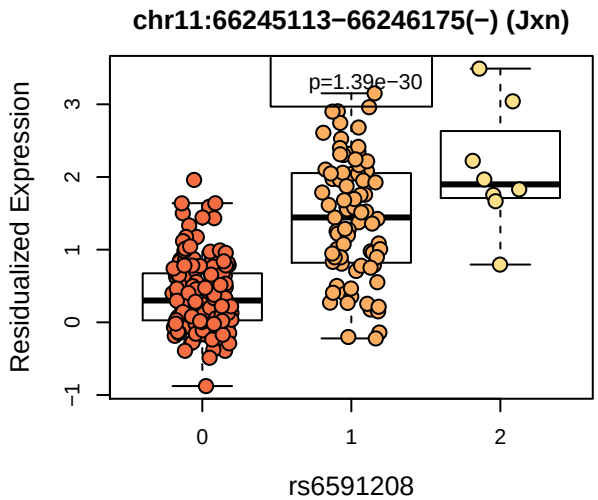
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1
2
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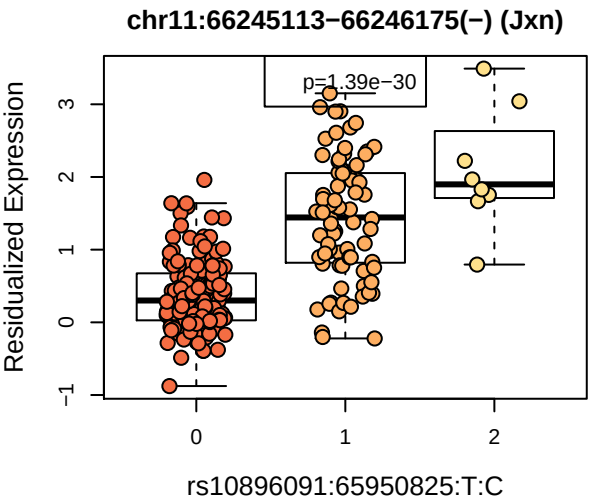
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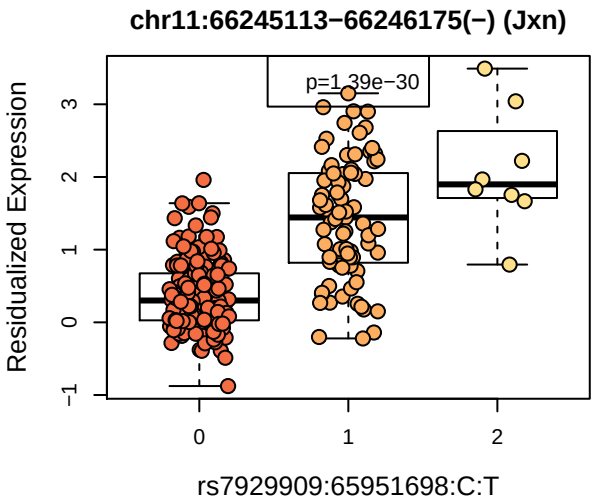
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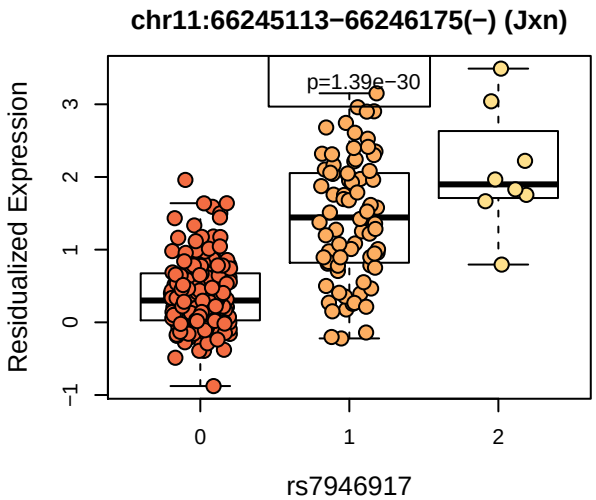
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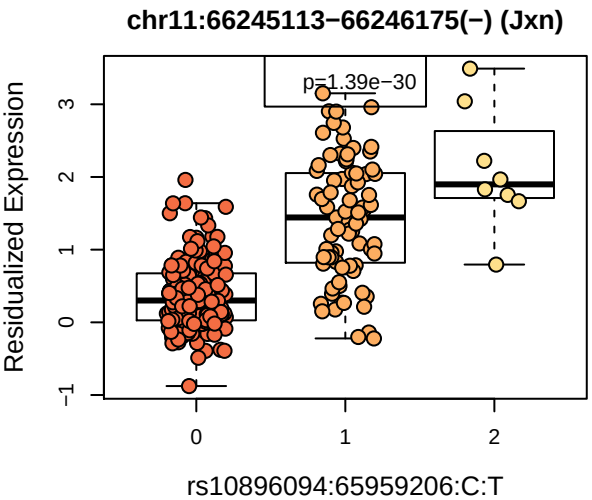
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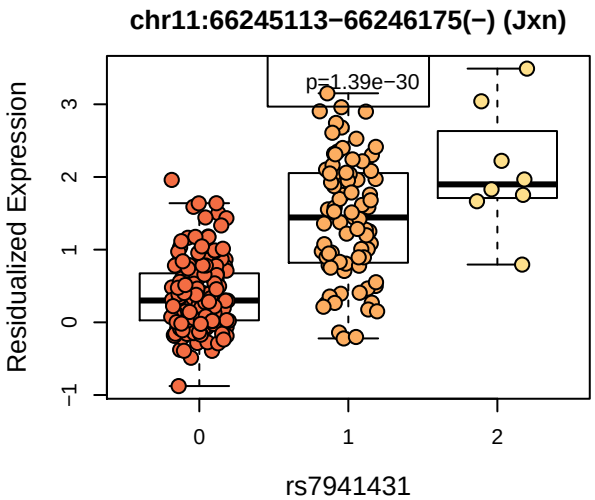
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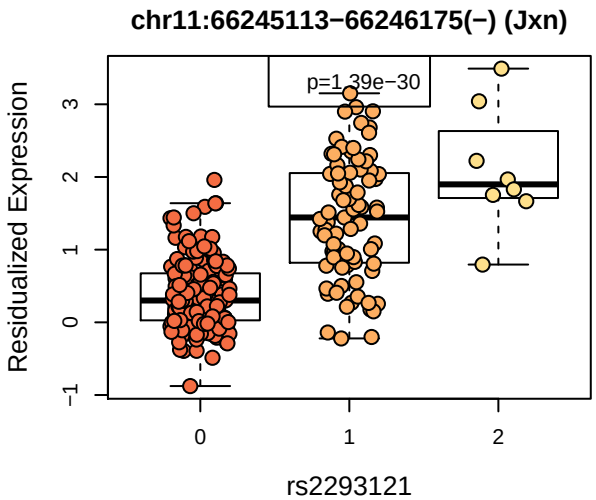
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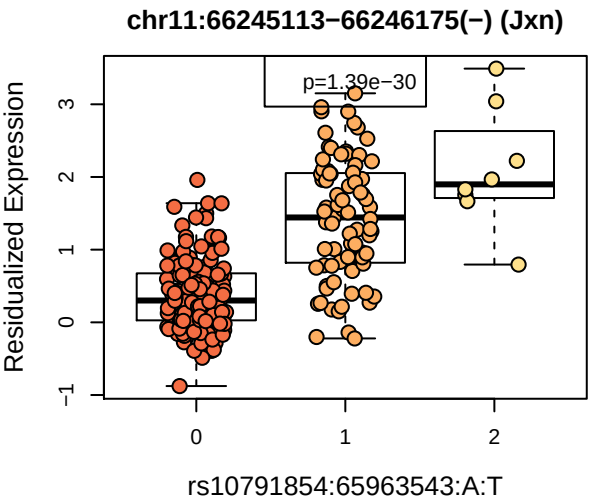
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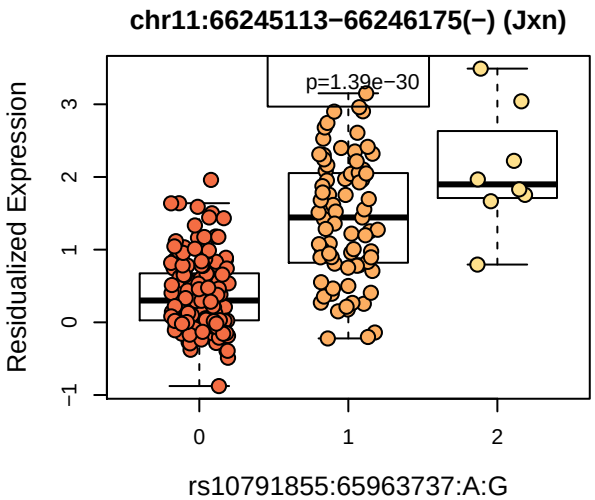
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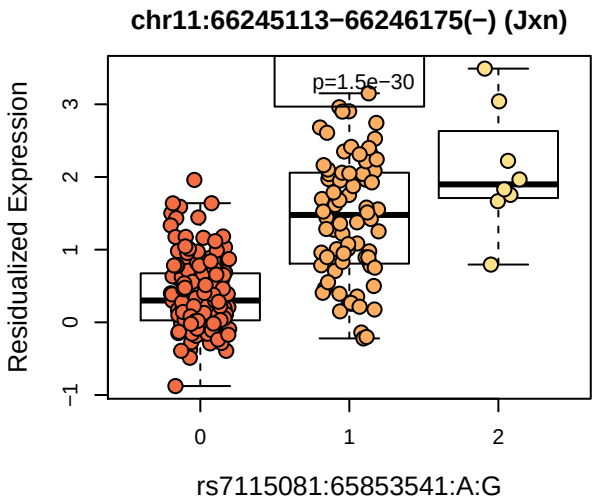
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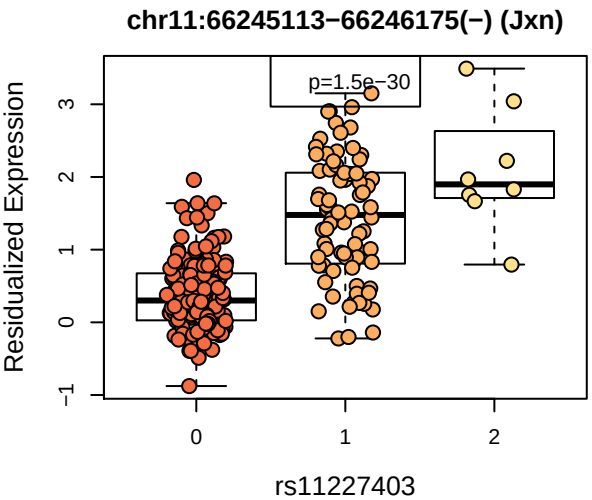
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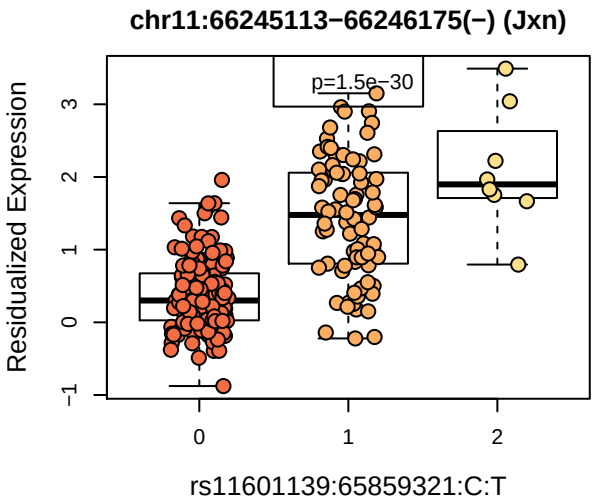
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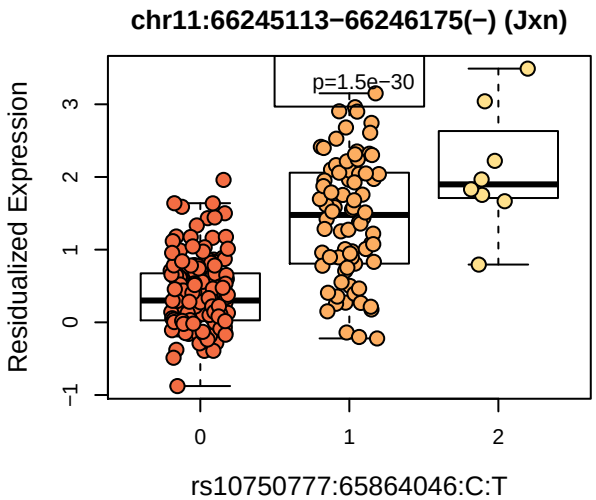
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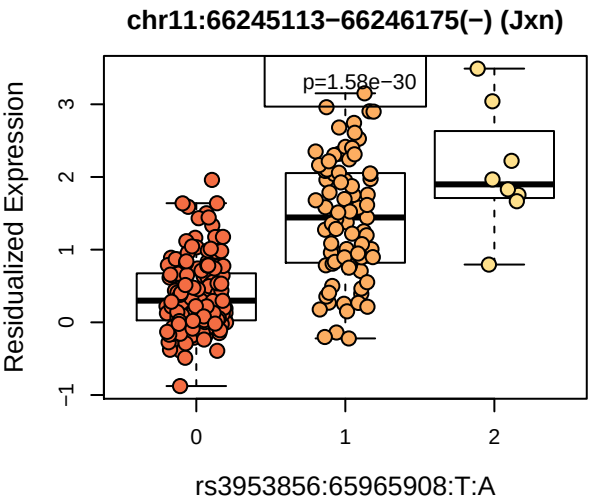
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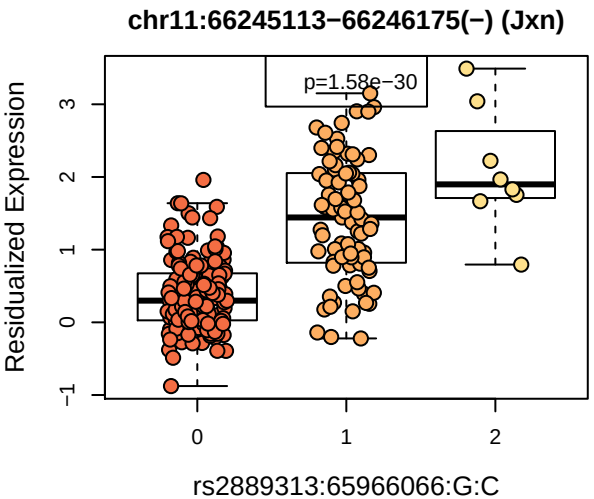
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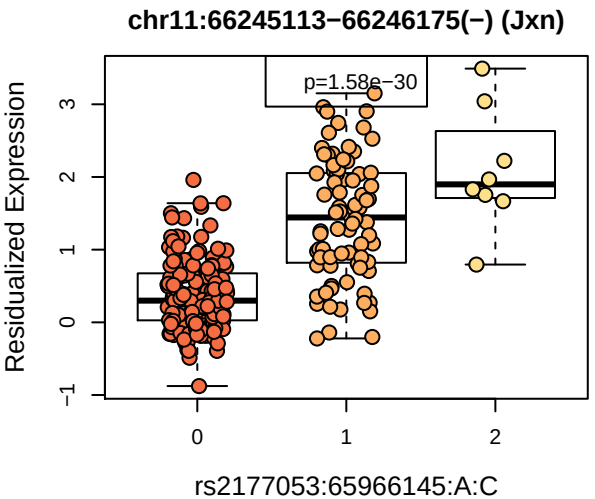
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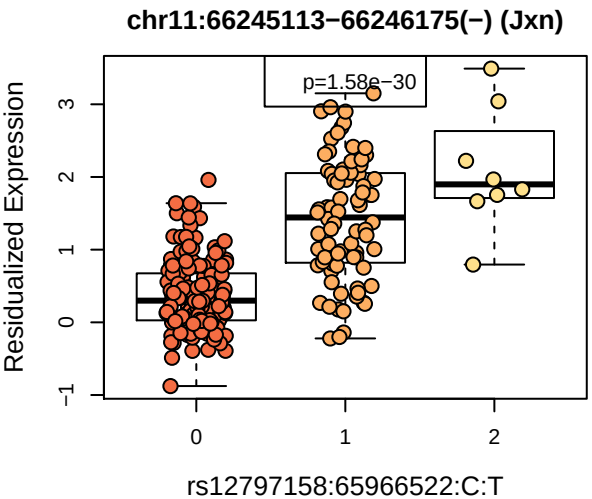
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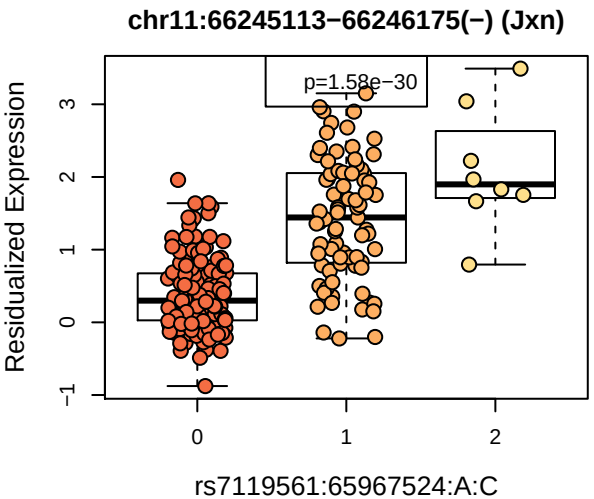
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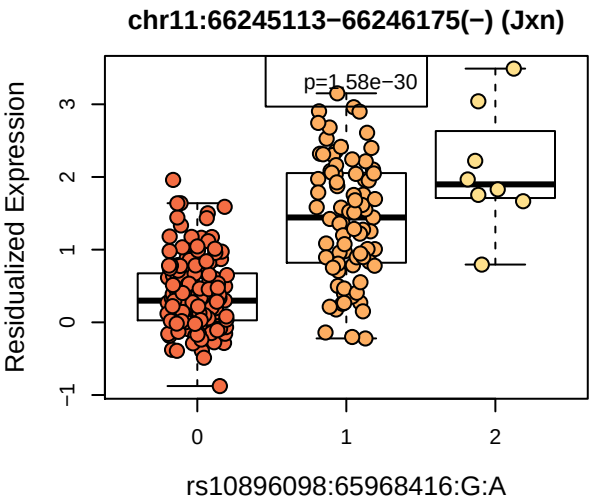
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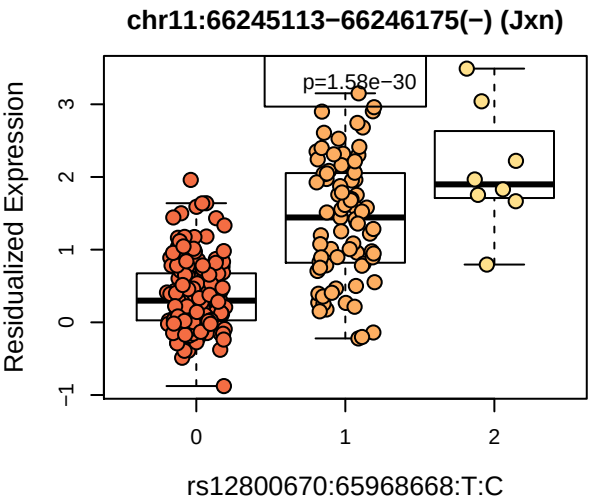
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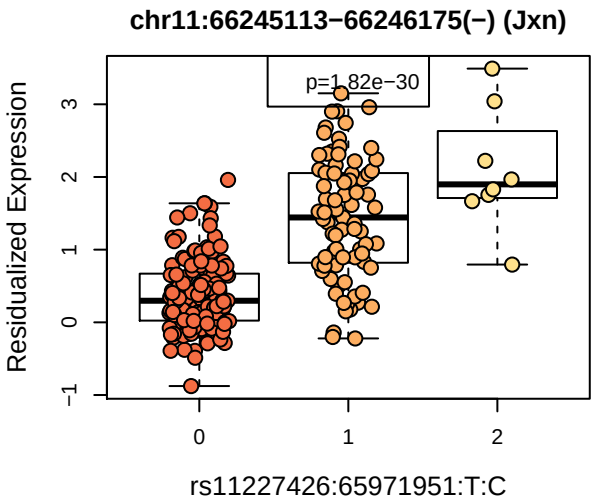
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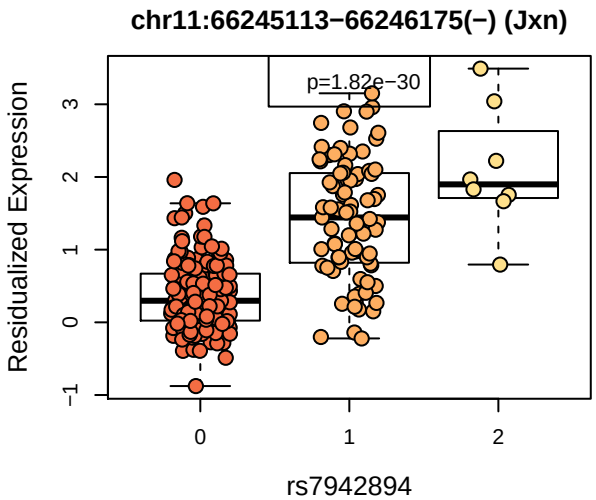
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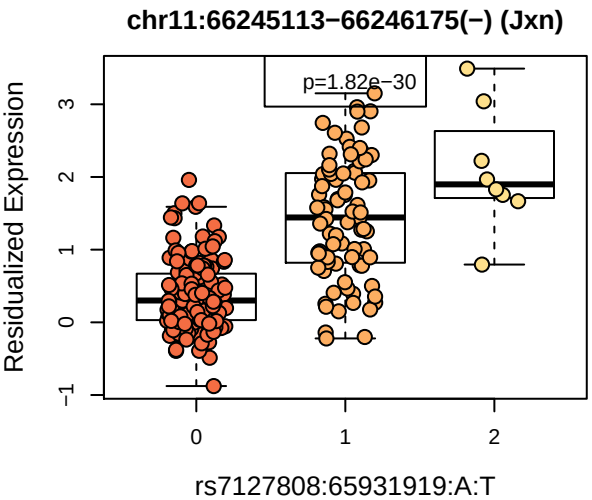
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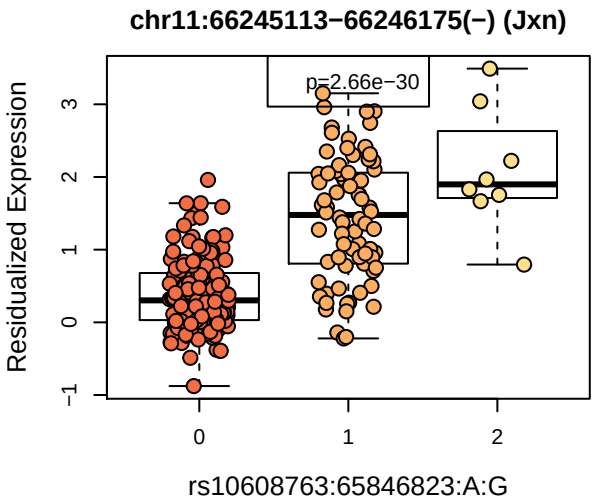
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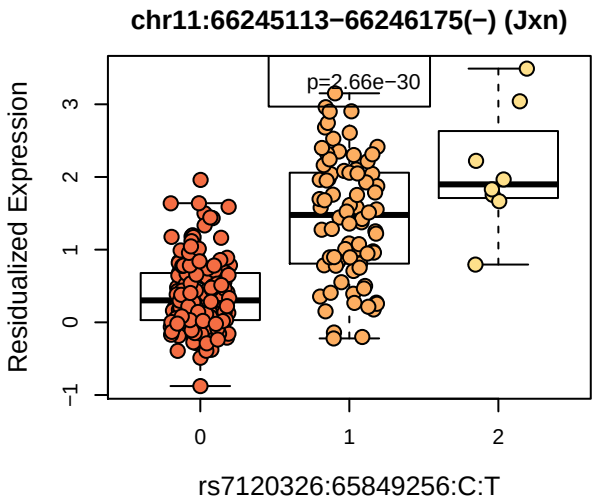
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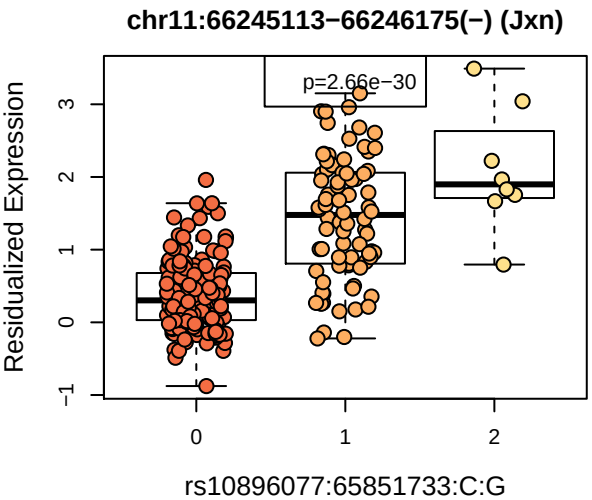
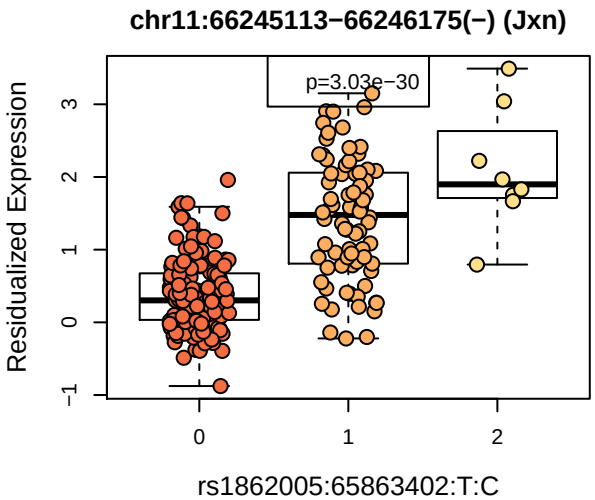
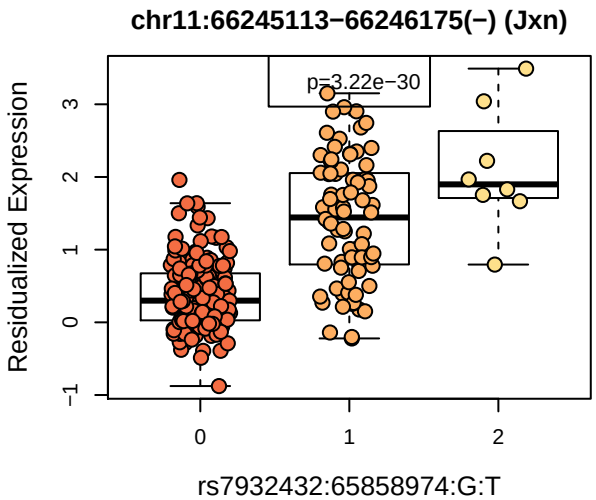
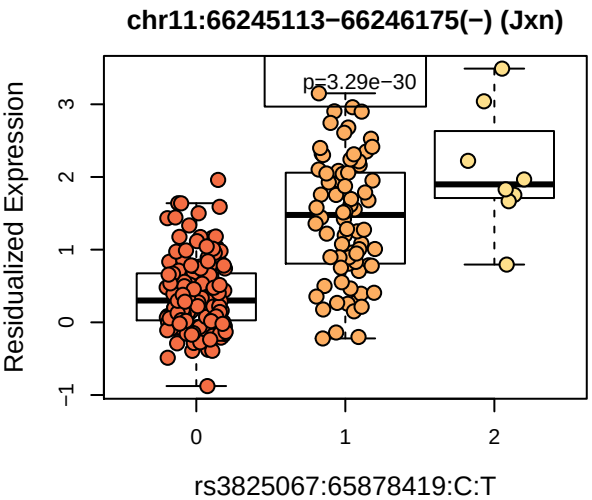
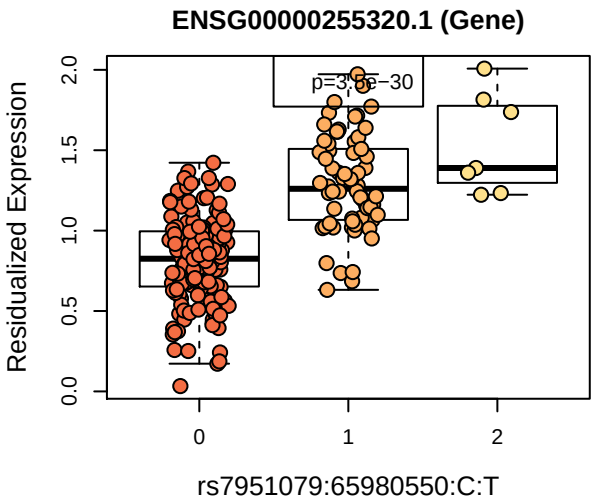
Residualized Expression
rs7120326:65849256:C:T


chr11:66245113−66246175(−) (Jxn)
p=2.66e−30
Residualized Expression
rs10896077:65851733:C:G


chr11:66245113−66246175(−) (Jxn)
p=3.03e−30
Residualized Expression
rs1862005:65863402:T:C


chr11:66245113−66246175(−) (Jxn)
p=3.22e−30
Residualized Expression
rs7932432:65858974:G:T


chr11:66245113−66246175(−) (Jxn)
p=3.29e−30
Residualized Expression
rs3825067:65878419:C:T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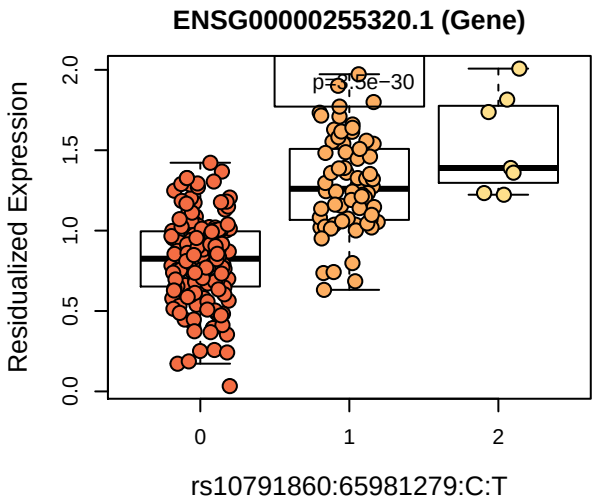
Residualized Expression
rs7951079:65980550:C:T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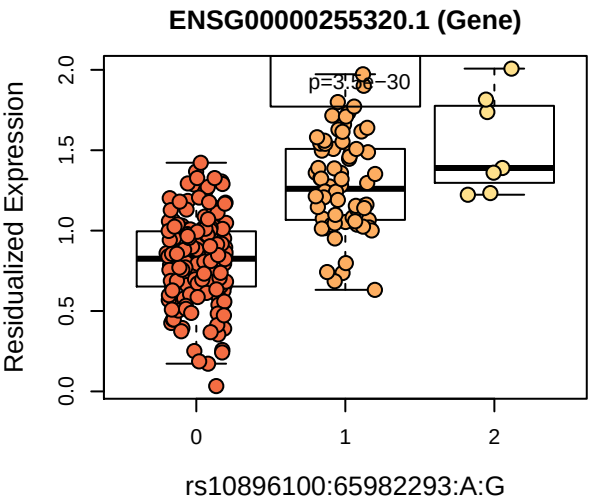
Residualized Expression
rs10791860:65981279:C:T


ENSG00000255320.1 (Gene)
p=3.5e−30
Residualized Expression
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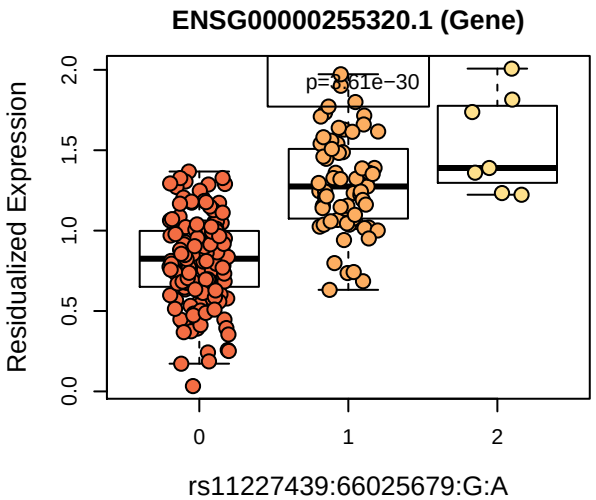
0.5
1.0
1.5
2.0
0
1
2
rs10896100:65982293:A:G


ENSG00000255320.1 (Gene)
p=3.61e−30
Residualized Expression
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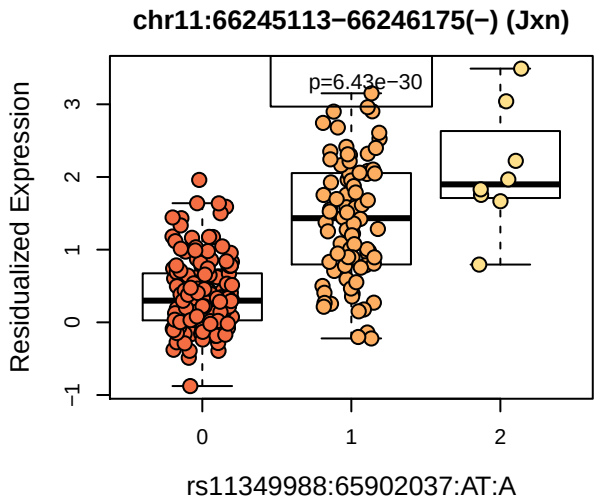
0.5
1.0
1.5
2.0
0
1
2
rs11227439:66025679:G:A


chr11:66245113−66246175(−) (Jxn)
p=6.43e−30
Residualized Expression
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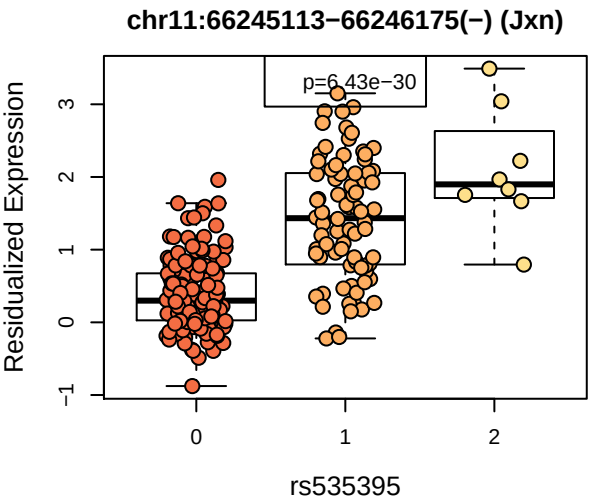
0
1
2
3
0
1
2
rs11349988:65902037:AT:A


chr11:66245113−66246175(−) (Jxn)
p=6.43e−30
Residualized Expression
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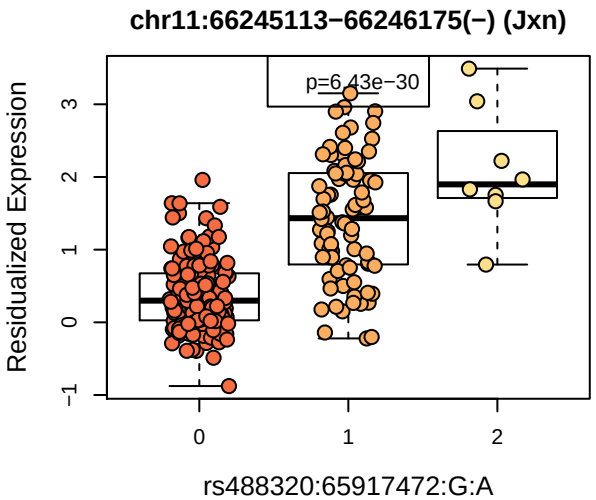
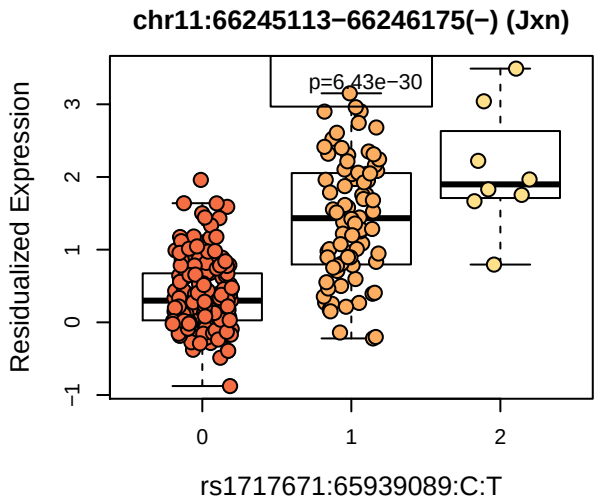
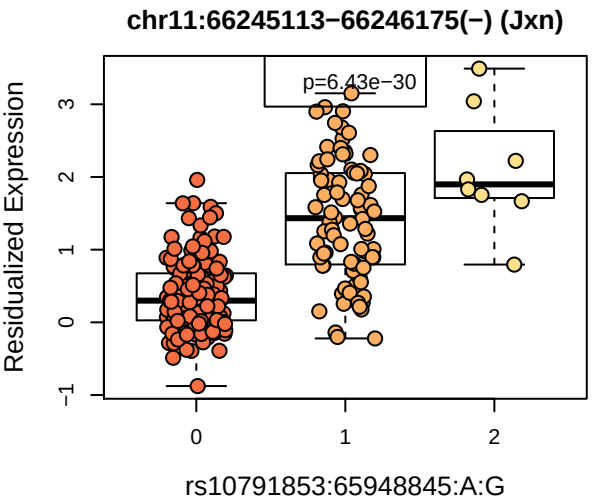
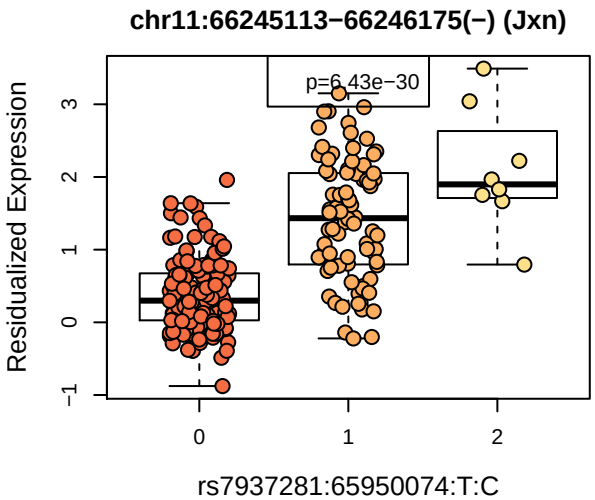
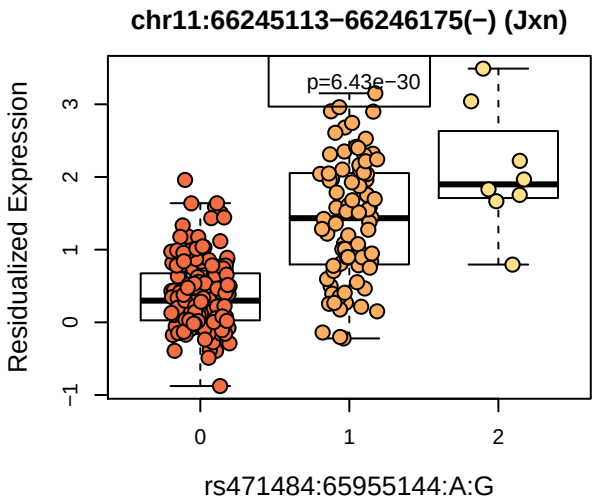
0
1
2
3
0
1
2
rs535395

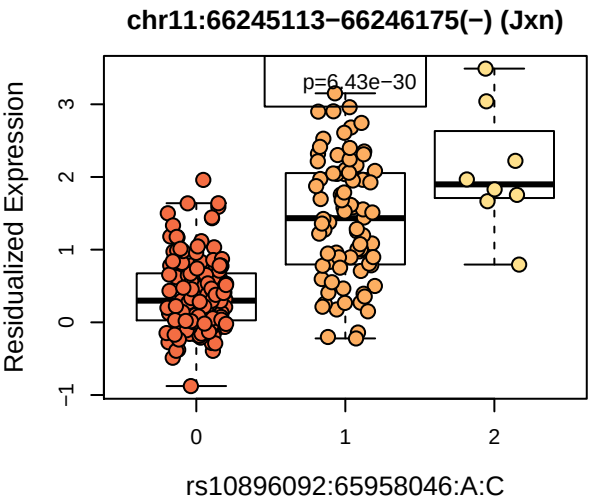

chr11:66245113−66246175(−) (Jxn)
p=6.43e−30
Residualized Expression
−1
0
1
2
3
0
1
2
rs488320:65917472:G:A

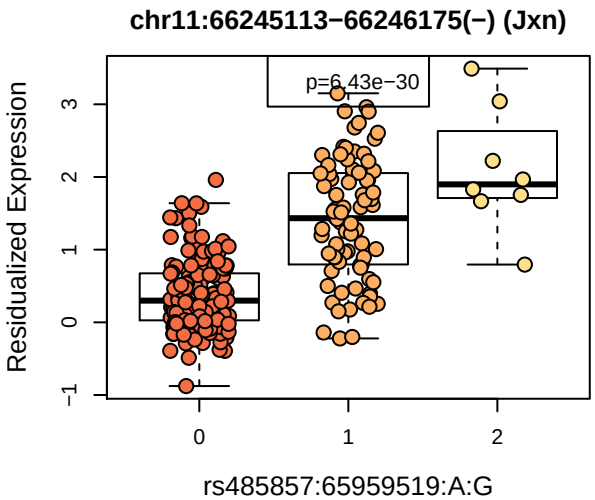

chr11:66245113−66246175(−) (Jxn)
p=6.43e−30
Residualized Expression
−1
0
1
2
3
0
1
2
rs1717671:65939089:C:T


chr11:66245113−66246175(−) (Jxn)
p=6.43e−30
Residualized Expression
rs10791853:65948845:A:G


chr11:66245113−66246175(−) (Jxn)
p=6.43e−30
Residualized Expression
rs7937281:65950074:T:C


chr11:66245113−66246175(−) (Jxn)
p=6.43e−30
Residualized Expression
rs471484:65955144:A:G


chr11:66245113−66246175(−) (Jxn)
p=6.43e−30
Residualized Expression
rs10896092:65958046:A:C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p=6.43e−30
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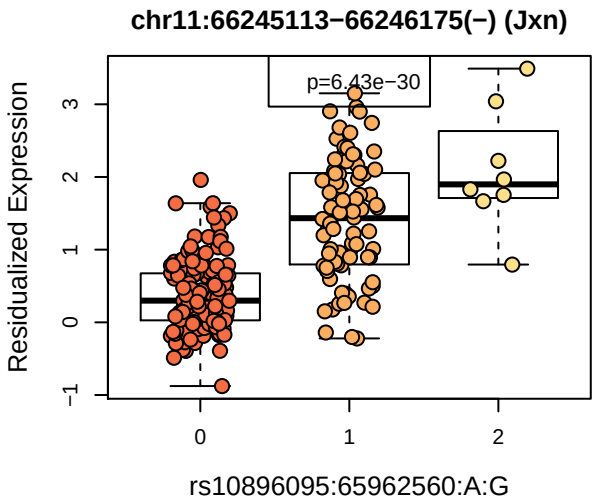
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p=6.43e−30
Residualized Expression
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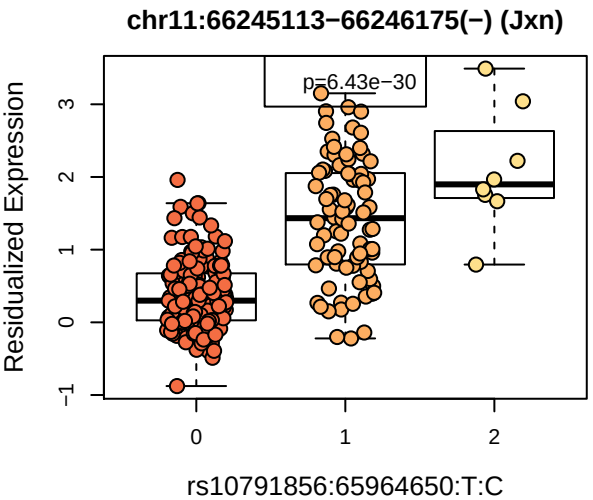
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p=6.43e−30
Residualized Expression
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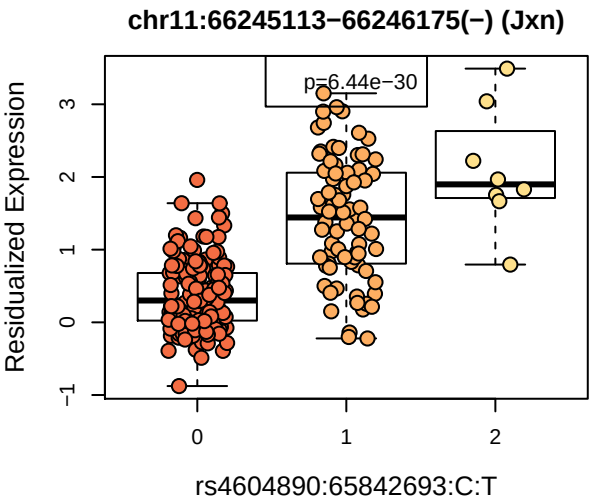
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p=6.44e−30
Residualized Expression
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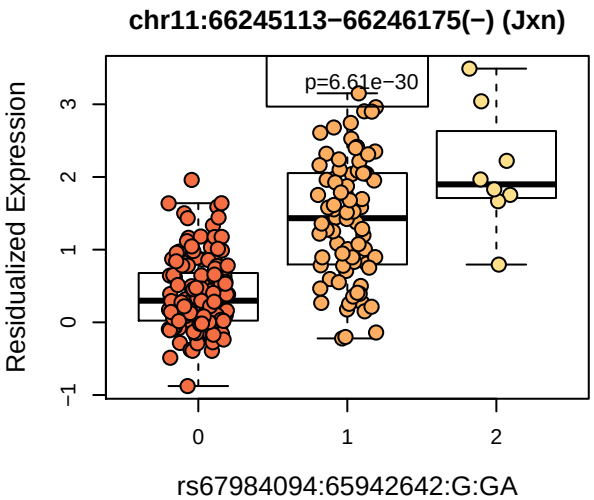
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p=6.61e−30
Residualized Expression
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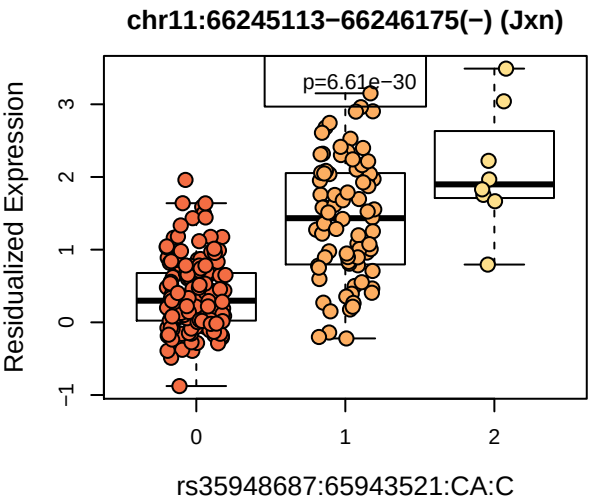
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p=6.61e−30
Residualized Expression
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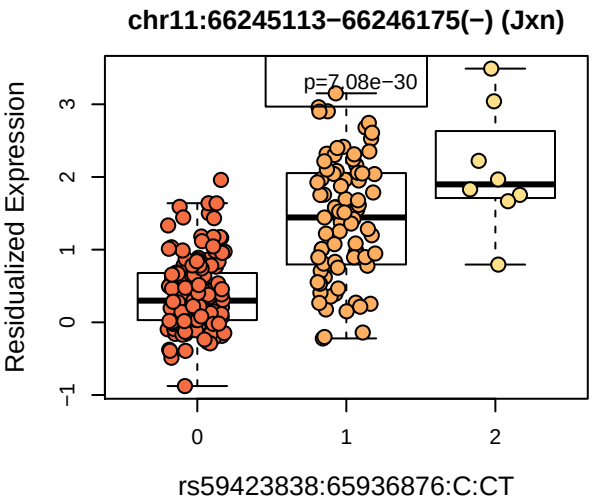
chr11:66245113−66246175(−) (Jxn)
p=7.08e−30
Residualized Expression
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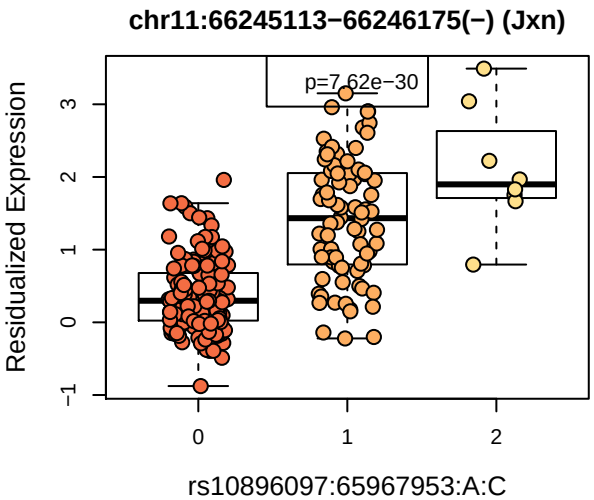
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p=7.62e−30
Residualized Expression
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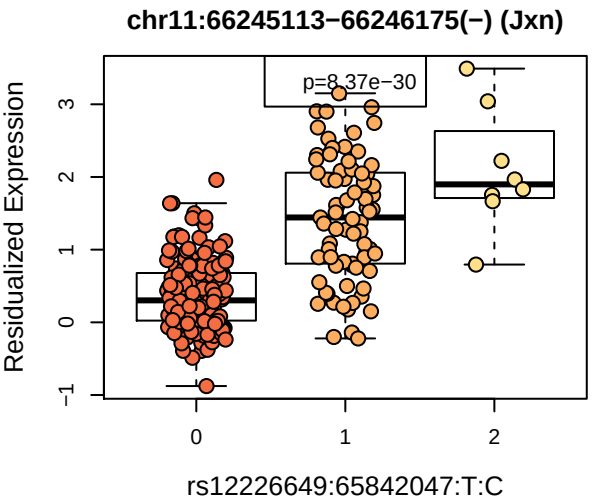
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p=8.37e−30
Residualized Expression
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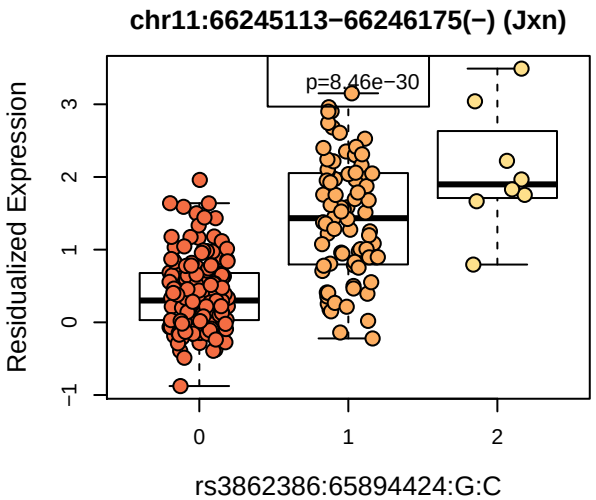
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Residualized Expression
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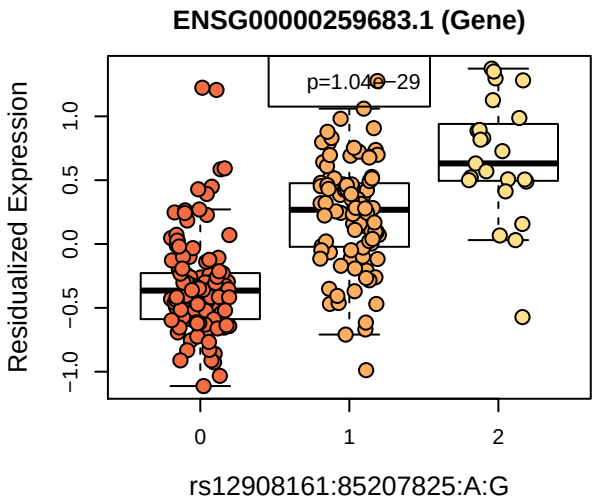
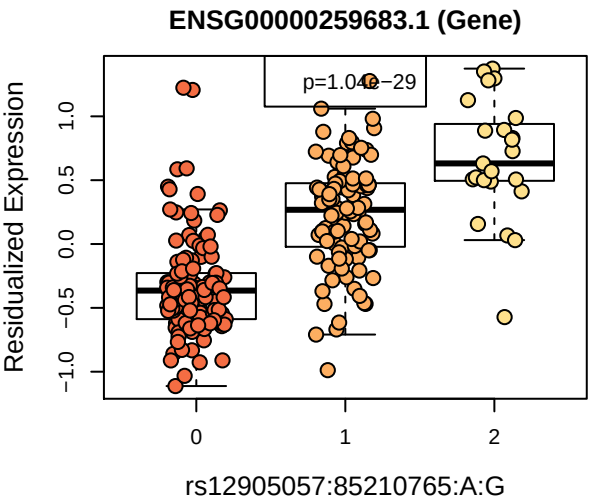

ENSG00000259683.1 (Gene)
p=1.04e−29
Residualized Expression
rs12908161:85207825:A:G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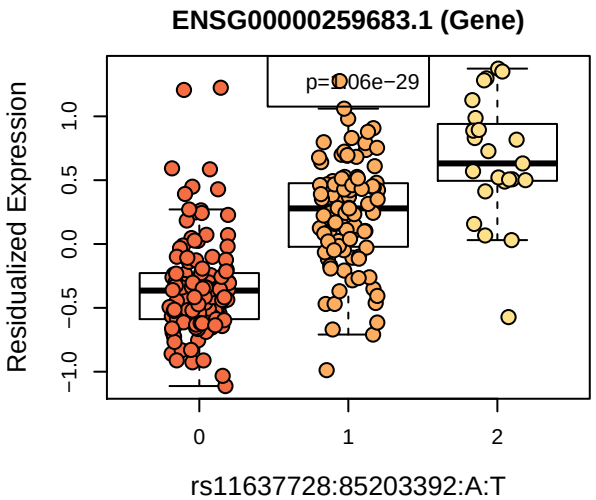
p=1.04e−29
Residualized Expression
rs12905057:85210765:A:G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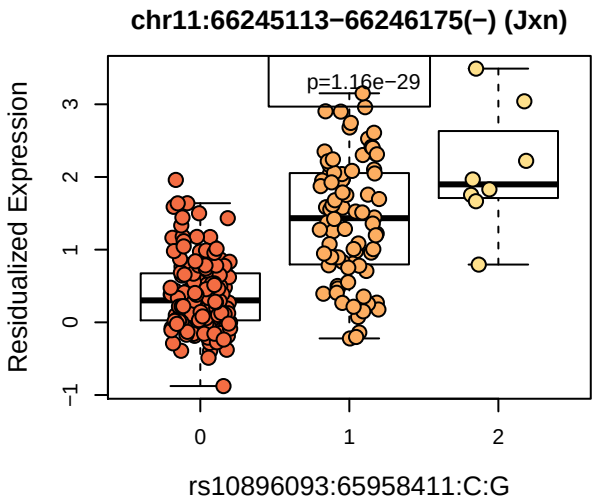
rs11637728:85203392:A:T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Residualized Expression
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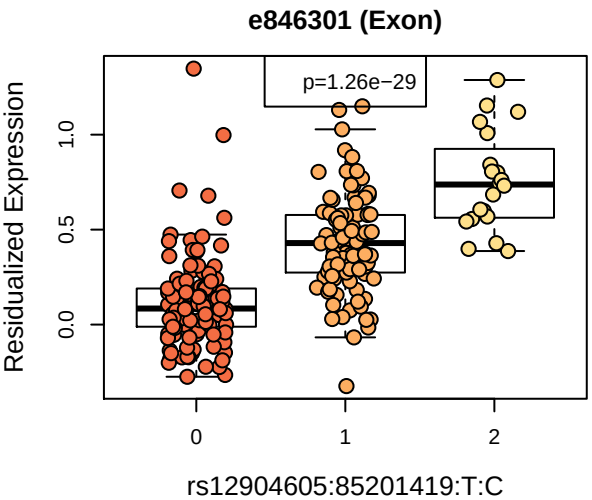
e846301 (Exon)
p=1.26e−29
Residualized Expression
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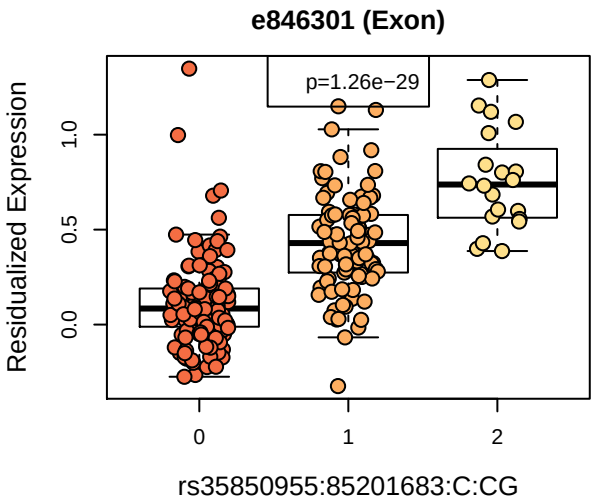
0
1
2
rs12904605:85201419:T:C


e846301 (Exon)
p=1.26e−29
Residualized Expression
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1.0
0
1
2
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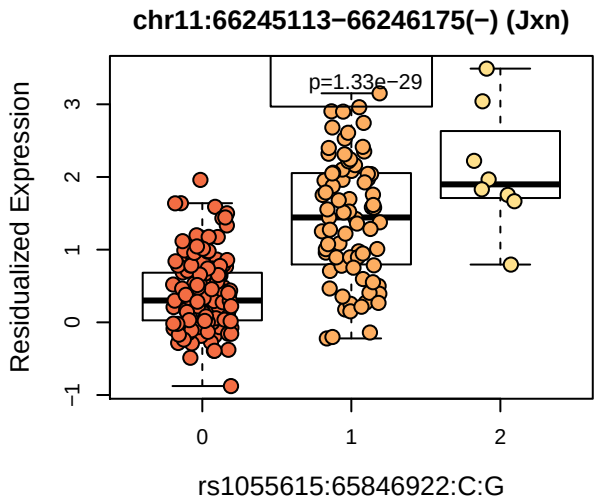
chr11:66245113−66246175(−) (Jxn)
p=1.33e−29
Residualized Expression
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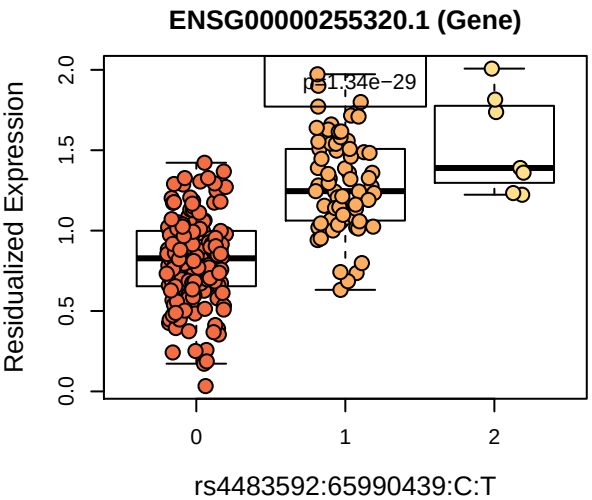
2
3
0
1
2
rs1055615:65846922:C:G


ENSG00000255320.1 (Gene)
p=1.34e−29
Residualized Expression
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1.5
2.0
0
1
2
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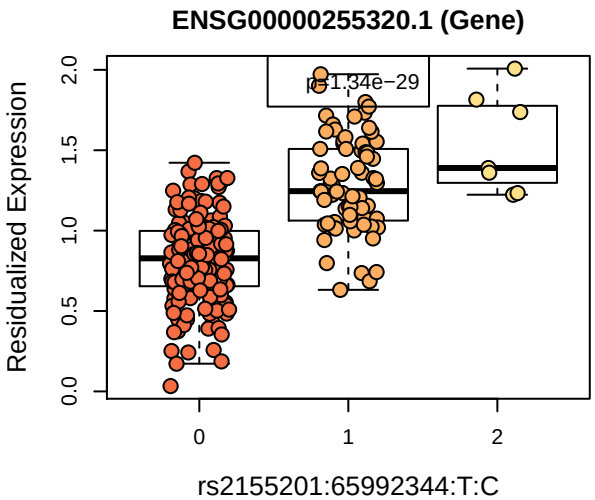
ENSG00000255320.1 (Gene)
p=1.34e−29
Residualized Expression
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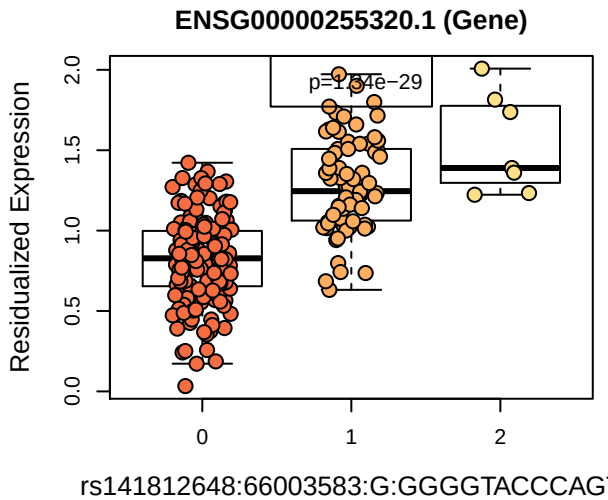
1.0
1.5
2.0
0
1
2
rs2155201:65992344:T:C


ENSG00000255320.1 (Gene)
p=1.34e−29
Residualized Expression
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1.0
1.5
2.0
0
1
2
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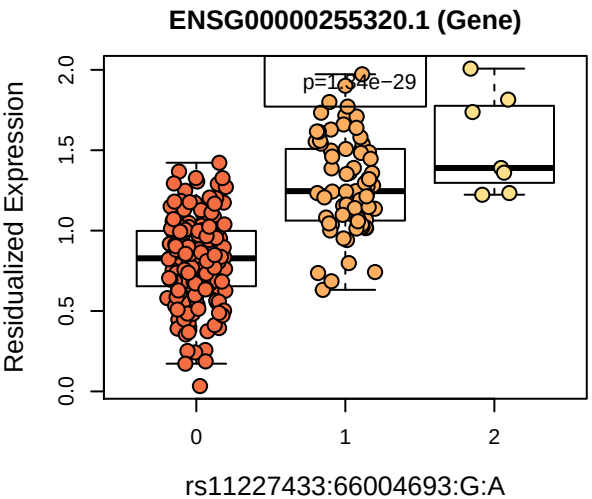
ENSG00000255320.1 (Gene)
p=1.34e−29
Residualized Expression
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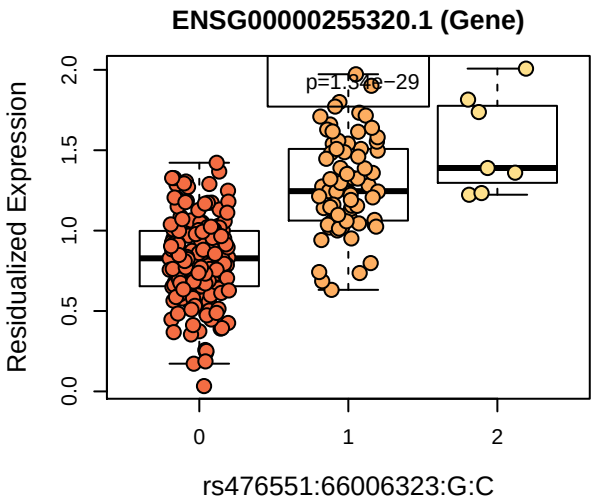
0.5
1.0
1.5
2.0
0
1
2
rs11227433:66004693:G:A


ENSG00000255320.1 (Gene)
p=1.34e−29
Residualized Expression
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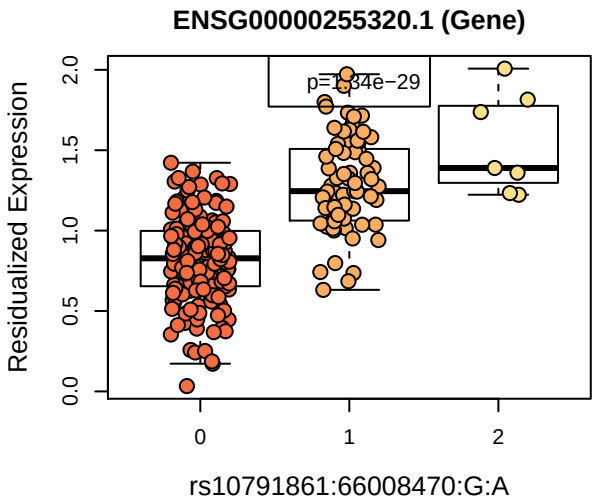
1.0
1.5
2.0
0
1
2
rs476551:66006323:G:C


ENSG00000255320.1 (Gene)
p=1.34e−29
Residualized Expression
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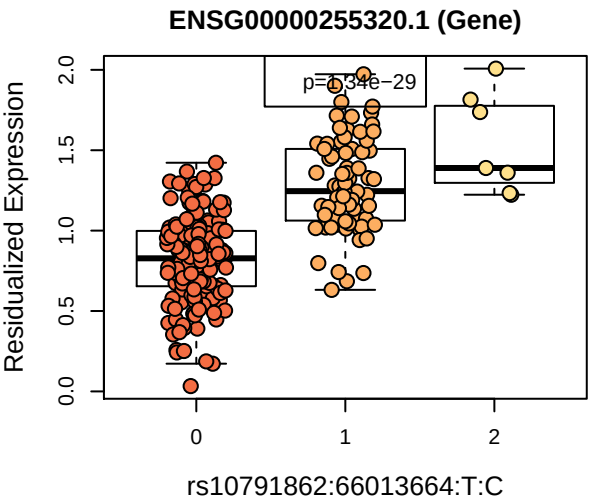
1.0
1.5
2.0
0
1
2
rs10791861:66008470:G:A


ENSG00000255320.1 (Gene)
p=1.34e−29
Residualized Expression
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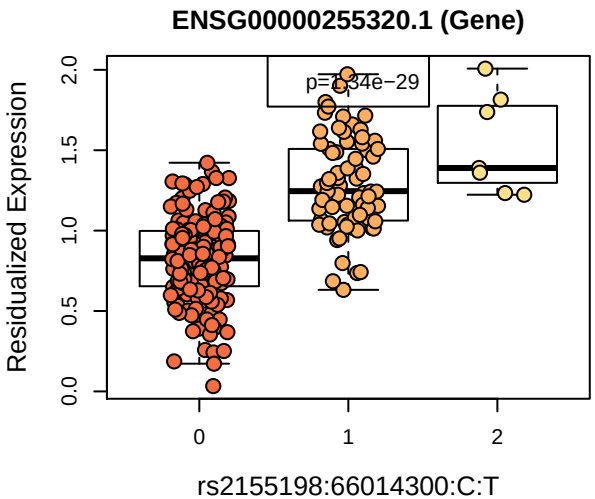
0.5
1.0
1.5
2.0
0
1
2
rs10791862:66013664:T:C


ENSG00000255320.1 (Gene)
p=1.34e−29
Residualized Expression
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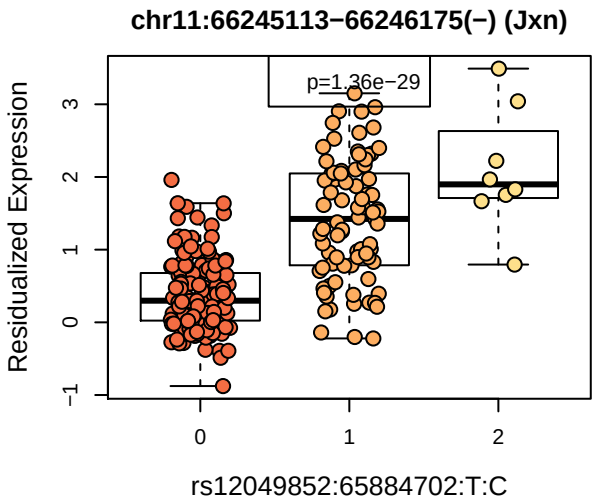
1.5
2.0
0
1
2
rs2155198:66014300:C:T


chr11:66245113−66246175(−) (Jxn)
p=1.36e−29
Residualized Expression
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1
2
3
0
1
2
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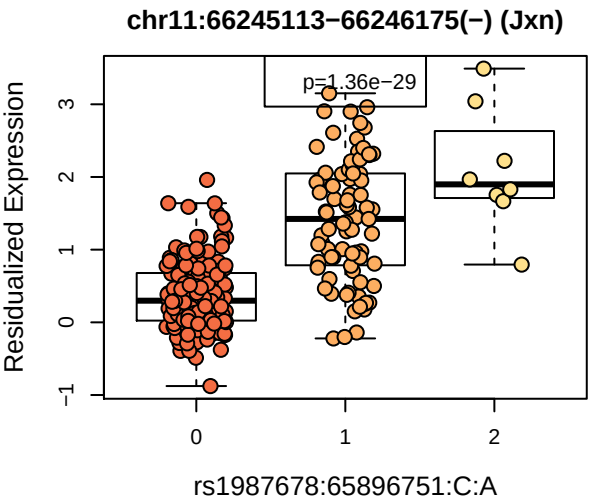
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p=1.36e−29
Residualized Expression
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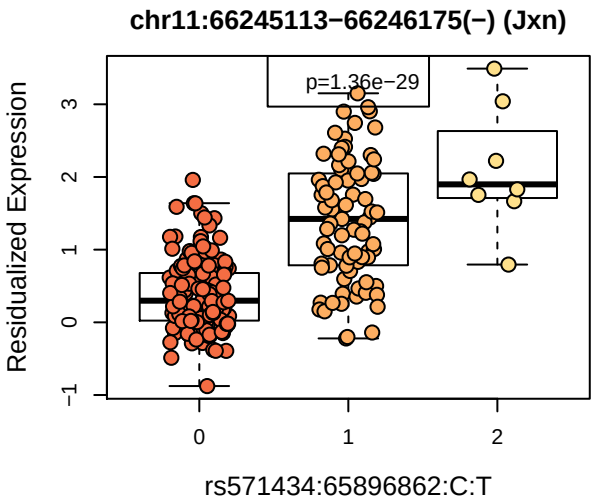
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p=1.36e−29
Residualized Expression
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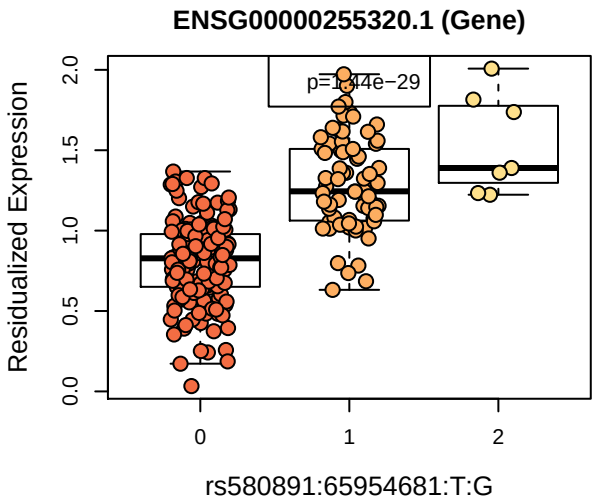
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Residualized Expression
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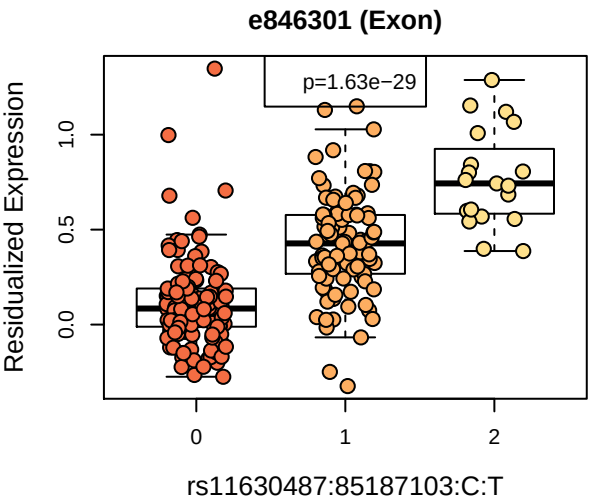
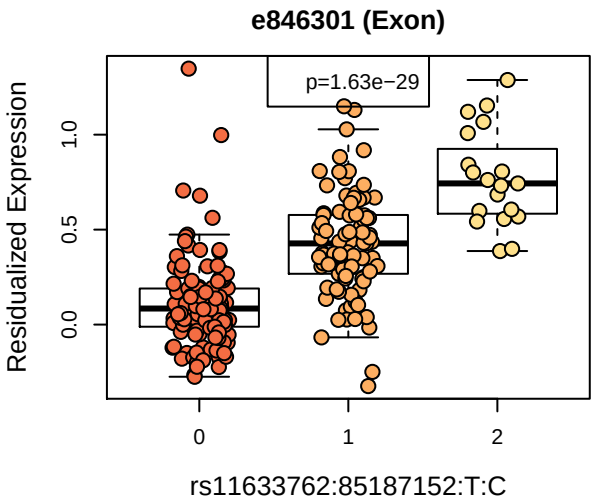

e846301 (Exon)
p=1.63e−29
Residualized Expression
rs11630487:85187103:C:T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p=1.63e−29
Residualized Expression
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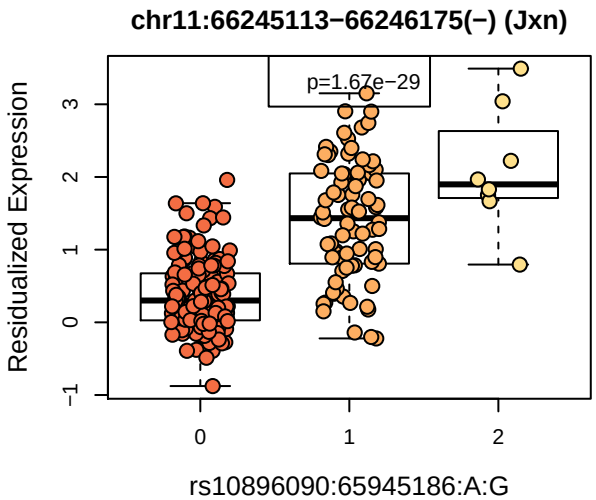
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p=1.67e−29
Residualized Expression
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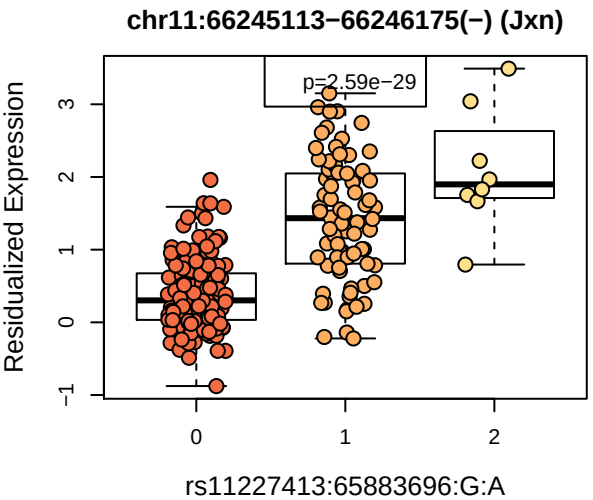
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Residualized Expression
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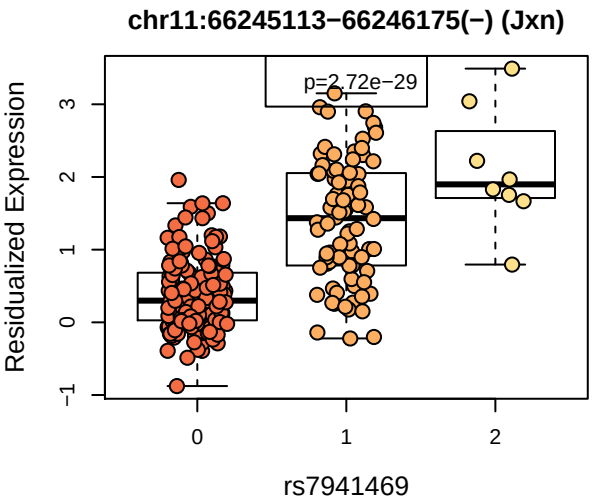
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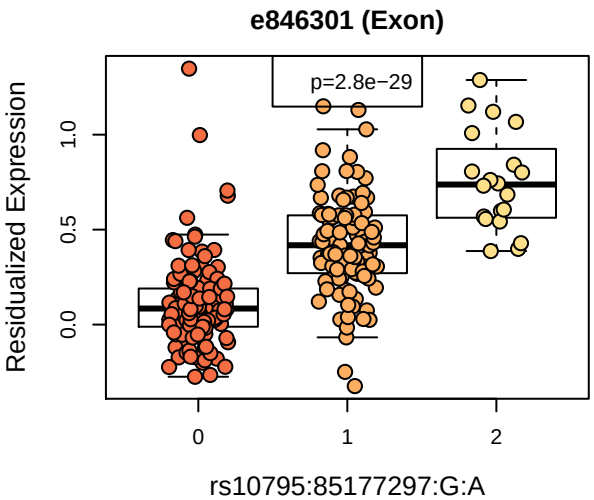
Residualized Expression
rs7941469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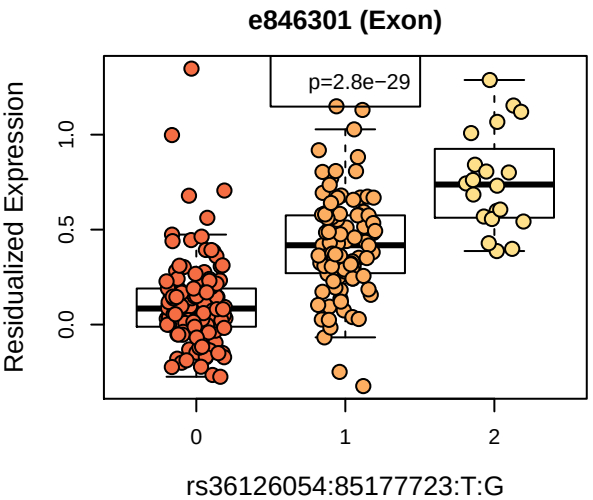
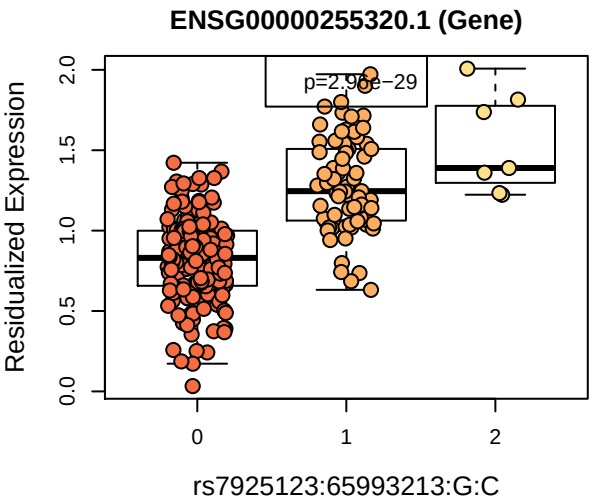
Residualized Expression
rs10795:85177297:G:A


e846301 (Exon)
p=2.8e−29
Residualized Expression
rs36126054:85177723:T:G


ENSG00000255320.1 (Gene)
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Residualized Expression
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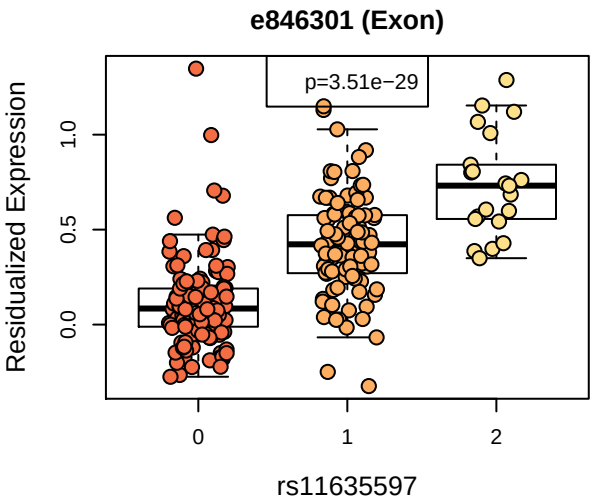
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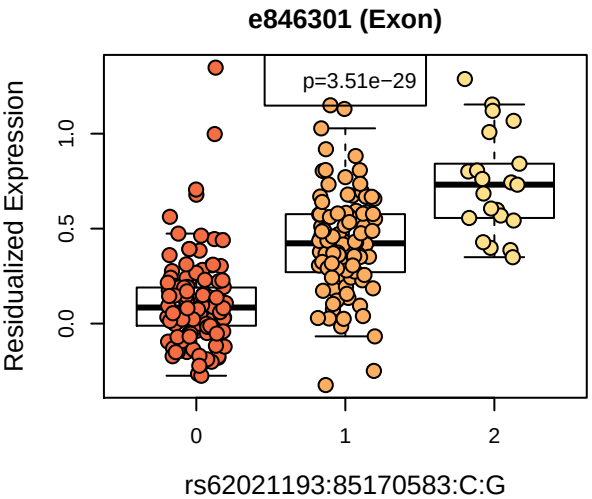
Residualized Expression
rs11635597


e846301 (Exon)
p=3.51e−29
Residualized Expression
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1.0
0
1
2
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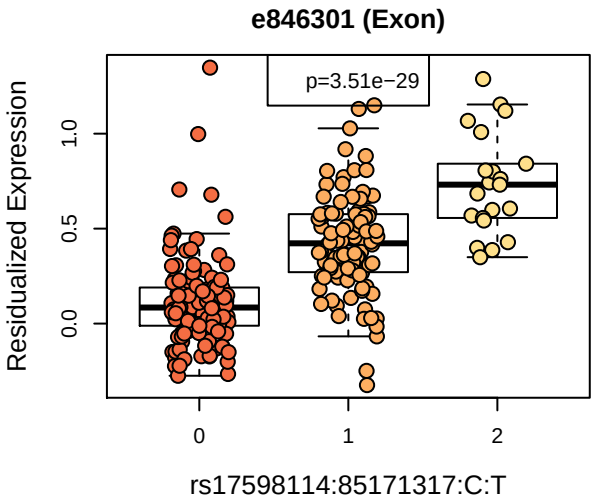
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p=3.51e−29
Residualized Expression
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1.0
0
1
2
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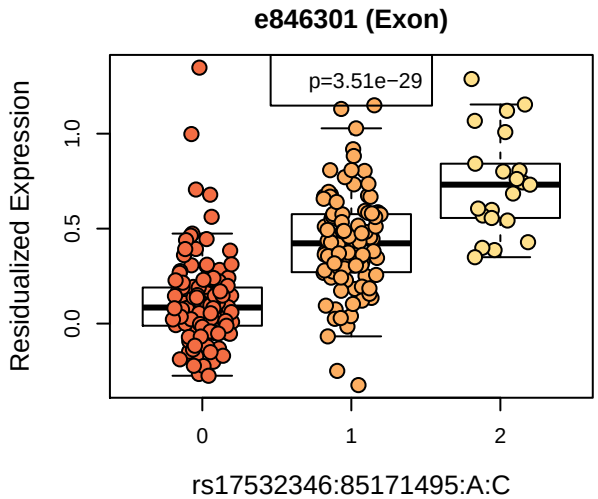
e846301 (Exon)
p=3.51e−29
Residualized Expression
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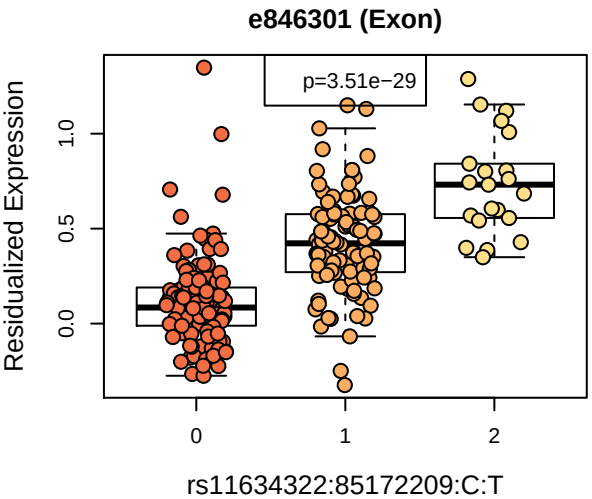
1.0
0
1
2
rs17532346:85171495:A:C


e846301 (Exon)
p=3.51e−29
Residualized Expression
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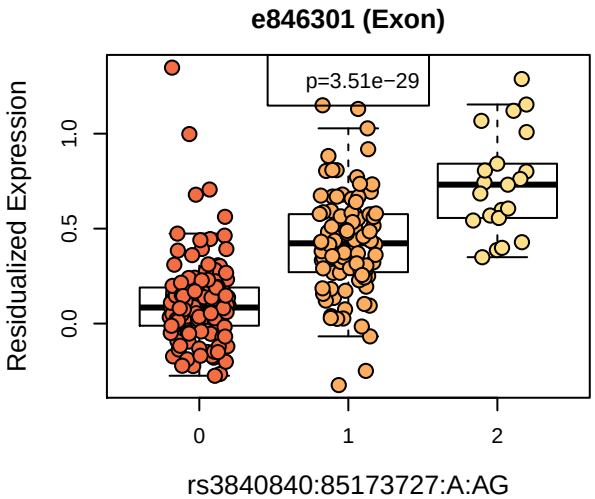
0.5
1.0
0
1
2
rs11634322:85172209:C:T


e846301 (Exon)
p=3.51e−29
Residualized Expression
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1.0
0
1
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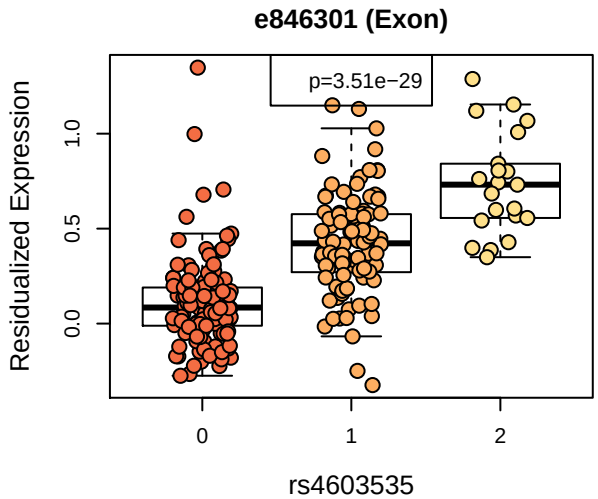
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p=3.51e−29
Residualized Expression
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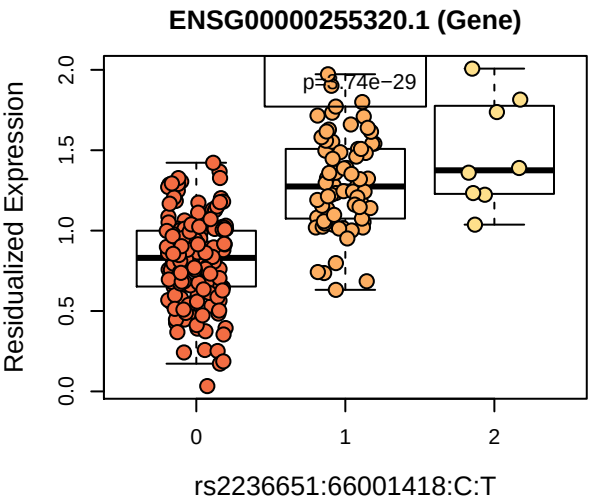
1
2
rs4603535


ENSG00000255320.1 (Gene)
p=3.74e−29
Residualized Expression
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1.5
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0
1
2
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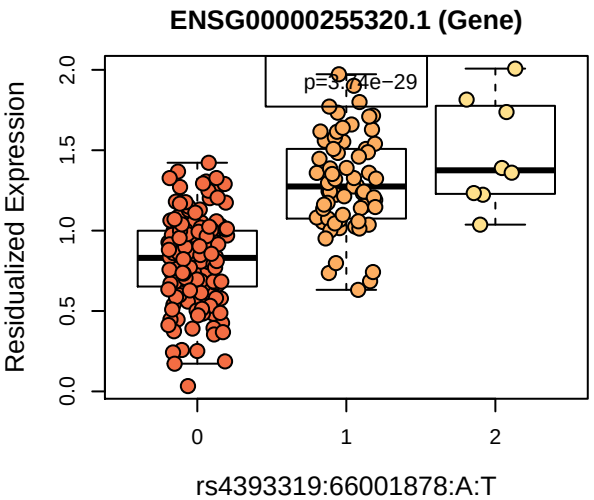
ENSG00000255320.1 (Gene)
p=3.74e−29
Residualized Expression
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1.0
1.5
2.0
0
1
2
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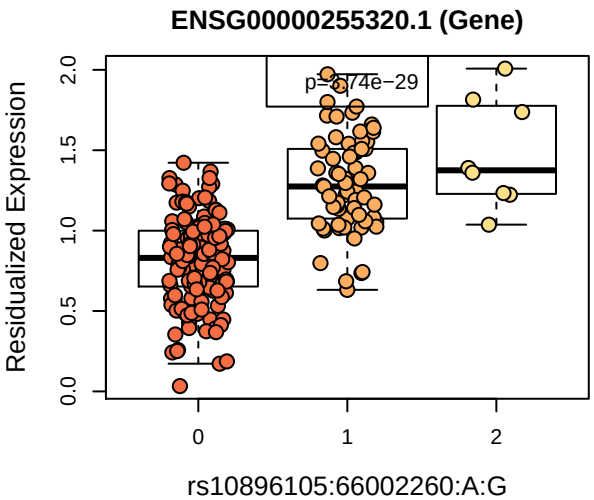
ENSG00000255320.1 (Gene)
p=3.74e−29
Residualized Expression
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1.0
1.5
2.0
0
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2
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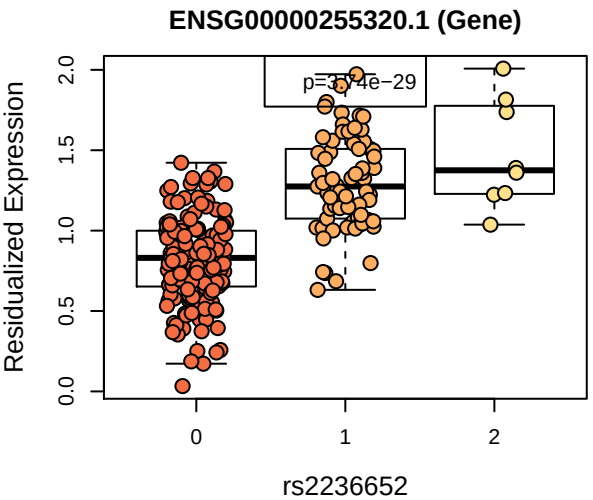
ENSG00000255320.1 (Gene)
p=3.74e−29
Residualized Expression
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1.5
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1
2
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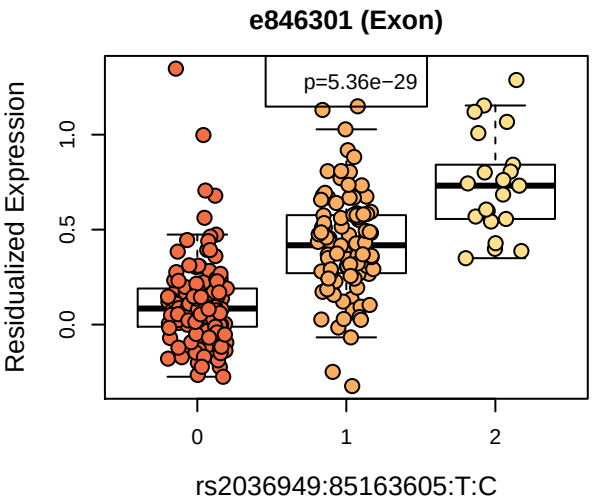
e846301 (Exon)
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Residualized Expression
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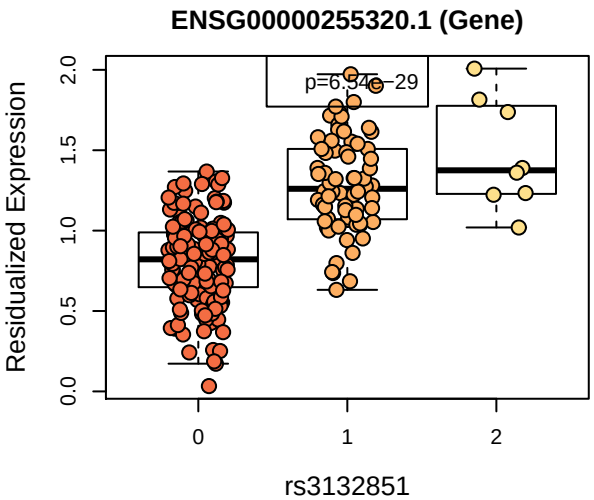
ENSG00000255320.1 (Gene)
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Residualized Expression
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1.5
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1
2
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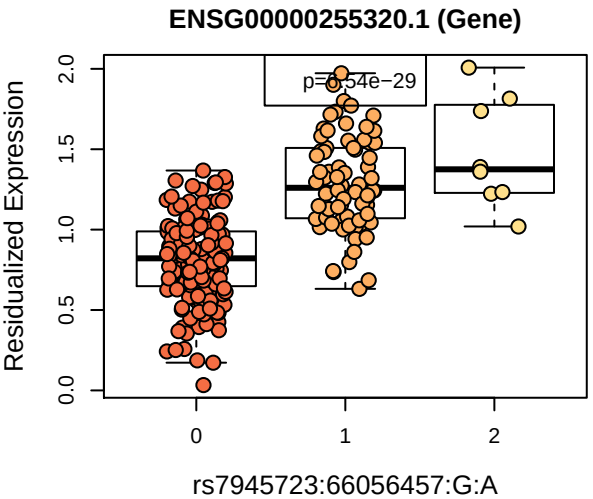
ENSG00000255320.1 (Gene)
p=6.54e−29
Residualized Expression
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1.0
1.5
2.0
0
1
2
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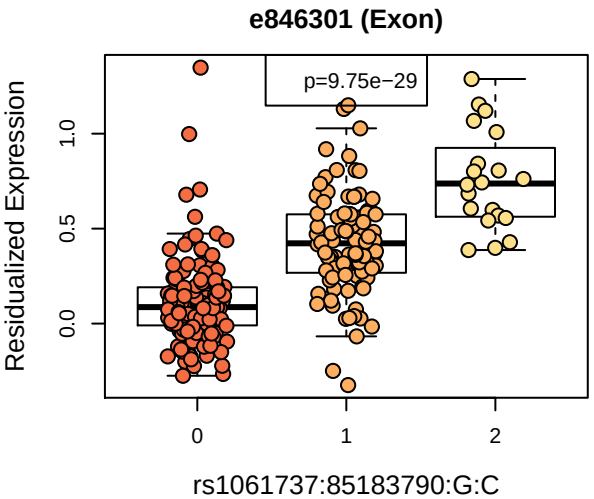
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2
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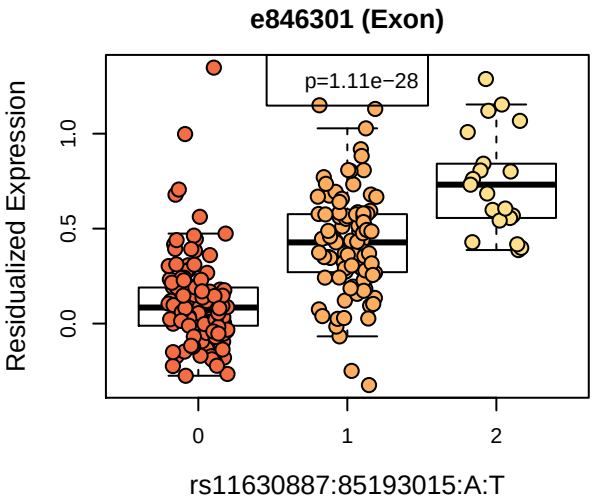
e846301 (Exon)
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Residualized Expression
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0
1
2
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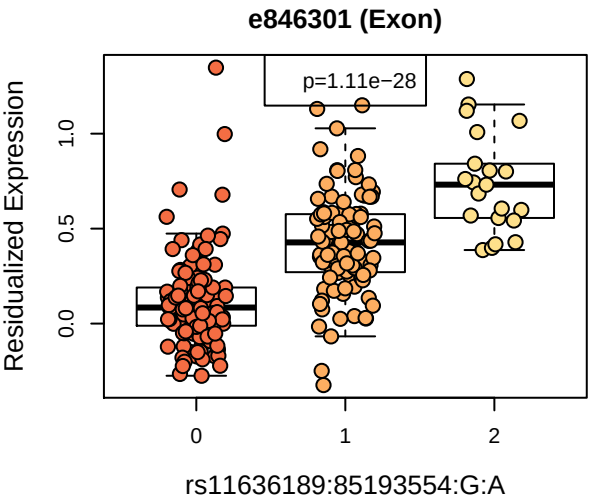
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p=1.11e−28
Residualized Expression
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1
2
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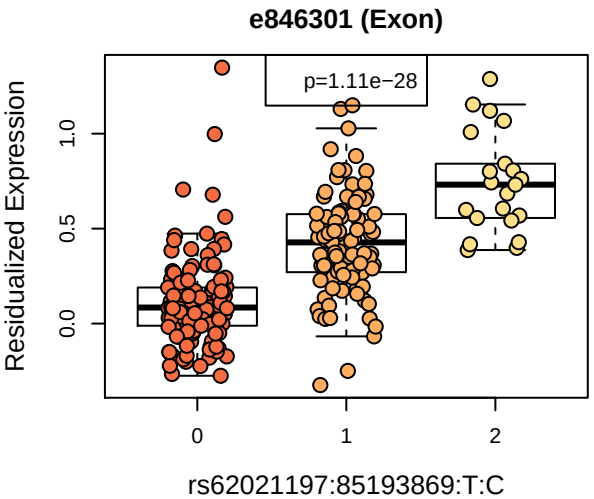
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p=1.11e−28
Residualized Expression
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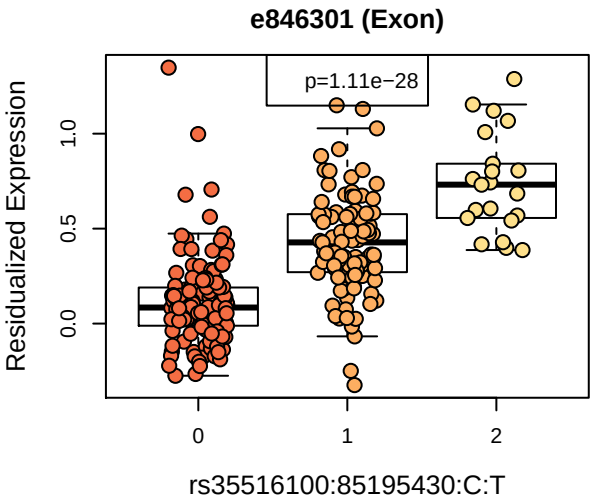
1
2
rs62021197:85193869:T:C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p=1.11e−28
Residualized Expression
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2
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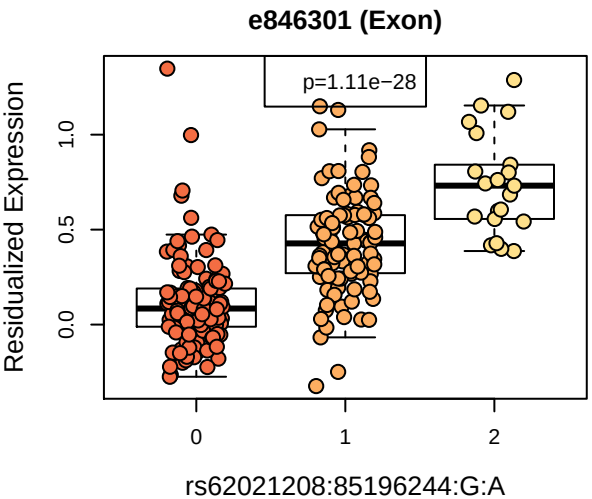
e846301 (Exon)
p=1.11e−28
Residualized Expression
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1
2
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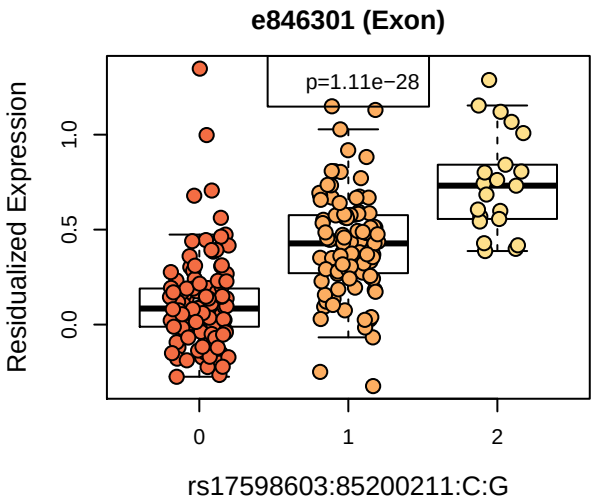
e846301 (Exon)
p=1.11e−28
Residualized Expression
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2
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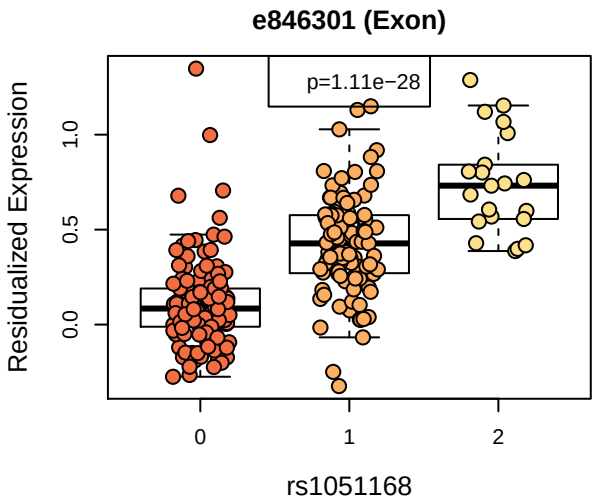
e846301 (Exon)
p=1.11e−28
Residualized Expression
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1.0
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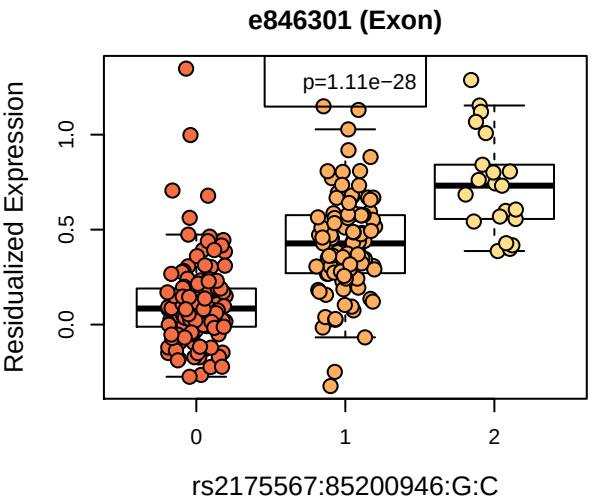
1
2
rs1051168


e846301 (Exon)
p=1.11e−28
Residualized Expression
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1.0
0
1
2
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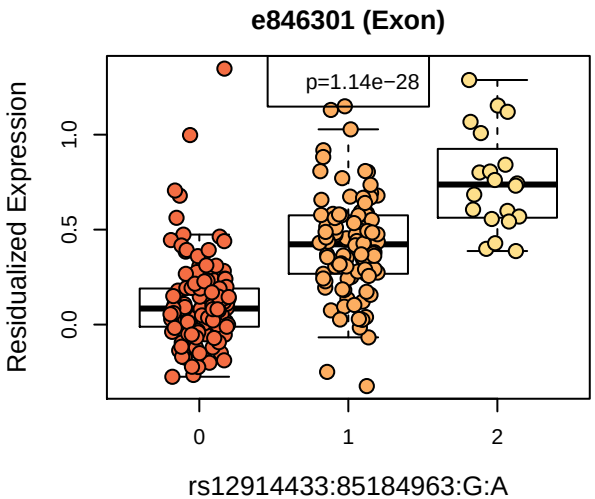
e846301 (Exon)
p=1.14e−28
Residualized Expression
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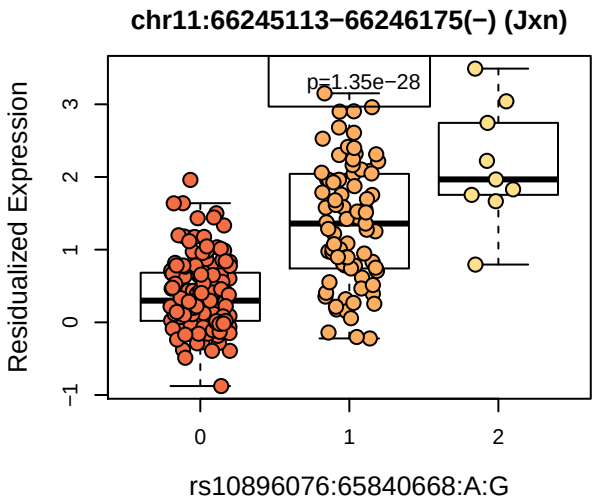
0
1
2
rs12914433:85184963:G:A


chr11:66245113−66246175(−) (Jxn)
p=1.35e−28
Residualized Expression
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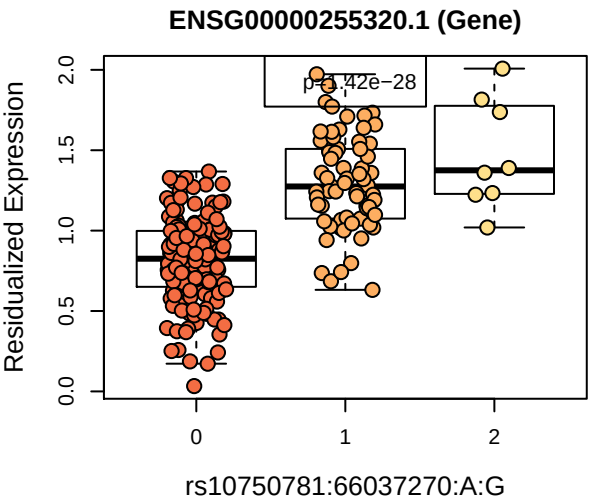
2
3
0
1
2
rs10896076:65840668:A:G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p=1.42e−28
Residualized Expression
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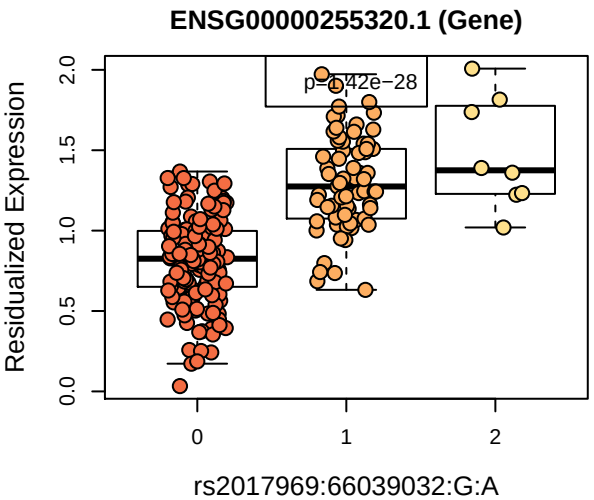
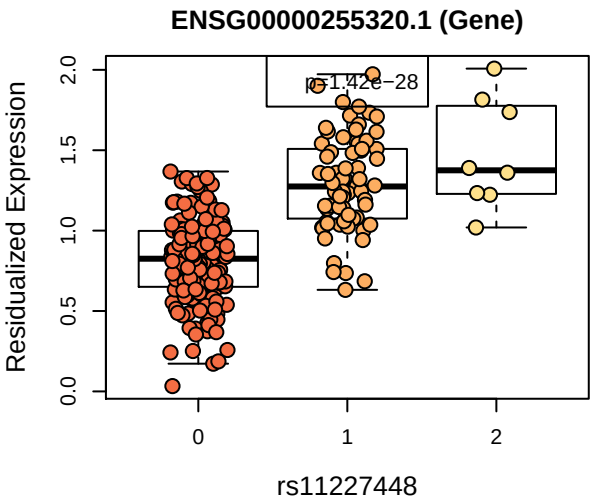

ENSG00000255320.1 (Gene)
p=1.42e−28
Residualized Expression
rs2017969:66039032:G:A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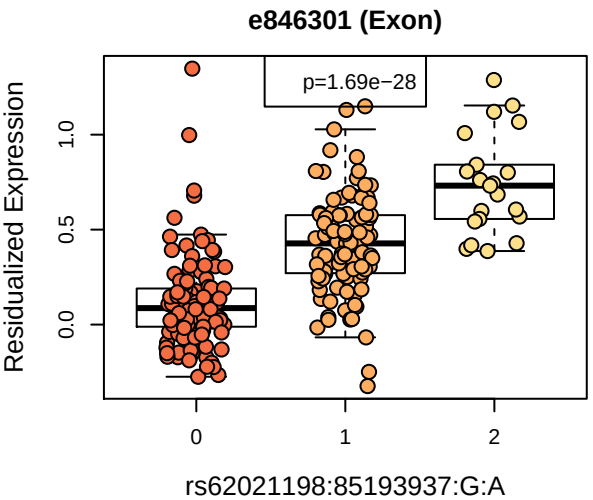
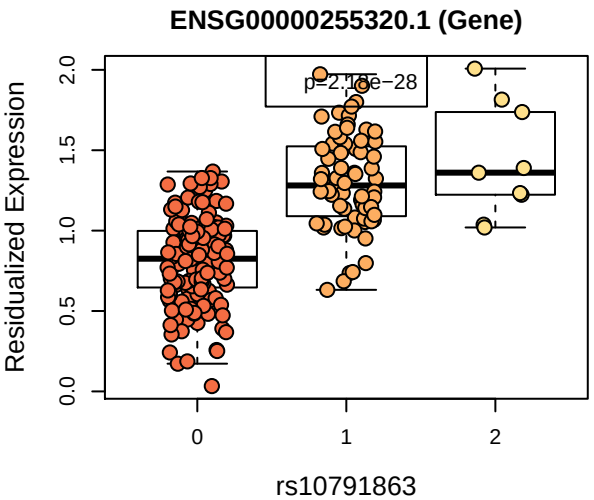
p=1.42e−28
Residualized Expression
rs11227448


e846301 (Exon)
p=1.69e−28
Residualized Expression
rs62021198:85193937:G:A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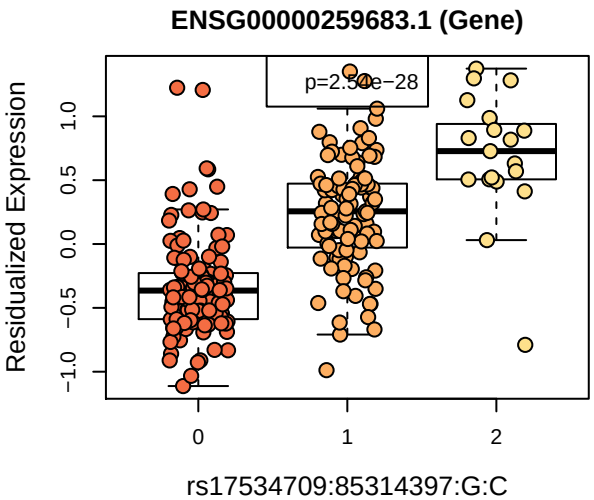
Residualized Expression
rs10791863


ENSG00000259683.1 (Gene)
Residualized Expression
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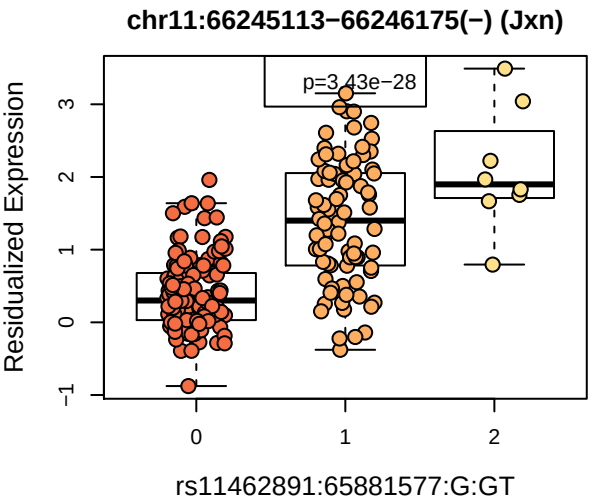
chr11:66245113−66246175(−) (Jxn)
p=3.43e−28
Residualized Expression
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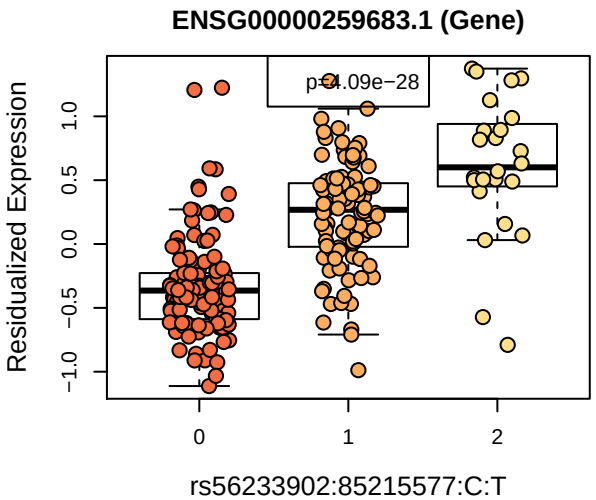
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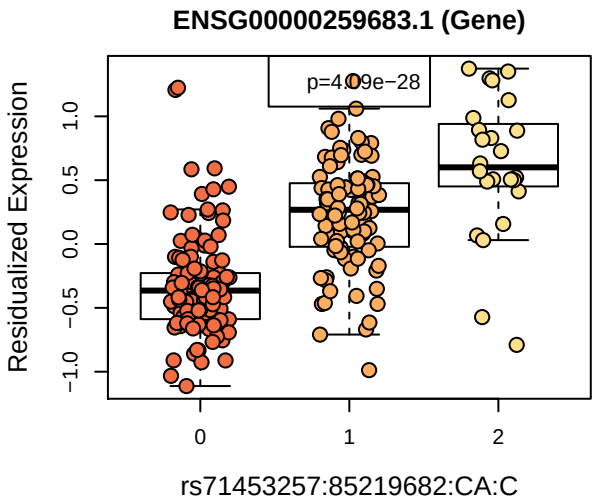
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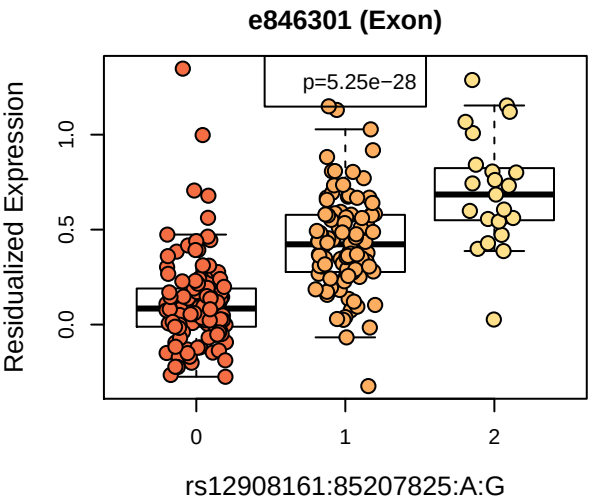
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p=5.25e−28
Residualized Expression
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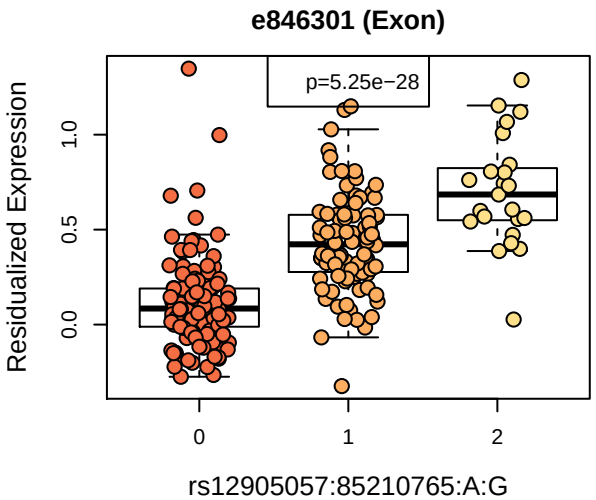
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p=5.25e−28
Residualized Expression
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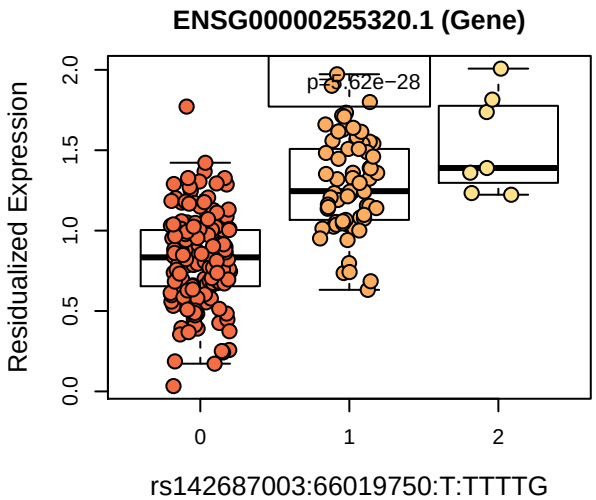
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Residualized Expression
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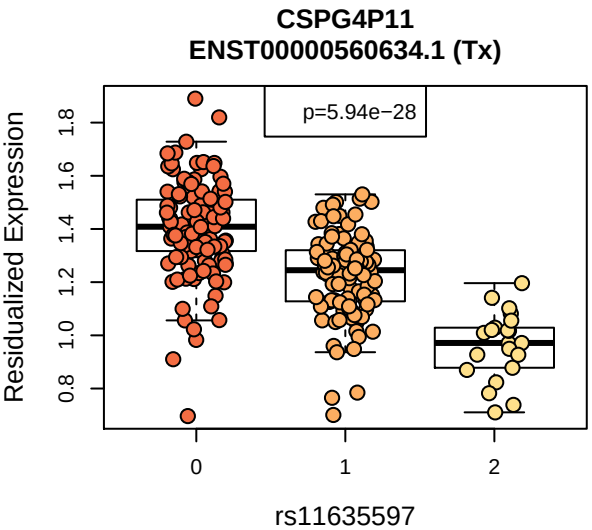
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1.2
1.4
1.6
1.8
0
1
2
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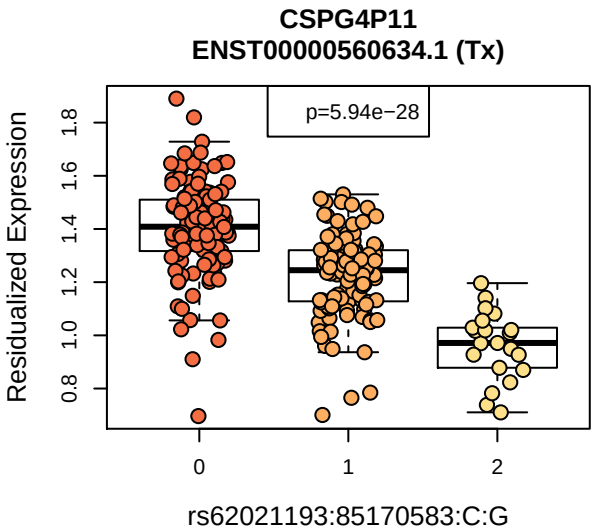
CSPG4P11
ENST00000560634.1 (Tx)
p=5.94e−28
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1.2
1.4
1.6
1.8
0
1
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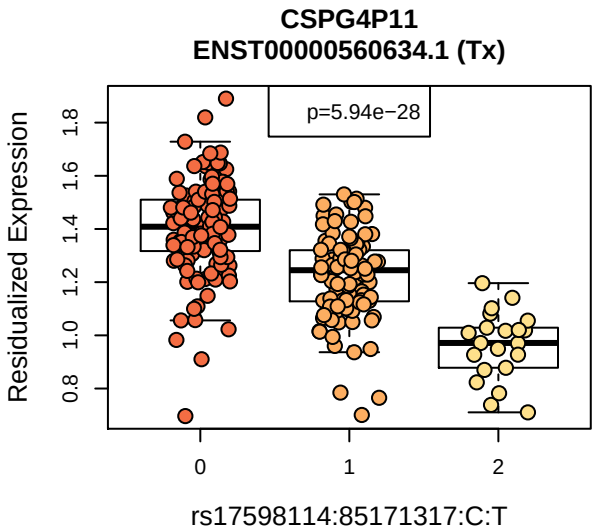
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p=5.94e−28
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1.8
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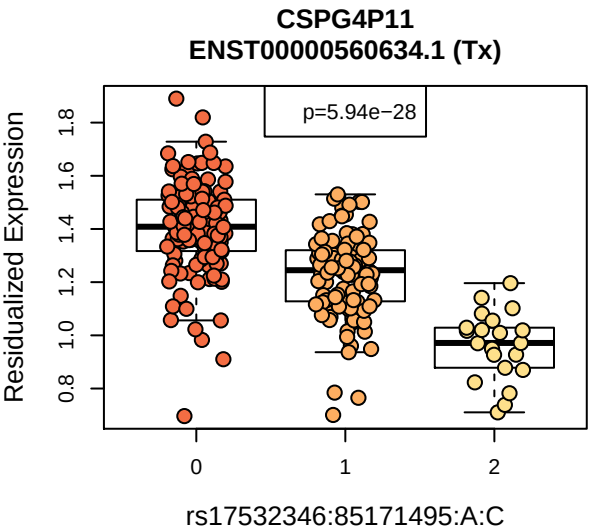
CSPG4P11
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p=5.94e−28
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1.2
1.4
1.6
1.8
0
1
2
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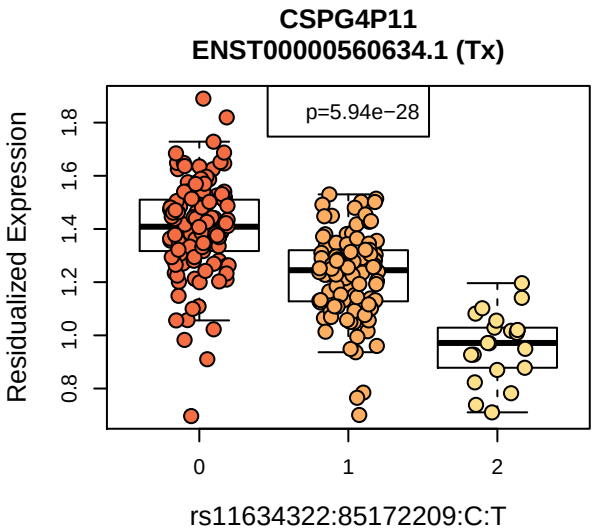
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1.6
1.8
0
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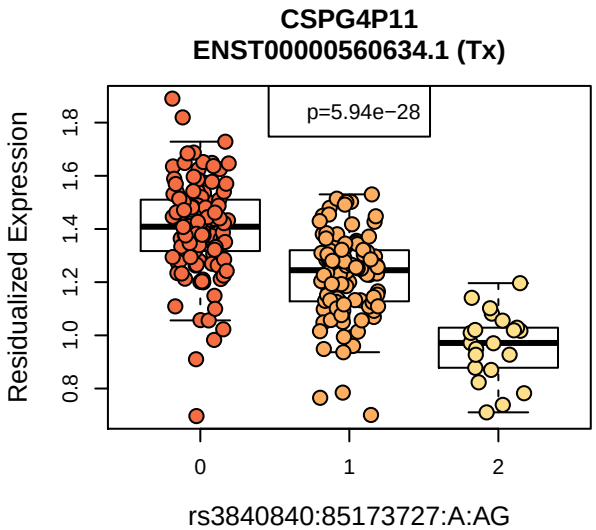
CSPG4P11
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p=5.94e−28
Residualized Expression
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1.2
1.4
1.6
1.8
0
1
2
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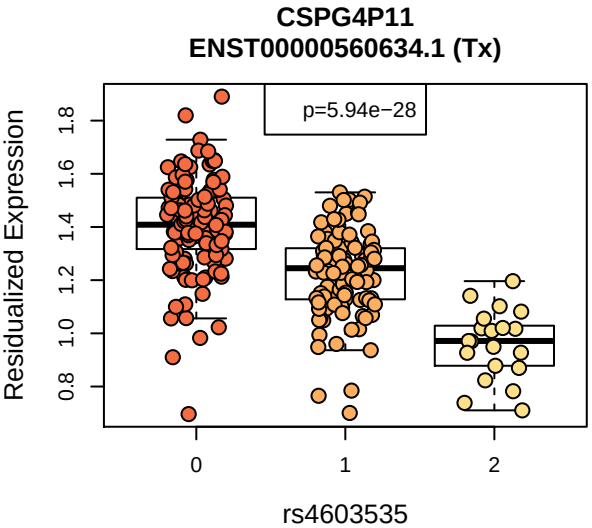
CSPG4P11
ENST00000560634.1 (Tx)
p=5.94e−28
Residualized Expression
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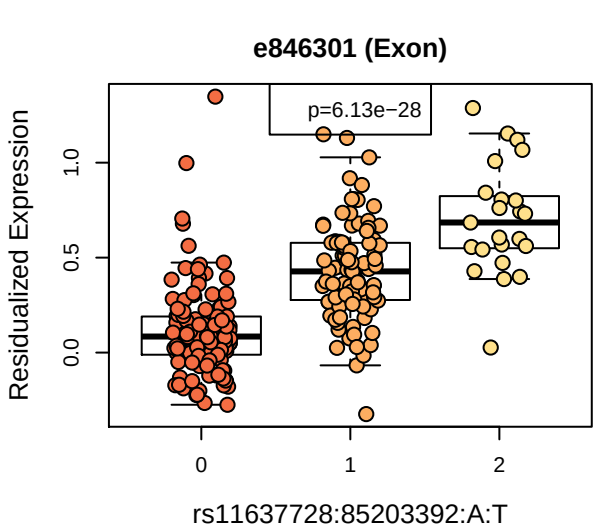
1.2
1.4
1.6
1.8
0
1
2
rs4603535


e846301 (Exon)
p=6.13e−28
Residualized Expression
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0.5
1.0
0
1
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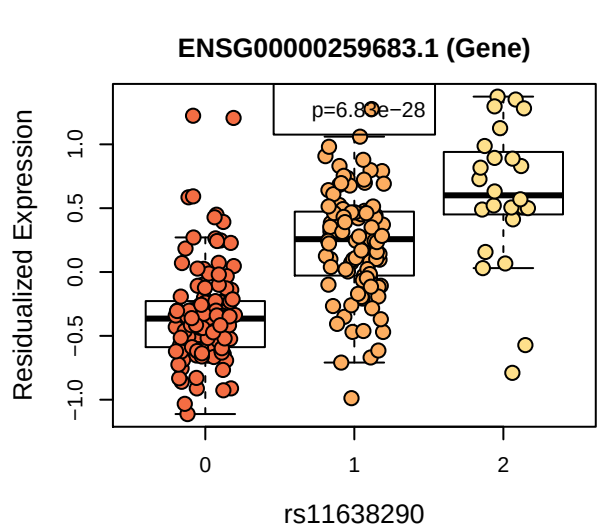
ENSG00000259683.1 (Gene)
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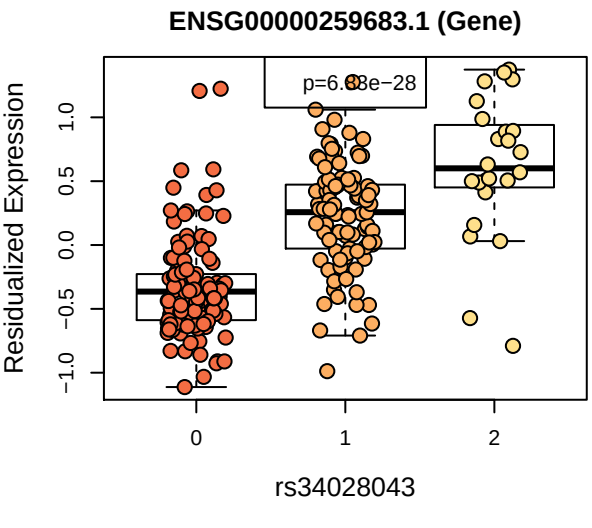
0.5
1.0
0
1
2
rs11638290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0.5
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0
1
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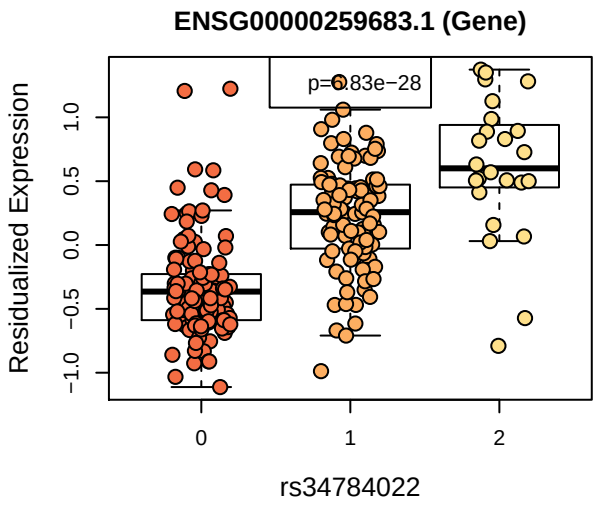
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0.5
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0
1
2
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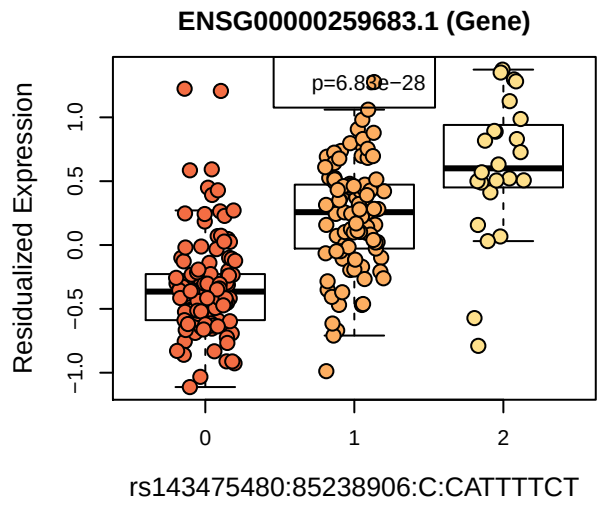
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Residualized Expression
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0.5
1.0
0
1
2
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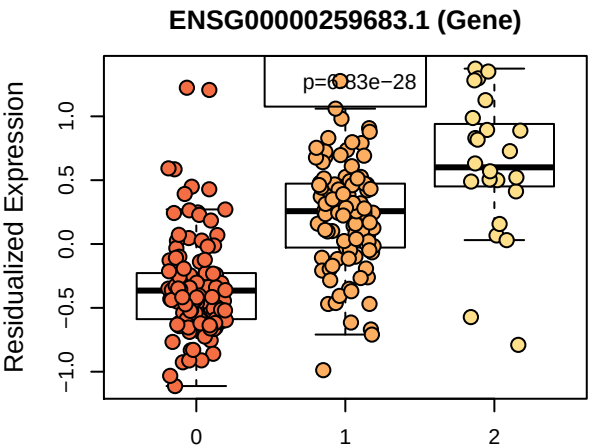
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Residualized Expression
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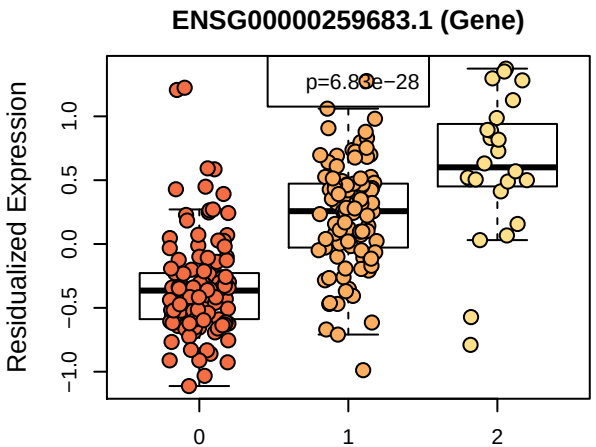
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Residualized Expression
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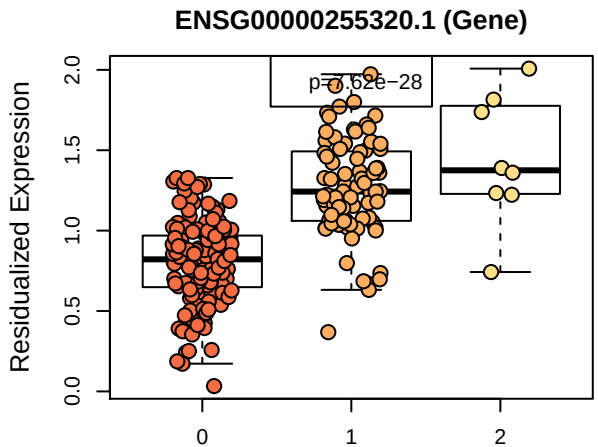
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Residualized Expression
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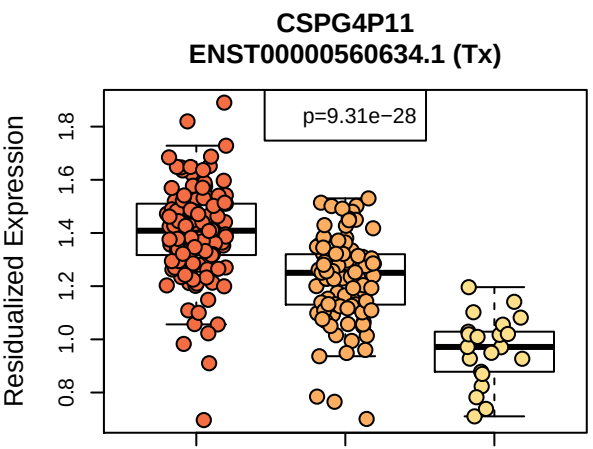
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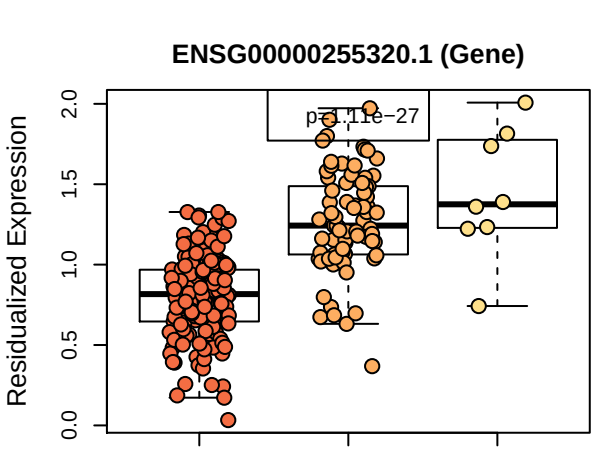
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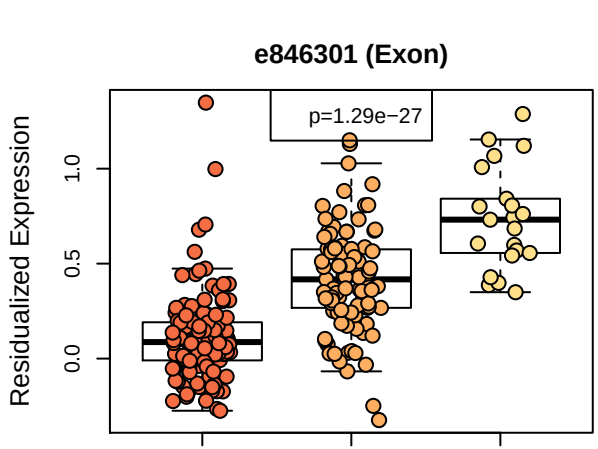
e846301 (Exon)
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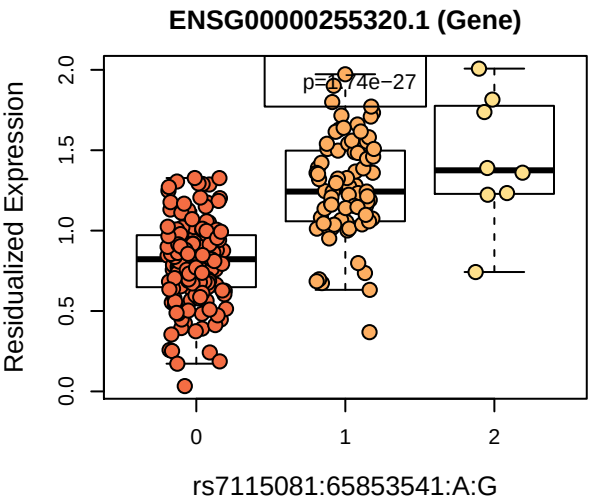
Residualized Expression
rs11634320


ENSG00000255320.1 (Gene)
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1.5
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0
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2
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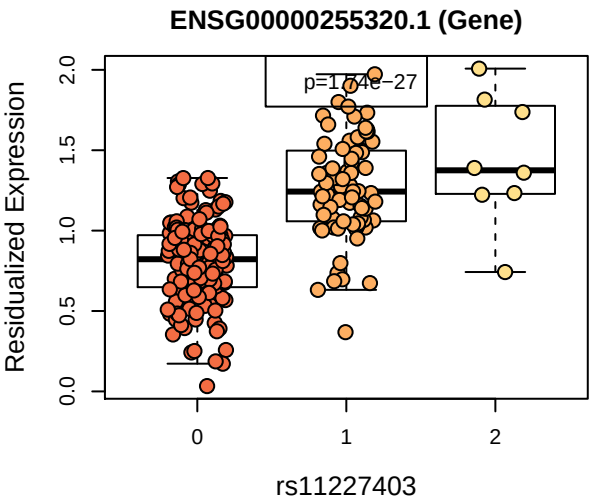
ENSG00000255320.1 (Gene)
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Residualized Expression
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1.5
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1
2
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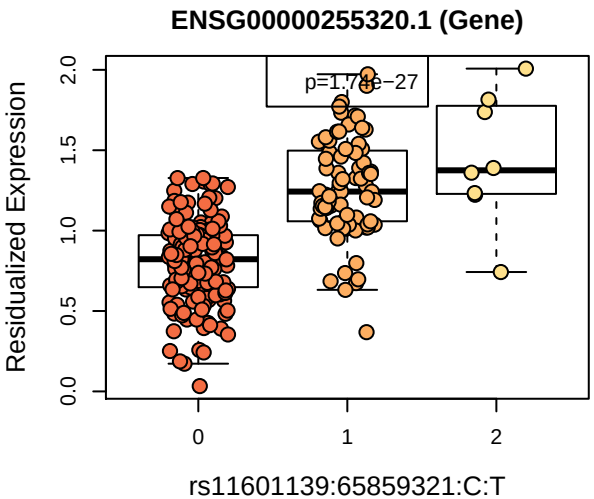
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Residualized Expression
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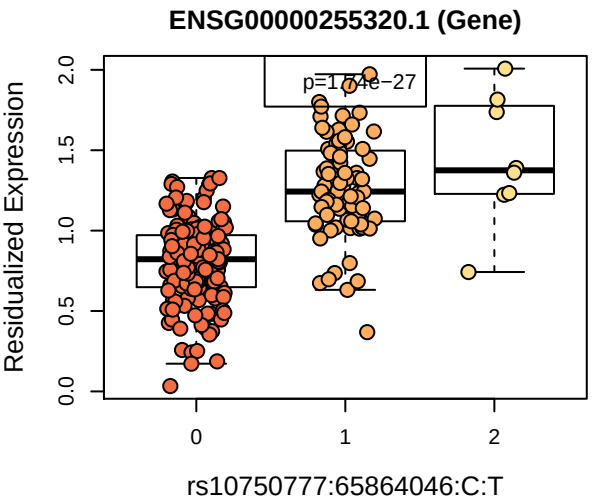
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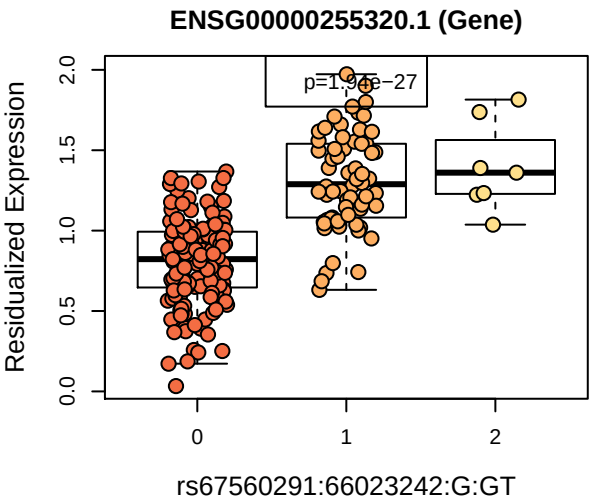
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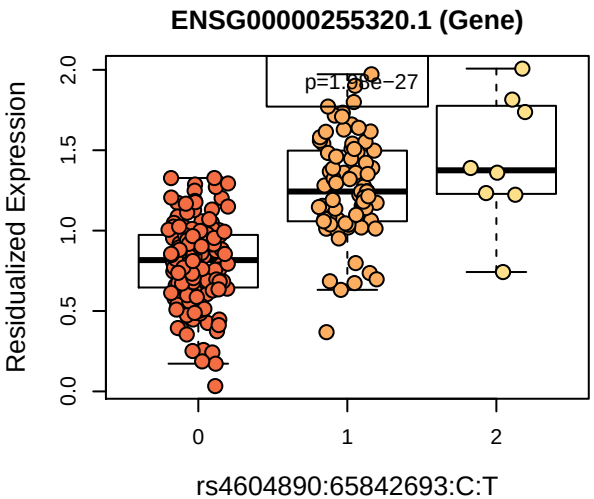
ENSG00000255320.1 (Gene)
p=1.9e−27
Residualized Expression
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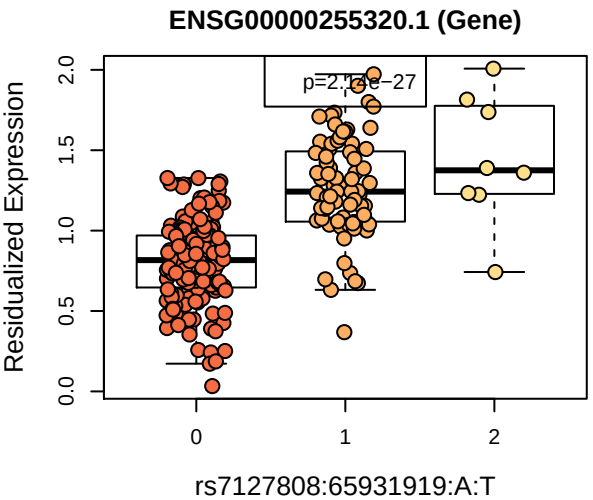
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Residualized Expression
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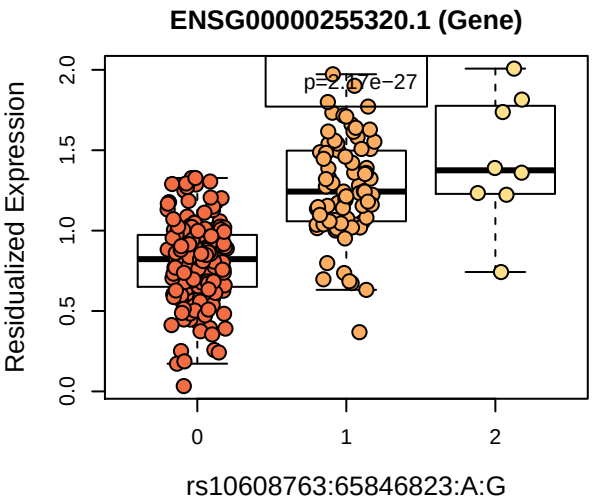
ENSG00000255320.1 (Gene)
Residualized Expression
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1.5
2.0
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1
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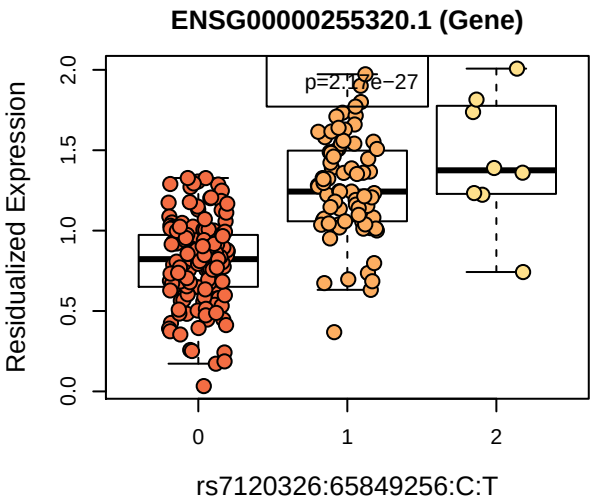
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Residualized Expression
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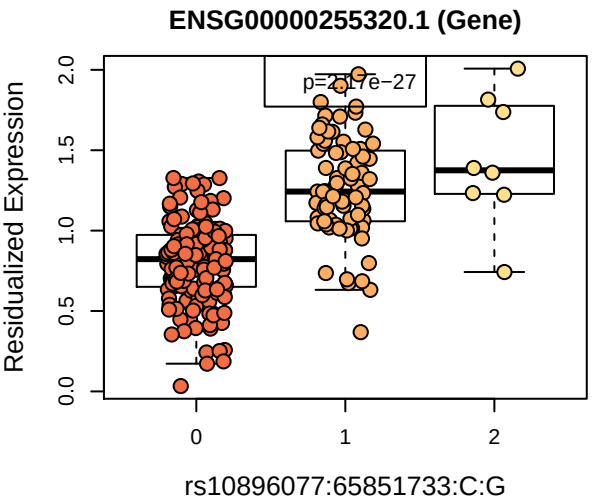
ENSG00000255320.1 (Gene)
Residualized Expression
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2.0
0
1
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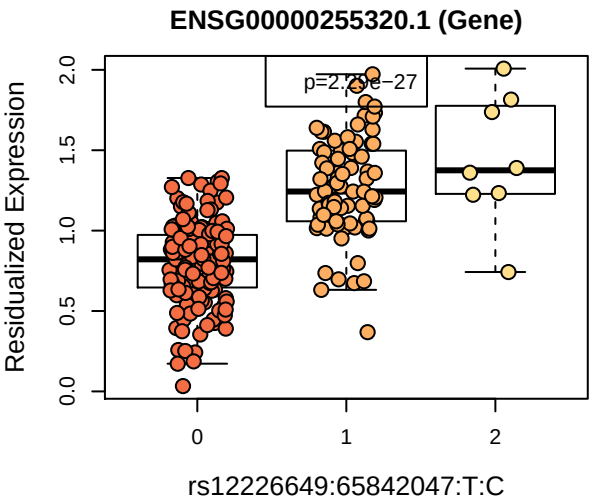
ENSG00000255320.1 (Gene)
Residualized Expression
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1.0
1.5
2.0
0
1
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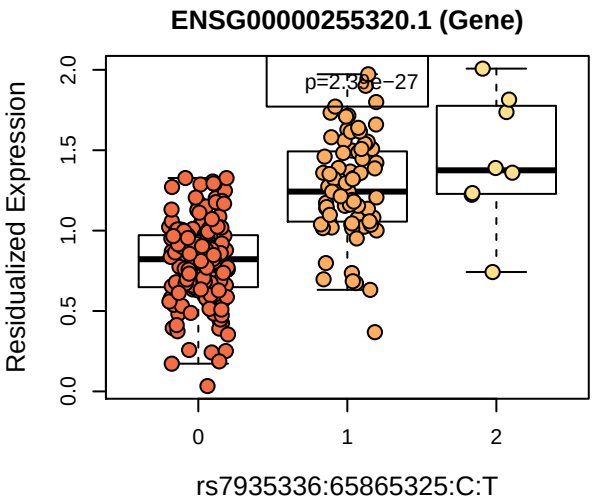
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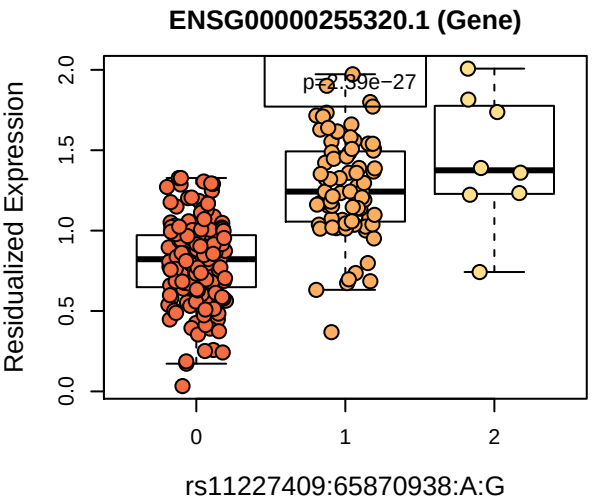
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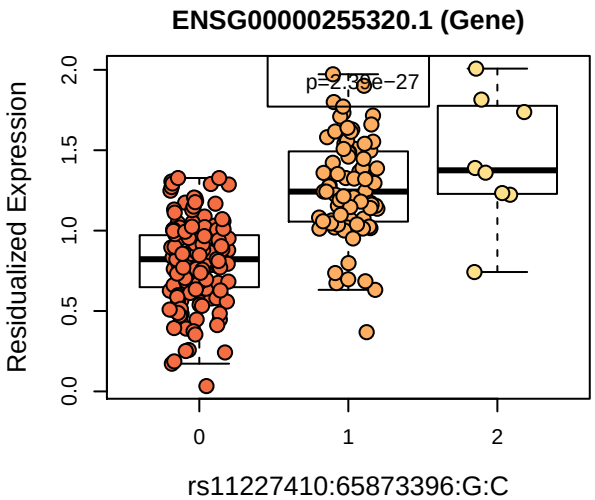
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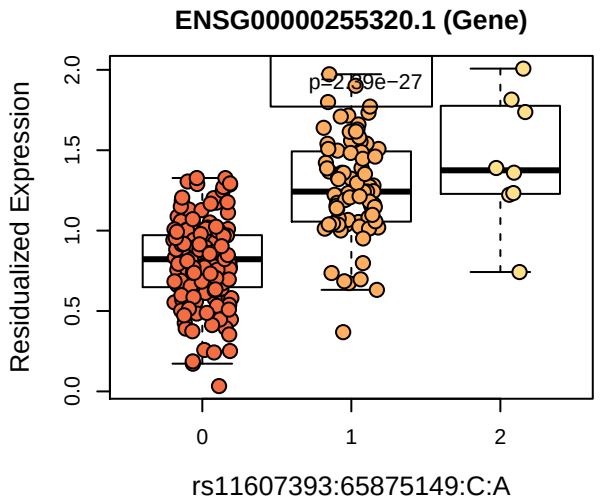
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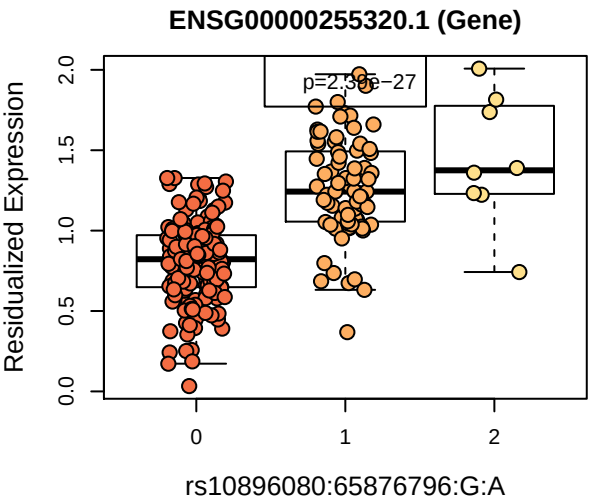
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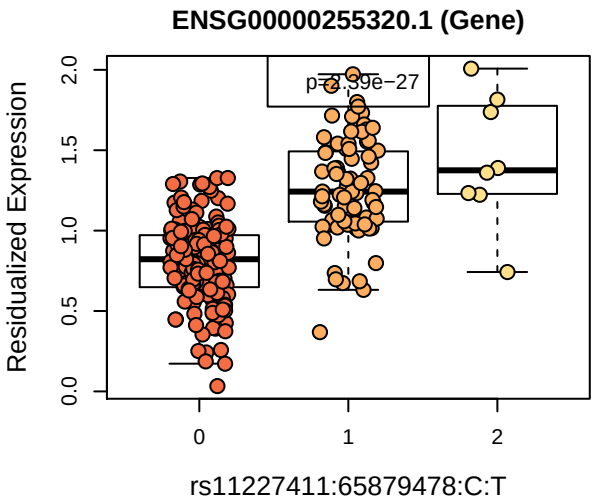
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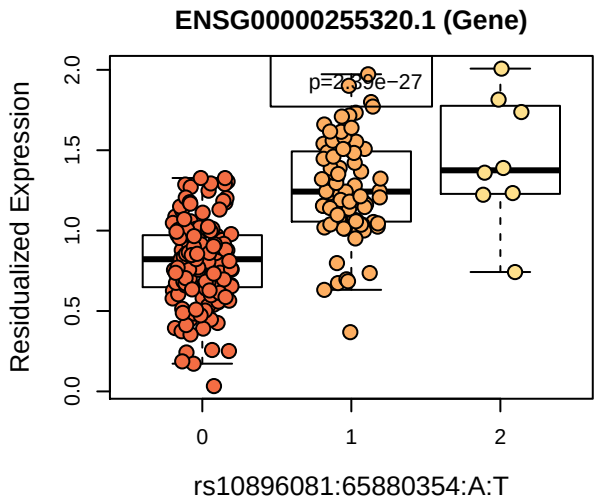
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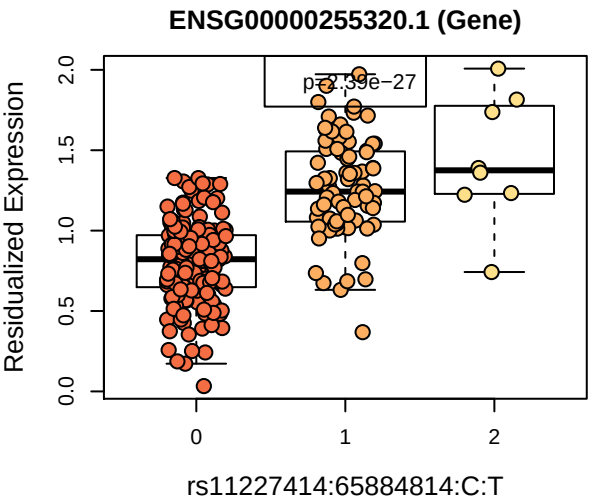
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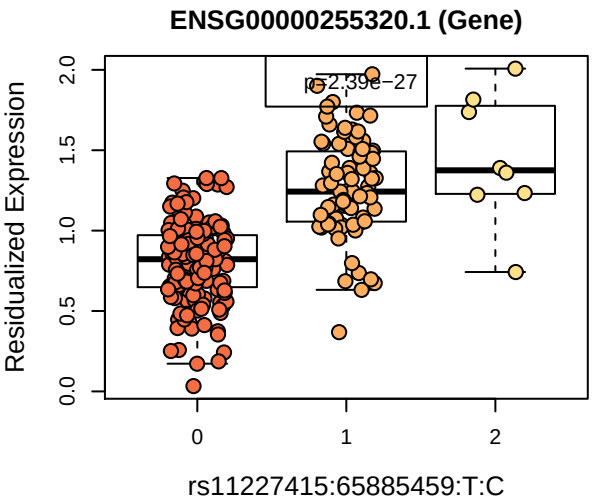
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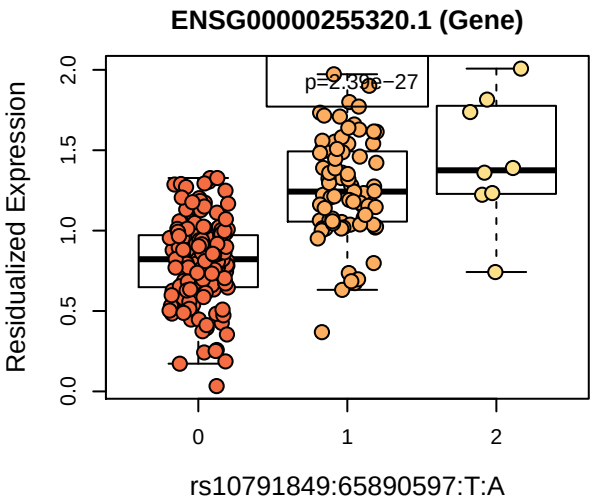
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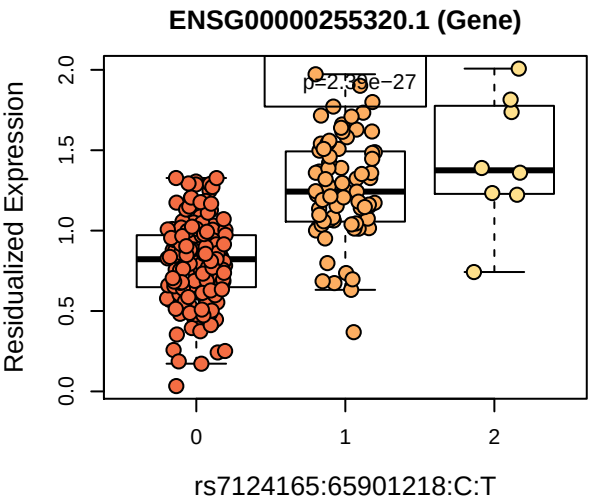
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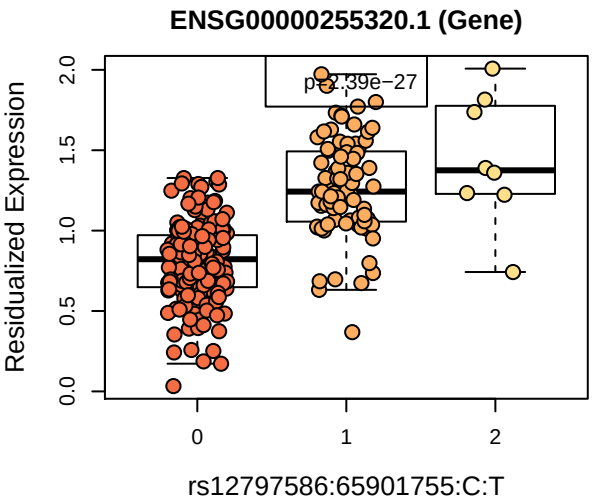
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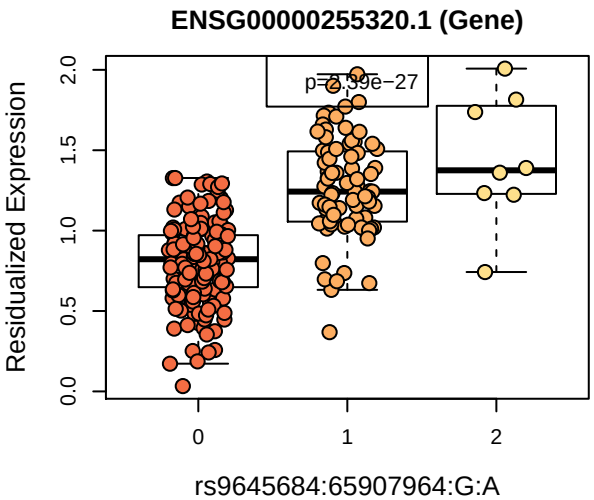
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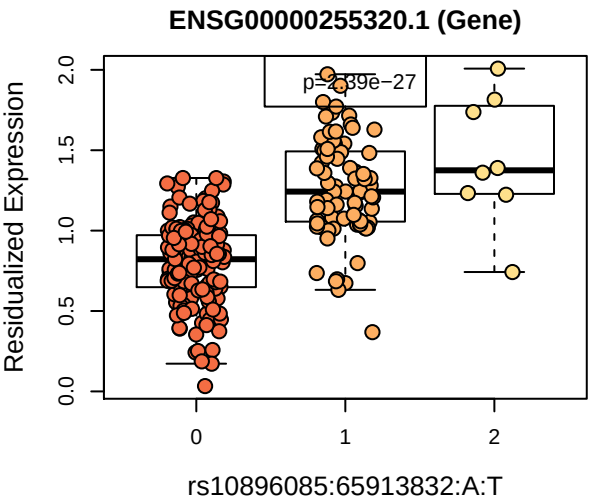
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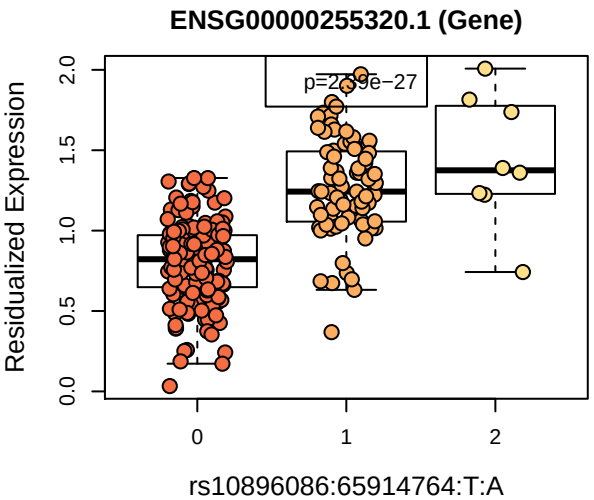
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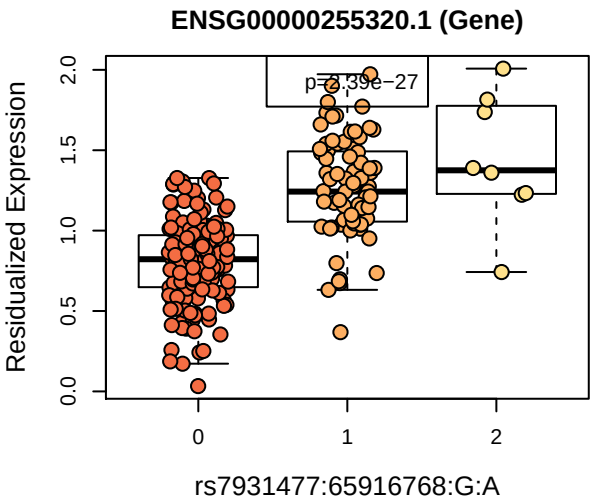
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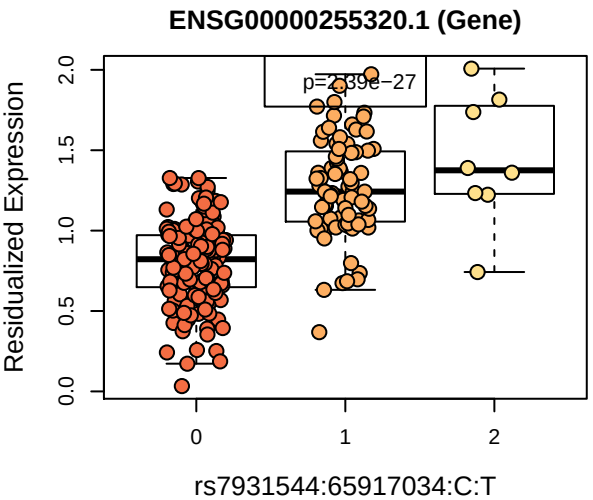
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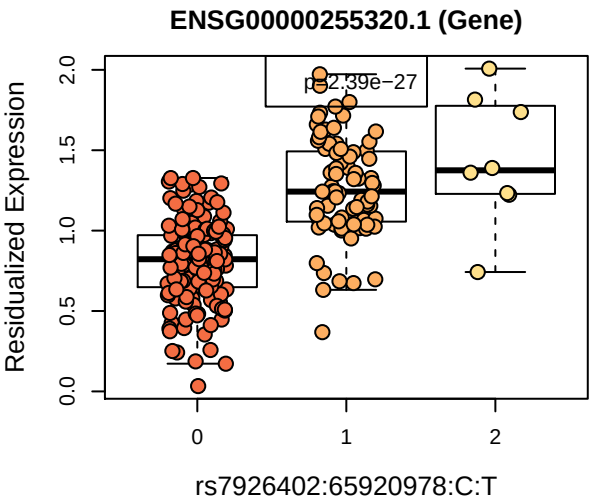
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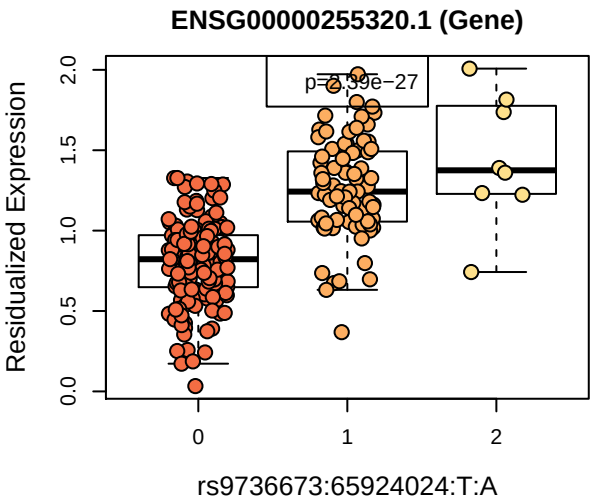
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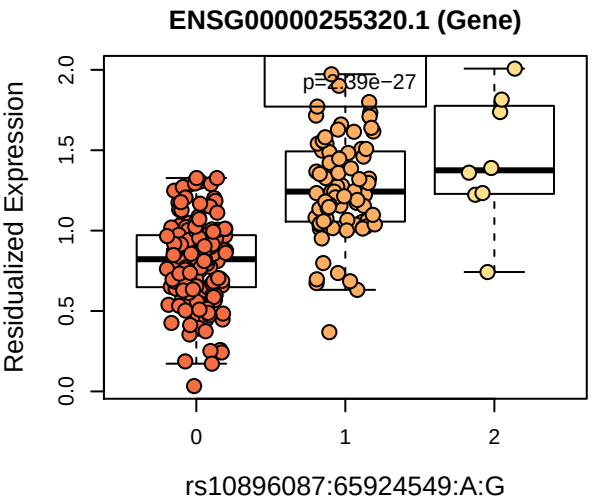
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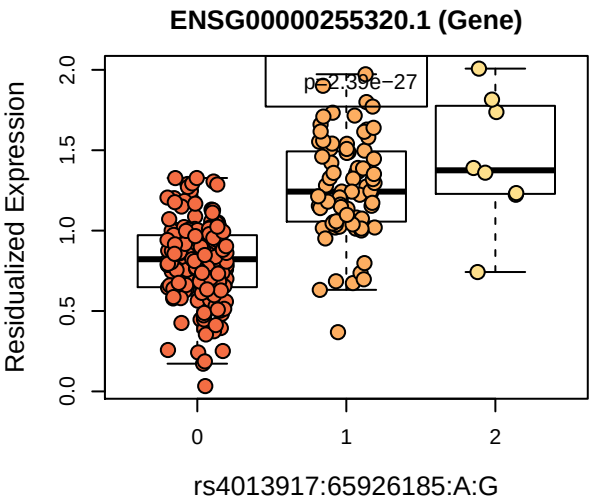
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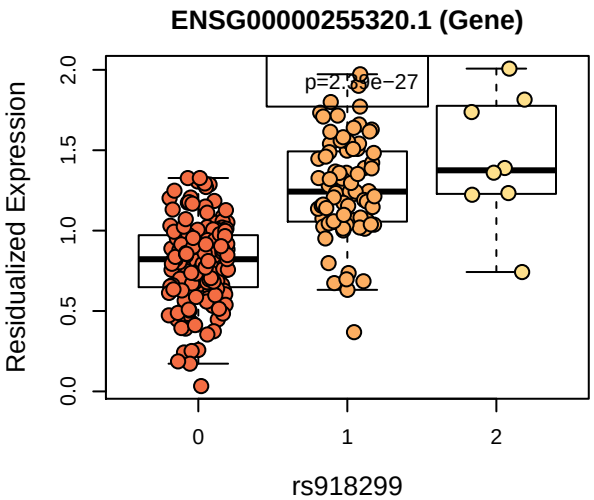
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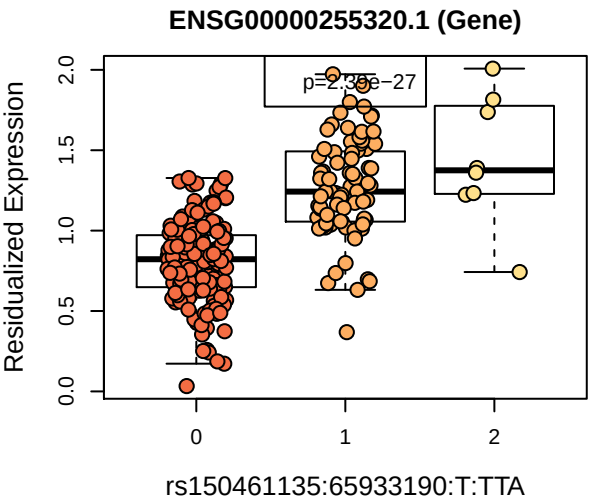
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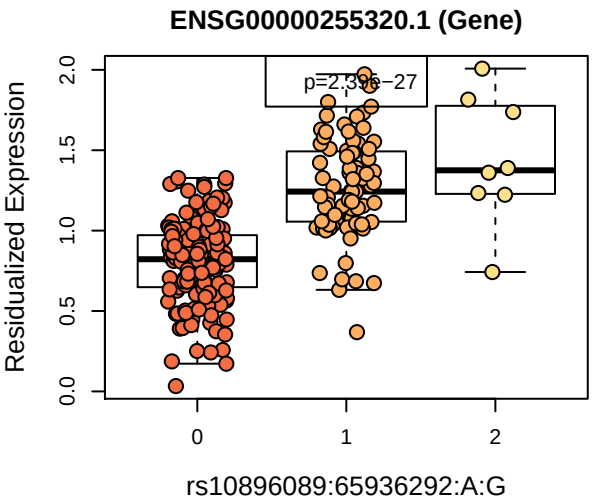
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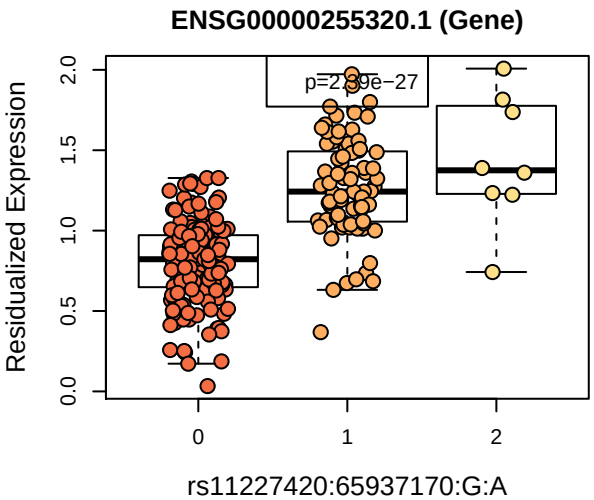
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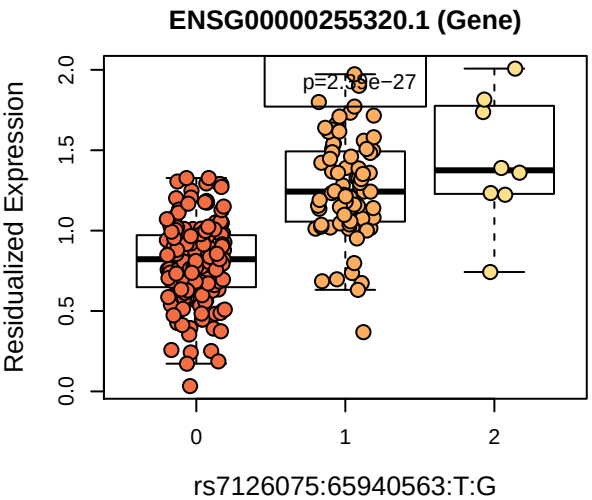
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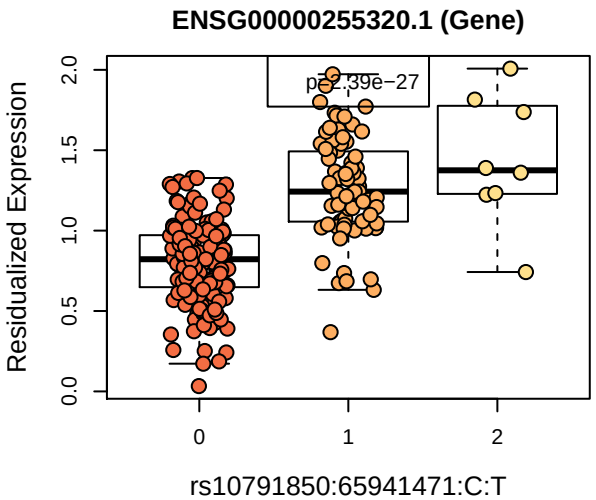
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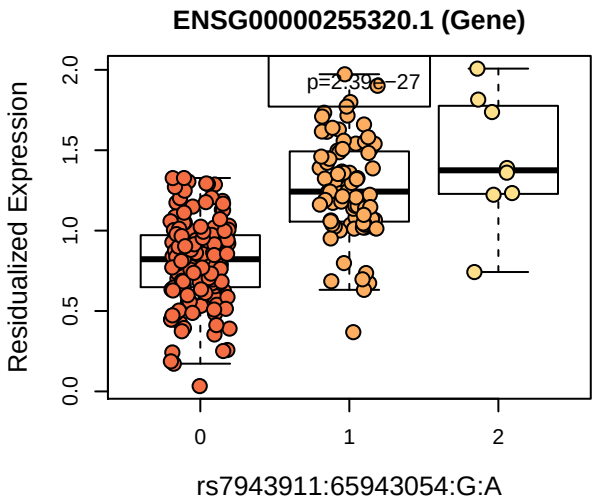
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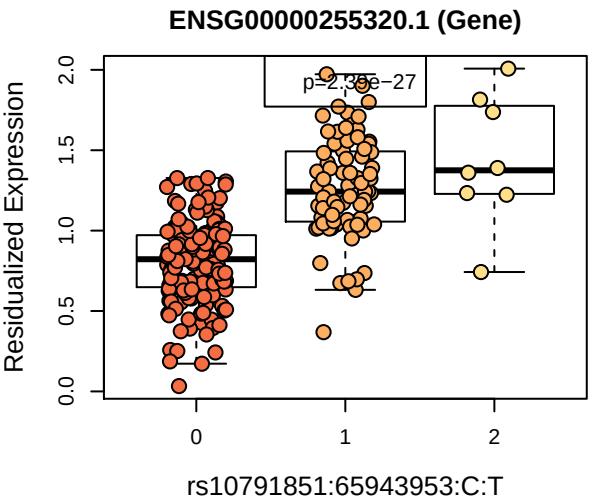
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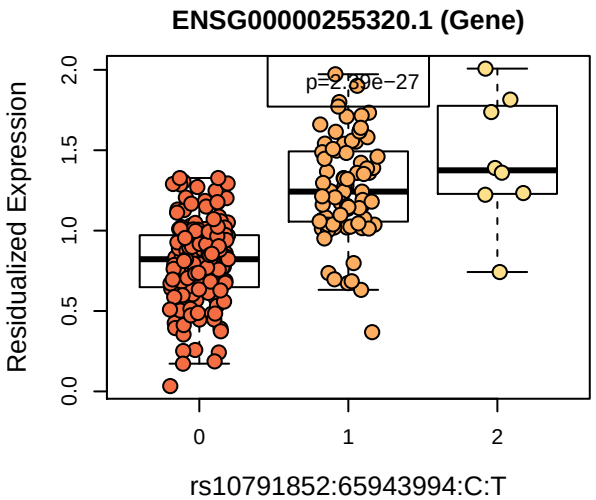
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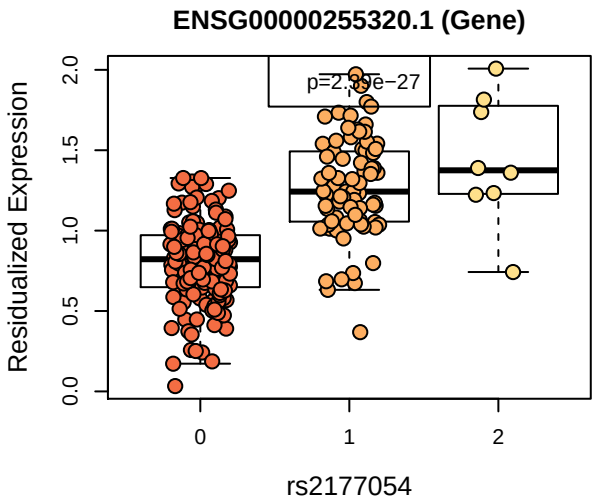
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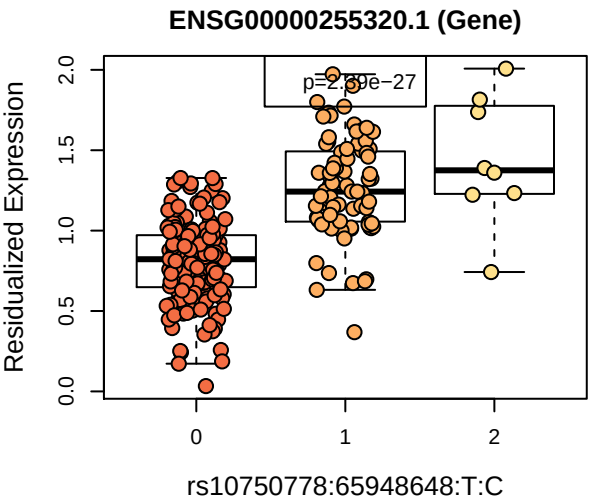
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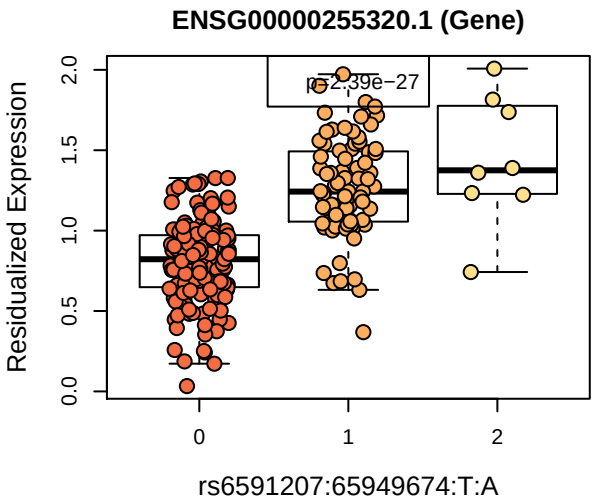
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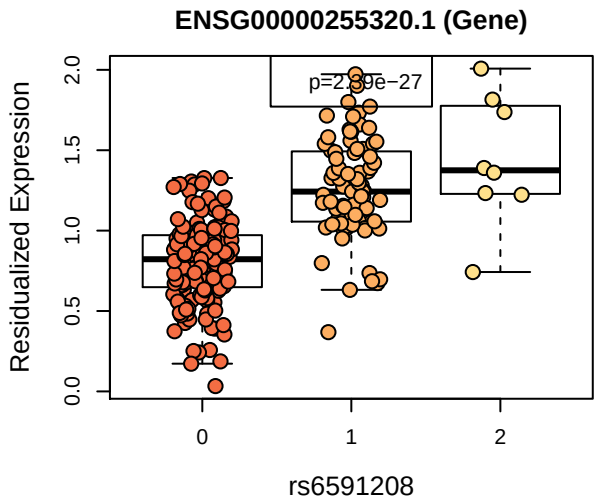
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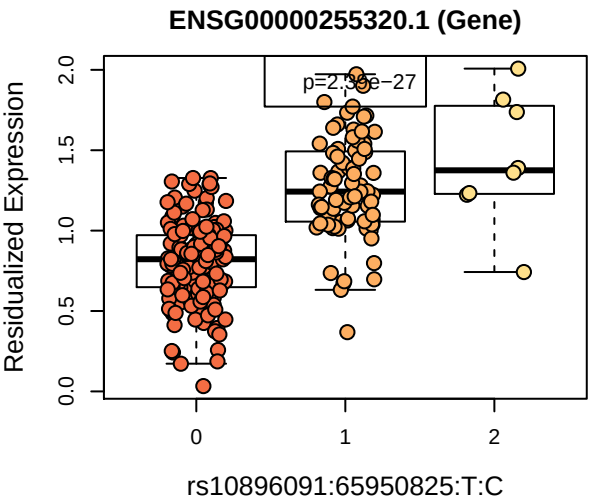
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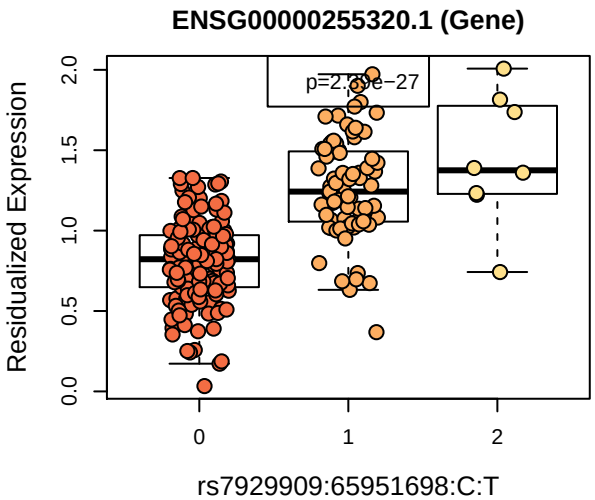
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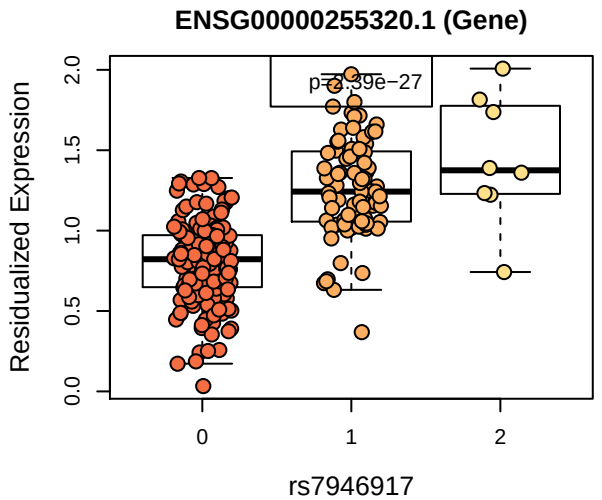
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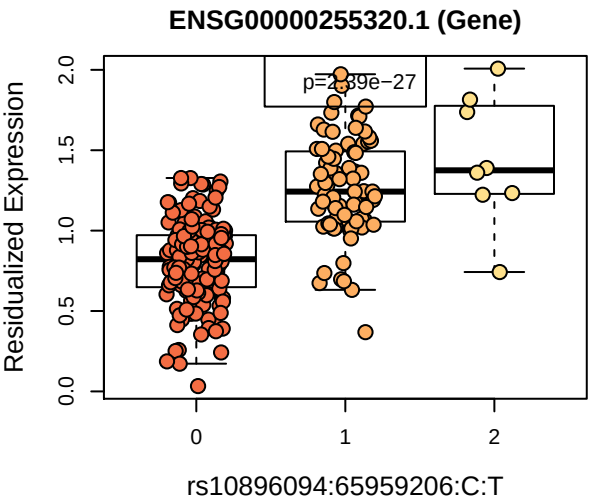
ENSG00000255320.1 (Gene)
Residualized Expression
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1.5
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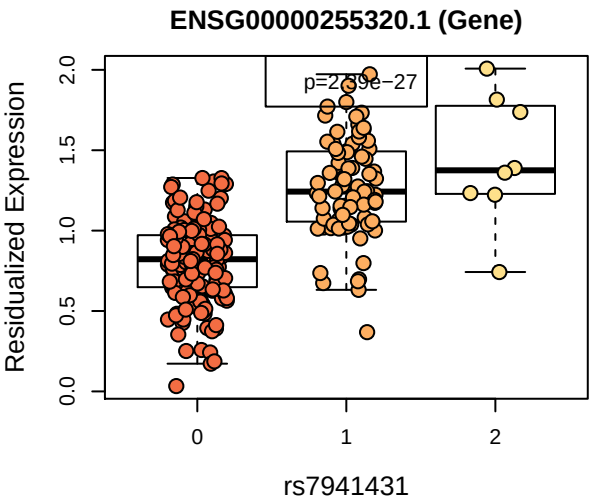
ENSG00000255320.1 (Gene)
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1.5
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1
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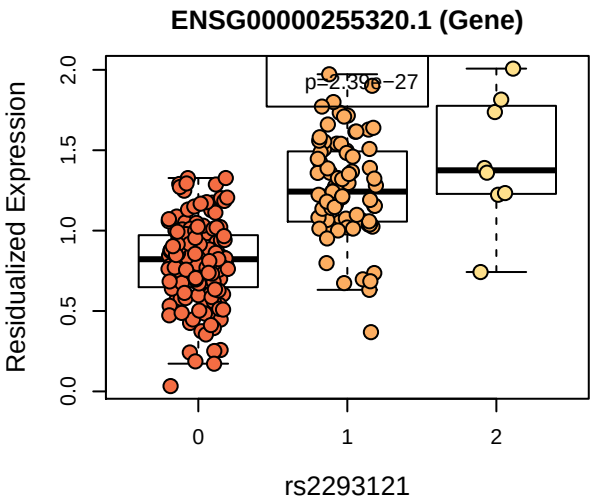
rs7941431


ENSG00000255320.1 (Gene)
Residualized Expression
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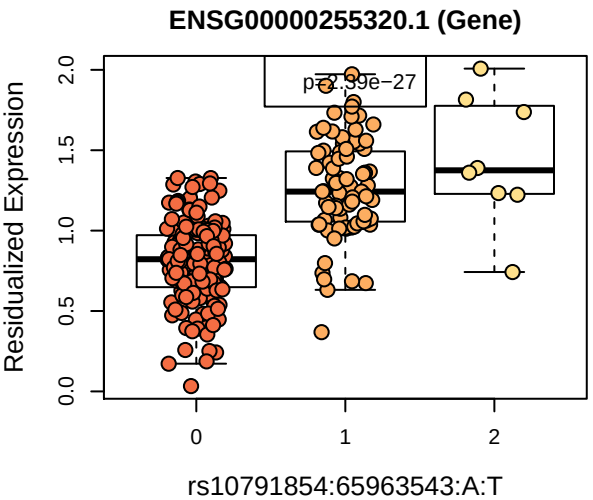
ENSG00000255320.1 (Gene)
Residualized Expression
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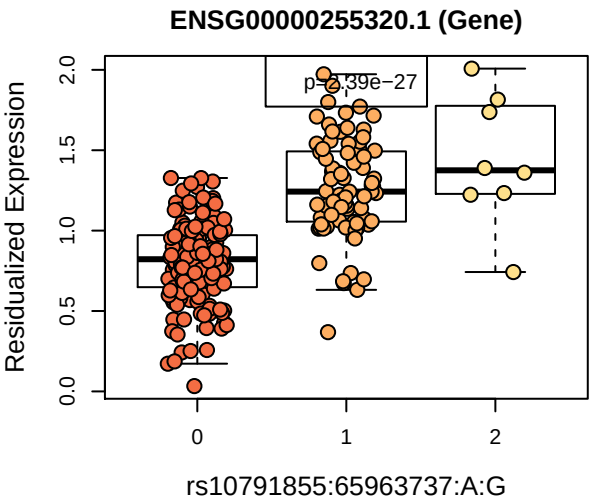
ENSG00000255320.1 (Gene)
Residualized Expression
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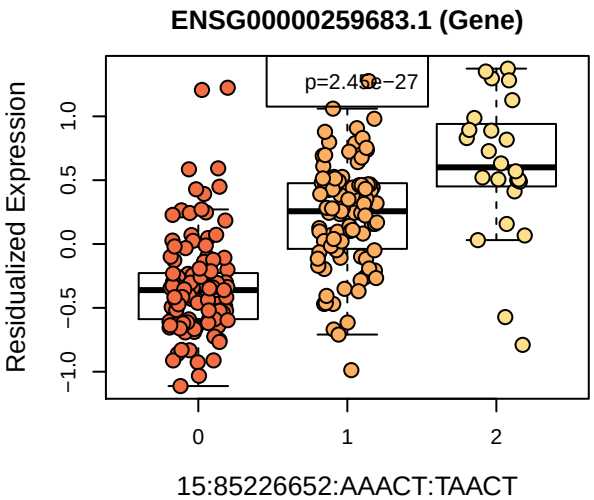
ENSG00000259683.1 (Gene)
Residualized Expression
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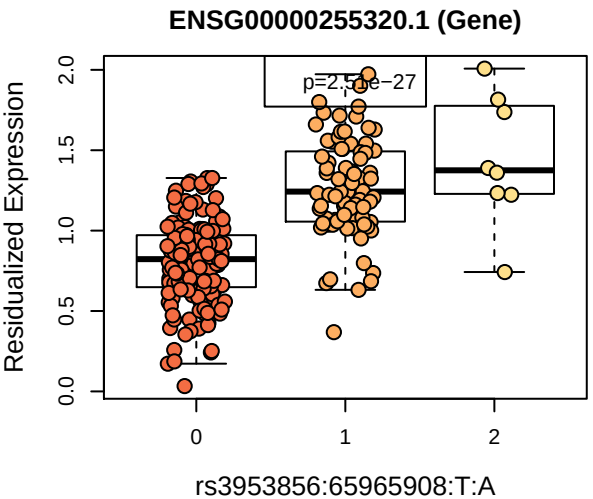
ENSG00000255320.1 (Gene)
Residualized Expression
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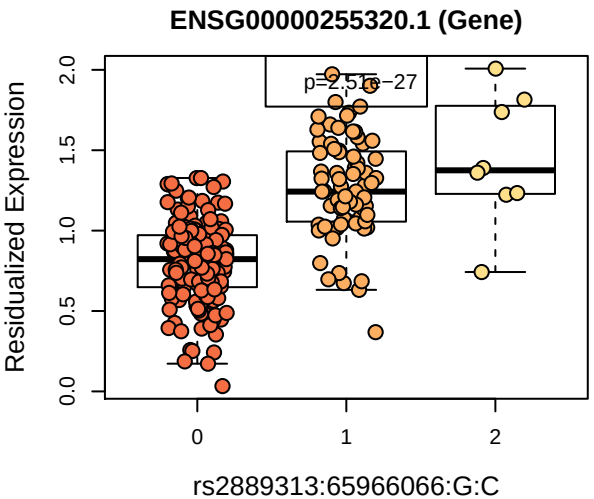
ENSG00000255320.1 (Gene)
Residualized Expression
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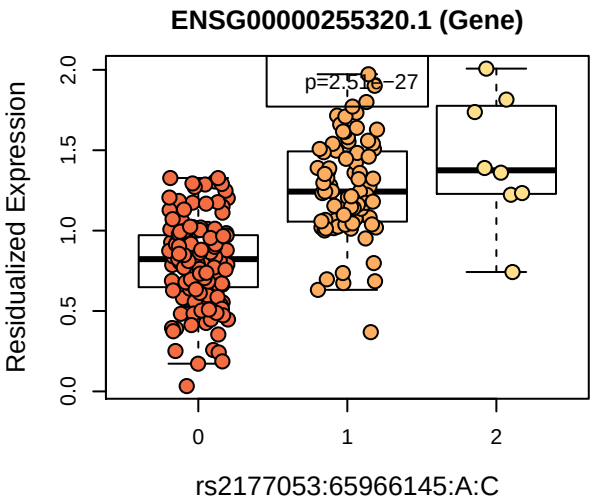
ENSG00000255320.1 (Gene)
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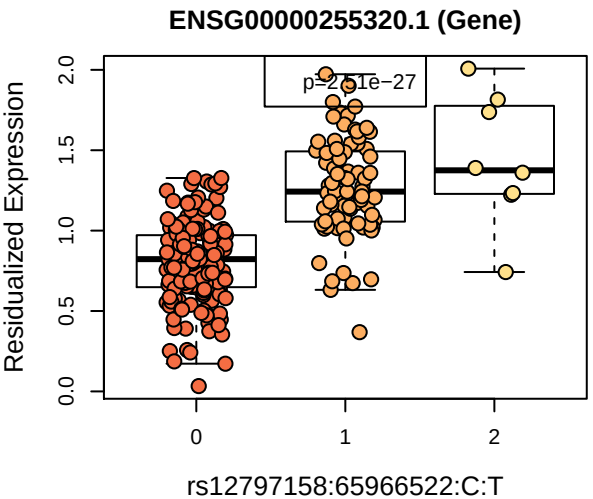
ENSG00000255320.1 (Gene)
Residualized Expression
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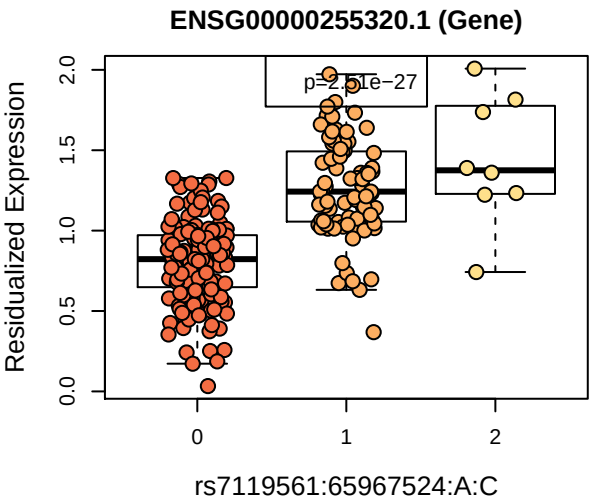
ENSG00000255320.1 (Gene)
Residualized Expression
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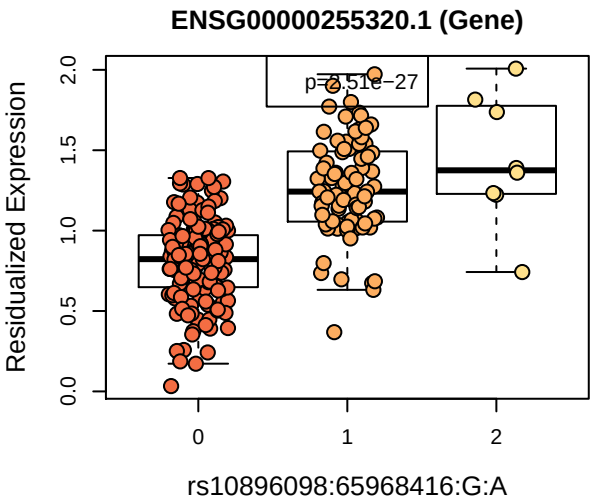
ENSG00000255320.1 (Gene)
Residualized Expression
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2.0
0
1
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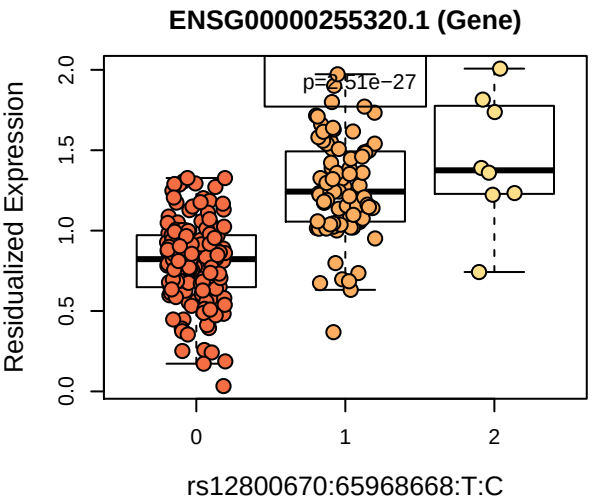
ENSG00000255320.1 (Gene)
Residualized Expression
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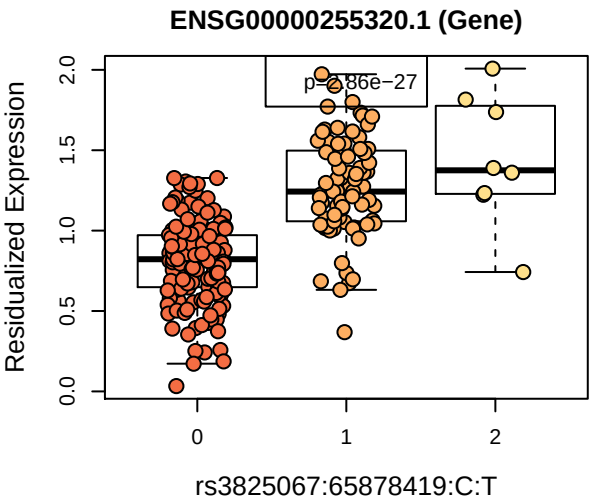
ENSG00000255320.1 (Gene)
Residualized Expression
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1
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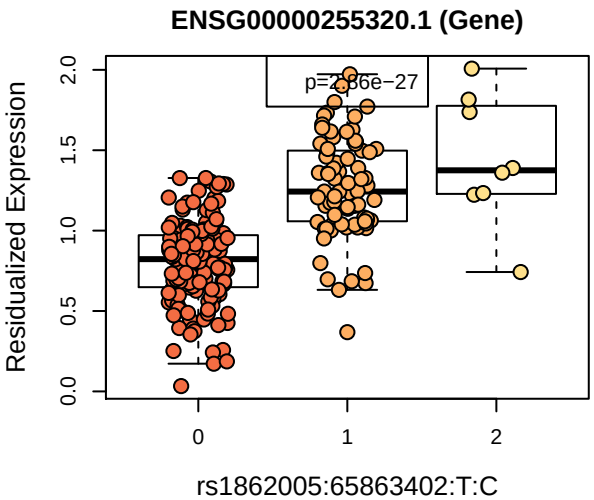
ENSG00000255320.1 (Gene)
Residualized Expression
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1.5
2.0
0
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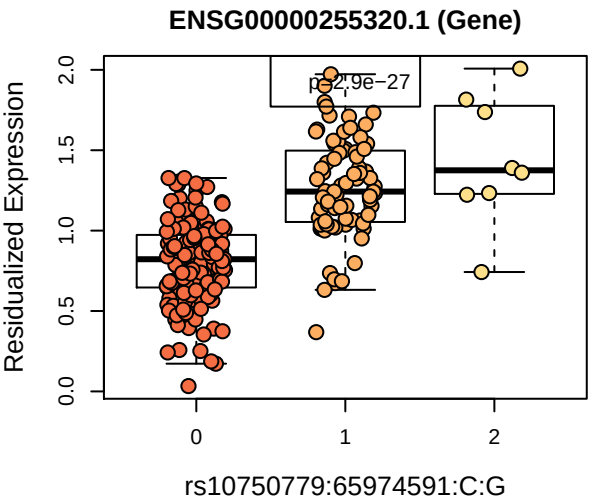
ENSG00000255320.1 (Gene)
Residualized Expression
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1.5
2.0
0
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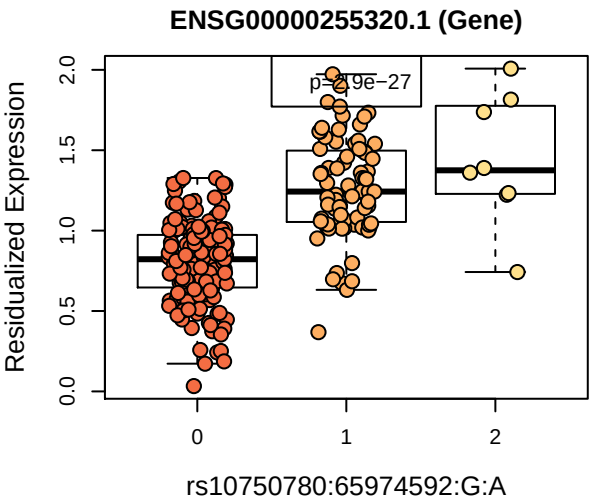
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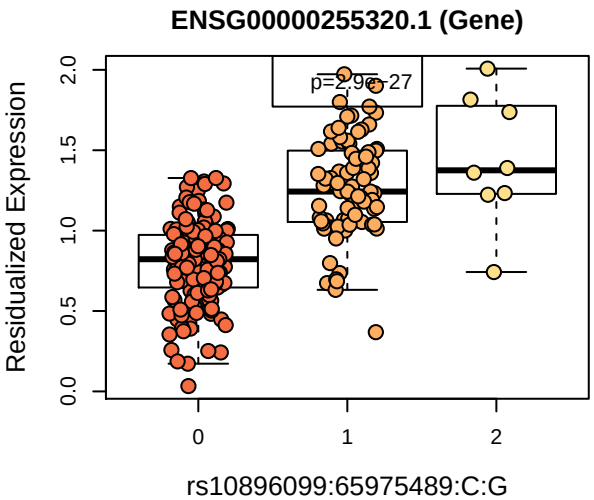
ENSG00000255320.1 (Gene)
Residualized Expression
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1.5
2.0
0
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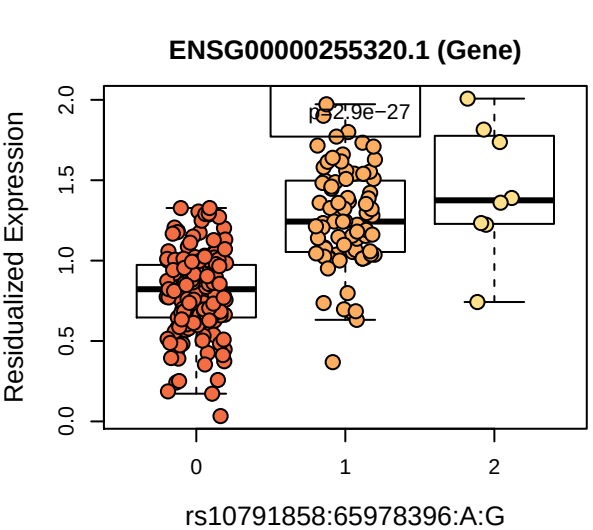
ENSG00000255320.1 (Gene)
p=2.9e−27
Residualized Expression
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1.5
2.0
0
1
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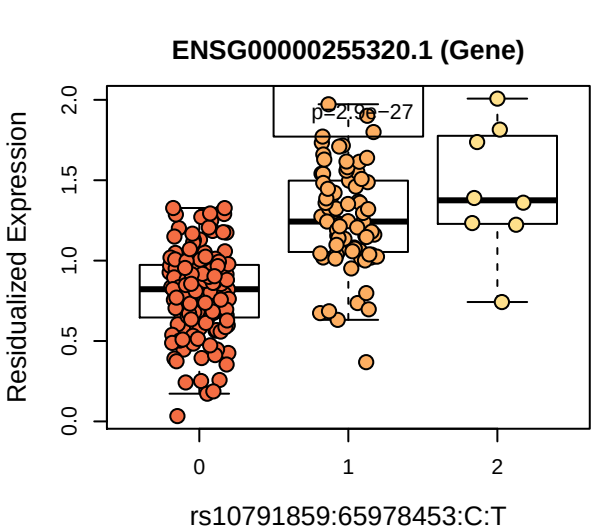
ENSG00000255320.1 (Gene)
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Residualized Expression
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1.0
1.5
2.0
0
1
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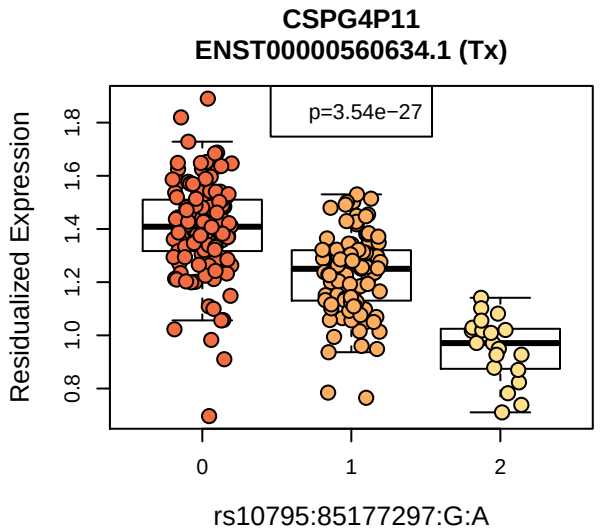
CSPG4P11
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p=3.54e−27
Residualized Expression
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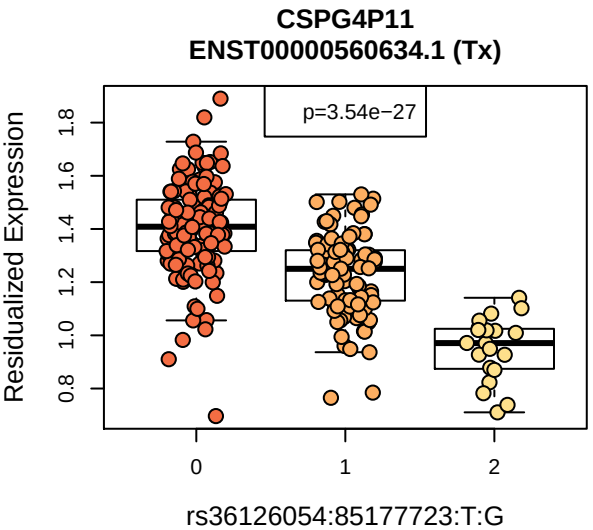
1.2
1.4
1.6
1.8
0
1
2
rs10795:85177297:G:A


CSPG4P11
ENST00000560634.1 (Tx)
p=3.54e−27
Residualized Expression
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1.0
1.2
1.4
1.6
1.8
0
1
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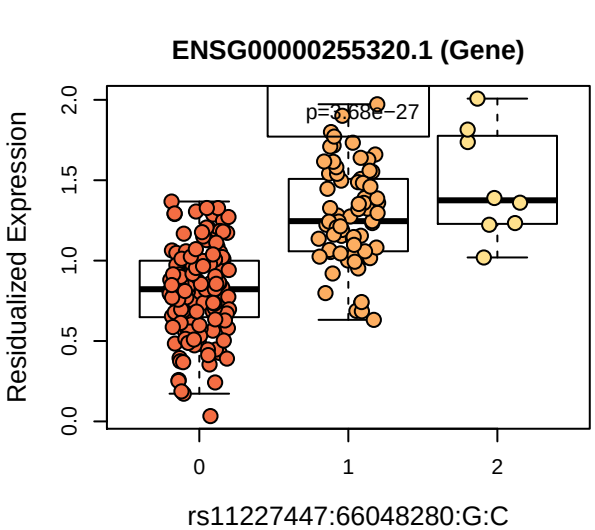
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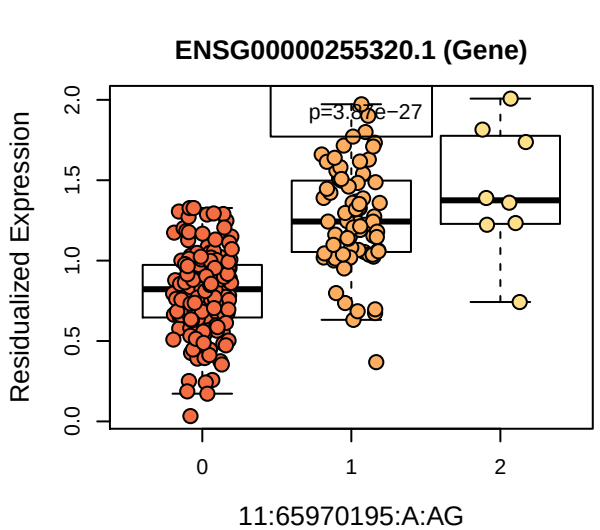
ENSG00000255320.1 (Gene)
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Residualized Expression
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1.5
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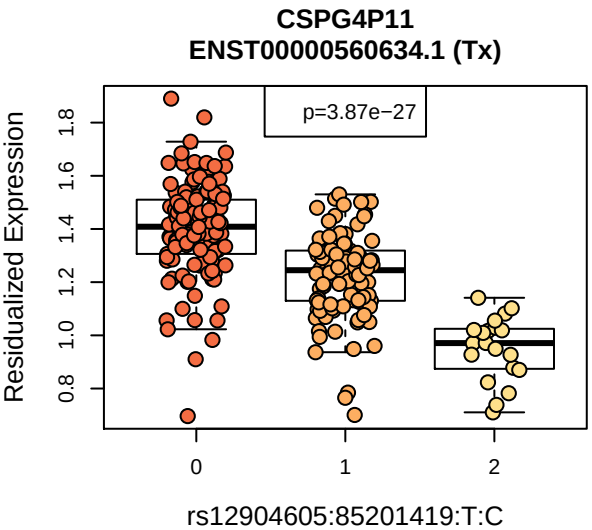
CSPG4P11
ENST00000560634.1 (Tx)
p=3.87e−27
Residualized Expression
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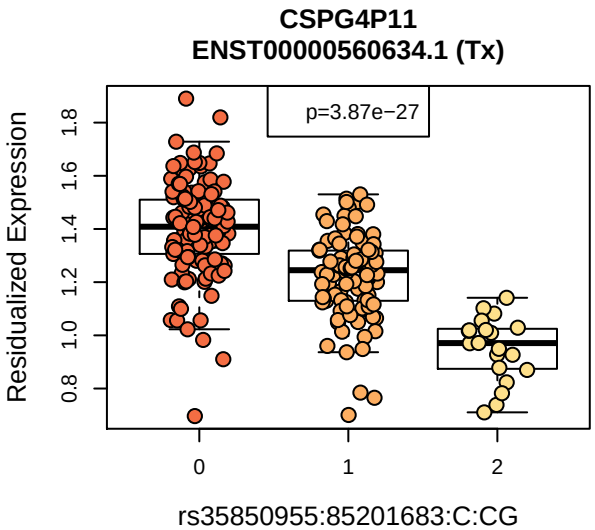
1.0
1.2
1.4
1.6
1.8
0
1
2
rs12904605:85201419:T:C


CSPG4P11
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Residualized Expression
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1.6
1.8
0
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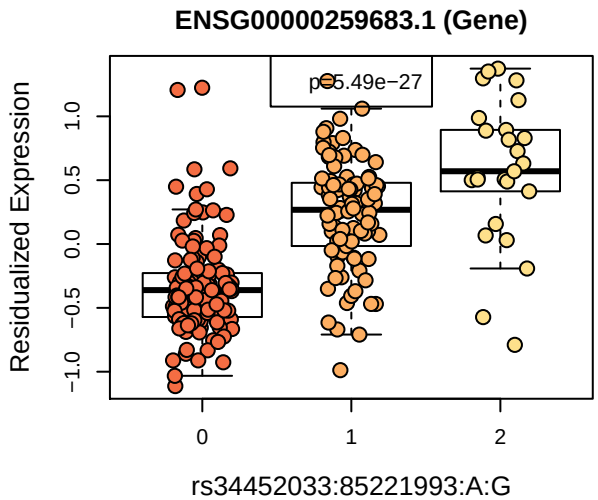
ENSG00000259683.1 (Gene)
p=5.49e−27
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0.5
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0
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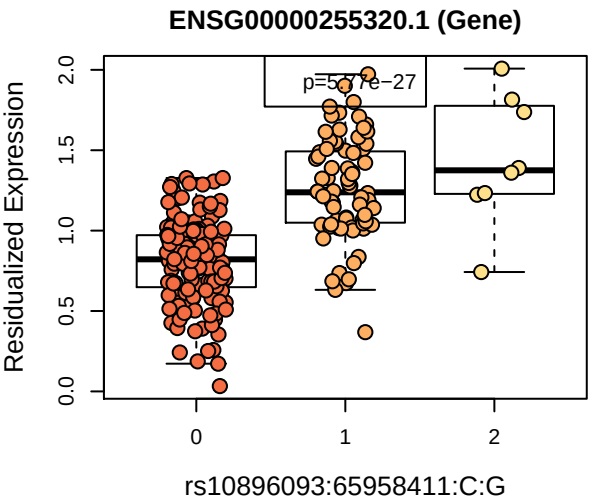
ENSG00000255320.1 (Gene)
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Residualized Expression
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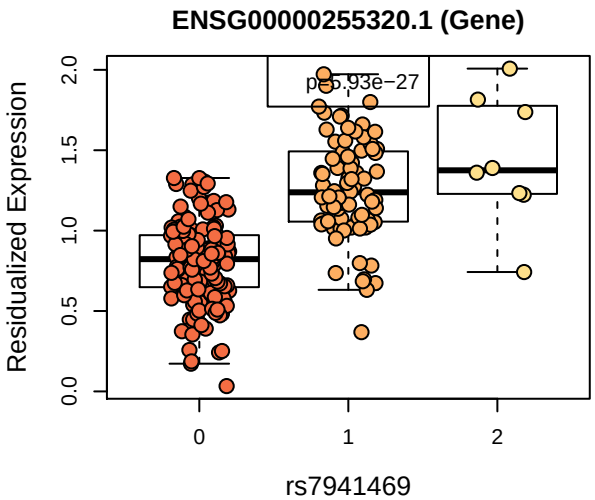
ENSG00000255320.1 (Gene)
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Residualized Expression
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1
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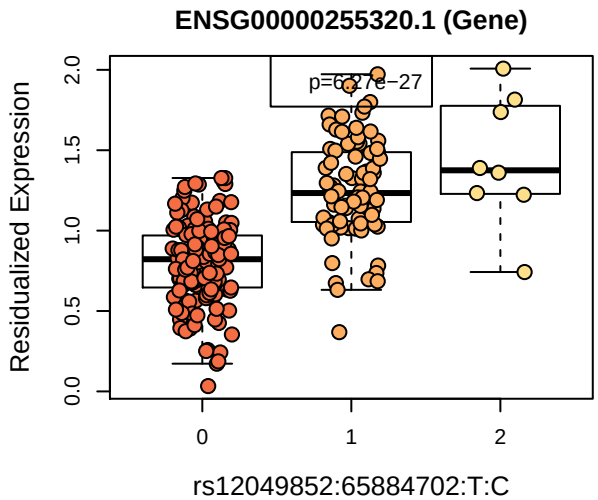
rs7941469


ENSG00000255320.1 (Gene)
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Residualized Expression
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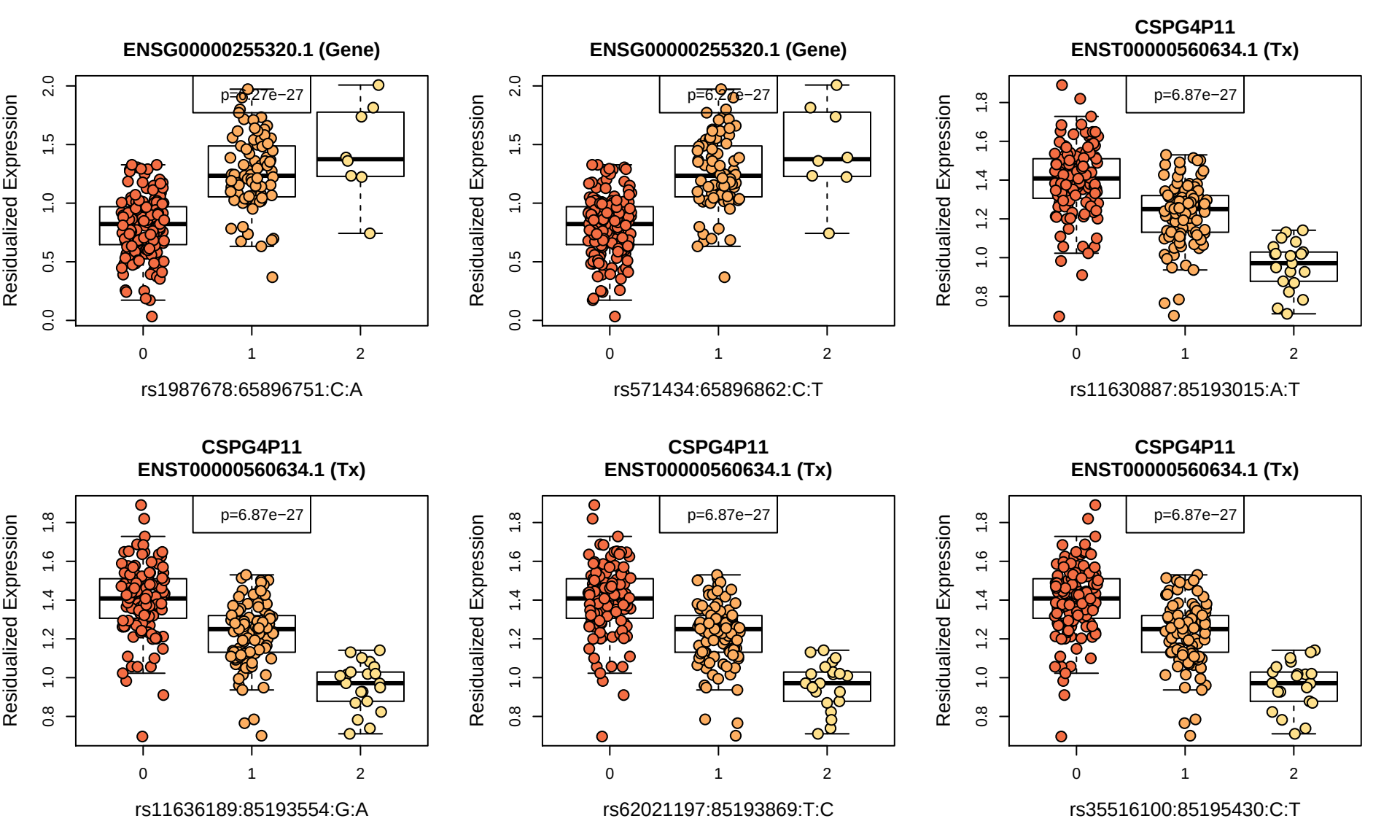
ENSG00000255320.1 (Gene)
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Residualized Expression
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1.5
2.0
0
1
2
rs1987678:65896751:C:A
ENSG00000255320.1 (Gene)
p=6.27e−27
Residualized Expression
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1.0
1.5
2.0
0
1
2
rs571434:65896862:C:T
CSPG4P11
ENST00000560634.1 (Tx)
p=6.87e−27
Residualized Expression
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1.0
1.2
1.4
1.6
1.8
0
1
2
rs11630887:85193015:A:T
CSPG4P11
ENST00000560634.1 (Tx)
p=6.87e−27
Residualized Expression
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1.0
1.2
1.4
1.6
1.8
0
1
2
rs11636189:85193554:G:A
CSPG4P11
ENST00000560634.1 (Tx)
p=6.87e−27
Residualized Expression
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1.2
1.4
1.6
1.8
0
1
2
rs62021197:85193869:T:C
CSPG4P11
ENST00000560634.1 (Tx)
p=6.87e−27
Residualized Expression
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1.6
1.8
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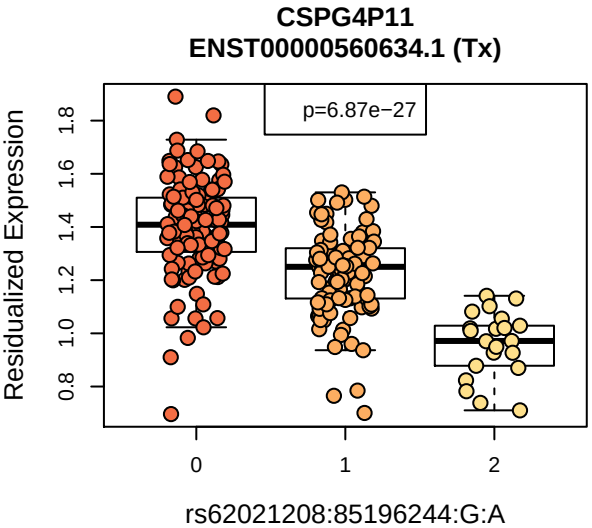
rs35516100:85195430:C:T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Residualized Expression
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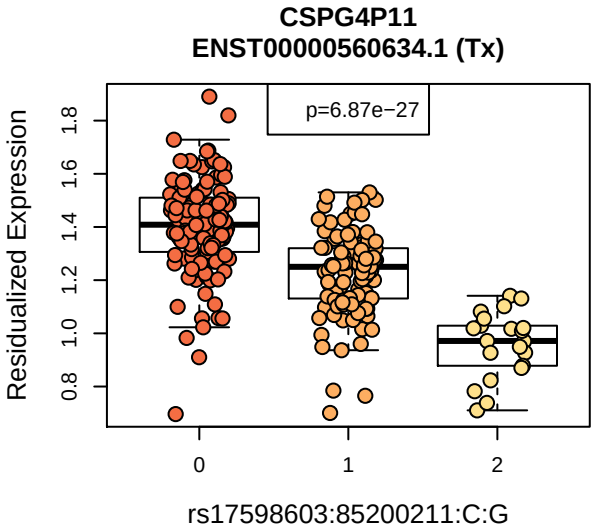
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ENST00000560634.1 (Tx)
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Residualized Expression
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1.2
1.4
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0
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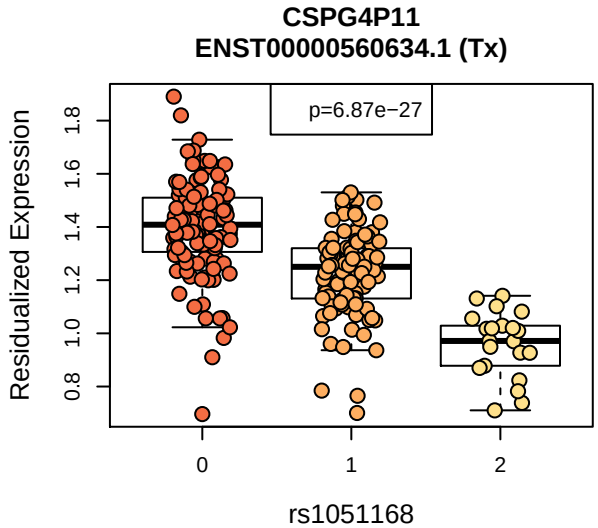
CSPG4P11
ENST00000560634.1 (Tx)
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Residualized Expression
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1.4
1.6
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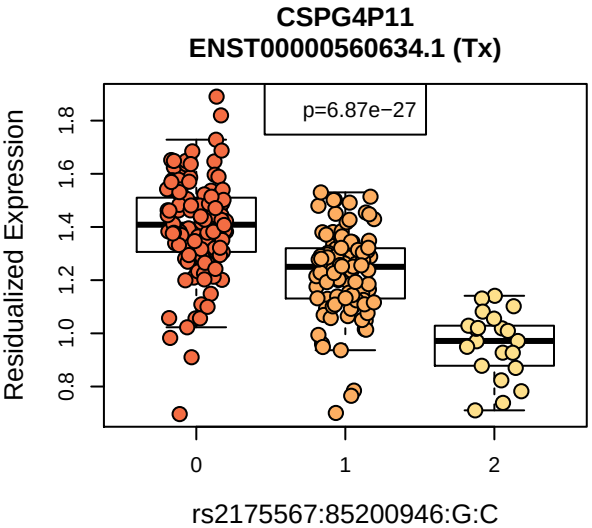
rs1051168


CSPG4P11
ENST00000560634.1 (Tx)
p=6.87e−27
Residualized Expression
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1.2
1.4
1.6
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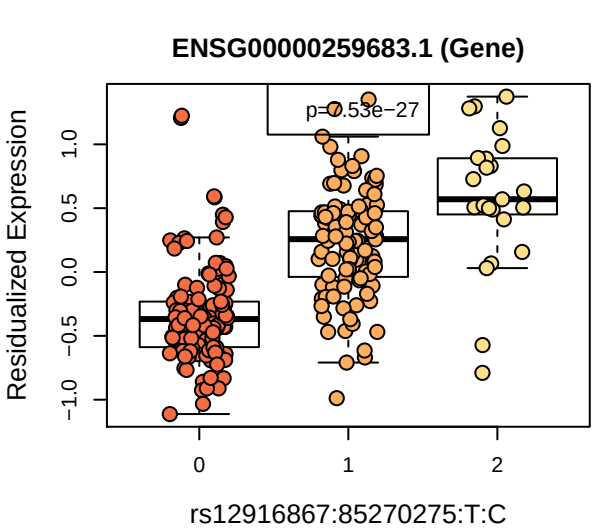
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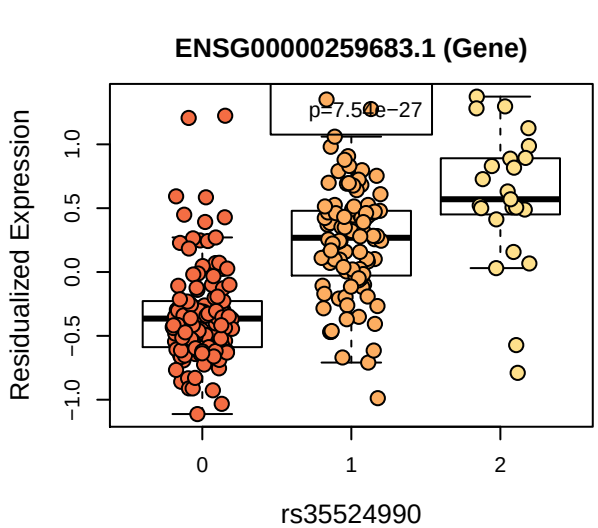
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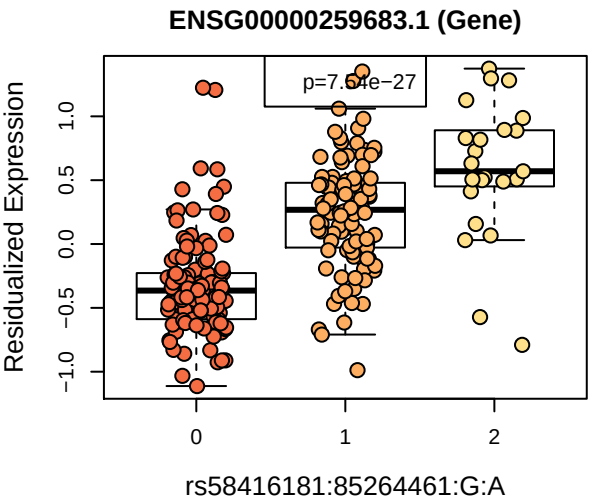
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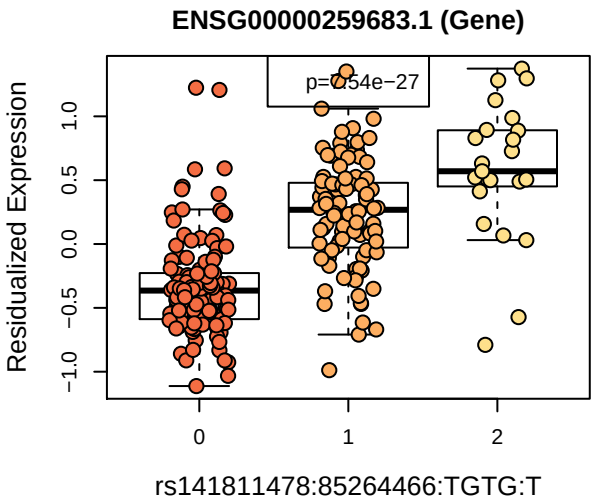
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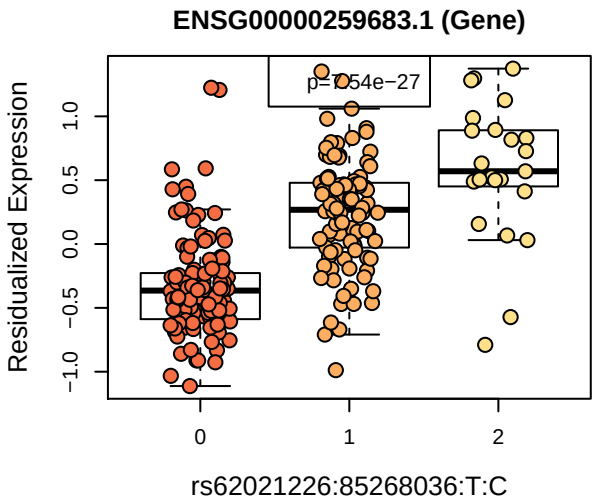
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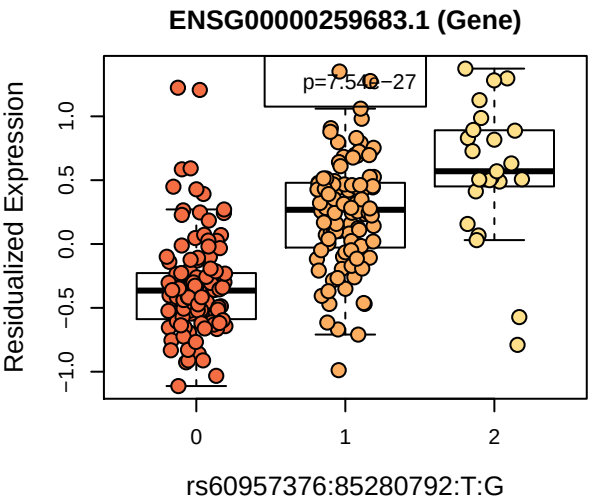
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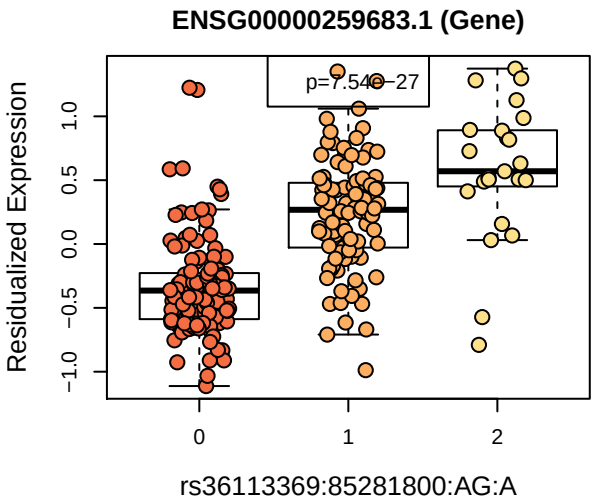
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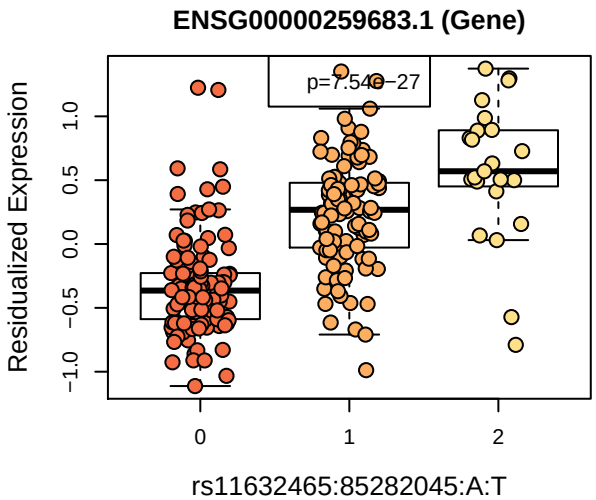
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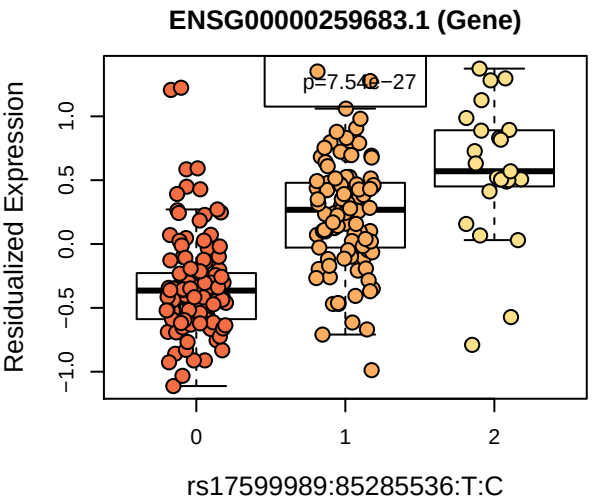
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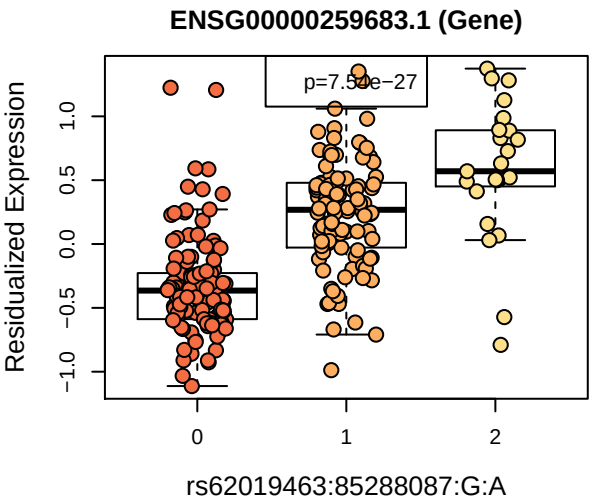
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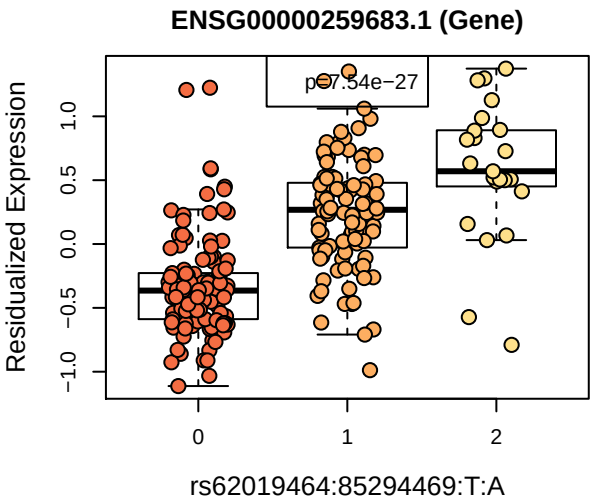
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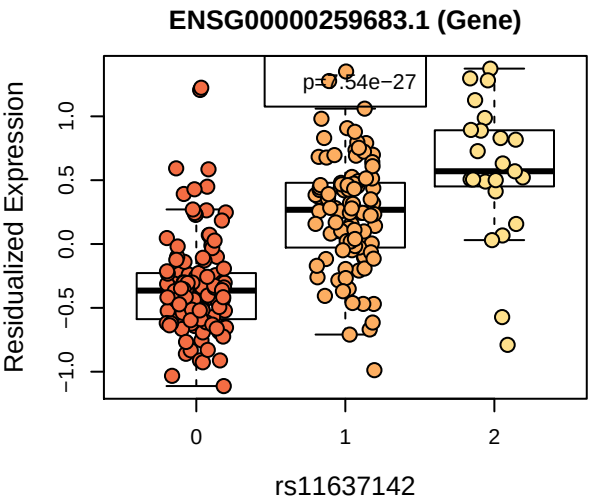
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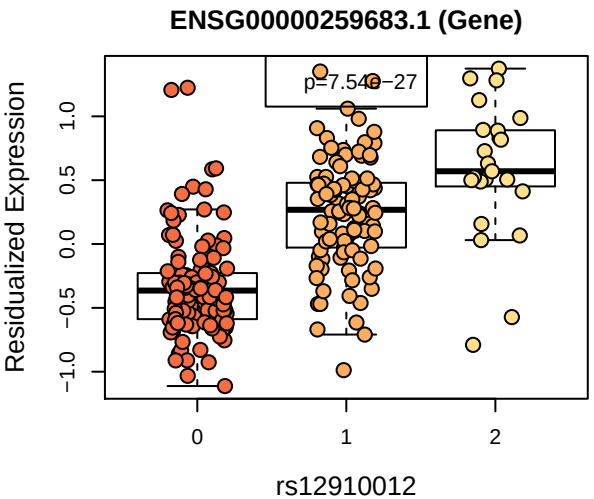
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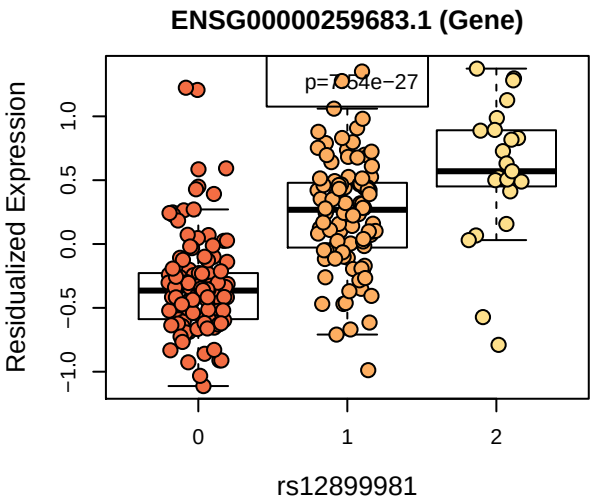
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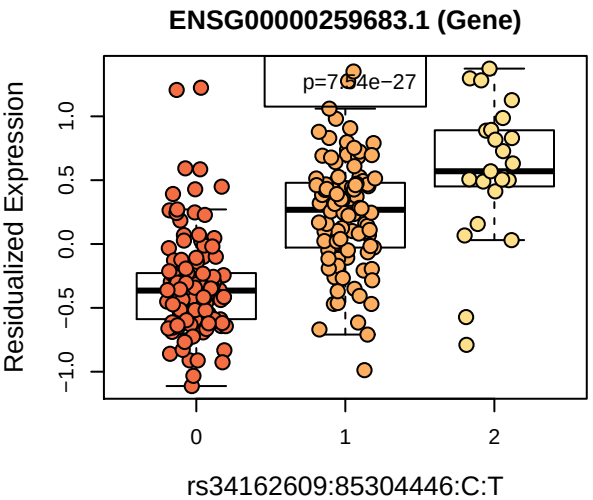
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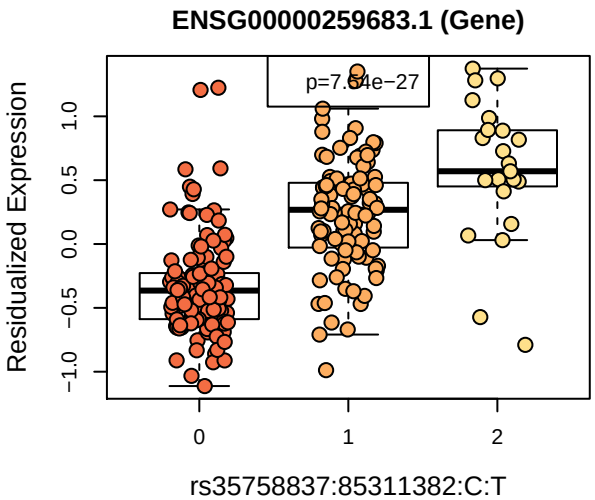
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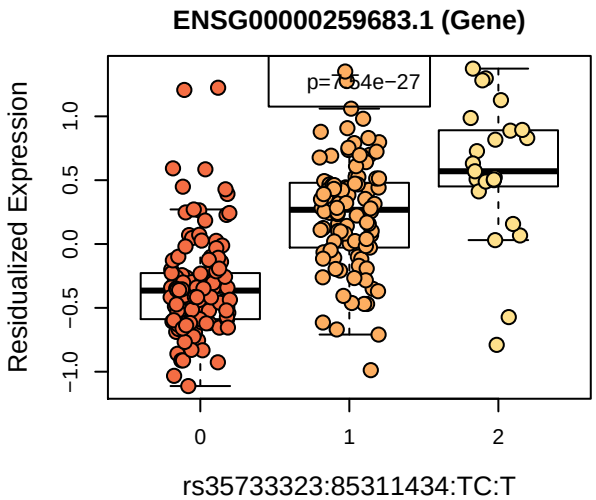
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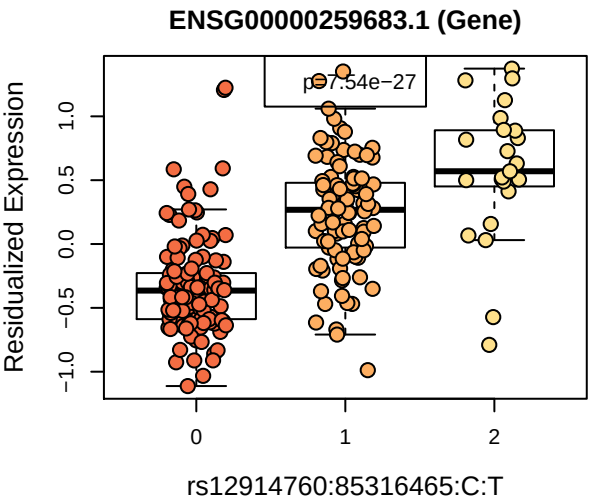
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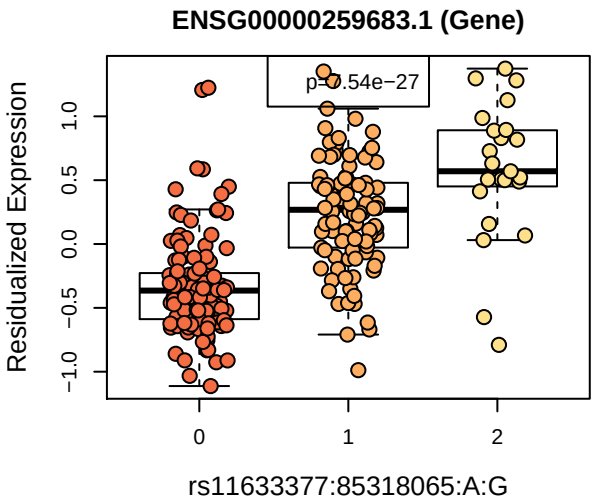
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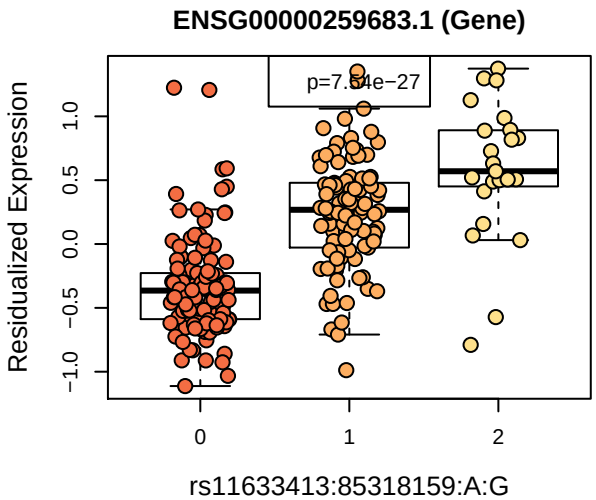
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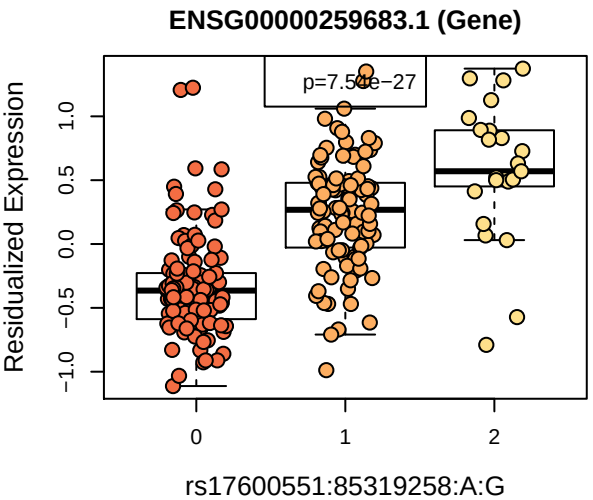
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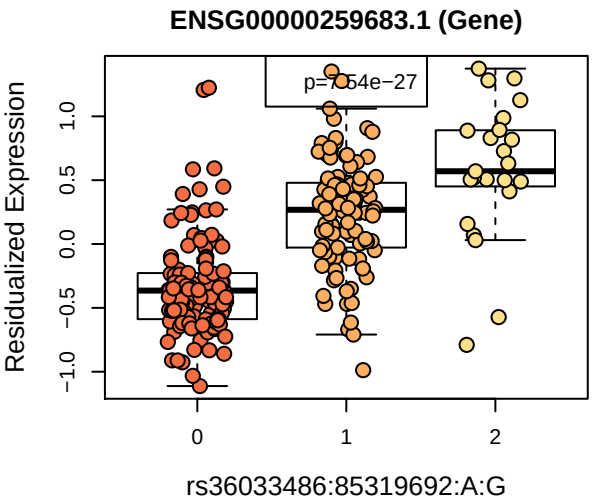
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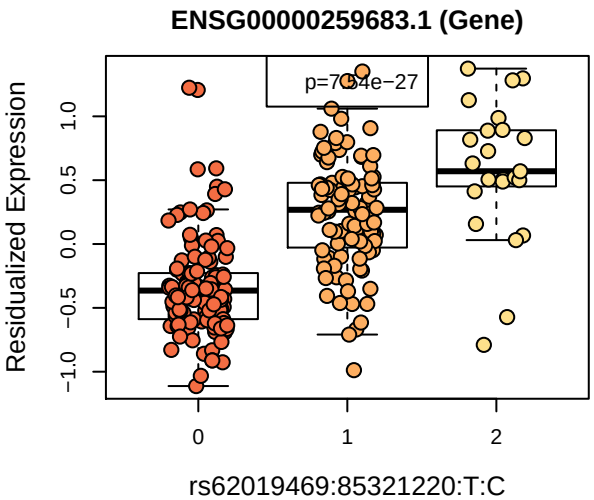
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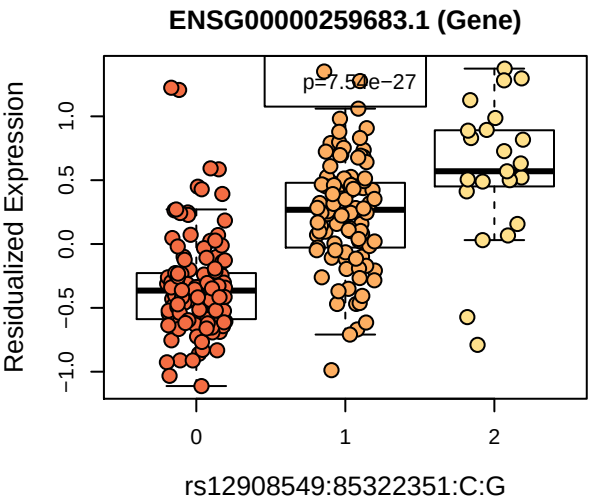
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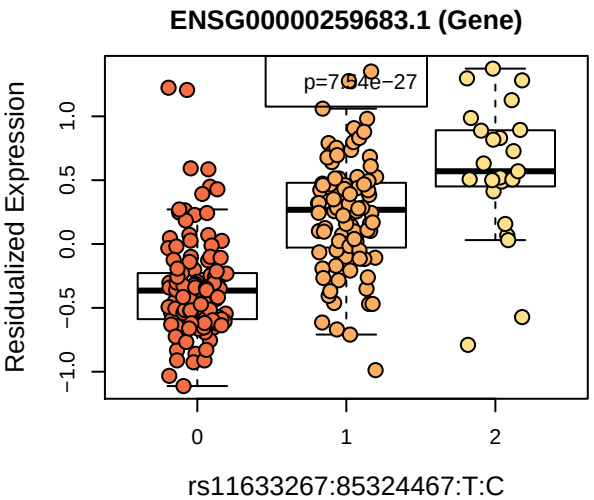
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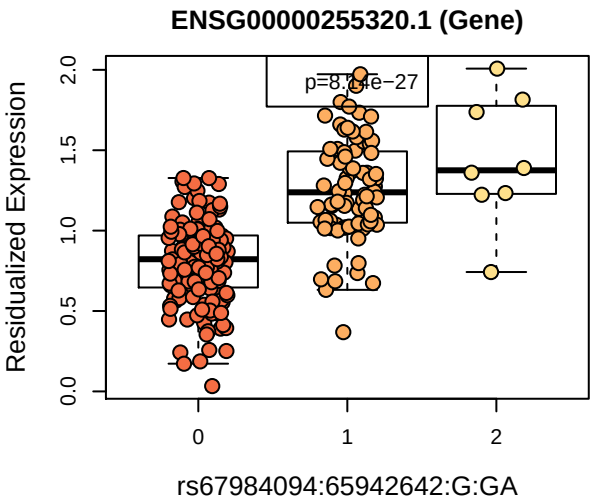
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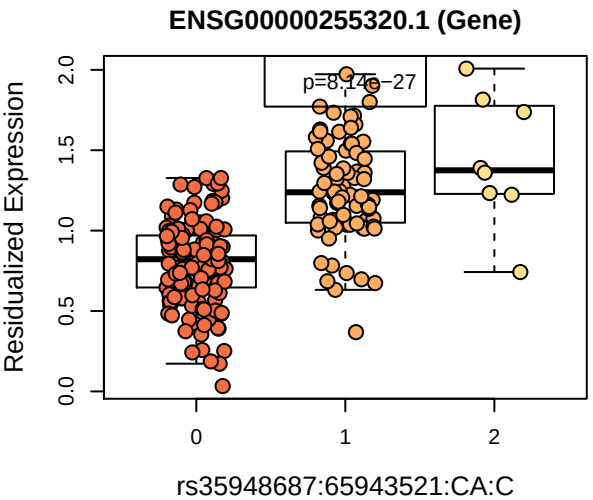
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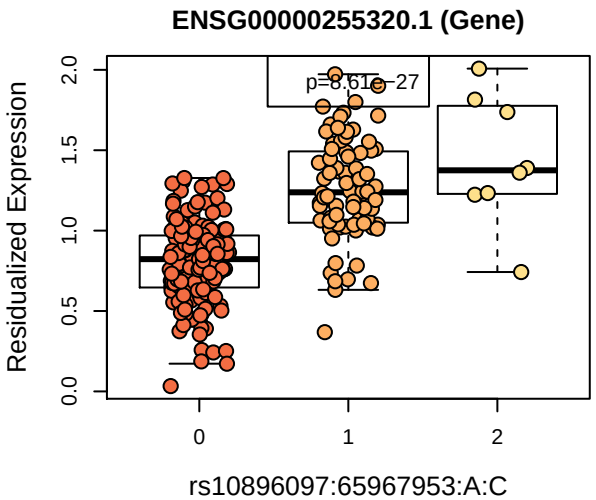
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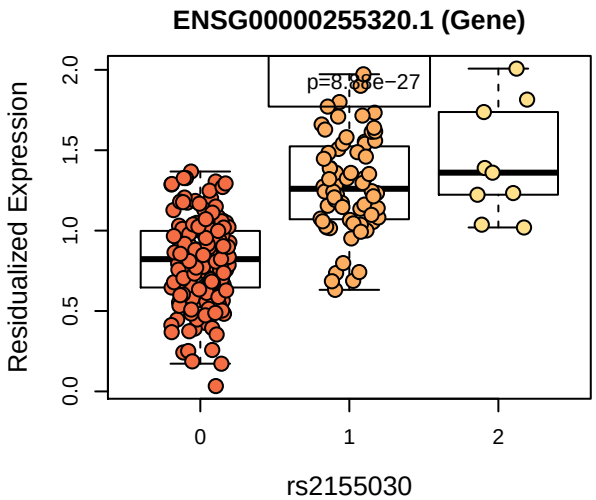
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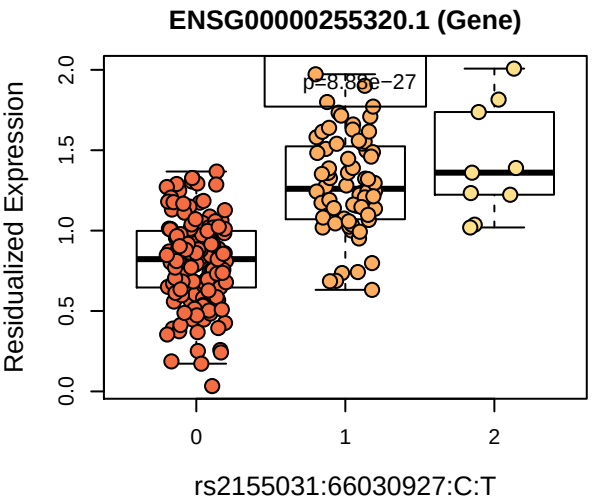
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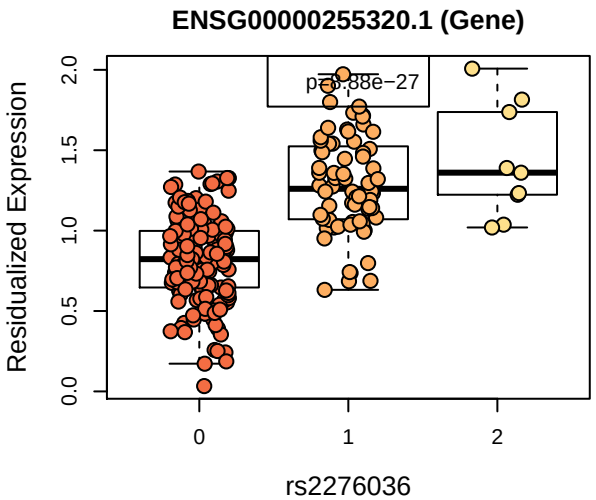
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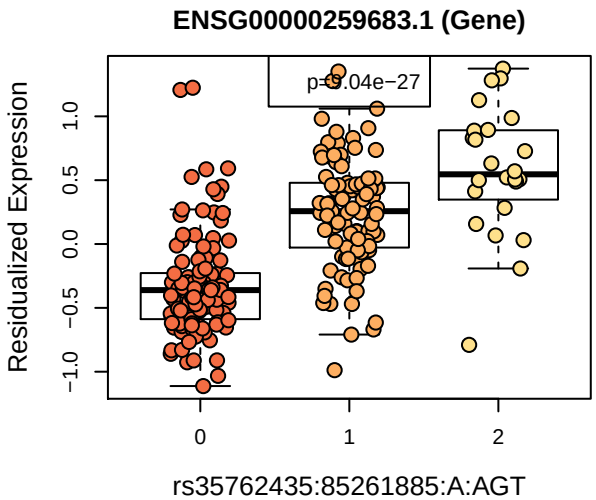
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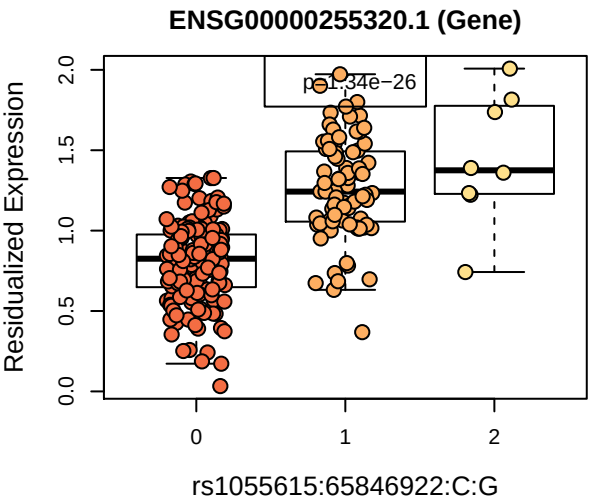
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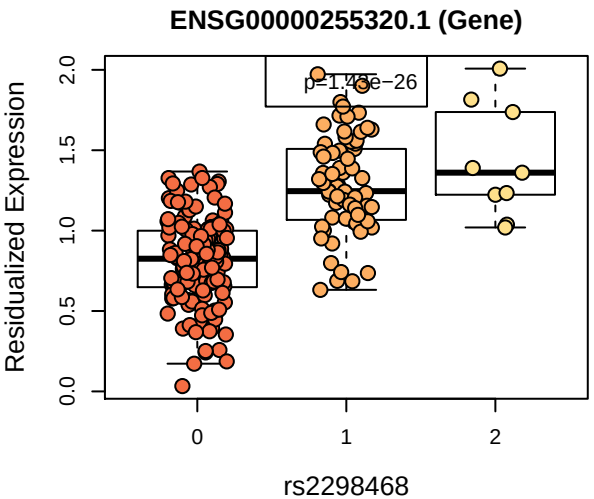
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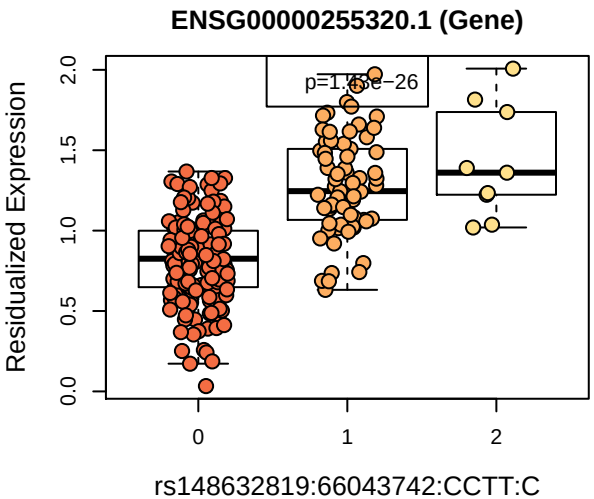
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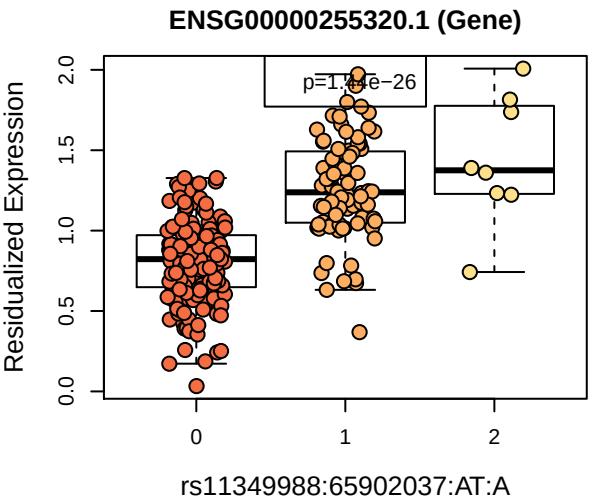
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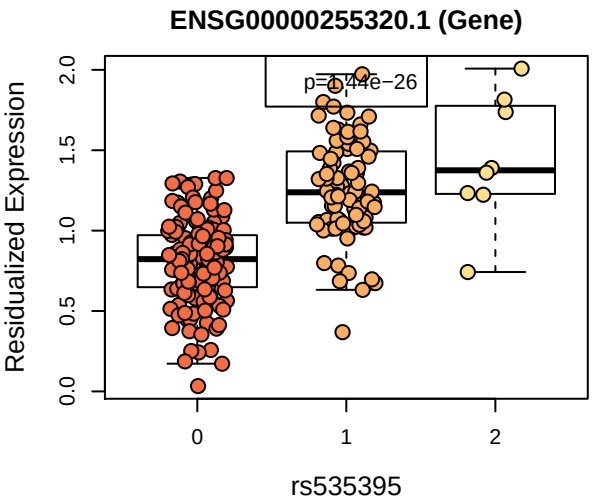
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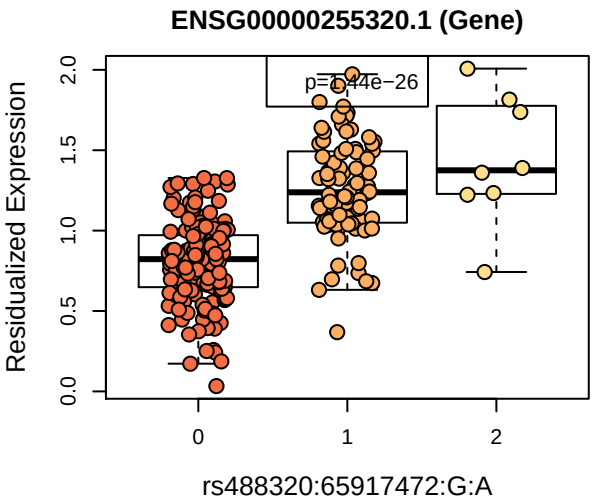
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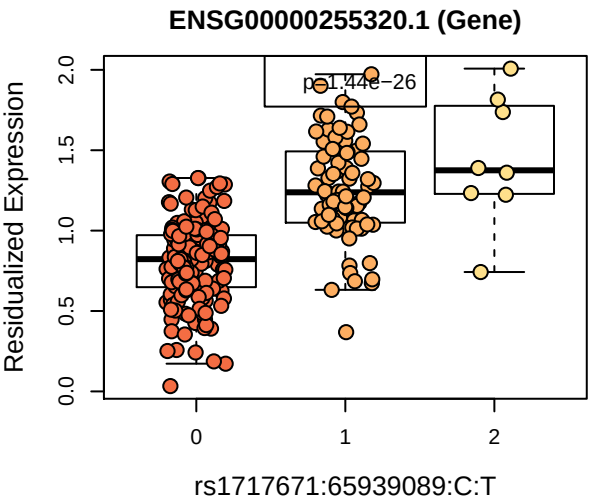
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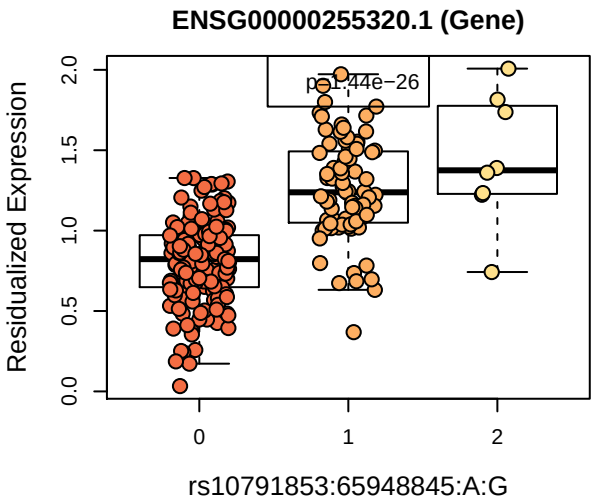
ENSG00000255320.1 (Gene)
Residualized Expression
p=1.44e−26
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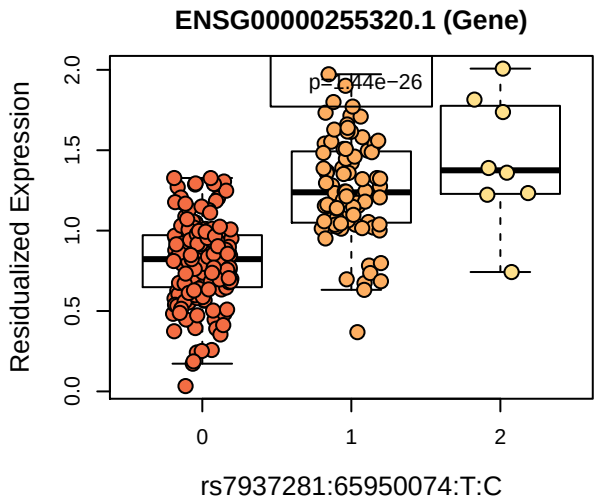
1.5
2.0
0
1
2
rs10791853:65948845:A:G


ENSG00000255320.1 (Gene)
Residualized Expression
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1.5
2.0
0
1
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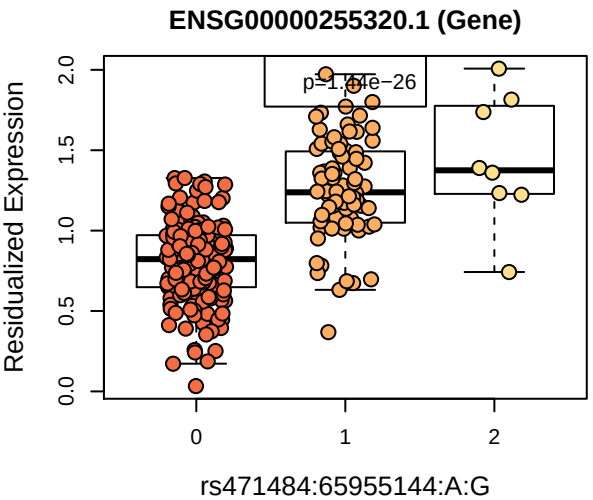
ENSG00000255320.1 (Gene)
Residualized Expression
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1.5
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0
1
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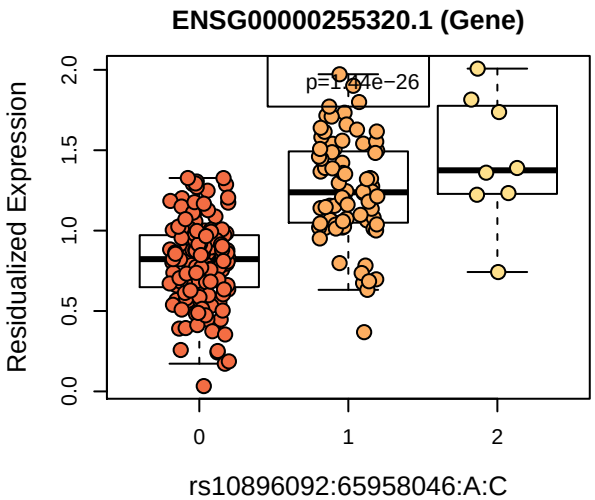
ENSG00000255320.1 (Gene)
Residualized Expression
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1.5
2.0
0
1
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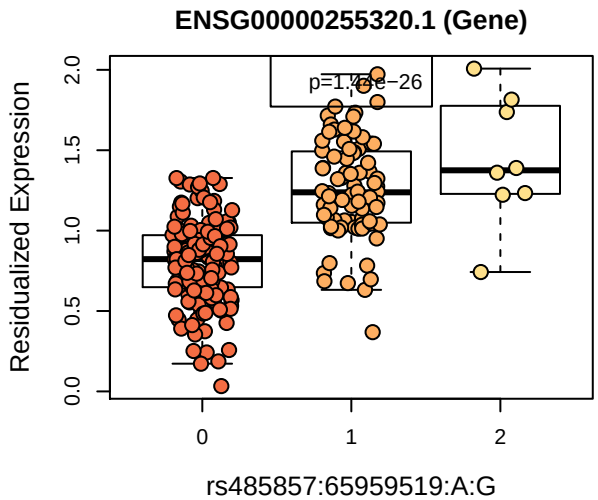
ENSG00000255320.1 (Gene)
Residualized Expression
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1.5
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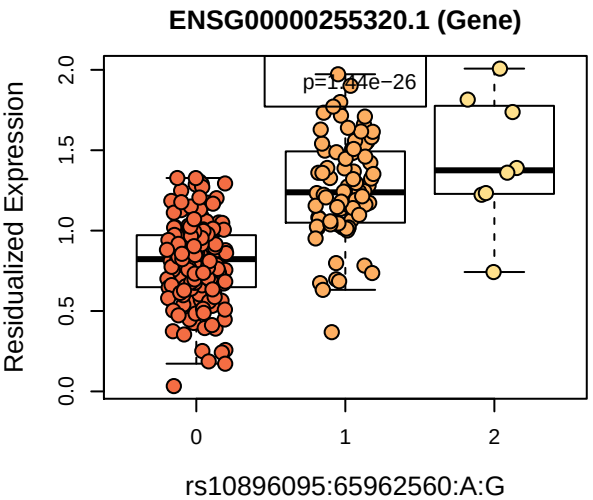
ENSG00000255320.1 (Gene)
p=1.44e−26
Residualized Expression
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1.5
2.0
0
1
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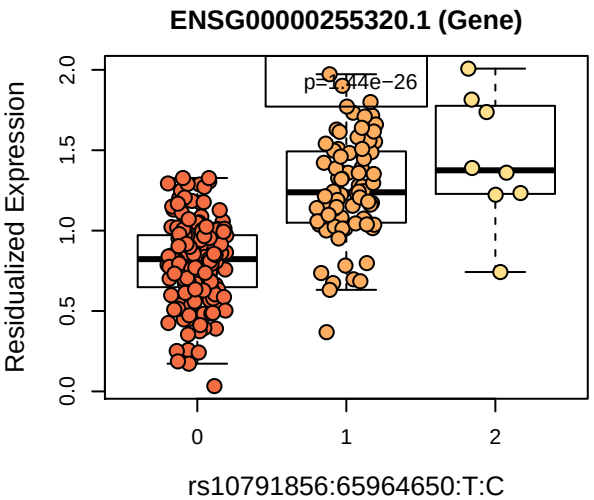
ENSG00000255320.1 (Gene)
p=1.44e−26
Residualized Expression
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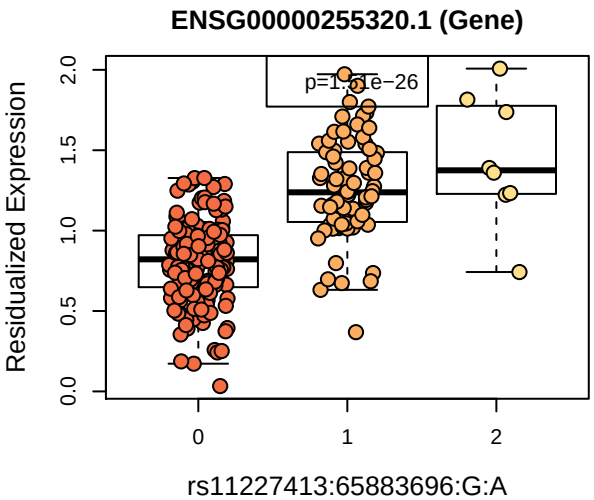
0.5
1.0
1.5
2.0
0
1
2
rs10791856:65964650:T:C


ENSG00000255320.1 (Gene)
p=1.61e−26
Residualized Expression
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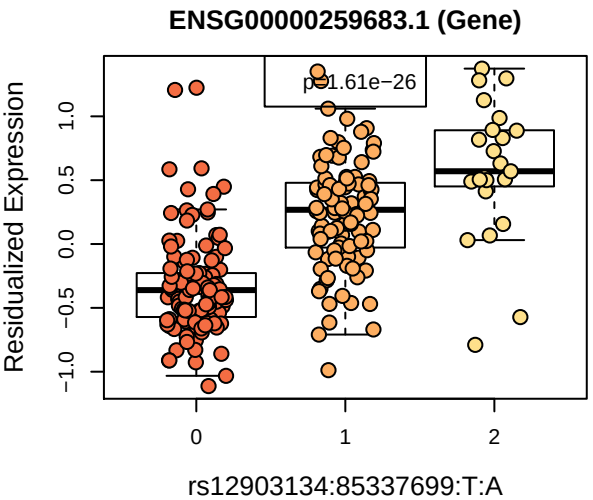
0.5
1.0
1.5
2.0
0
1
2
rs11227413:65883696:G:A


ENSG00000259683.1 (Gene)
p=1.61e−26
Residualized Expression
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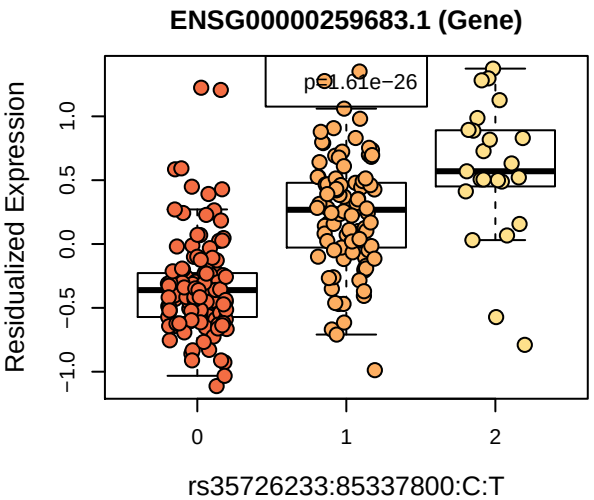
−0.5
0.0
0.5
1.0
0
1
2
rs12903134:85337699:T:A


ENSG00000259683.1 (Gene)
p=1.61e−26
Residualized Expression
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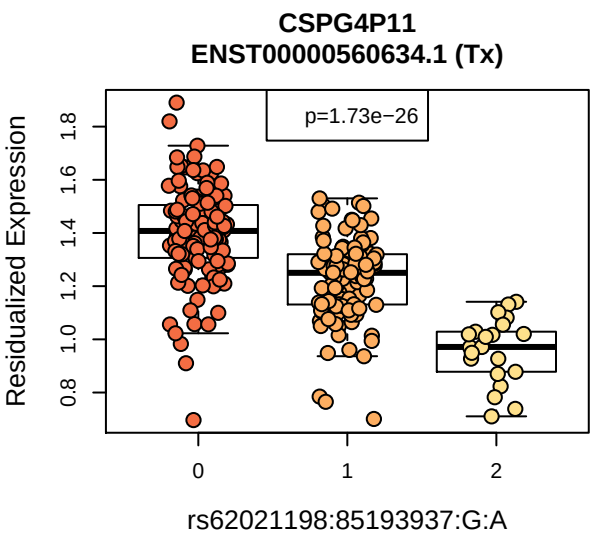
−0.5
0.0
0.5
1.0
0
1
2
rs35726233:85337800:C:T


CSPG4P11
ENST00000560634.1 (Tx)
p=1.73e−26
Residualized Expression
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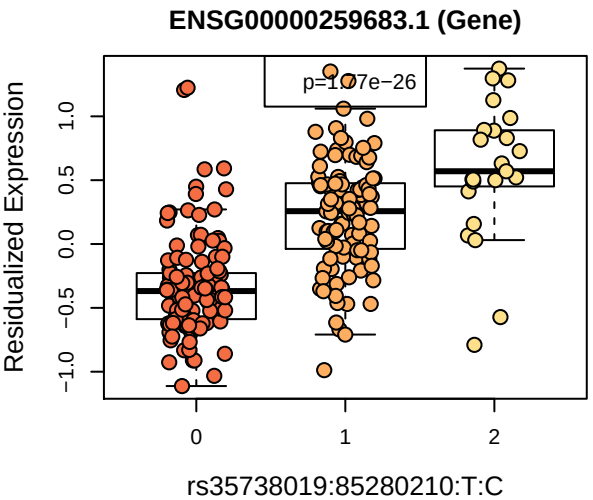
1.0
1.2
1.4
1.6
1.8
0
1
2
rs62021198:85193937:G:A


ENSG00000259683.1 (Gene)
p=1.77e−26
Residualized Expression
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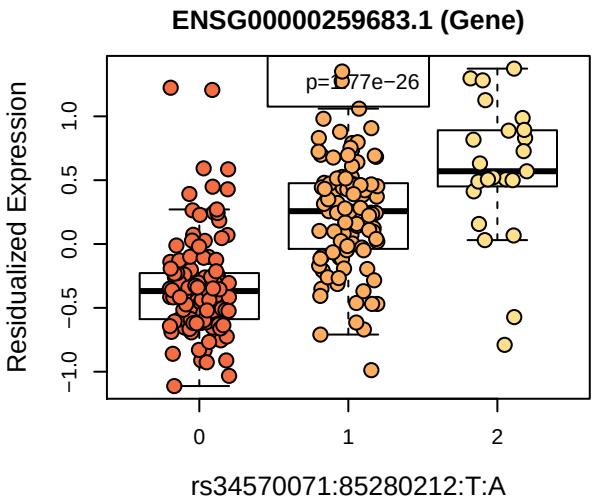
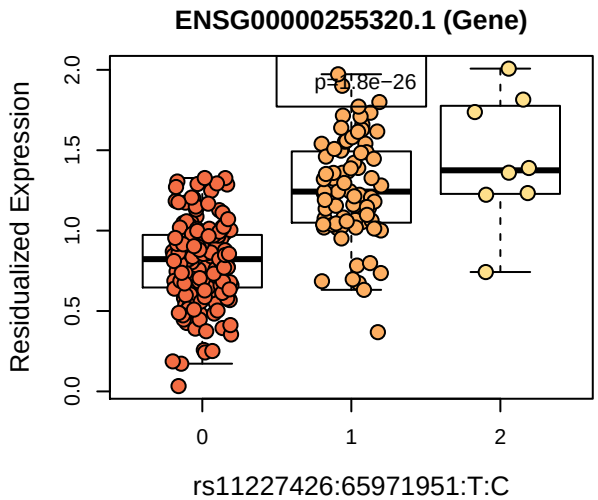
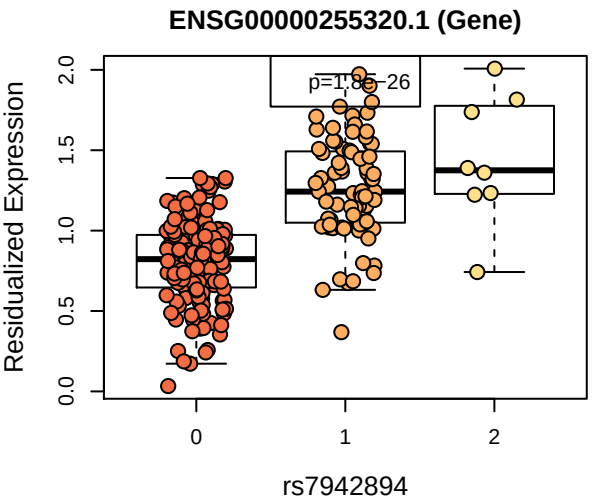
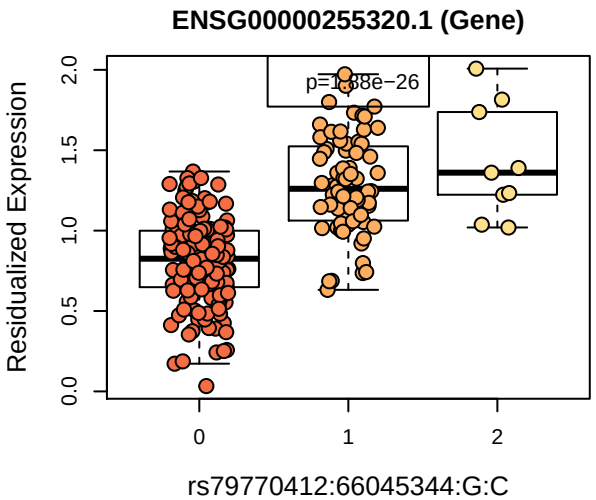
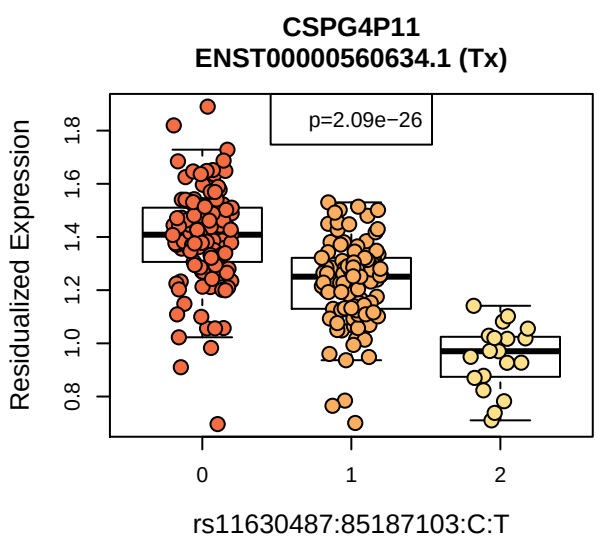

ENSG00000259683.1 (Gene)
p=1.77e−26
Residualized Expression
rs34570071:85280212:T:A


ENSG00000255320.1 (Gene)
p=1.8e−26
Residualized Expression
rs11227426:65971951:T:C


ENSG00000255320.1 (Gene)
Residualized Expression
rs7942894


ENSG00000255320.1 (Gene)
p=1.88e−26
Residualized Expression
rs79770412:66045344:G:C


CSPG4P11
ENST00000560634.1 (Tx)
p=2.09e−26
Residualized Expression
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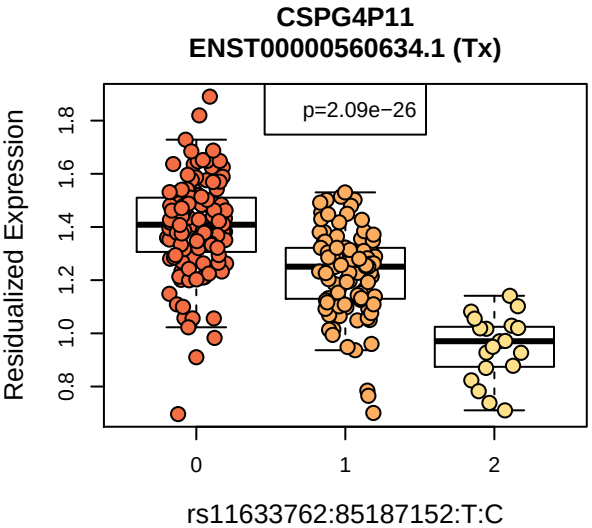
CSPG4P11
ENST00000560634.1 (Tx)
p=2.09e−26
Residualized Expression
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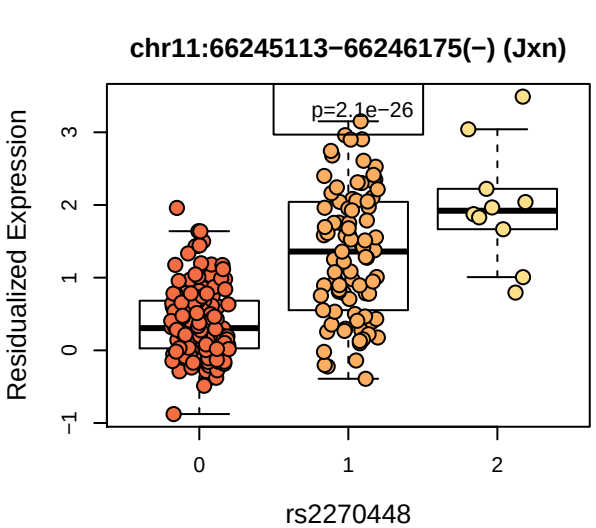
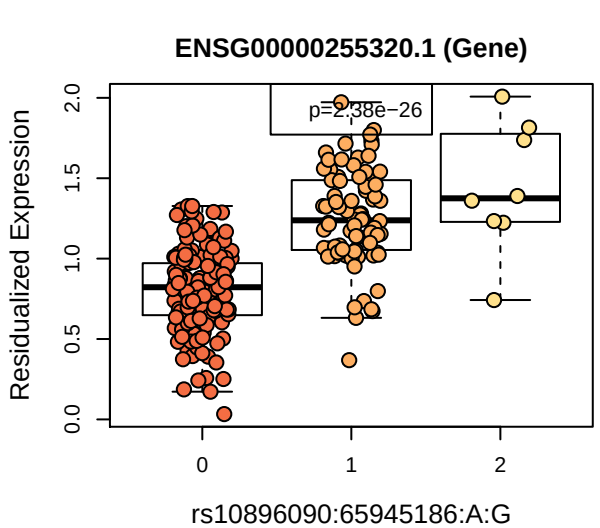
1.0
1.2
1.4
1.6
1.8
0
1
2
rs11633762:85187152:T:C


chr11:66245113−66246175(−) (Jxn)
p=2.1e−26
Residualized Expression
−1
0
1
2
3
0
1
2
rs2270448


ENSG00000255320.1 (Gene)
p=2.38e−26
Residualized Expression
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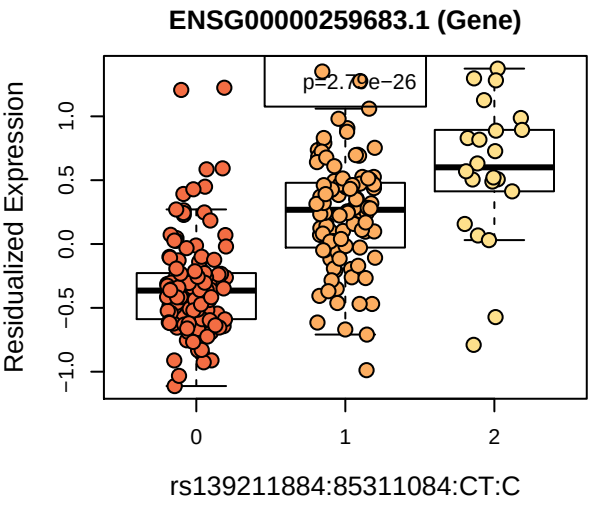
0.5
1.0
1.5
2.0
0
1
2
rs10896090:65945186:A:G


ENSG00000259683.1 (Gene)
p=2.79e−26
Residualized Expression
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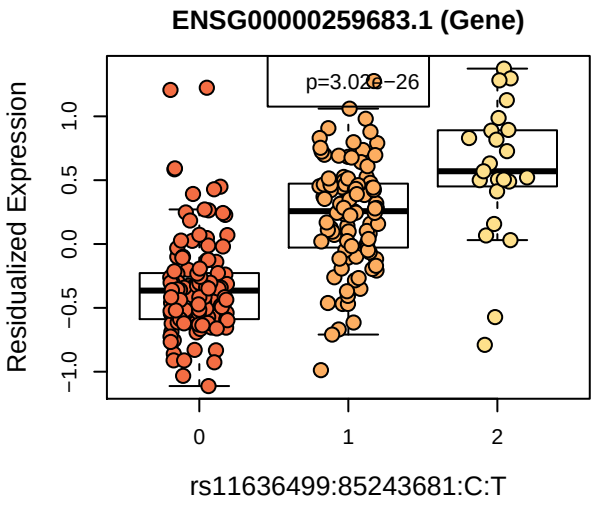
−0.5
0.0
0.5
1.0
0
1
2
rs139211884:85311084:CT:C


ENSG00000259683.1 (Gene)
p=3.02e−26
Residualized Expression
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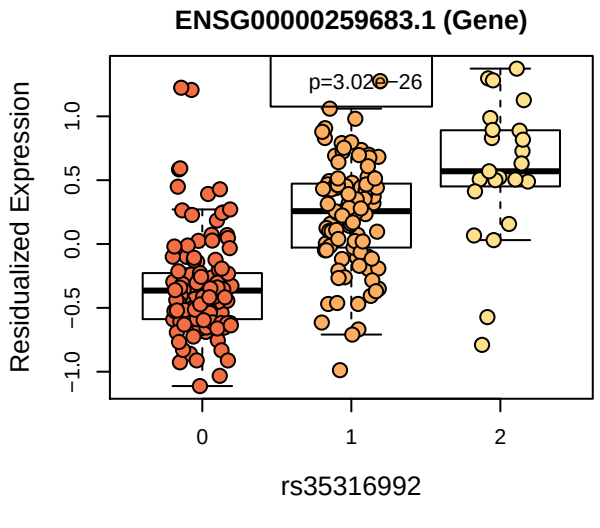
−0.5
0.0
0.5
1.0
0
1
2
rs11636499:85243681:C:T


ENSG00000259683.1 (Gene)
p=3.02e−26
Residualized Expression
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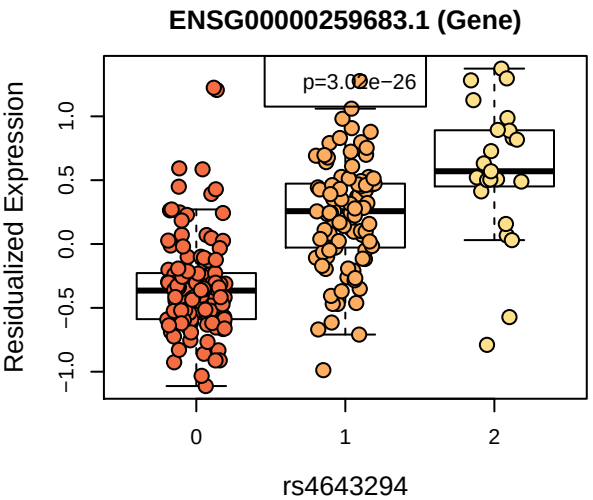
−0.5
0.0
0.5
1.0
0
1
2
rs35316992


ENSG00000259683.1 (Gene)
p=3.02e−26
Residualized Expression
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0.5
0.0
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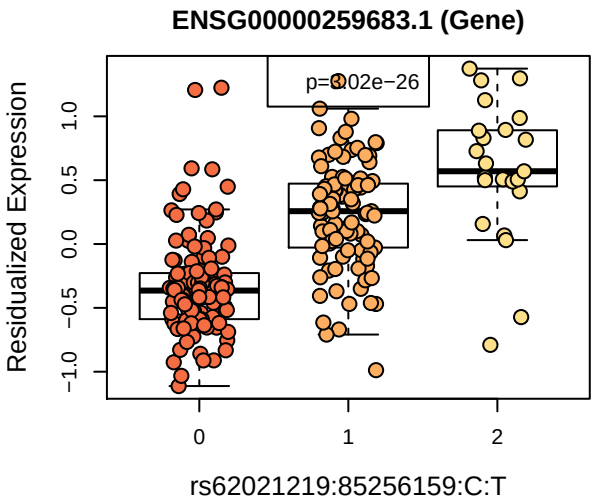
−1.0
0
1
2
rs4643294


ENSG00000259683.1 (Gene)
p=3.02e−26
Residualized Expression
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0.0
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−1.0
0
1
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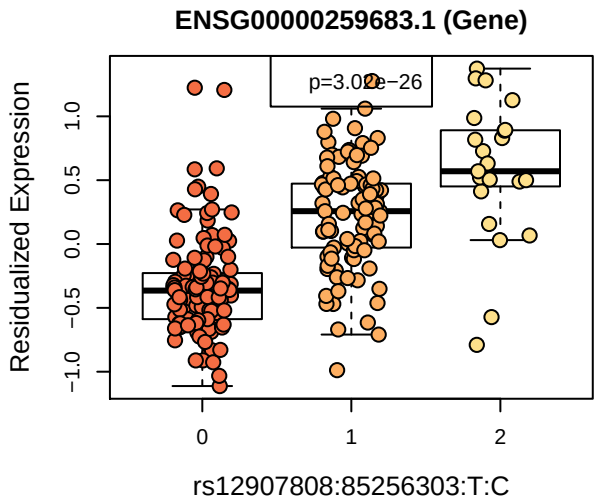
ENSG00000259683.1 (Gene)
p=3.02e−26
Residualized Expression
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−0.5
−1.0
0
1
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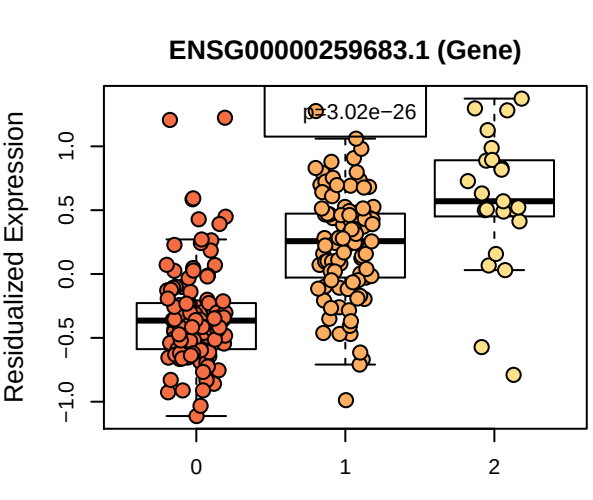
rs12907808:85256303:T:C


ENSG00000259683.1 (Gene)
p=3.02e−26
Residualized Expression
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−1.0
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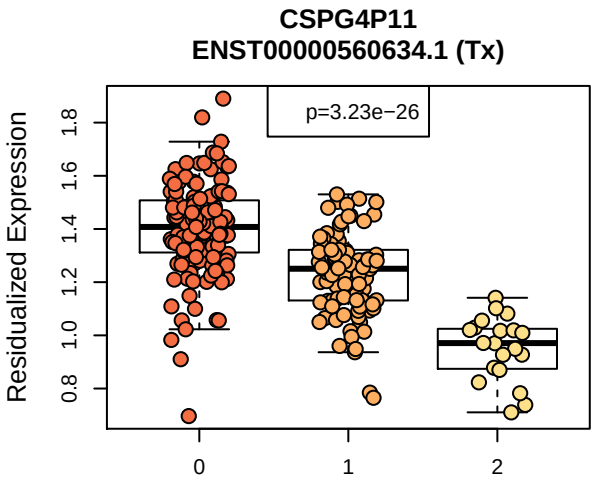
1
2
rs34900908


CSPG4P11
ENST00000560634.1 (Tx)
p=3.23e−26
Residualized Expression
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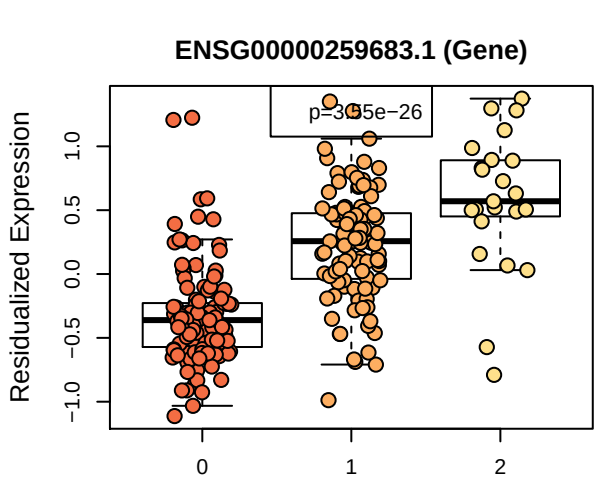
1.6
1.4
1.2
1.0
0.8
0
1
2
rs1061737:85183790:G:C


ENSG00000259683.1 (Gene)
p=3.05e−26
Residualized Expression
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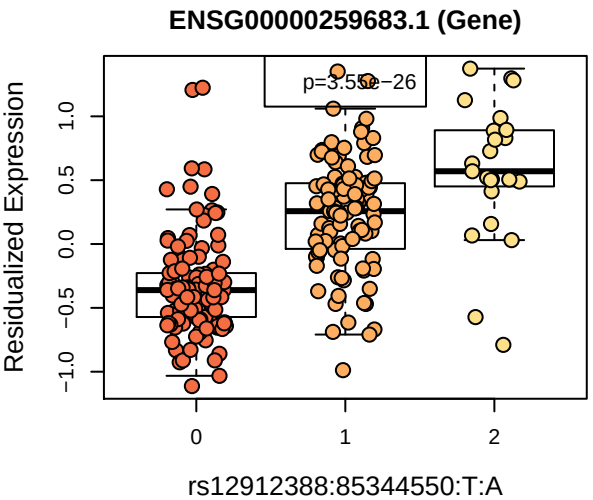
0.5
0.0
−0.5
−1.0
0
1
2
rs35960805:85343980:T:G


ENSG00000259683.1 (Gene)
p=3.55e−26
Residualized Expression
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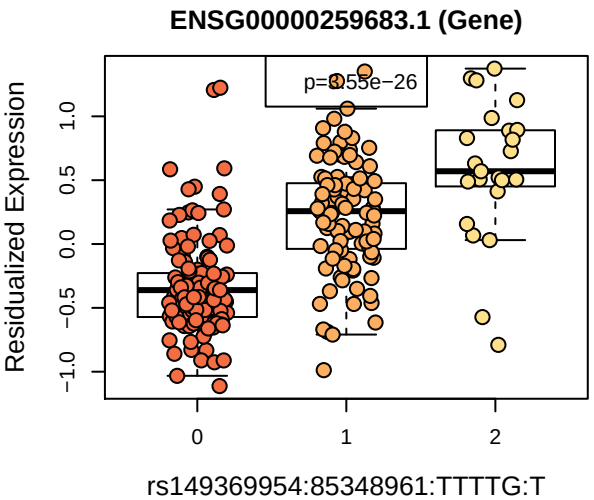
0.5
0.0
−0.5
−1.0
0
1
2
rs12912388:85344550:T:A


ENSG00000259683.1 (Gene)
p=3.55e−26
Residualized Expression
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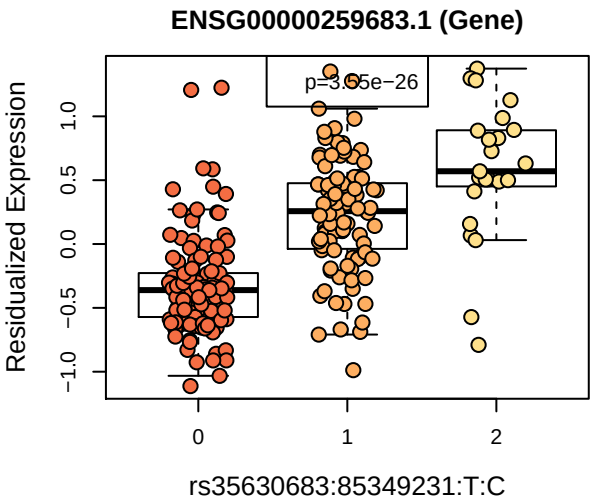
0.5
0.0
−0.5
−1.0
0
1
2
rs149369954:85348961:TTTTG:T


ENSG00000259683.1 (Gene)
p=3.55e−26
Residualized Expression
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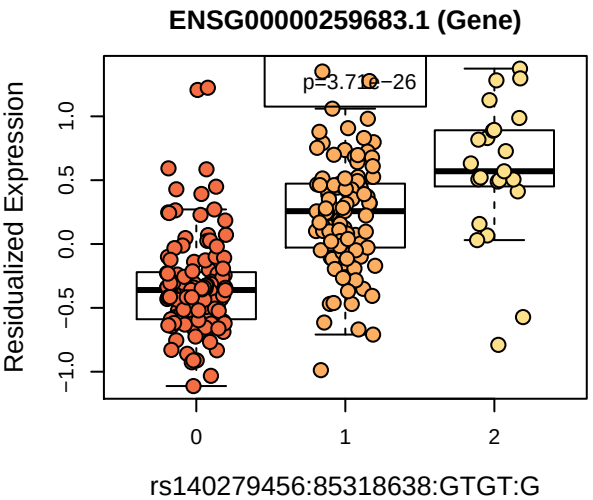
0.5
0.0
−0.5
−1.0
0
1
2
rs35630683:85349231:T:C


ENSG00000259683.1 (Gene)
p=3.71e−26
Residualized Expression
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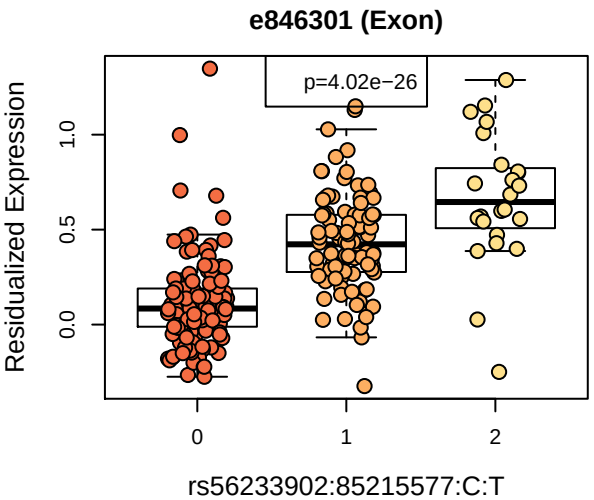
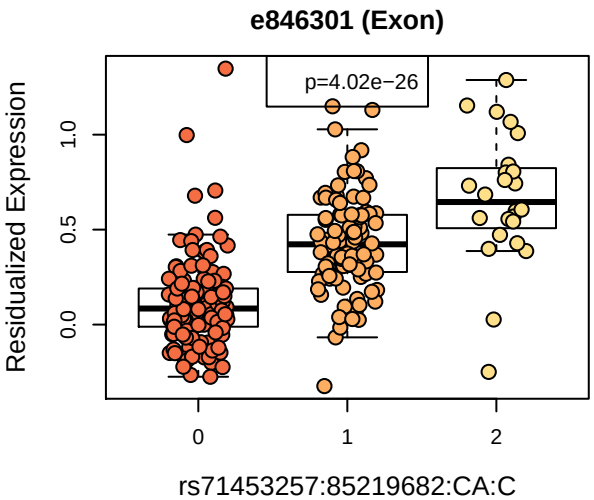
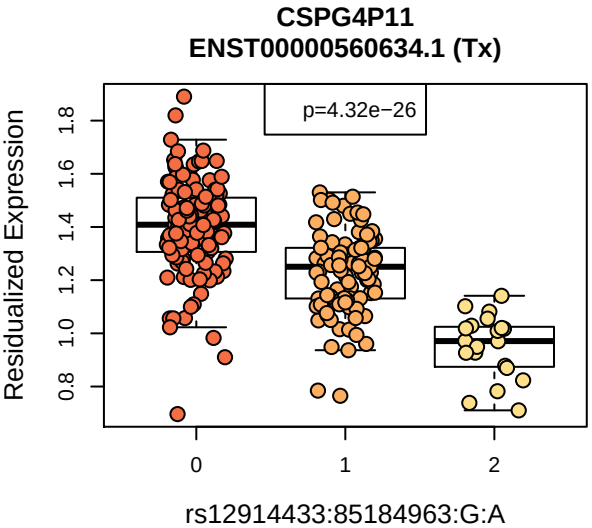
0.5
0.0
−0.5
−1.0
0
1
2
rs140279456:85318638:GTGT:G


e846301 (Exon)
p=4.02e−26
Residualized Expression
1.0
0.5
0.0
0
1
2
rs56233902:85215577:C:T


e846301 (Exon)
p=4.02e−26
Residualized Expression
1.0
0.5
0.0
0
1
2
rs71453257:85219682:CA:C


CSPG4P11
ENST00000560634.1 (Tx)
p=4.32e−26
Residualized Expression
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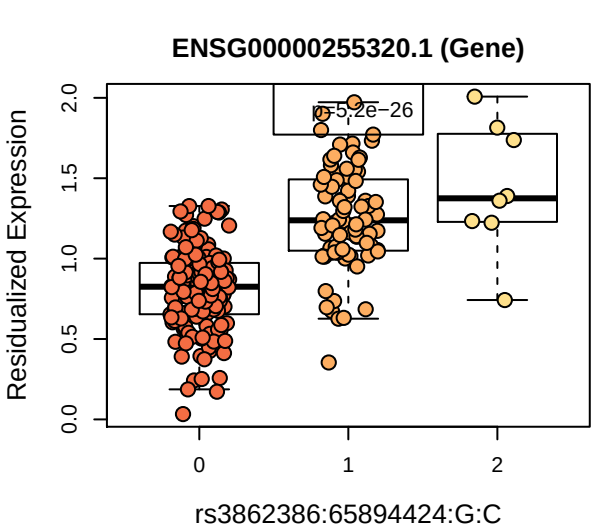
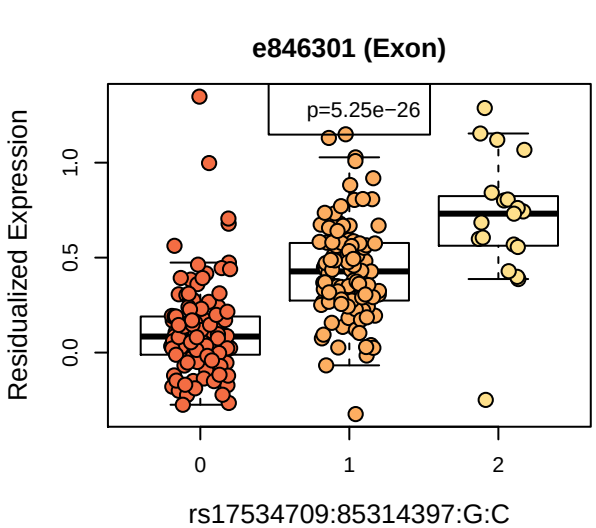
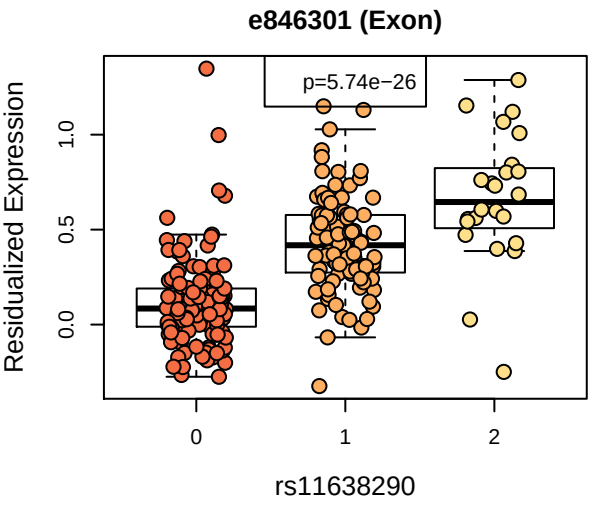
1.0
1.2
1.4
1.6
1.8
0
1
2
rs12914433:85184963:G:A


ENSG00000255320.1 (Gene)
p=5.2e−26
Residualized Expression
0.0
0.5
1.0
1.5
2.0
0
1
2
rs3862386:65894424:G:C


e846301 (Exon)
p=5.25e−26
Residualized Expression
0.0
0.5
1.0
0
1
2
rs17534709:85314397:G:C


e846301 (Exon)
p=5.74e−26
Residualized Expression
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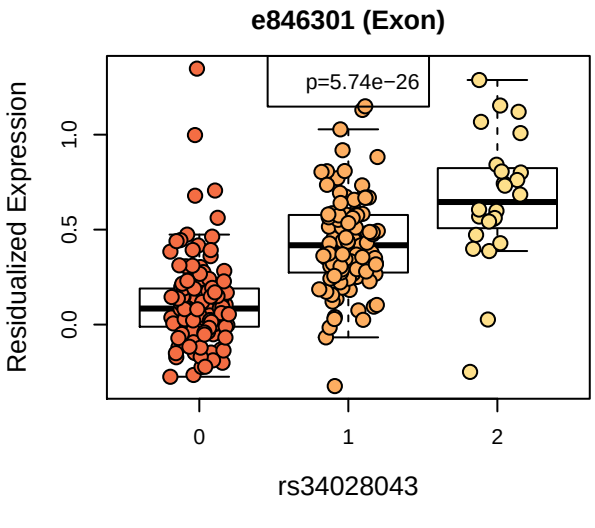
0.5
1.0
0
1
2
rs11638290


e846301 (Exon)
p=5.74e−26
Residualized Expression
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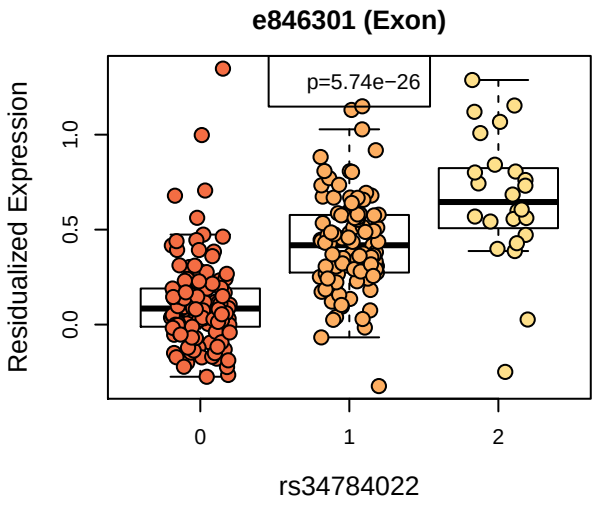
0.5
1.0
0
1
2
rs34028043


e846301 (Exon)
p=5.74e−26
Residualized Expression
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1.0
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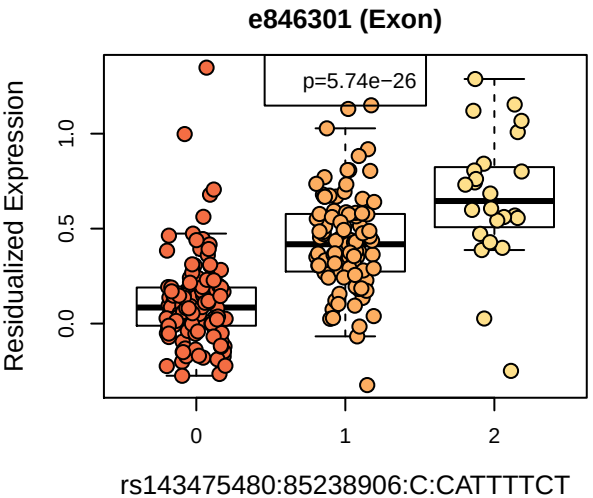
1
2
rs34784022


e846301 (Exon)
p=5.74e−26
Residualized Expression
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0.5
1.0
0
1
2
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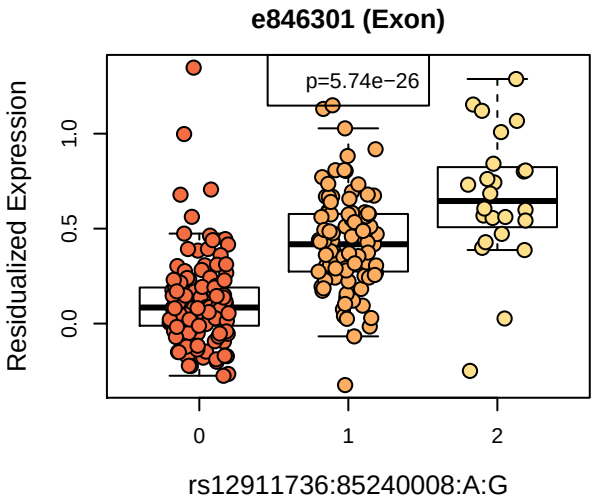
e846301 (Exon)
p=5.74e−26
Residualized Expression
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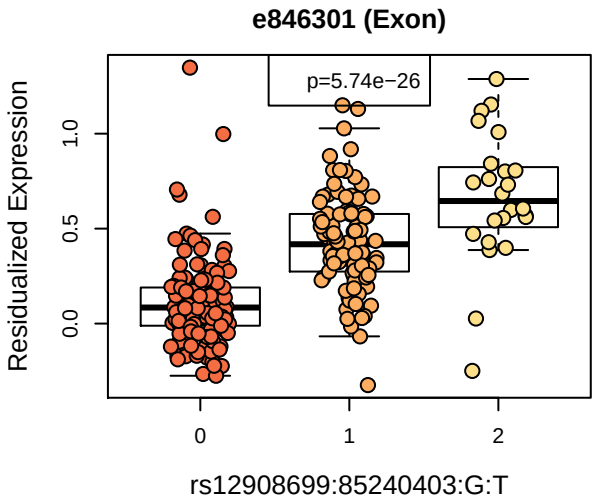
0.5
1.0
0
1
2
rs12911736:85240008:A:G


e846301 (Exon)
p=5.74e−26
Residualized Expression
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0.5
1.0
0
1
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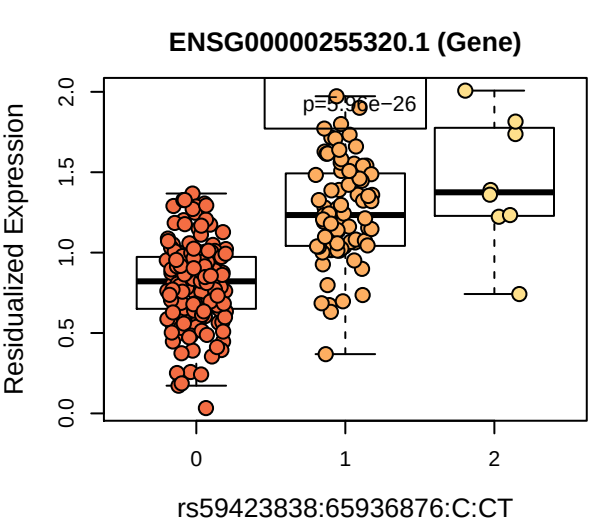
rs12908699:85240403:G:T


ENSG00000255320.1 (Gene)
p=5.96e−26
Residualized Expression
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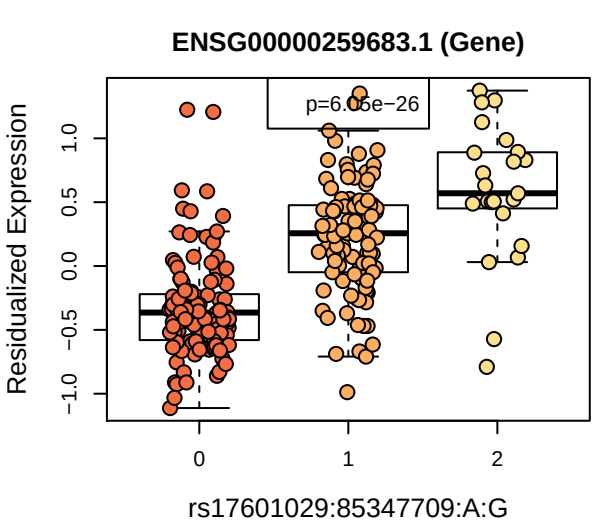
0.5
1.0
1.5
2.0
0
1
2
rs59423838:65936876:C:CT


ENSG00000259683.1 (Gene)
p=6.06e−26
Residualized Expression
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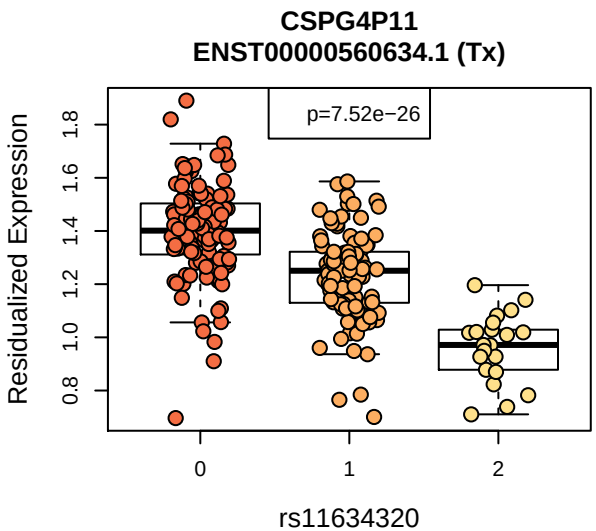
−0.5
0.0
0.5
1.0
0
1
2
rs17601029:85347709:A:G


CSPG4P11
ENST00000560634.1 (Tx)
p=7.52e−26
Residualized Expression
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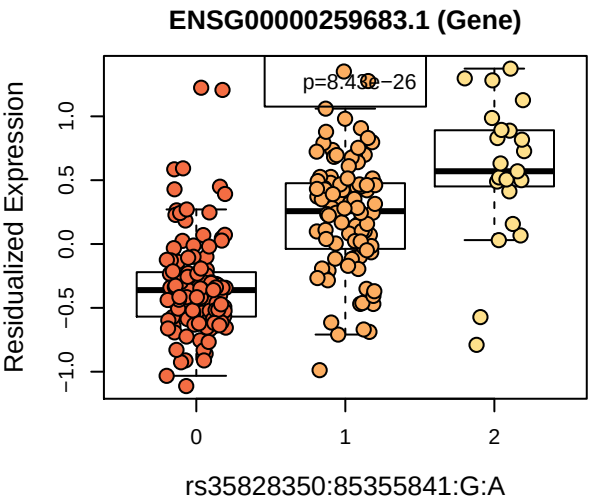
1.0
1.2
1.4
1.6
1.8
0
1
2
rs11634320


ENSG00000259683.1 (Gene)
p=8.43e−26
Residualized Expression
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0.5
0.0
−0.5
−1.0
0
1
2
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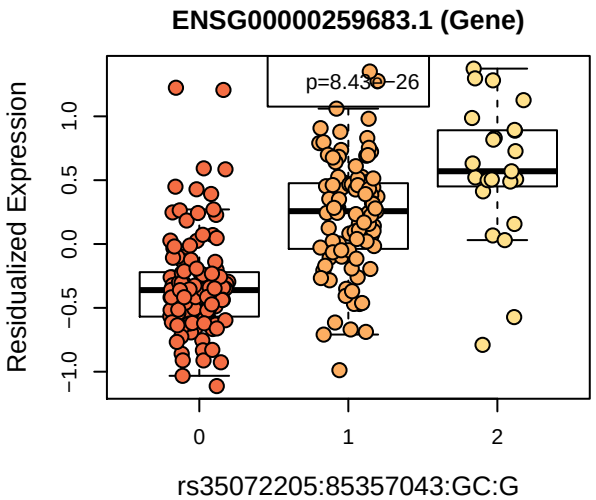
ENSG00000259683.1 (Gene)
p=8.43e−26
Residualized Expression
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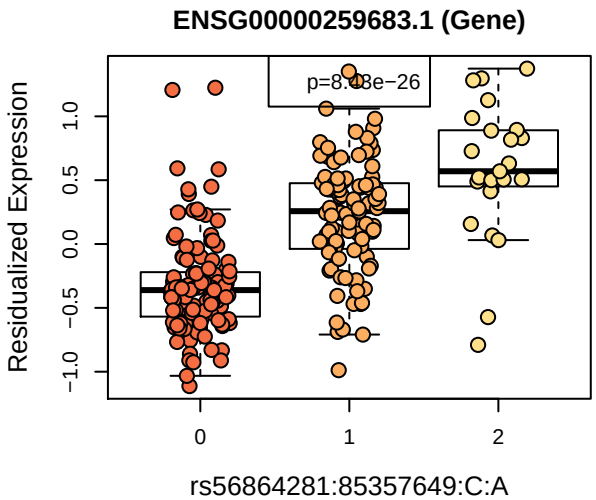
0.5
0.0
−0.5
−1.0
0
1
2
rs35072205:85357043:GC:G


ENSG00000259683.1 (Gene)
p=8.48e−26
Residualized Expression
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0.5
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−0.5
−1.0
0
1
2
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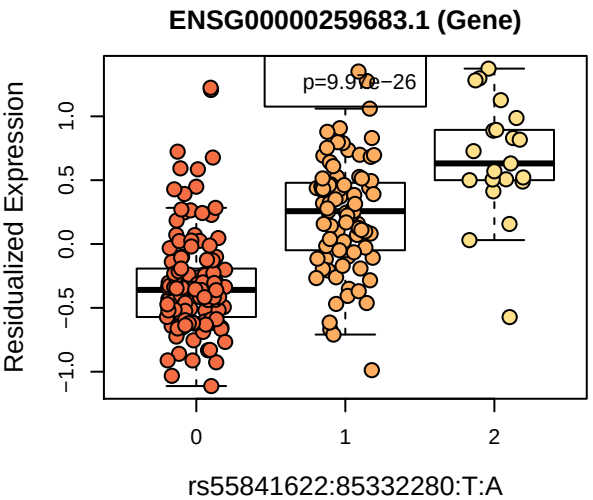
ENSG00000259683.1 (Gene)
p=9.97e−26
Residualized Expression
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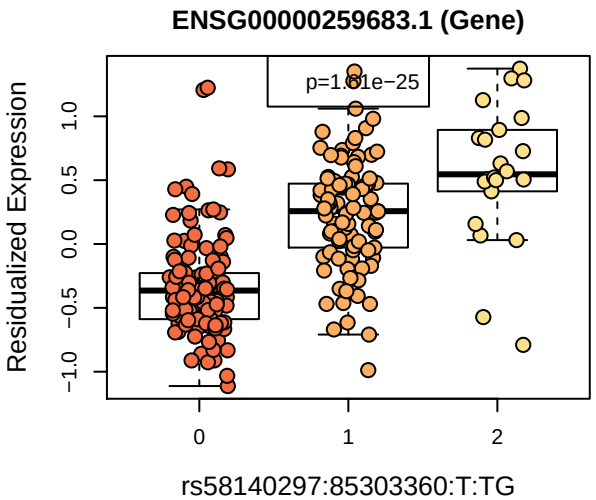
0.5
0.0
−0.5
−1.0
0
1
2
rs55841622:85332280:T:A


ENSG00000259683.1 (Gene)
p=1.61e−25
Residualized Expression
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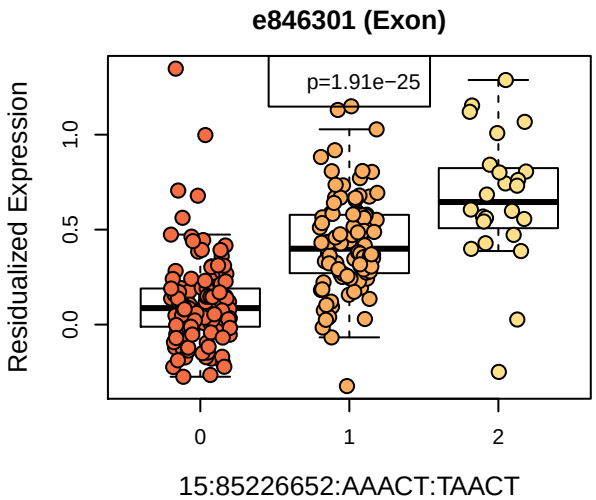
0.5
0.0
−0.5
−1.0
0
1
2
rs58140297:85303360:T:TG


e846301 (Exon)
p=1.91e−25
Residualized Expression
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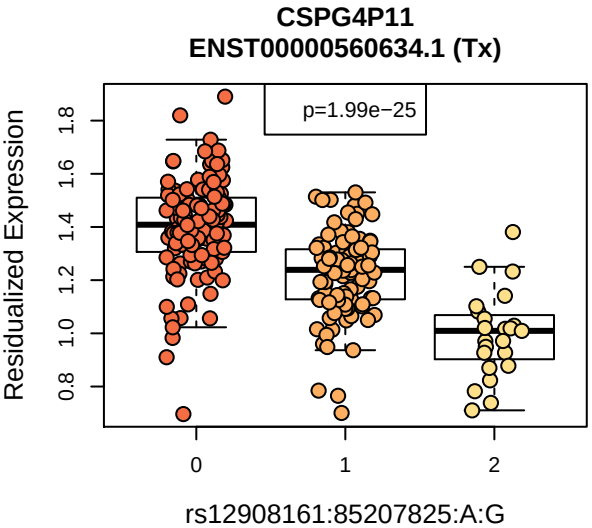
0.5
0.0
0
1
2
15:85226652:AAACT:TAACT


CSPG4P11
ENST00000560634.1 (Tx)
p=1.99e−25
Residualized Expression
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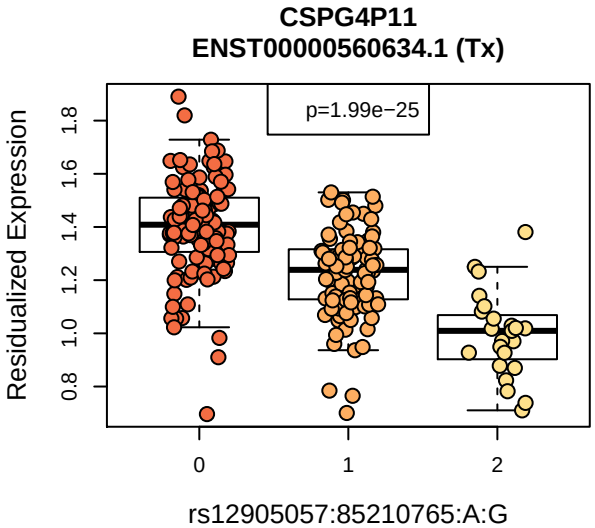
1.0
1.2
1.4
1.6
1.8
0
1
2
rs12908161:85207825:A:G


CSPG4P11
ENST00000560634.1 (Tx)
p=1.99e−25
Residualized Expression
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1.0
1.2
1.4
1.6
1.8
0
1
2
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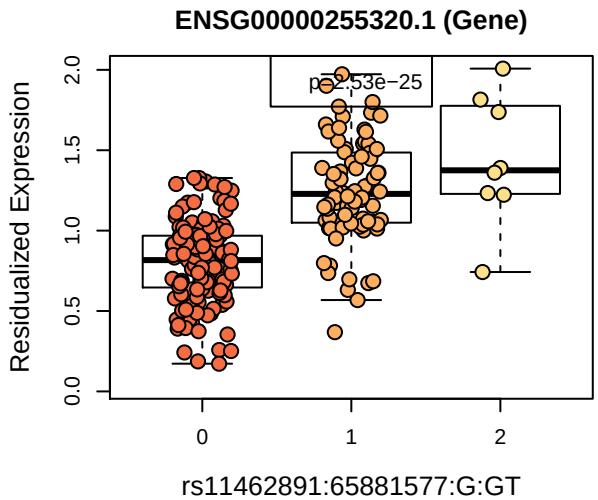
ENSG00000255320.1 (Gene)
p=2.53e−25
Residualized Expression
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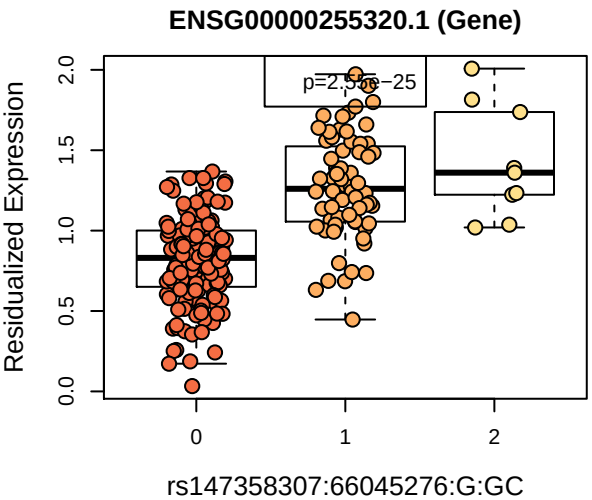
0.5
1.0
1.5
2.0
0
1
2
rs11462891:65881577:G:GT


ENSG00000255320.1 (Gene)
p=2.56e−25
Residualized Expression
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0.5
1.0
1.5
2.0
0
1
2
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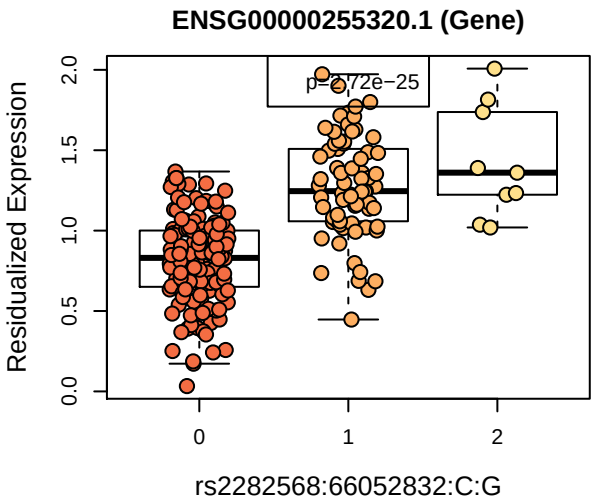
ENSG00000255320.1 (Gene)
p=2.72e−25
Residualized Expression
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0.5
1.0
1.5
2.0
0
1
2
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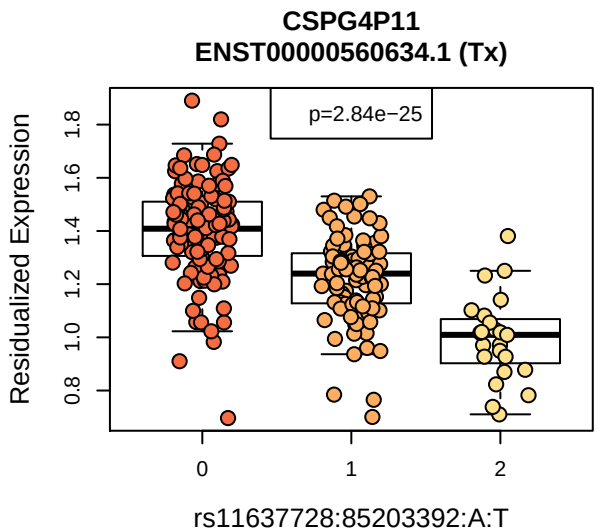
CSPG4P11
ENST00000560634.1 (Tx)
p=2.84e−25
Residualized Expression
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1.0
1.2
1.4
1.6
1.8
0
1
2
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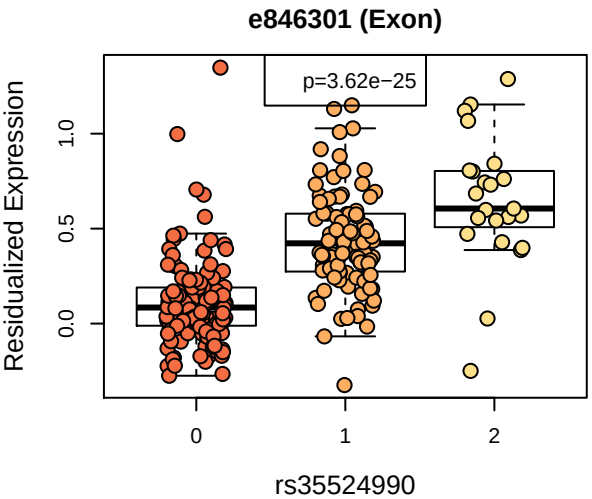
e846301 (Exon)
p=3.62e−25
Residualized Expression
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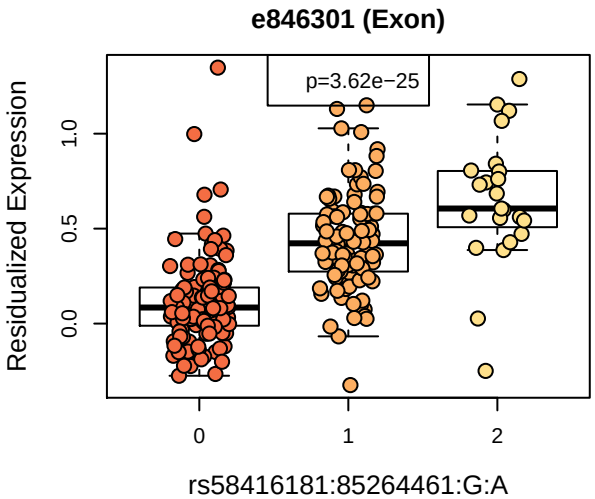
0.5
1.0
0
1
2
rs35524990


e846301 (Exon)
p=3.62e−25
Residualized Expression
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1.0
0
1
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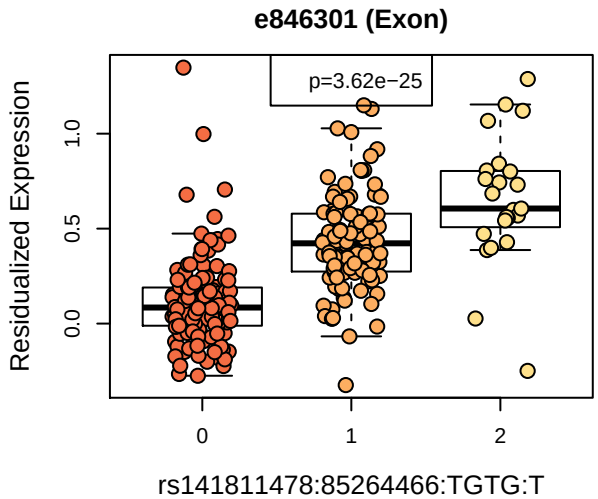
e846301 (Exon)
p=3.62e−25
Residualized Expression
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1.0
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1
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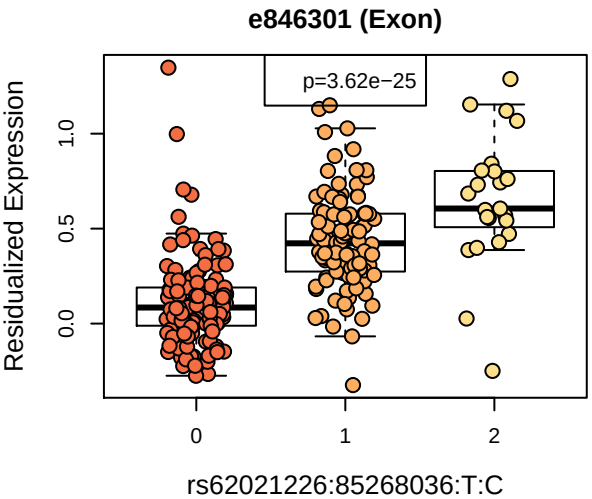
e846301 (Exon)
p=3.62e−25
Residualized Expression
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0
1
2
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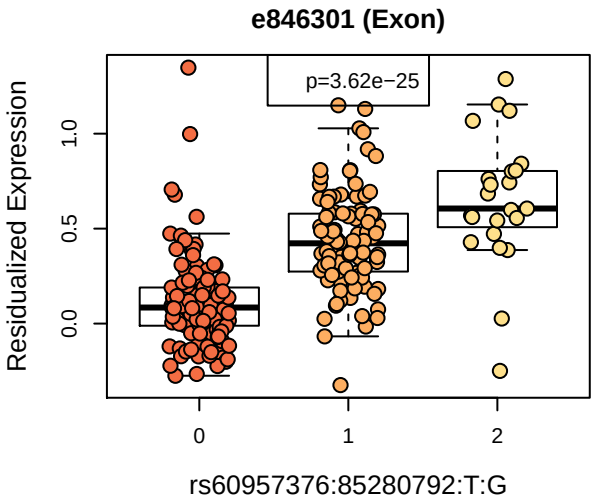
e846301 (Exon)
p=3.62e−25
Residualized Expression
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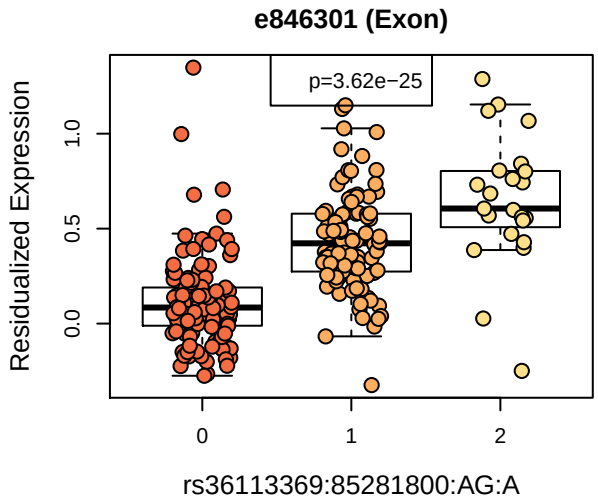
e846301 (Exon)
p=3.62e−25
Residualized Expression
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0
1
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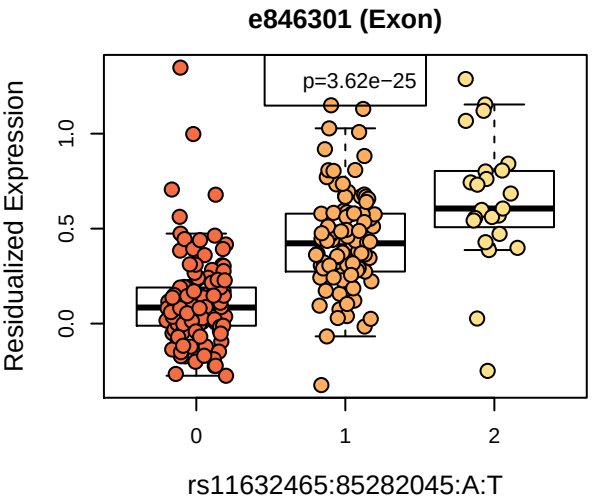
e846301 (Exon)
p=3.62e−25
Residualized Expression
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1.0
0
1
2
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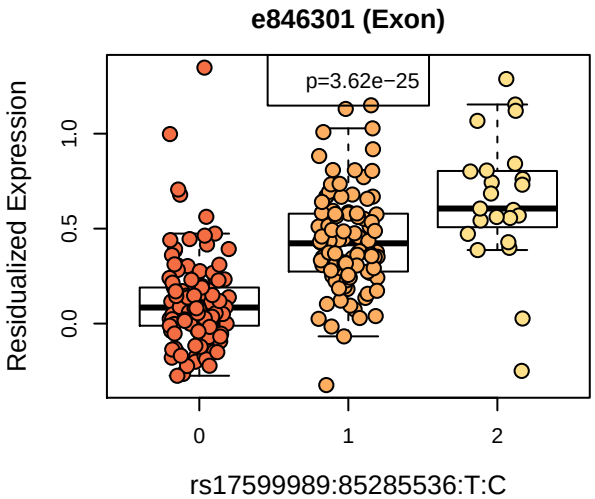
e846301 (Exon)
p=3.62e−25
Residualized Expression
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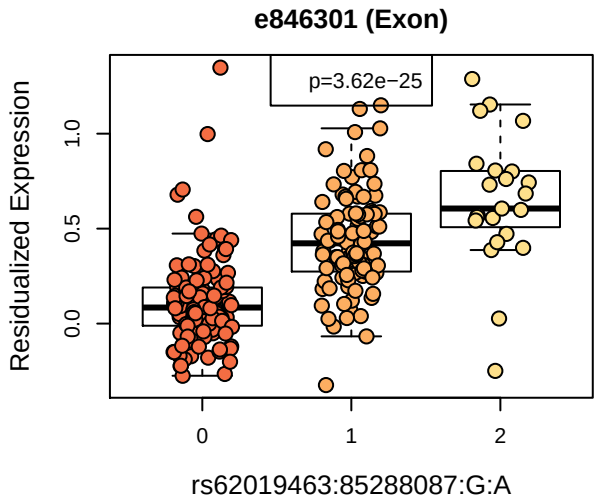
0.5
1.0
0
1
2
rs17599989:85285536:T:C


e846301 (Exon)
p=3.62e−25
Residualized Expression
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0
1
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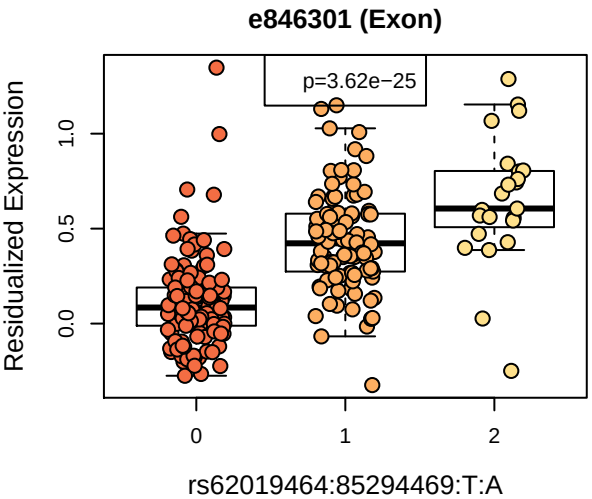
e846301 (Exon)
p=3.62e−25
Residualized Expression
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1.0
0
1
2
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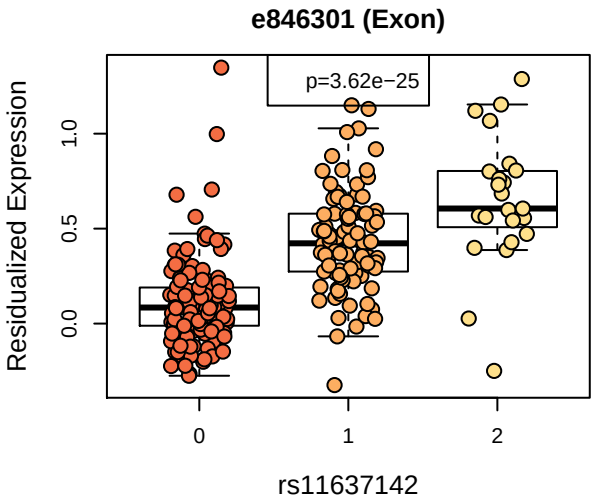
e846301 (Exon)
p=3.62e−25
Residualized Expression
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1
2
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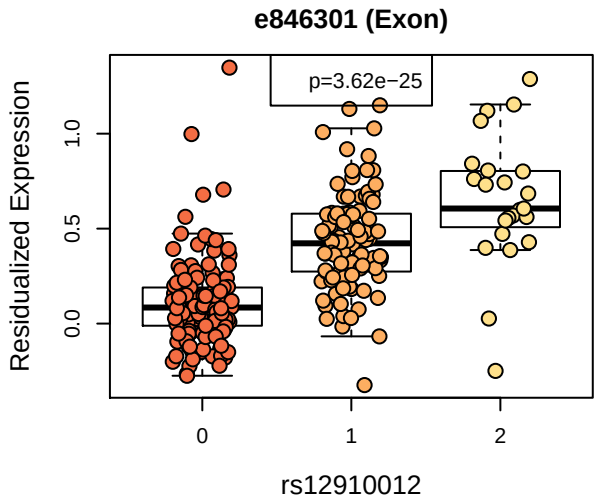
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p=3.62e−25
Residualized Expression
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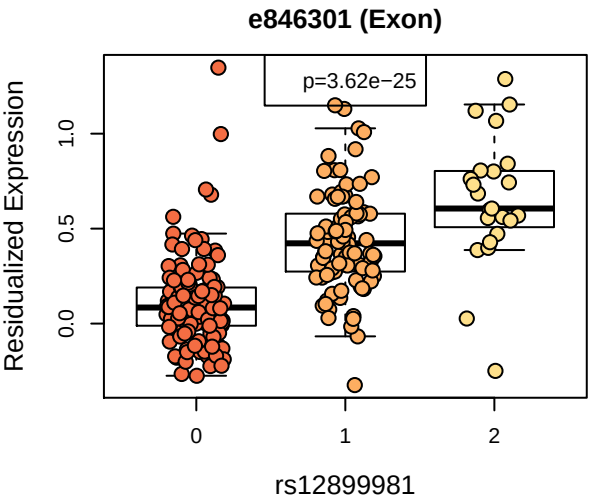
0
1
2
rs12910012


e846301 (Exon)
p=3.62e−25
Residualized Expression
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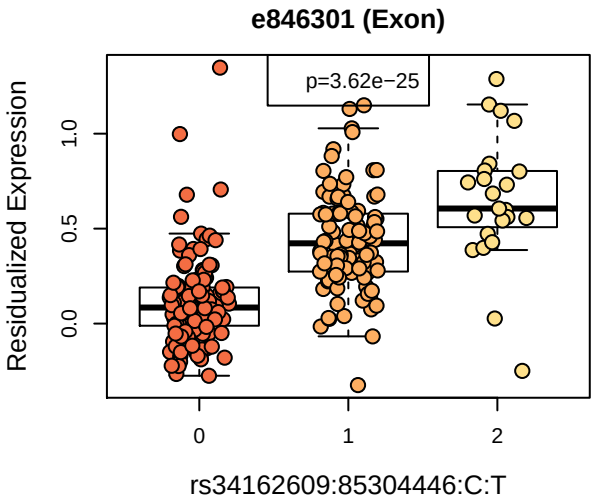
1
2
rs12899981


e846301 (Exon)
p=3.62e−25
Residualized Expression
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1.0
0
1
2
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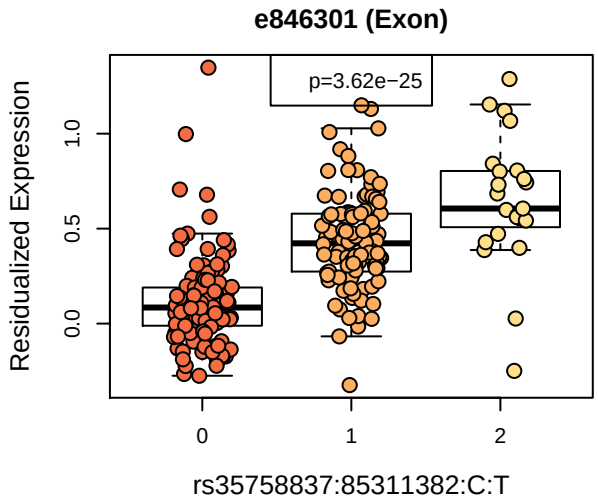
e846301 (Exon)
p=3.62e−25
Residualized Expression
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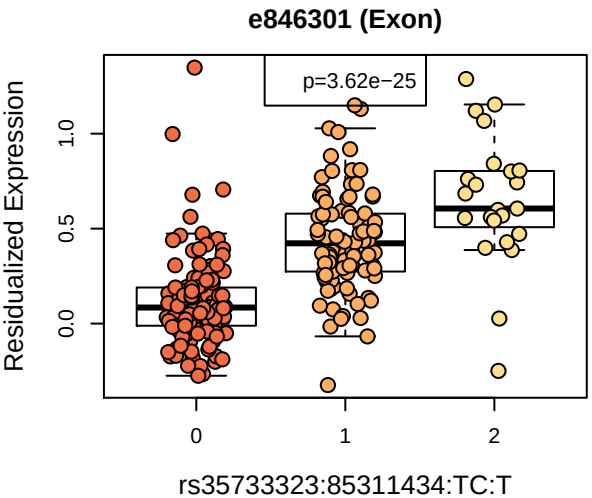
0.5
1.0
0
1
2
rs35758837:85311382:C:T


e846301 (Exon)
p=3.62e−25
Residualized Expression
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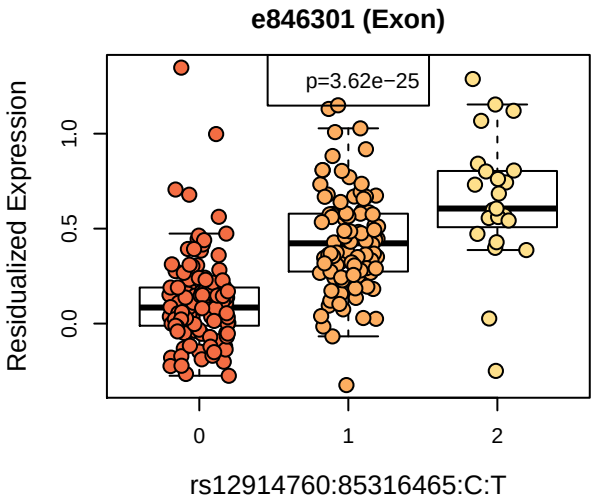
0
1
2
rs35733323:85311434:TC:T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p=3.62e−25
Residualized Expression
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0
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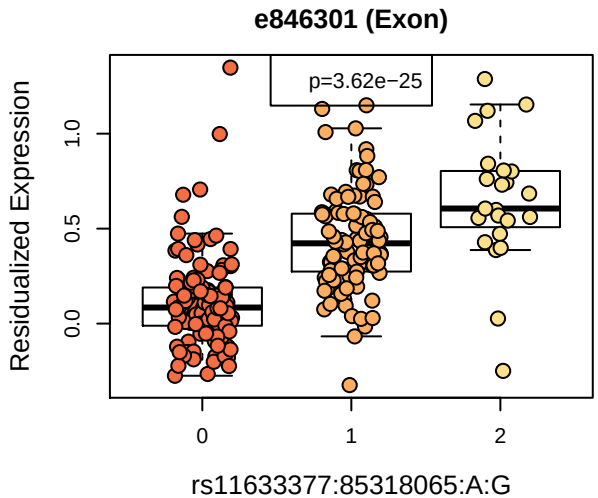
2
rs12914760:85316465:C:T


e846301 (Exon)
p=3.62e−25
Residualized Expression
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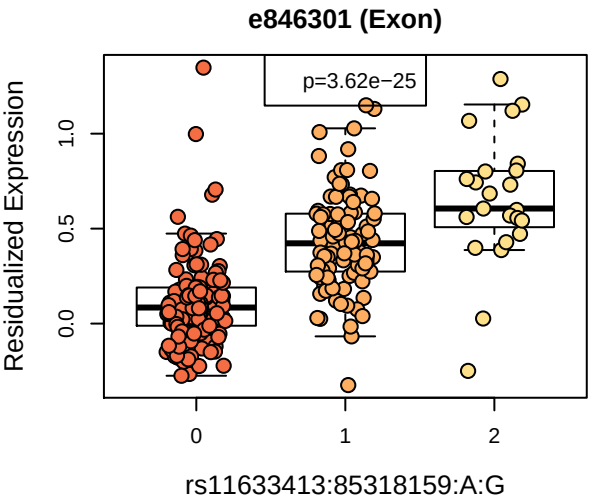
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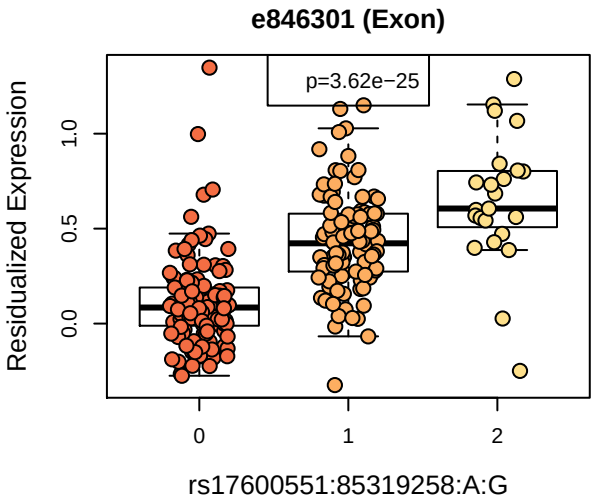
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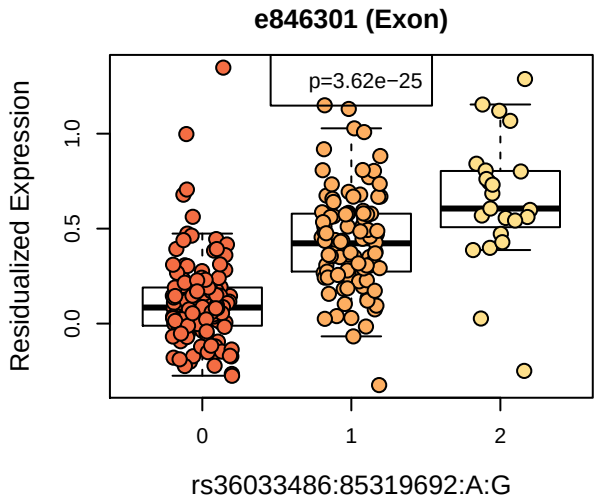
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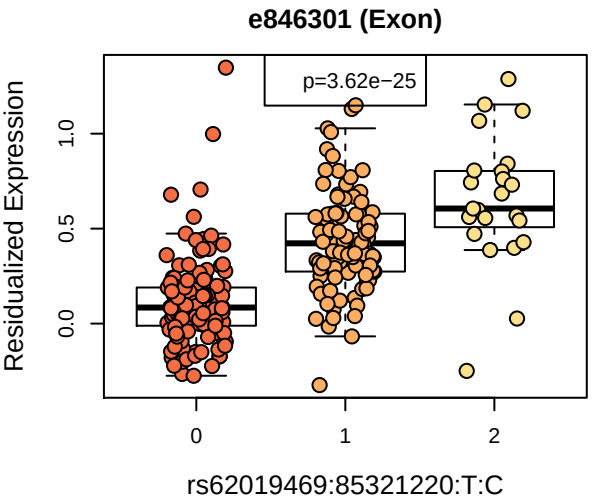
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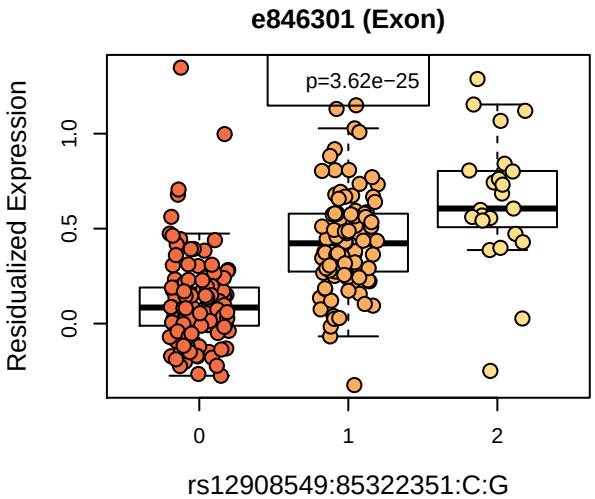
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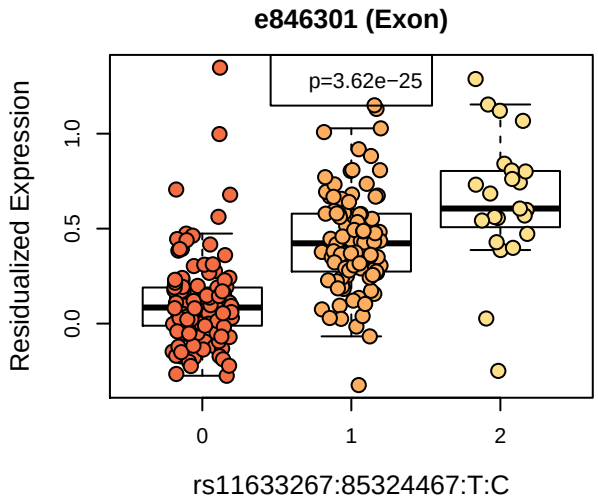
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Residualized Expression
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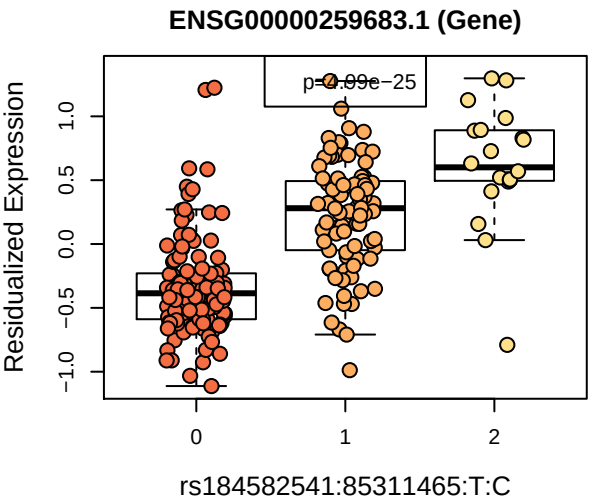
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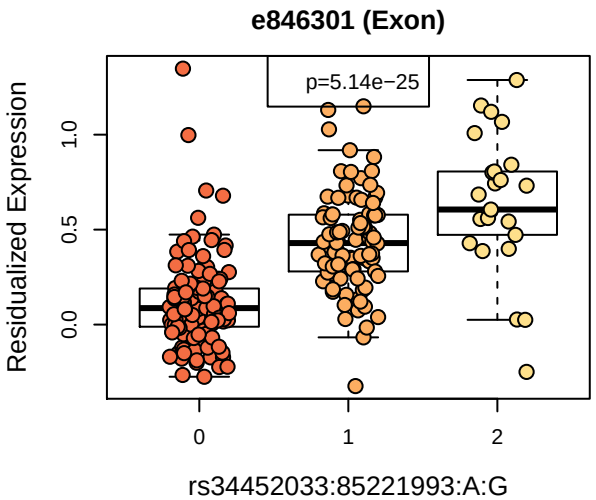
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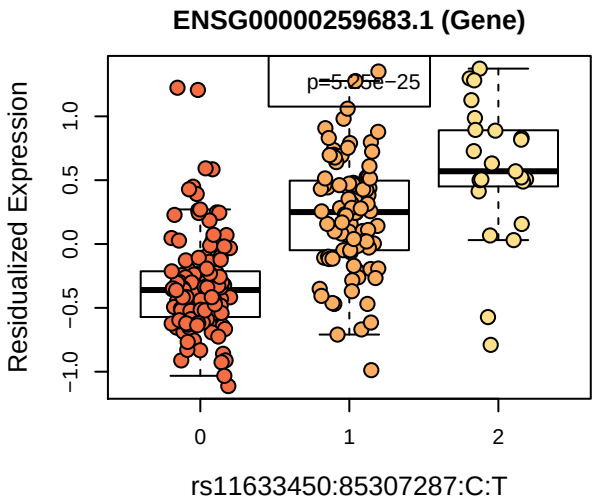
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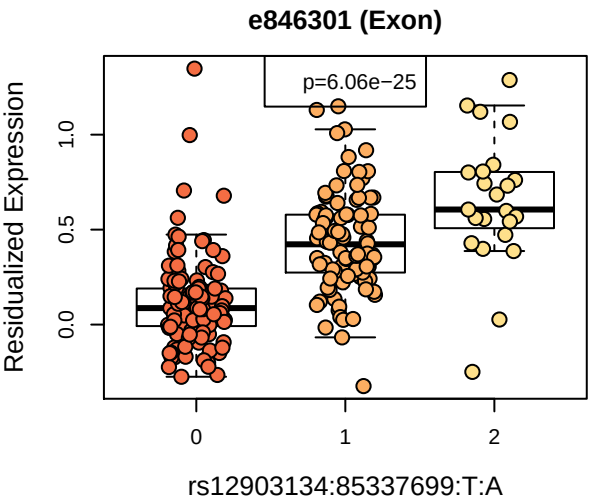
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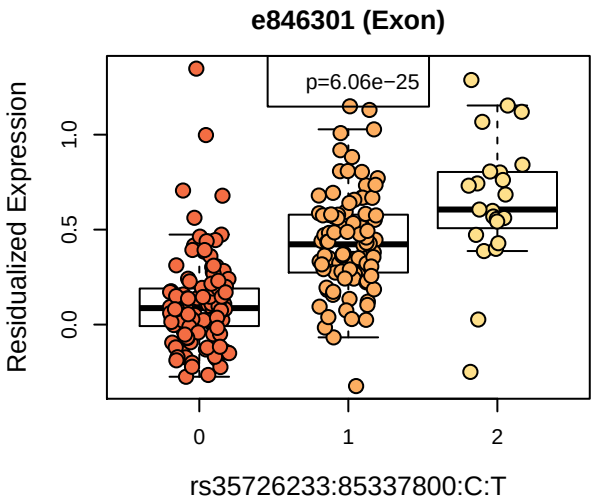
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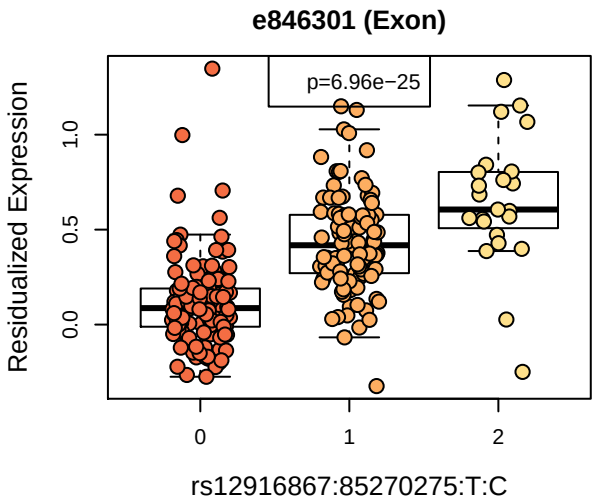
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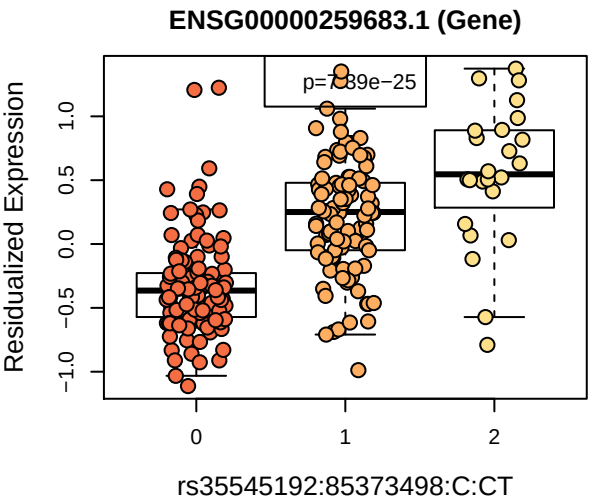
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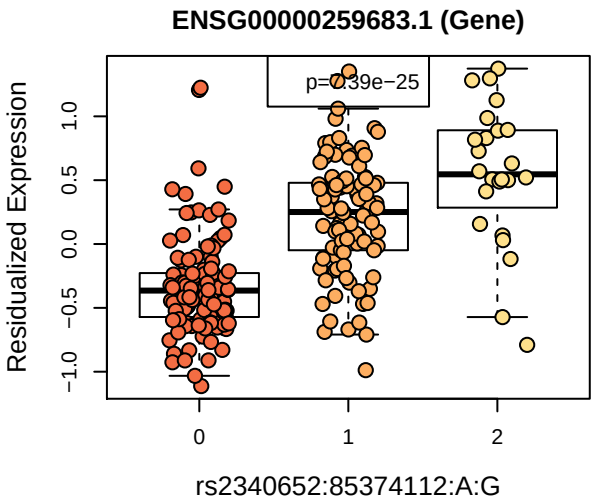
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p=7.39e−25
Residualized Expression
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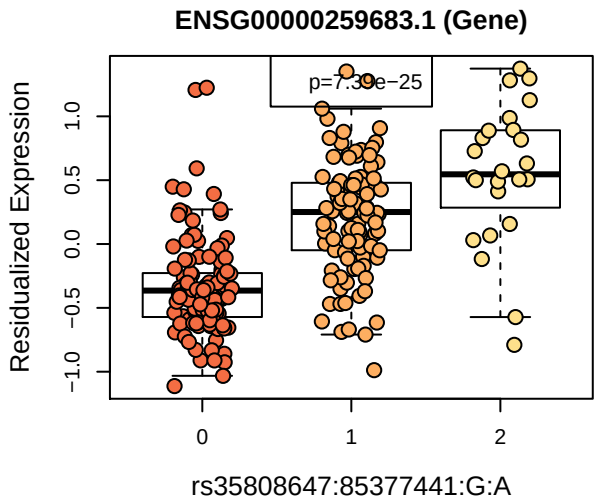
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p=7.39e−25
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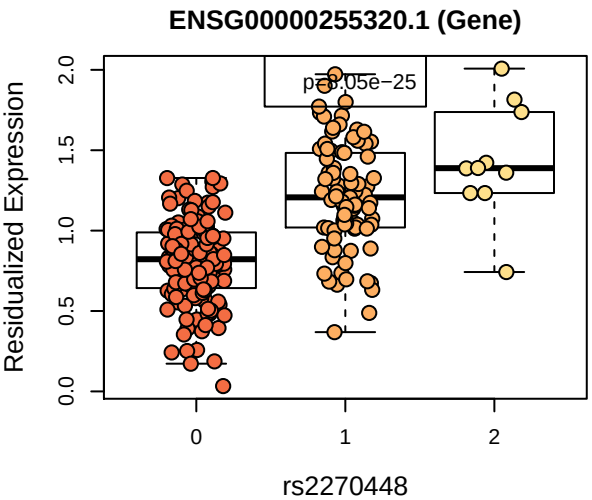
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Residualized Expression
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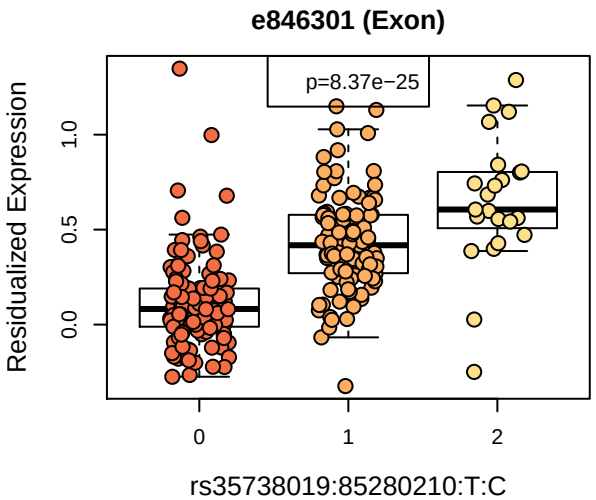
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p=8.37e−25
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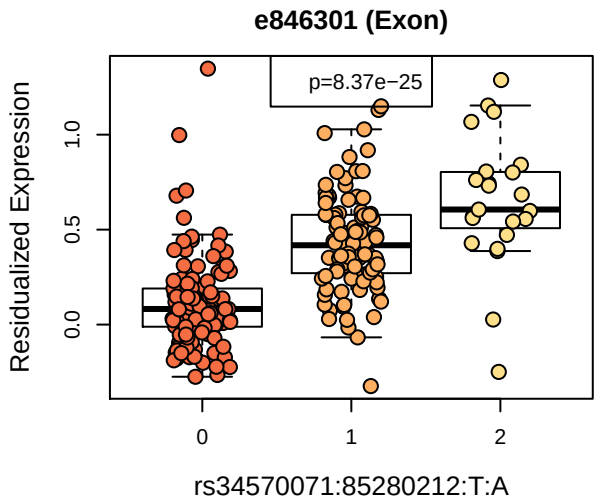
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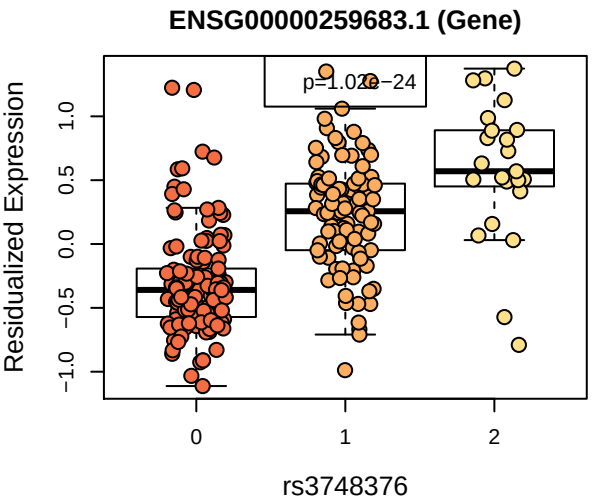
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1
2
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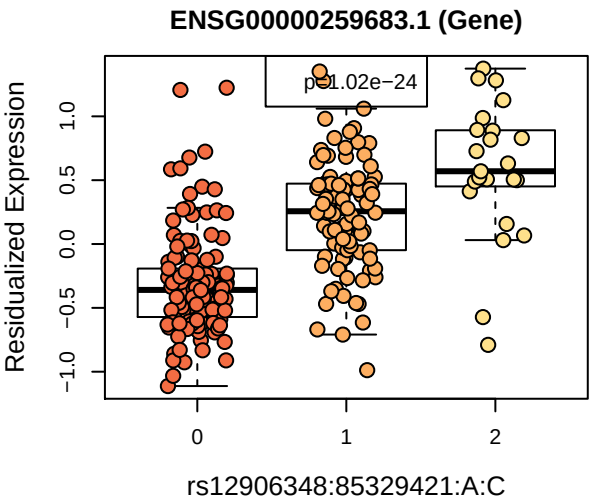
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p=1.02e−24
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−1.0
0
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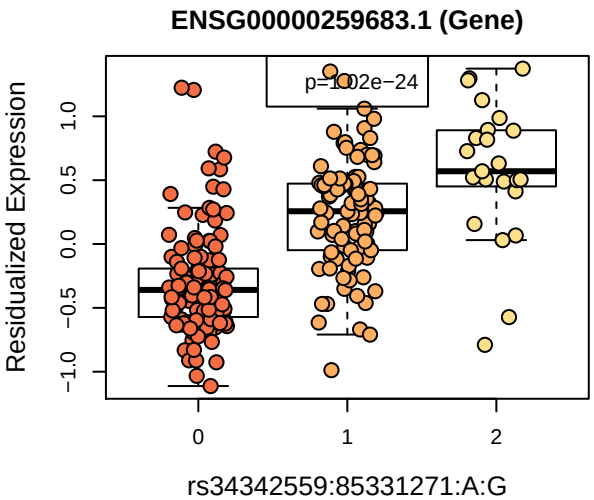
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−1.0
0
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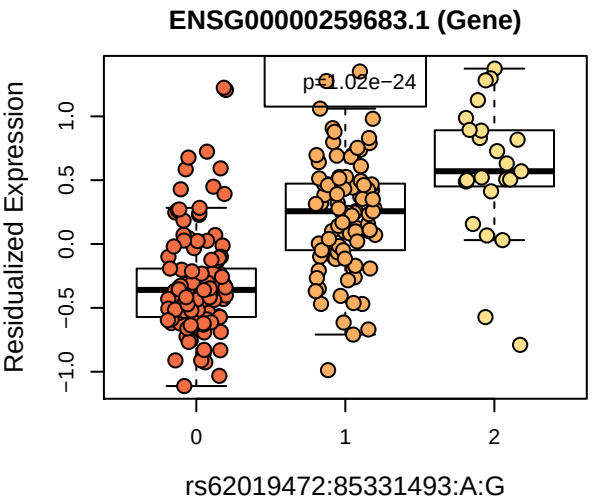
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−0.5
−1.0
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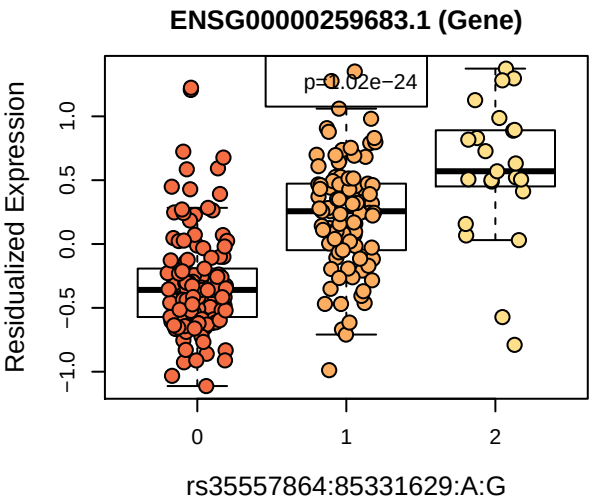
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−0.5
−1.0
0
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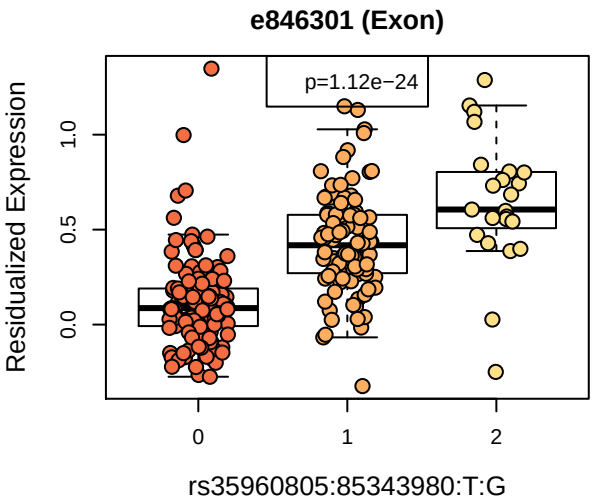
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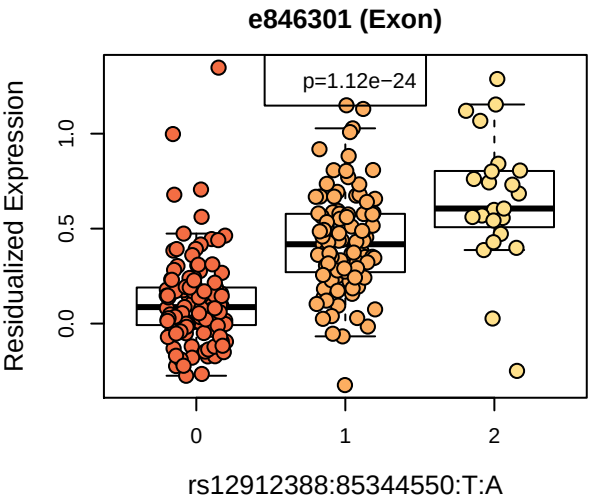
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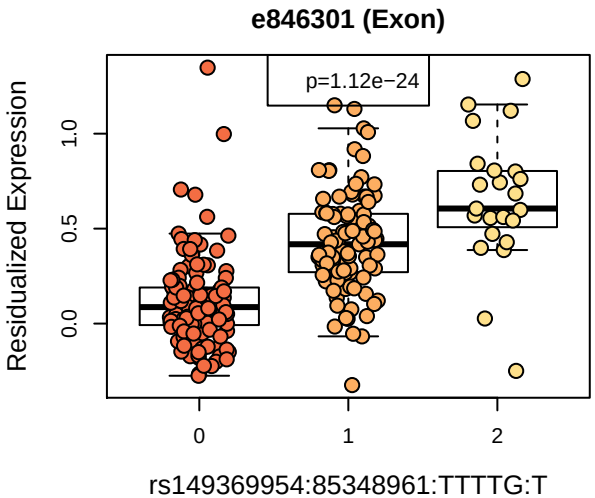
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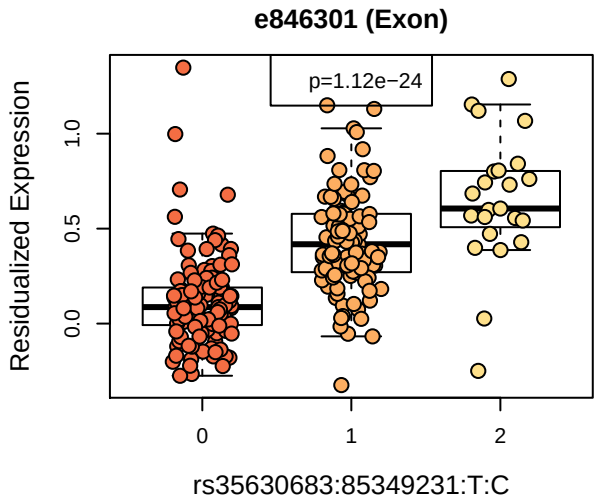
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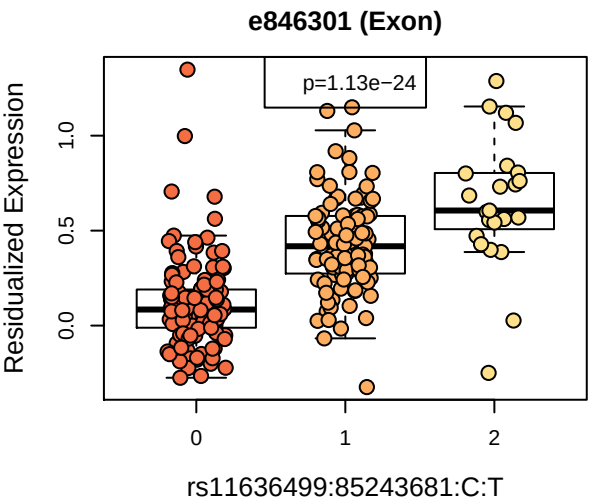
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Residualized Expression
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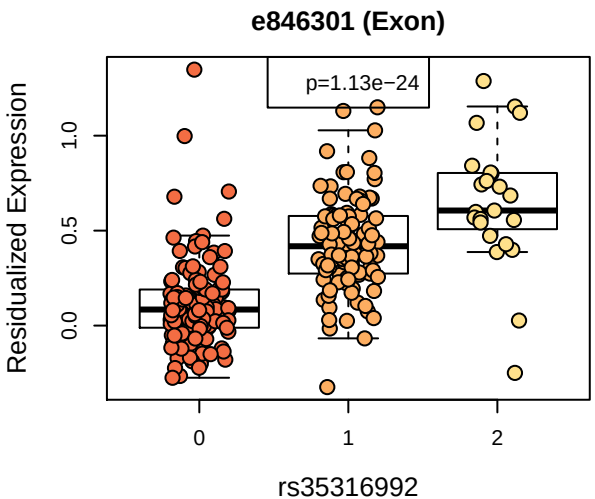
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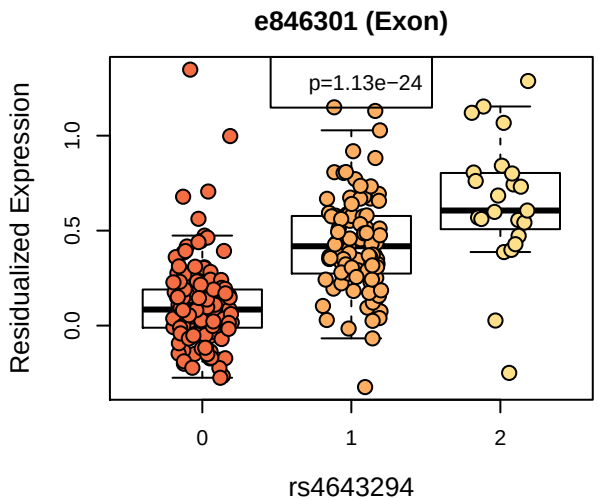
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1
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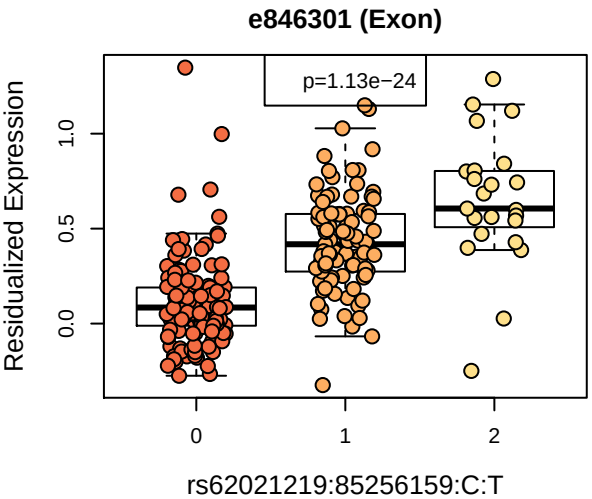
e846301 (Exon)
p=1.13e−24
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0
1
2
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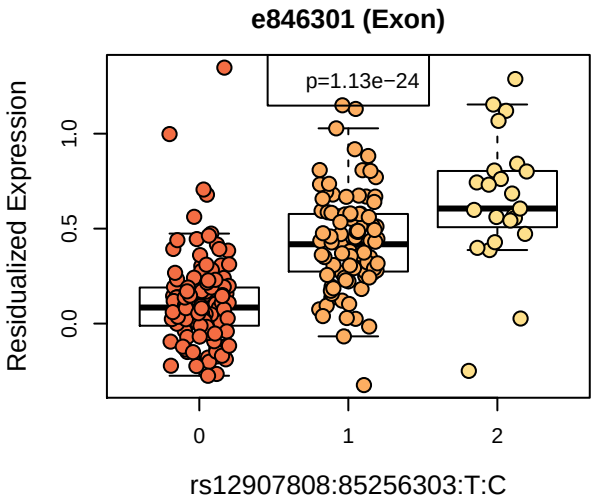
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Residualized Expression
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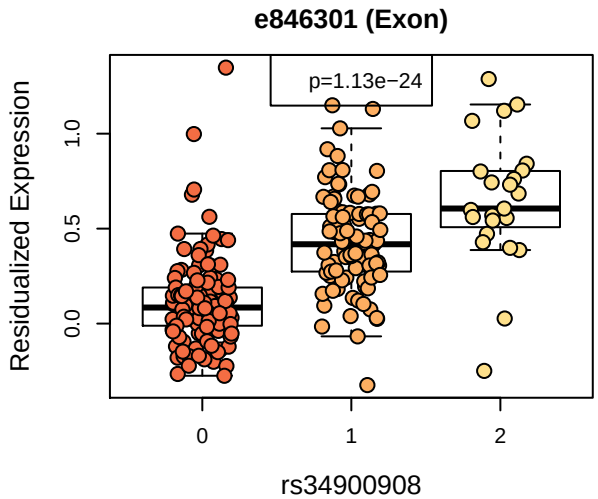
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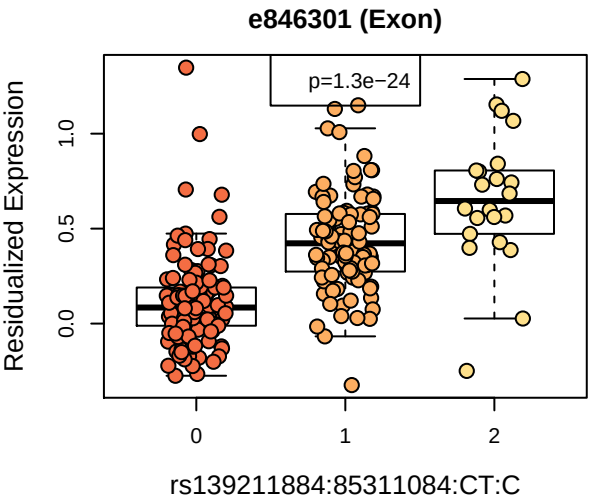
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1
2
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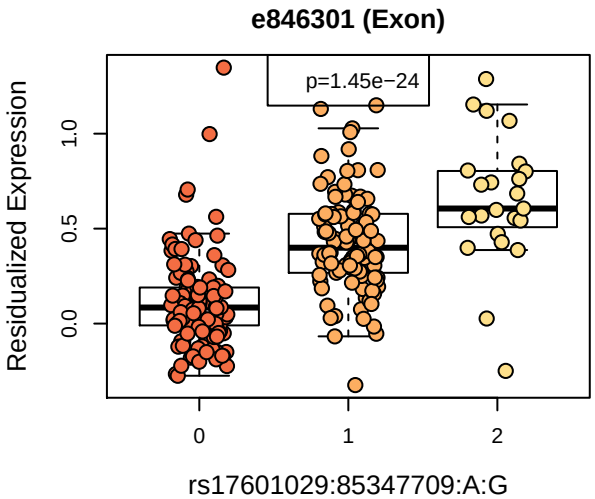
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Residualized Expression
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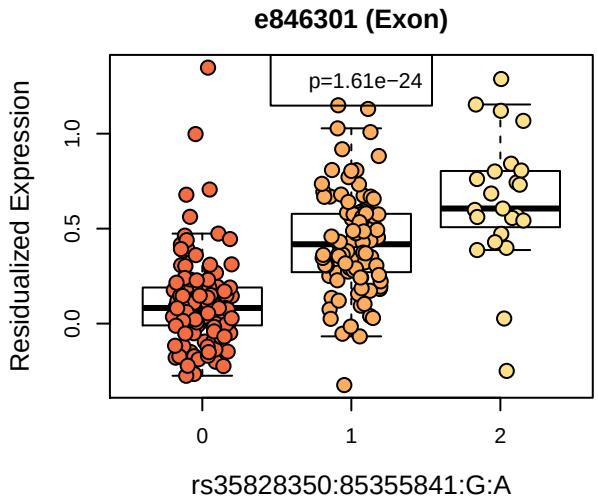
e846301 (Exon)
p=1.61e−24
Residualized Expression
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0
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2
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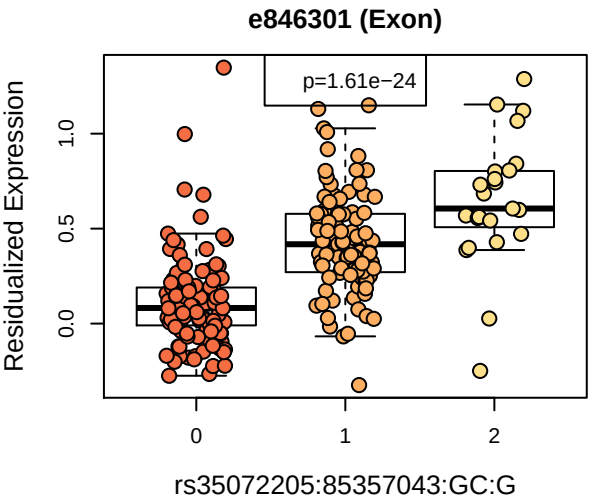
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1
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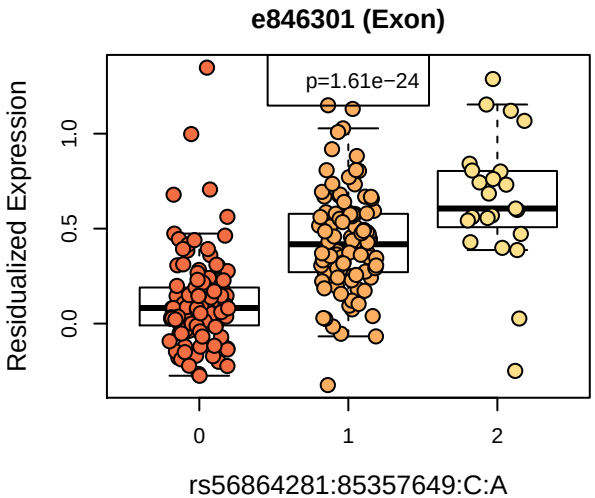
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0
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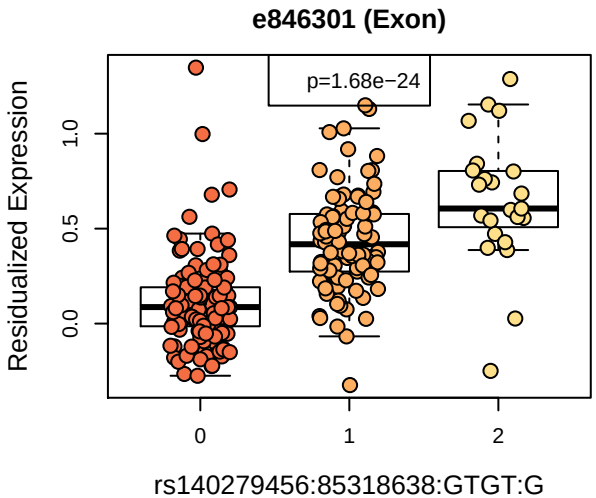
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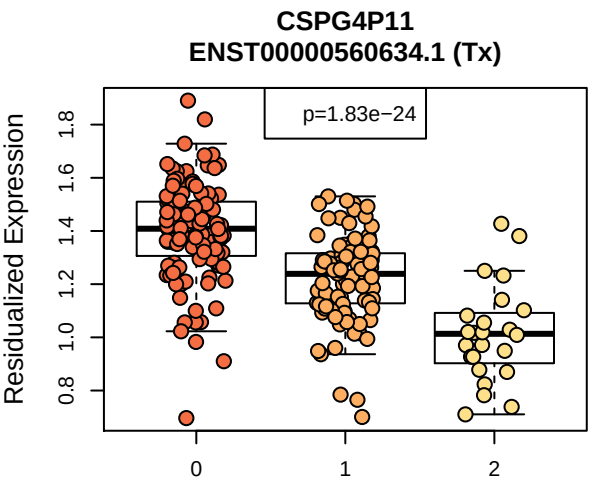
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p=1.83e−24
Residualized Expression
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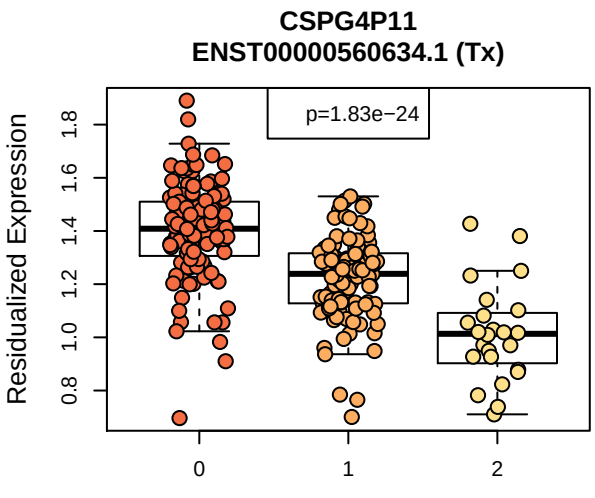
1.2
1.4
1.6
1.8
0
1
2
rs56233902:85215577:C:T


CSPG4P11
ENST00000560634.1 (Tx)
p=1.83e−24
Residualized Expression
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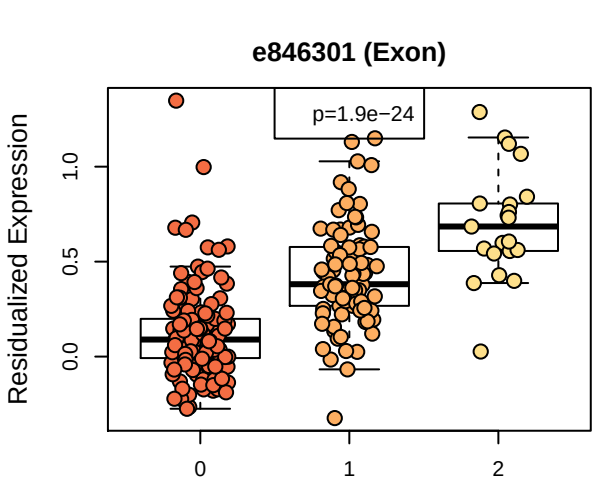
1.0
1.2
1.4
1.6
1.8
0
1
2
rs71453257:85219682:CA:C


e846301 (Exon)
p=1.9e−24
Residualized Expression
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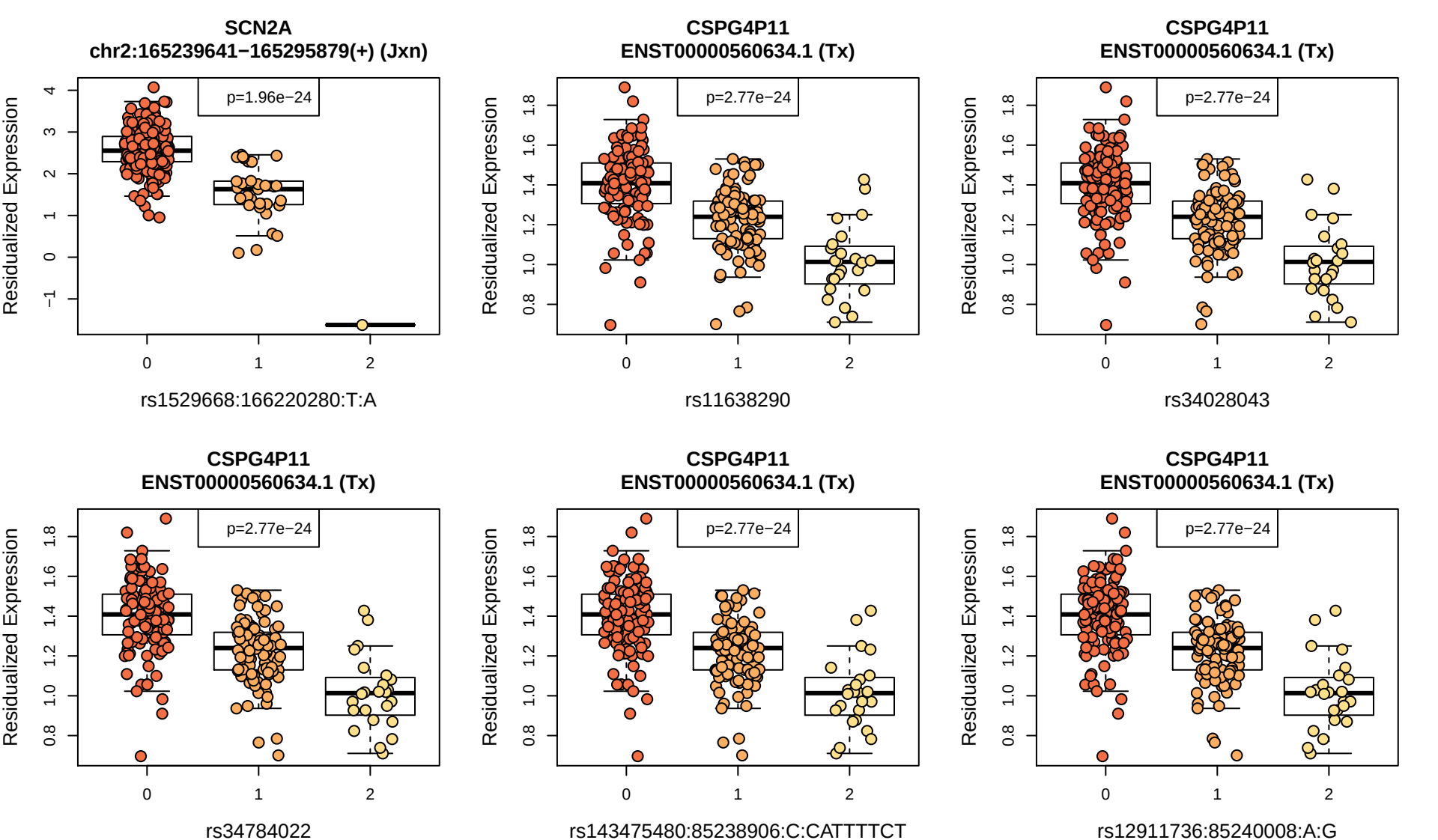
0.5
1.0
0
1
2
rs55841622:85332280:T:A


SCN2A
chr2:165239641−165295879(+) (Jxn)
p=1.96e−24
Residualized Expression
rs1529668:166220280:T:A
CSPG4P11
ENST00000560634.1 (Tx)
p=2.77e−24
Residualized Expression
rs11638290
CSPG4P11
ENST00000560634.1 (Tx)
p=2.77e−24
Residualized Expression
rs34028043
CSPG4P11
ENST00000560634.1 (Tx)
p=2.77e−24
Residualized Expression
rs34784022
CSPG4P11
ENST00000560634.1 (Tx)
p=2.77e−24
Residualized Expression
rs143475480:85238906:C:CATTTTCT
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ENST00000560634.1 (Tx)
p=2.77e−24
Residualized Expression
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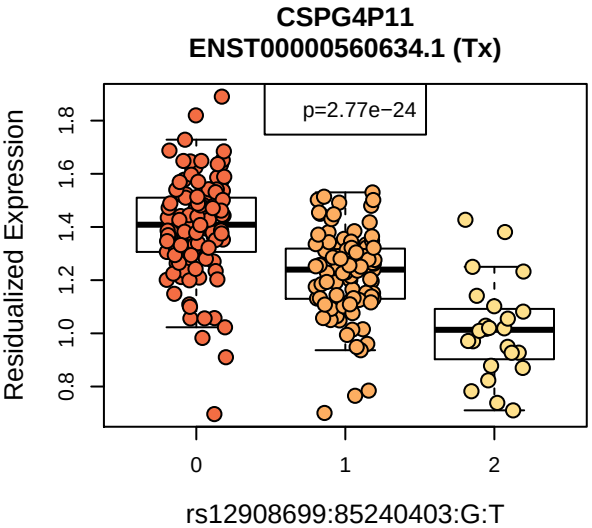
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ENST00000560634.1 (Tx)
p=2.77e−24
Residualized Expression
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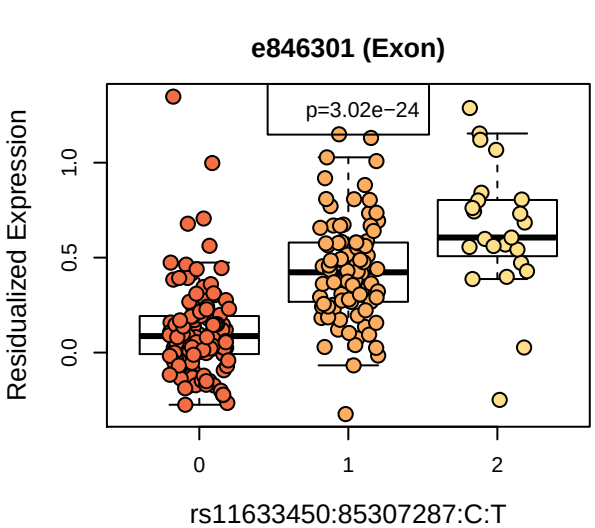
1.0
1.2
1.4
1.6
1.8
0
1
2
rs12908699:85240403:G:T


e846301 (Exon)
p=3.02e−24
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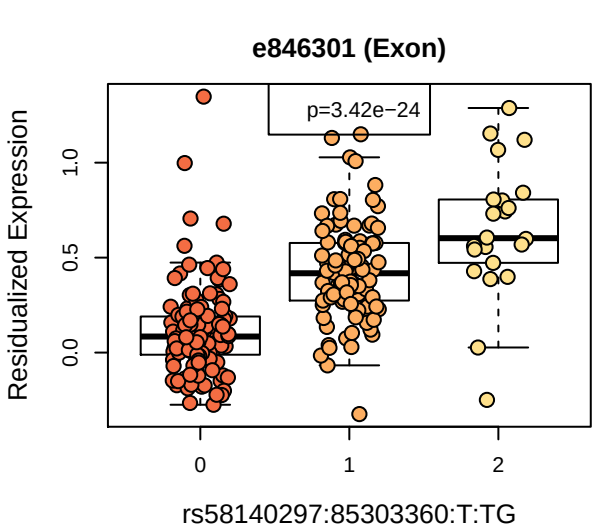
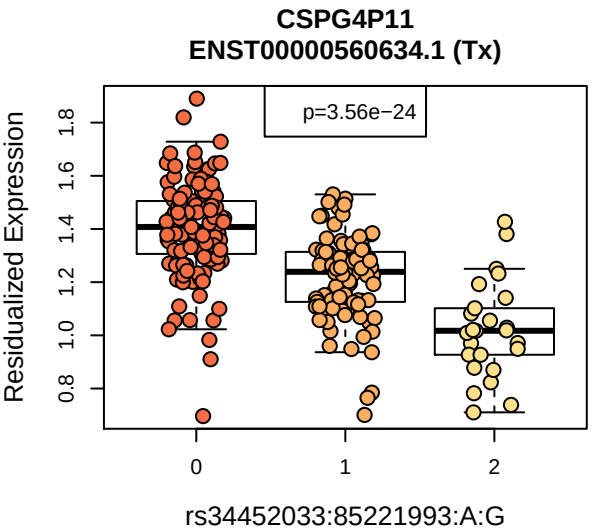
0.5
1.0
0
1
2
rs11633450:85307287:C:T


e846301 (Exon)
p=3.42e−24
Residualized Expression
0.0
0.5
1.0
0
1
2
rs58140297:85303360:T:TG


CSPG4P11
ENST00000560634.1 (Tx)
p=3.56e−24
Residualized Expression
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1.0
1.2
1.4
1.6
1.8
0
1
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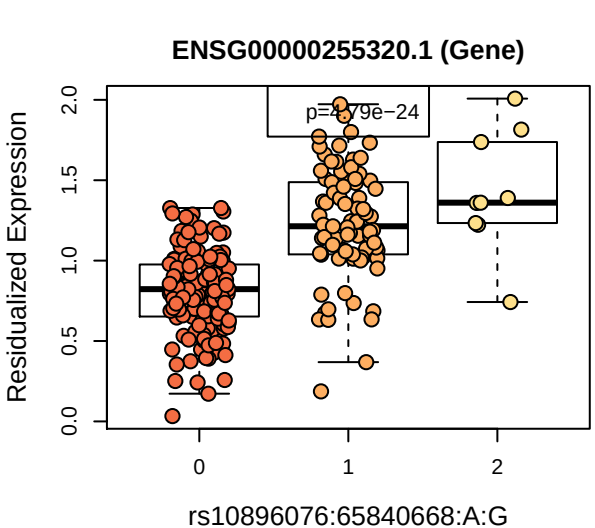
rs34452033:85221993:A:G


ENSG00000255320.1 (Gene)
p=4.79e−24
Residualized Expression
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0.5
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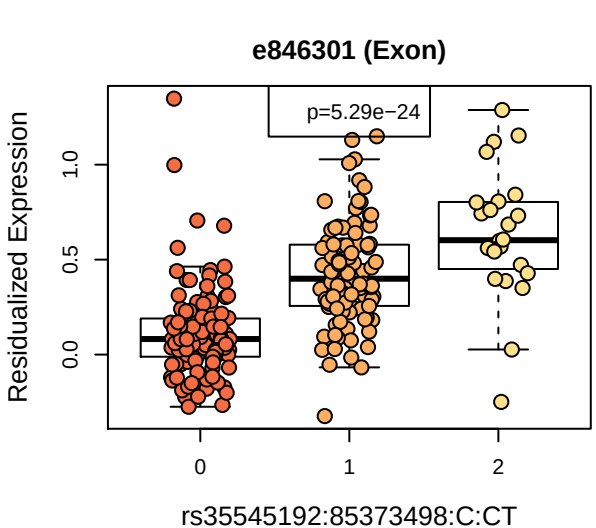
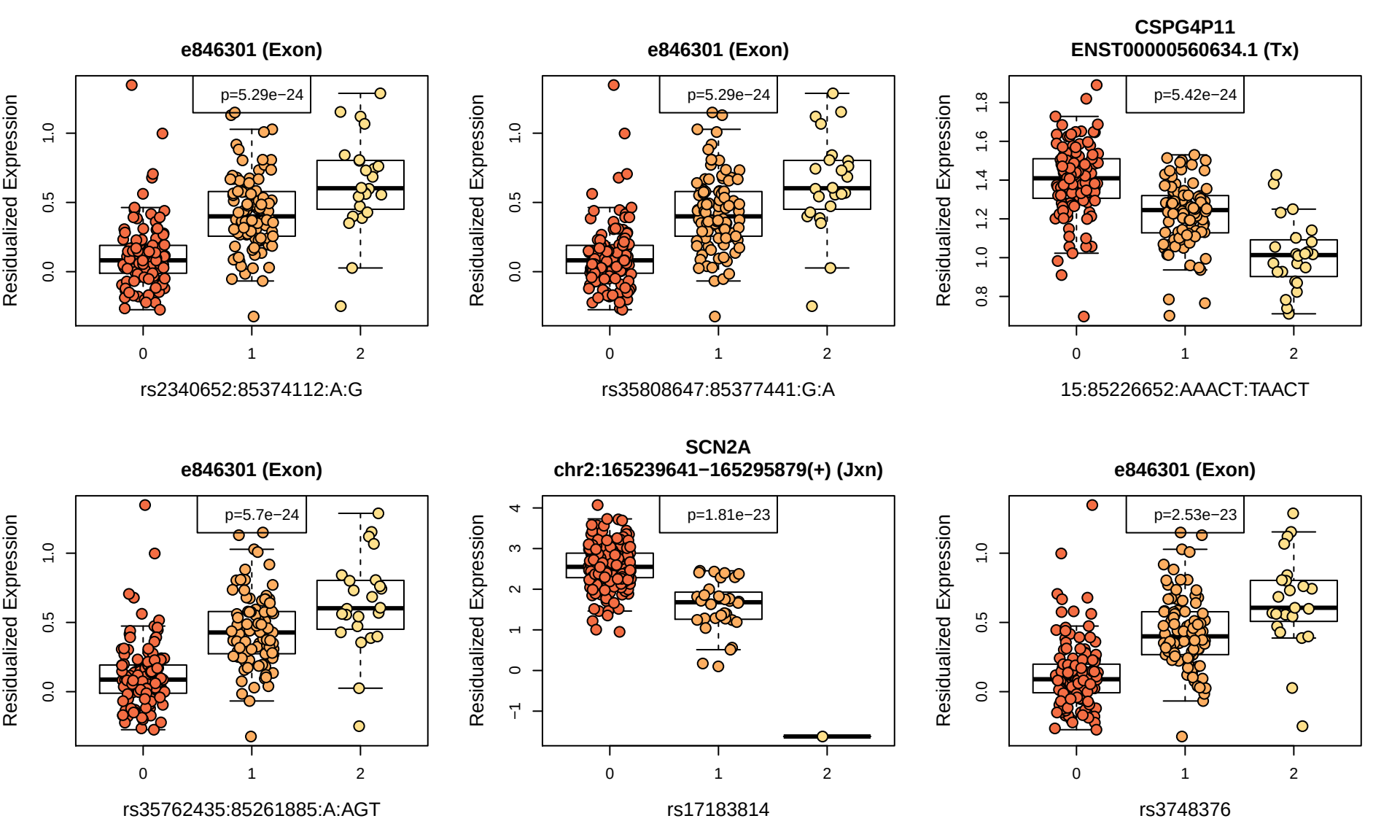
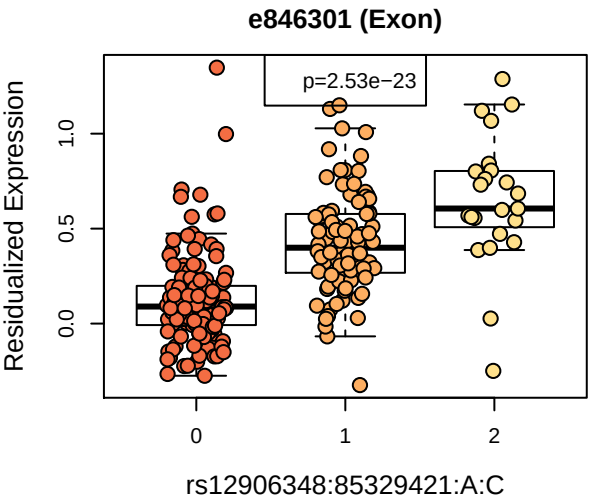
1.5
2.0
0
1
2
rs10896076:65840668:A:G


e846301 (Exon)
p=5.29e−24
Residualized Expression
0.0
0.5
1.0
0
1
2
rs35545192:85373498:C:CT


e846301 (Exon)
p=5.29e−24
Residualized Expression
rs2340652:85374112:A:G
e846301 (Exon)
p=5.29e−24
Residualized Expression
rs35808647:85377441:G:A
CSPG4P11
ENST00000560634.1 (Tx)
p=5.42e−24
Residualized Expression
15:85226652:AAACT:TAACT
e846301 (Exon)
p=5.7e−24
Residualized Expression
rs35762435:85261885:A:AGT
SCN2A
chr2:165239641−165295879(+) (Jxn)
p=1.81e−23
Residualized Expression
rs17183814
e846301 (Exon)
p=2.53e−23
Residualized Expression
rs3748376


e846301 (Exon)
p=2.53e−23
Residualized Expression
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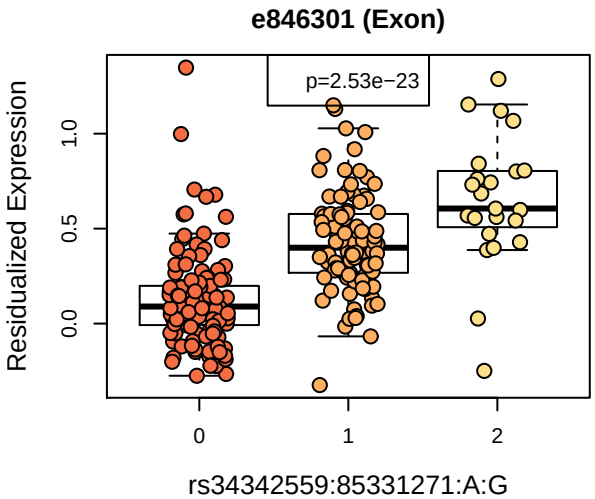
0.5
1.0
0
1
2
rs12906348:85329421:A:C


e846301 (Exon)
p=2.53e−23
Residualized Expression
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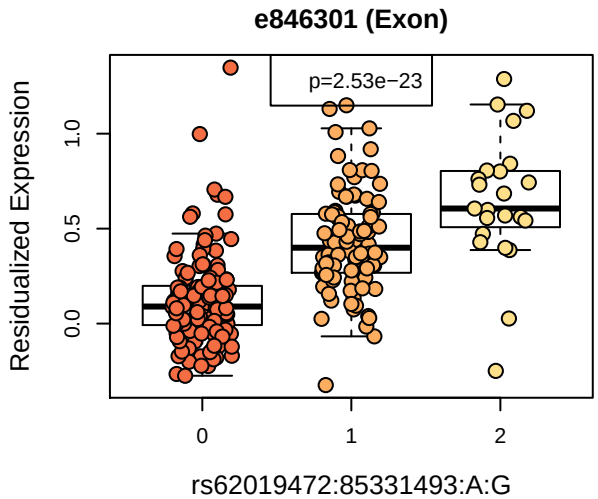
0.5
1.0
0
1
2
rs34342559:85331271:A:G


e846301 (Exon)
p=2.53e−23
Residualized Expression
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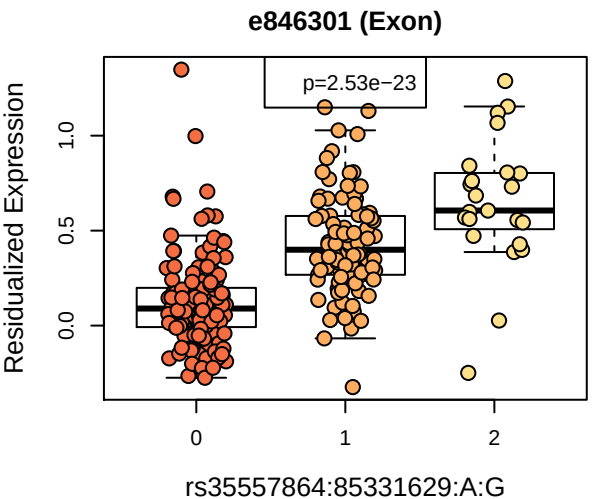
0.5
1.0
0
1
2
rs62019472:85331493:A:G


e846301 (Exon)
p=2.53e−23
Residualized Expression
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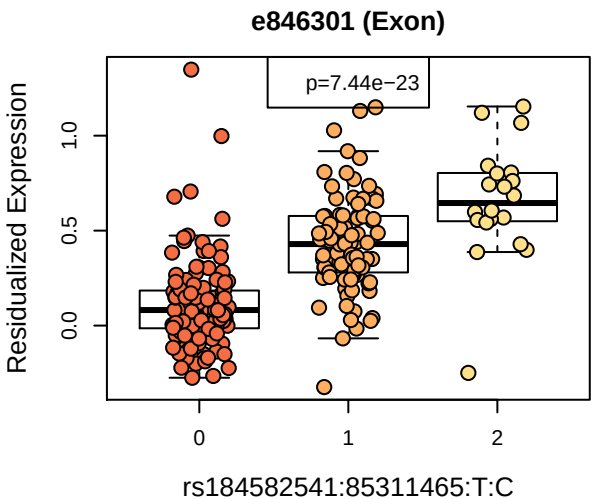
0.5
1.0
0
1
2
rs35557864:85331629:A:G


e846301 (Exon)
p=7.44e−23
Residualized Expression
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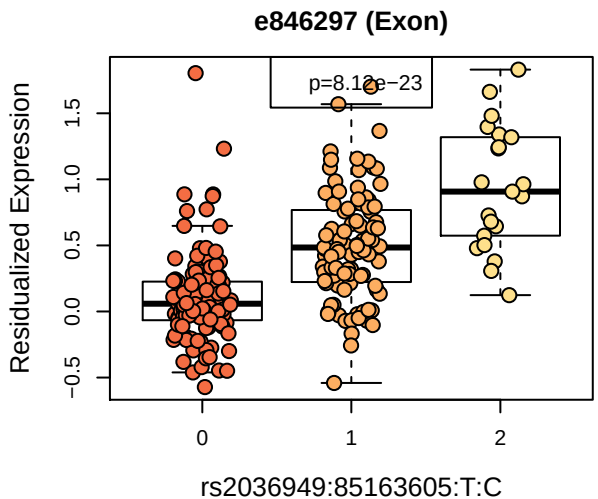
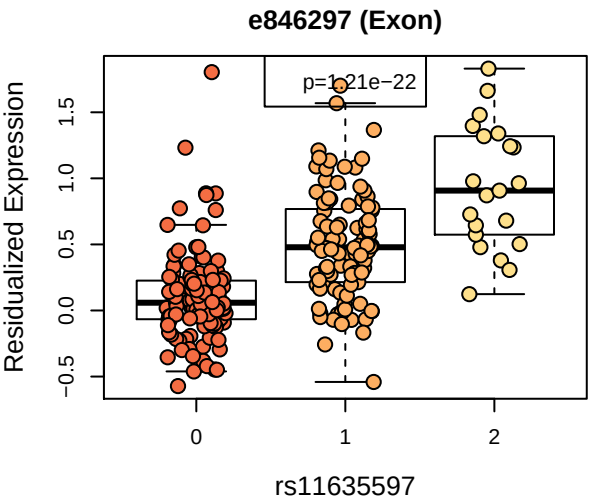
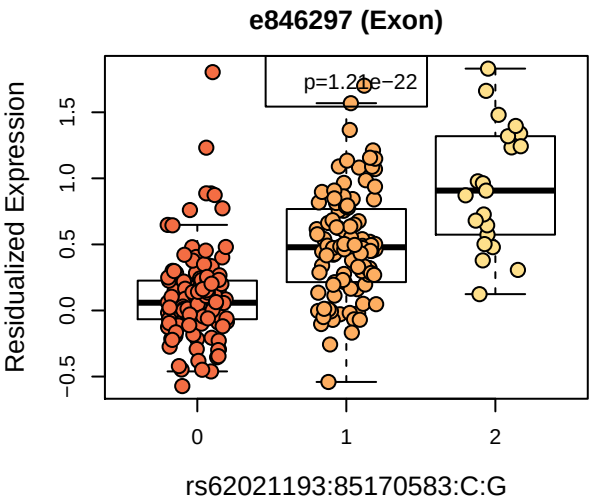
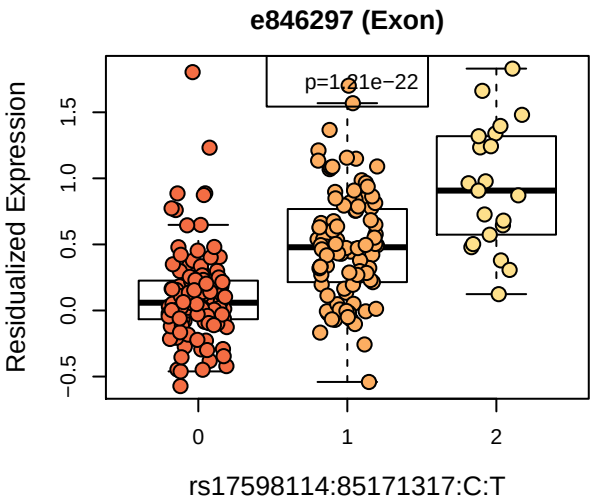
0.5
1.0
0
1
2
rs184582541:85311465:T:C


e846297 (Exon)
p=8.12e−23
Residualized Expression
−0.5
0.0
0.5
1.0
1.5
0
1
2
rs2036949:85163605:T:C


e846297 (Exon)
p=1.21e−22
Residualized Expression
−0.5
0.0
0.5
1.0
1.5
0
1
2
rs11635597


e846297 (Exon)
p=1.21e−22
Residualized Expression
−0.5
0.0
0.5
1.0
1.5
0
1
2
rs62021193:85170583:C:G


e846297 (Exon)
p=1.21e−22
Residualized Expression
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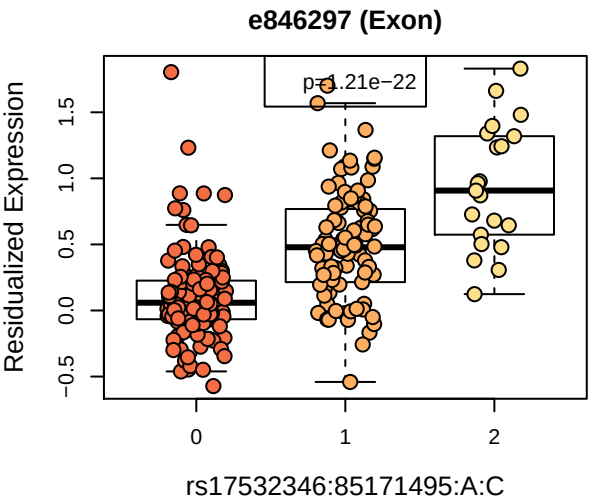
1.0
1.5
0
1
2
rs17598114:85171317:C:T


e846297 (Exon)
p=1.21e−22
Residualized Expression
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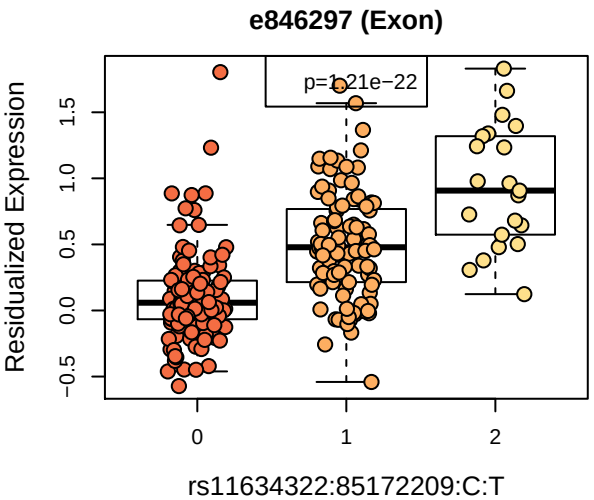
0.0
0.5
1.0
1.5
0
1
2
rs17532346:85171495:A:C


e846297 (Exon)
p=1.21e−22
Residualized Expression
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0.0
0.5
1.0
1.5
0
1
2
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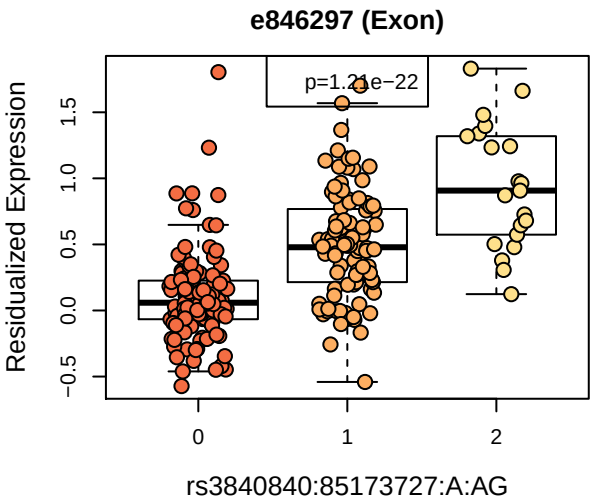
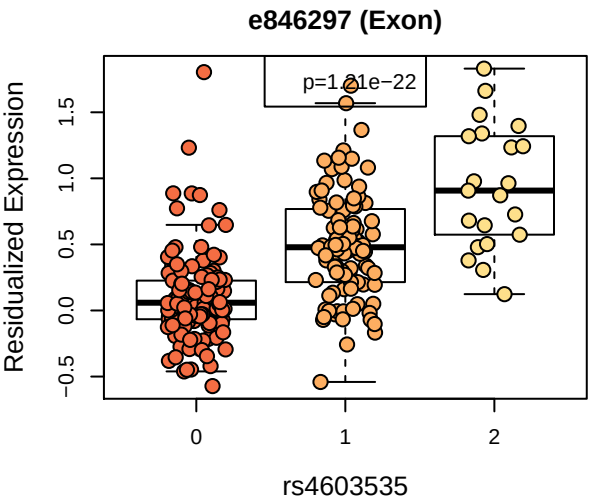
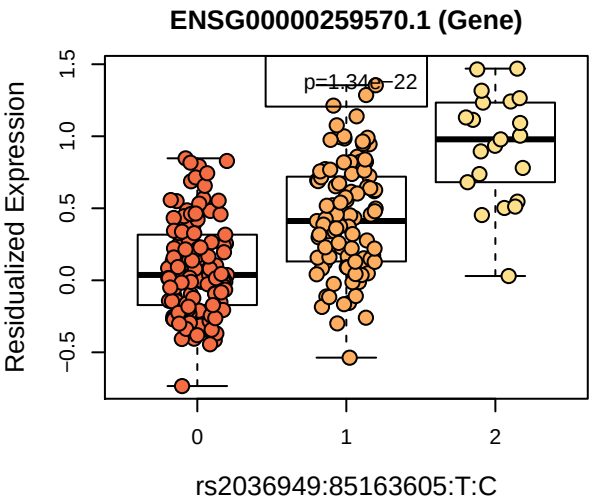
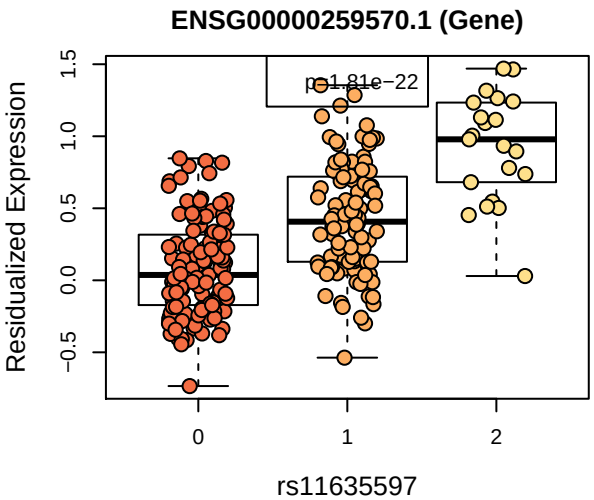
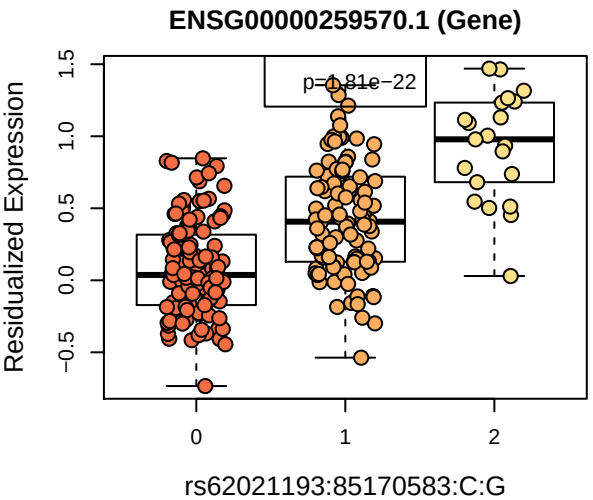
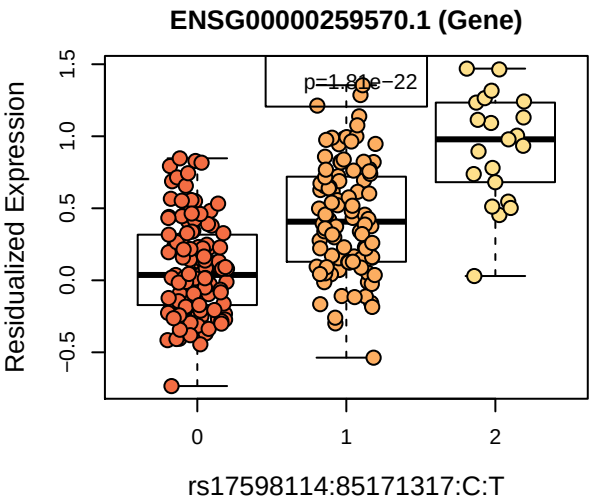

e846297 (Exon)
p=1.21e−22
Residualized Expression
−0.5
0.0
0.5
1.0
1.5
0
1
2
rs3840840:85173727:A:AG


e846297 (Exon)
p=1.81e−22
Residualized Expression
rs4603535


ENSG00000259570.1 (Gene)
p=1.34e−22
Residualized Expression
rs2036949:85163605:T:C


ENSG00000259570.1 (Gene)
p=1.81e−22
Residualized Expression
rs11635597


ENSG00000259570.1 (Gene)
p=1.81e−22
Residualized Expression
rs62021193:85170583:C:G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p=1.81e−22
Residualized Expression
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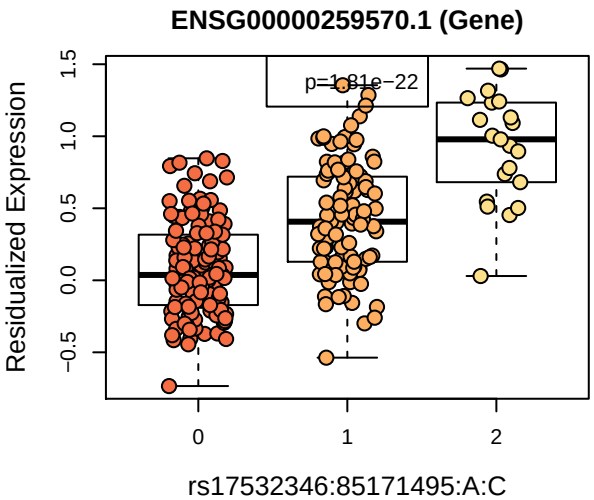
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p=1.81e−22
Residualized Expression
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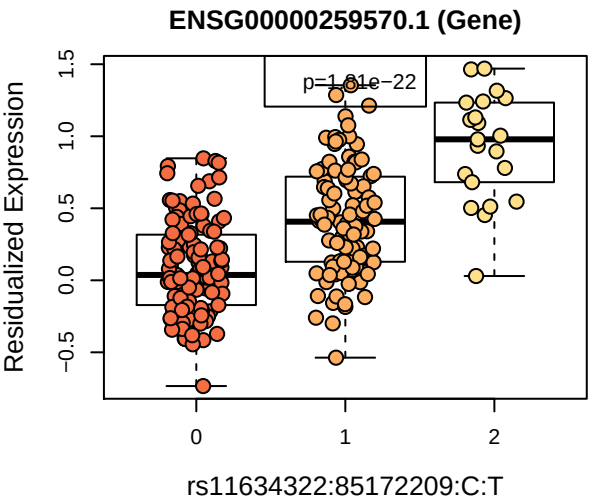
ENSG00000259570.1 (Gene)
p=1.61e−22
Residualized Expression
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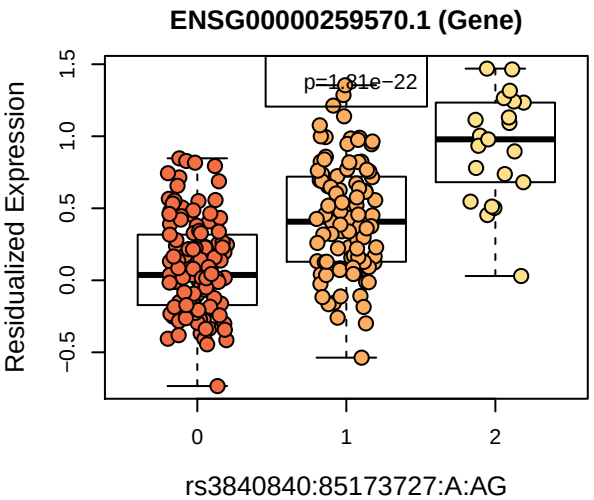
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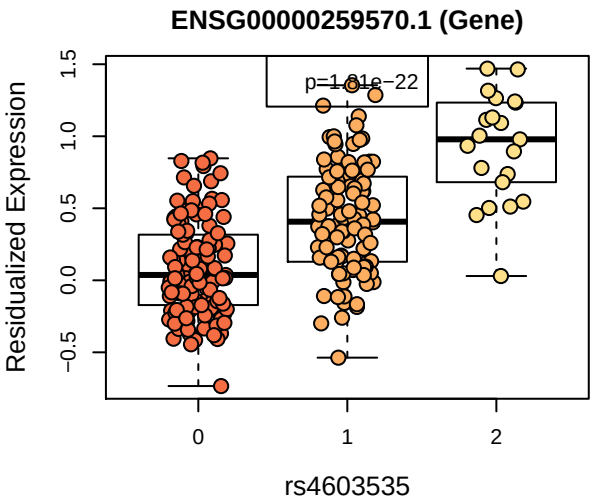
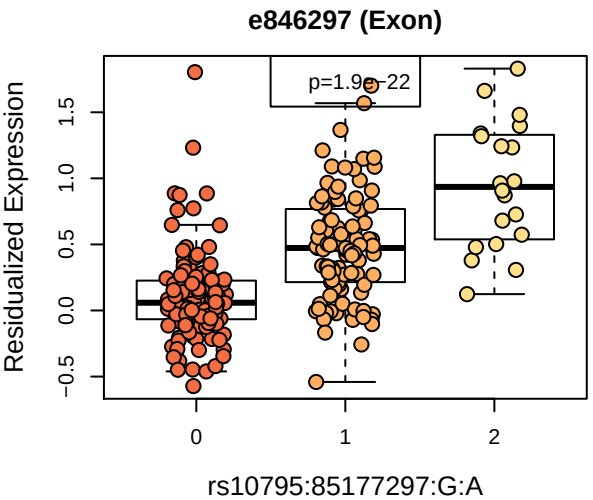
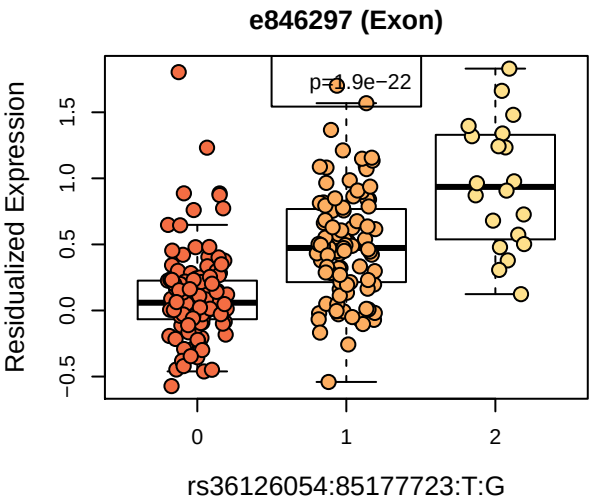
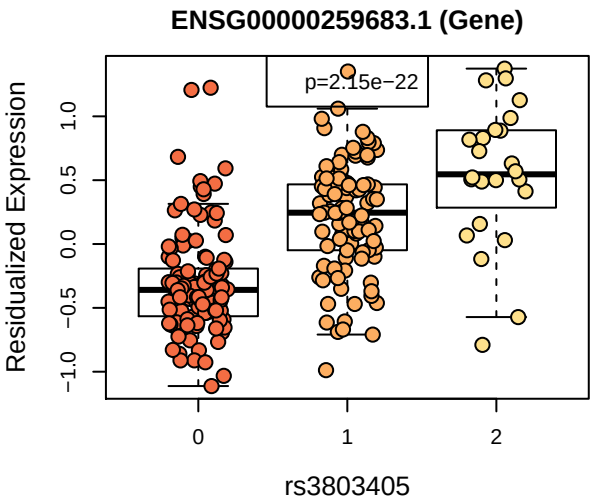
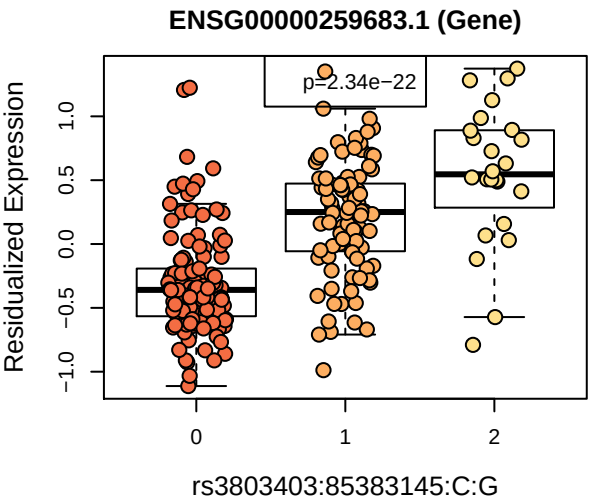
p=1.61e−22
Residualized Expression
rs3840840:85173727:A:AG


ENSG00000259570.1 (Gene)
p=1.61e−22
Residualized Expression
rs4603535


e846297 (Exon)
p=1.9e−22
Residualized Expression
rs10795:85177297:G:A


e846297 (Exon)
p=1.9e−22
Residualized Expression
rs36126054:85177723:T:G


ENSG00000259683.1 (Gene)
p=2.15e−22
Residualized Expression
rs3803405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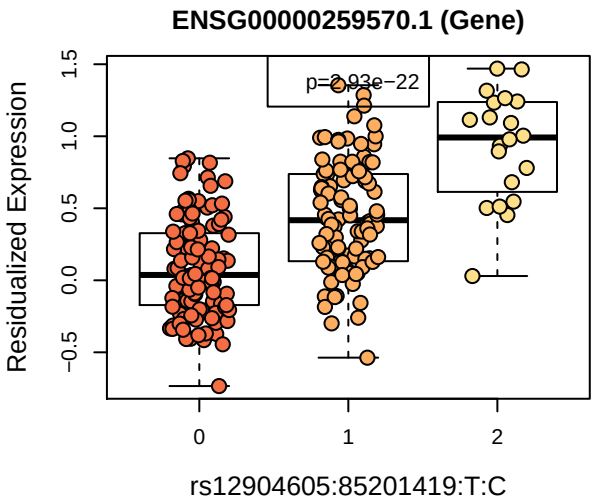
p=2.34e−22
Residualized Expression
rs3803403:85383145:C:G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Residualized Expression
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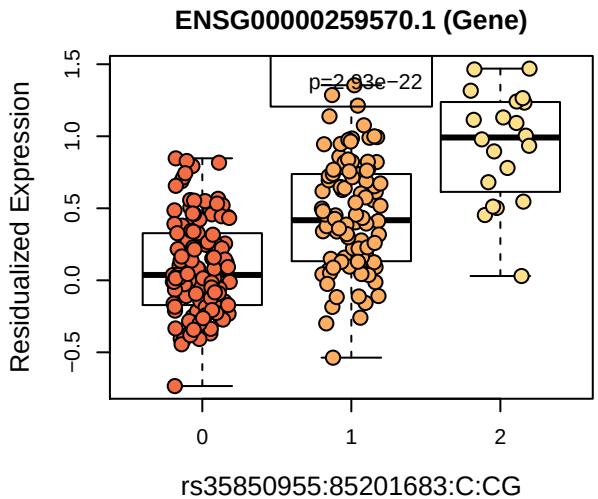
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p=2.93e−22
Residualized Expression
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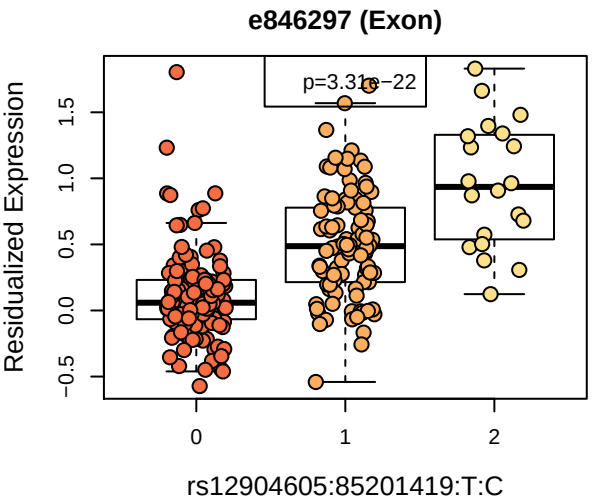
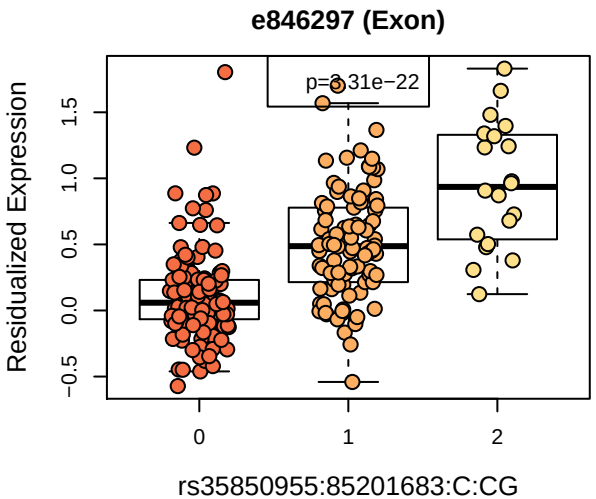

e846297 (Exon)
p=3.31e−22
Residualized Expression
rs12904605:85201419:T:C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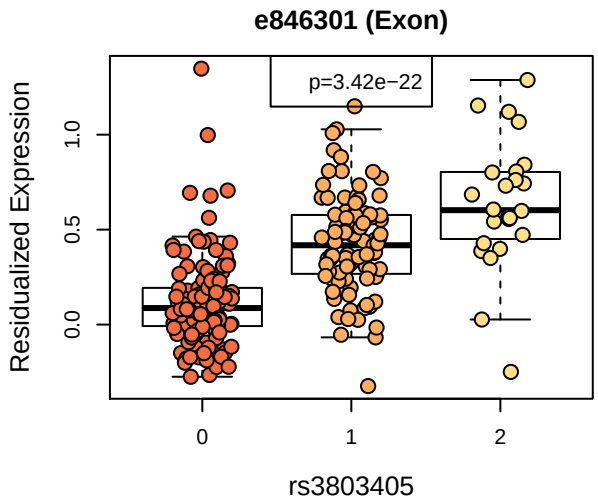
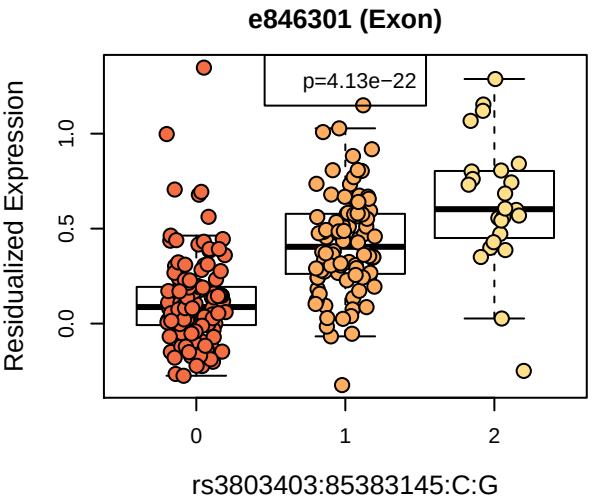
p=3.31e−22
Residualized Expression
rs35850955:85201683:C:CG


e846301 (Exon)
p=3.42e−22
Residualized Expression
rs3803405


e846301 (Exon)
p=4.13e−22
Residualized Expression
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0.5
1.0
0
1
2
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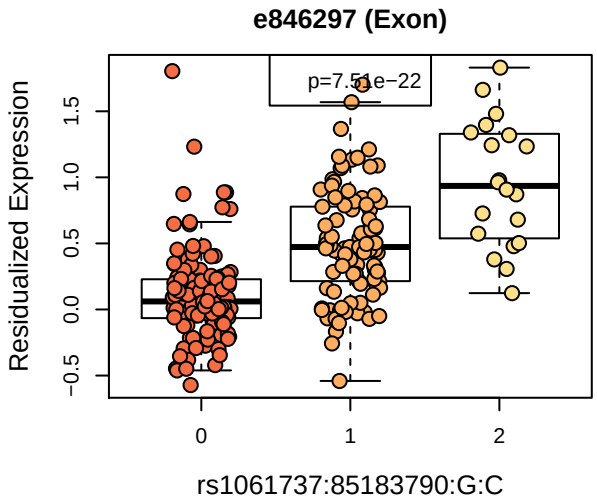
e846297 (Exon)
p=7.51e−22
Residualized Expression
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0.0
0.5
1.0
1.5
0
1
2
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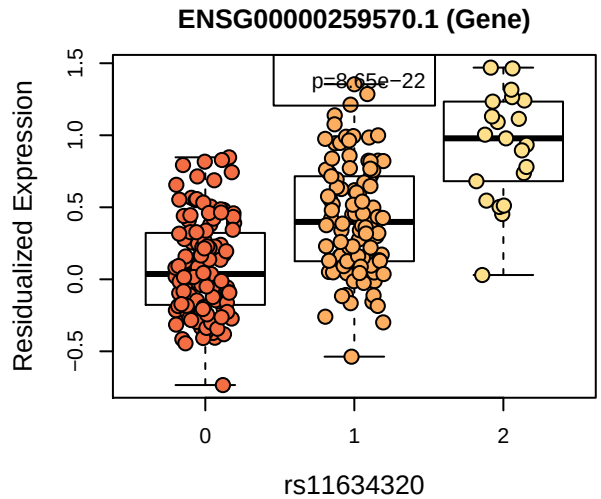
ENSG00000259570.1 (Gene)
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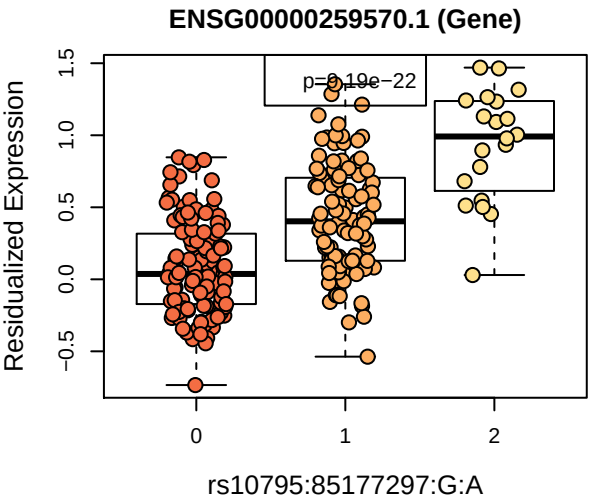
0.5
1.0
1.5
0
1
2
rs11634320


ENSG00000259570.1 (Gene)
p=9.19e−22
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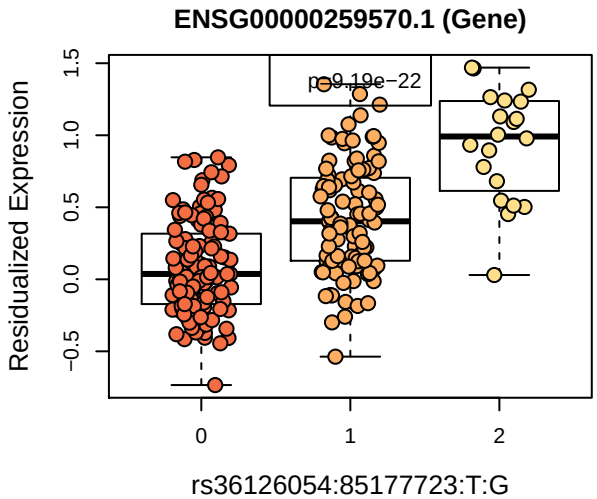
ENSG00000259570.1 (Gene)
p=9.19e−22
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1.0
1.5
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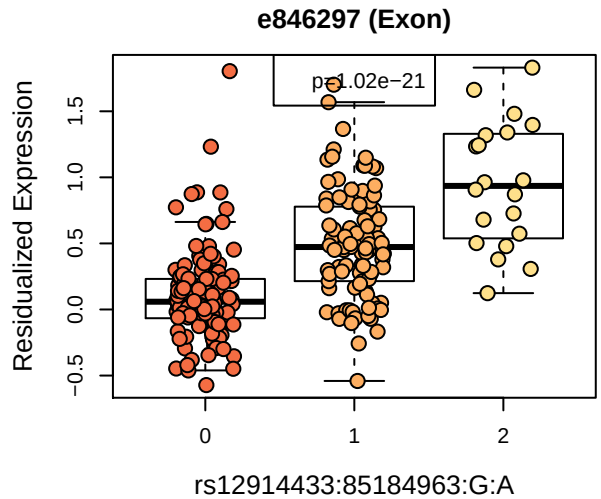
1
2
rs36126054:85177723:T:G


e846297 (Exon)
p=1.02e−21
Residualized Expression
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0.5
1.0
1.5
0
1
2
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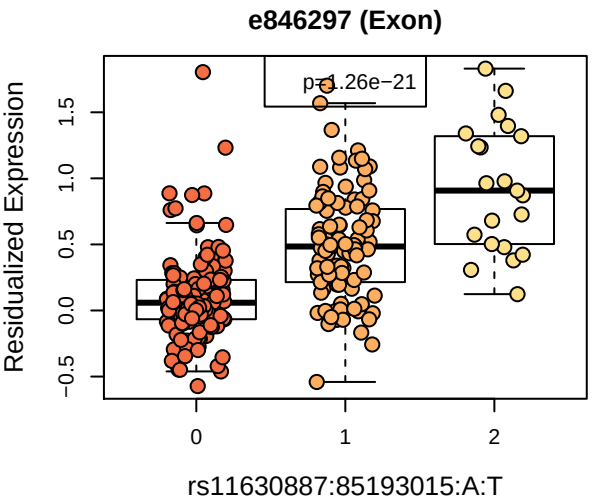
e846297 (Exon)
p=1.26e−21
Residualized Expression
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0.5
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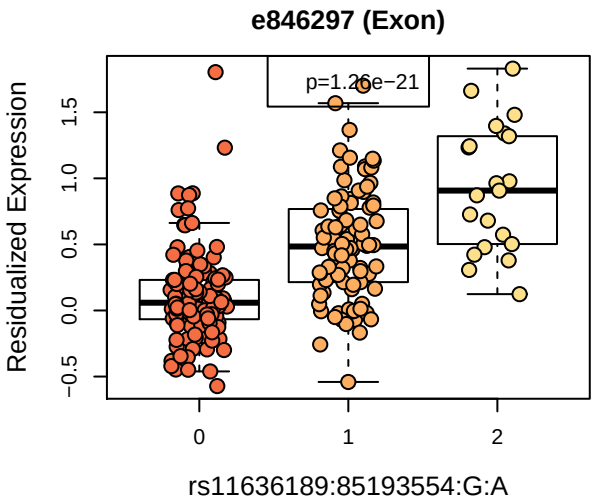
1.5
0
1
2
rs11630887:85193015:A:T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p=1.26e−21
Residualized Expression
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0.5
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0
1
2
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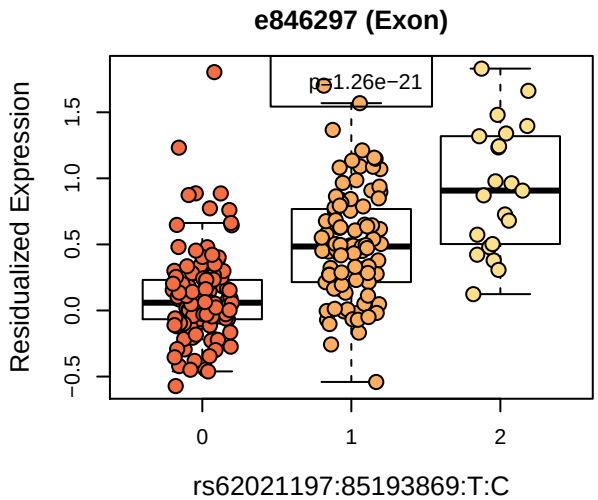
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p=1.26e−21
Residualized Expression
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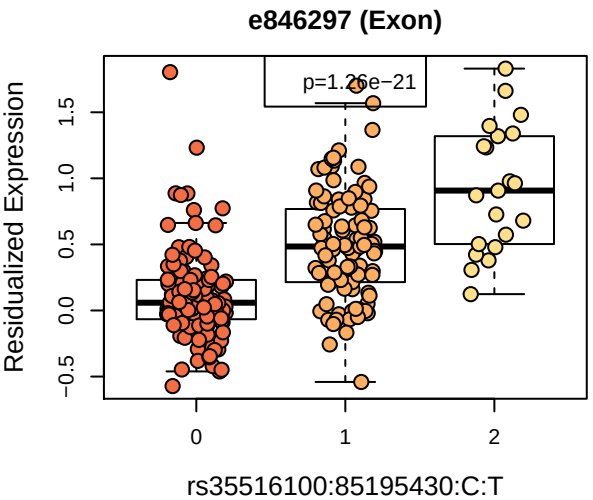
0.5
1.0
1.5
0
1
2
rs62021197:85193869:T:C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p=1.26e−21
Residualized Expression
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0.5
1.0
1.5
0
1
2
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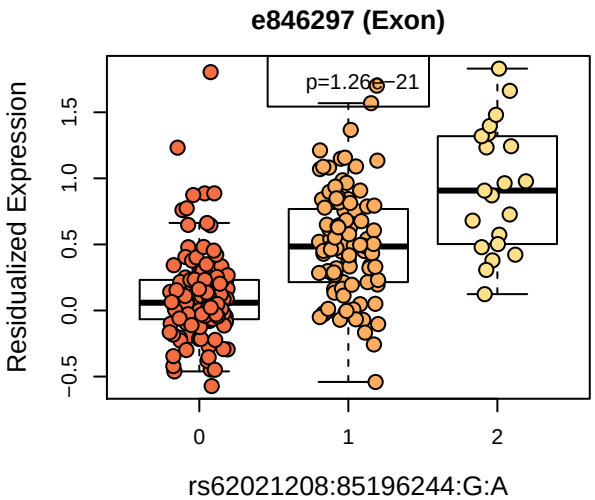
e846297 (Exon)
p=1.26e−21
Residualized Expression
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0.5
1.0
1.5
0
1
2
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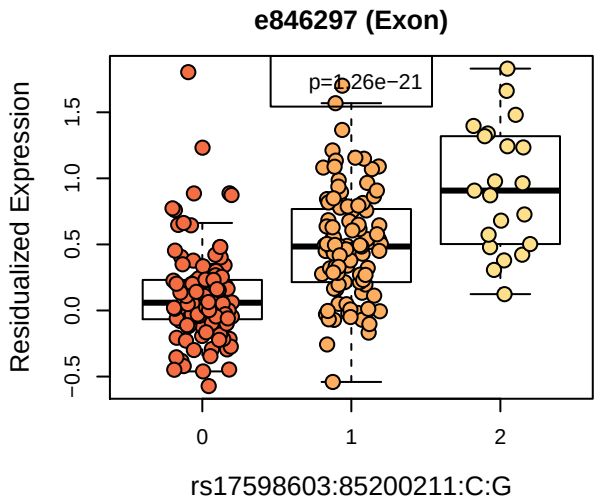
e846297 (Exon)
p=1.26e−21
Residualized Expression
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0.5
1.0
1.5
0
1
2
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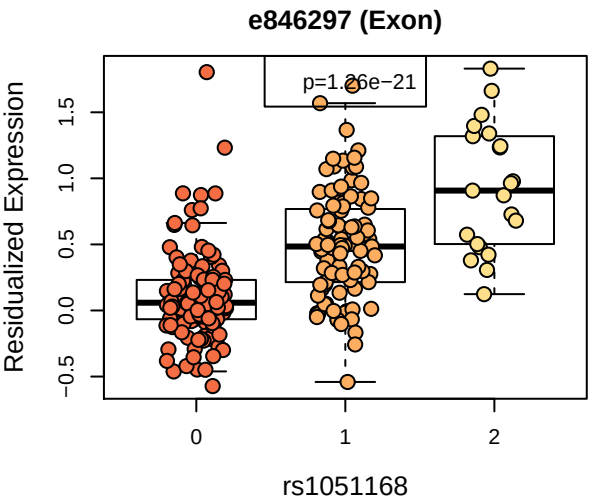
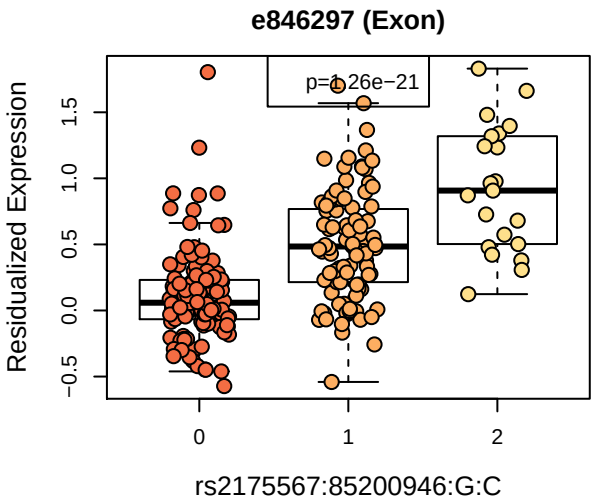

e846297 (Exon)
p=1.26e−21
Residualized Expression
rs1051168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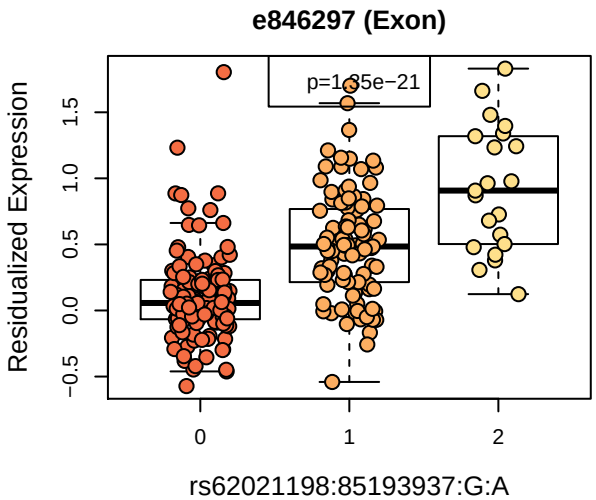
p=1.26e−21
Residualized Expression
rs2175567:85200946:G:C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p=1.35e−21
Residualized Expression
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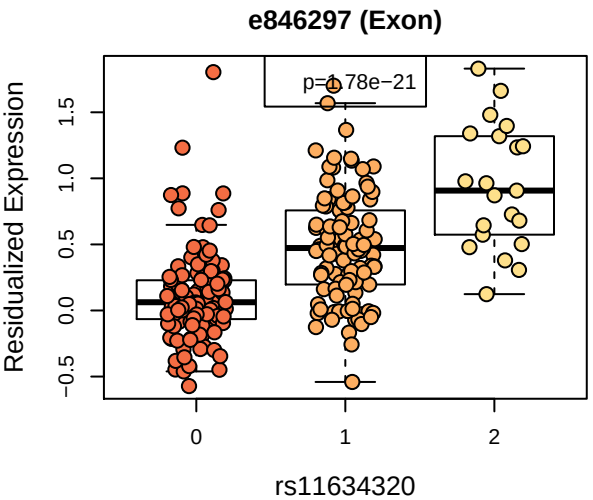
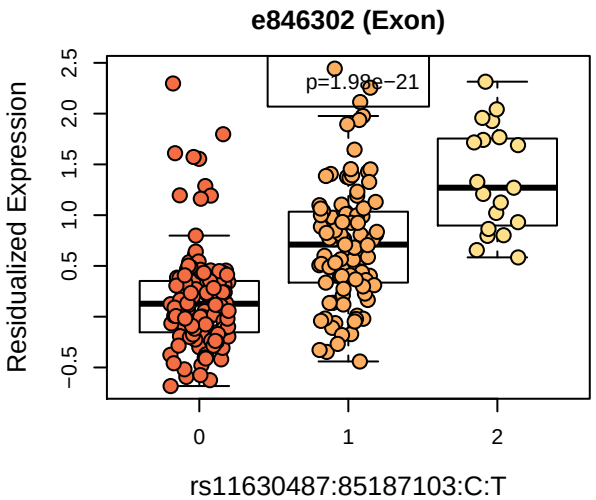

e846297 (Exon)
p=1.78e−21
Residualized Expression
rs11634320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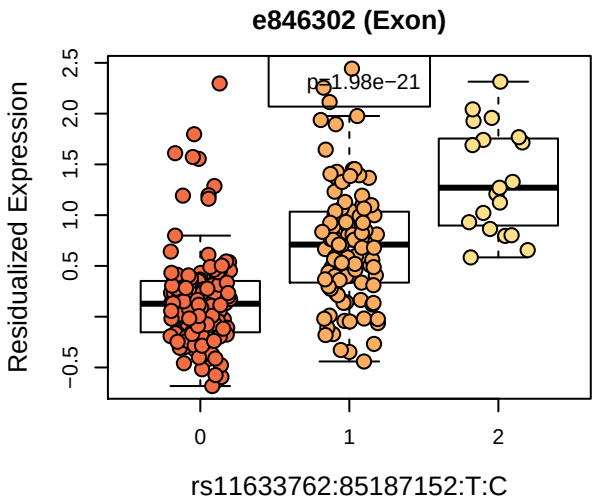
p=1.98e−21
Residualized Expression
rs11630487:85187103:C:T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p=1.98e−21
Residualized Expression
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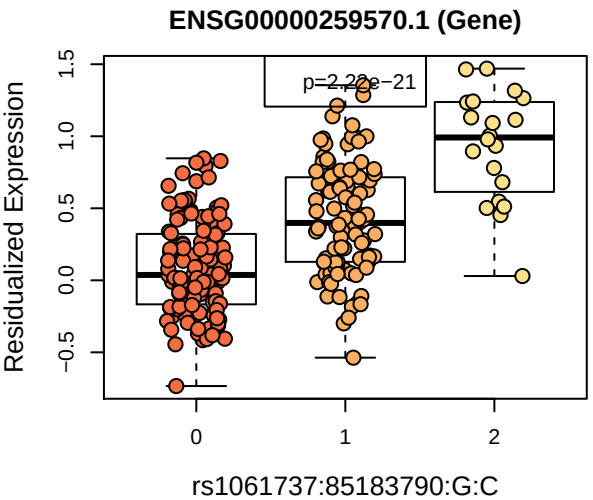
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p=2.22e−21
Residualized Expression
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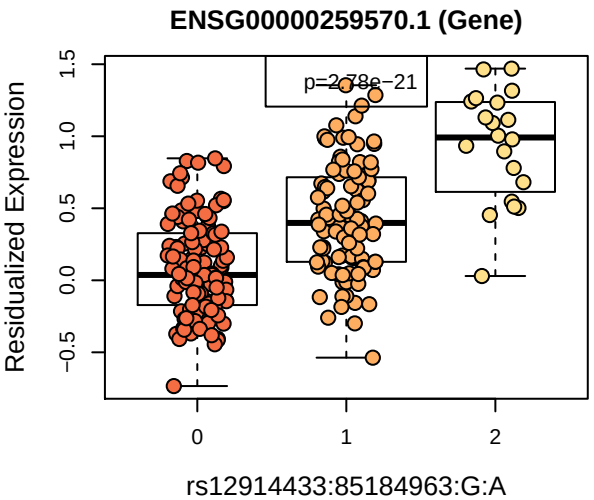
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Residualized Expression
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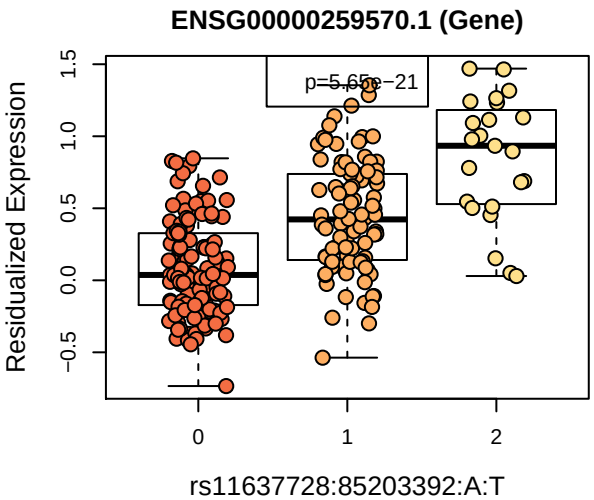
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Residualized Expression
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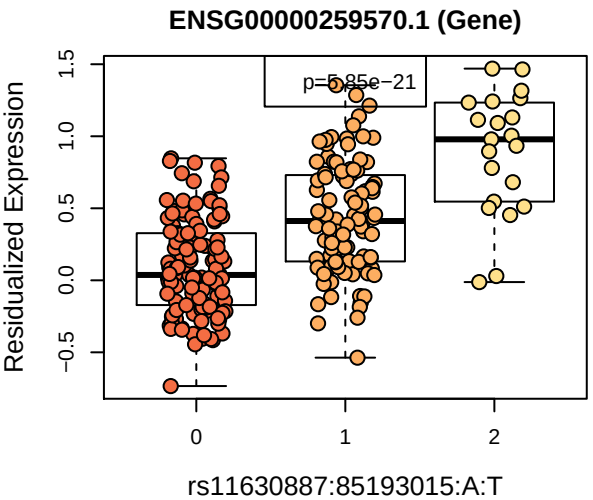
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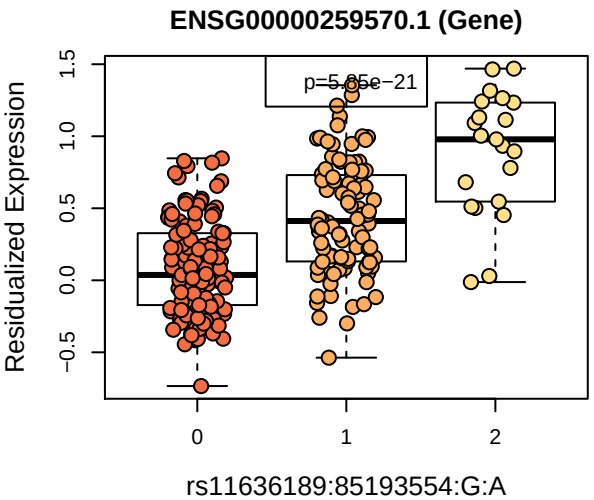
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p=5.85e−21
Residualized Expression
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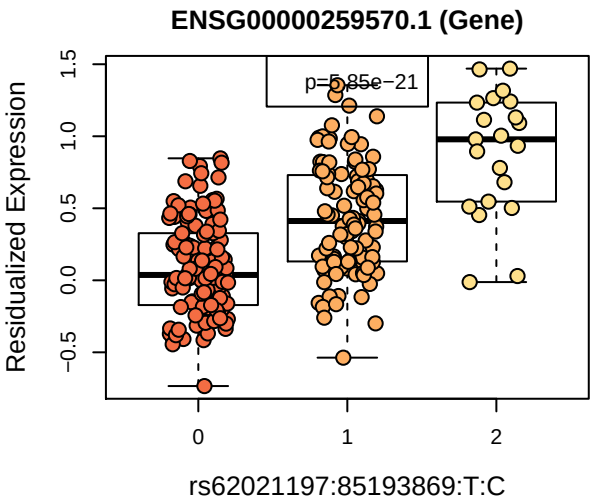
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p=5.85e−21
Residualized Expression
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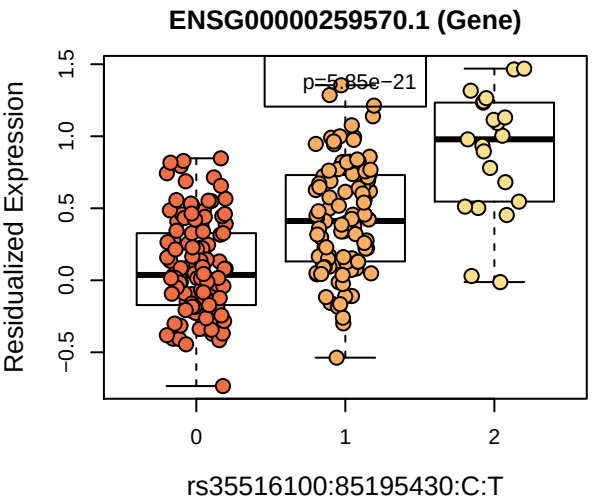
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Residualized Expression
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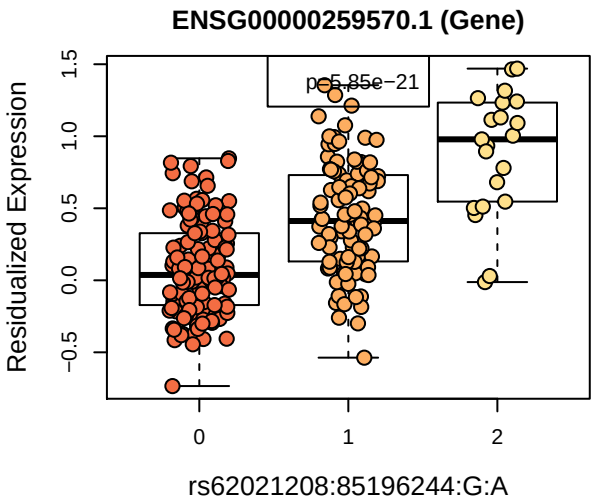
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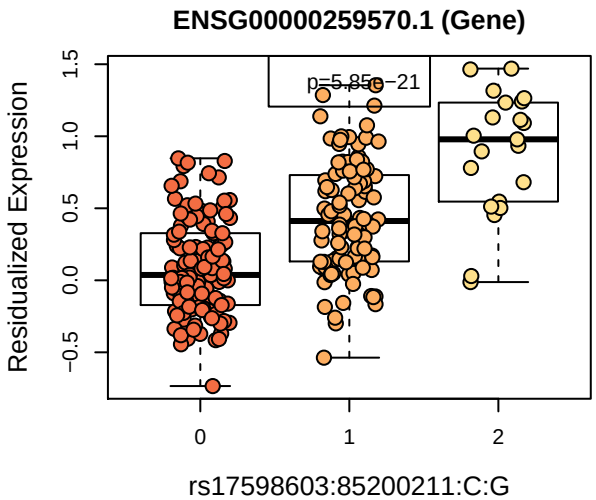
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Residualized Expression
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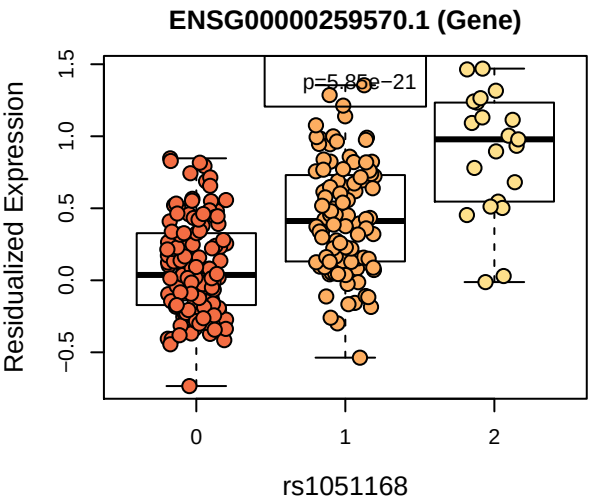
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Residualized Expression
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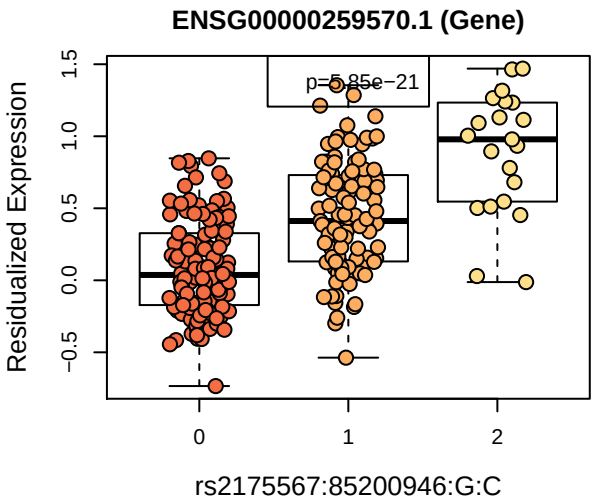
rs1051168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Residualized Expression
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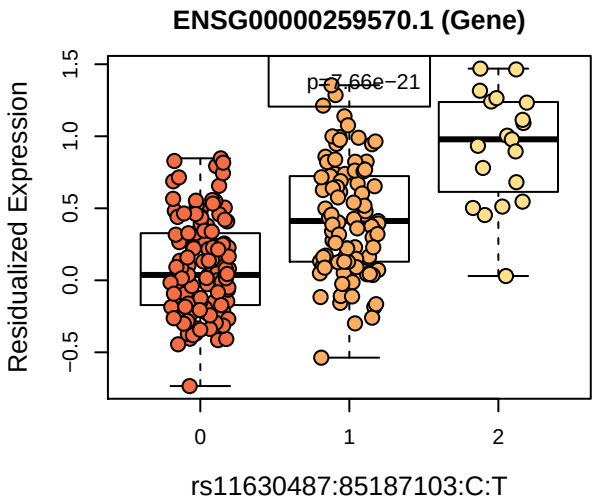
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Residualized Expression
p=7.66e−21
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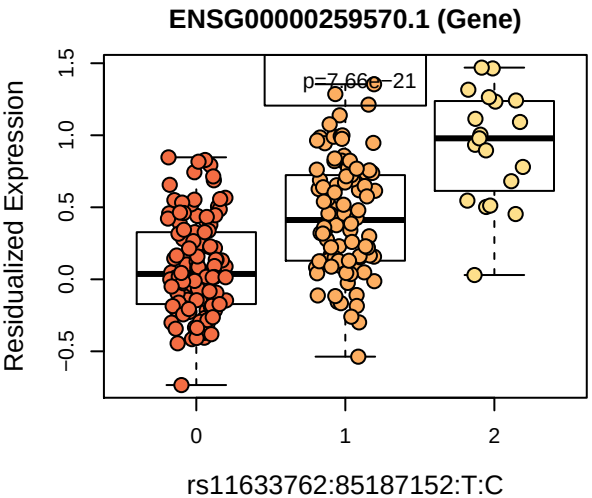
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p=7.66e−21
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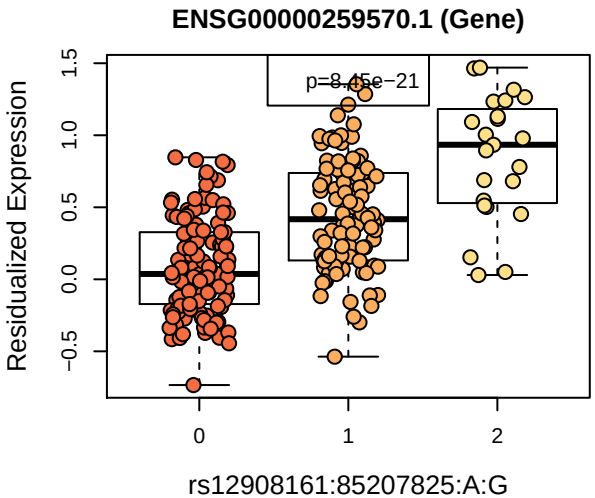
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Residualized Expression
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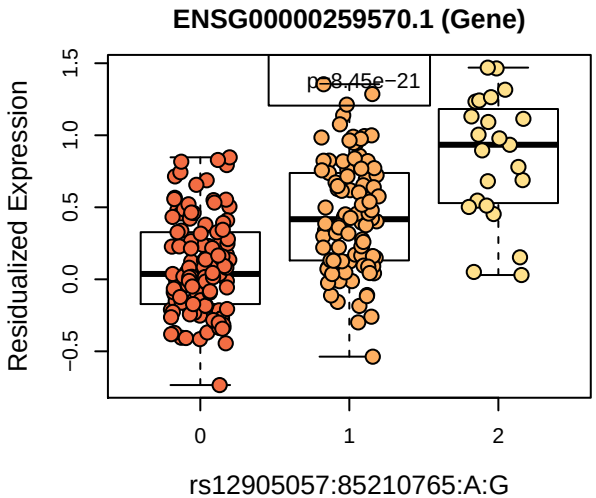
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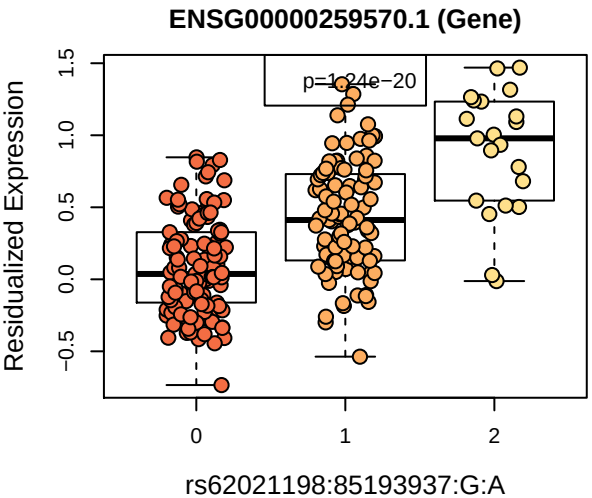
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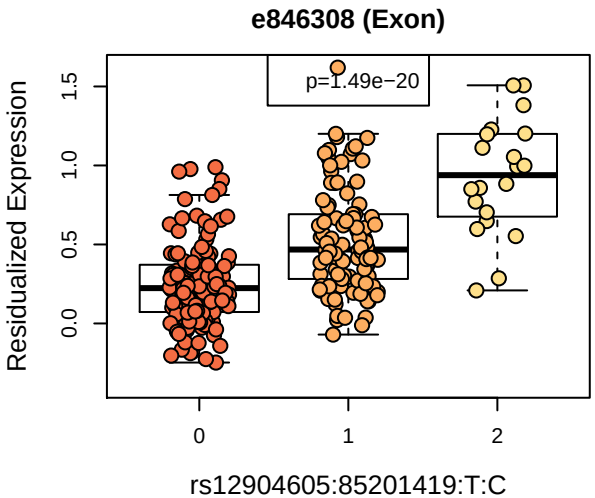
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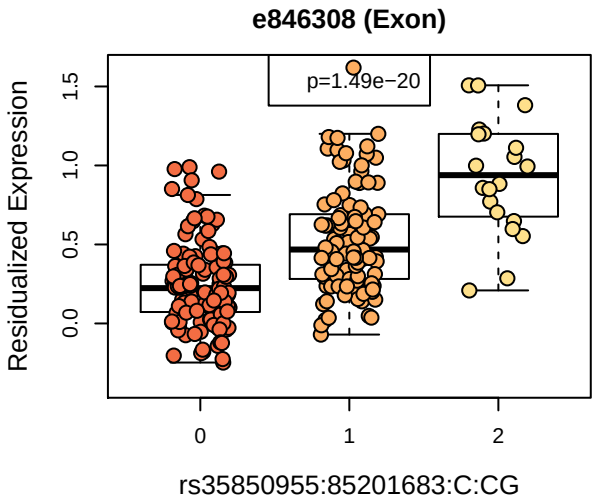
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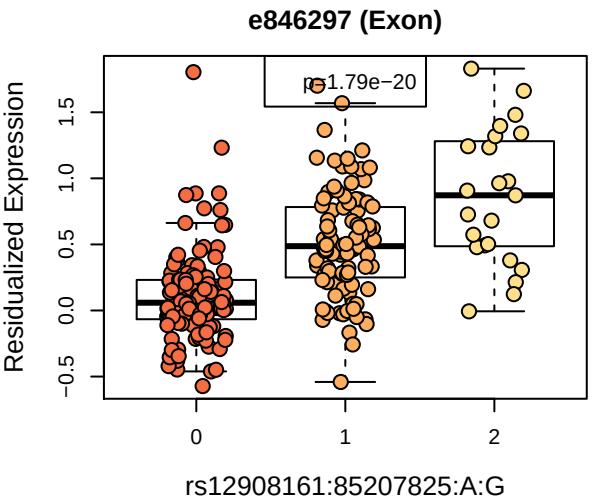
p=1.49e−20
Residualized Expression
rs35850955:85201683:C:CG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p=1.79e−20
Residualized Expression
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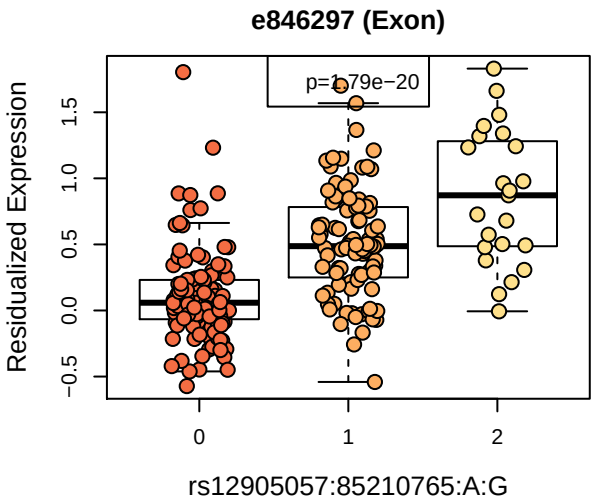
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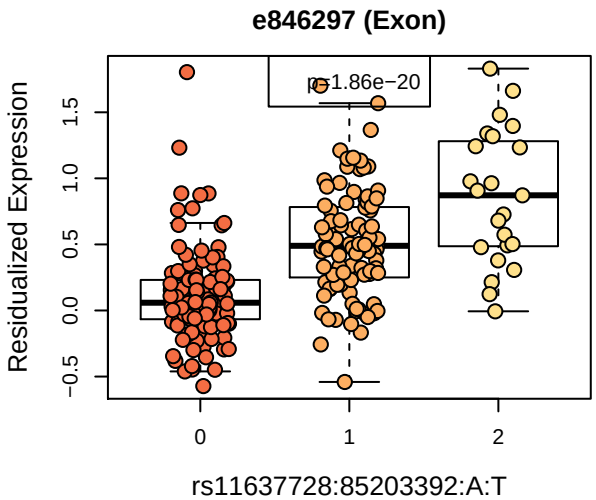
Residualized Expression
rs12905057:85210765:A:G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p=1.86e−20
Residualized Expression
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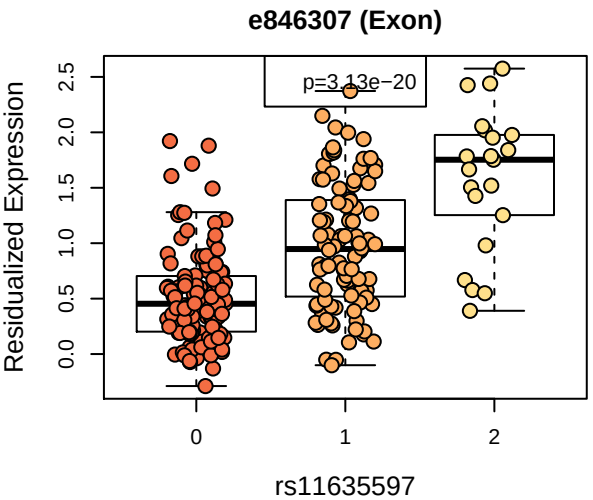
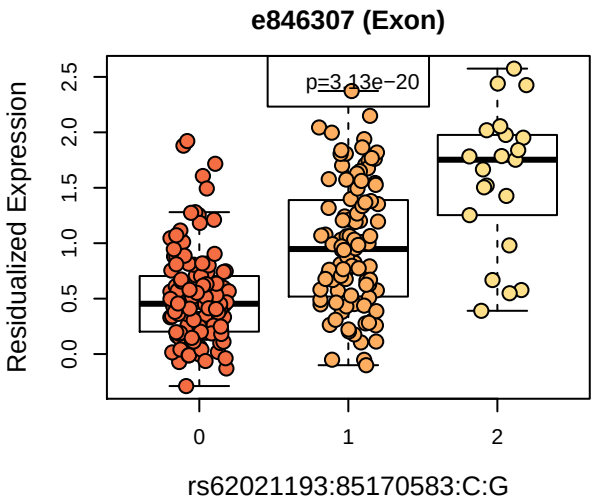
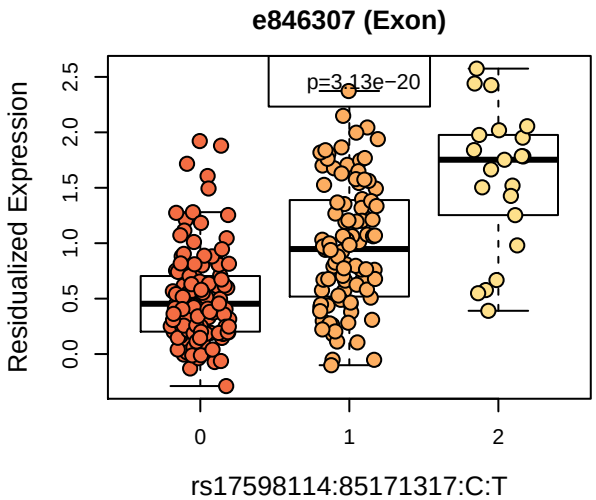

e846307 (Exon)
p=3.13e−20
Residualized Expression
rs11635597


e846307 (Exon)
p=3.13e−20
Residualized Expression
rs62021193:85170583:C:G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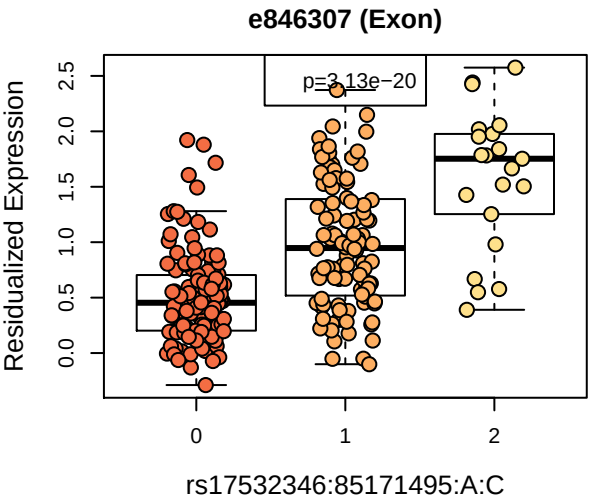
p=3.13e−20
Residualized Expression
rs17598114:85171317:C:T


e846307 (Exon)
Residualized Expression
p=3.13e−20
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1.0
1.5
2.0
2.5
0
1
2
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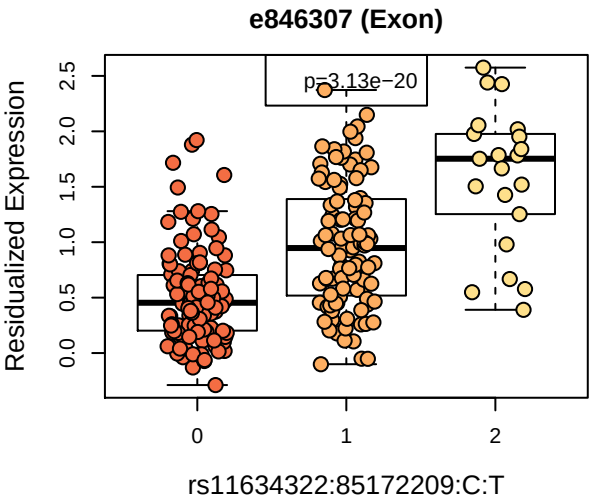
e846307 (Exon)
Residualized Expression
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0.5
1.0
1.5
2.0
2.5
0
1
2
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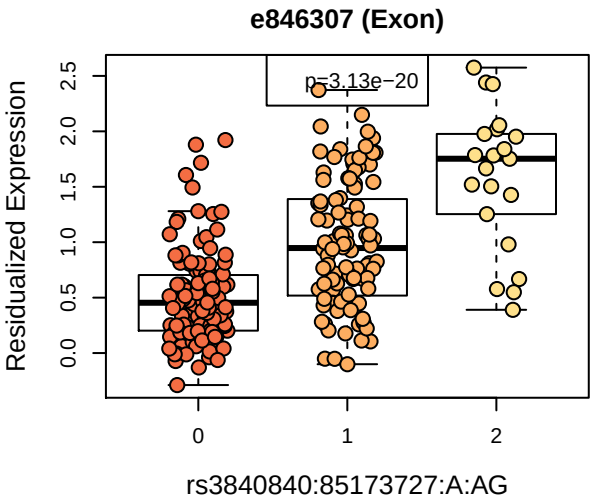
e846307 (Exon)
Residualized Expression
p=3.13e−20
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1.0
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0
1
2
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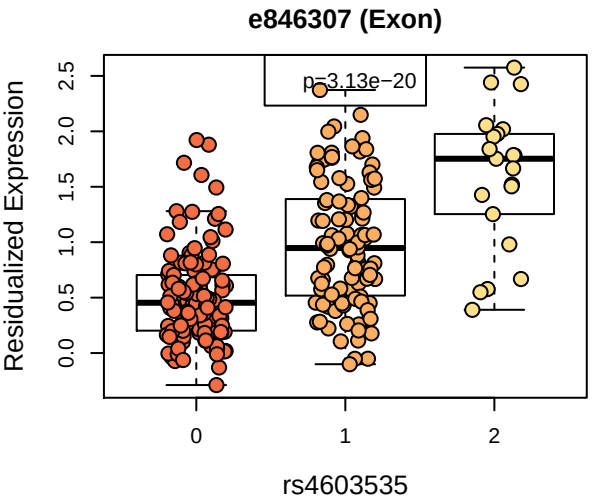
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Residualized Expression
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2.0
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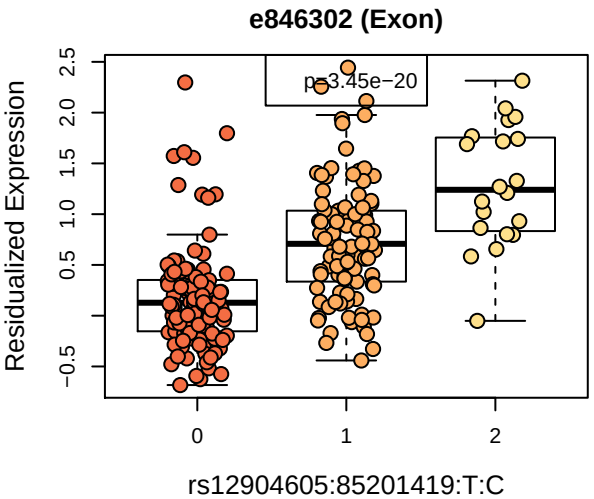
1
2
rs4603535


e846302 (Exon)
Residualized Expression
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1.0
1.5
2.0
2.5
0
1
2
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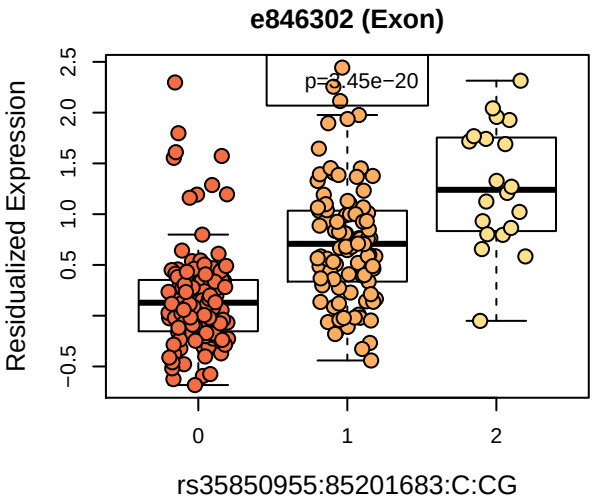
e846302 (Exon)
Residualized Expression
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2.0
2.5
0
1
2
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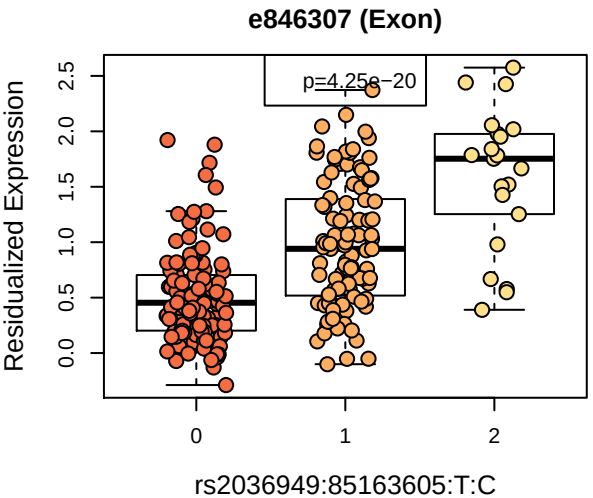
e846307 (Exon)
p=4.25e−20
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2.0
2.5
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2
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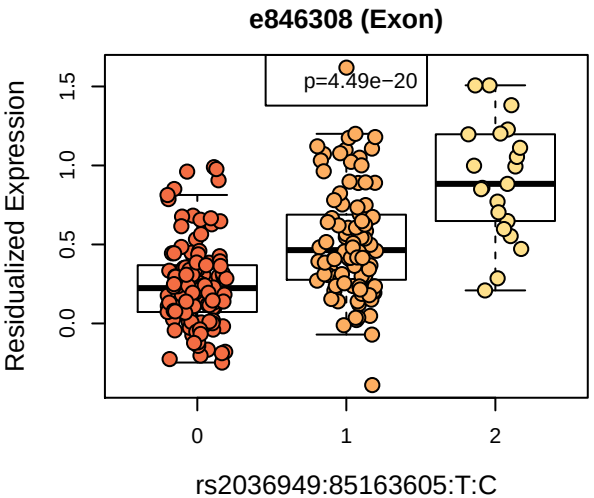
e846308 (Exon)
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Residualized Expression
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0
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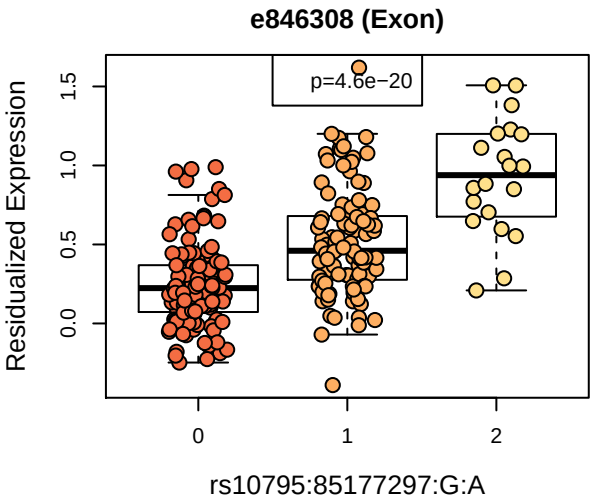
e846308 (Exon)
p=4.6e−20
Residualized Expression
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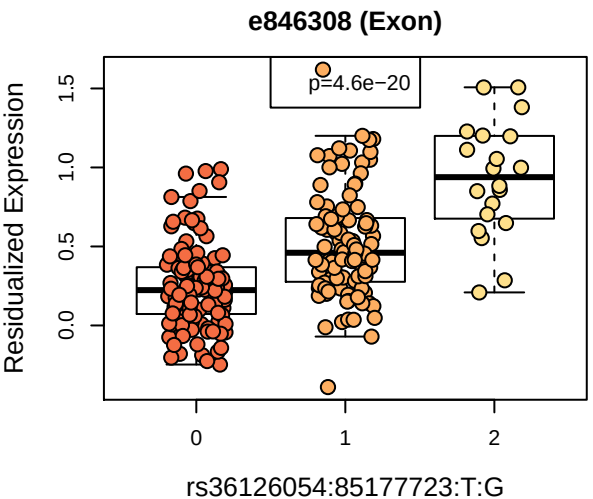
1.0
1.5
0
1
2
rs10795:85177297:G:A


e846308 (Exon)
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Residualized Expression
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1.0
1.5
0
1
2
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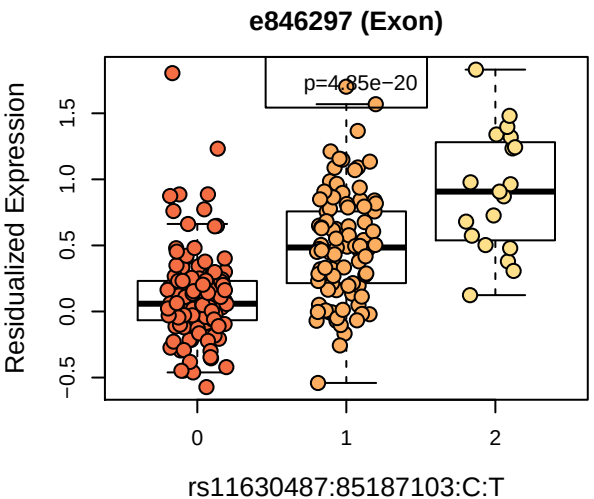
e846297 (Exon)
p=4.85e−20
Residualized Expression
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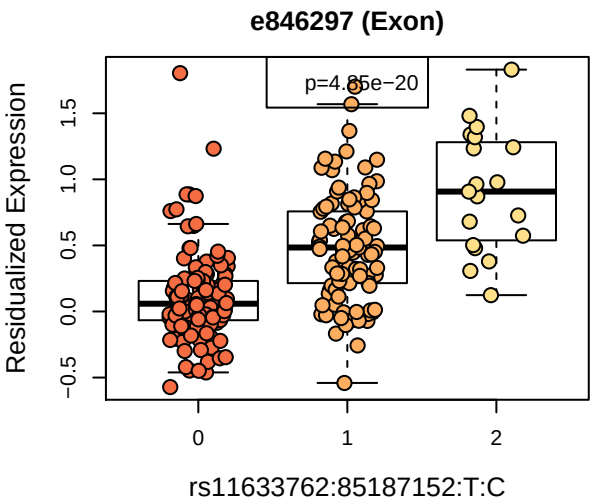
0.5
1.0
1.5
0
1
2
rs11630487:85187103:C:T


e846297 (Exon)
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Residualized Expression
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1.5
0
1
2
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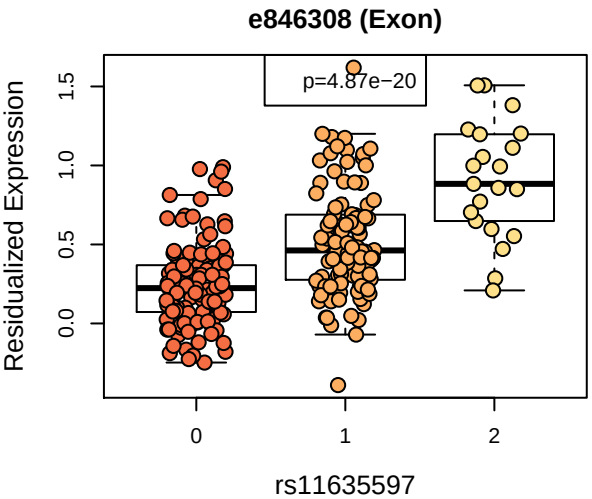
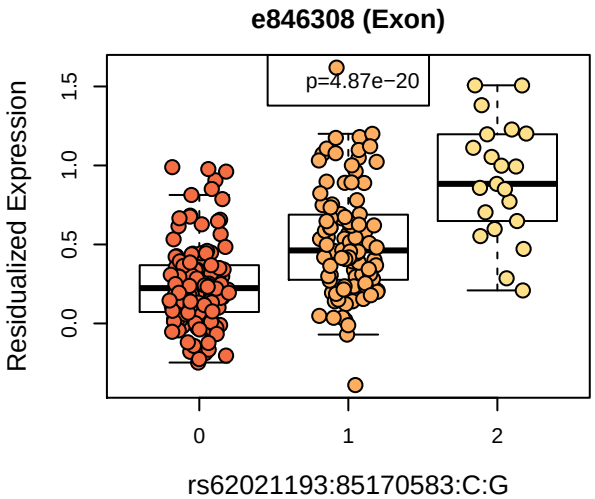

e846308 (Exon)
p=4.87e−20
Residualized Expression
0.0
0.5
1.0
1.5
0
1
2
rs11635597


e846308 (Exon)
p=4.87e−20
Residualized Expression
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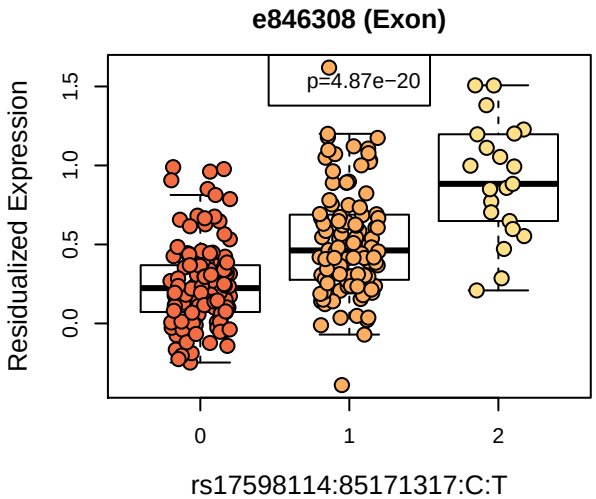
1.0
1.5
0
1
2
rs62021193:85170583:C:G


e846308 (Exon)
p=4.87e−20
Residualized Expression
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1.5
0
1
2
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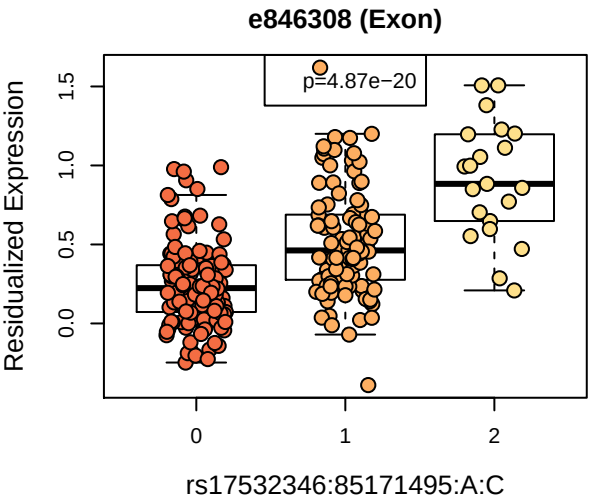
e846308 (Exon)
p=4.87e−20
Residualized Expression
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1.5
0
1
2
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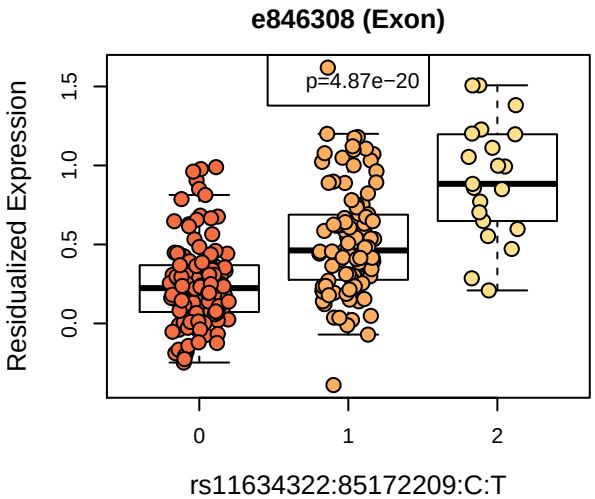
e846308 (Exon)
p=4.87e−20
Residualized Expression
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0.5
1.0
1.5
0
1
2
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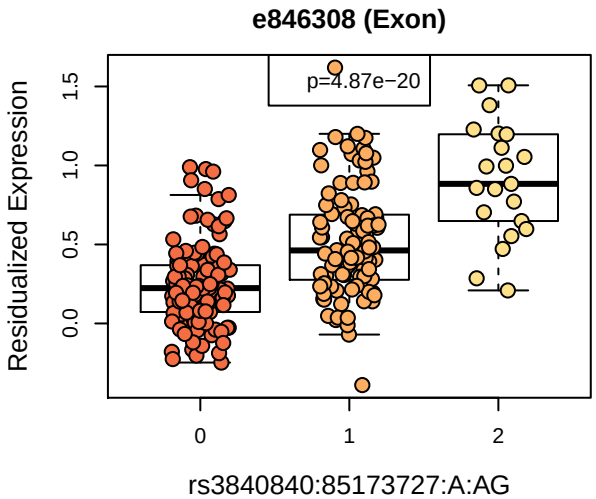
e846308 (Exon)
p=4.87e−20
Residualized Expression
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1.0
1.5
0
1
2
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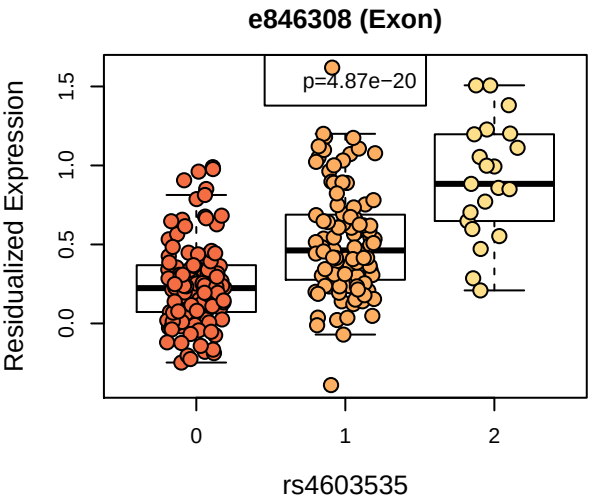
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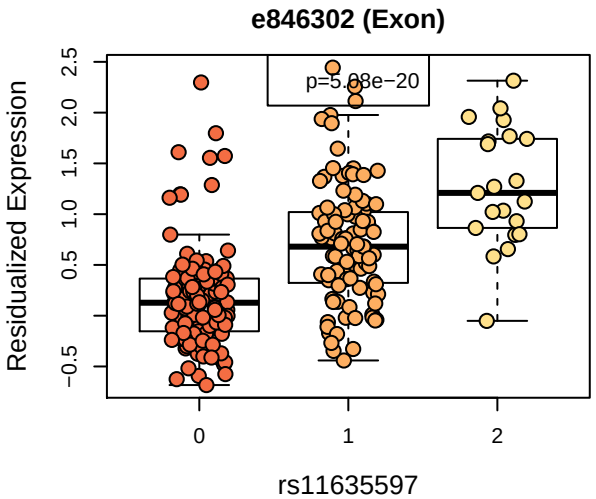
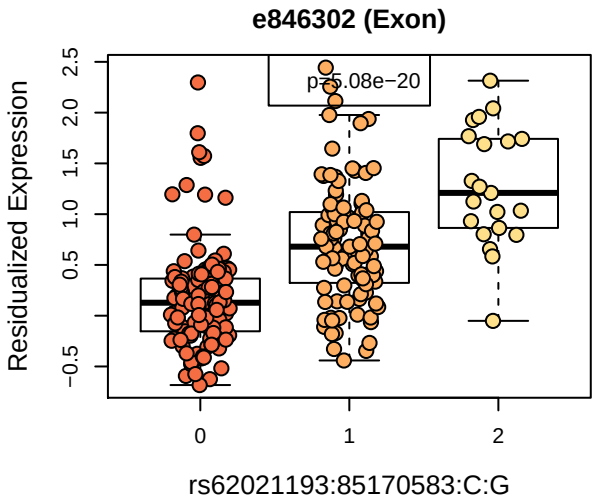
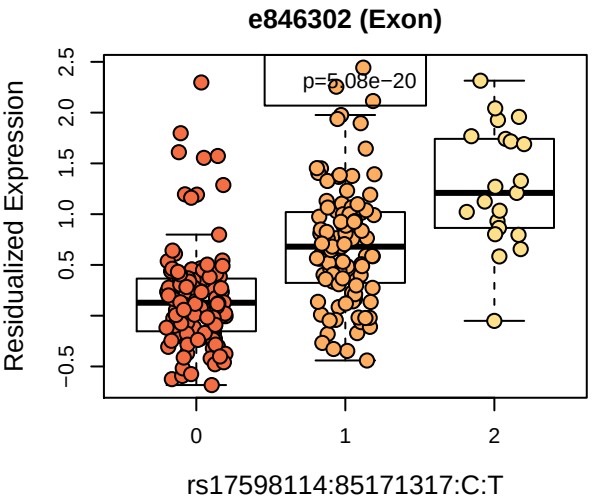
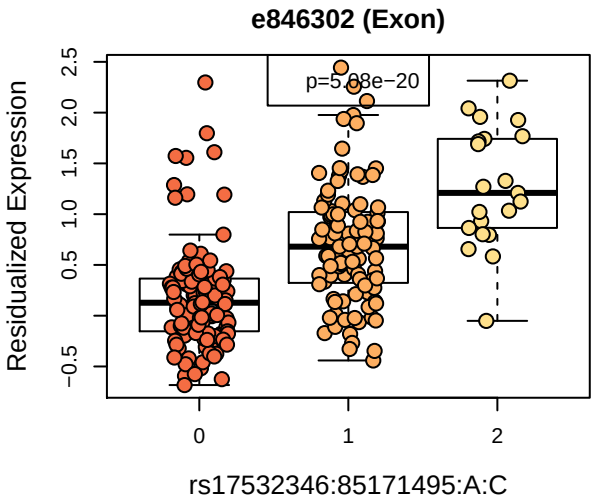
p=4.87e−20
Residualized Expression
rs4603535


e846302 (Exon)
p=5.08e−20
Residualized Expression
rs11635597


e846302 (Exon)
p=5.08e−20
Residualized Expression
rs62021193:85170583:C:G


e846302 (Exon)
p=5.08e−20
Residualized Expression
rs17598114:85171317:C:T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p=5.08e−20
Residualized Expression
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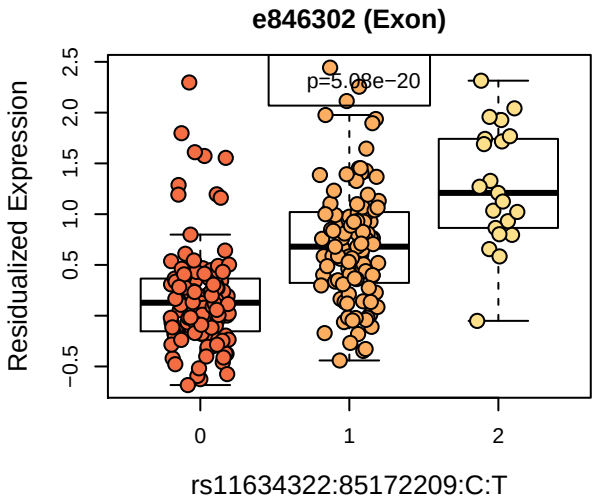
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Residualized Expression
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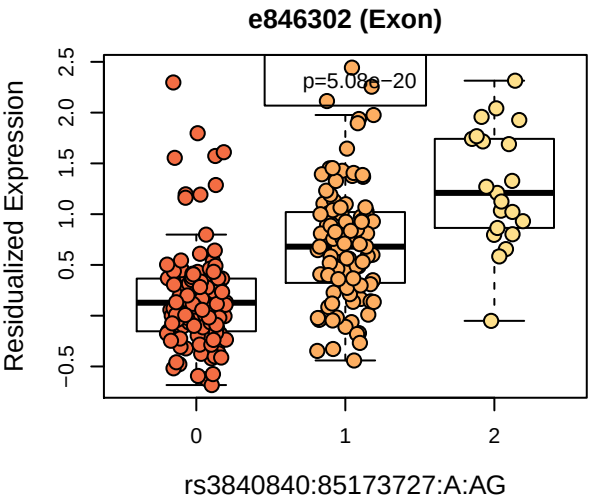
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Residualized Expression
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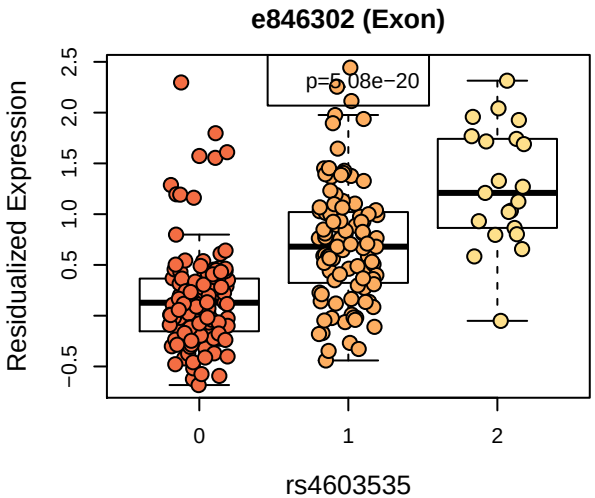
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p=5.08e−20
Residualized Expression
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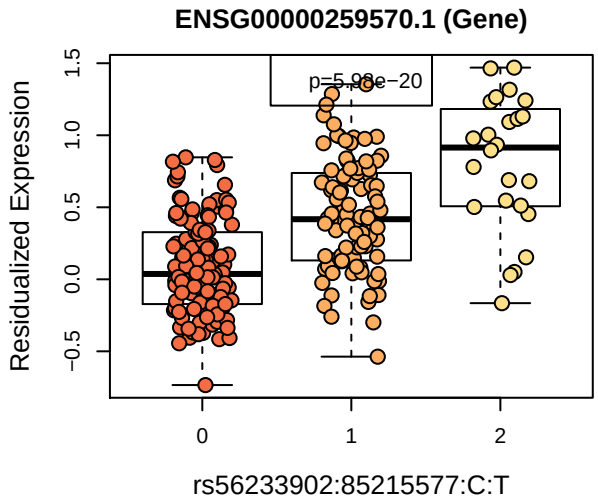
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Residualized Expression
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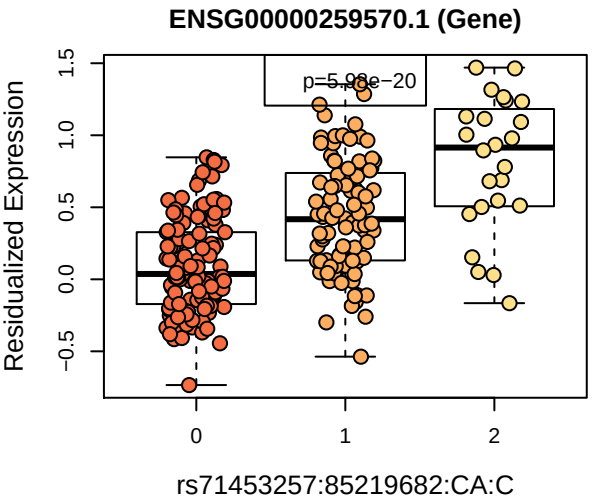
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Residualized Expression
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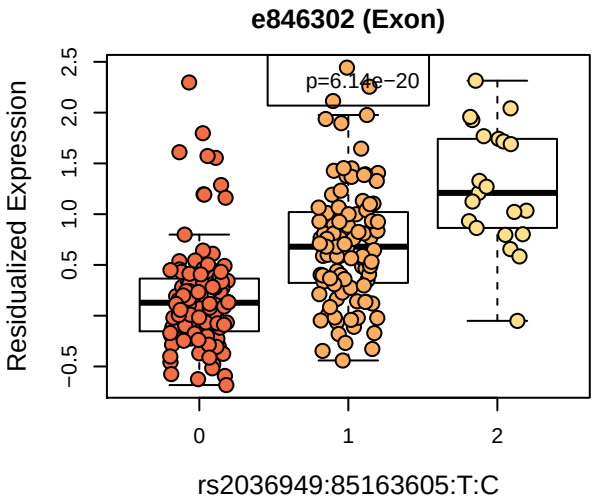
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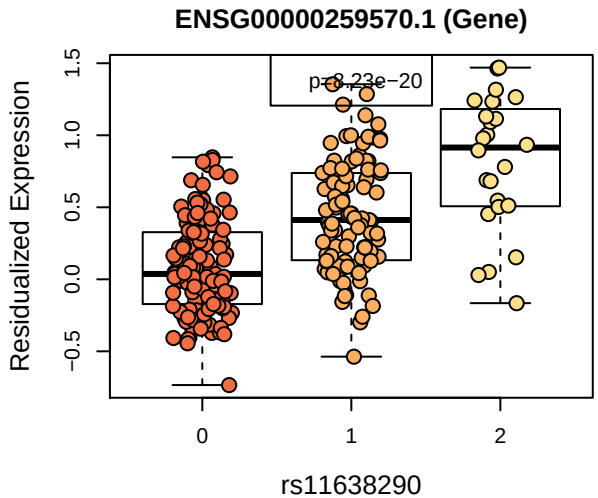
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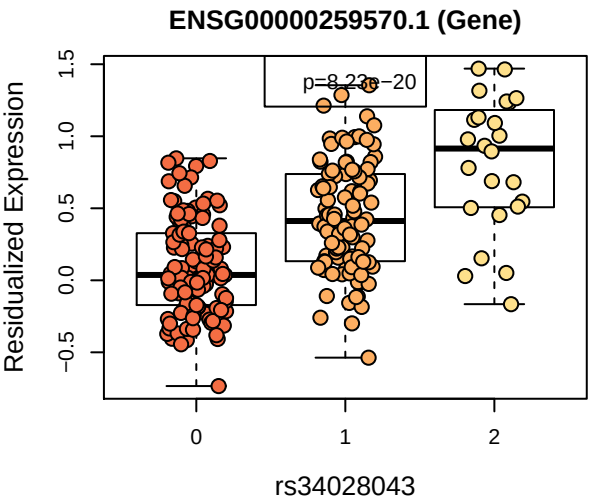
Residualized Expression
rs11638290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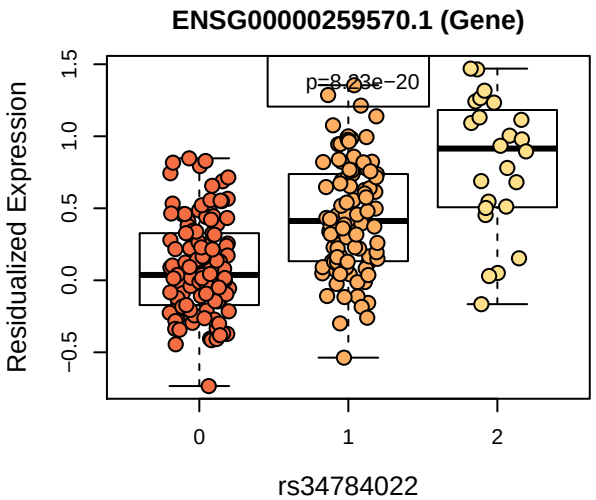
Residualized Expression
rs34028043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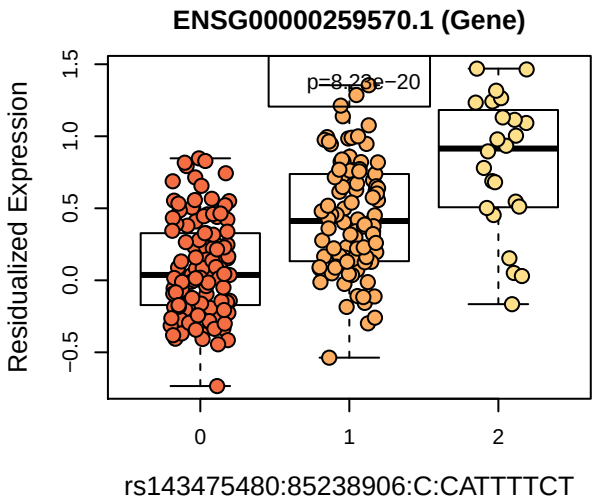
rs34784022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Residualized Expression
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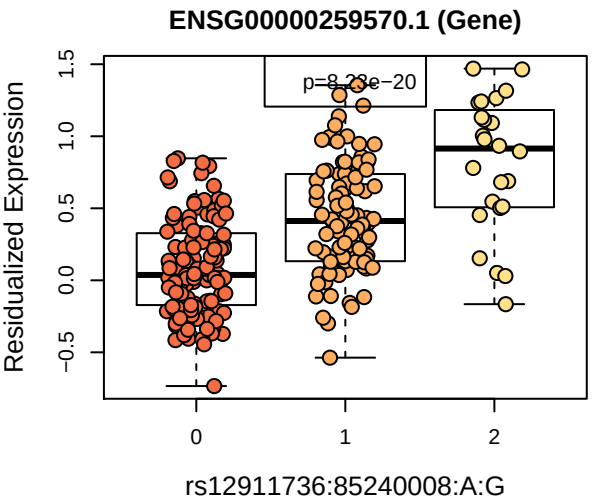
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p=8.23e−20
Residualized Expression
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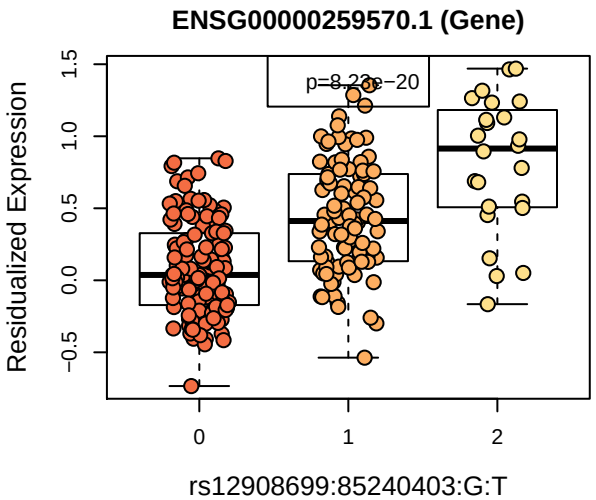
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p=8.23e−20
Residualized Expression
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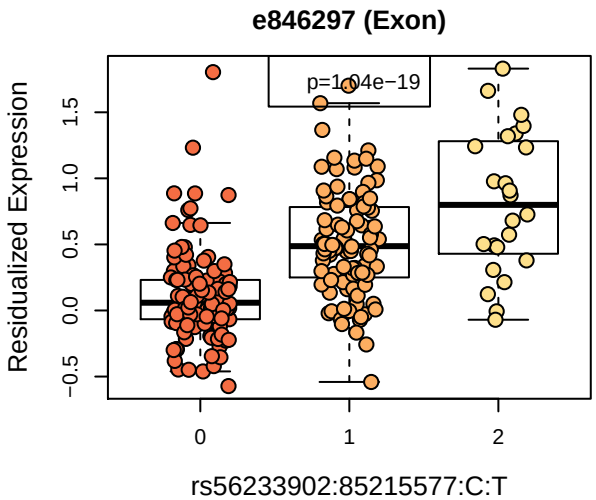
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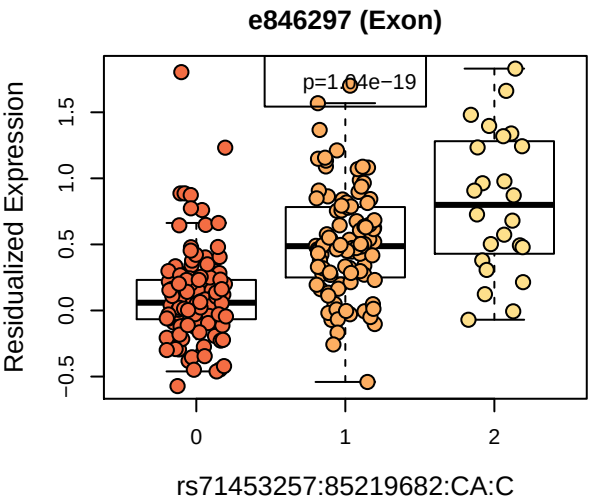
p=1.04e−19
Residualized Expression
rs56233902:85215577:C:T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p=1.04e−19
Residualized Expression
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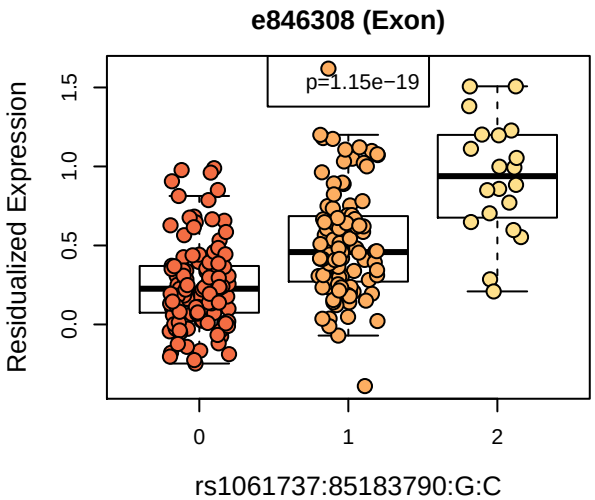
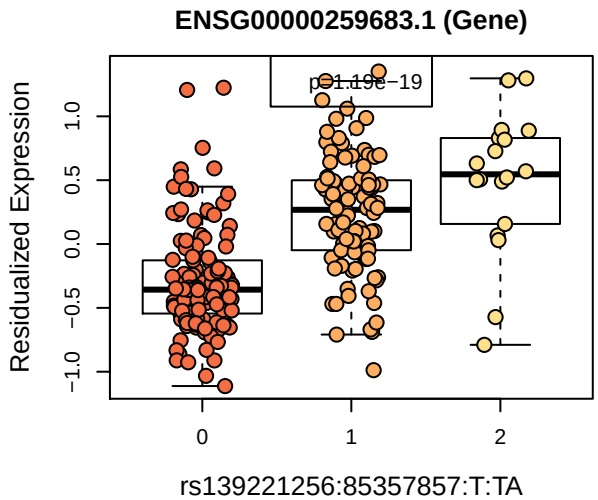

e846308 (Exon)
p=1.15e−19
Residualized Expression
rs1061737:85183790:G:C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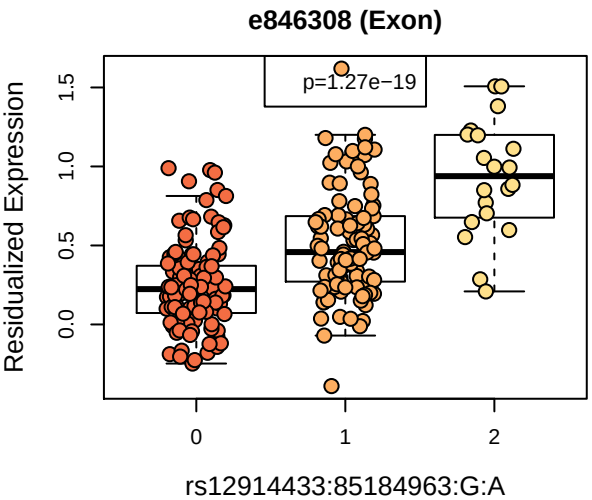
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p=1.27e−19
Residualized Expression
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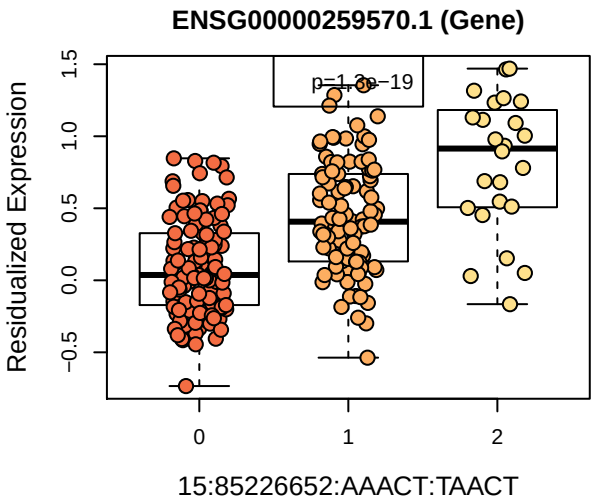
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Residualized Expression
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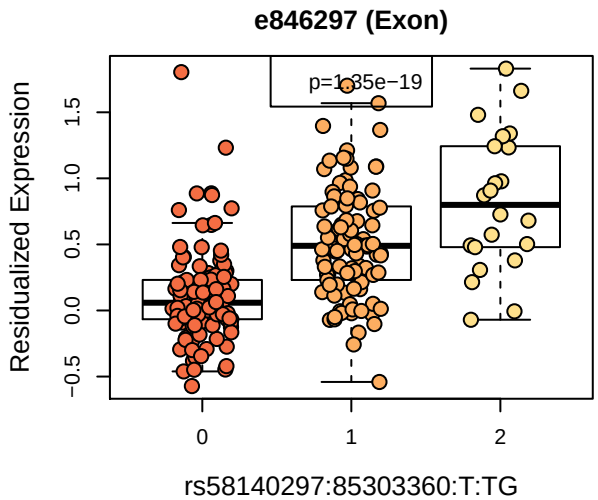
e846297 (Exon)
p=1.35e−19
Residualized Expression
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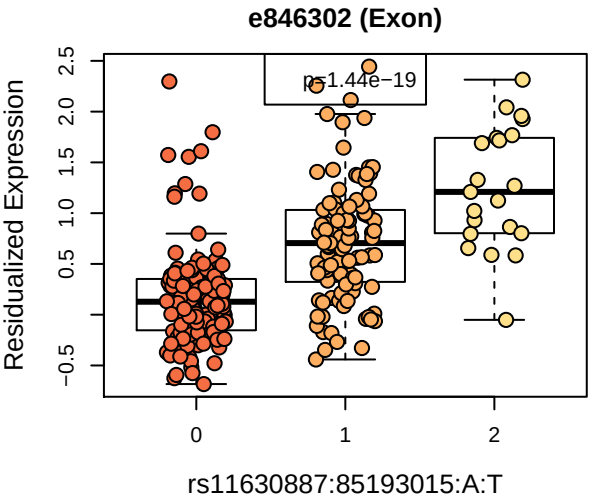
e846302 (Exon)
p=1.44e−19
Residualized Expression
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1.0
1.5
2.0
2.5
0
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2
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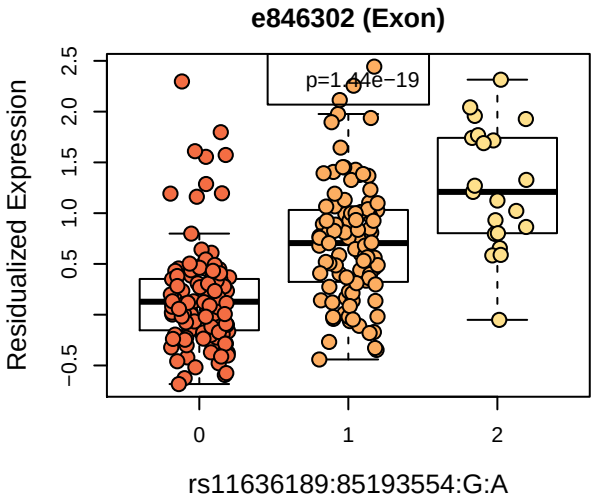
e846302 (Exon)
p=1.44e−19
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1.5
2.0
2.5
0
1
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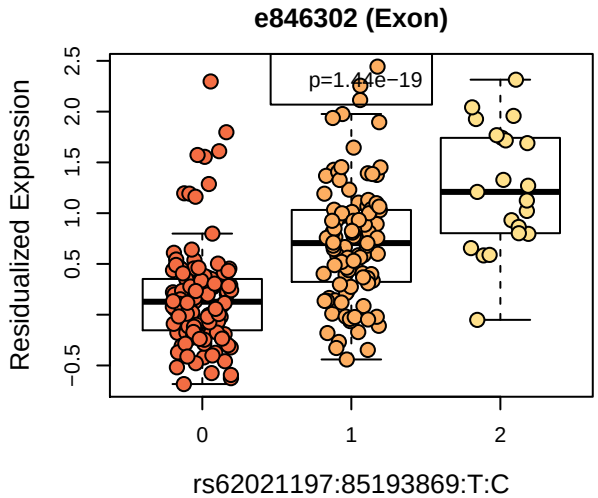
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1.5
2.0
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0
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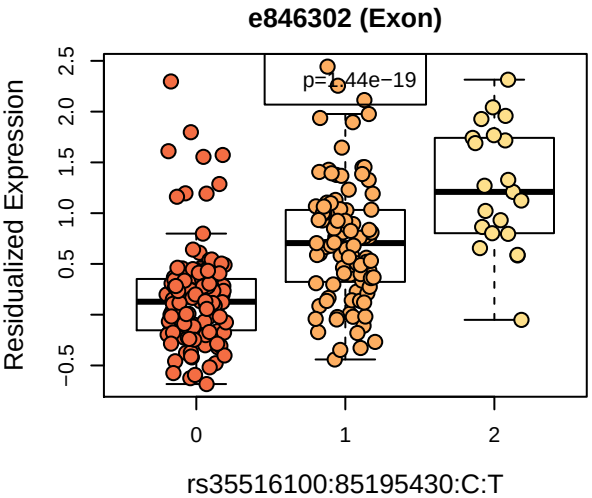
e846302 (Exon)
p=1.44e−19
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1.5
2.0
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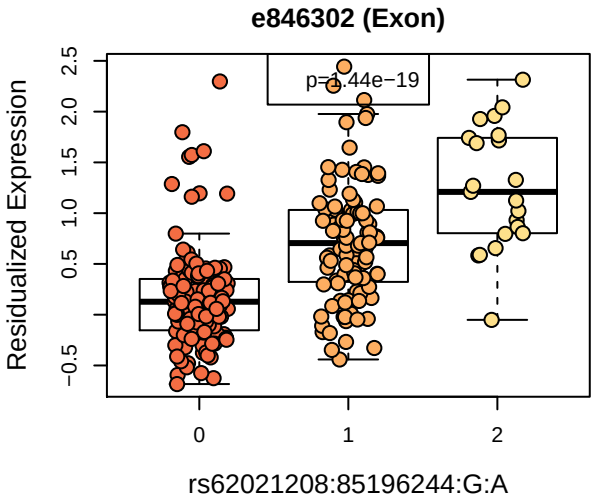
e846302 (Exon)
p=1.44e−19
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1.5
2.0
2.5
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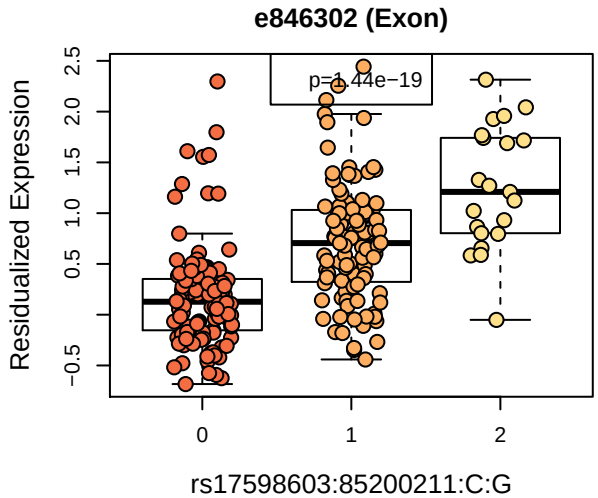
rs62021208:85196244:G:A


e846302 (Exon)
p=1.44e−19
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1.5
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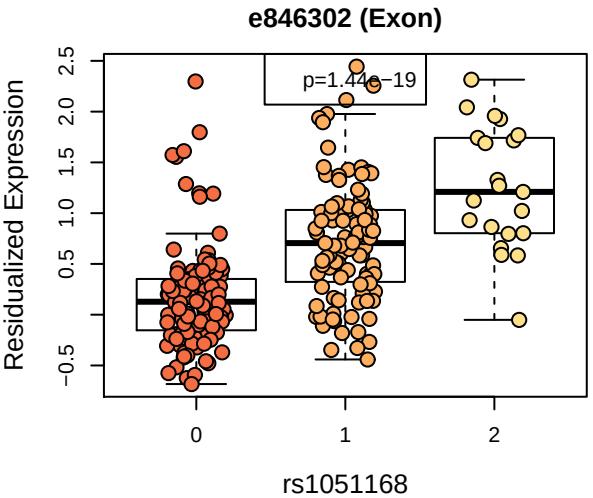
e846302 (Exon)
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1.0
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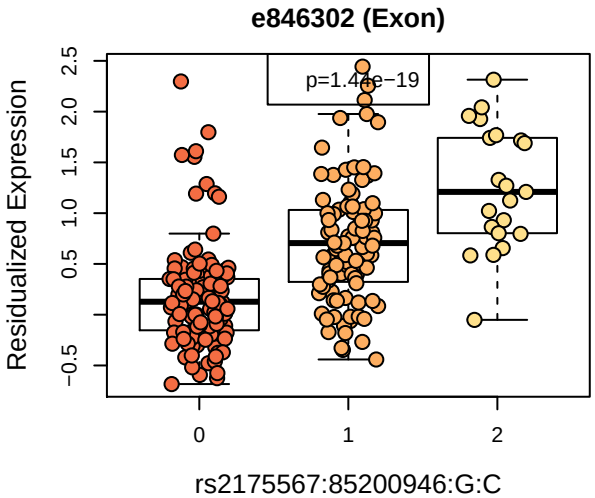
rs1051168


e846302 (Exon)
p=1.44e−19
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1.5
1.0
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0
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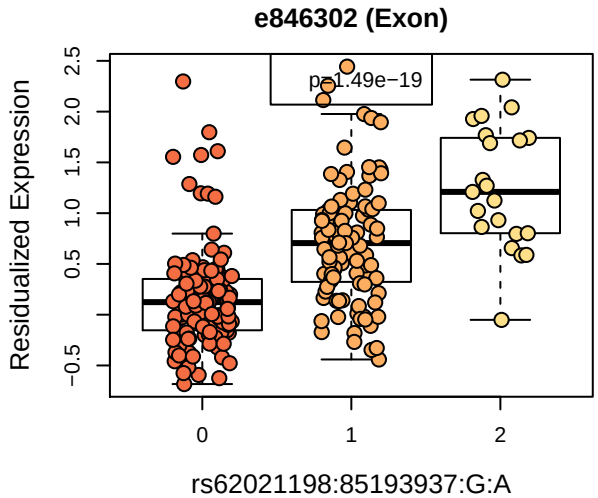
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0
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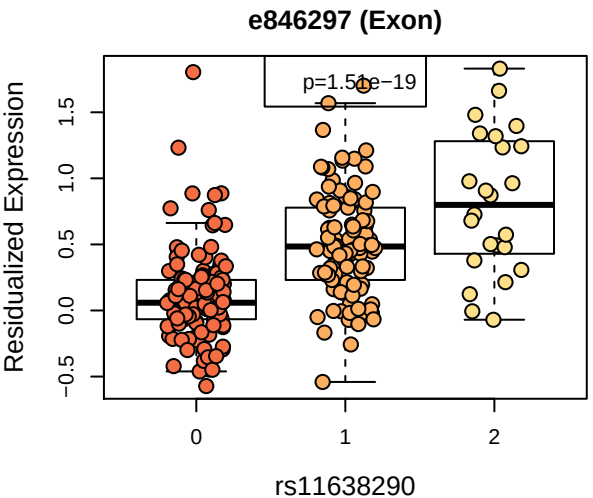
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1
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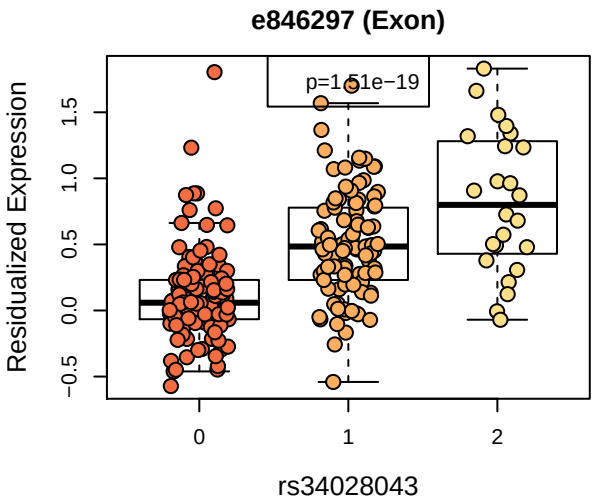
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p=1.51e−19
Residualized Expression
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1
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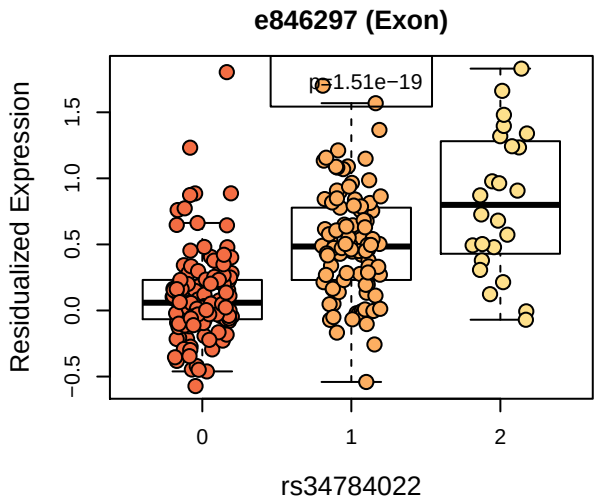
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Residualized Expression
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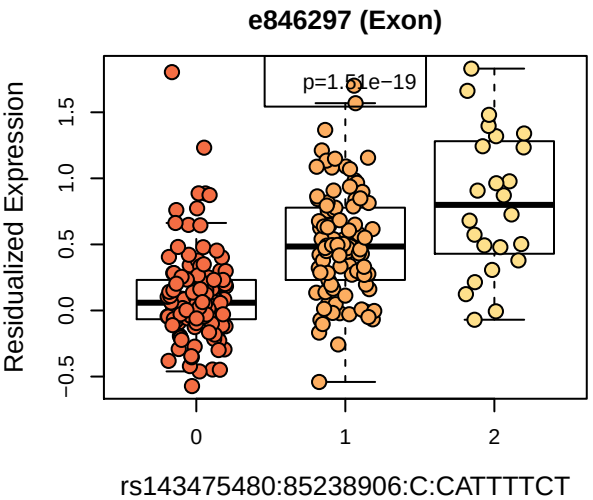
1
2
rs34784022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Residualized Expression
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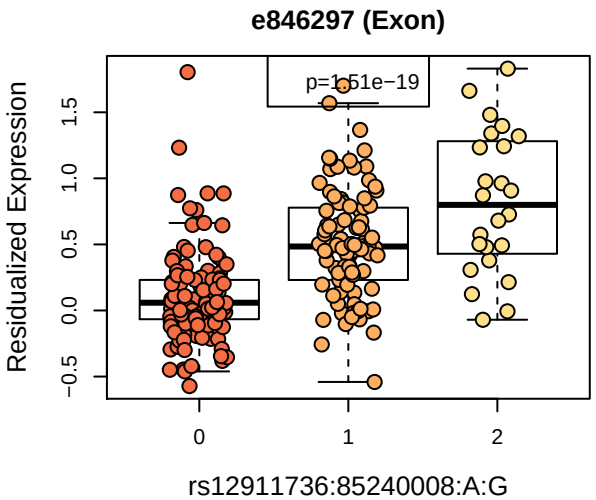
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Residualized Expression
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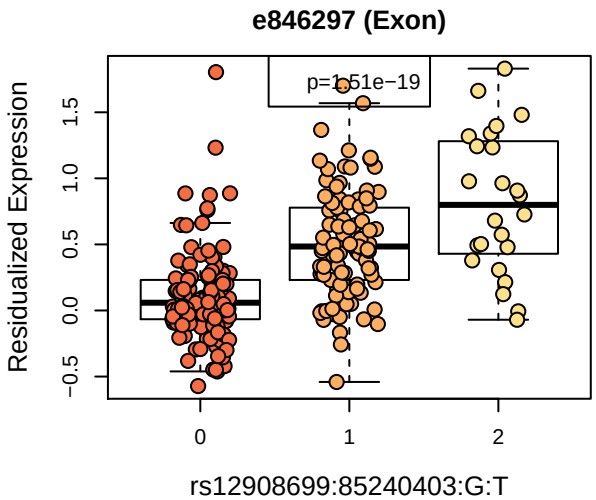
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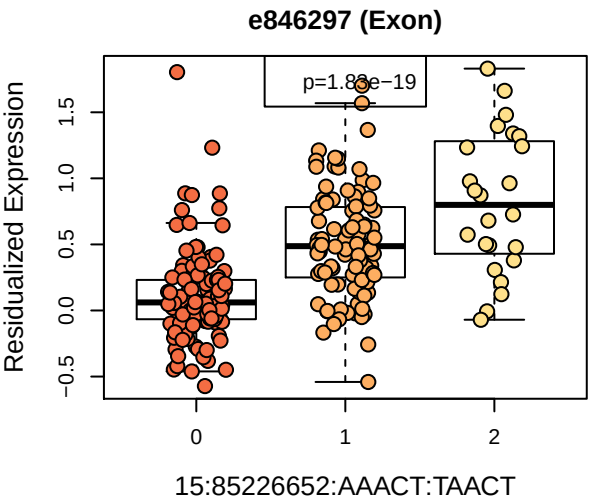
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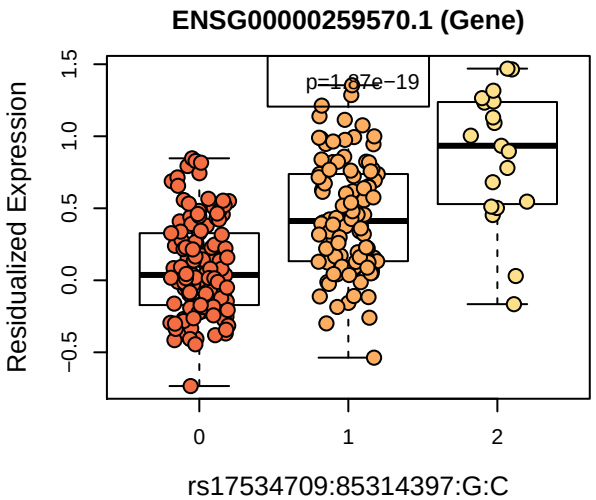
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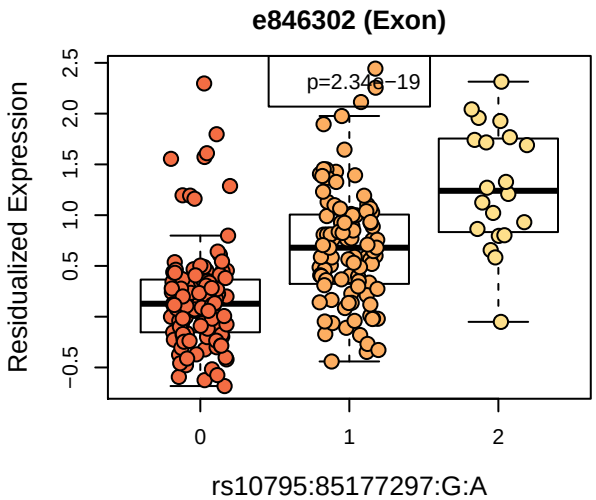
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Residualized Expression
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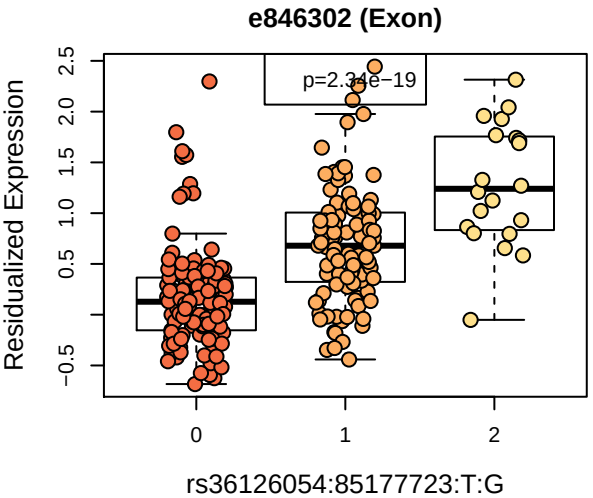
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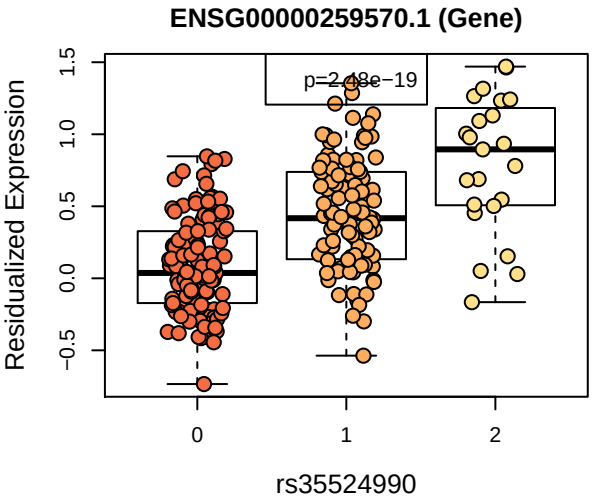
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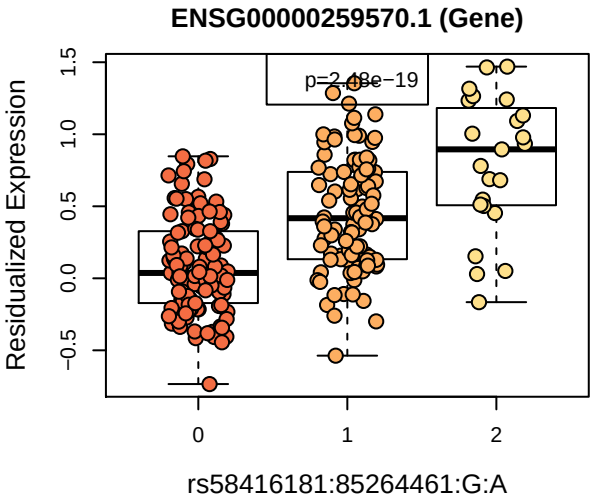
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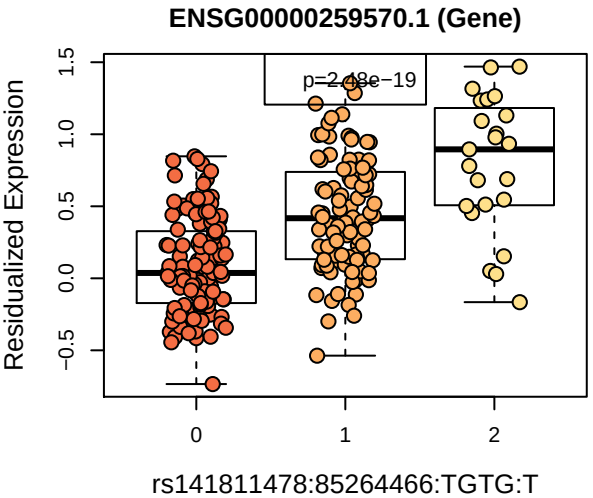
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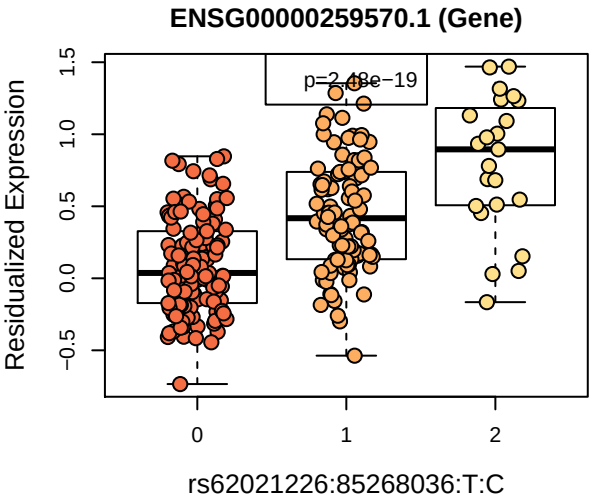
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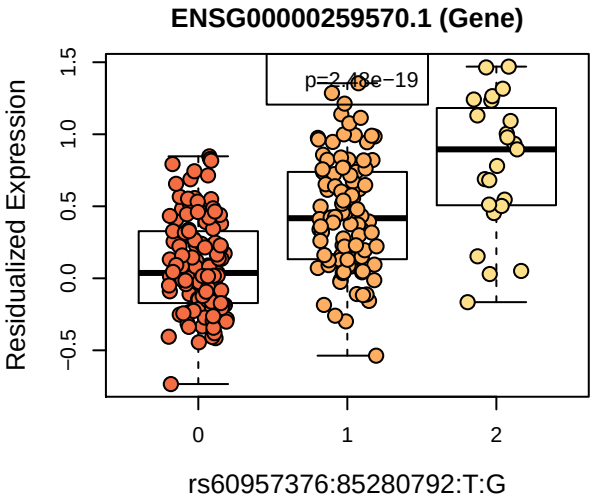
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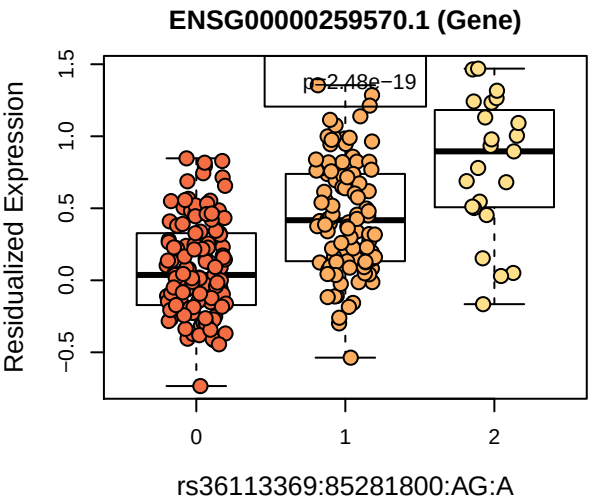
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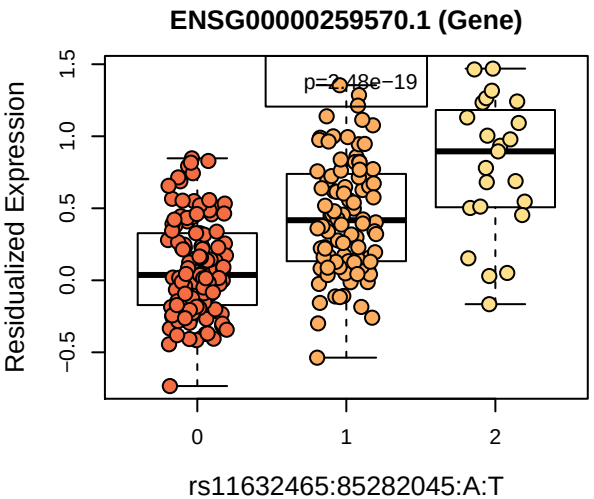
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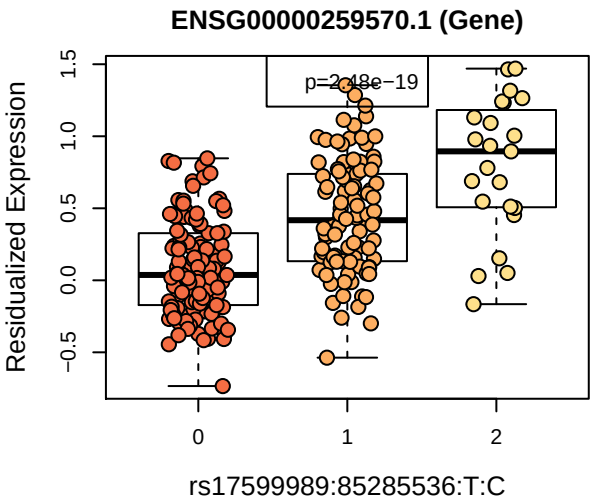
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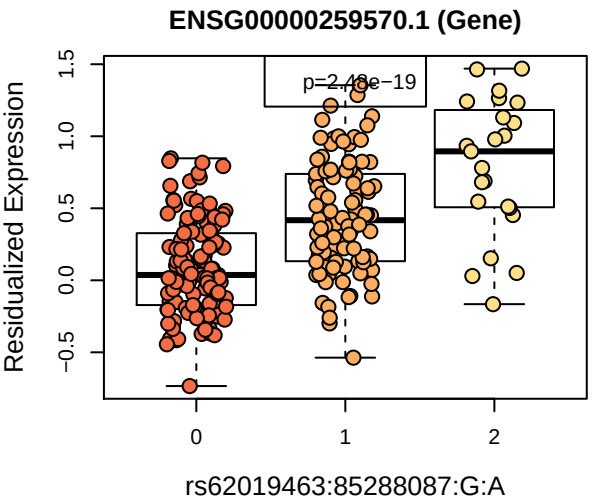
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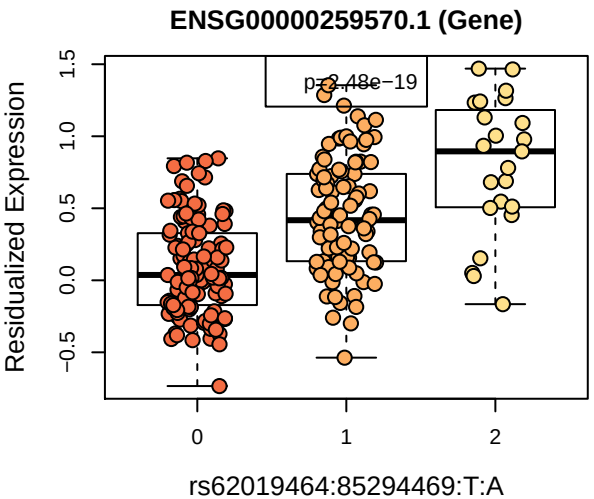
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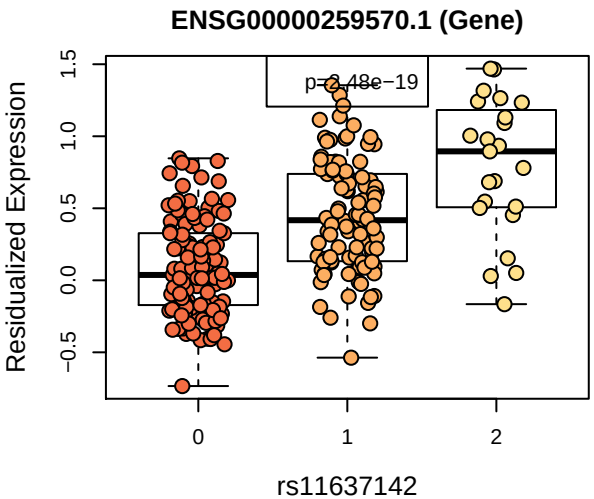
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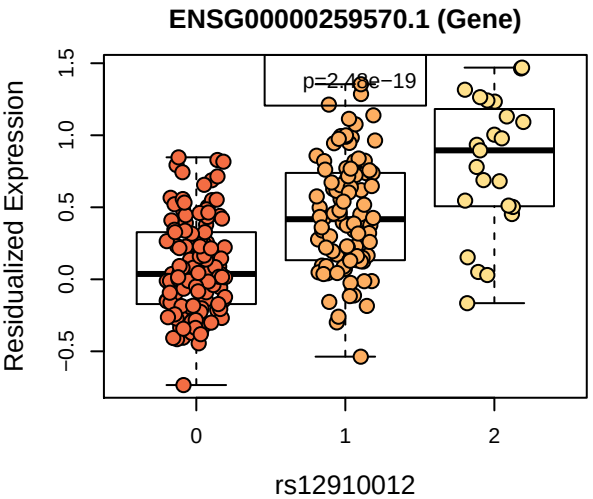
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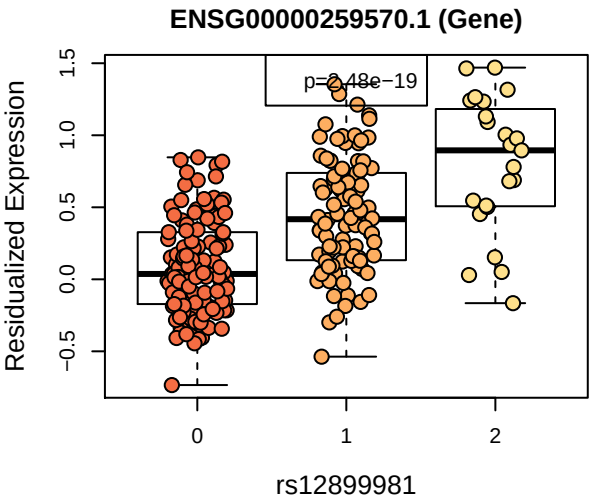
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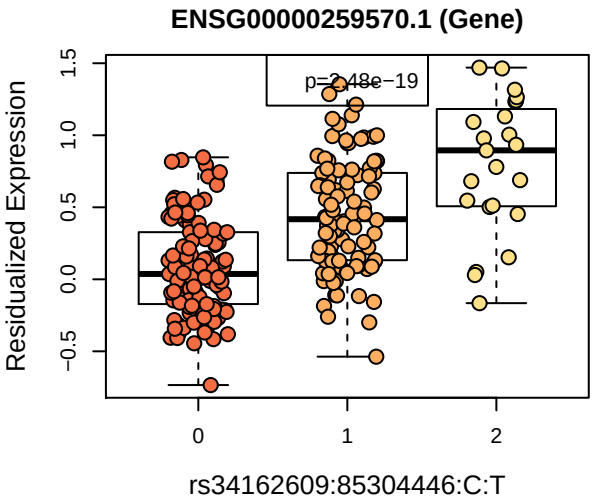
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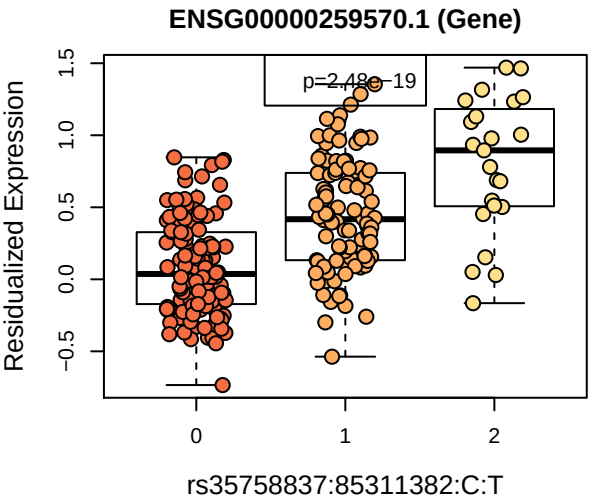
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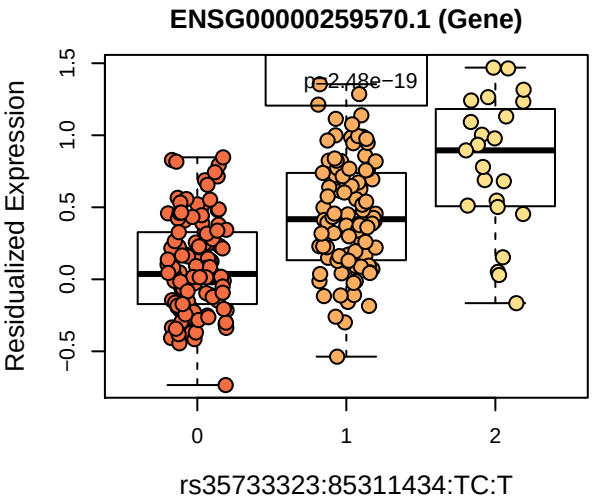
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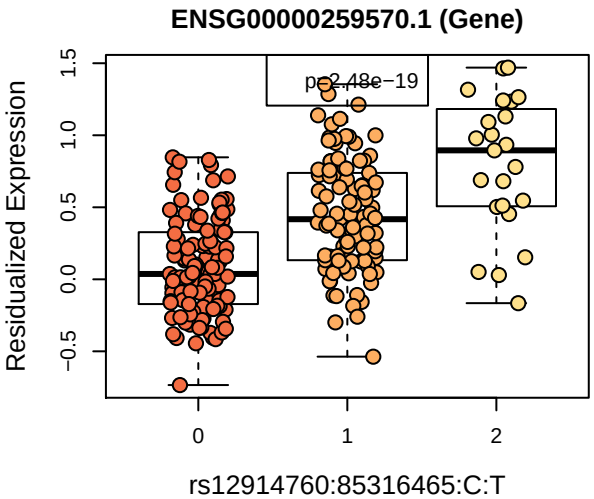
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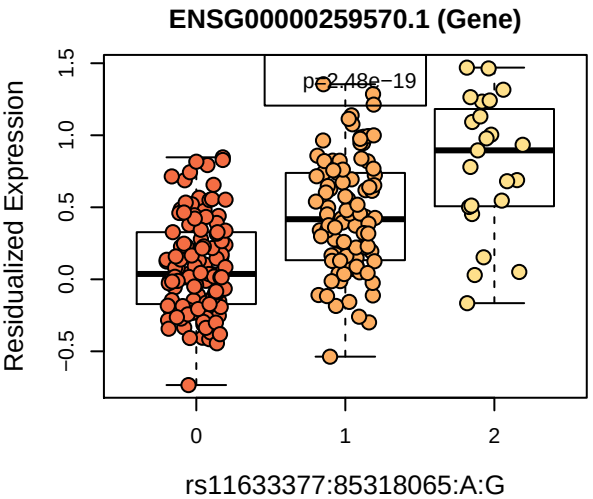
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Residualized Expression
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−0.5
0
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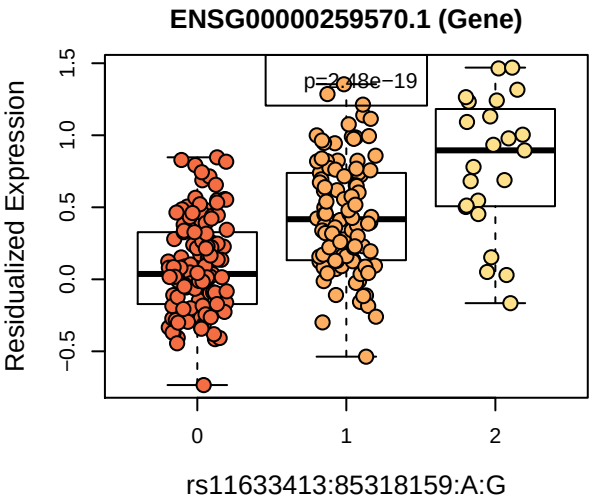
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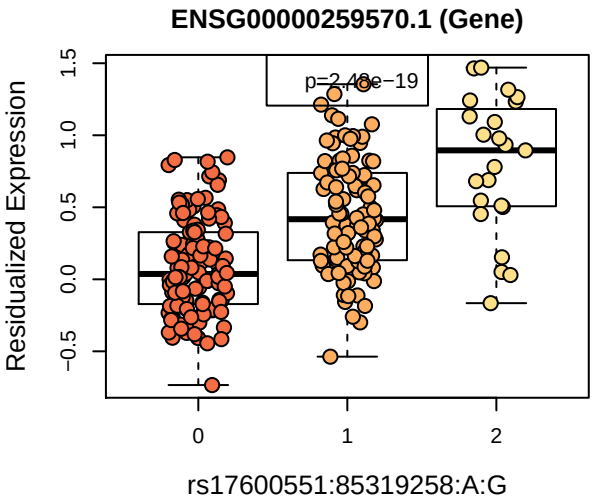
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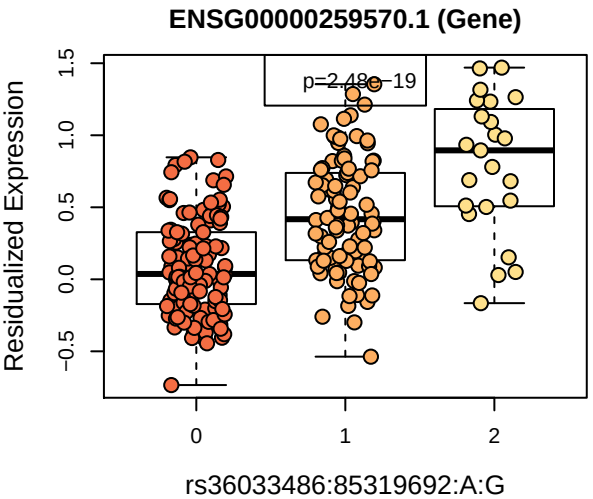
ENSG00000259570.1 (Gene)
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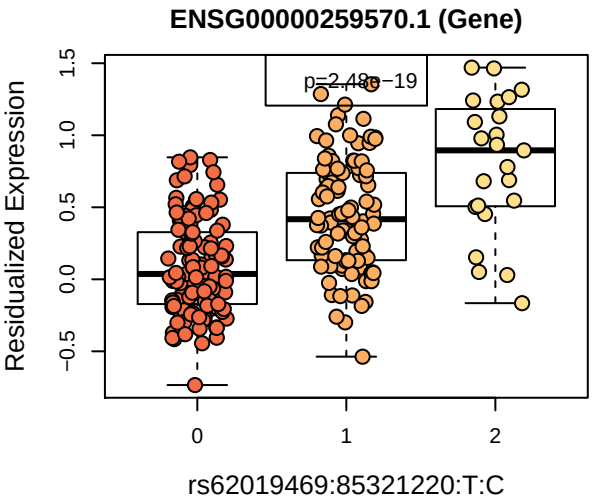
ENSG00000259570.1 (Gene)
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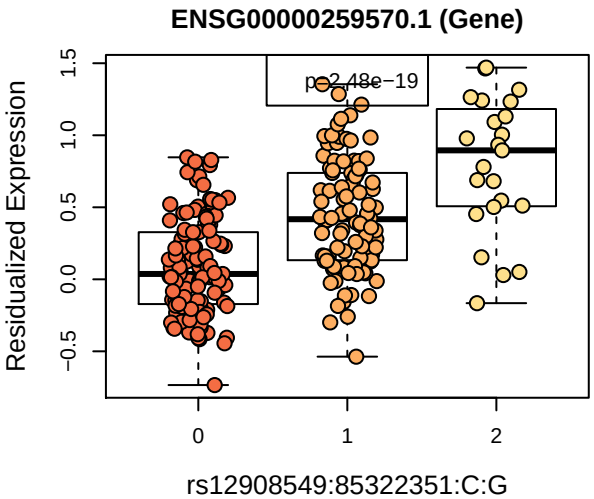
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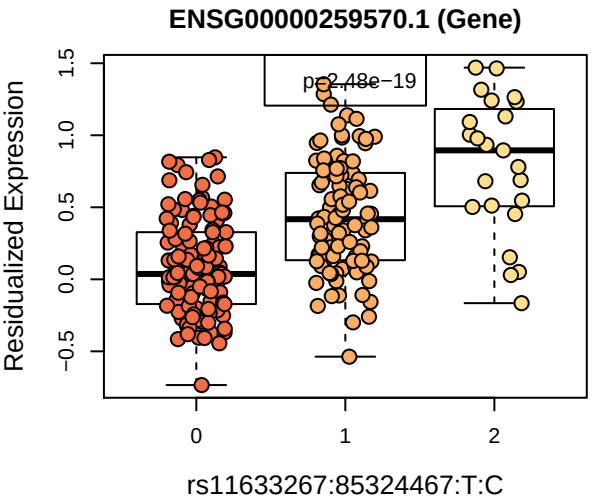
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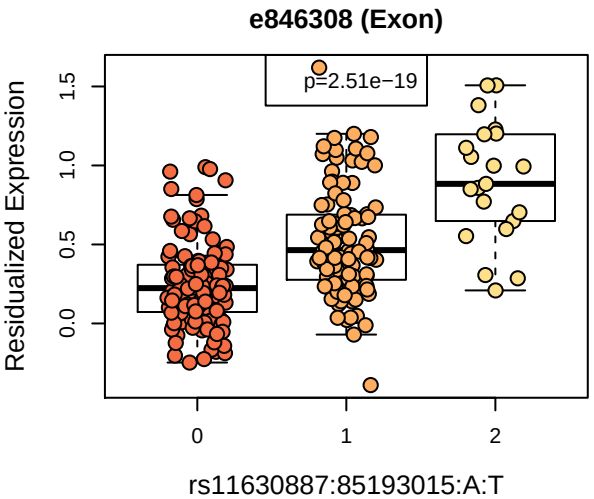
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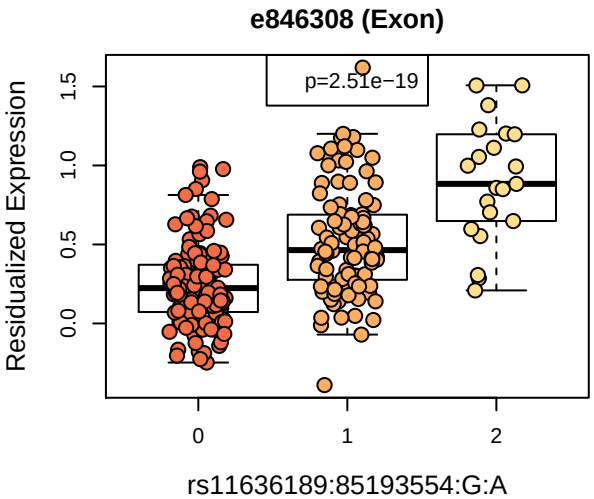
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p=2.51e−19
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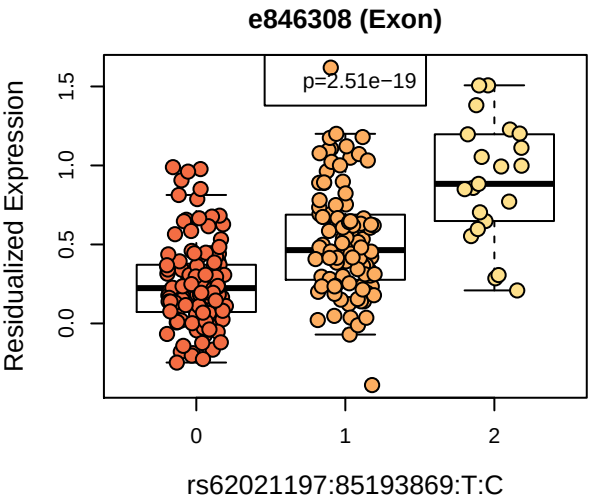
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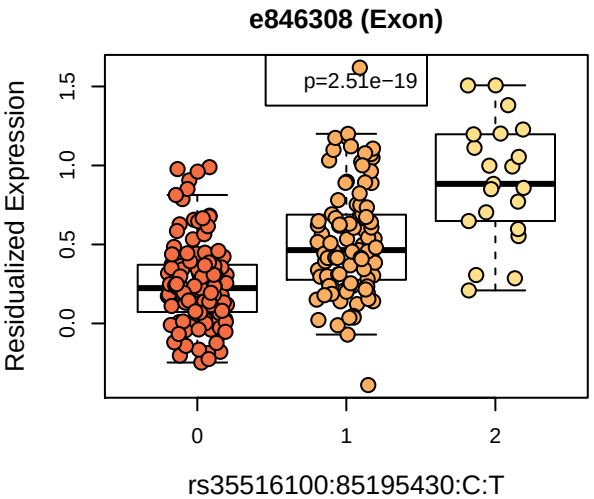
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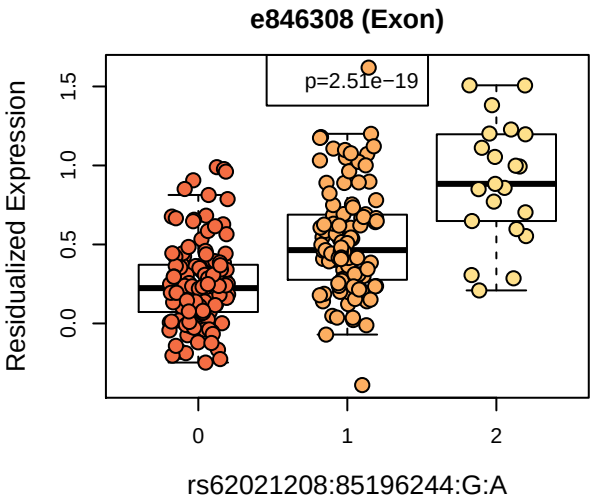
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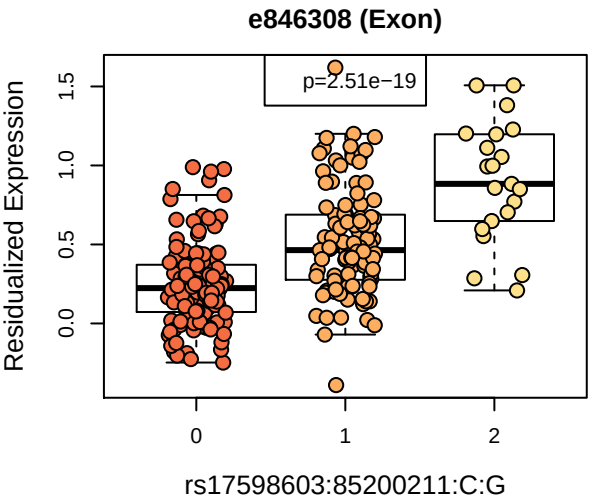
e846308 (Exon)
p=2.51e−19
Residualized Expression
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1.0
1.5
0
1
2
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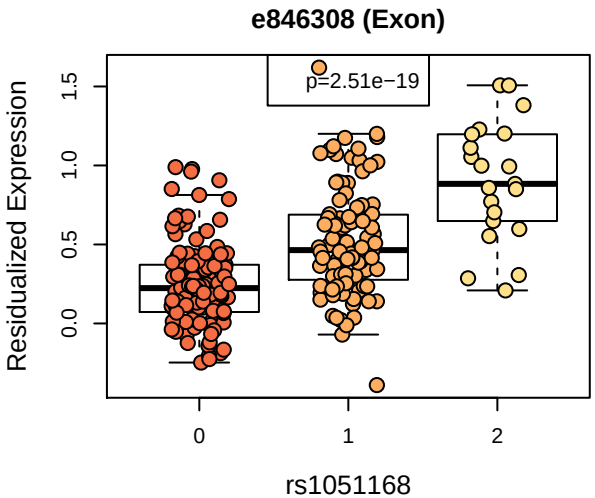
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Residualized Expression
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1.0
1.5
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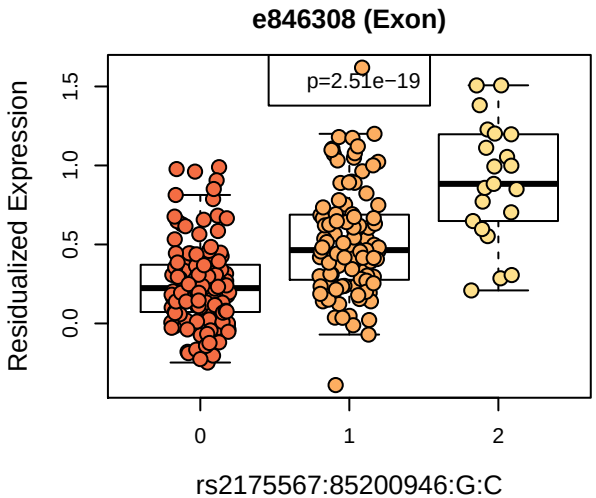
1
2
rs1051168


e846308 (Exon)
p=2.51e−19
Residualized Expression
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1.0
1.5
0
1
2
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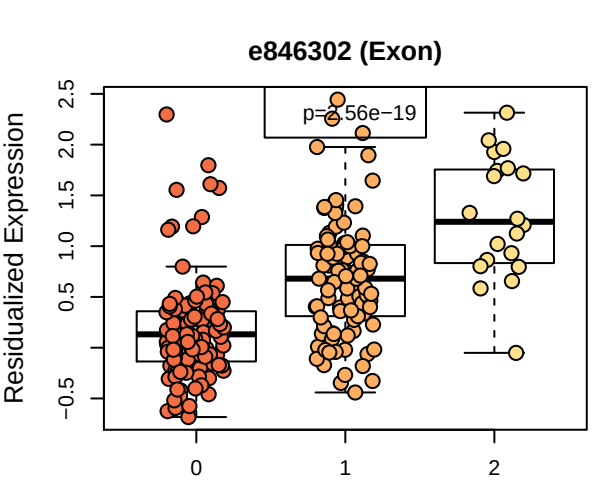
e846302 (Exon)
p=2.56e−19
Residualized Expression
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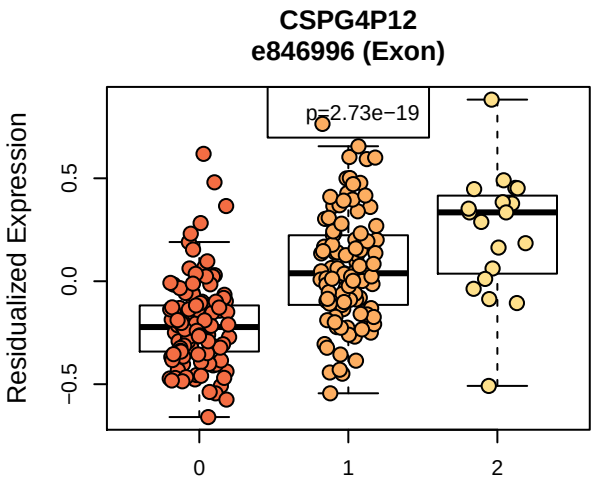
1.0
1.5
2.0
2.5
0
1
2
rs1061737:85183790:G:C


CSPG4P12
e846996 (Exon)
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Residualized Expression
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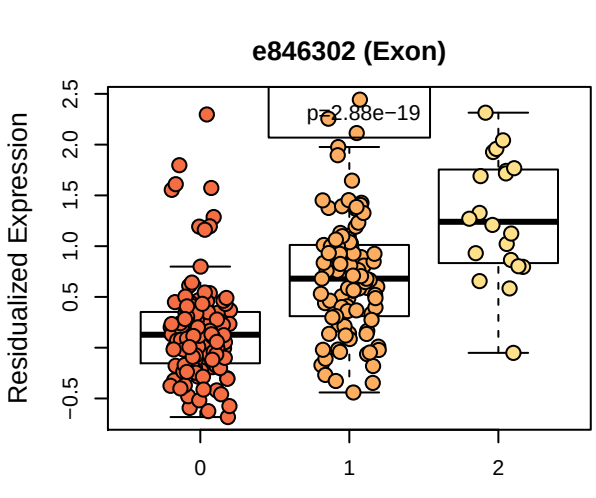
e846302 (Exon)
p=2.88e−19
Residualized Expression
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0.5
1.0
1.5
2.0
2.5
0
1
2
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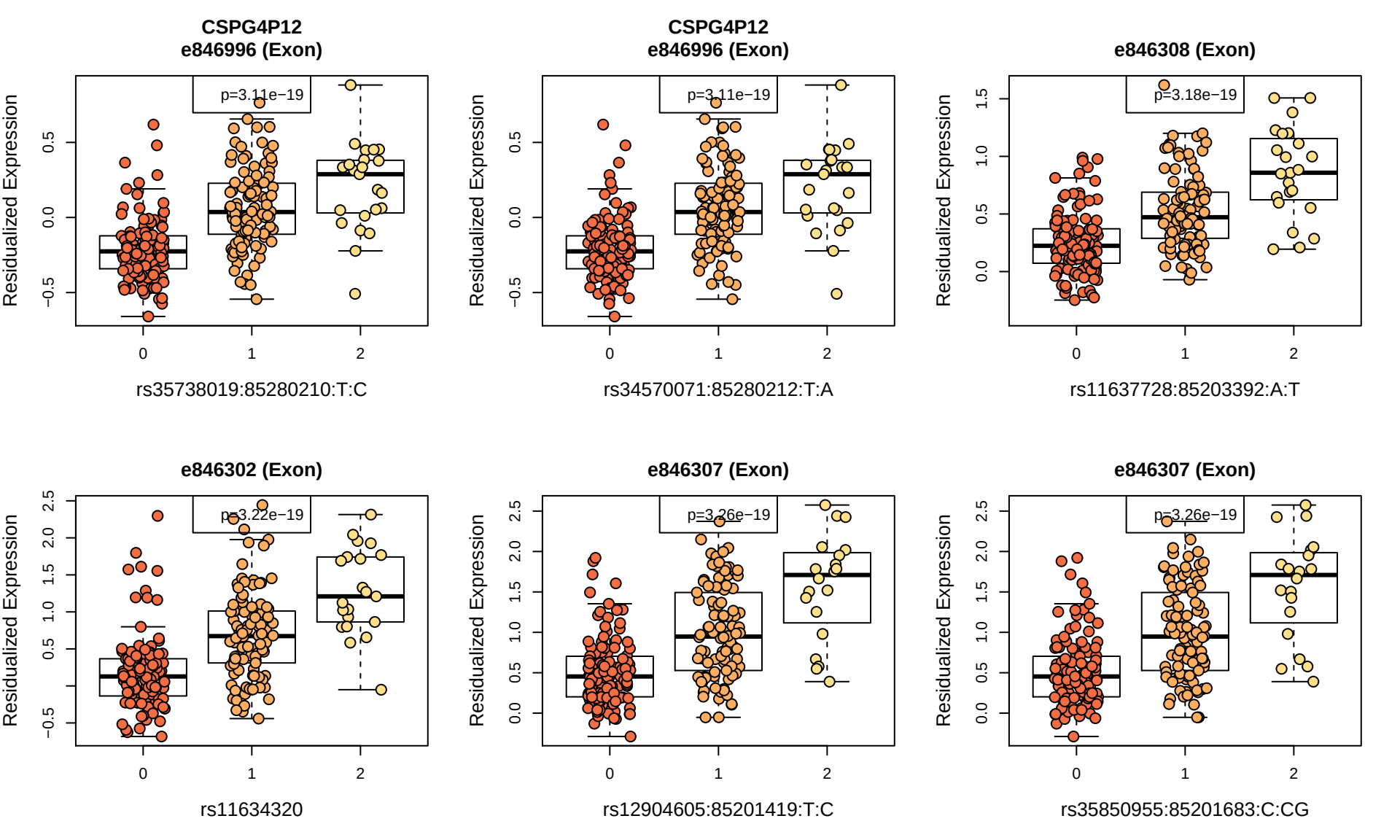
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p=3.11e−19
Residualized Expression
rs35738019:85280210:T:C
CSPG4P12
e846996 (Exon)
p=3.11e−19
Residualized Expression
rs34570071:85280212:T:A
e846308 (Exon)
p=3.18e−19
Residualized Expression
rs11637728:85203392:A:T
e846302 (Exon)
p=3.22e−19
Residualized Expression
rs11634320
e846307 (Exon)
p=3.26e−19
Residualized Expression
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Residualized Expression
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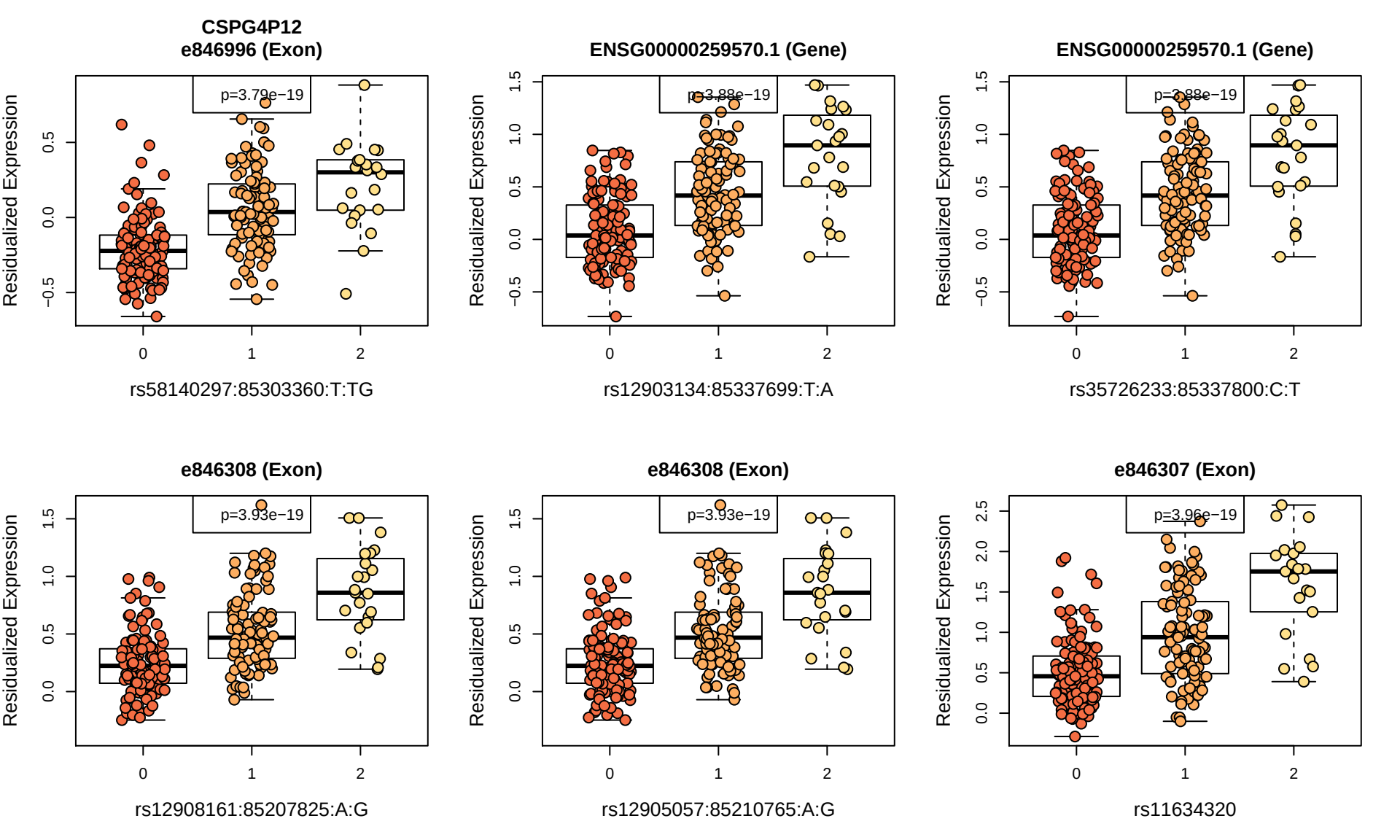
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Residualized Expression
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ENSG00000259570.1 (Gene)
p=3.88e−19
Residualized Expression
rs12903134:85337699:T:A
ENSG00000259570.1 (Gene)
p=3.88e−19
Residualized Expression
rs35726233:85337800:C:T
e846308 (Exon)
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Residualized Expression
rs12908161:85207825:A:G
e846308 (Exon)
p=3.93e−19
Residualized Expression
rs12905057:85210765:A:G
e846307 (Exon)
p=3.96e−19
Residualized Expression
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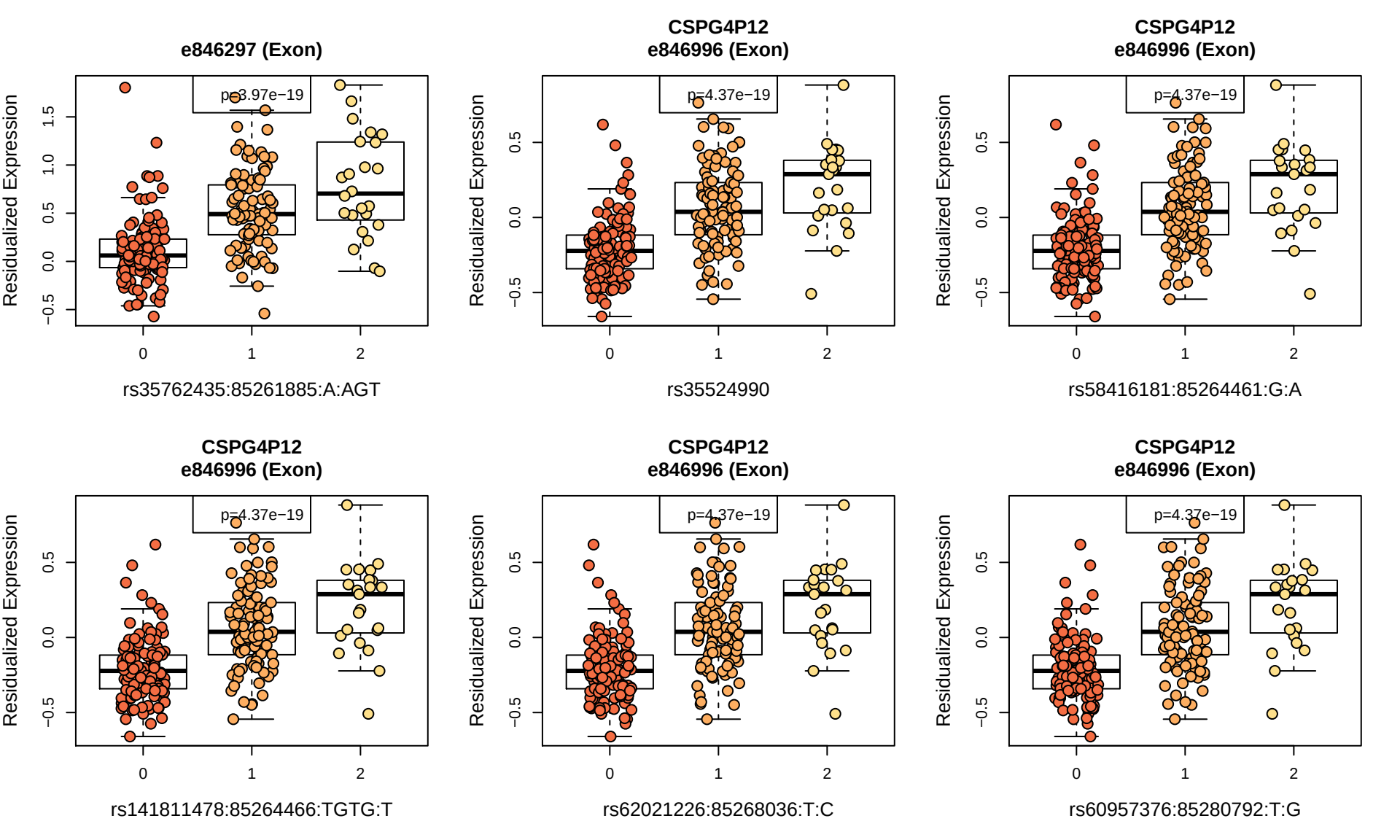
e846297 (Exon)
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Residualized Expression
rs35762435:85261885:A:AGT
CSPG4P12
e846996 (Exon)
p=4.37e−19
Residualized Expression
rs35524990
CSPG4P12
e846996 (Exon)
p=4.37e−19
Residualized Expression
rs58416181:85264461:G:A
CSPG4P12
e846996 (Exon)
p=4.37e−19
Residualized Expression
rs141811478:85264466:TGTG:T
CSPG4P12
e846996 (Exon)
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Residualized Expression
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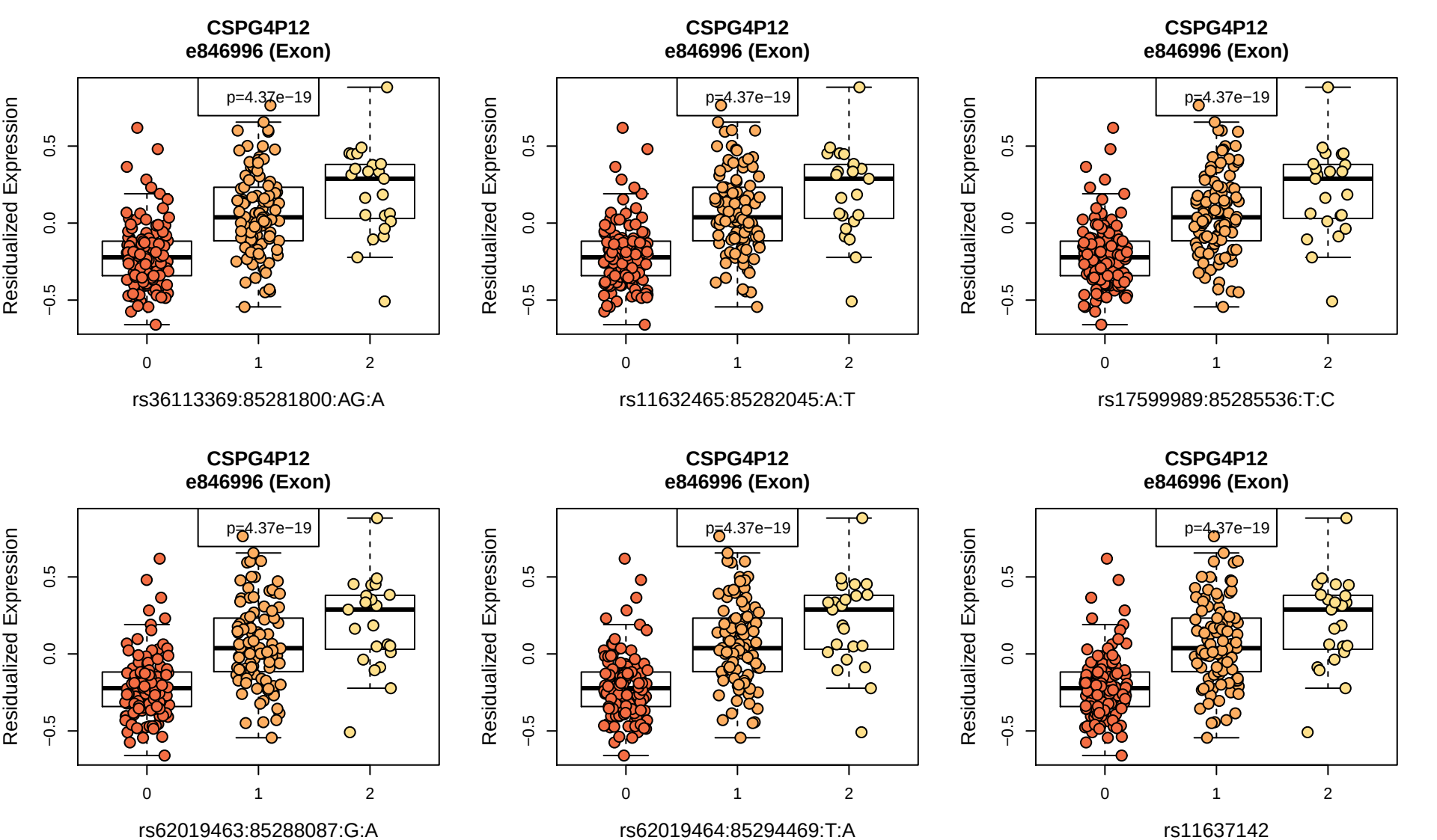
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Residualized Expression
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CSPG4P12
e846996 (Exon)
p=4.37e−19
Residualized Expression
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0
1
2
rs11632465:85282045:A:T
CSPG4P12
e846996 (Exon)
p=4.37e−19
Residualized Expression
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2
rs17599989:85285536:T:C
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e846996 (Exon)
p=4.37e−19
Residualized Expression
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rs62019463:85288087:G:A
CSPG4P12
e846996 (Exon)
p=4.37e−19
Residualized Expression
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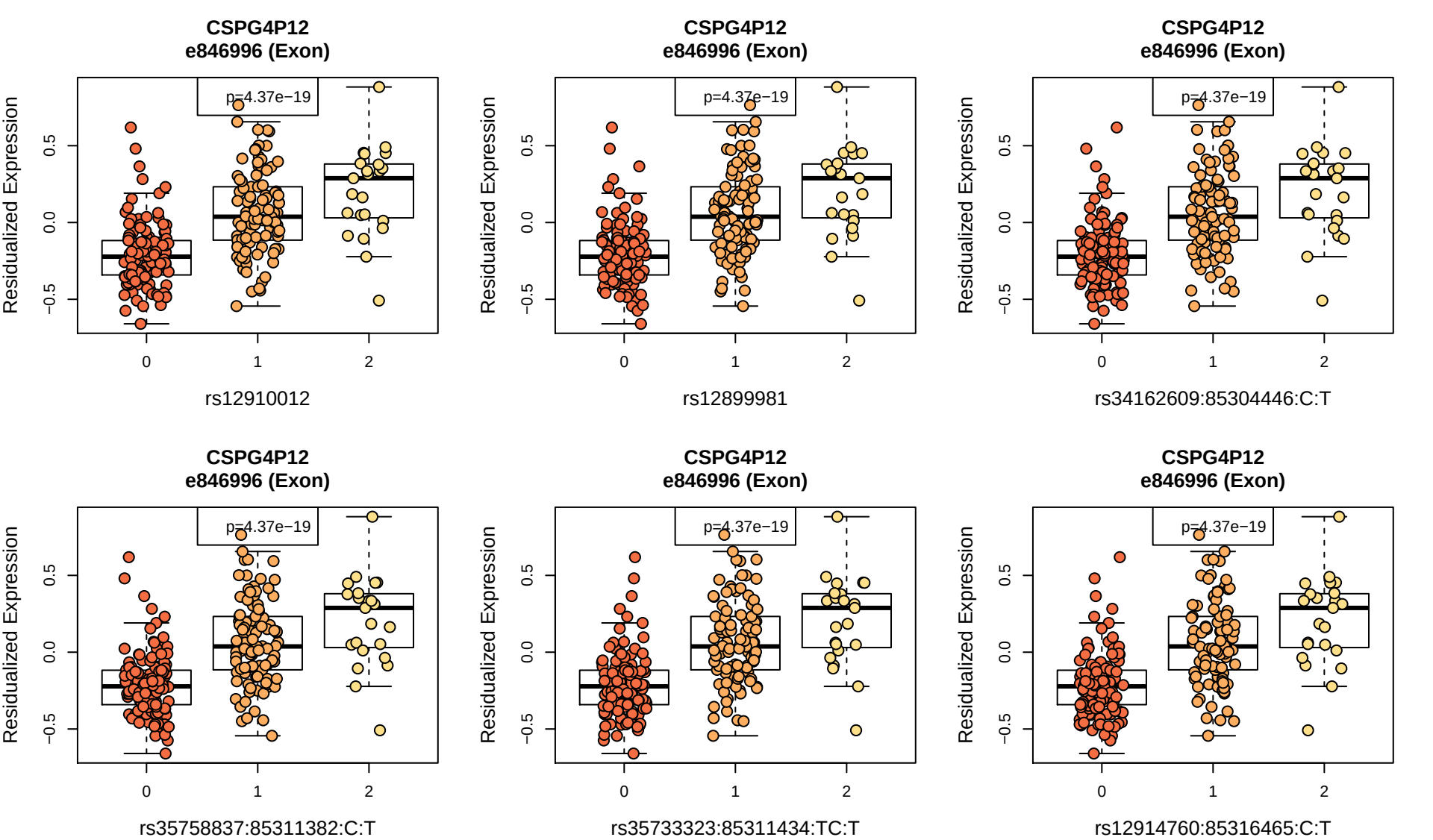
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e846996 (Exon)
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Residualized Expression
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CSPG4P12
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Residualized Expression
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CSPG4P12
e846996 (Exon)
p=4.37e−19
Residualized Expression
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rs35758837:85311382:C:T
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p=4.37e−19
Residualized Expression
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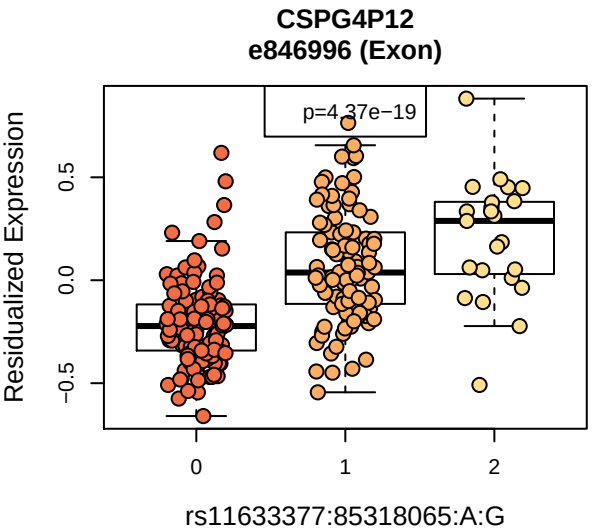
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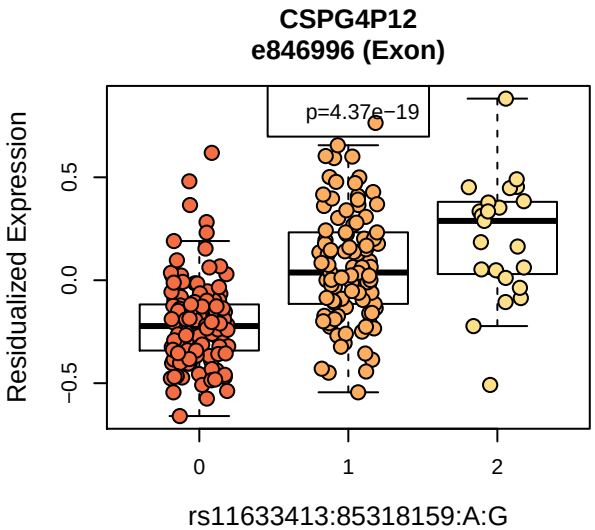
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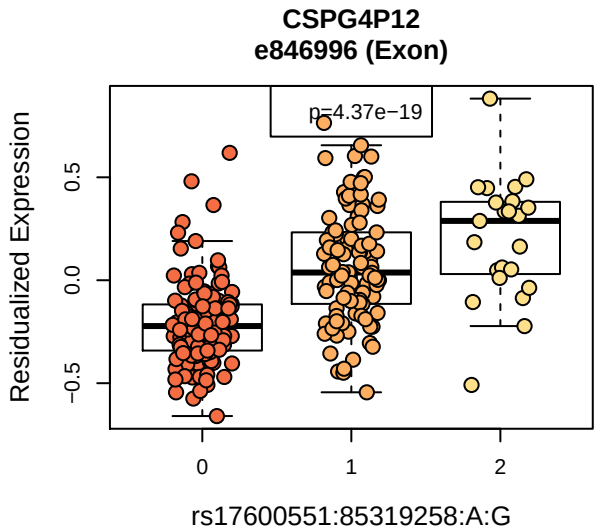
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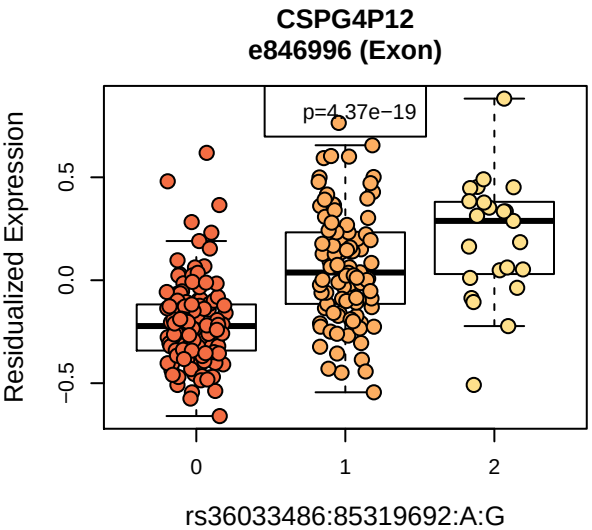
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Residualized Expression
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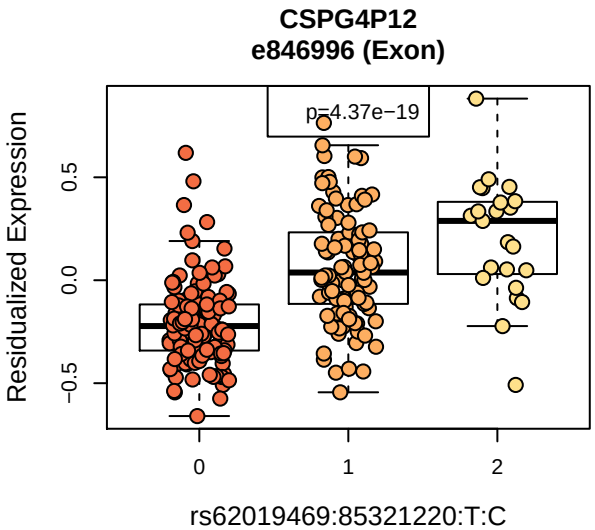
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Residualized Expression
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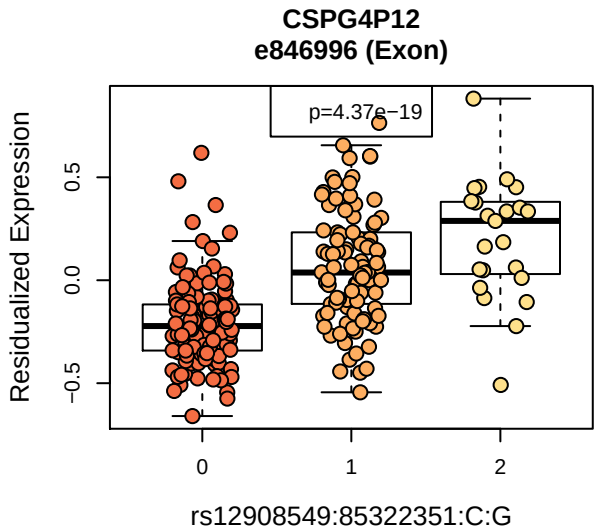
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Residualized Expression
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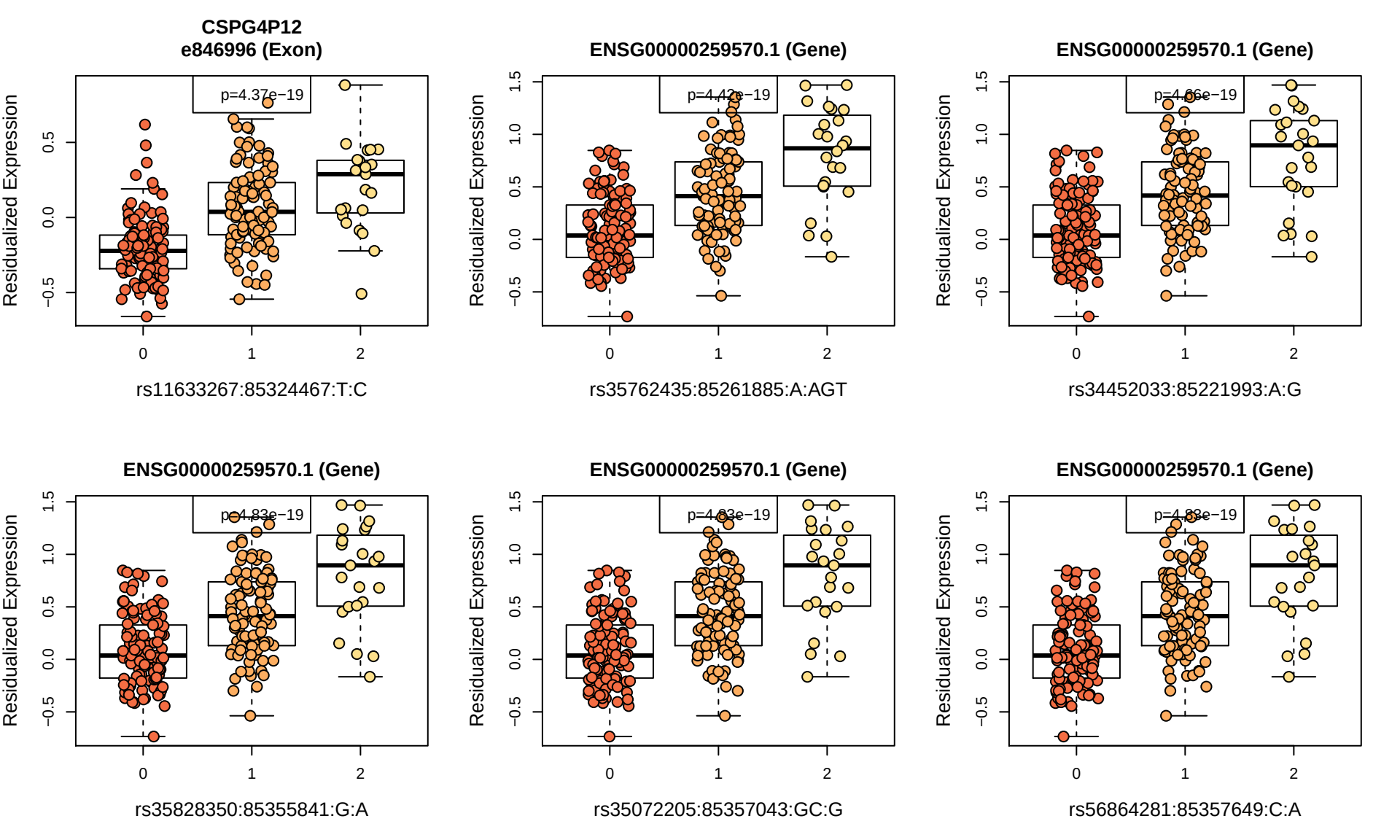
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e846996 (Exon)
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Residualized Expression
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ENSG00000259570.1 (Gene)
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ENSG00000259570.1 (Gene)
p=4.66e−19
rs34452033:85221993:A:G
ENSG00000259570.1 (Gene)
p=4.83e−19
rs35828350:85355841:G:A
ENSG00000259570.1 (Gene)
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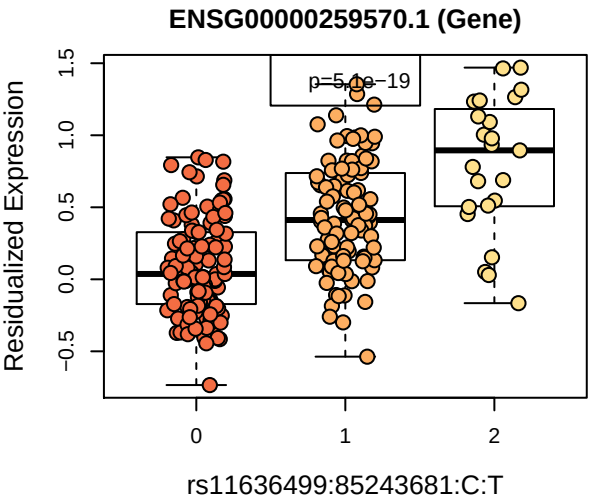
ENSG00000259570.1 (Gene)
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Residualized Expression
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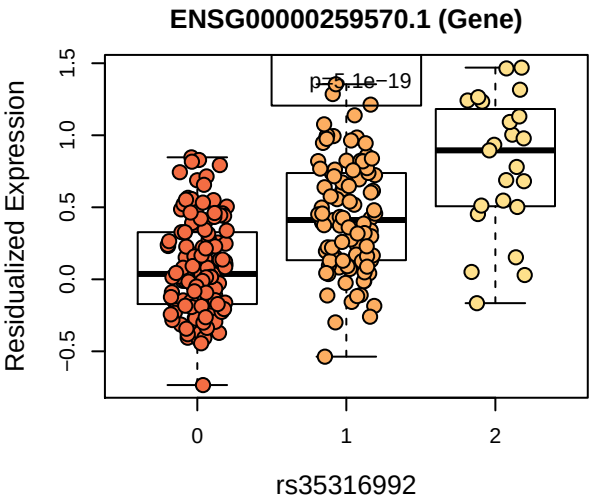
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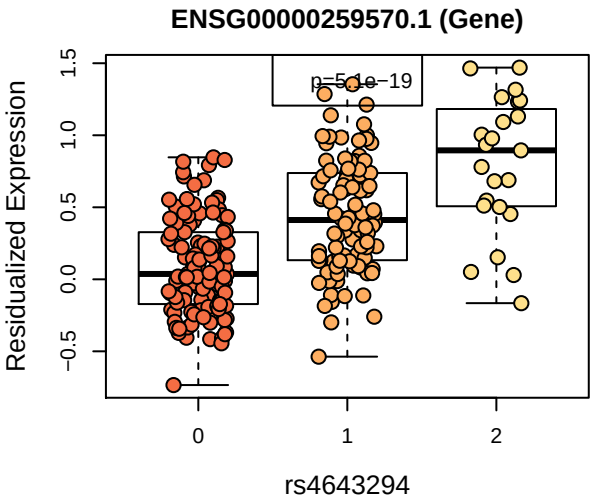
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Residualized Expression
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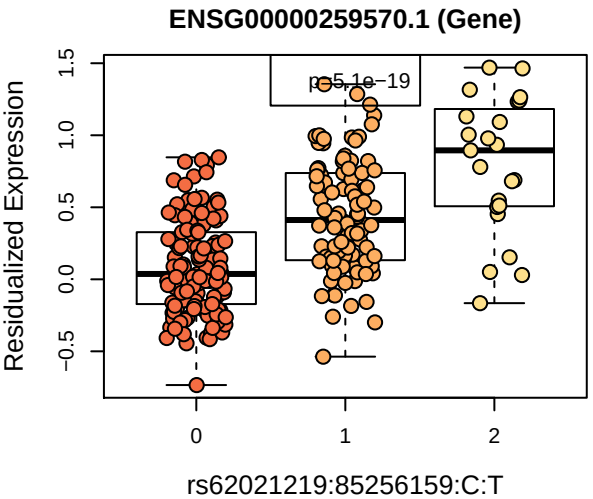
0.5
0.0
−0.5
0
1
2
rs4643294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Residualized Expression
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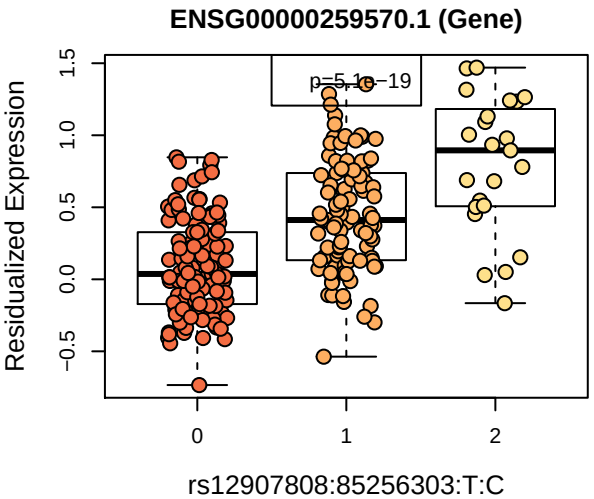
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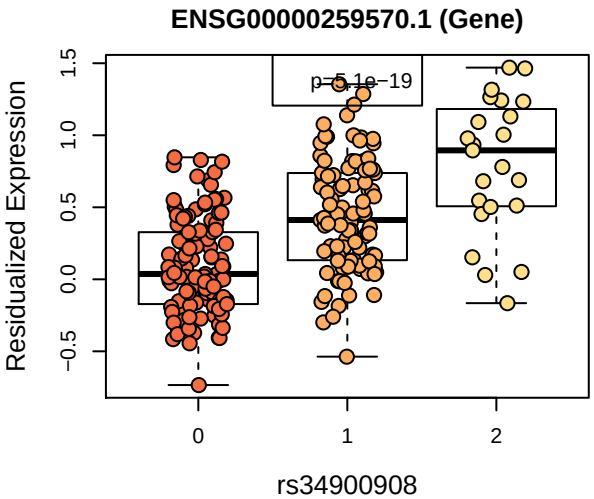
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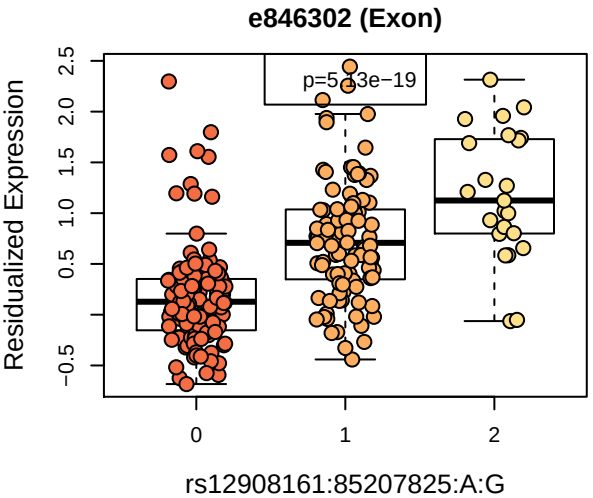
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1.5
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−0.5
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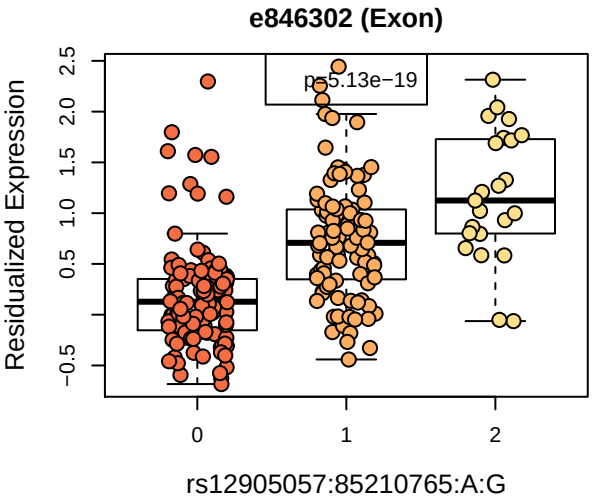
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1.5
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−0.5
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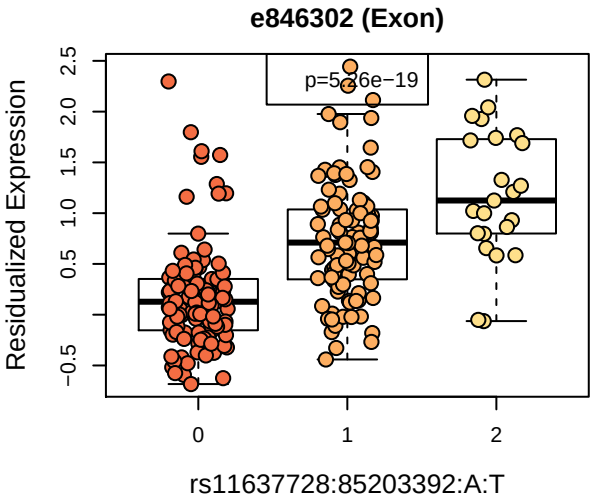
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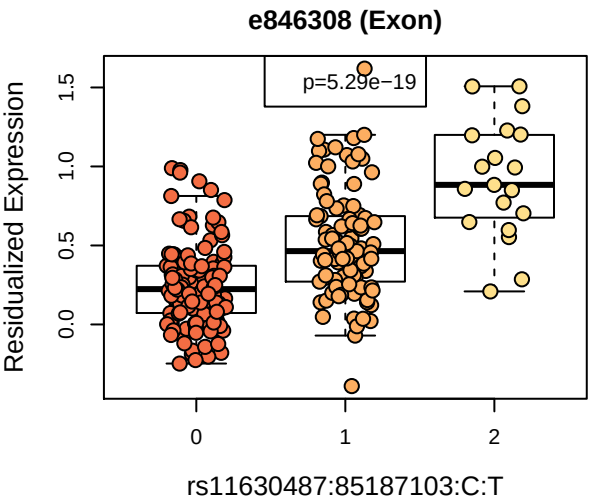
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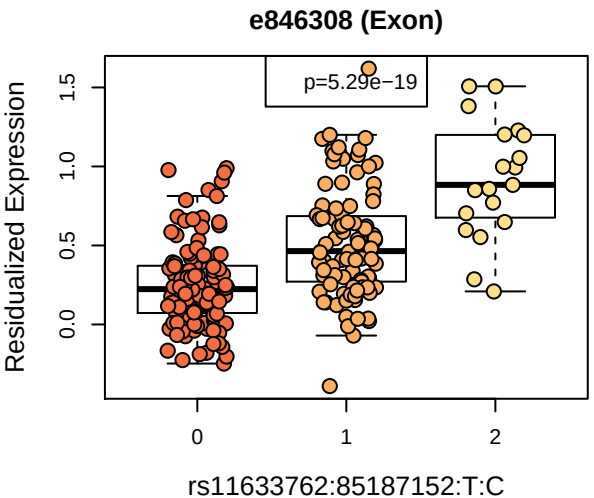
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0
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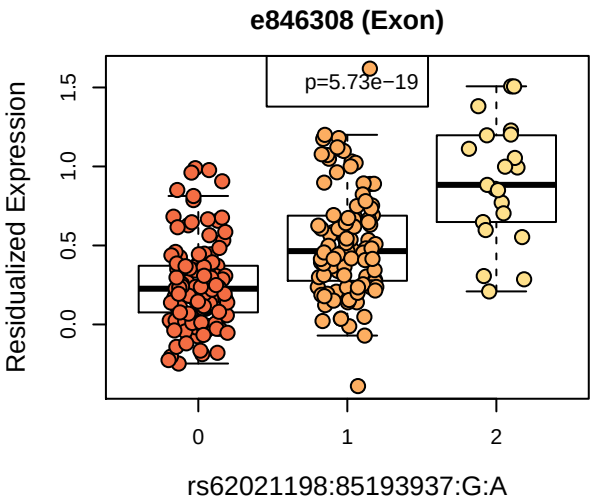
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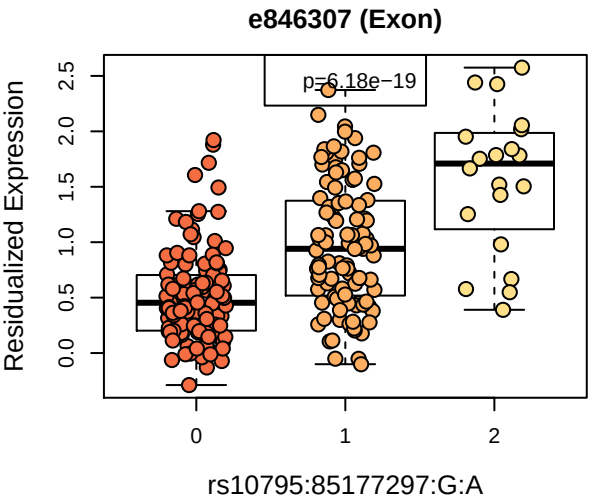
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Residualized Expression
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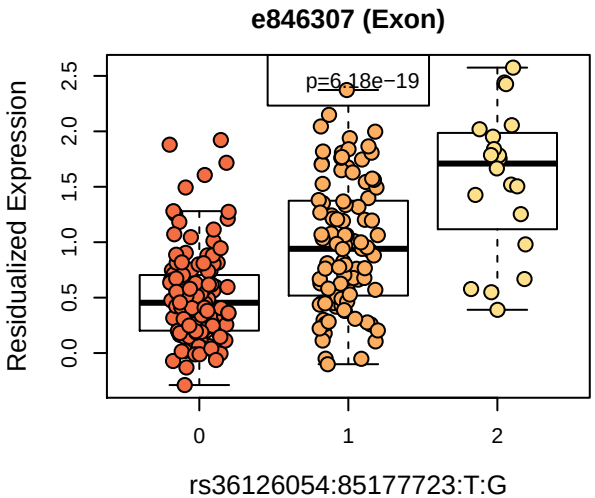
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Residualized Expression
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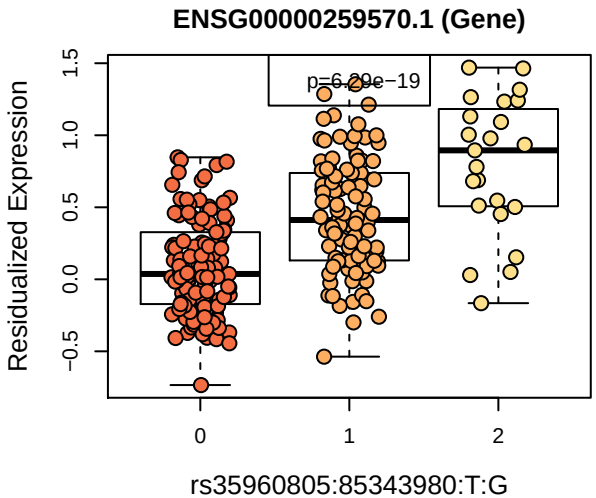
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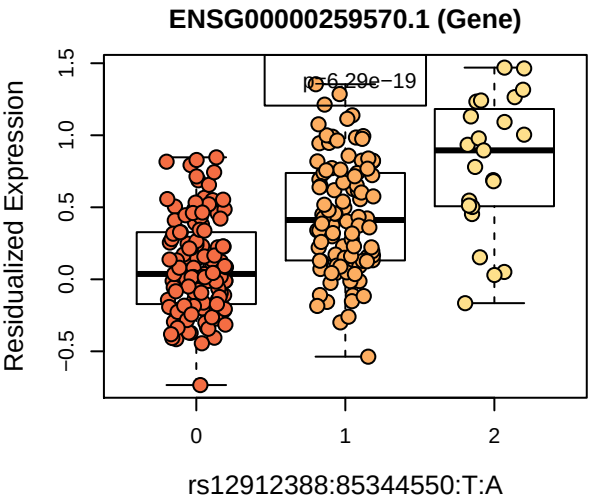
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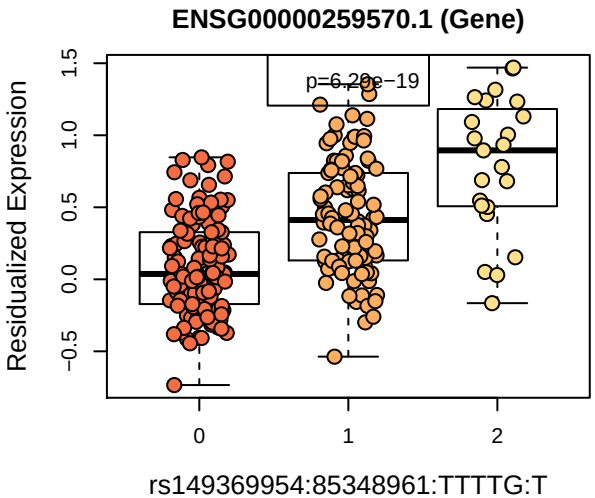
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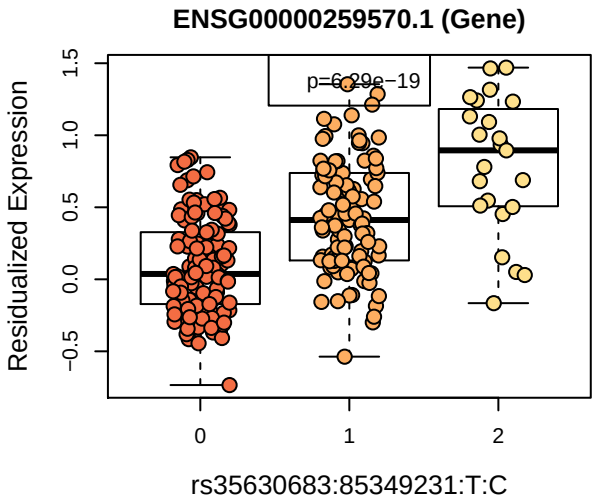
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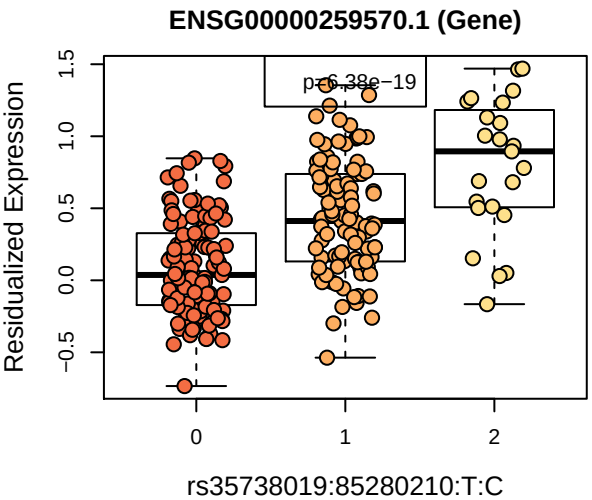
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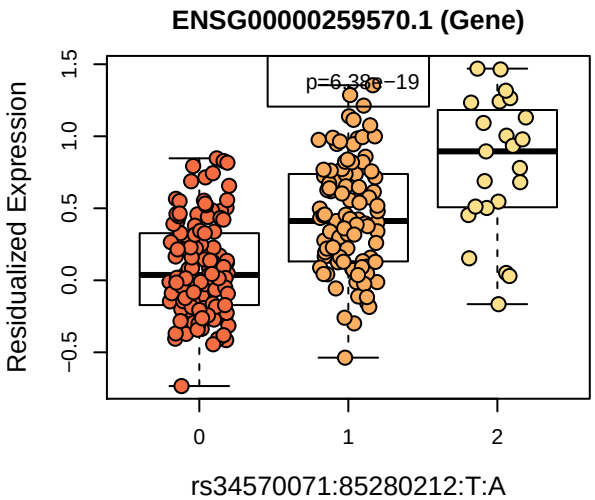
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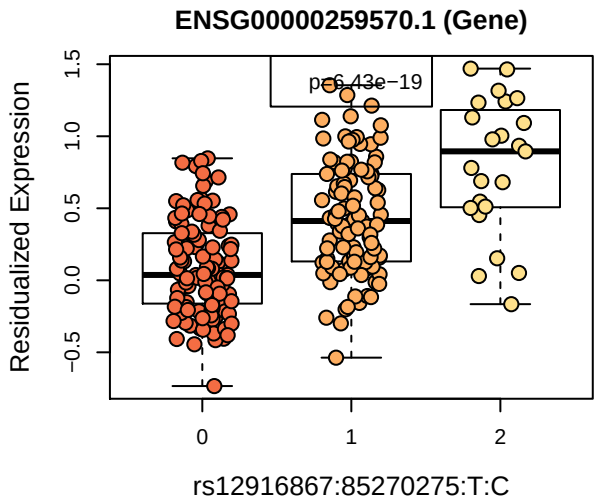
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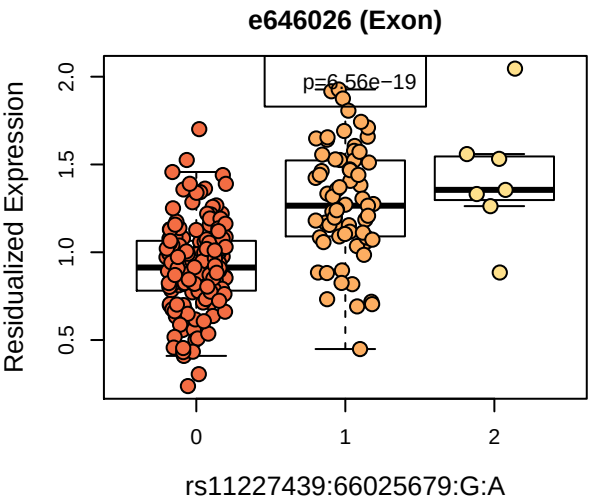
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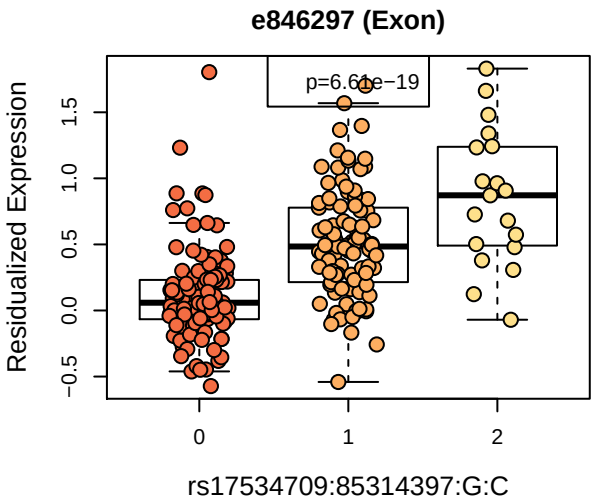
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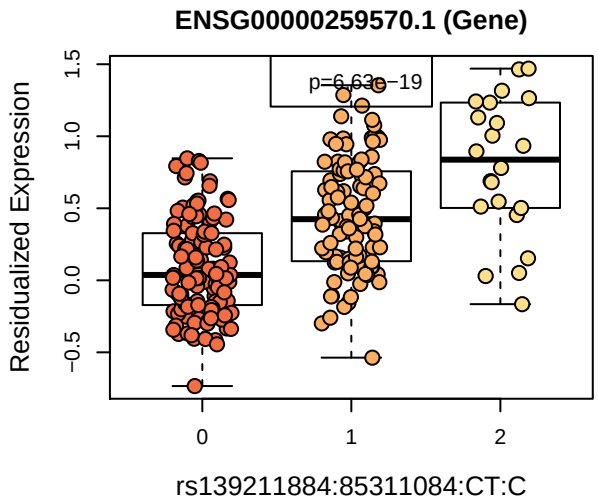
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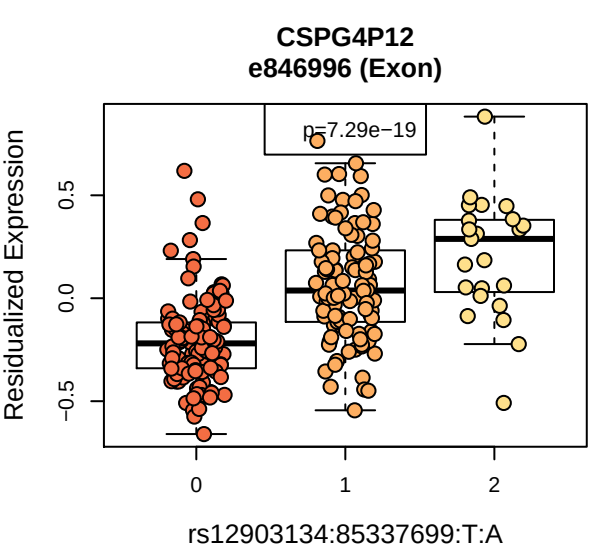
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Residualized Expression
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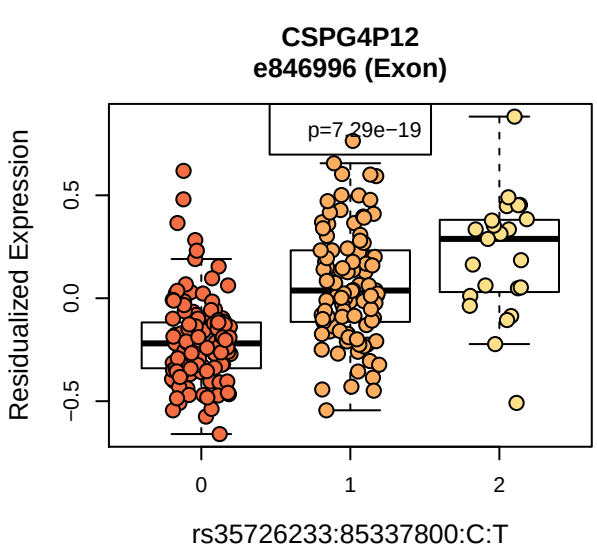
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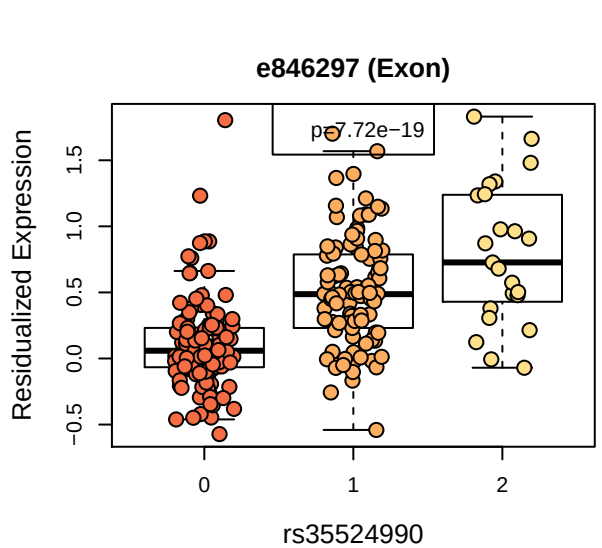
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Residualized Expression
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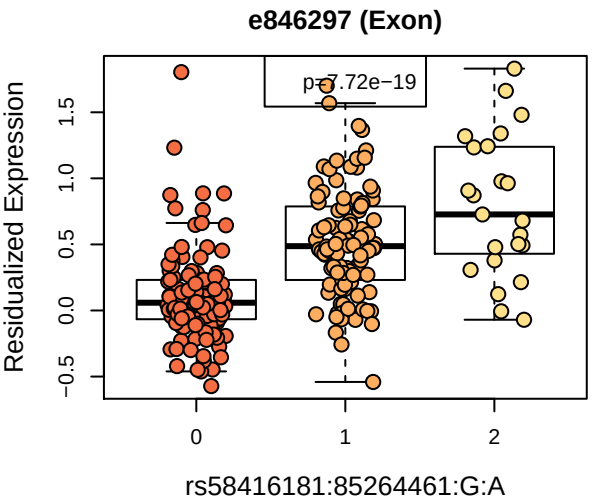
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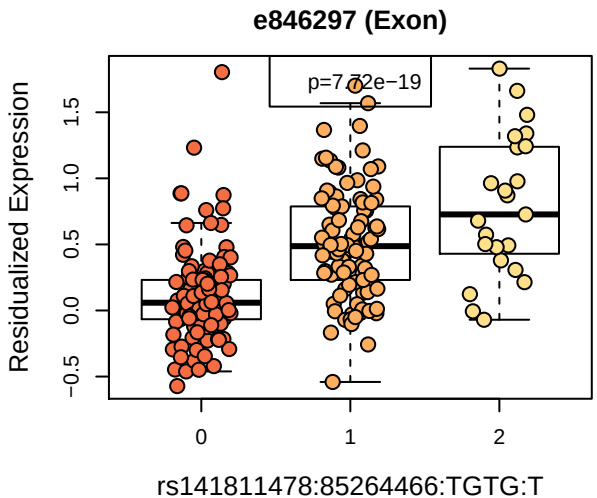
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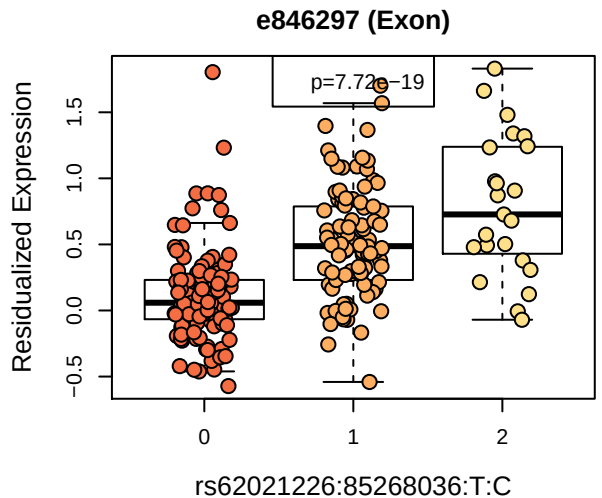
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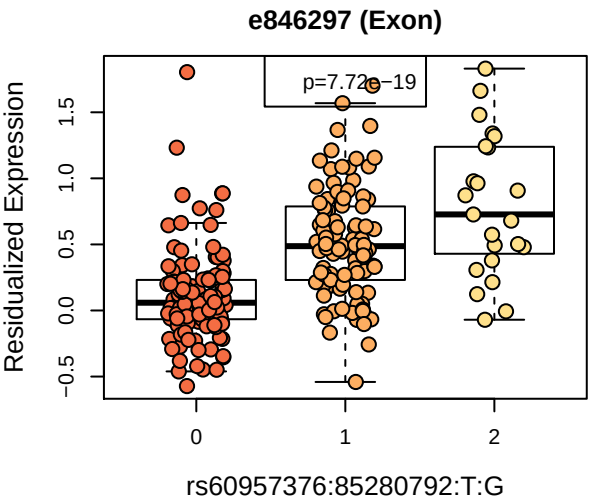
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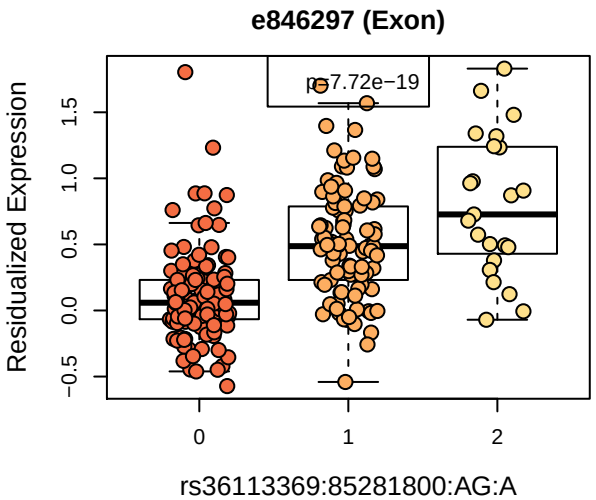
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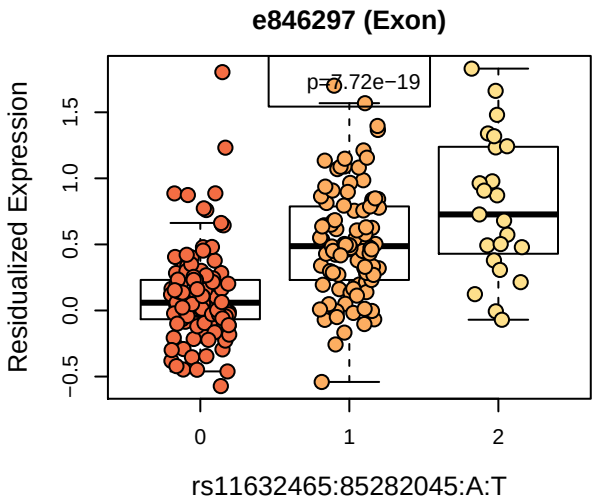
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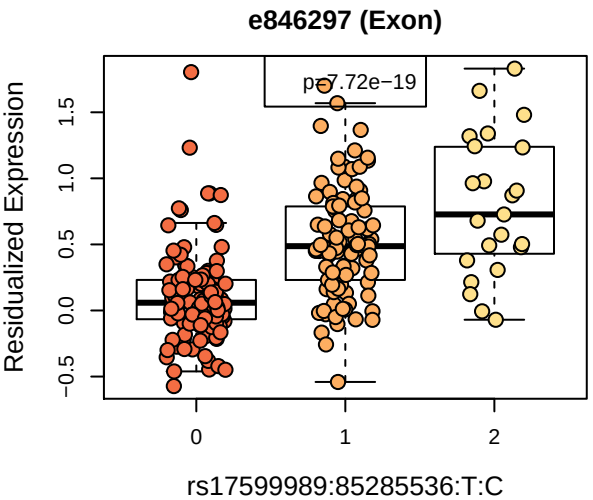
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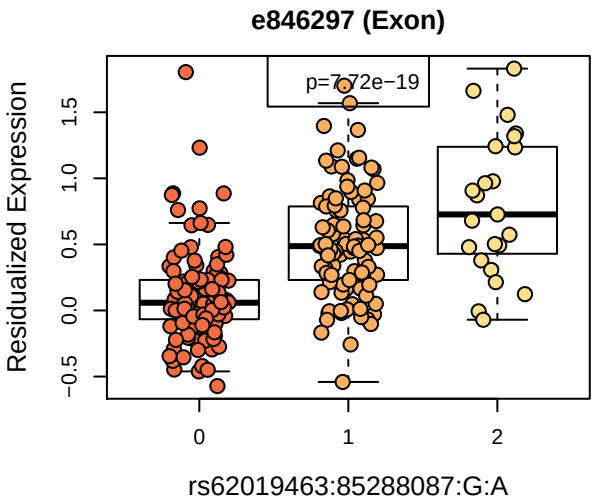
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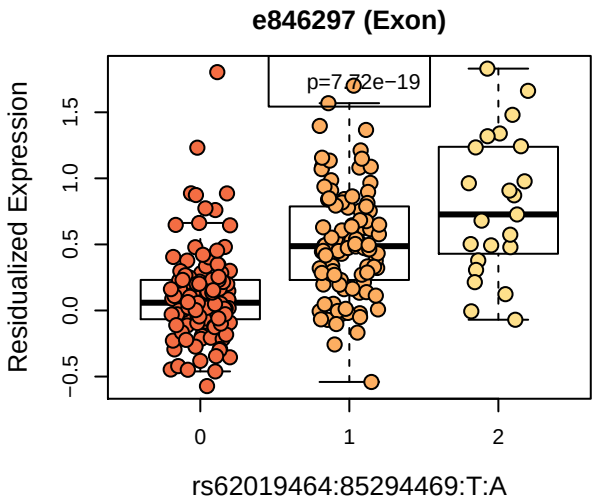
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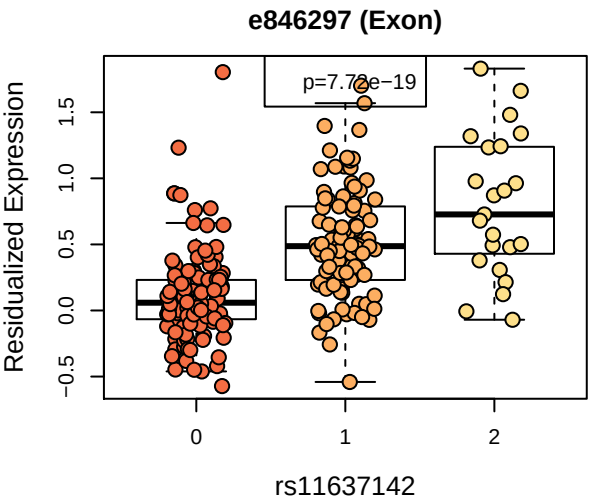
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1
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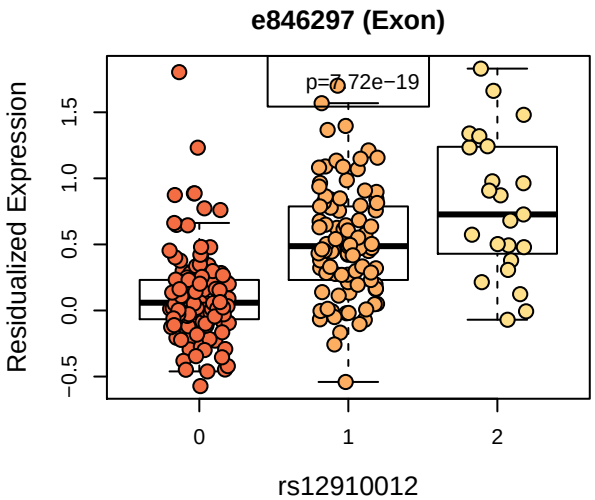
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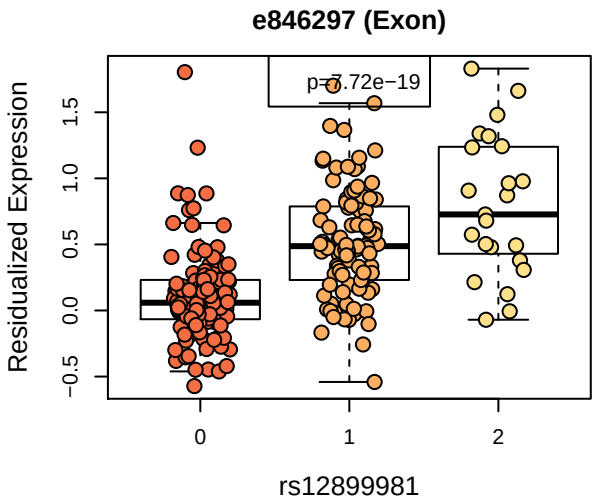
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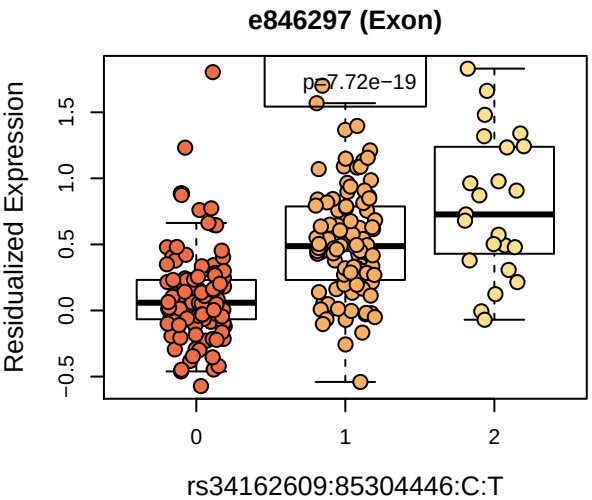
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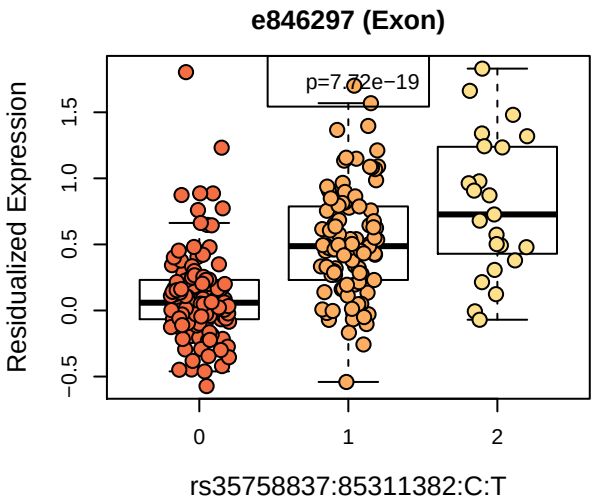
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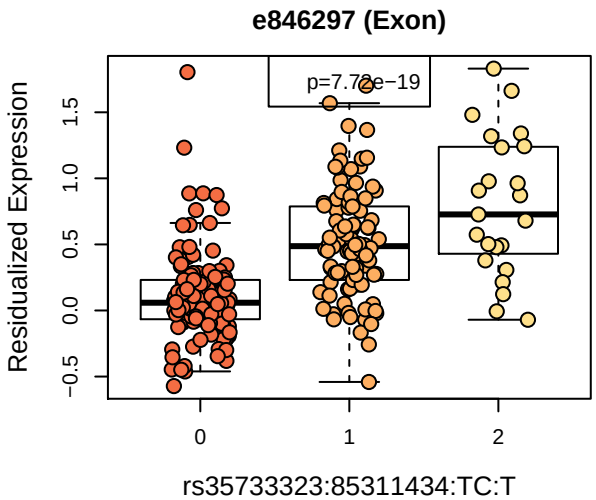
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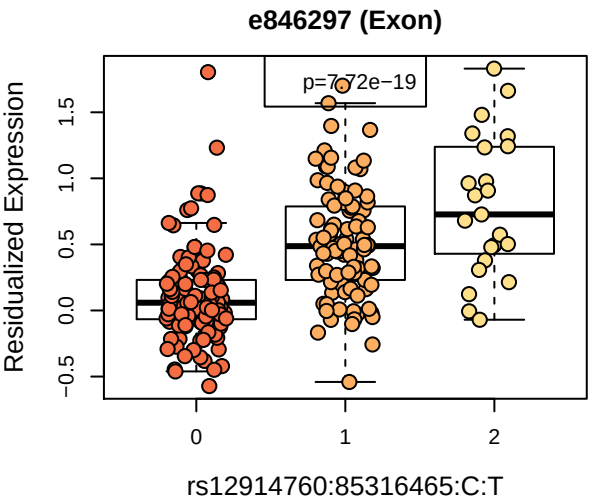
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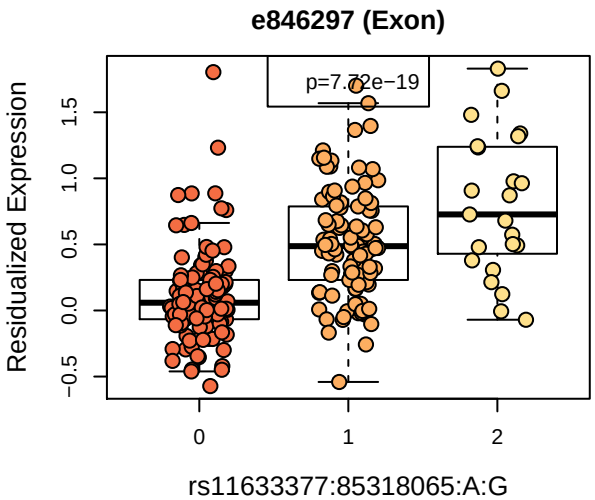
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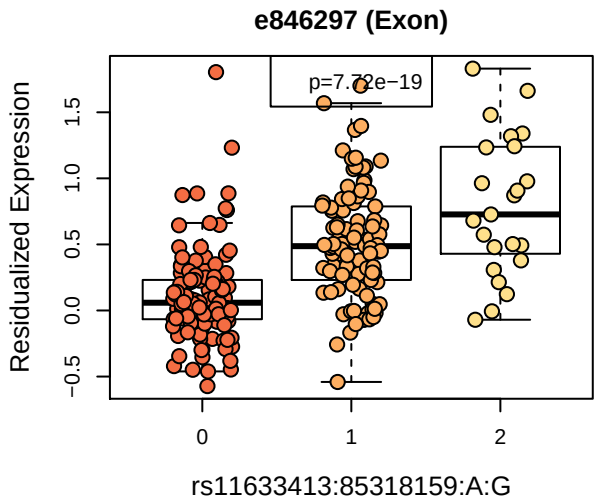
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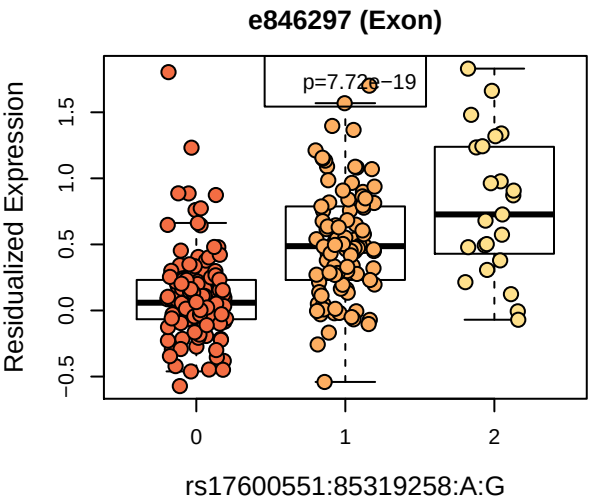
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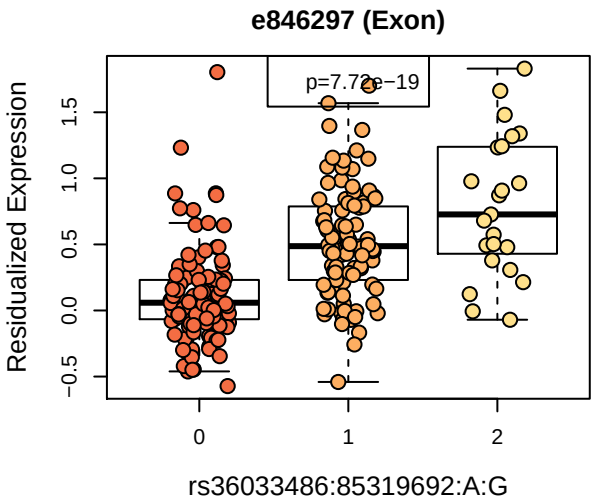
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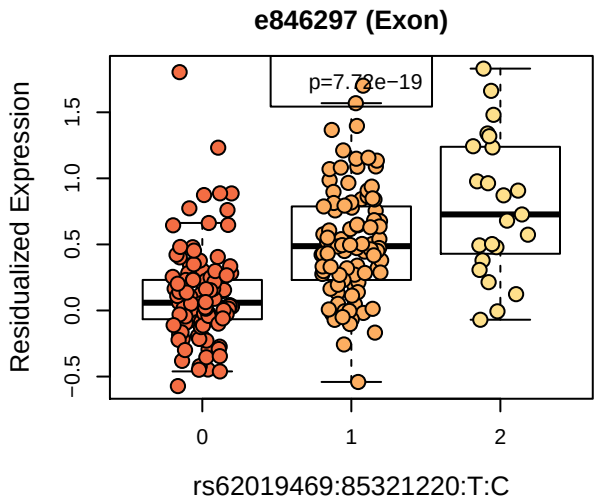
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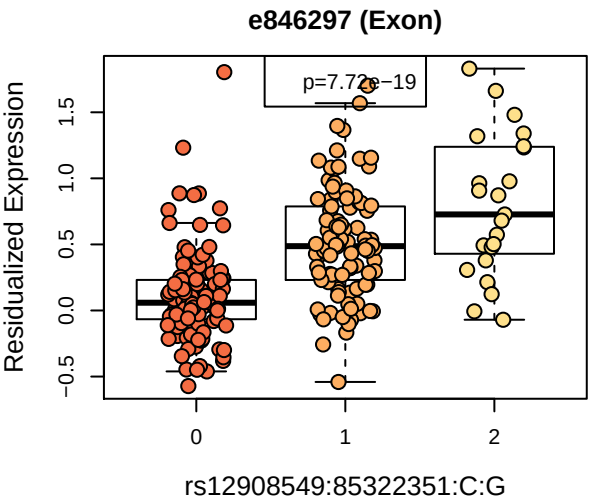
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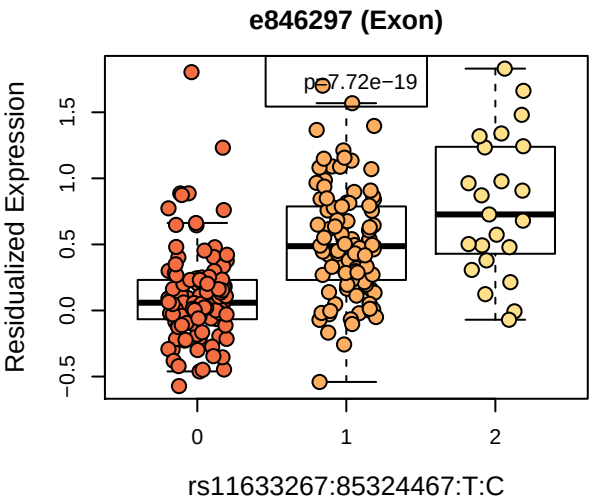
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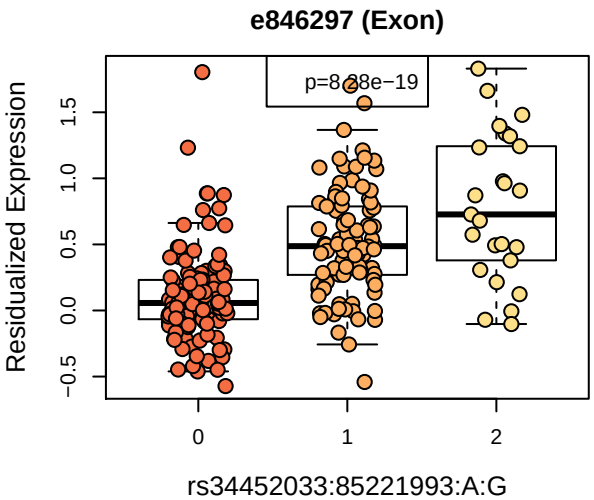
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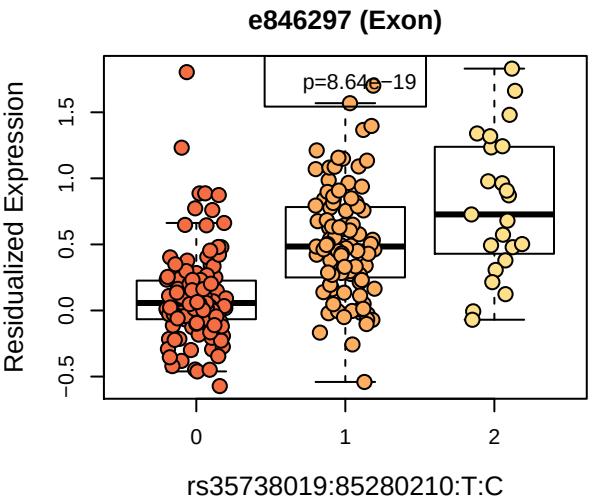
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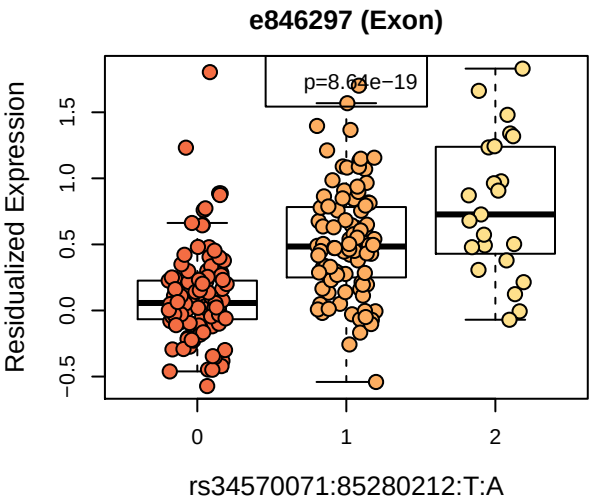
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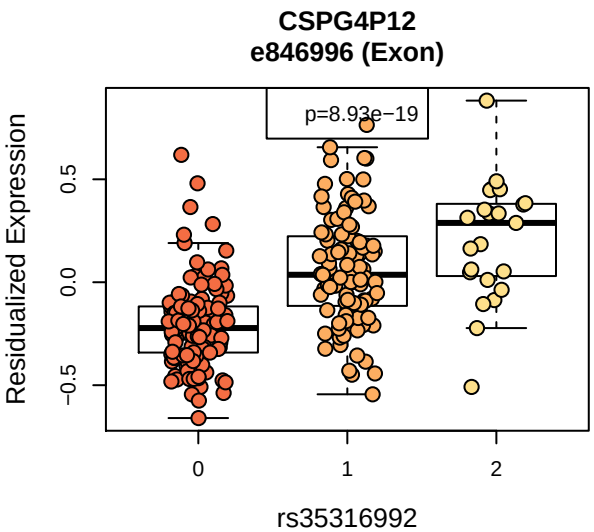
CSPG4P12
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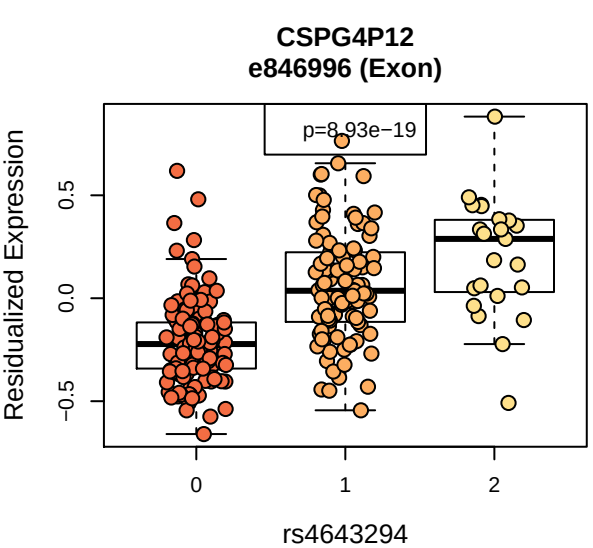
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Residualized Expression
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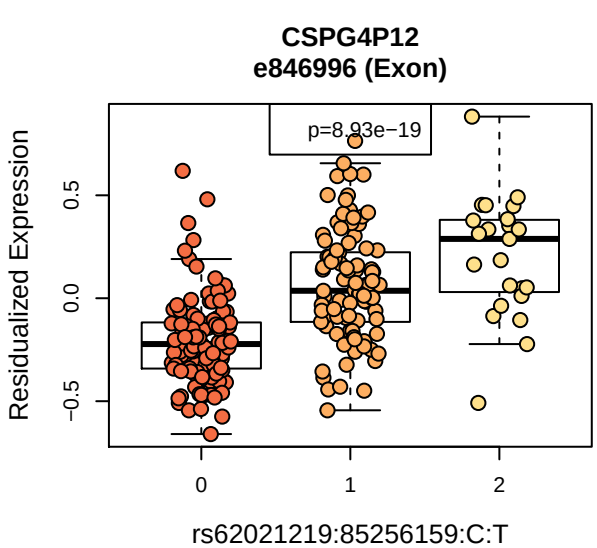
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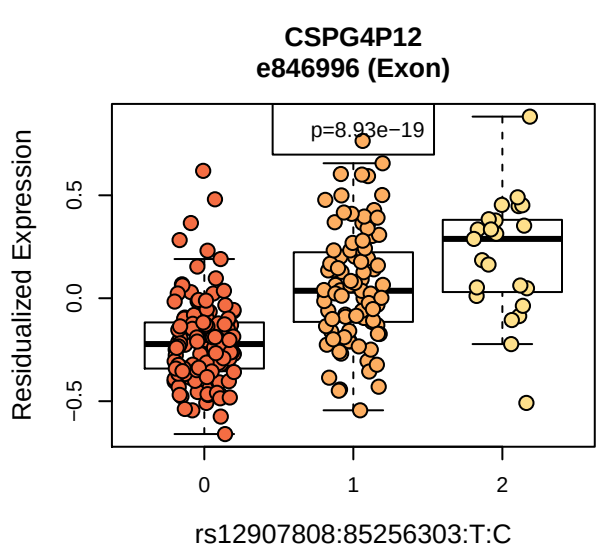
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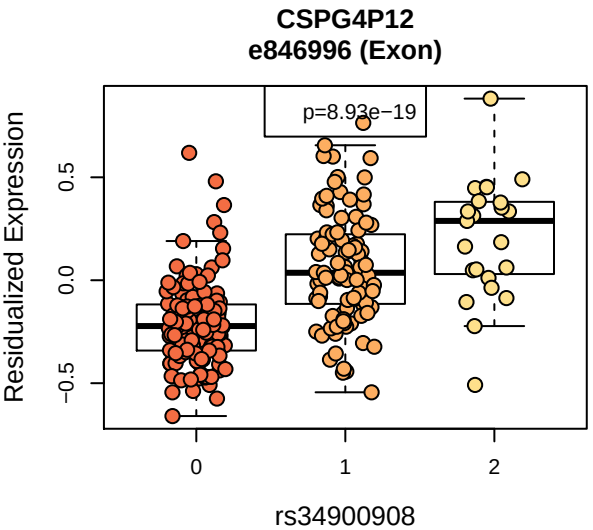
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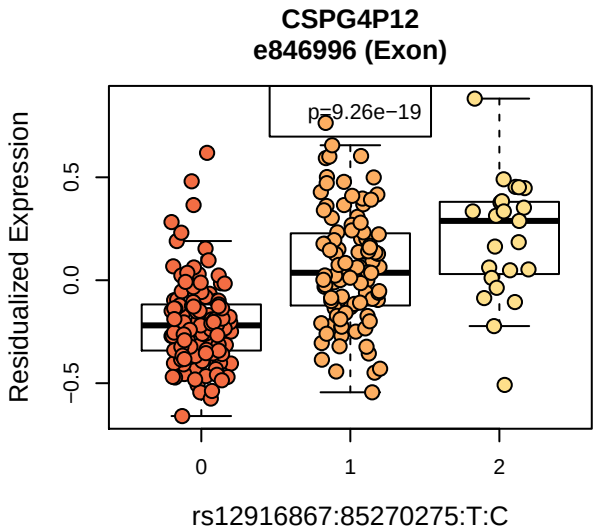
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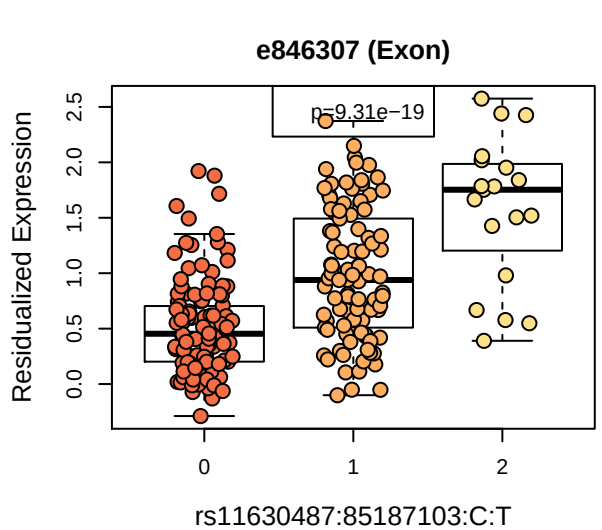
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Residualized Expression
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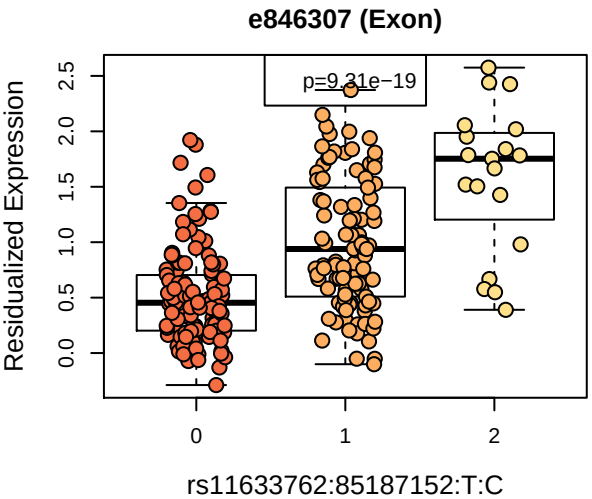
e846307 (Exon)
p=9.31e−19
Residualized Expression
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1.5
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2.5
0
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2
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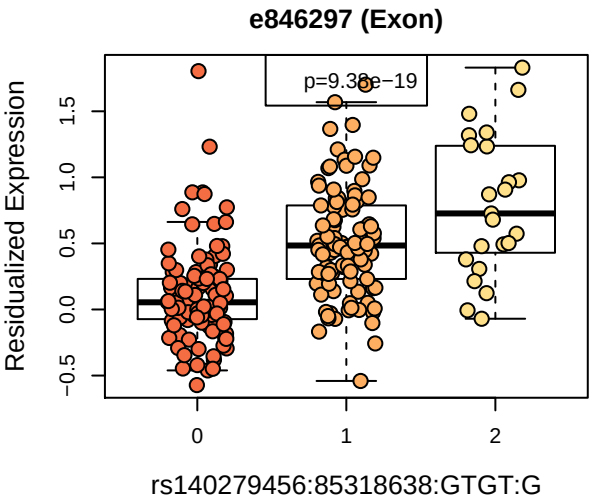
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1.5
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1
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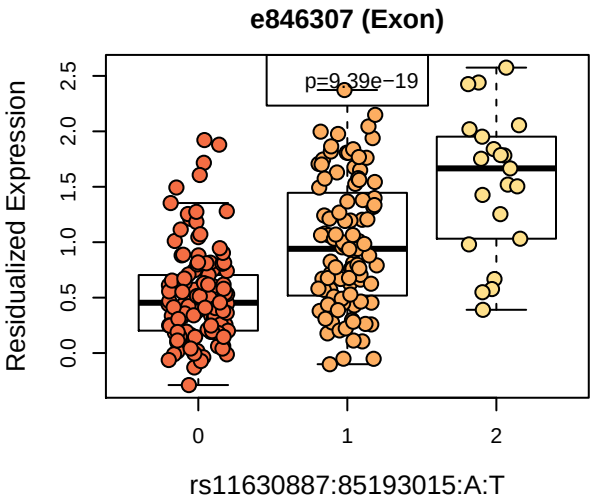
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0
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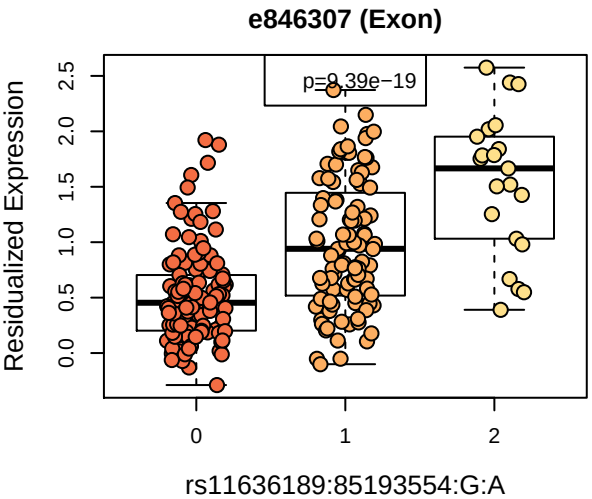
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0
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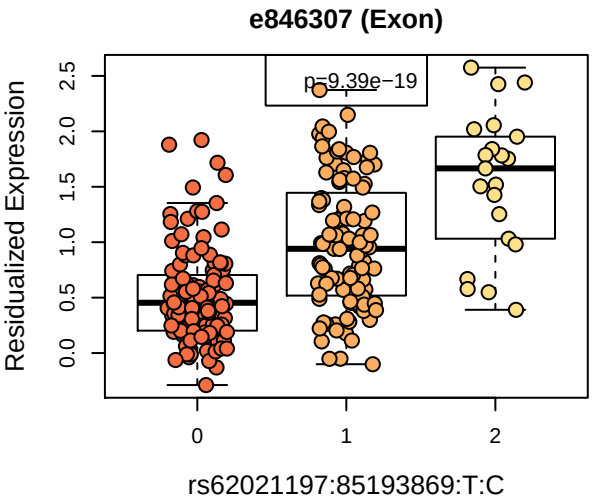
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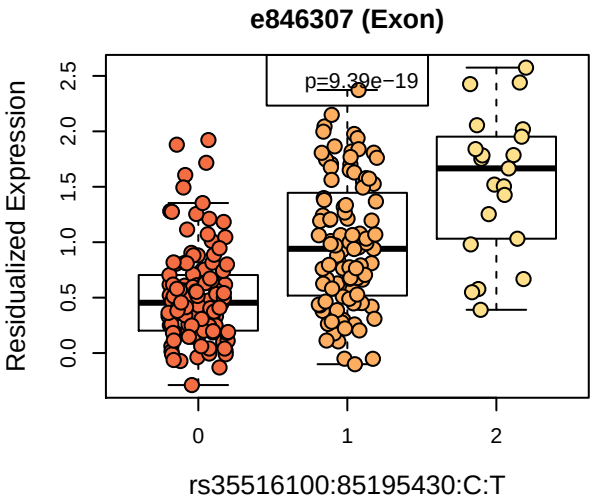
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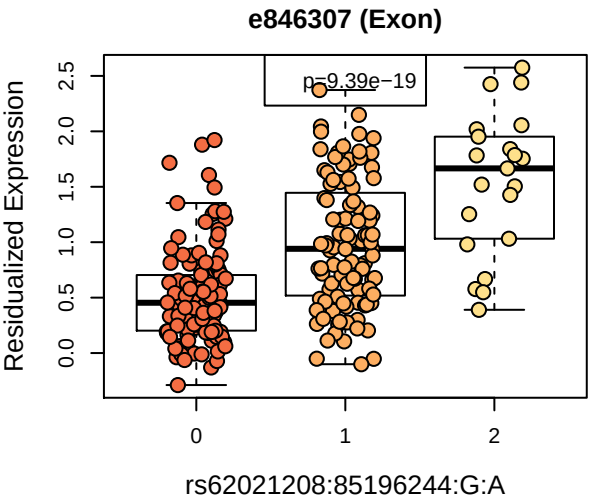
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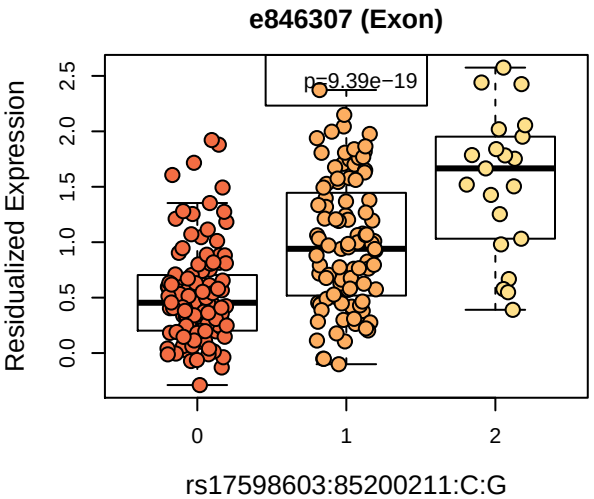
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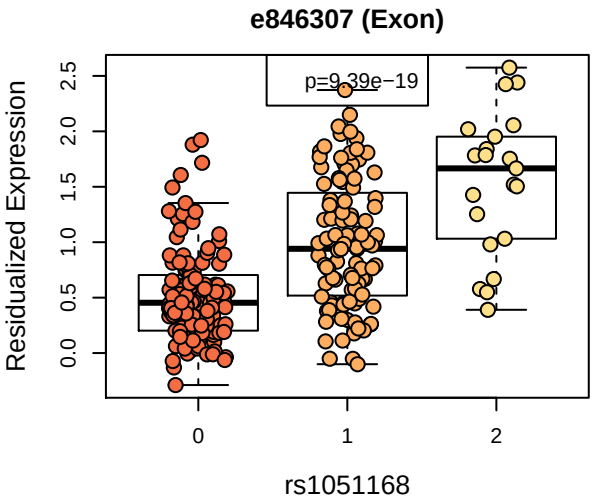
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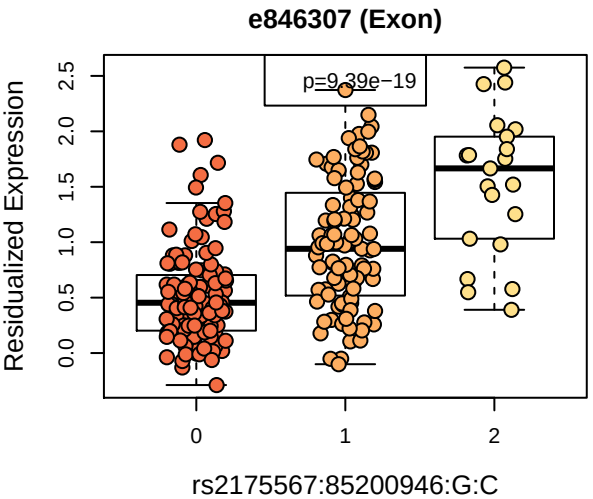
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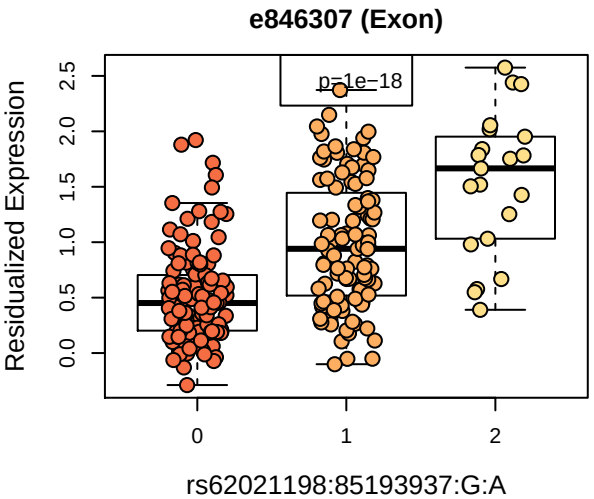
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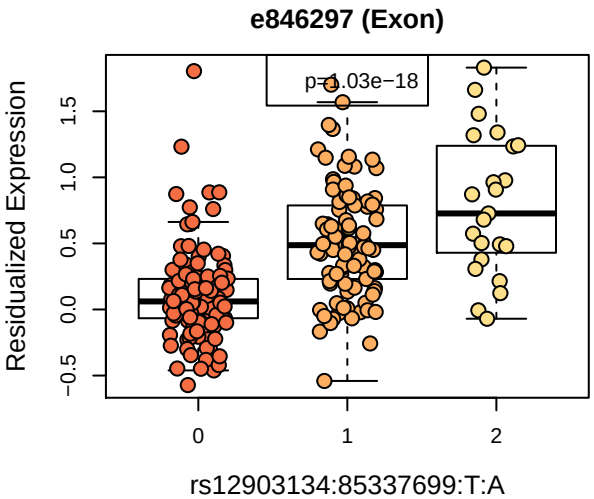
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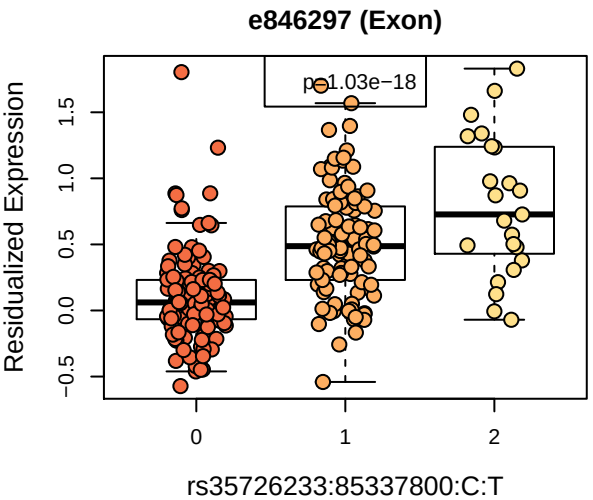
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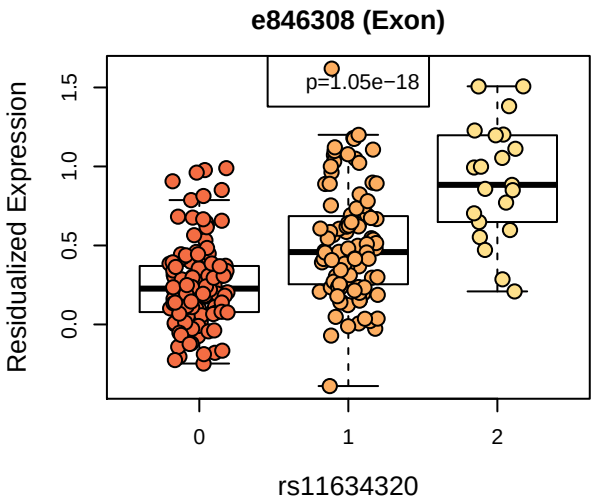
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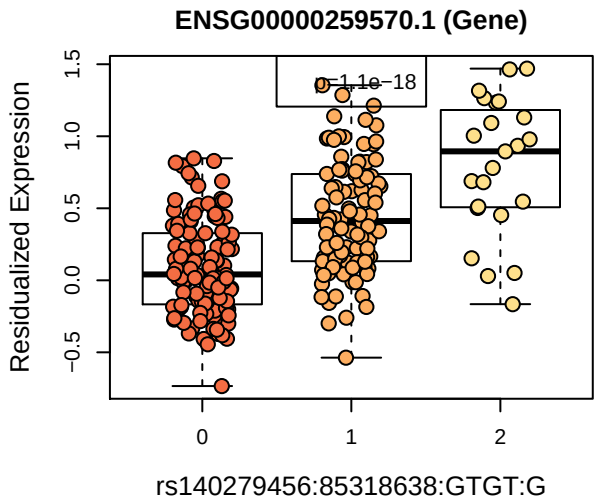
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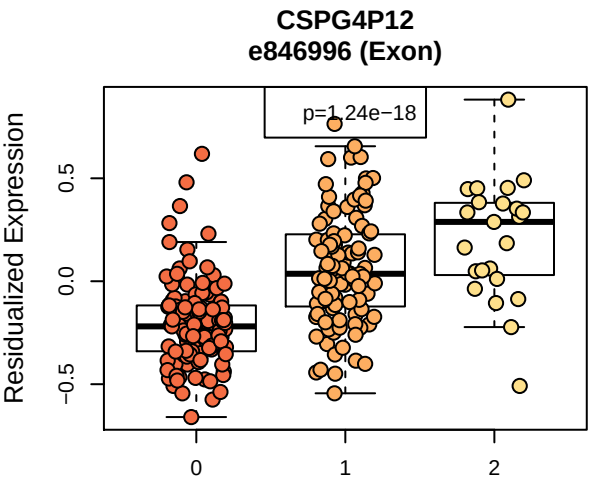
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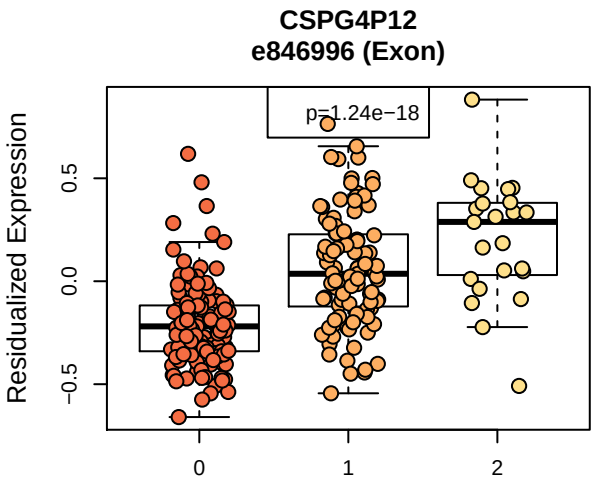
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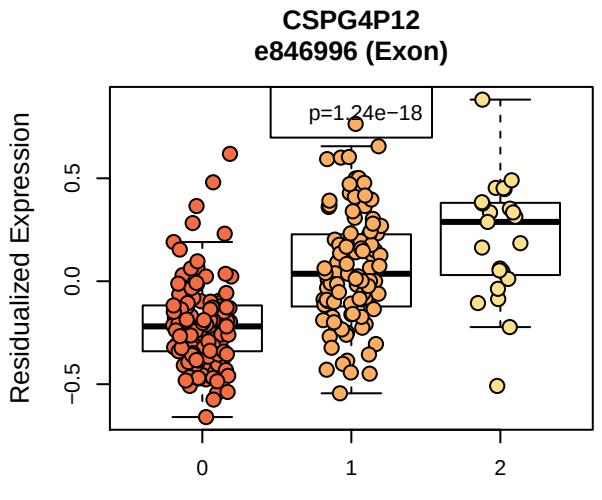
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Residualized Expression
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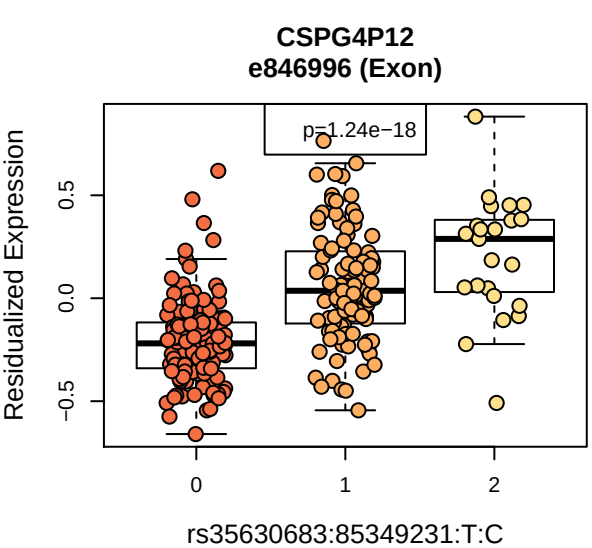
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Residualized Expression
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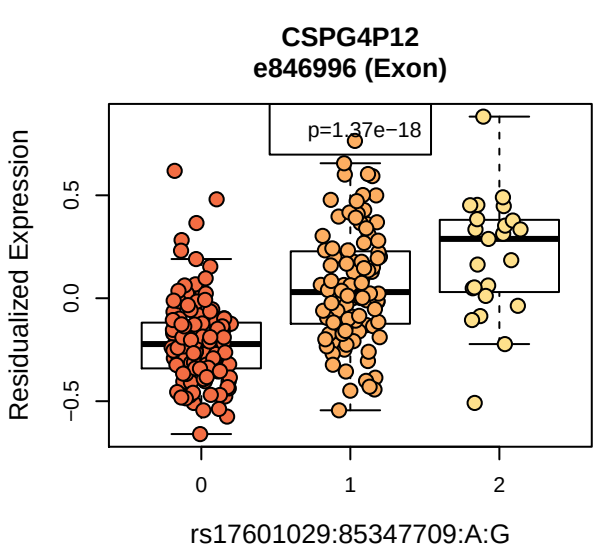
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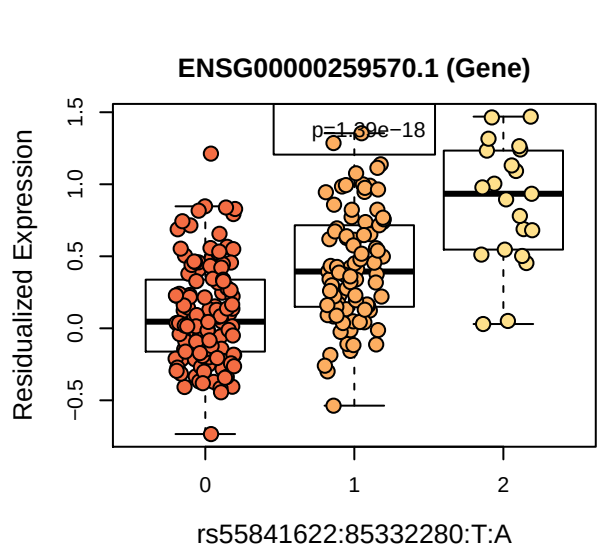
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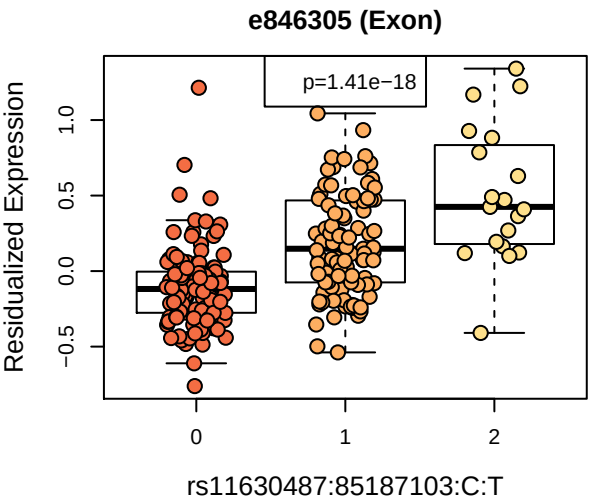
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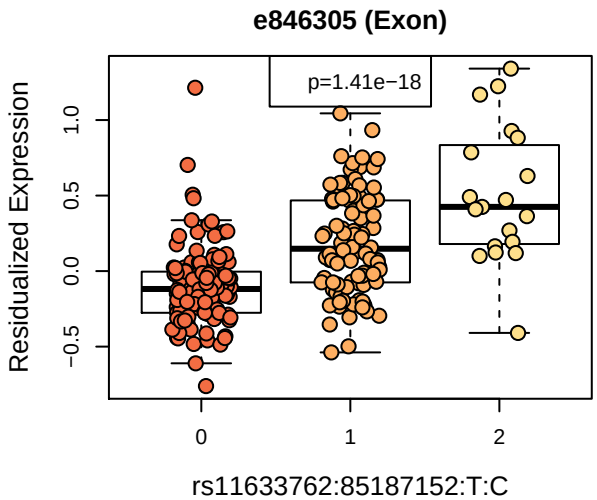
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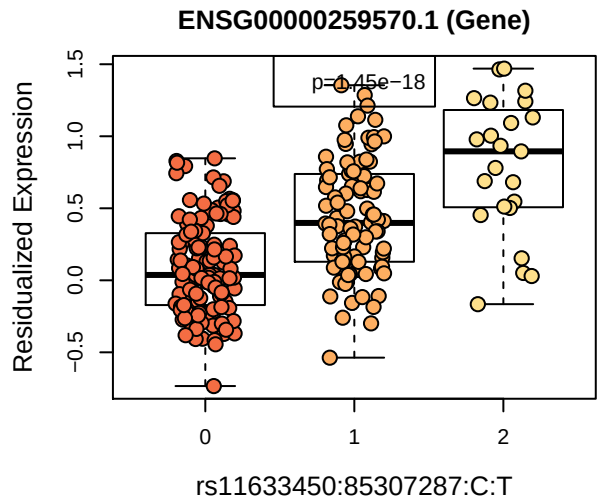
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Residualized Expression
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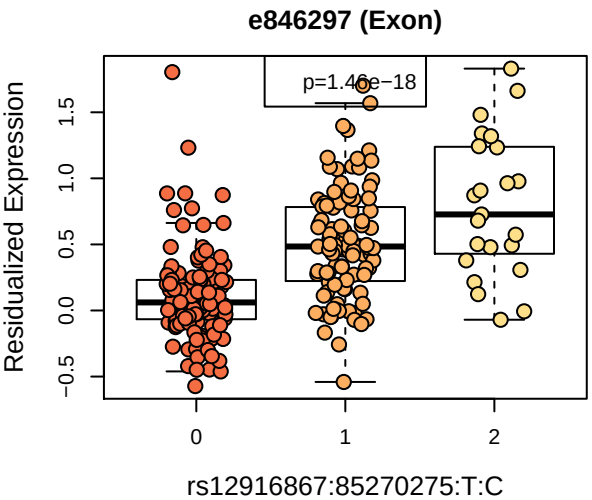
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p=1.46e−18
Residualized Expression
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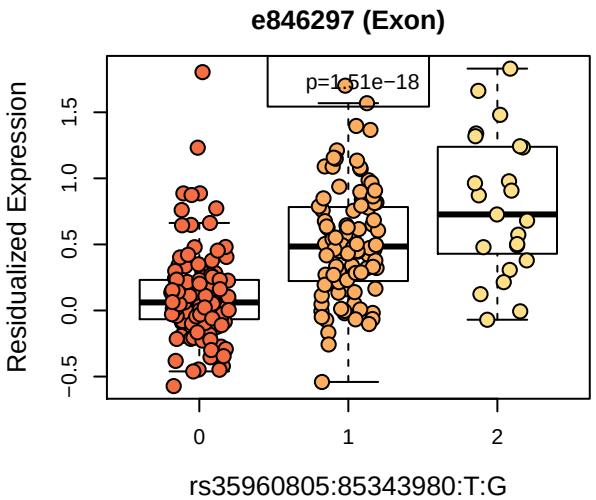
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Residualized Expression
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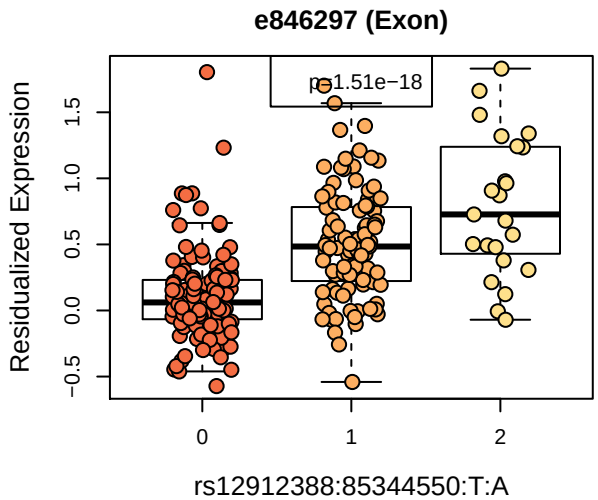
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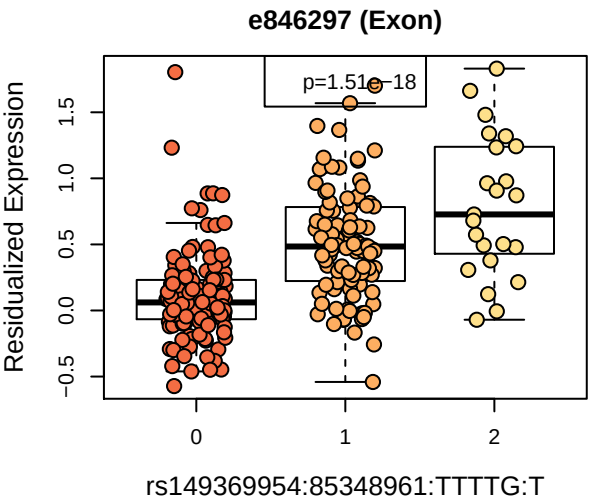
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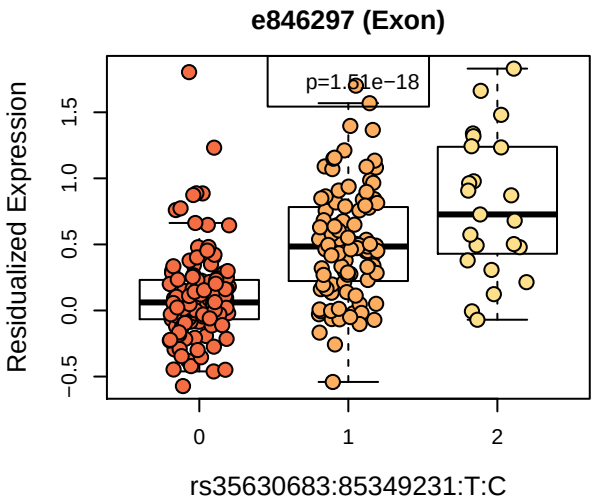
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Residualized Expression
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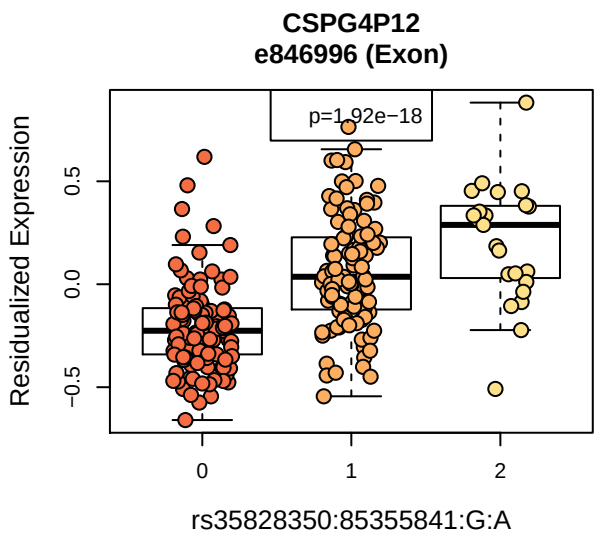
CSPG4P12
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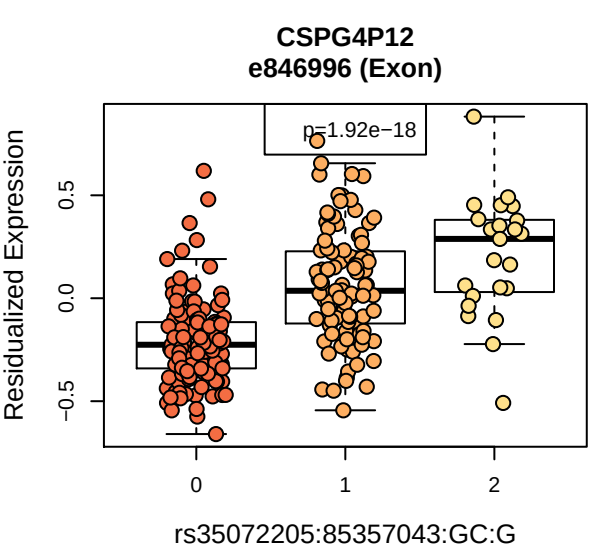
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Residualized Expression
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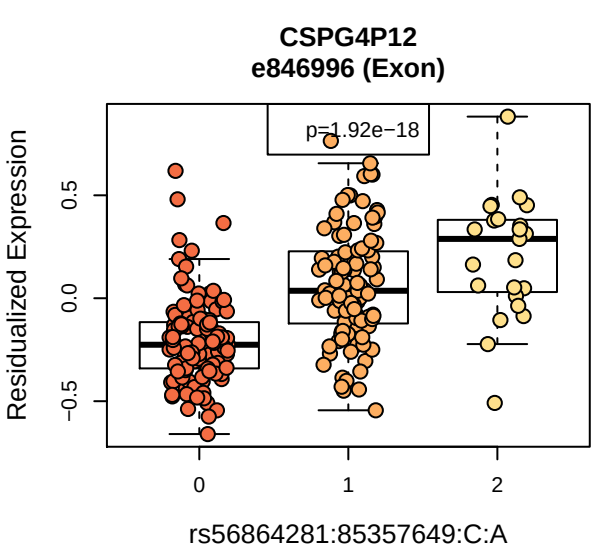
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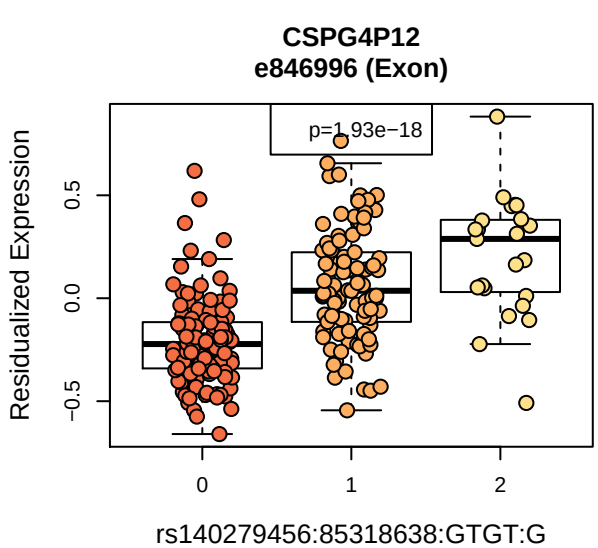
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Residualized Expression
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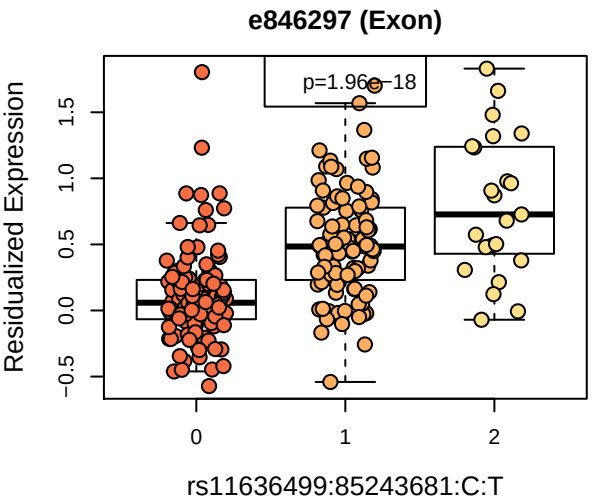
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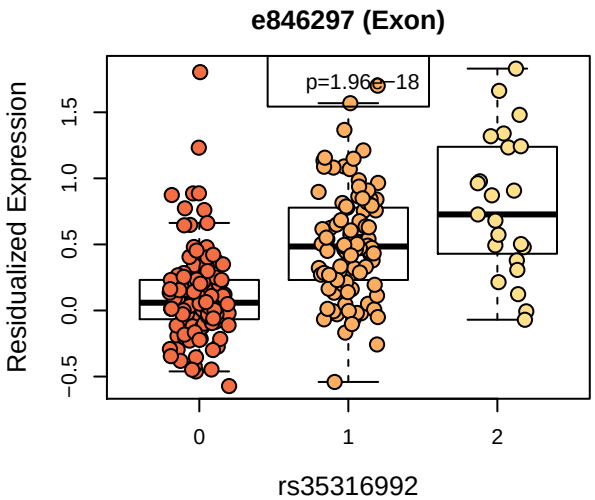
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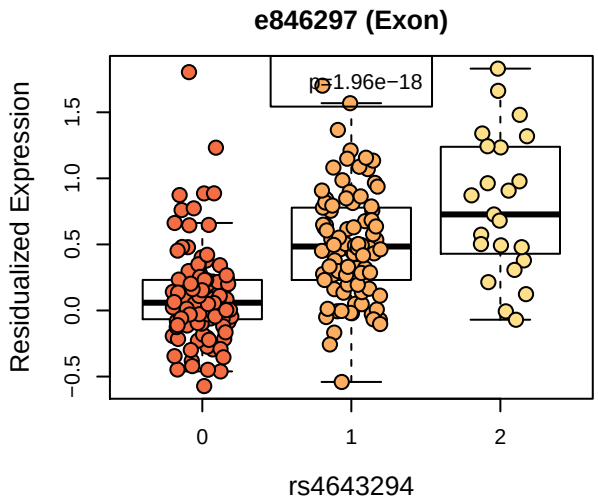
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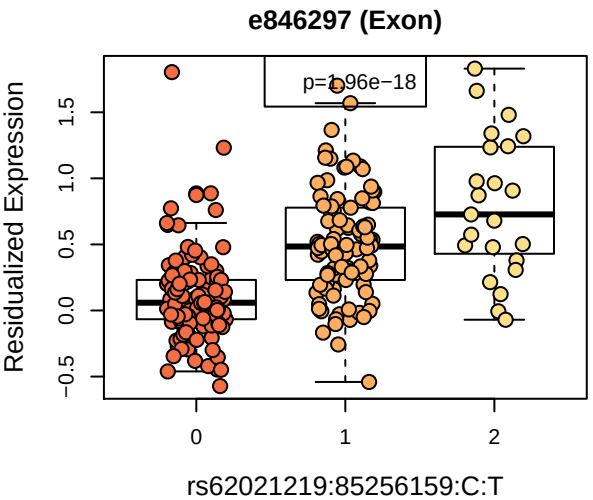
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p=1.96e−18
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0.5
1.0
1.5
0
1
2
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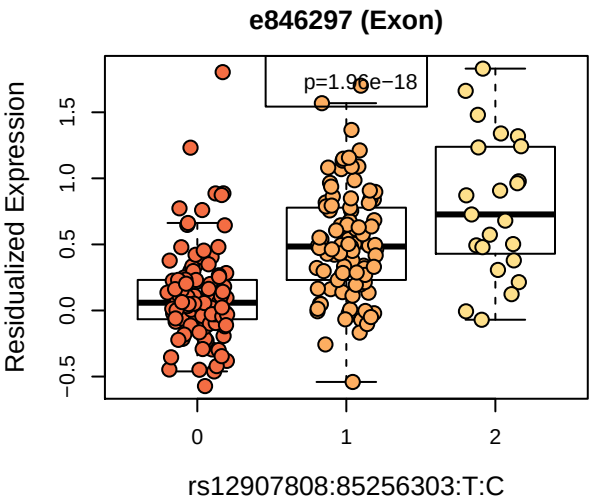
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Residualized Expression
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1.5
0
1
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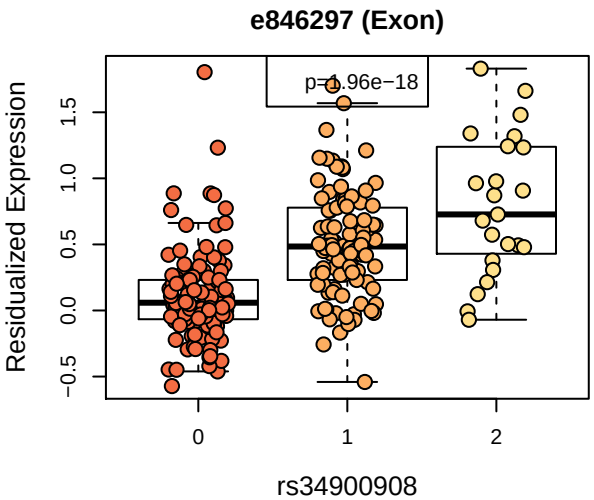
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Residualized Expression
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0
1
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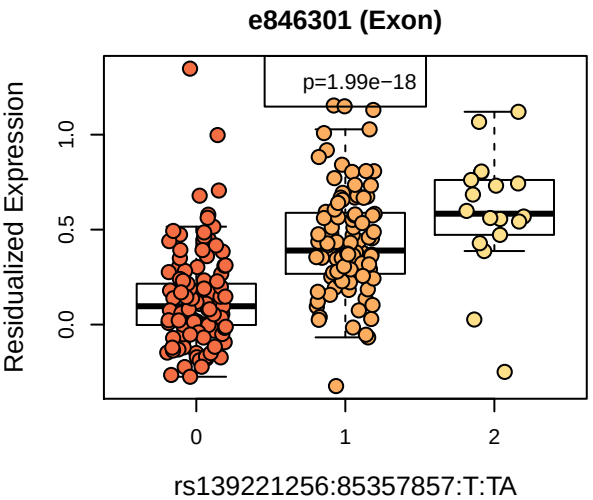
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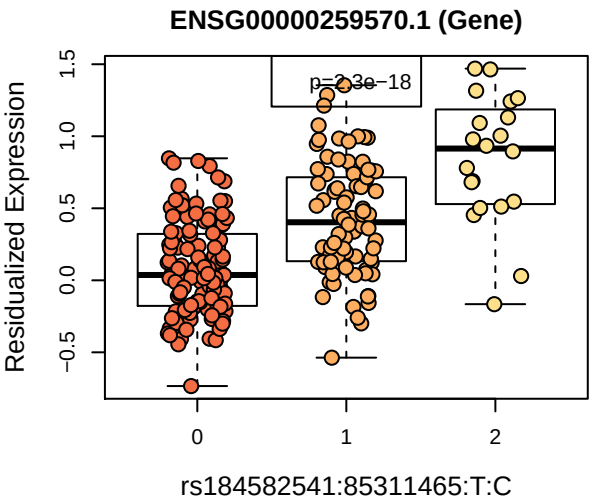
ENSG00000259570.1 (Gene)
p=2.3e−18
Residualized Expression
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1.5
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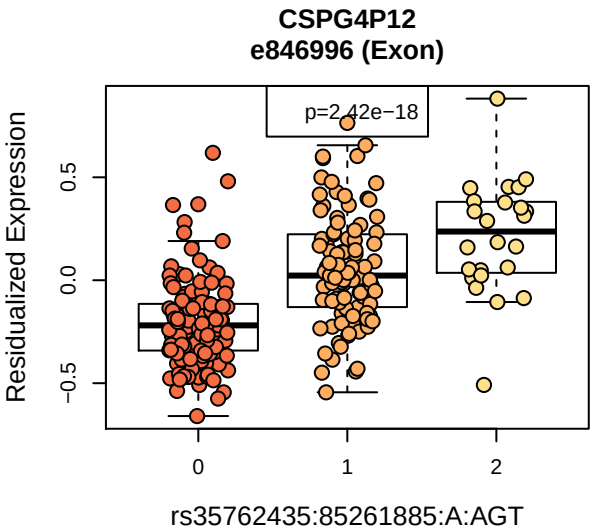
CSPG4P12
e846996 (Exon)
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0
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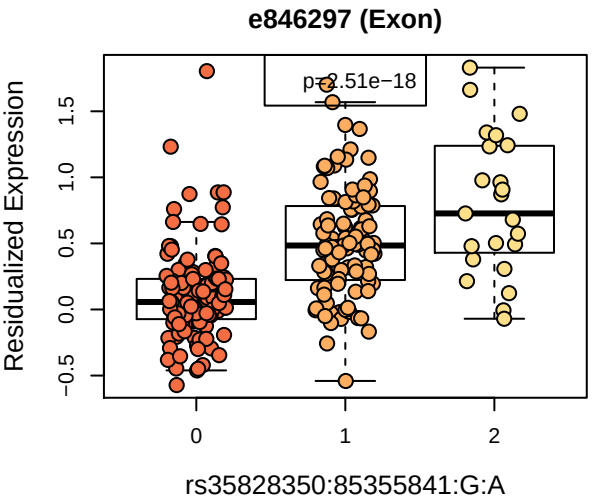
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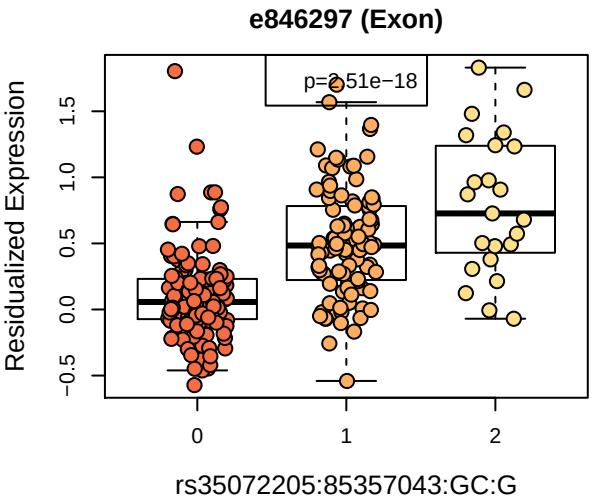
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p=2.51e−18
Residualized Expression
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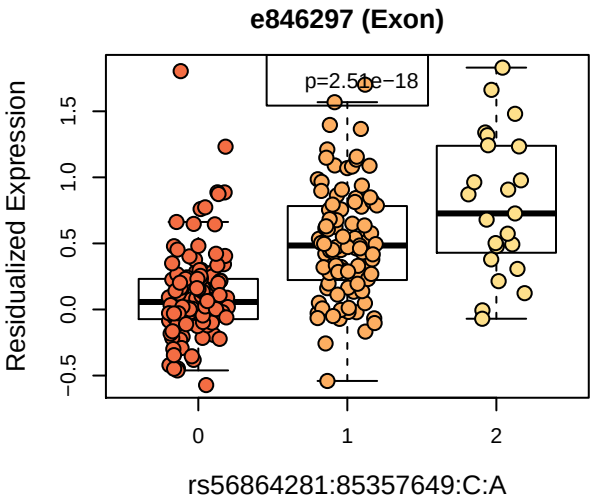
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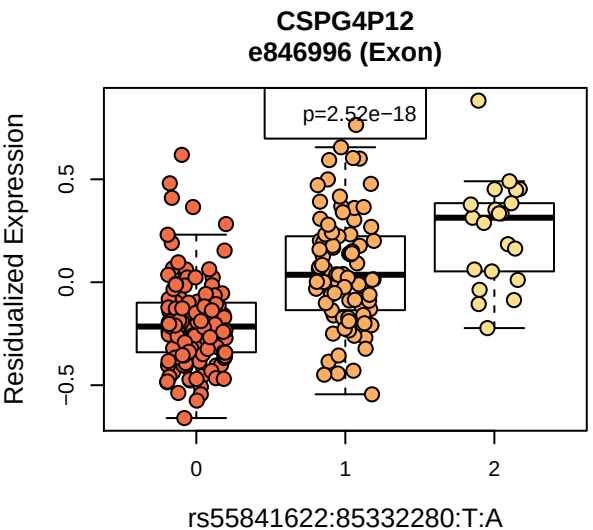
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Residualized Expression
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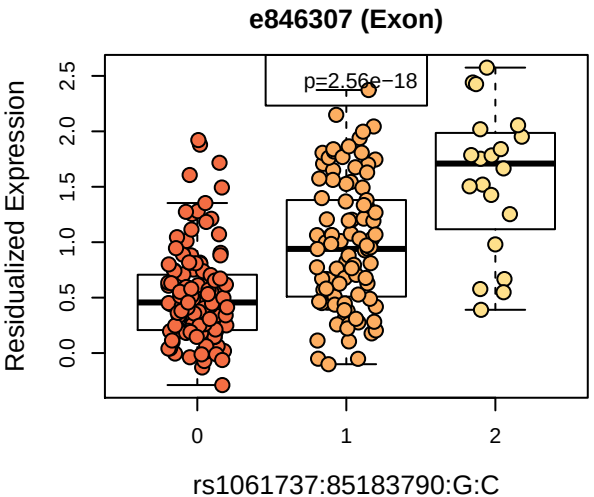
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Residualized Expression
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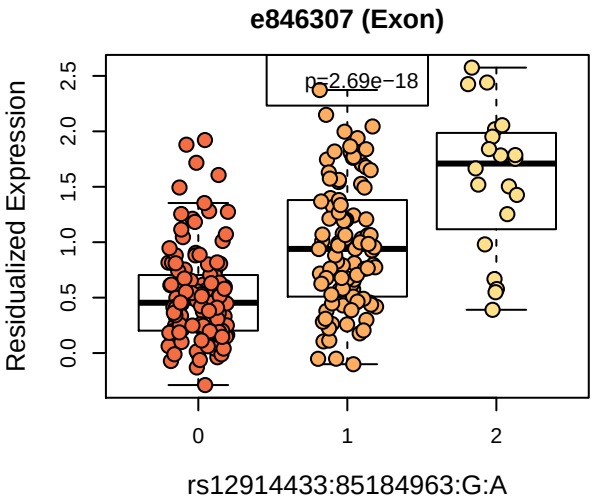
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Residualized Expression
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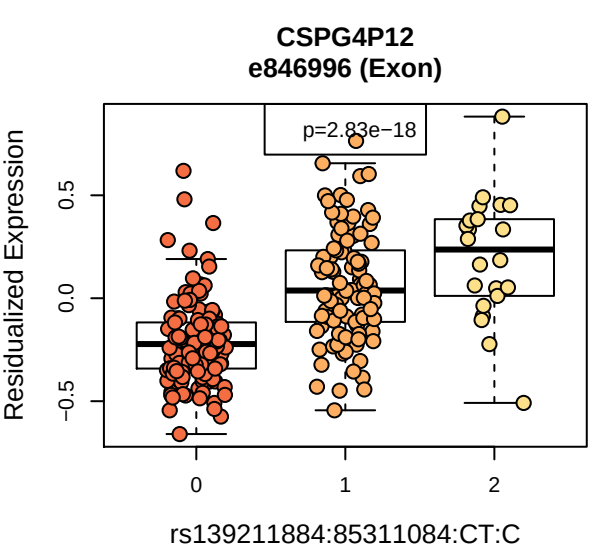
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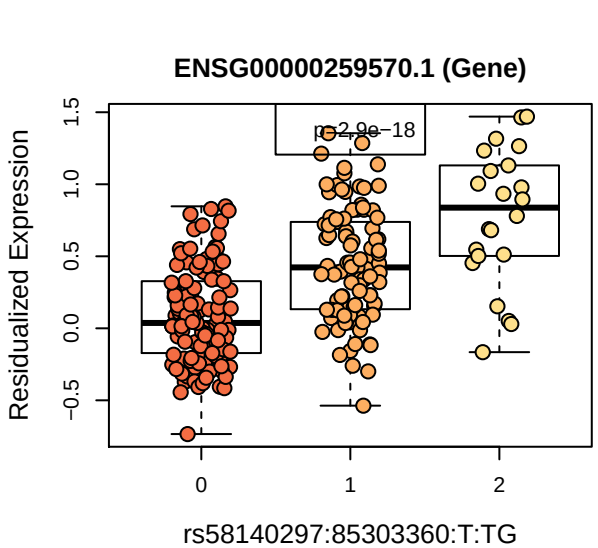
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Residualized Expression
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2
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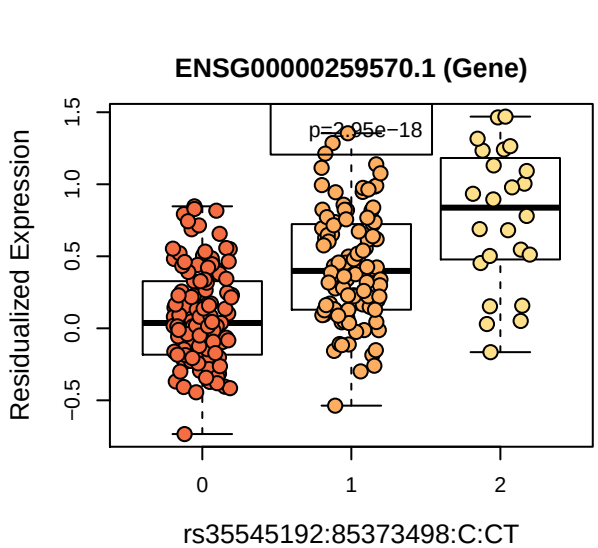
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Residualized Expression
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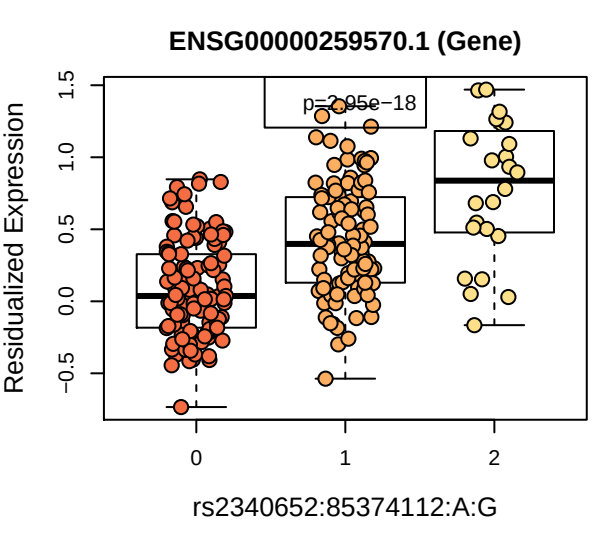
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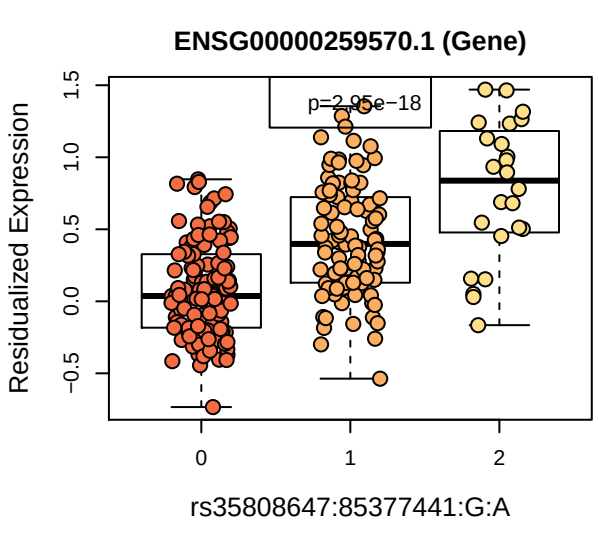
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2
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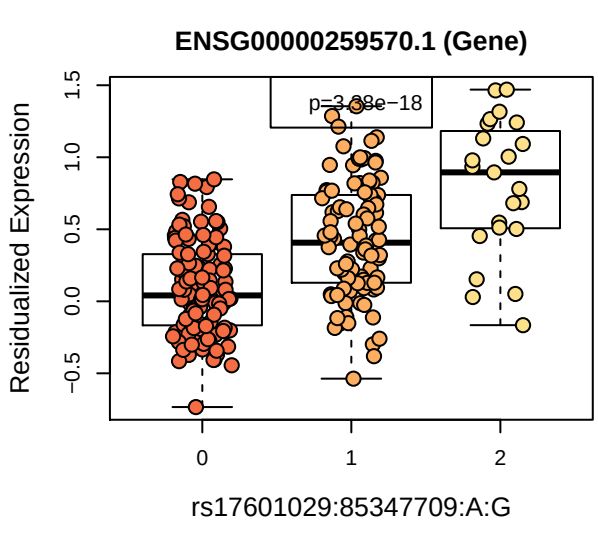
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Residualized Expression
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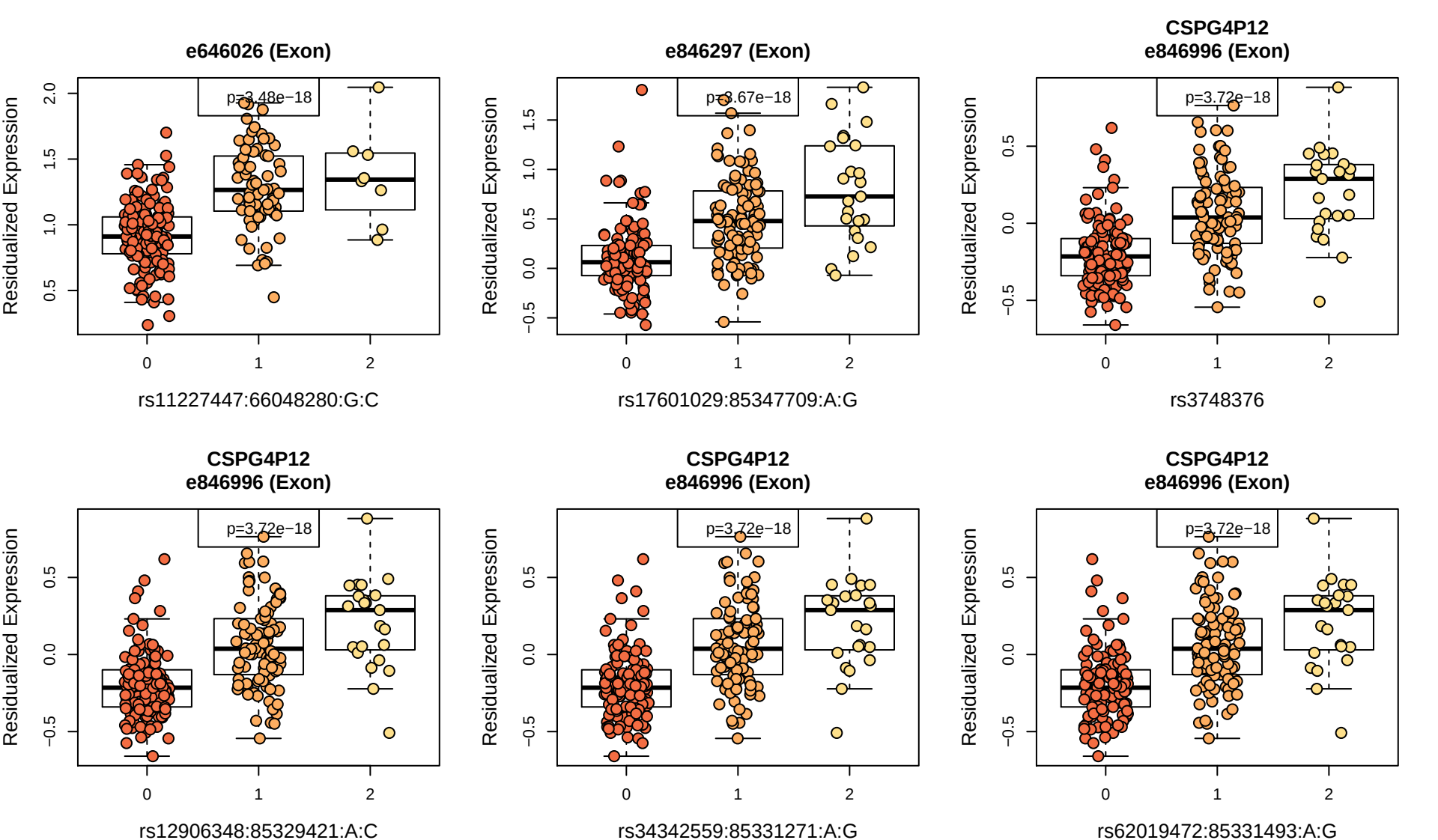
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p=3.48e−18
Residualized Expression
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e846297 (Exon)
p=3.67e−18
Residualized Expression
rs17601029:85347709:A:G
CSPG4P12
e846996 (Exon)
p=3.72e−18
Residualized Expression
rs3748376
CSPG4P12
e846996 (Exon)
p=3.72e−18
Residualized Expression
rs12906348:85329421:A:C
CSPG4P12
e846996 (Exon)
p=3.72e−18
Residualized Expression
rs34342559:85331271:A:G
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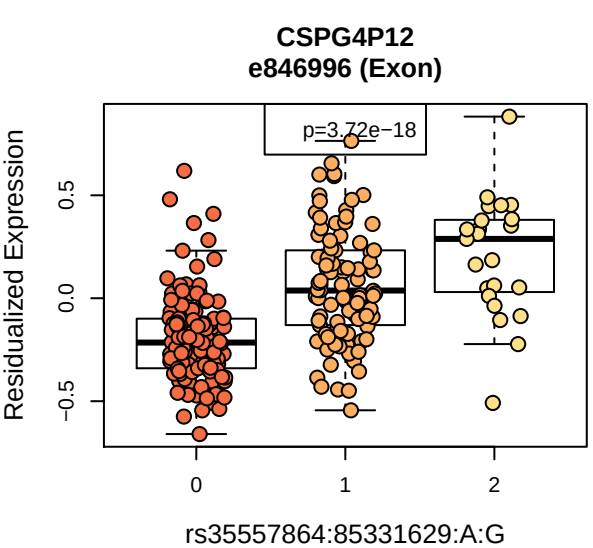
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Residualized Expression
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2
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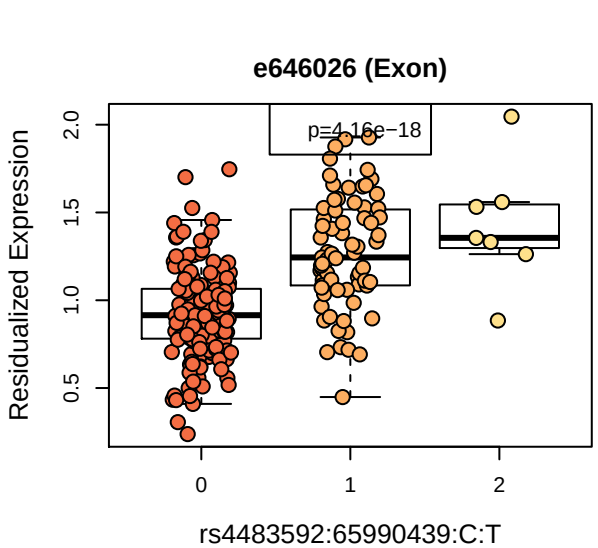
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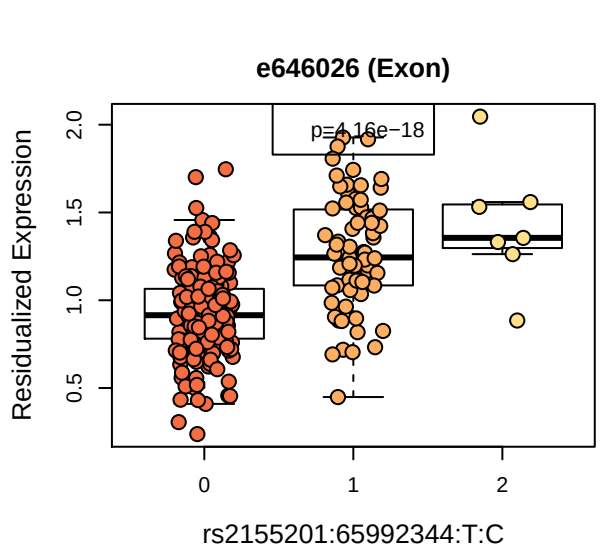
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Residualized Expression
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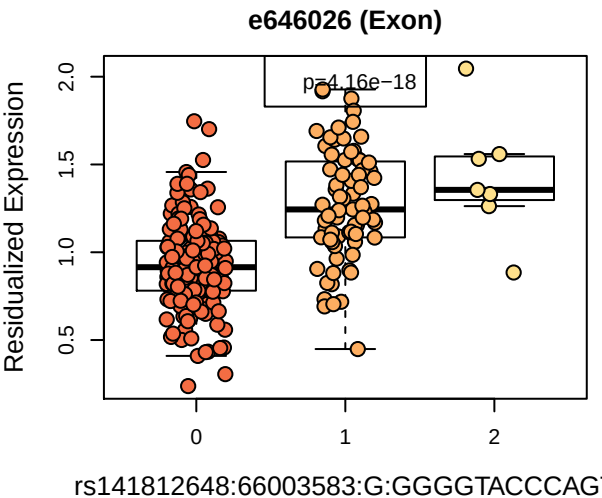
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Residualized Expression
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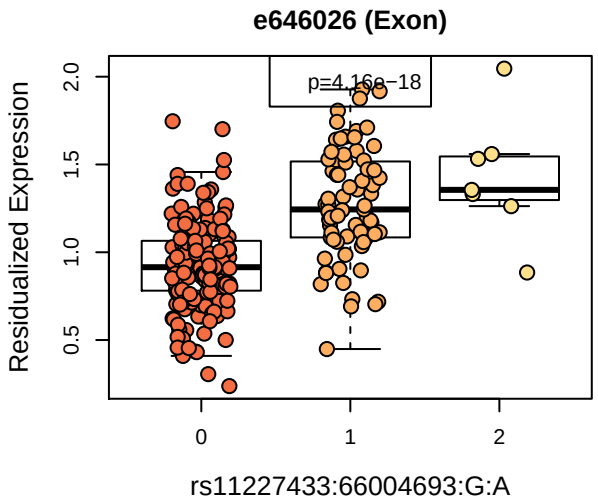
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Residualized Expression
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2
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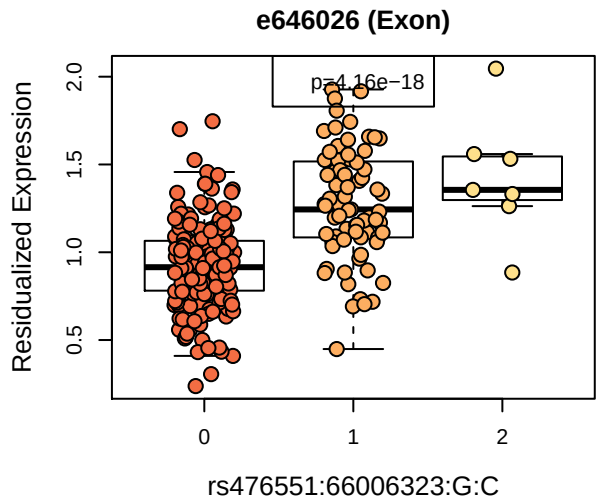
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Residualized Expression
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2
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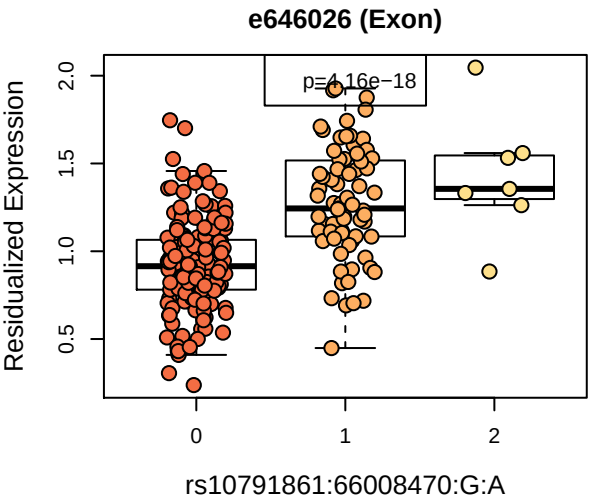
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p=4.16e−18
Residualized Expression
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1.5
2.0
0
1
2
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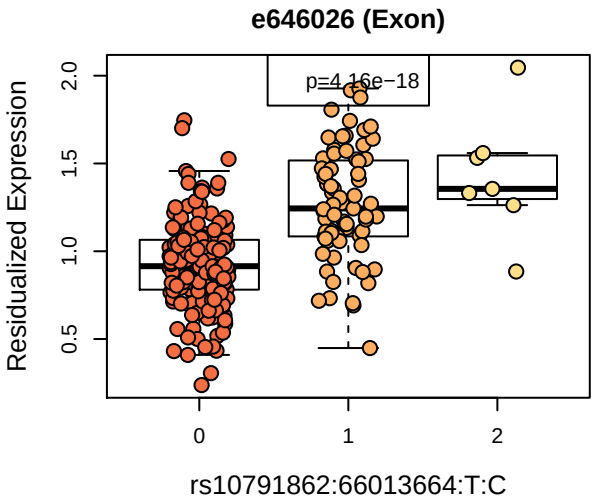
e646026 (Exon)
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Residualized Expression
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1.5
2.0
0
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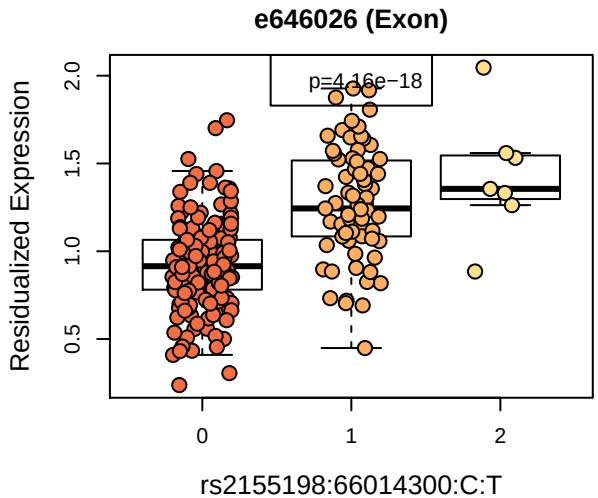
e646026 (Exon)
p=4.16e−18
Residualized Expression
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1.5
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0
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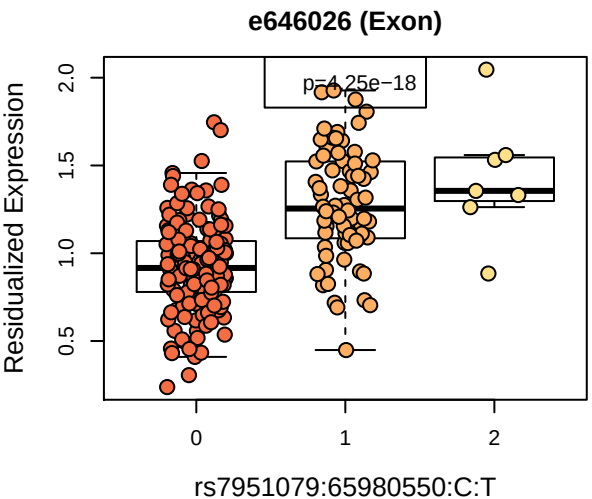
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Residualized Expression
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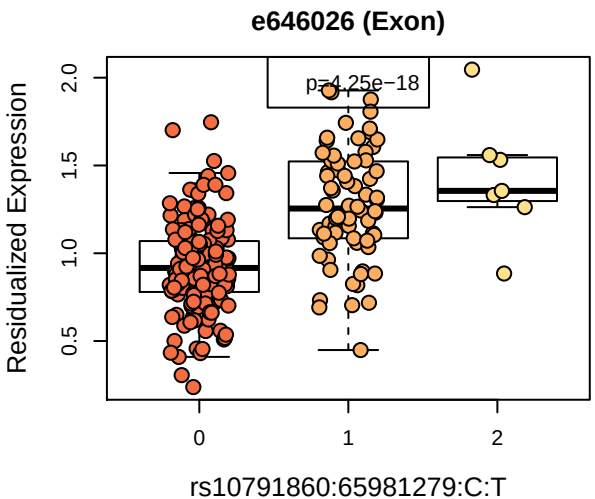
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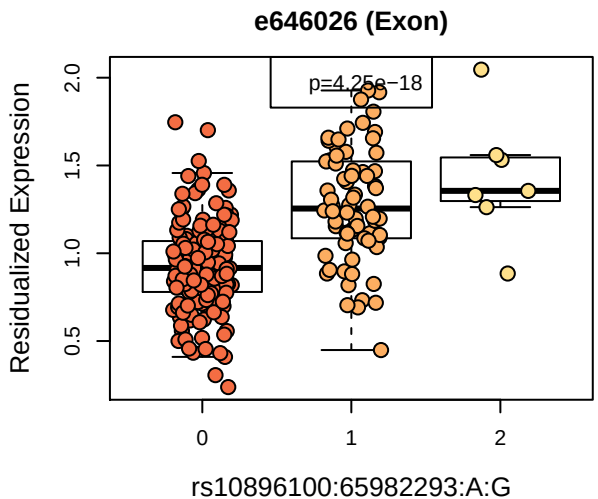
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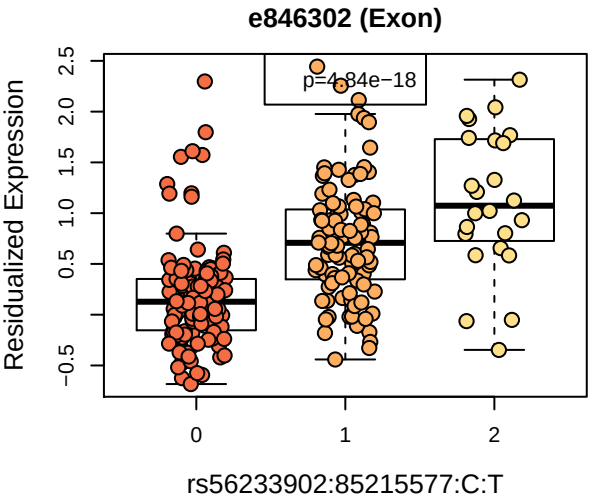
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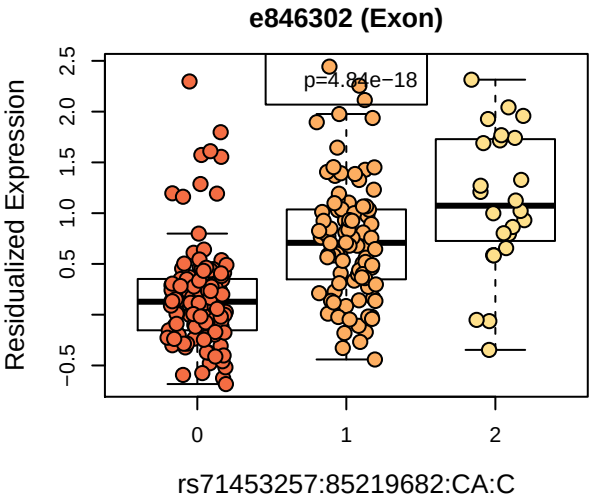
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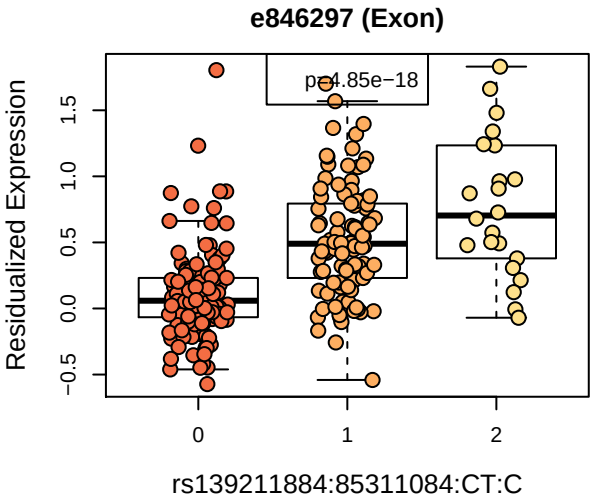
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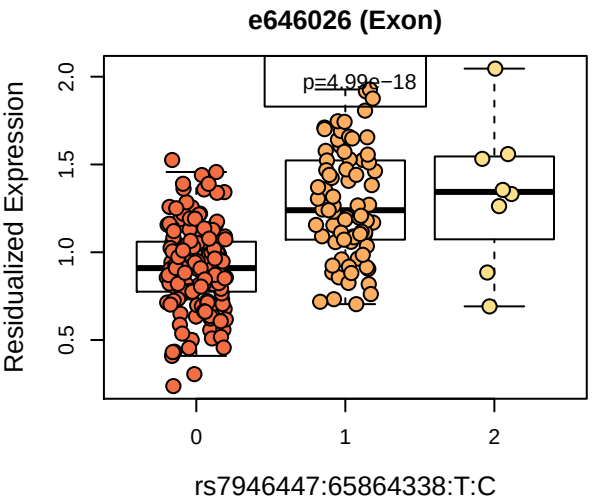
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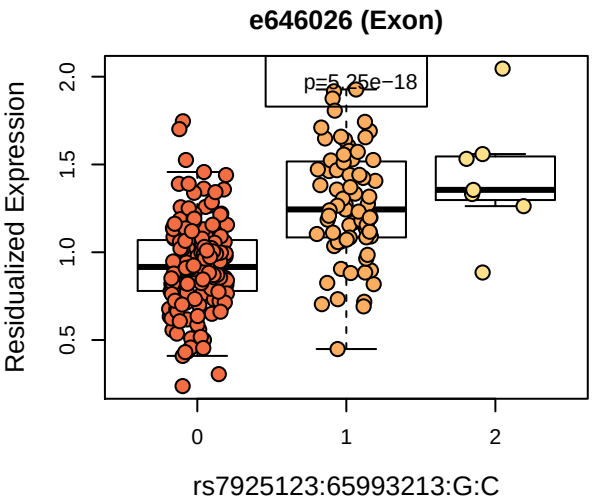
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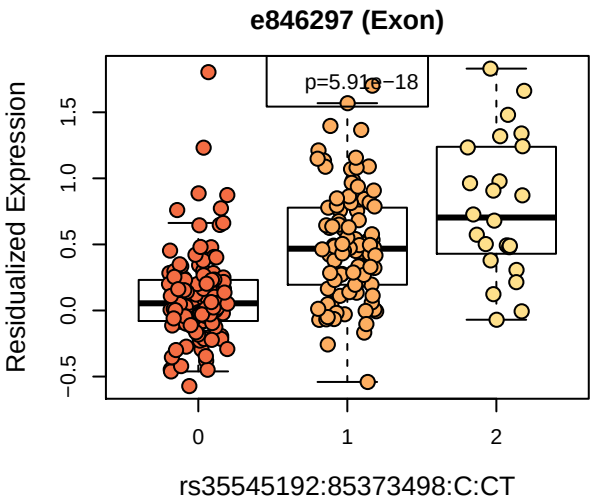
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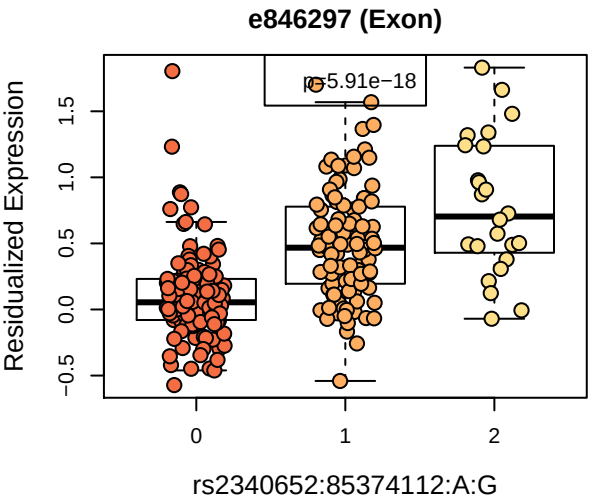
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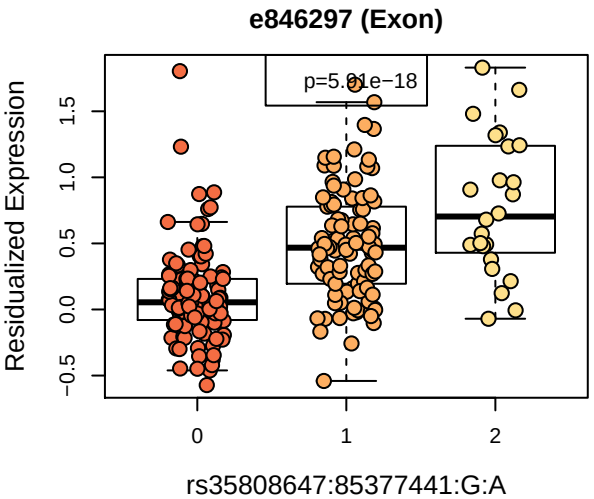
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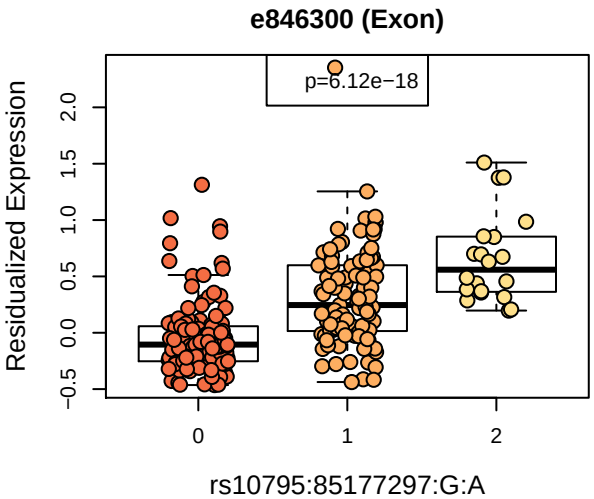
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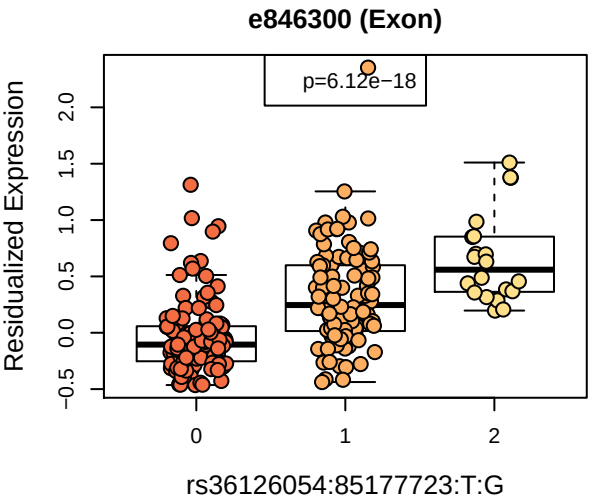
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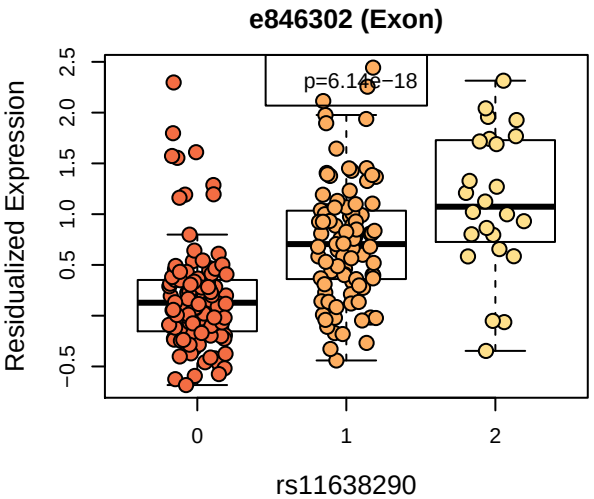
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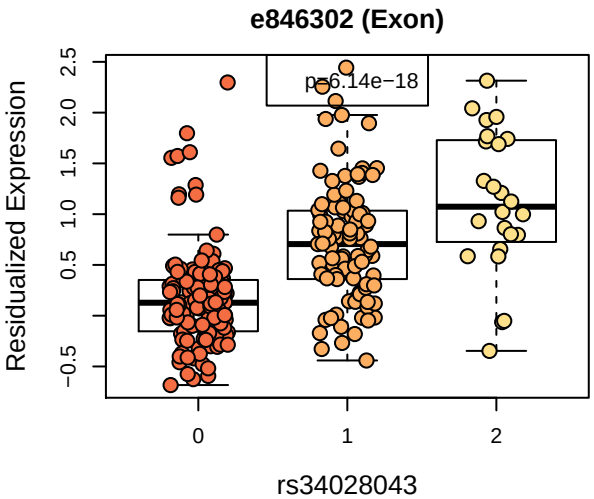
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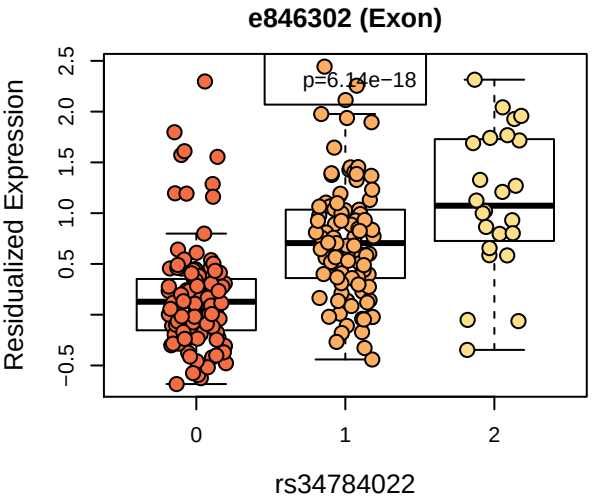
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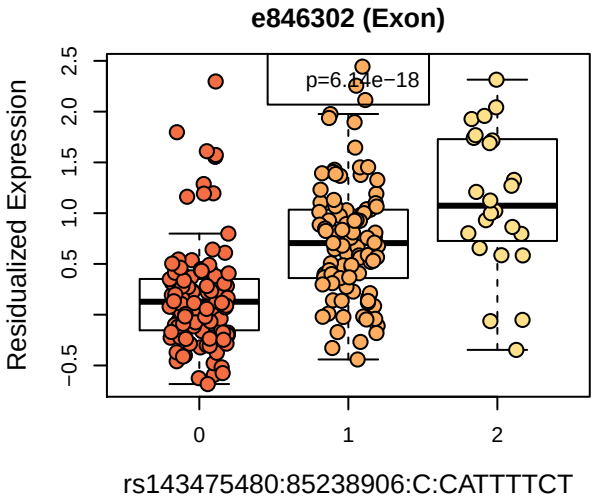
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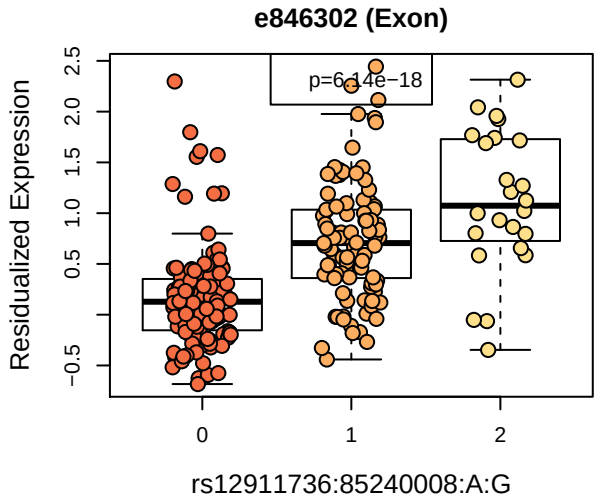
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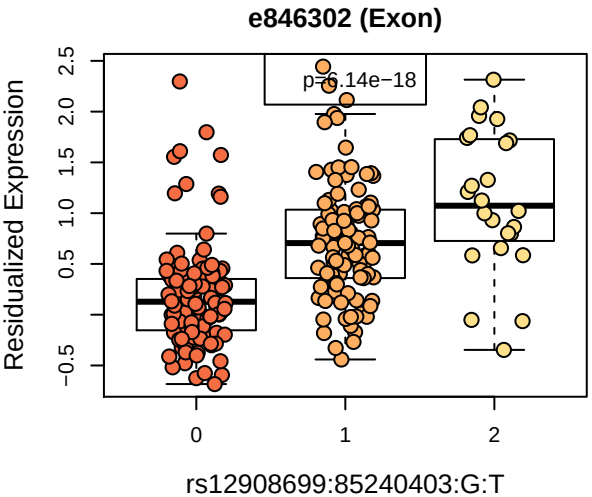
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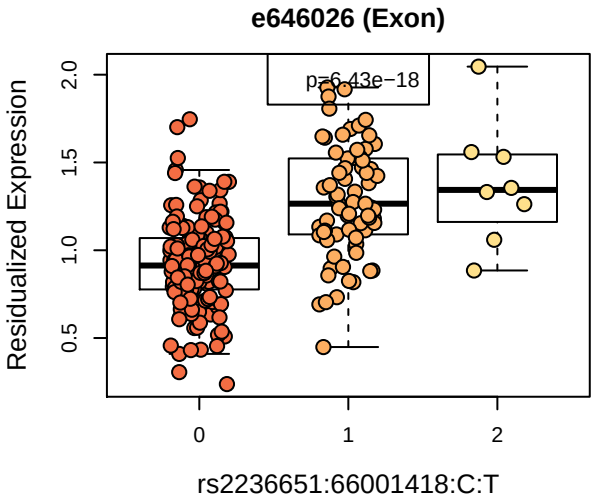
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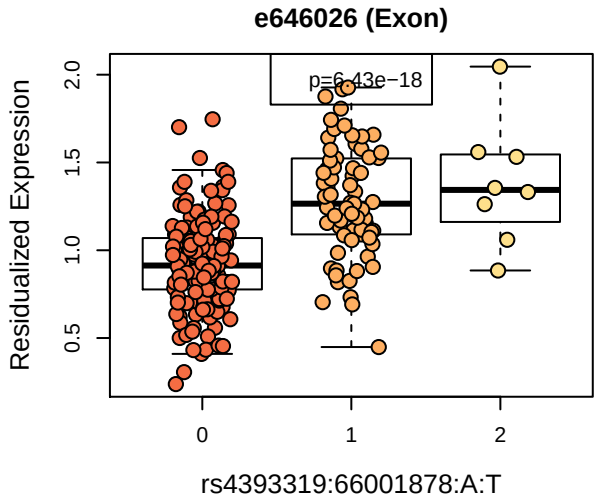
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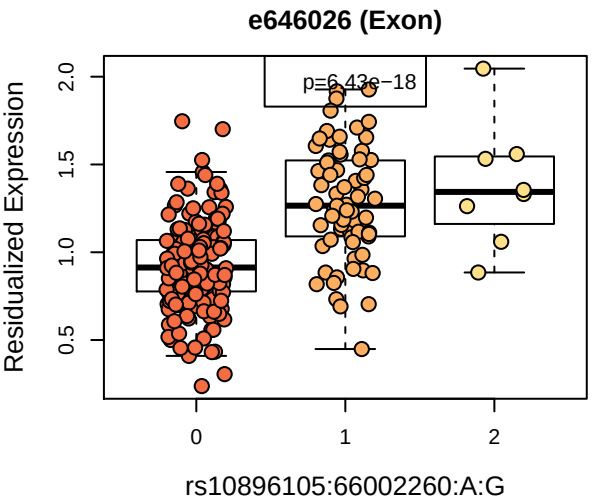
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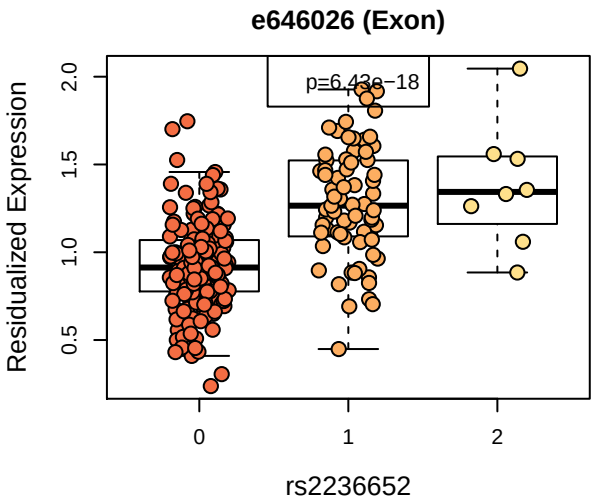
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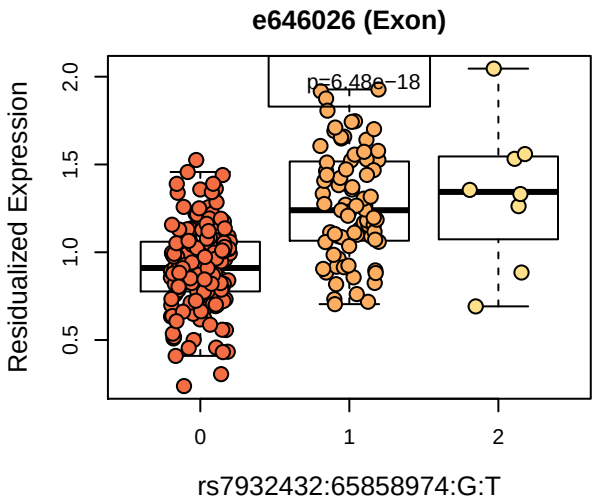
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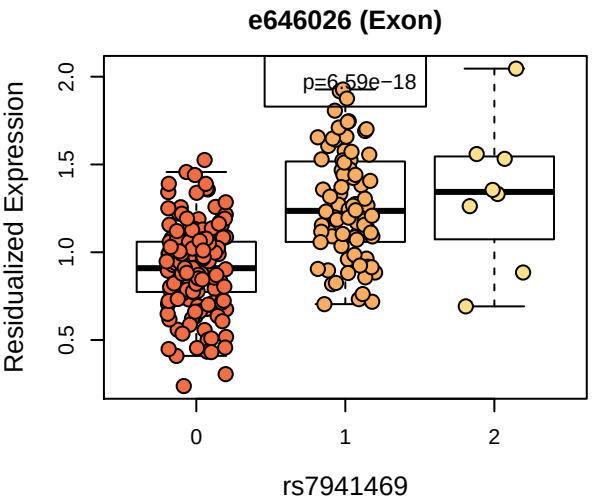
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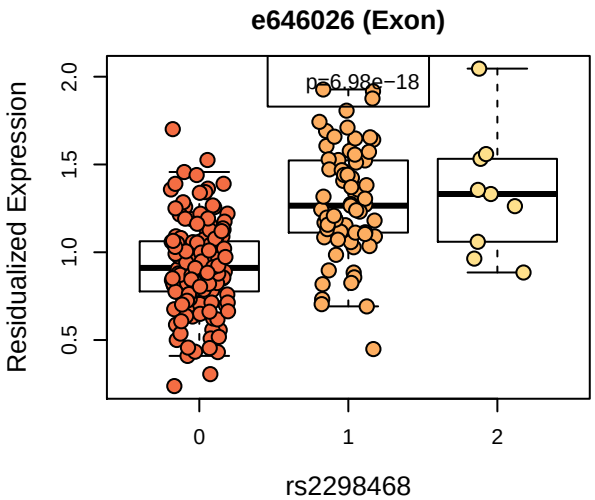
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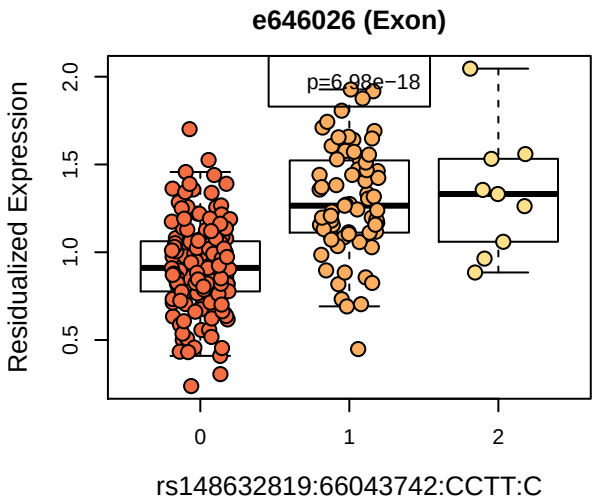
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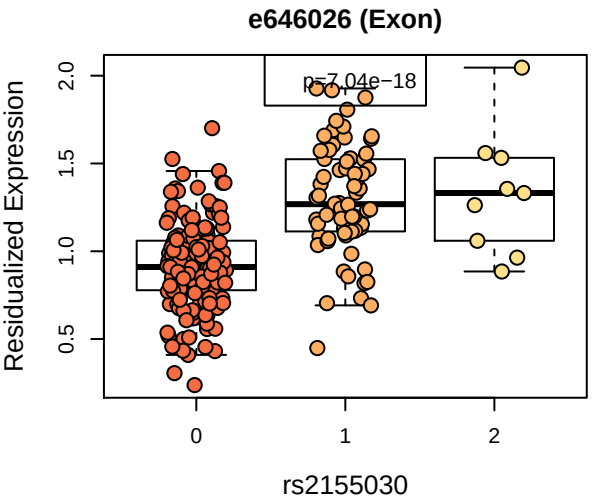
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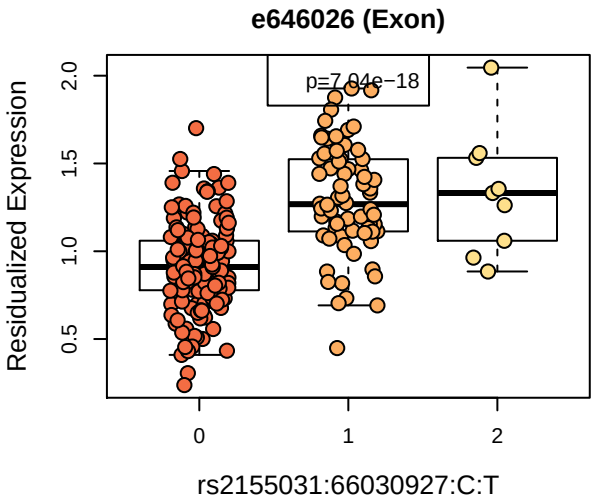
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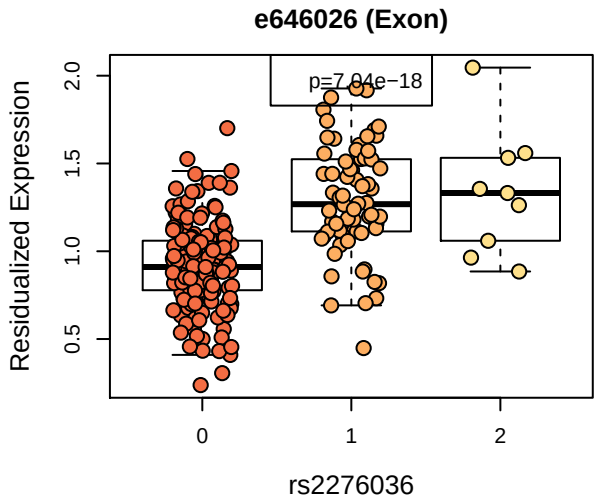
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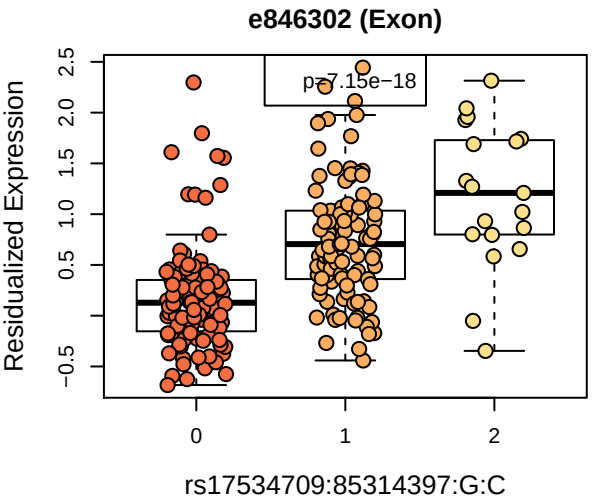
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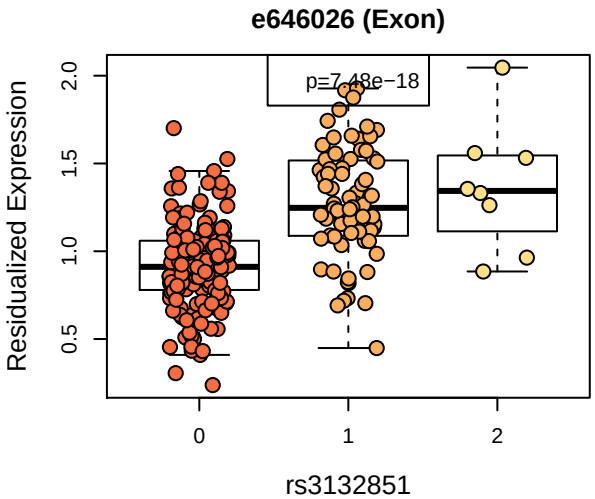
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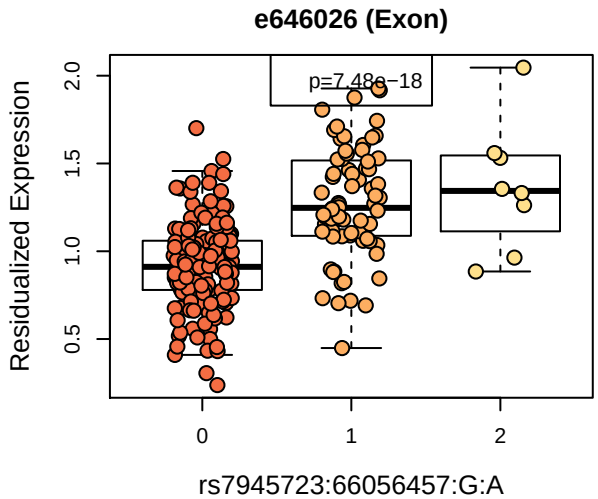
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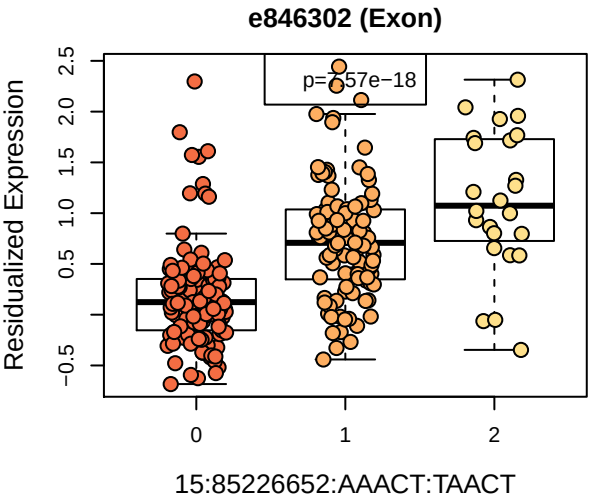
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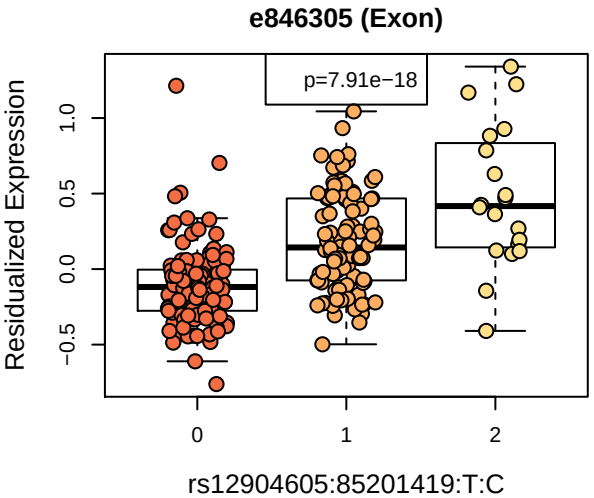
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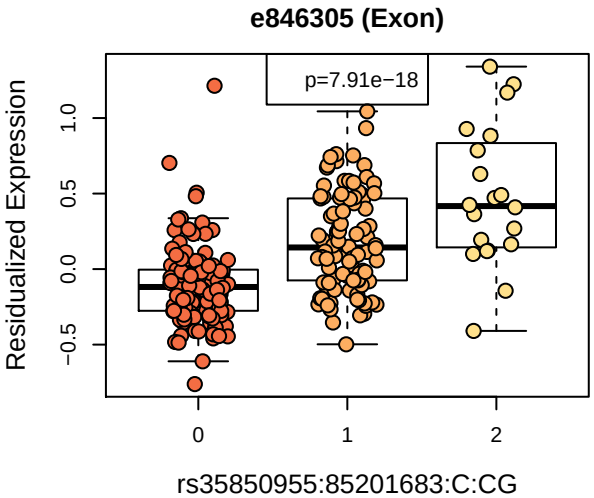
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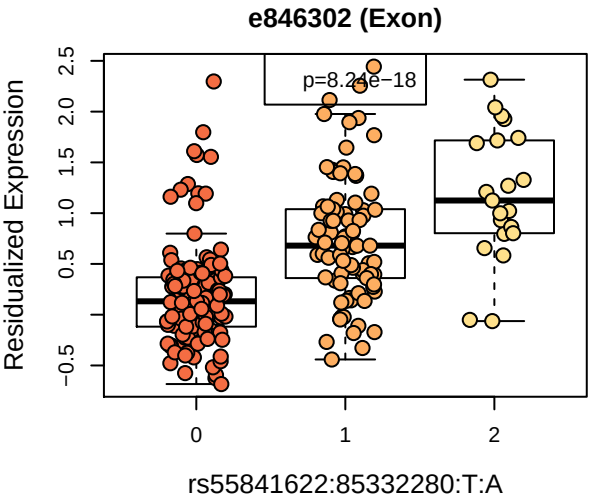
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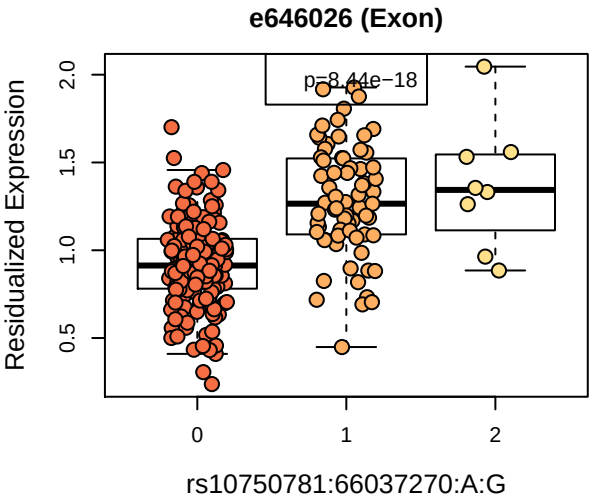
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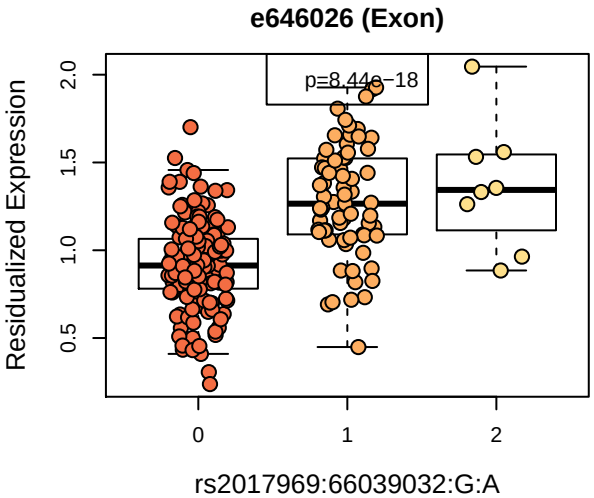
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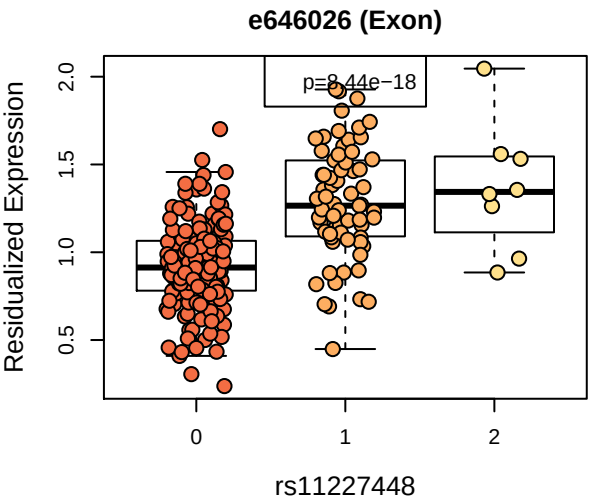
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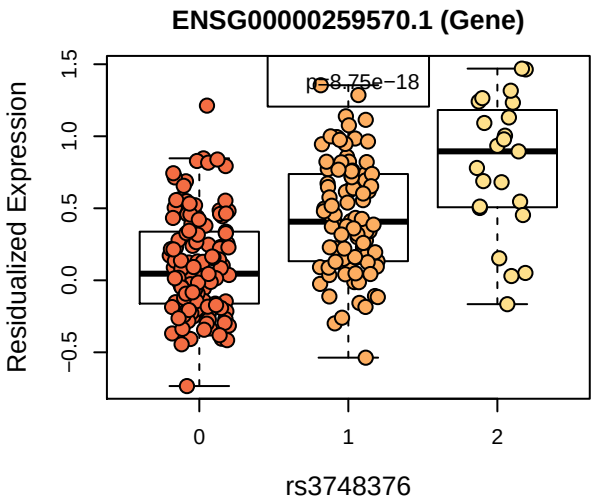
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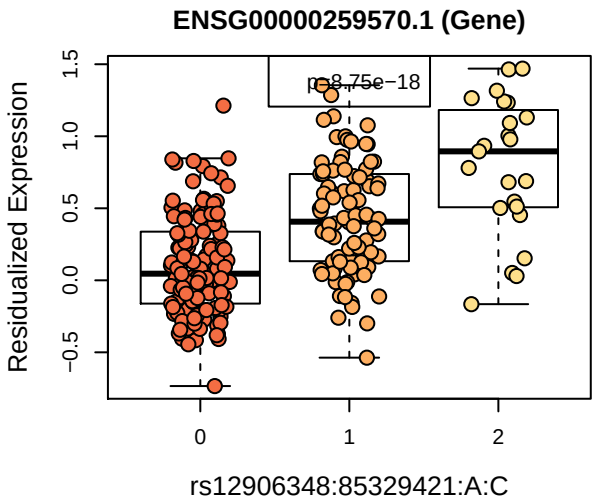
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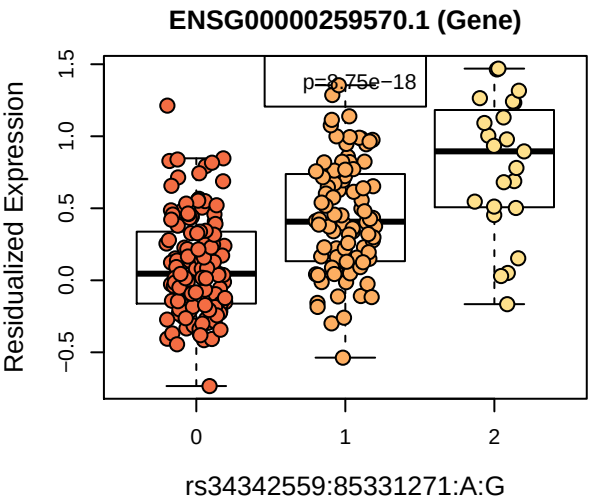
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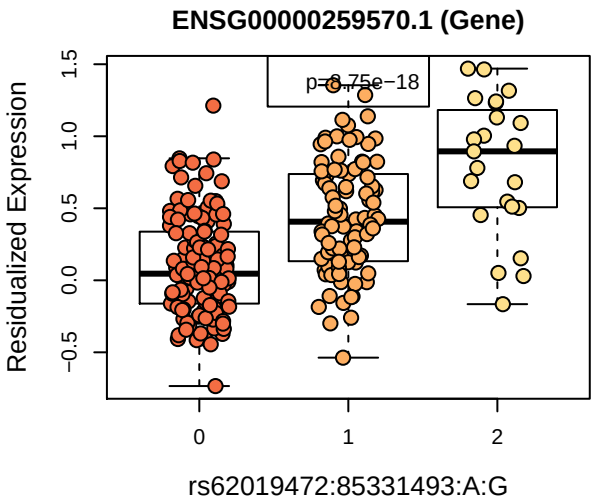
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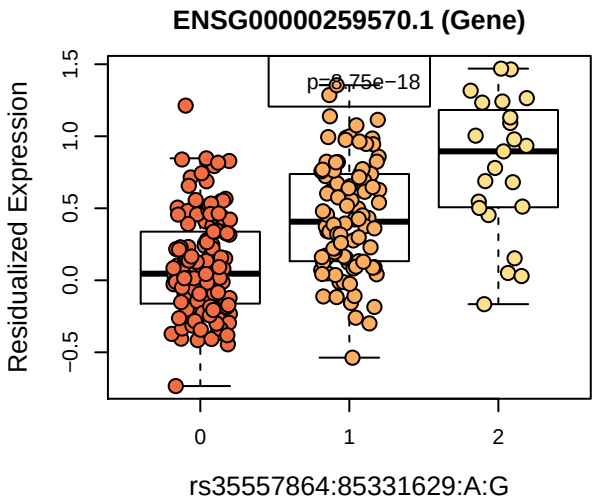
ENSG00000259570.1 (Gene)
p=8.75e−18
Residualized Expression
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1.5
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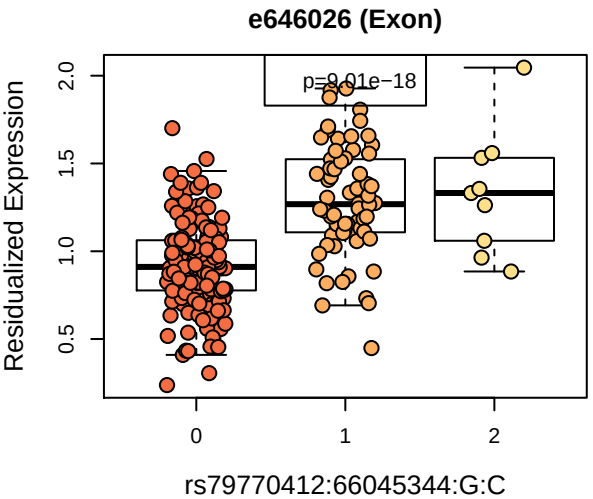
e646026 (Exon)
p=9.01e−18
Residualized Expression
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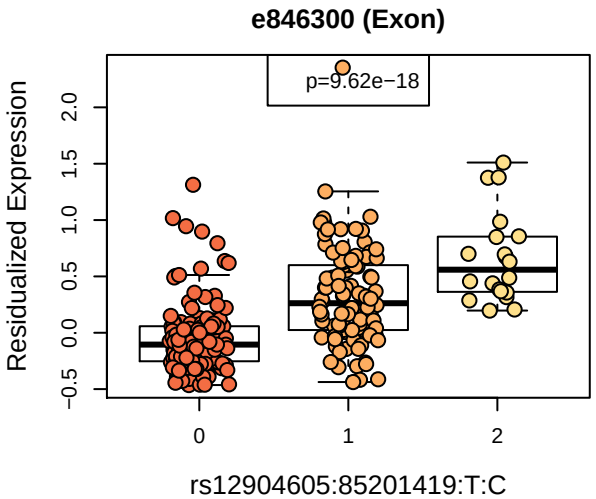
e846300 (Exon)
p=9.62e−18
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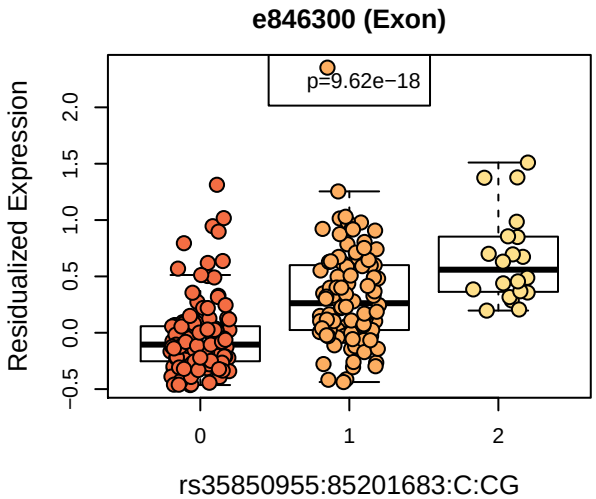
e846300 (Exon)
p=9.62e−18
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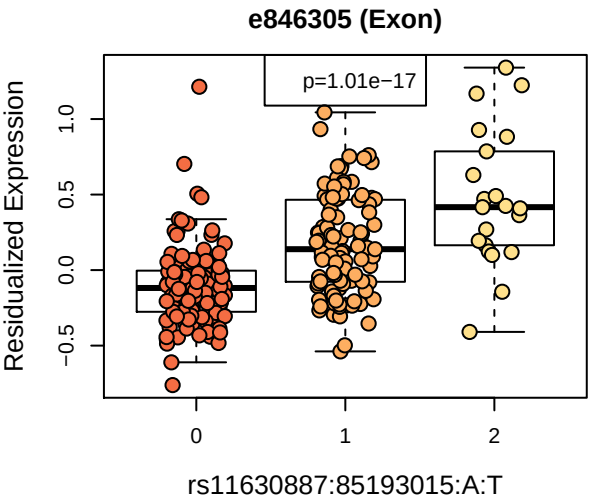
e846305 (Exon)
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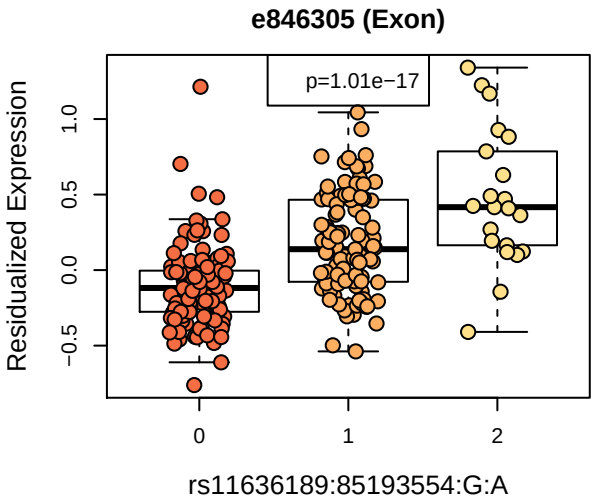
e846305 (Exon)
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0
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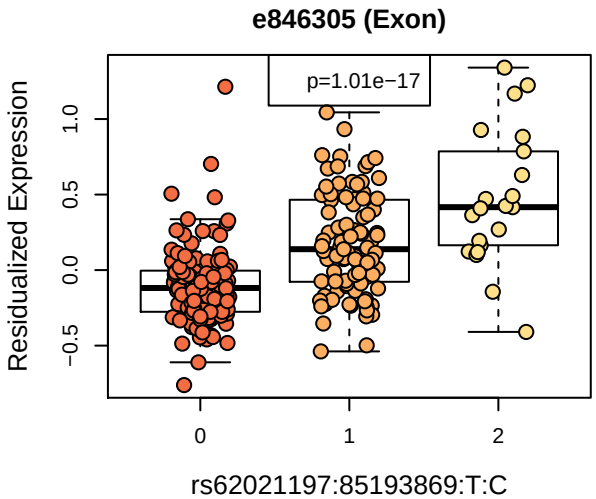
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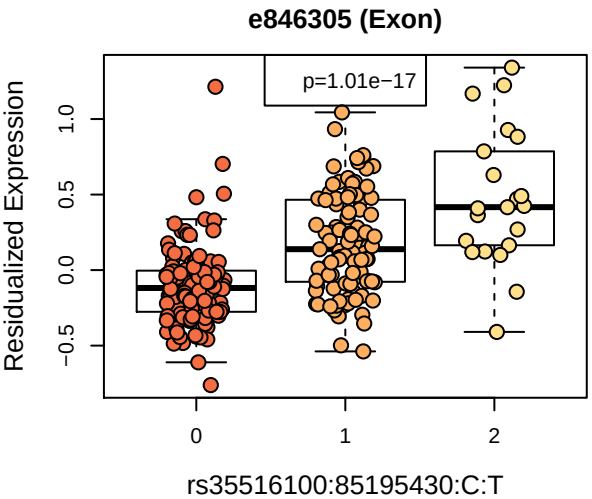
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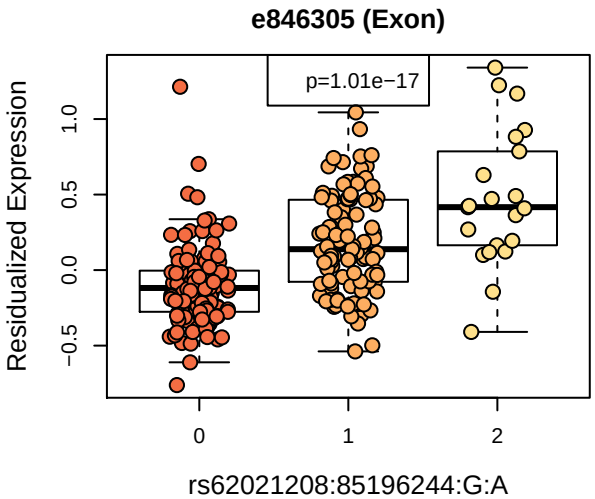
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p=1.01e−17
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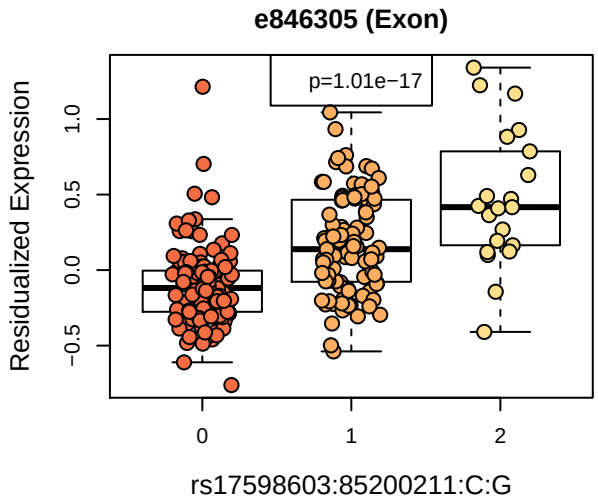
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p=1.01e−17
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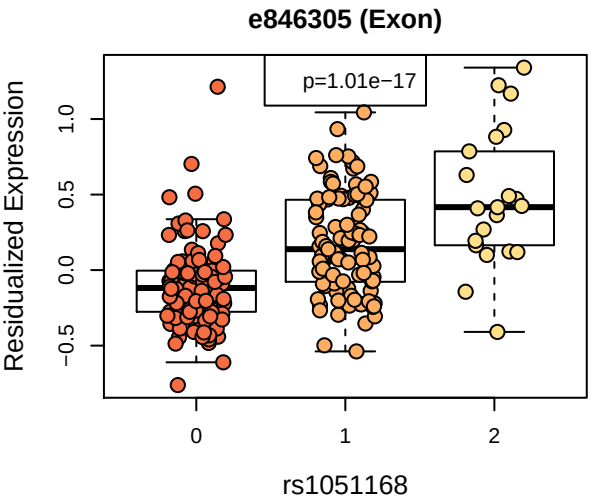
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p=1.01e−17
Residualized Expression
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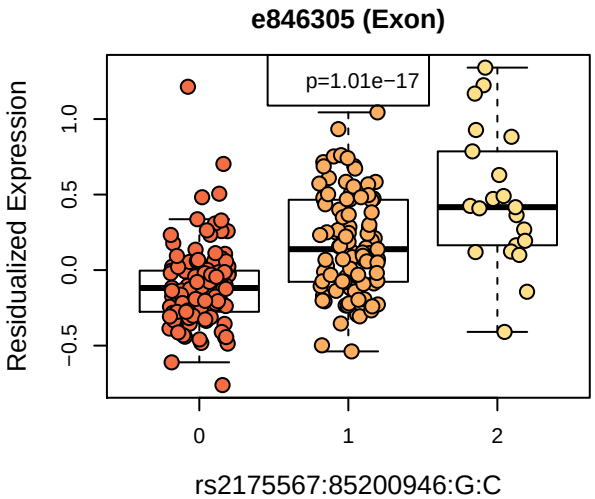
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p=1.01e−17
Residualized Expression
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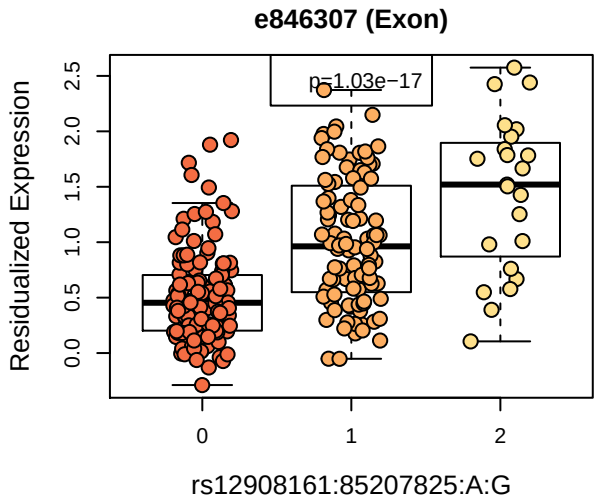
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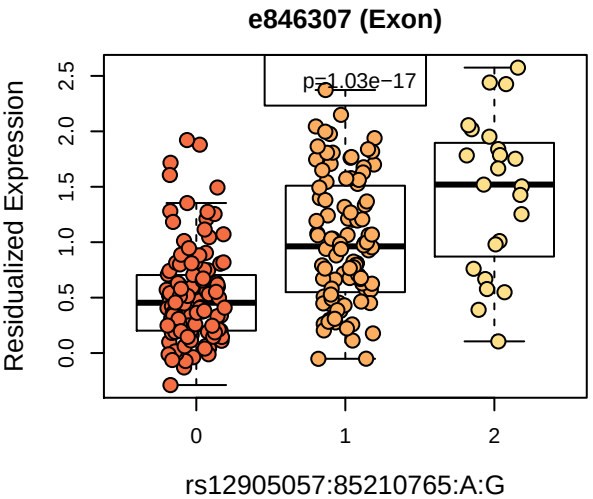
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2.5
0
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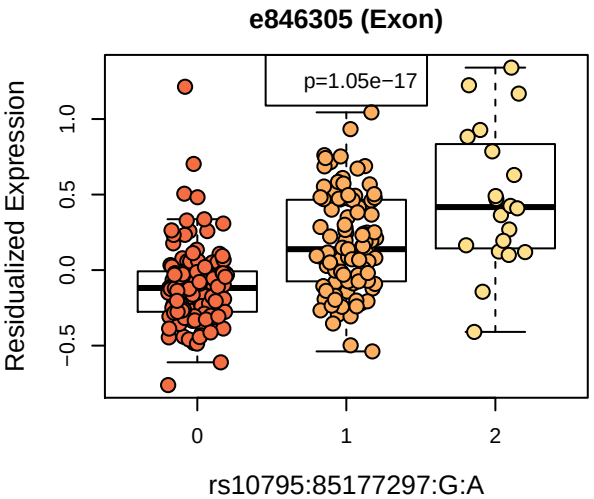
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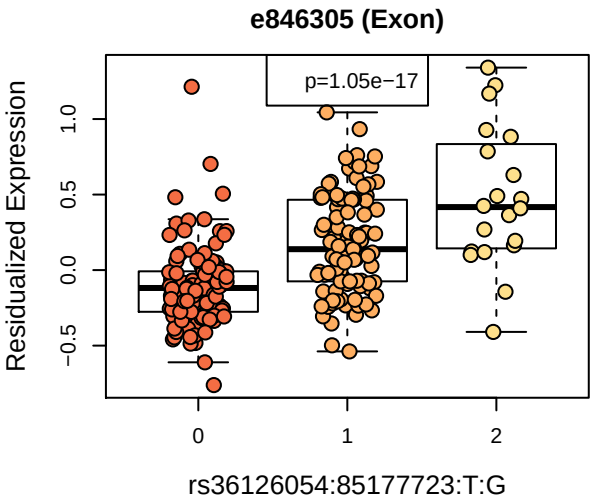
e846305 (Exon)
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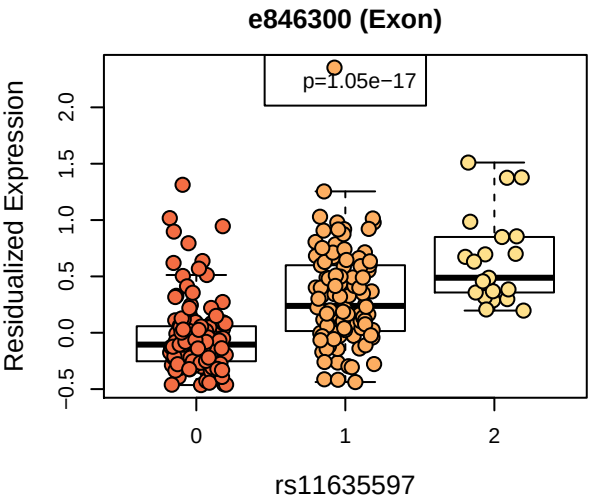
e846300 (Exon)
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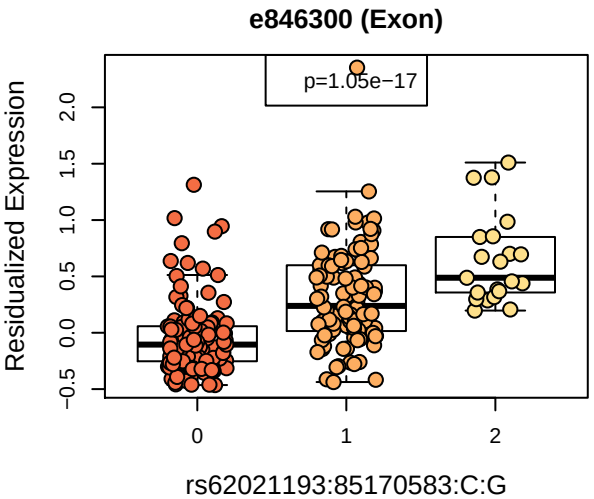
1
2
rs11635597


e846300 (Exon)
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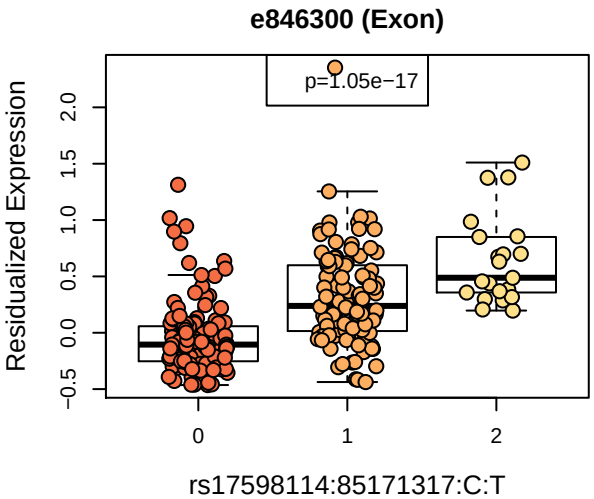
e846300 (Exon)
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Residualized Expression
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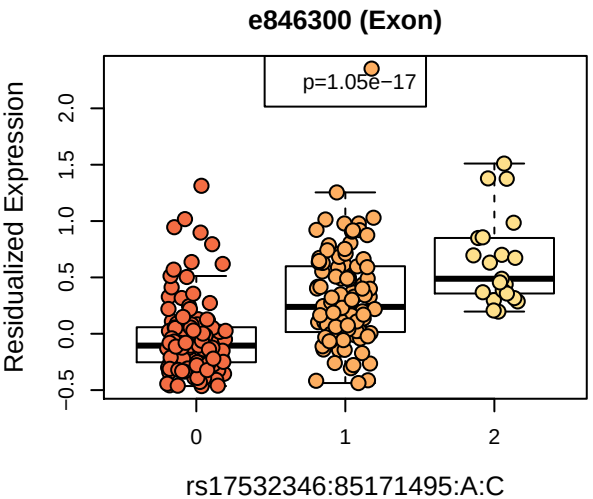
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1.5
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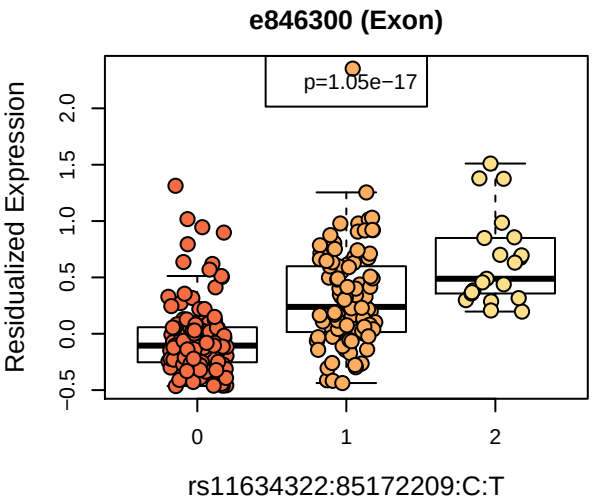
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p=1.05e−17
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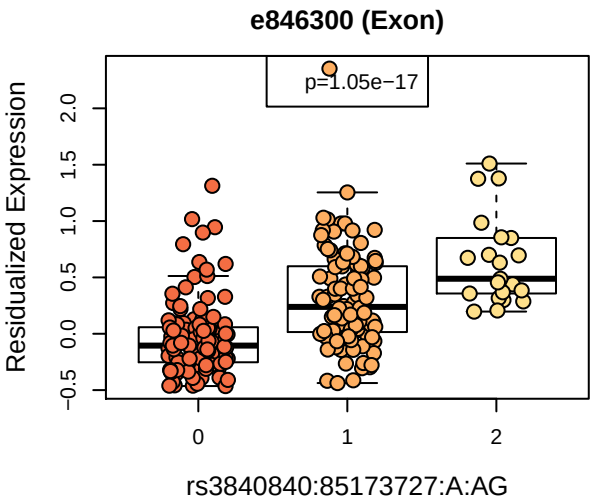
e846300 (Exon)
p=1.05e−17
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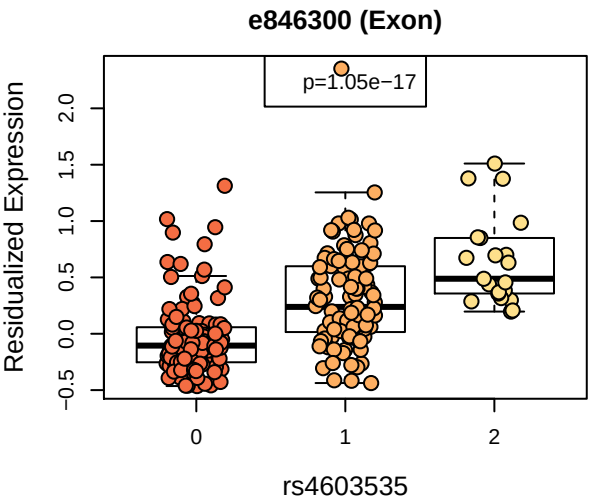
e846300 (Exon)
p=1.05e−17
Residualized Expression
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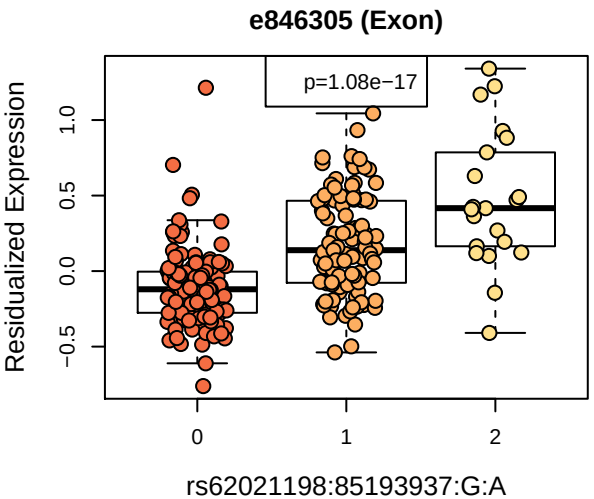
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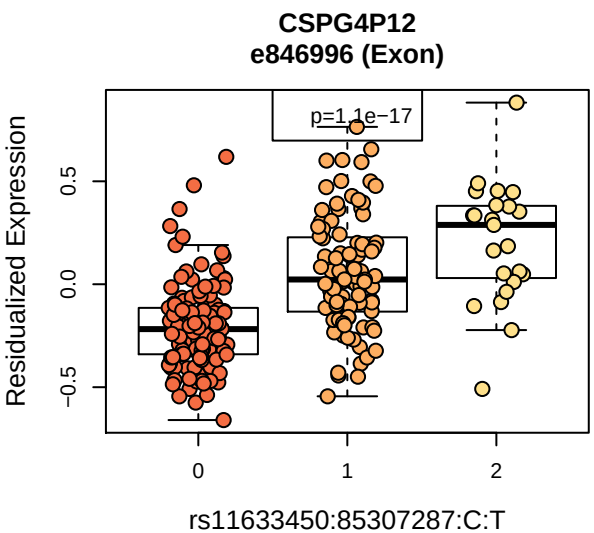
CSPG4P12
e846996 (Exon)
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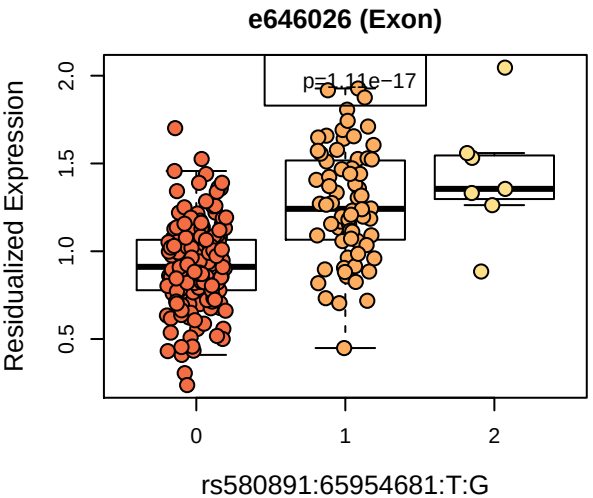
e646026 (Exon)
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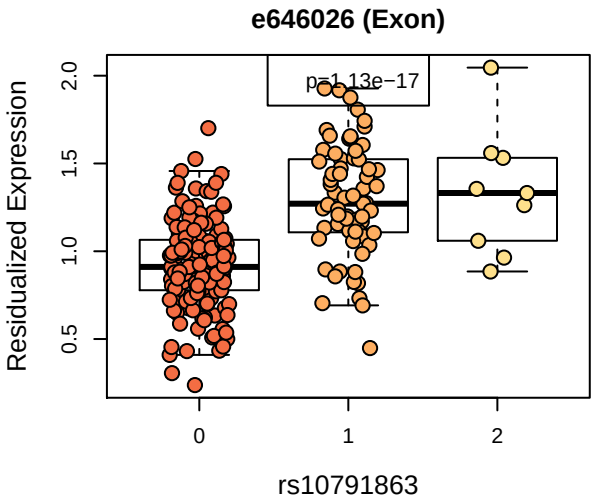
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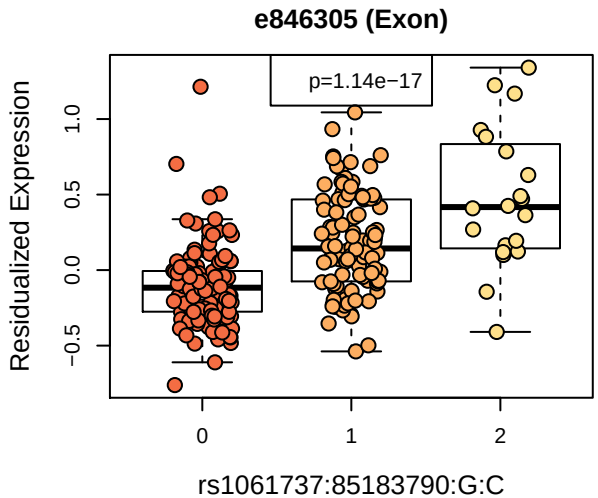
e846305 (Exon)
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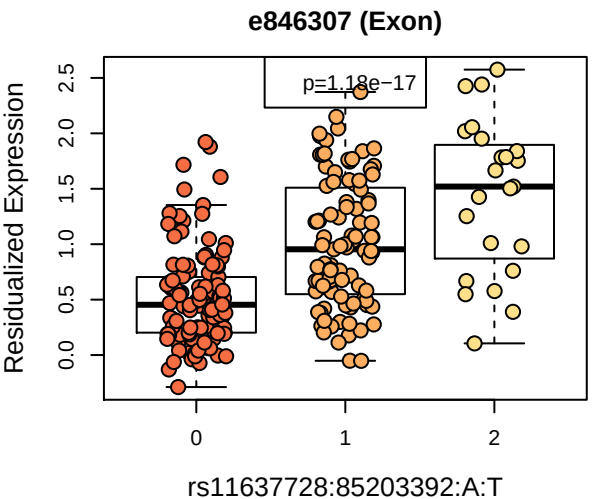
e846307 (Exon)
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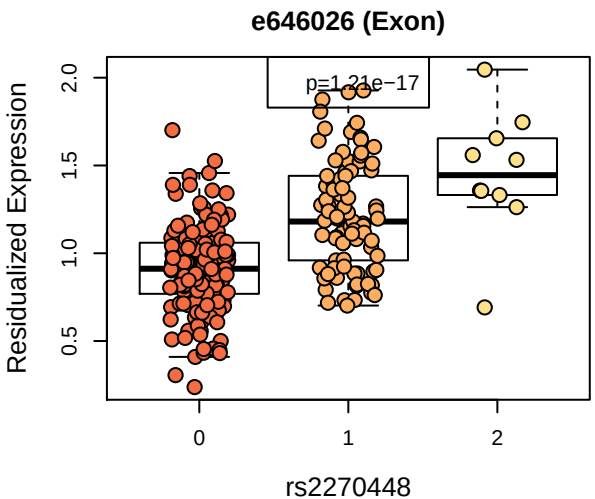
e646026 (Exon)
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Residualized Expression
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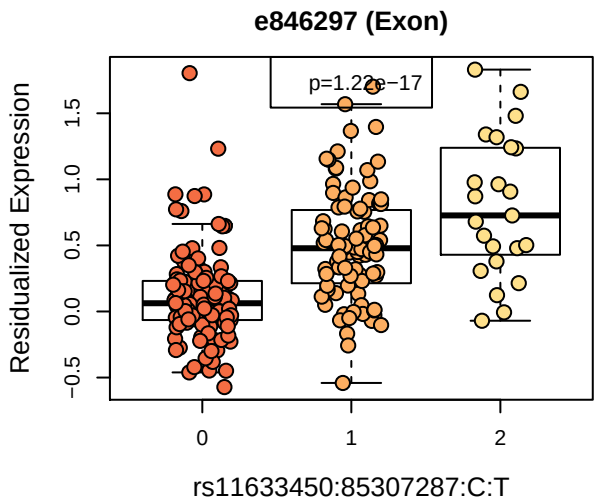
e846297 (Exon)
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Residualized Expression
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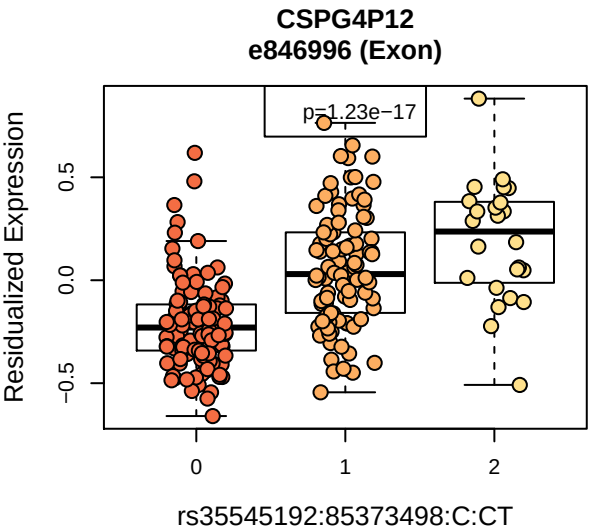
CSPG4P12
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Residualized Expression
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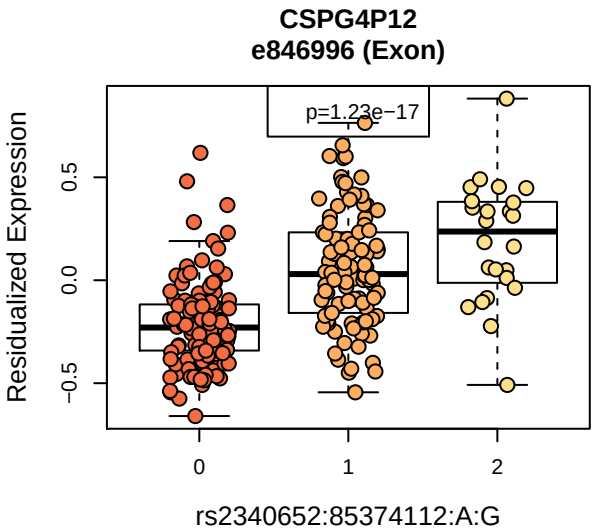
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e846996 (Exon)
p=1.23e−17
Residualized Expression
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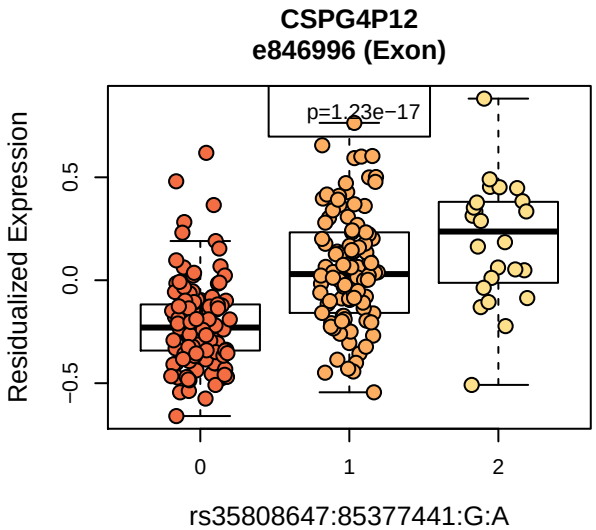
CSPG4P12
e846996 (Exon)
p=1.23e−17
Residualized Expression
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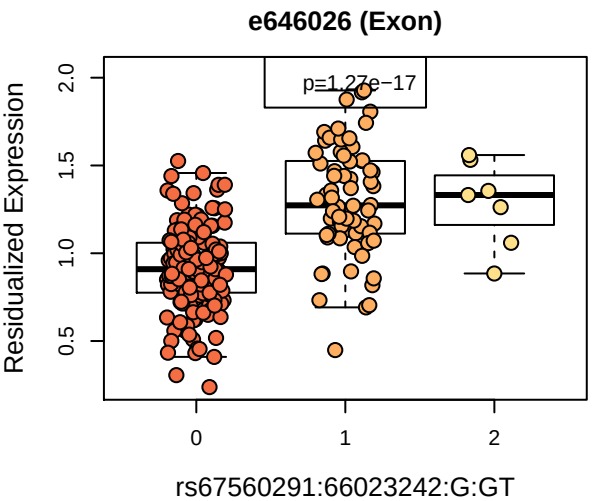
e646026 (Exon)
p=1.27e−17
Residualized Expression
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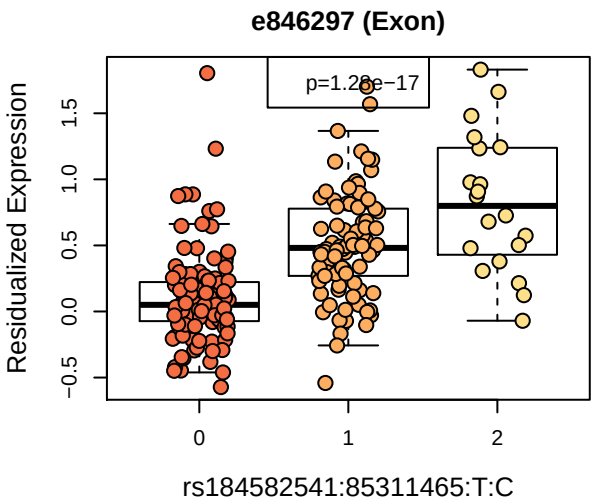
e846297 (Exon)
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Residualized Expression
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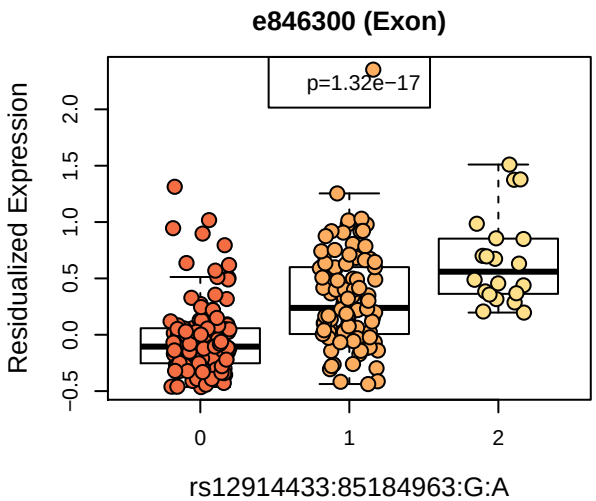
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Residualized Expression
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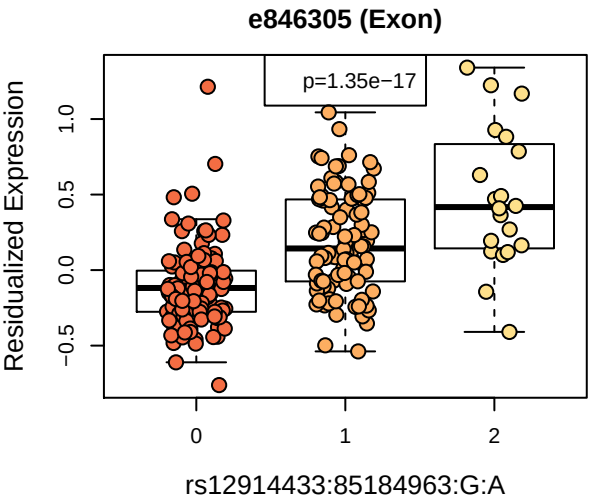
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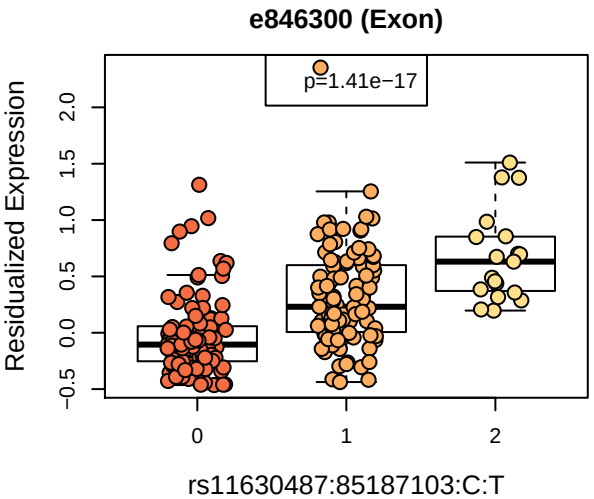
p=1.35e−17
Residualized Expression
rs12914433:85184963:G:A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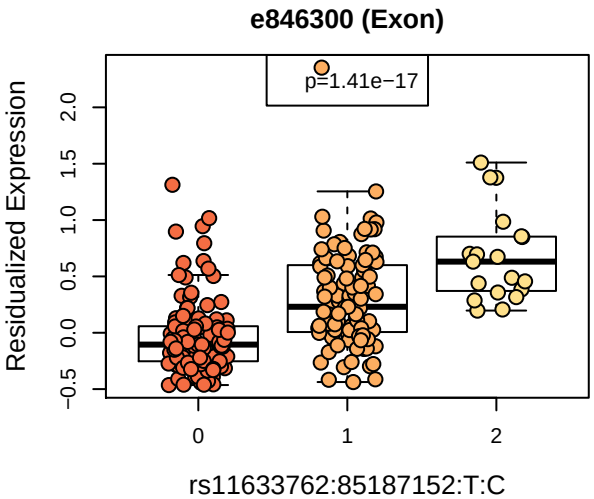
e846300 (Exon)
p=1.41e−17
Residualized Expression
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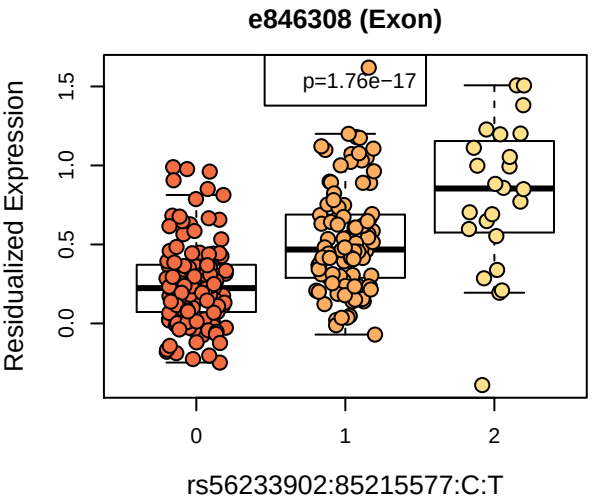
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p=1.76e−17
Residualized Expression
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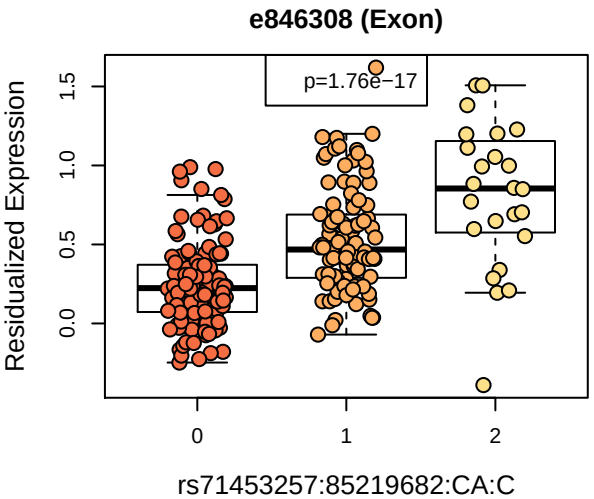
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Residualized Expression
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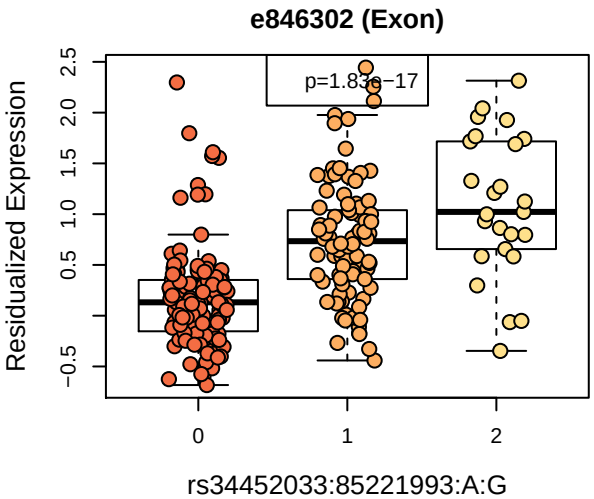
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p=1.83e−17
Residualized Expression
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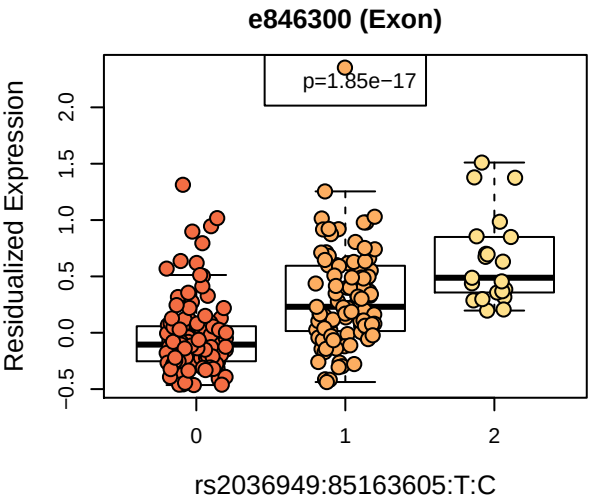
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p=1.85e−17
Residualized Expression
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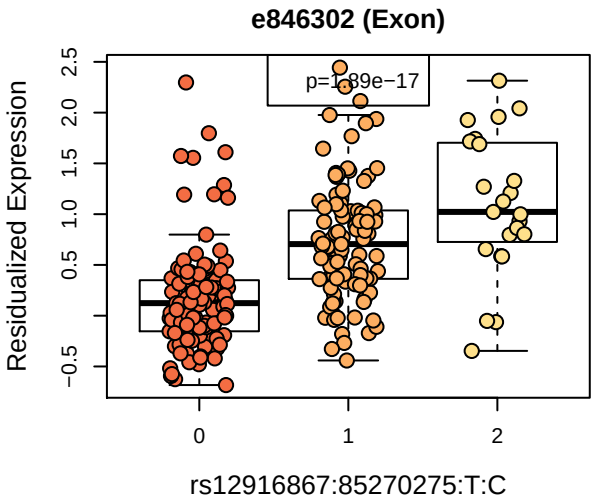
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Residualized Expression
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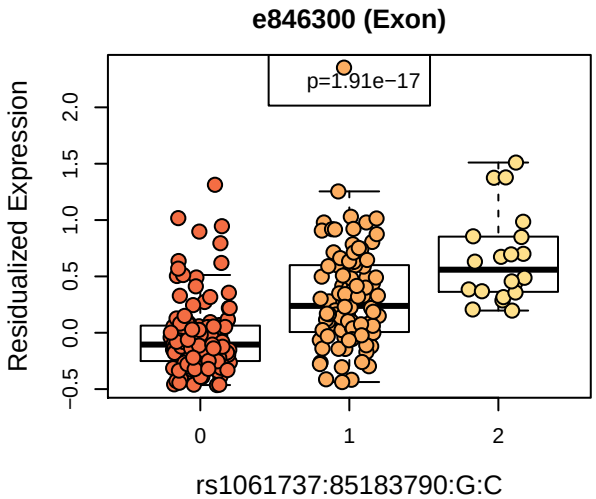
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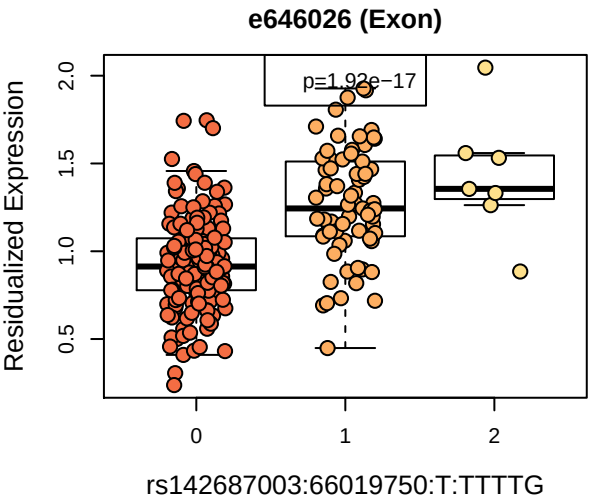
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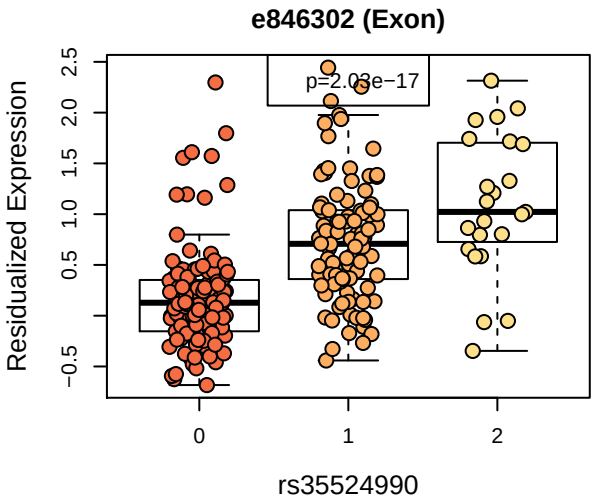
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Residualized Expression
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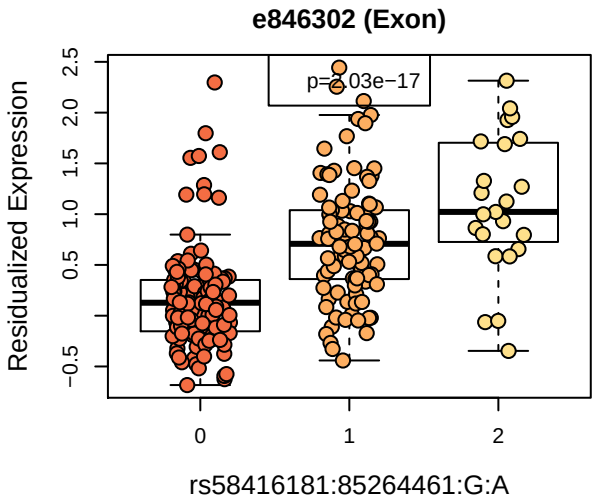
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p=2.03e−17
Residualized Expression
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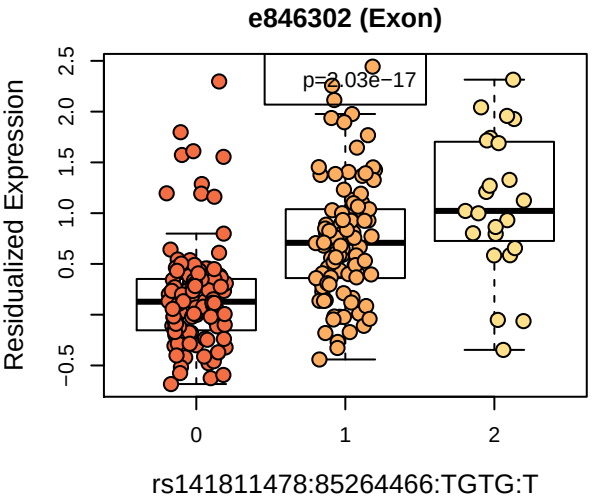
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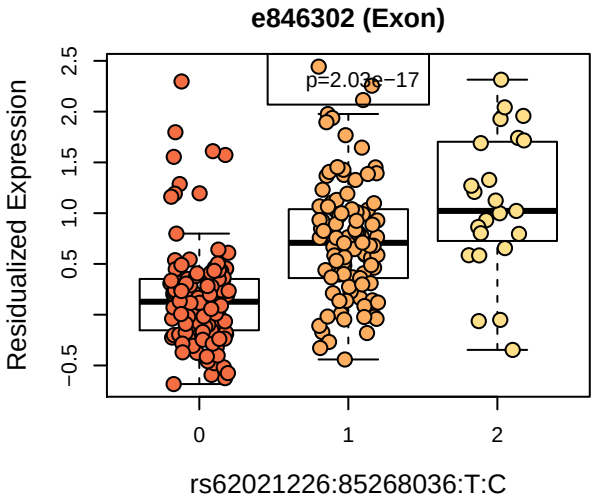
e846302 (Exon)
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1.5
1.0
0.5
−0.5
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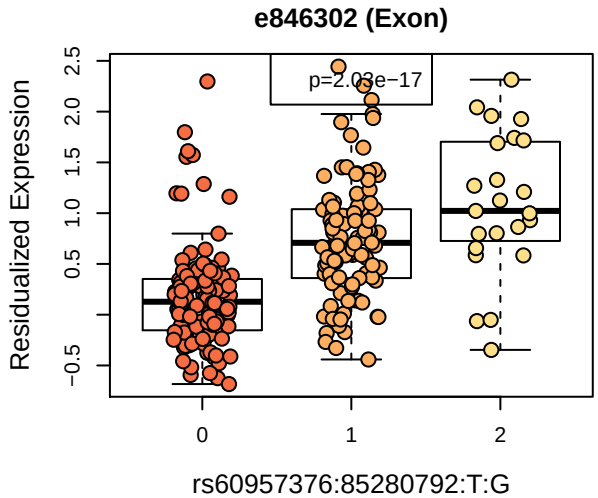
e846302 (Exon)
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1.5
1.0
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−0.5
0
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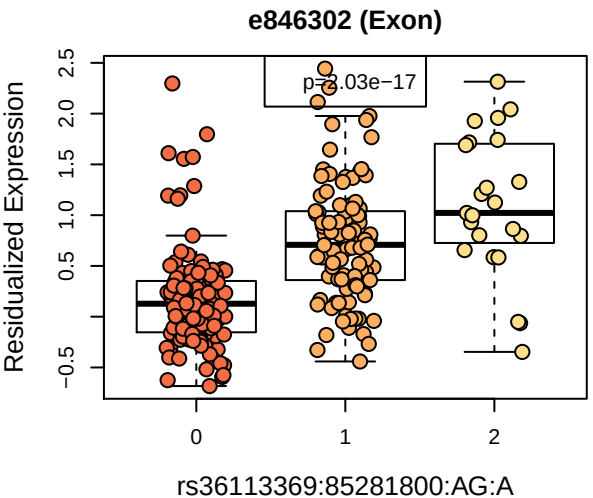
e846302 (Exon)
p=2.03e−17
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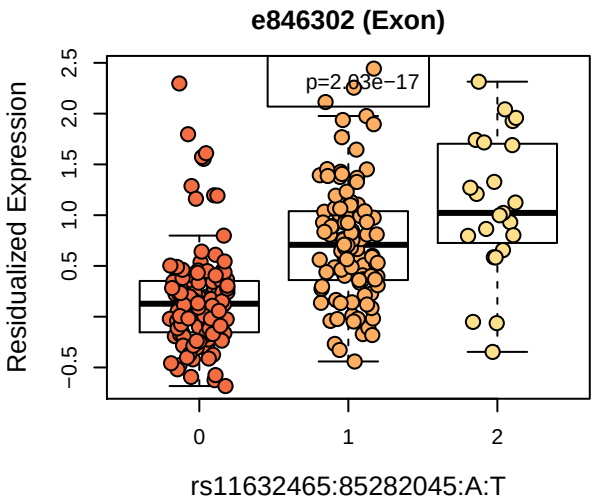
e846302 (Exon)
p=2.03e−17
Residualized Expression
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1.0
0.5
−0.5
0
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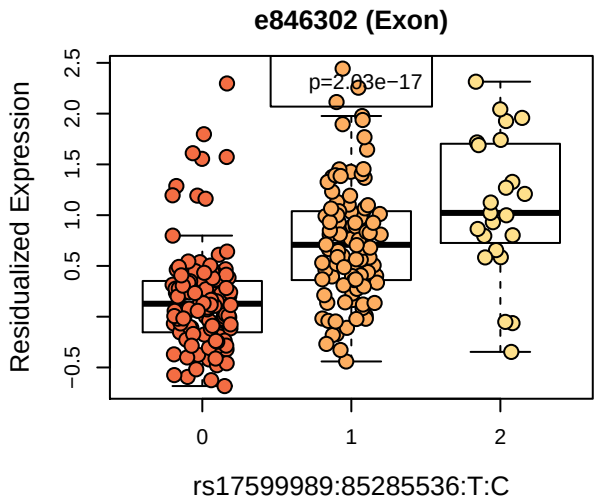
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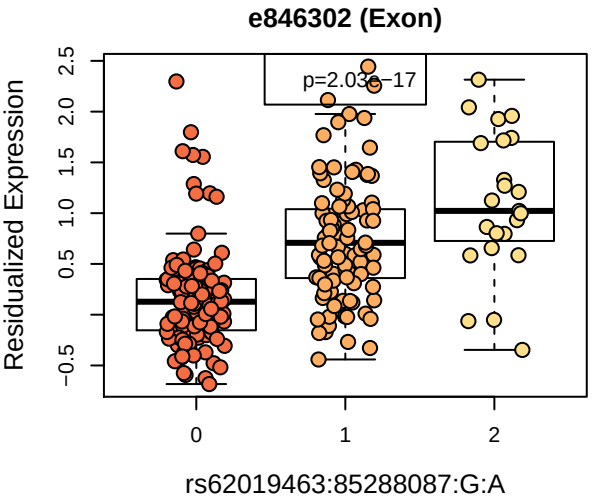
e846302 (Exon)
p=2.03e−17
Residualized Expression
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1.0
0.5
−0.5
0
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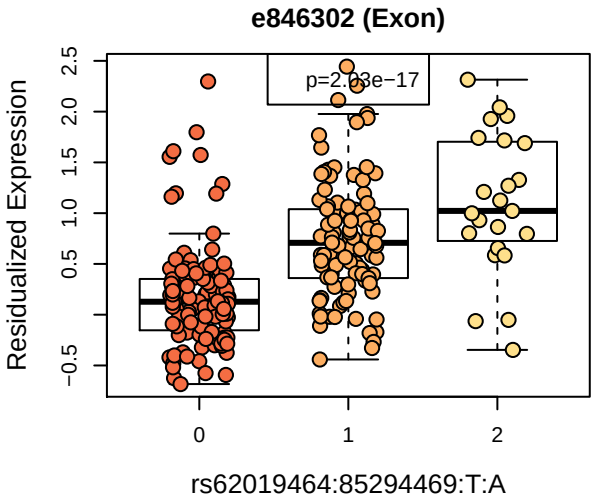
e846302 (Exon)
p=2.03e−17
Residualized Expression
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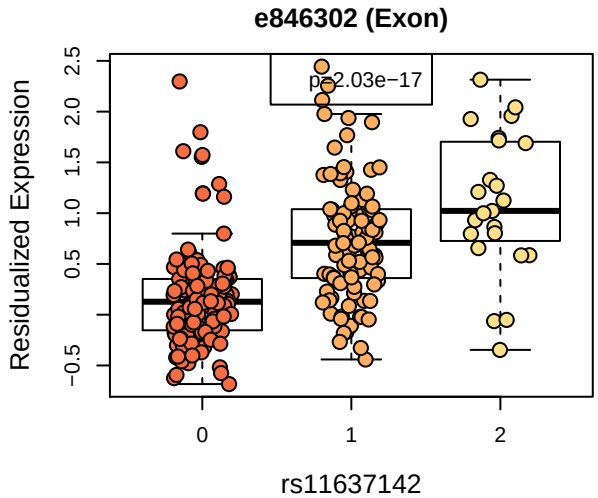
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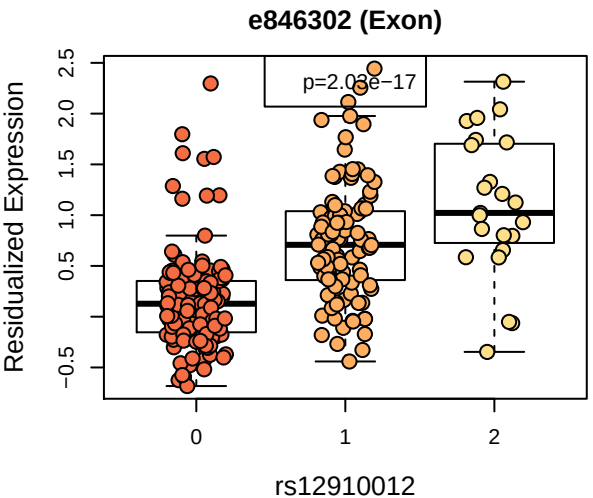
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Residualized Expression
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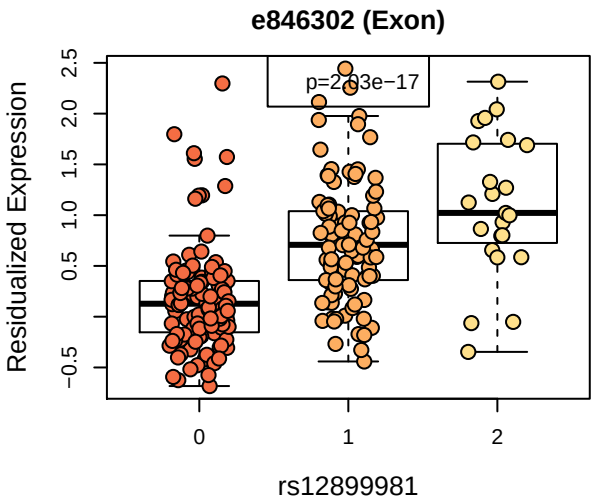
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Residualized Expression
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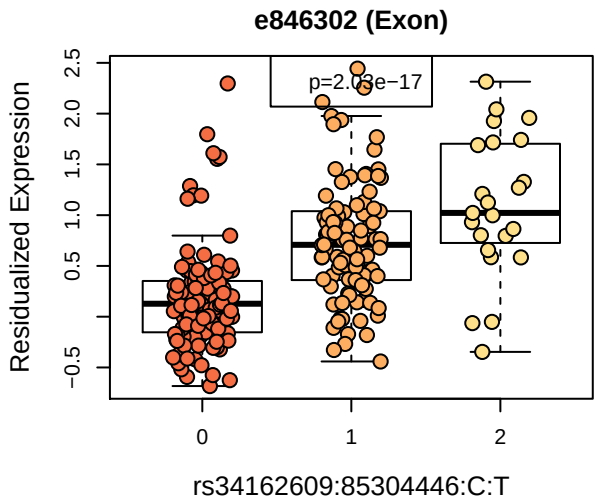
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p=2.03e−17
Residualized Expression
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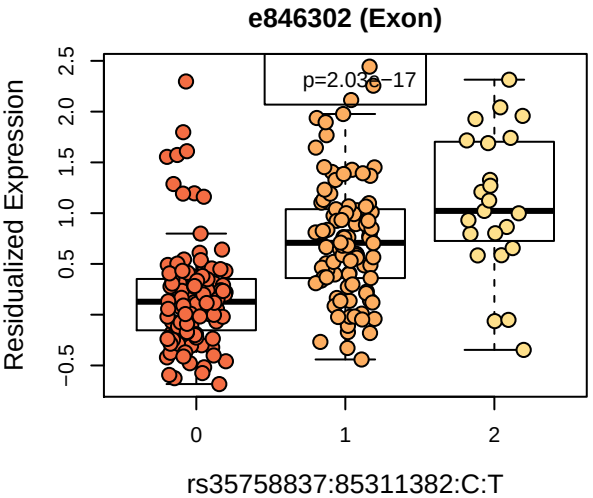
e846302 (Exon)
p=2.03e−17
Residualized Expression
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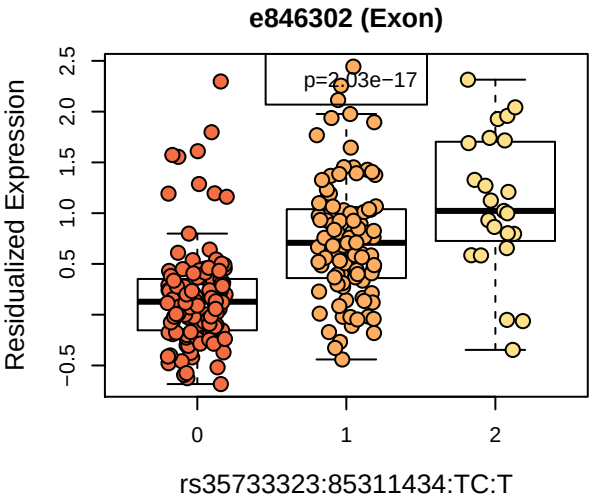
e846302 (Exon)
p=2.03e−17
Residualized Expression
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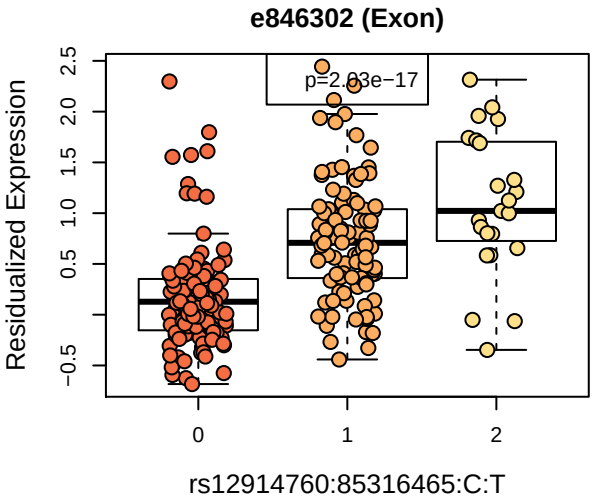
e846302 (Exon)
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Residualized Expression
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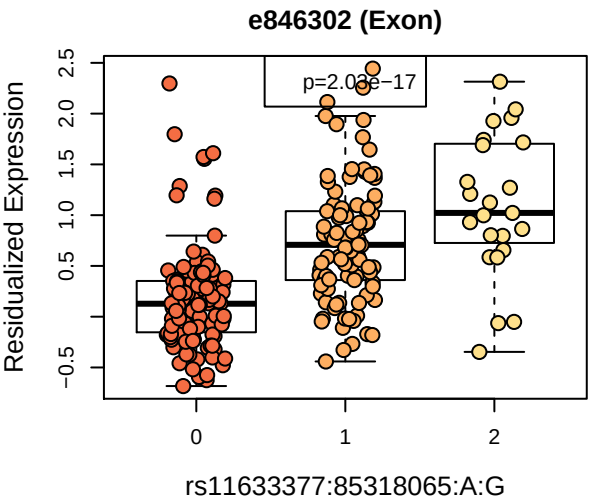
e846302 (Exon)
p=2.03e−17
Residualized Expression
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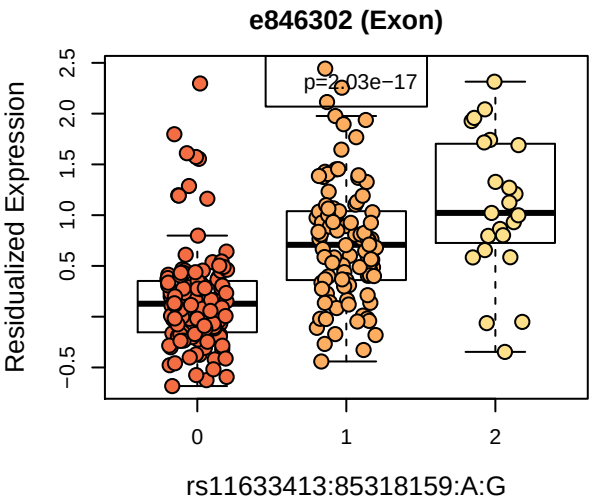
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p=2.03e−17
Residualized Expression
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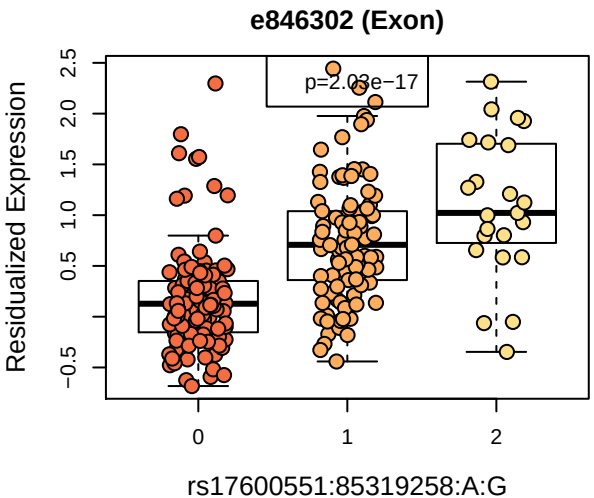
e846302 (Exon)
p=2.03e−17
Residualized Expression
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1.5
1.0
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0
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2
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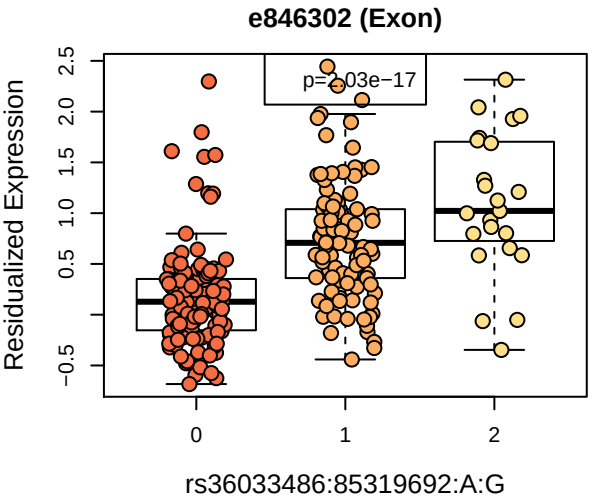
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Residualized Expression
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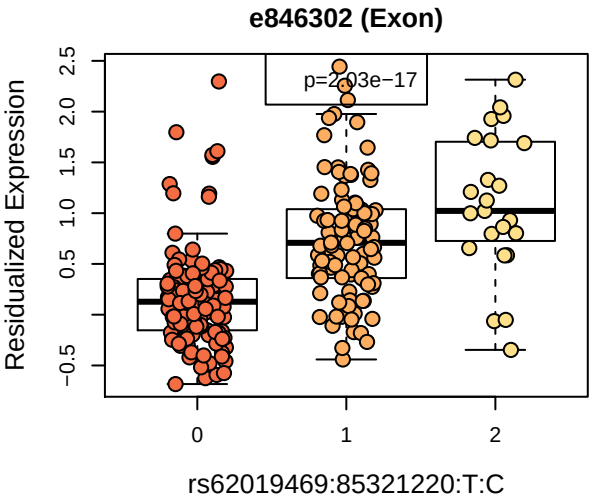
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p=2.03e−17
Residualized Expression
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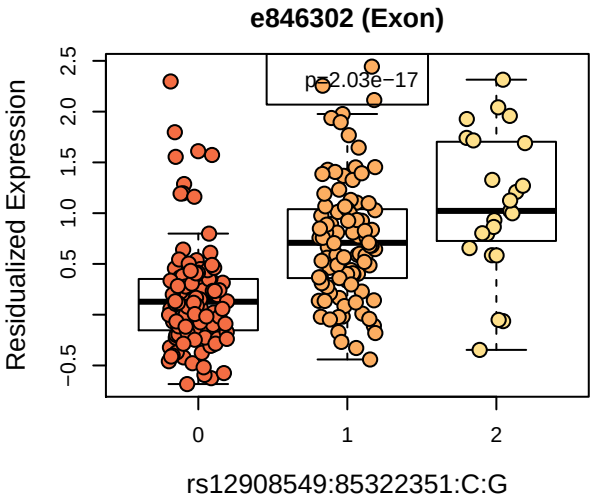
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p=2.03e−17
Residualized Expression
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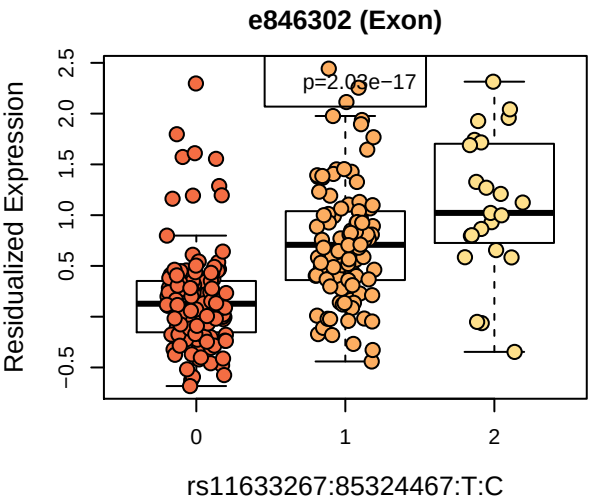
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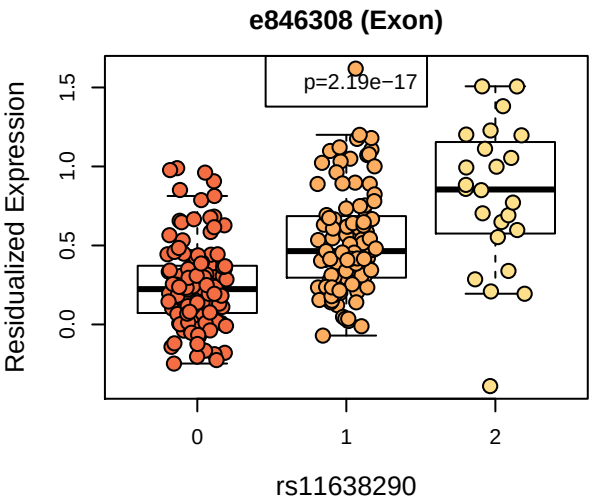
p=2.03e−17
Residualized Expression
rs11633267:85324467:T:C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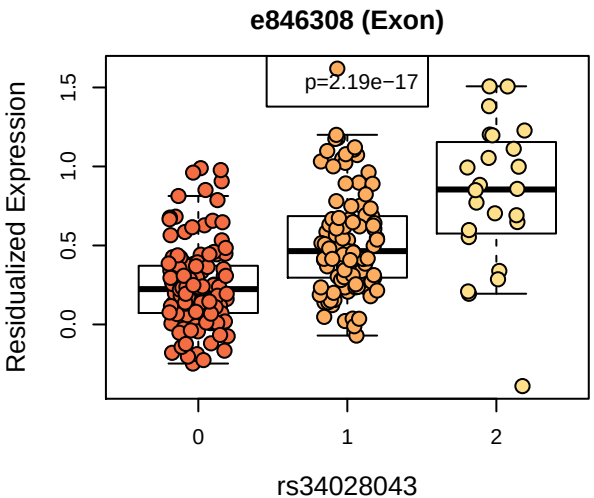
p=2.19e−17
Residualized Expression
rs11638290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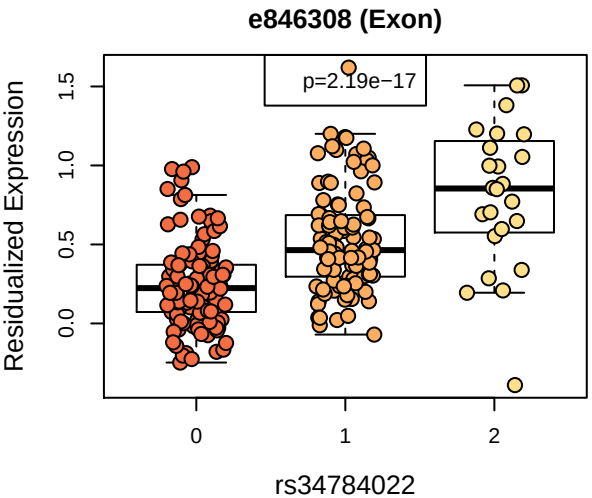
Residualized Expression
rs34028043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Residualized Expression
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2
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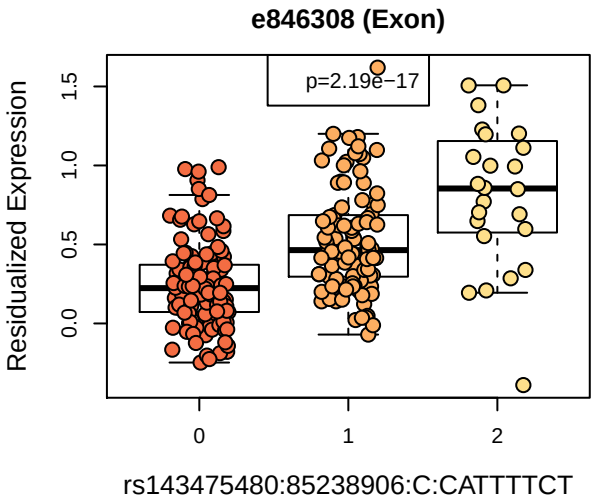
e846308 (Exon)
p=2.19e−17
Residualized Expression
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1
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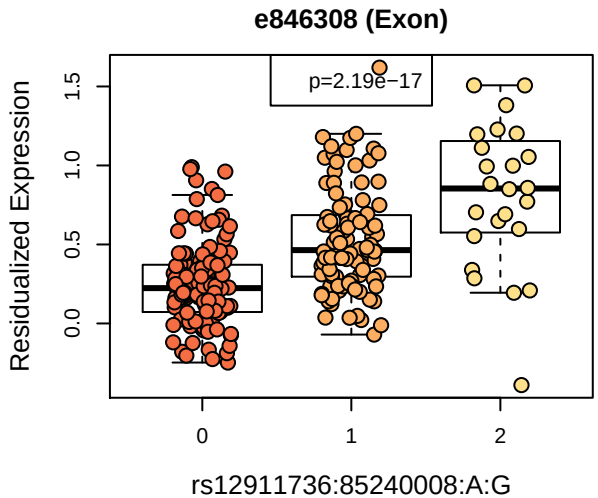
e846308 (Exon)
p=2.19e−17
Residualized Expression
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1.5
0
1
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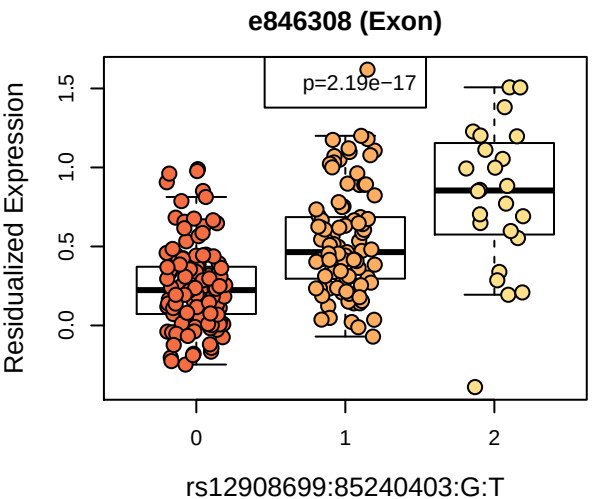
e846308 (Exon)
p=2.19e−17
Residualized Expression
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1.0
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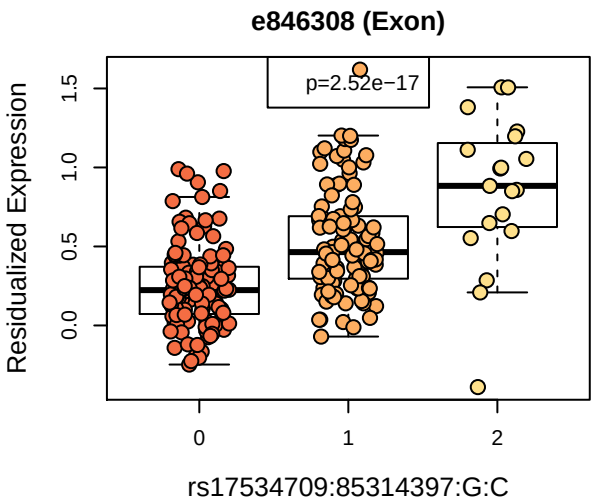
0
1
2
rs12908699:85240403:G:T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Residualized Expression
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1.0
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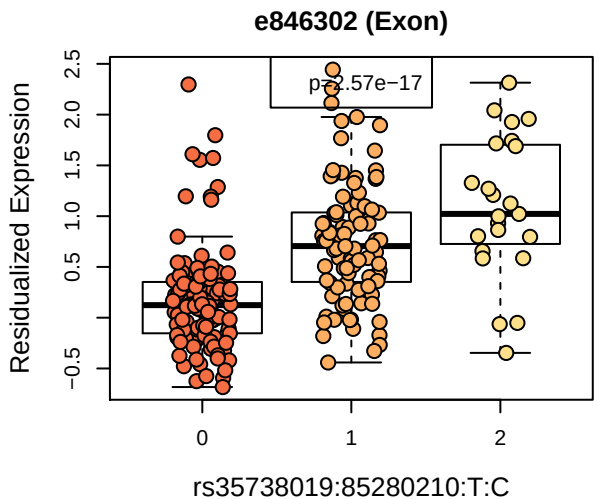
0
1
2
rs17534709:85314397:G:C


e846302 (Exon)
p=2.57e−17
Residualized Expression
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2.0
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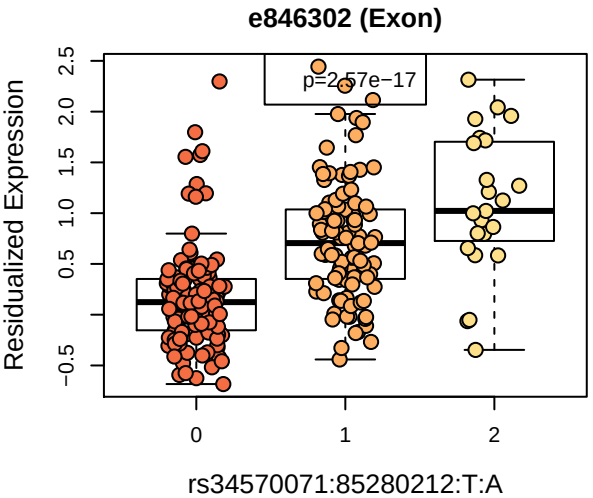
0
1
2
rs35738019:85280210:T:C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Residualized Expression
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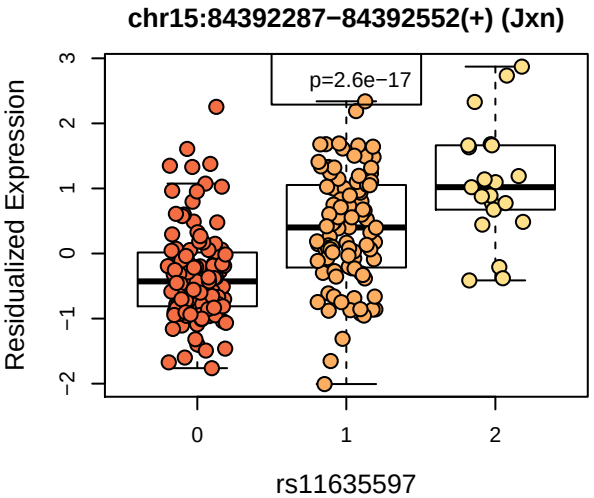
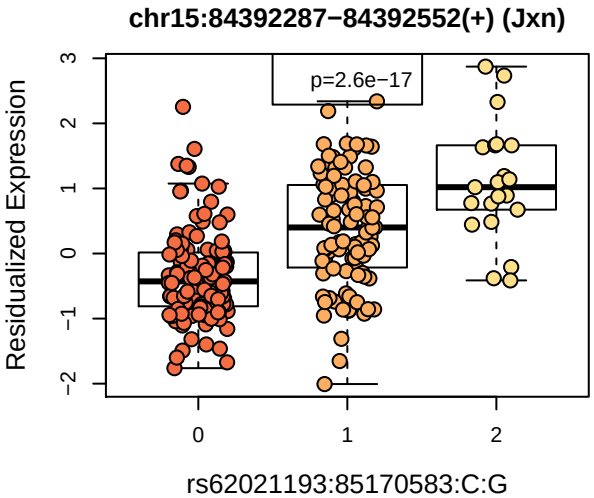

chr15:84392287−84392552(+) (Jxn)
p=2.6e−17
Residualized Expression
rs11635597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p=2.6e−17
Residualized Expression
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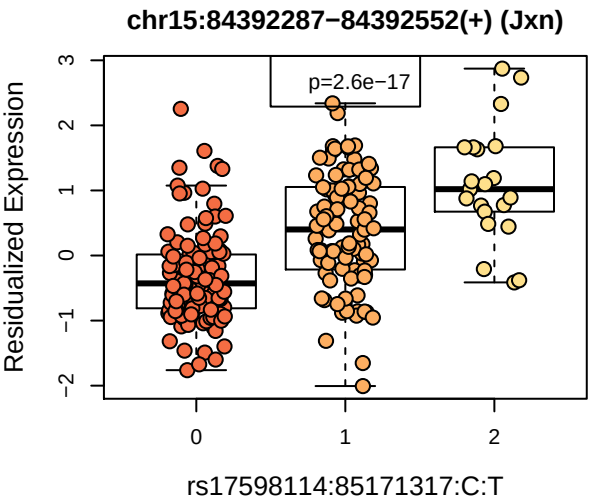
chr15:84392287−84392552(+) (Jxn)
p=2.6e−17
Residualized Expression
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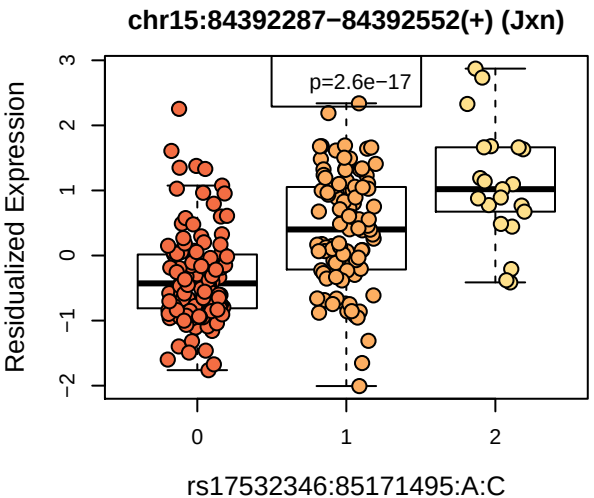
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p=2.6e−17
Residualized Expression
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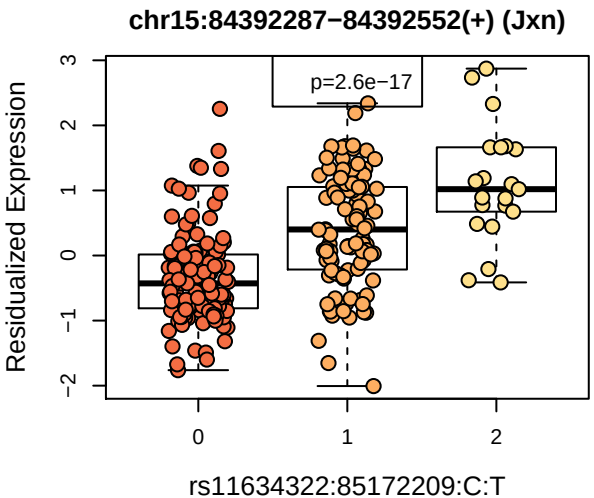
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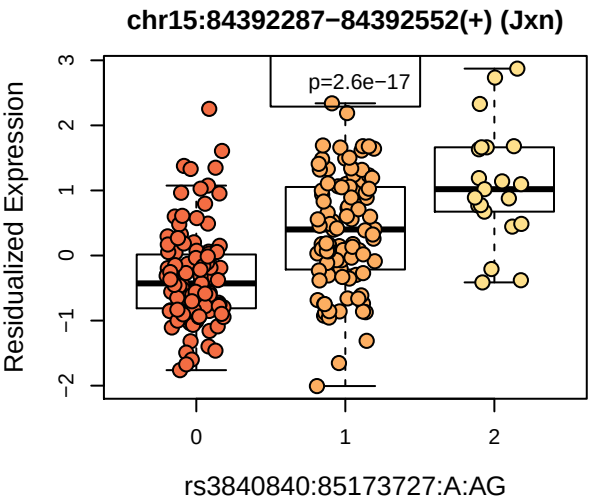
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p=2.6e−17
Residualized Expression
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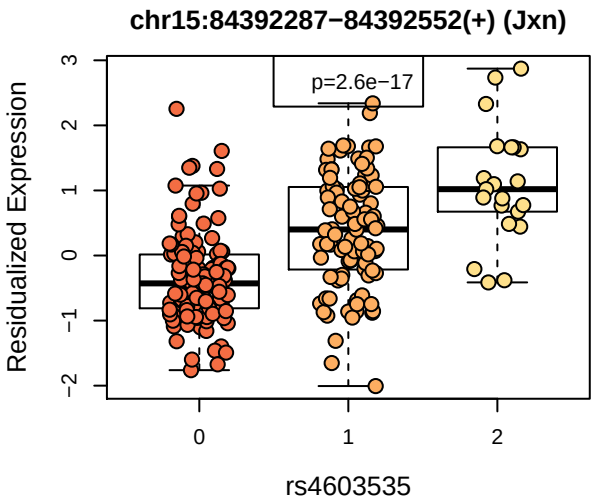
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Residualized Expression
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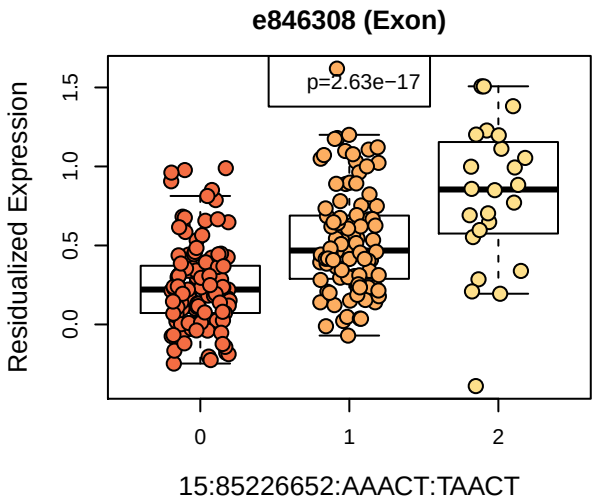
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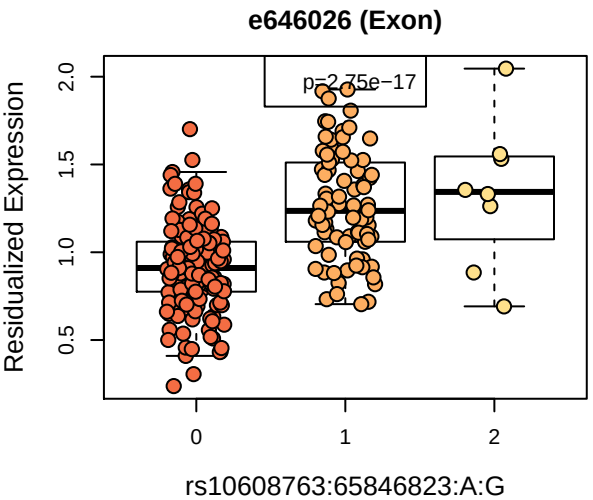
p=2.63e−17
Residualized Expression
15:85226652:AAACT:TAACT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p=2.75e−17
Residualized Expression
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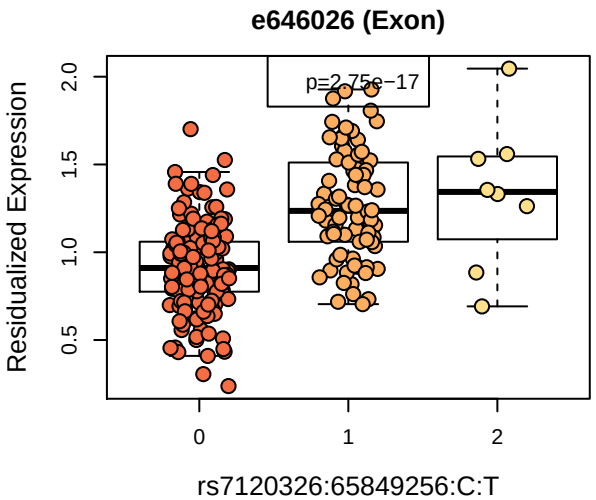
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p=2.75e−17
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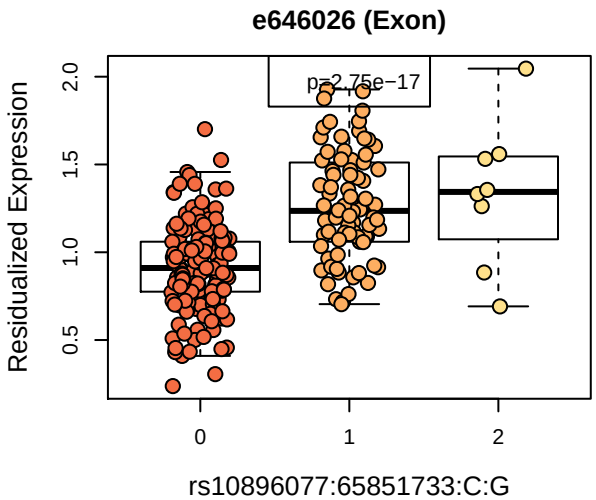
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p=2.75e−17
Residualized Expression
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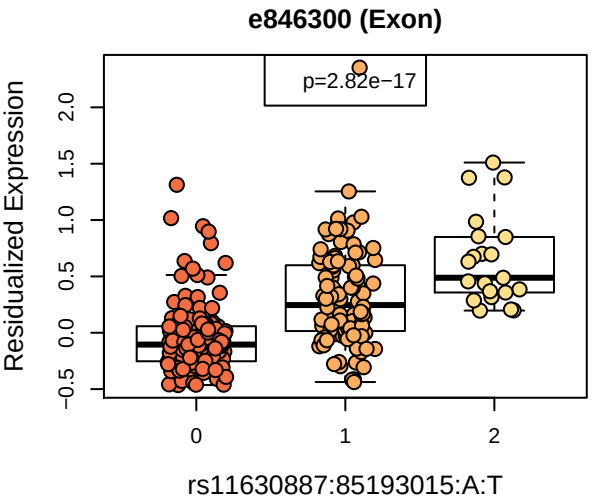
e846300 (Exon)
p=2.82e−17
Residualized Expression
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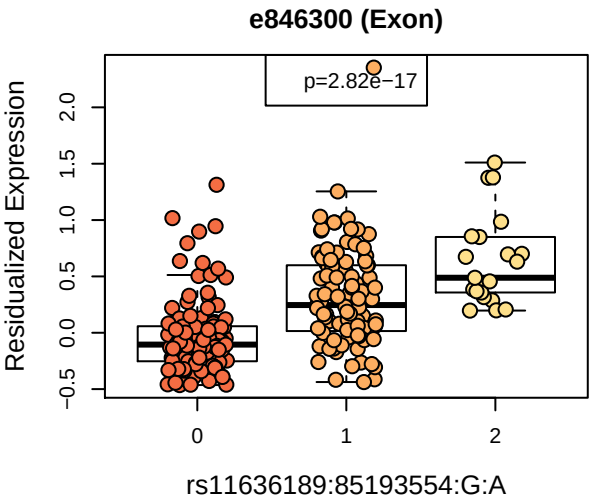
1.0
1.5
2.0
0
1
2
rs11630887:85193015:A:T


e846300 (Exon)
p=2.82e−17
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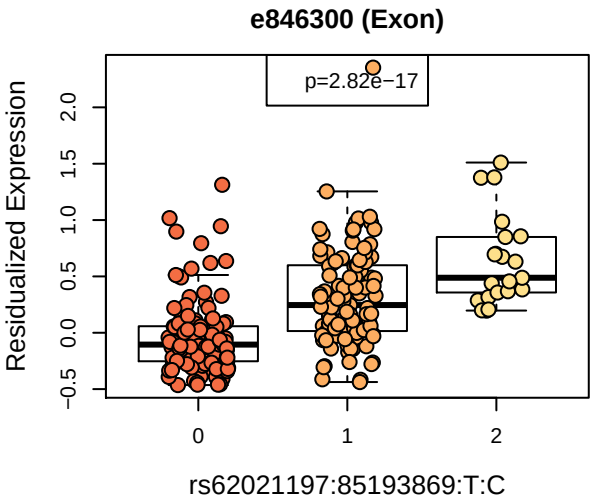
1.0
1.5
2.0
0
1
2
rs11636189:85193554:G:A


e846300 (Exon)
p=2.82e−17
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1.0
1.5
2.0
0
1
2
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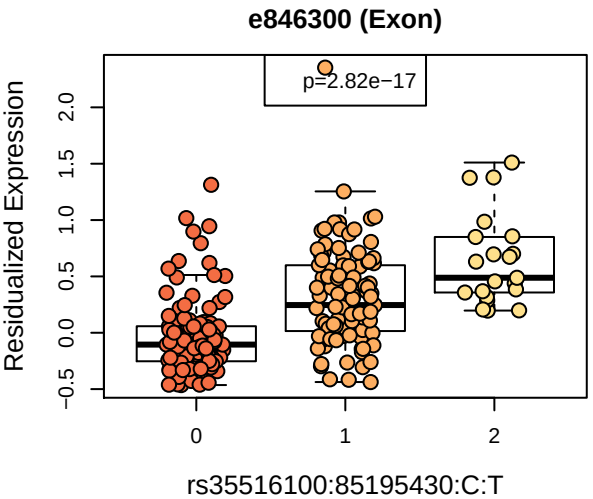
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p=2.82e−17
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1.0
1.5
2.0
0
1
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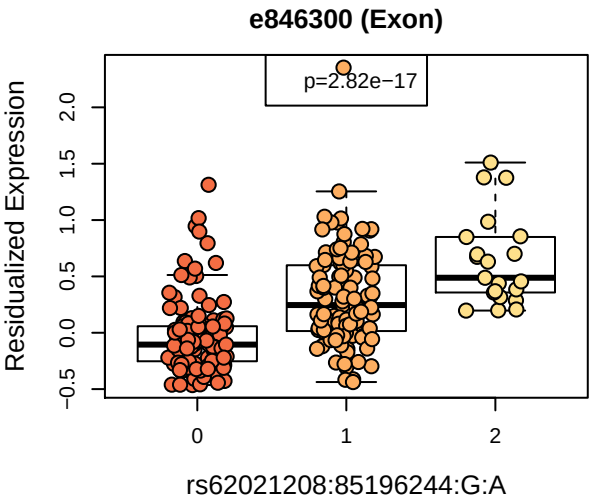
e846300 (Exon)
p=2.82e−17
Residualized Expression
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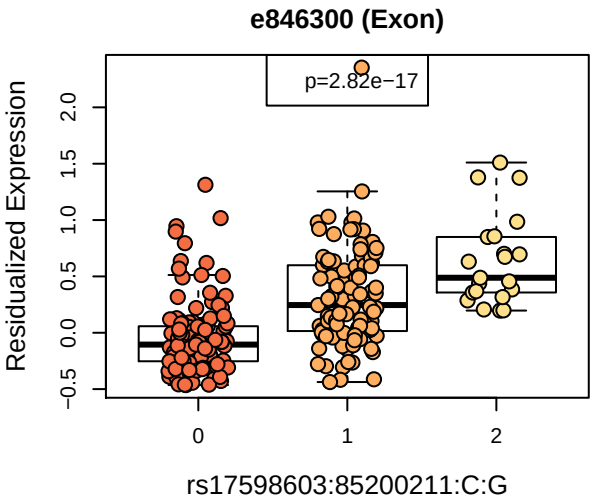
0.5
1.0
1.5
2.0
0
1
2
rs62021208:85196244:G:A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p=2.82e−17
Residualized Expression
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1.5
2.0
0
1
2
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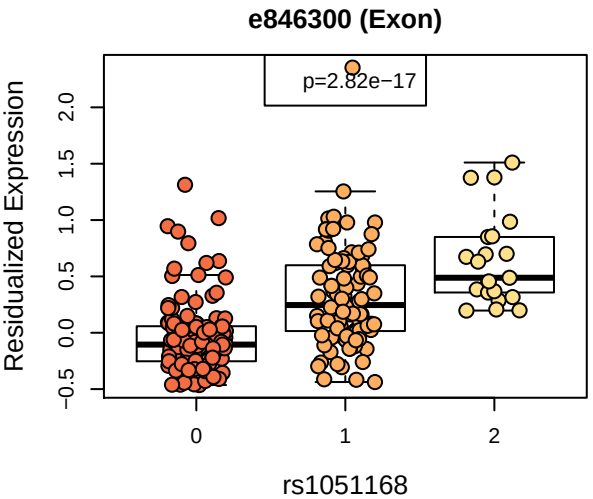
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p=2.82e−17
Residualized Expression
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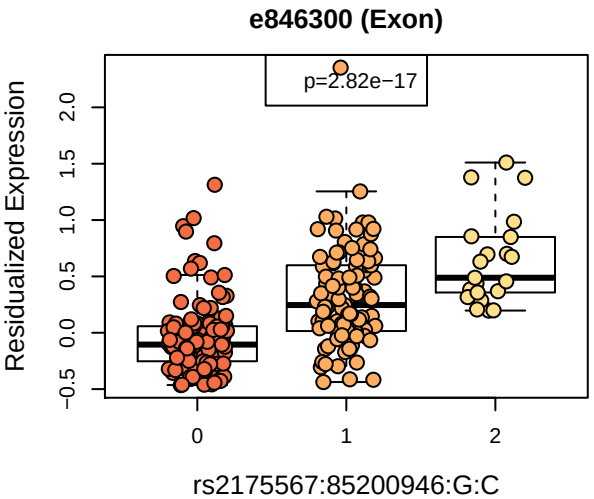
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Residualized Expression
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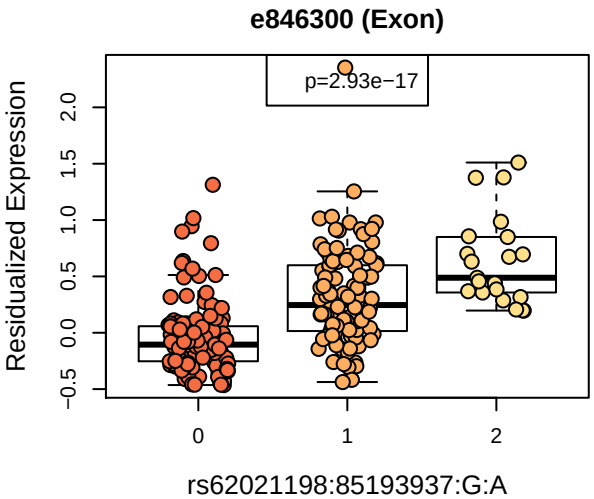
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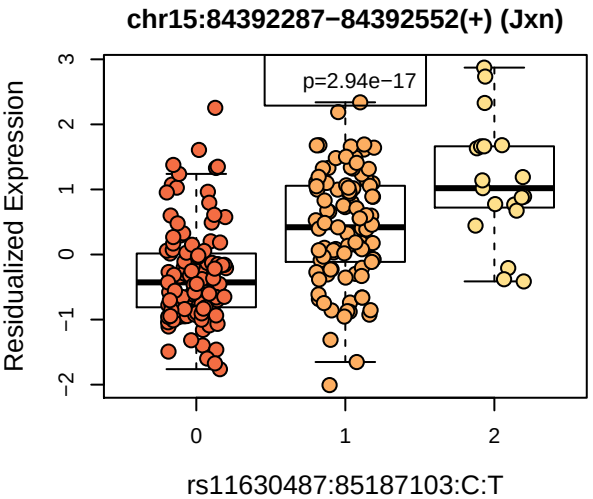
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Residualized Expression
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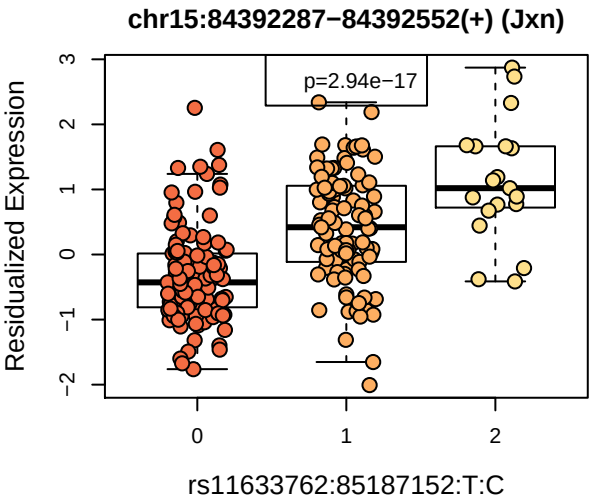
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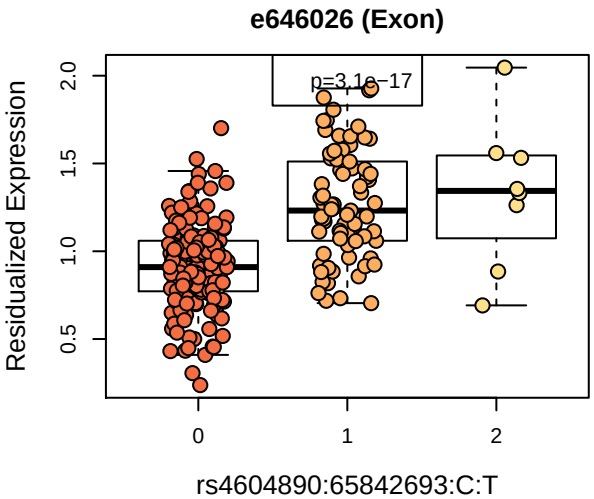
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p=3.1e−17
Residualized Expression
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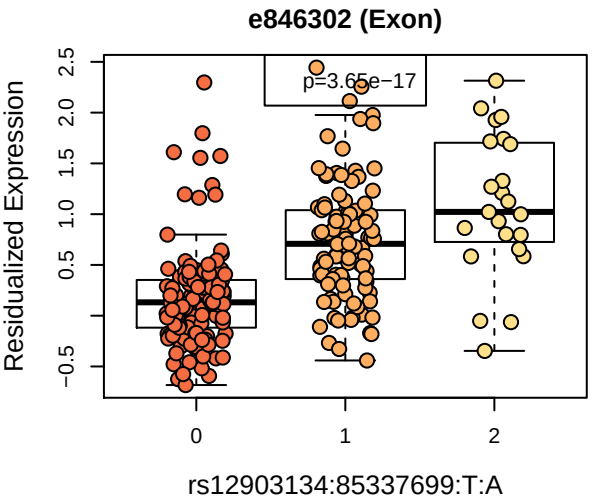
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p=3.65e−17
Residualized Expression
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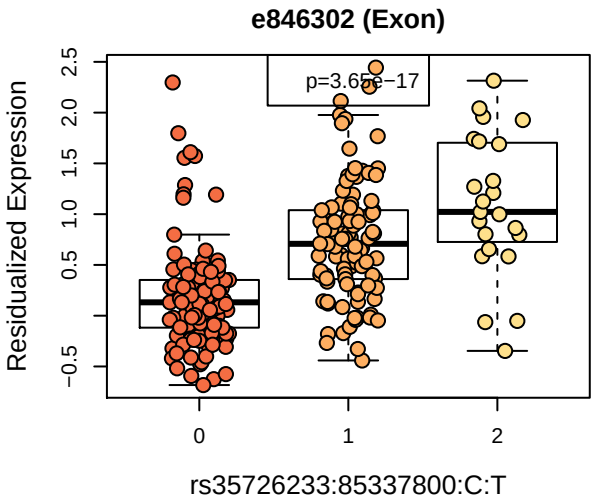
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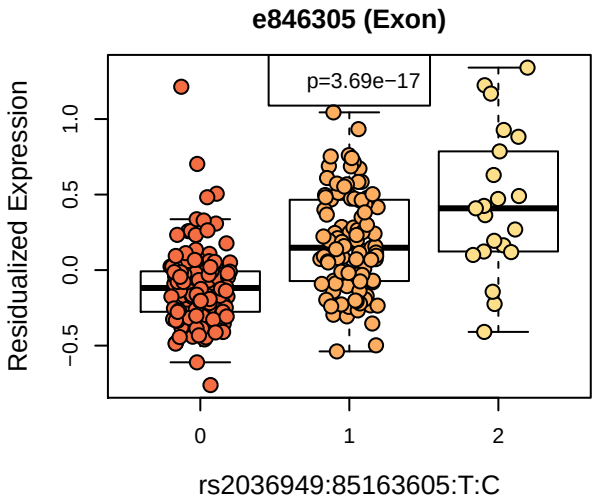
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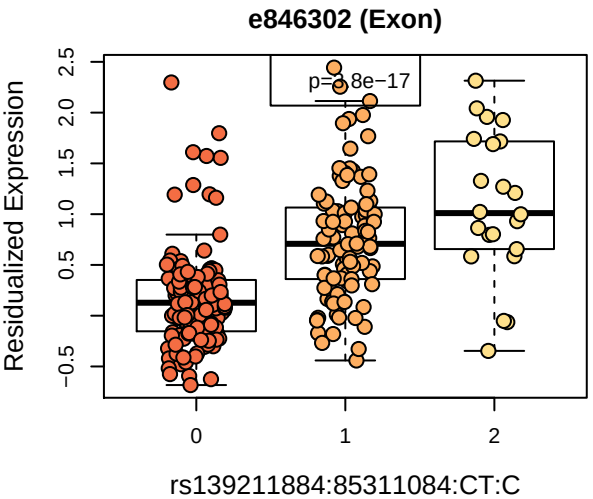
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Residualized Expression
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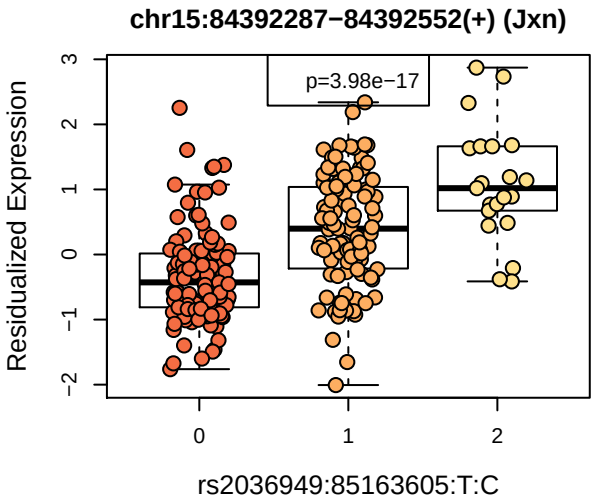
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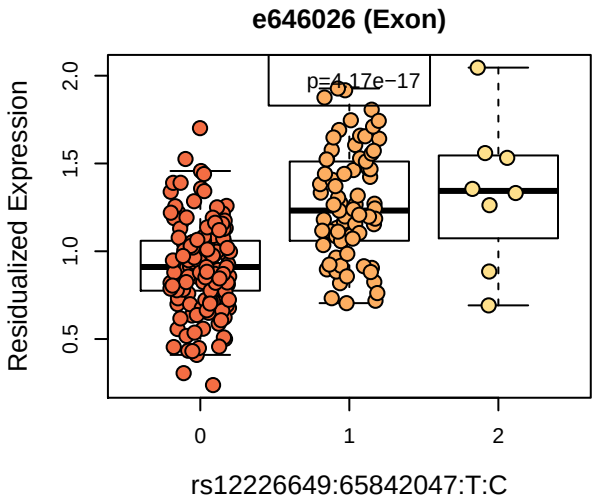
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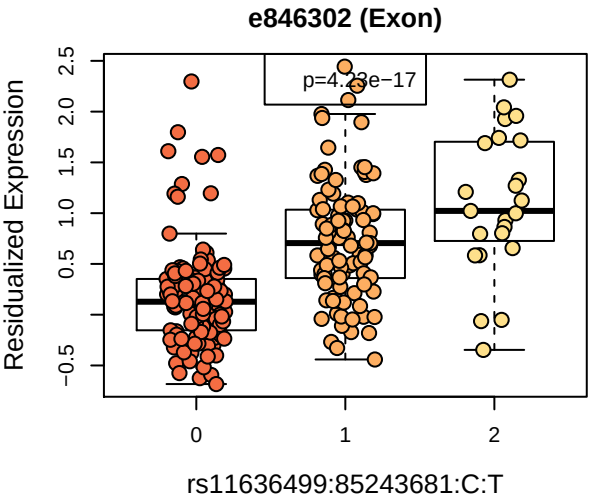
e846302 (Exon)
p=4.23e−17
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0
1
2
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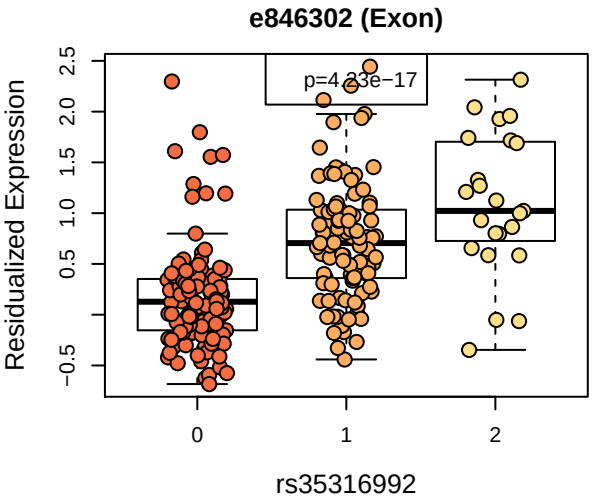
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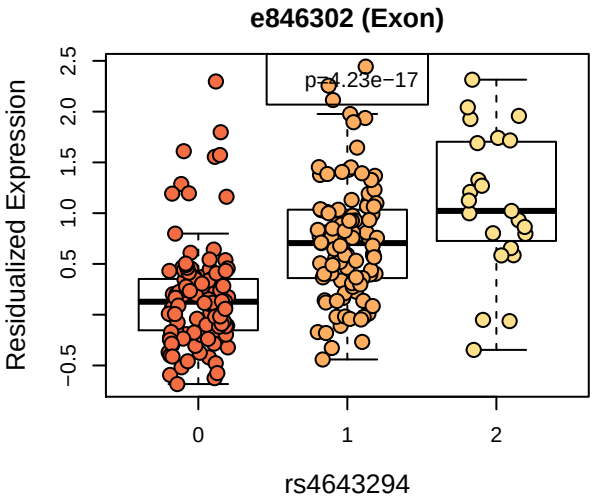
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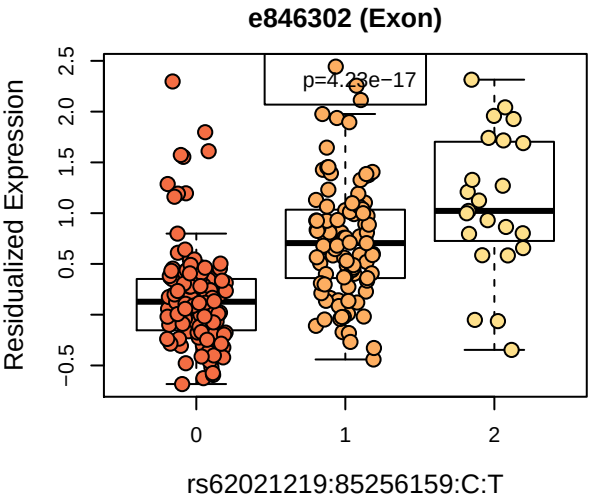
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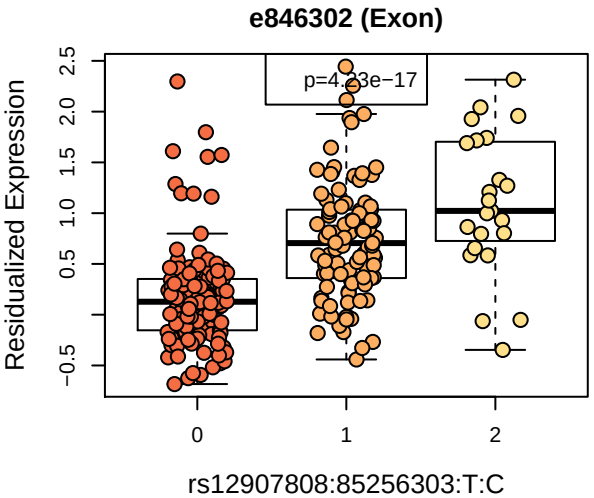
e846302 (Exon)
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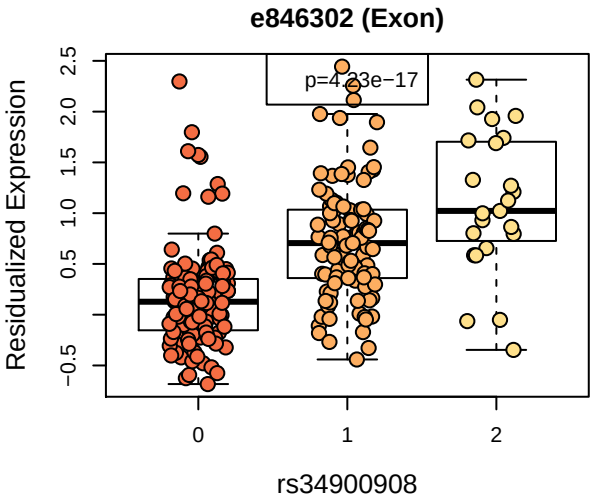
e846302 (Exon)
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Residualized Expression
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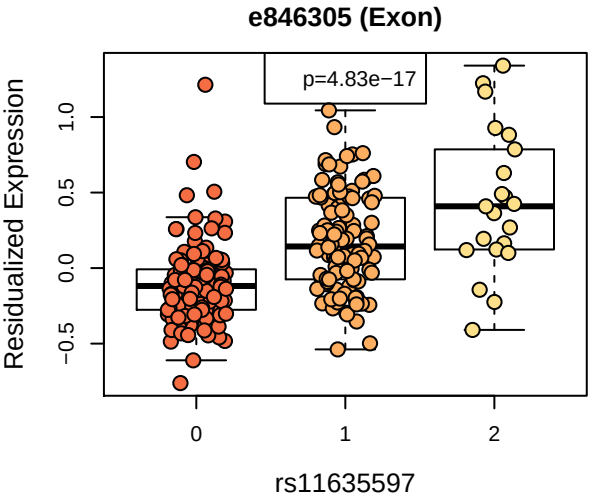
e846305 (Exon)
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Residualized Expression
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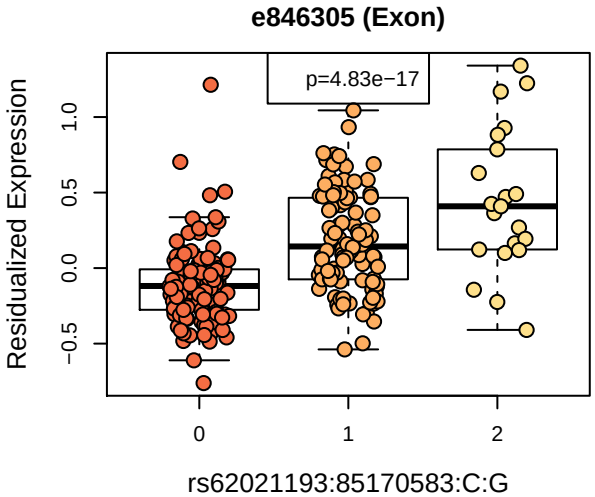
1
2
rs11635597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p=4.83e−17
Residualized Expression
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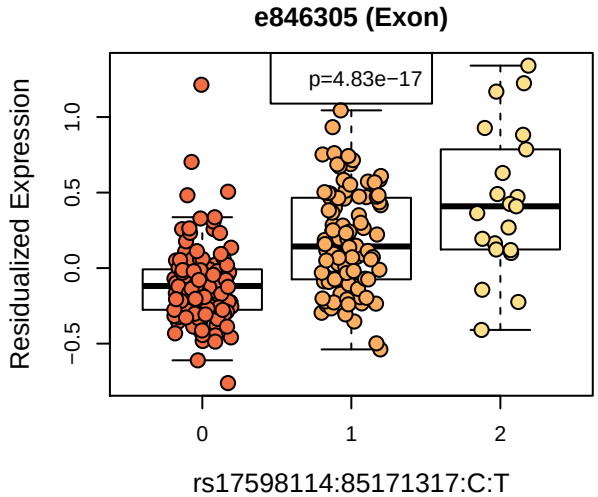
e846305 (Exon)
p=4.83e−17
Residualized Expression
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−0.5
0
1
2
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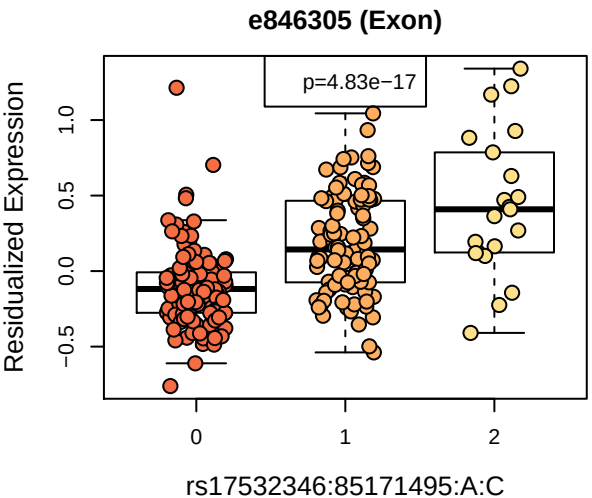
e846305 (Exon)
p=4.83e−17
Residualized Expression
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0.0
−0.5
0
1
2
rs17532346:85171495:A:C