iClust 1: N = 140 iClust 2: N = 72 FoxA1|ILMN\_1766650 (ER binding) FoxA1|ILMN\_1766650 (ER binding) [<=60] p = 0.104No detectable trend: [<=60] p = 0.36807No detectable trend: 16 16 [>60] p = 0.23671 [>60] p = 0.021405 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.0019328[AII] p = 0.322774 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω  $\infty$ 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis iClust 3: N = 294 iClust 4: N = 344 FoxA1|ILMN\_1766650 (ER binding) FoxA1|ILMN\_1766650 (ER binding) [<=60] p = 0.9694No detectable trend: [<=60] p = 0.94863No detectable trend: 16 16 [>60] p = 0.043861 [>60] p = 0.0073248 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.00046233[AII] p = 0.00384594 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω  $\infty$ 9 9 20 40 60 80 100 20 40 60 80 100

Age at diagnosis

Age at diagnosis

iClust 5: N = 191 iClust 6: N = 86 FoxA1|ILMN\_1766650 (ER binding) FoxA1|ILMN\_1766650 (ER binding) [<=60] p = 0.0103 No detectable trend: [<=60] p = 0.30026No detectable trend: 16 16 [>60] p = 0.43275 [>60] p = 0.50793|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.0024224[AII] p = 0.469174 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 10 ω  $\infty$ 9 9 20 40 60 80 20 40 60 80 100 100 Age at diagnosis Age at diagnosis iClust 7: N = 193 iClust 8: N = 300 FoxA1|ILMN\_1766650 (ER binding) FoxA1|ILMN\_1766650 (ER binding) [<=60] p = 0.18725No detectable trend: [<=60] p = 0.38722No detectable trend: 16 16 [>60] p = 0.57256 [>60] p = 0.39055|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.070642[AII] p = 0.00715534 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω  $\infty$ 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis

iClust 9: N = 146 FoxA1|ILMN\_1766650 (ER binding)

iClust 10: N = 226 FoxA1|ILMN\_1766650 (ER binding)

