iClust 1: N = 140 iClust 2: N = 72 AK130049|ILMN\_1854469 (non-ER binding) AK130049|ILMN\_1854469 (non-ER binding) [<=60] p = 0.031138 No detectable trend: [<=60] p = 0.79145No detectable trend: 16 16 [>60] p = 0.15839 [>60] p = 0.055396|FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 4.1354e - 05[AII] p = 0.00702334 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 4: N = 344 iClust 3: N = 294 AK130049|ILMN\_1854469 (non-ER binding) AK130049|ILMN\_1854469 (non-ER binding) [<=60] p = 0.51219[<=60] p = 0.32173No detectable trend: No detectable trend: 16 16 [>60] p = 0.66166|FC|<4 or adjPval>0.01 [>60] p = 0.0020877 |FC|<4 or adjPval>0.01 [AII] p = 9.5125e - 09[AII] p = 6.3454e - 054 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 AK130049|ILMN\_1854469 (non-ER binding) AK130049|ILMN\_1854469 (non-ER binding) [<=60] p = 0.19085No detectable trend: [<=60] p = 0.8645No detectable trend: 16 16 [>60] p = 0.056241 [>60] p = 0.86518|FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.1136[AII] p = 0.000475354 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ω 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis iClust 7: N = 193 iClust 8: N = 300 AK130049|ILMN\_1854469 (non-ER binding) AK130049|ILMN\_1854469 (non-ER binding) [<=60] p = 0.095664No detectable trend: [<=60] p = 0.31262No detectable trend: 16 16 [>60] p = 0.26465 |FC|<4 or adjPval>0.01 [>60] p = 0.12938 |FC|<4 or adjPval>0.01 [AII] p = 0.019425[AII] p = 2.8883e-064 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ω 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis

iClust 9: N = 146 AK130049|ILMN\_1854469 (non-ER binding)

iClust 10: N = 226 AK130049|ILMN\_1854469 (non-ER binding)

