iClust 1: N = 140 iClust 2: N = 72 AK097370|ILMN\_1656801 (non-ER binding) AK097370|ILMN\_1656801 (non-ER binding) [<=60] p = 0.4301 No detectable trend: [<=60] p = 0.4758No detectable trend: 16 16 [>60] p = 0.018416 [>60] p = 0.018134 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.013055[AII] p = 0.023584 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 4: N = 344 iClust 3: N = 294 AK097370|ILMN\_1656801 (non-ER binding) AK097370|ILMN\_1656801 (non-ER binding) [<=60] p = 0.90129[<=60] p = 0.10233No detectable trend: No detectable trend: 16 16 [>60] p = 0.37987|FC|<4 or adjPval>0.01 [>60] p = 0.067556|FC|<4 or adjPval>0.01 [AII] p = 0.35156[All] p = 0.335984 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 5: N = 191 iClust 6: N = 86 AK097370|ILMN\_1656801 (non-ER binding) AK097370|ILMN\_1656801 (non-ER binding) [<=60] p = 0.08161No detectable trend: [<=60] p = 0.70487No detectable trend: 16 16 [>60] p = 0.20354[>60] p = 0.45238 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.00272[AII] p = 0.00357494 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ω 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 AK097370|ILMN\_1656801 (non-ER binding) AK097370|ILMN\_1656801 (non-ER binding) [<=60] p = 0.0079468[<=60] p = 0.82251No detectable trend: No detectable trend: 16 16 [>60] p = 0.16203 |FC|<4 or adjPval>0.01 [>60] p = 0.015208 |FC|<4 or adjPval>0.01 [AII] p = 0.12001[AII] p = 2.5501e-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 AK097370|ILMN\_1656801 (non-ER binding)

iClust 10: N = 226 AK097370|ILMN\_1656801 (non-ER binding)

