iClust 1: N = 140 iClust 2: N = 72 p21|ILMN\_1784602 (non-ER binding) p21|ILMN\_1784602 (non-ER binding) [<=60] p = 0.8583No detectable trend: [<=60] p = 0.41032No detectable trend: 16 16 [>60] p = 0.078113 [>60] p = 0.65774 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.73811[AII] p = 0.859554 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 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 p21|ILMN\_1784602 (non-ER binding) p21|ILMN\_1784602 (non-ER binding) [<=60] p = 0.73375No detectable trend: [<=60] p = 0.017543No detectable trend: 16 16 [>60] p = 0.36853|FC|<4 or adjPval>0.01 [>60] p = 0.78231 |FC|<4 or adjPval>0.01 [AII] p = 0.0087696[AII] p = 0.0888014 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 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 p21|ILMN\_1784602 (non-ER binding) p21|ILMN\_1784602 (non-ER binding) [<=60] p = 0.10066No detectable trend: [<=60] p = 0.72103No detectable trend: 16 16 [>60] p = 0.21512 [>60] p = 0.23603 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.03986[AII] p = 0.458844 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 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 p21|ILMN\_1784602 (non-ER binding) p21|ILMN\_1784602 (non-ER binding) [<=60] p = 0.44371 No detectable trend: [<=60] p = 0.74723No detectable trend: 16 16 [>60] p = 0.60542|FC|<4 or adjPval>0.01 [>60] p = 0.5249 |FC|<4 or adjPval>0.01 [AII] p = 0.30945[AII] p = 0.52044 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 19 ω ω 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis

iClust 9: N = 146 p21|ILMN\_1784602 (non-ER binding)

iClust 10: N = 226 p21|ILMN\_1784602 (non-ER binding)

