iClust 1: N = 140 iClust 2: N = 72 RING1A|ILMN\_1666399 (non-ER binding) RING1A|ILMN\_1666399 (non-ER binding) [<=60] p = 0.15818 No detectable trend: [<=60] p = 0.22783No detectable trend: 16 16 [>60] p = 0.63319 [>60] p = 0.14926|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.98999[AII] p = 0.000351214 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω  $\infty$ 9 9 20 40 60 80 20 40 60 80 100 100 Age at diagnosis Age at diagnosis iClust 3: N = 294 iClust 4: N = 344 RING1A|ILMN\_1666399 (non-ER binding) RING1A|ILMN\_1666399 (non-ER binding) [<=60] p = 0.5411No detectable trend: [<=60] p = 0.57719No detectable trend: 16 16 [>60] p = 0.6785[>60] p = 0.64192|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.59157[AII] p = 0.267424 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 RING1A|ILMN\_1666399 (non-ER binding) RING1A|ILMN\_1666399 (non-ER binding) [<=60] p = 0.041343No detectable trend: [<=60] p = 0.62088No detectable trend: 16 16 [>60] p = 0.37242[>60] p = 0.88146|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.73906[AII] p = 0.492424 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 10 ω ω 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 RING1A|ILMN\_1666399 (non-ER binding) RING1A|ILMN\_1666399 (non-ER binding) [<=60] p = 0.20351 No detectable trend: [<=60] p = 0.95888No detectable trend: 16 16 [>60] p = 0.21167 [>60] p = 0.048082 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.57574[AII] p = 0.0377724 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 RING1A|ILMN\_1666399 (non-ER binding)

iClust 10: N = 226 RING1A|ILMN\_1666399 (non-ER binding)

