iClust 1: N = 140 iClust 2: N = 72 HER3|ILMN\_1751346 (non-ER binding) HER3|ILMN\_1751346 (non-ER binding) [<=60] p = 0.40429No detectable trend: [<=60] p = 0.90396No detectable trend: 16 16 [>60] p = 0.034501 [>60] p = 0.29923 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.093215[AII] p = 0.171744 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 3: N = 294 iClust 4: N = 344 HER3|ILMN\_1751346 (non-ER binding) HER3|ILMN\_1751346 (non-ER binding) [<=60] p = 0.72061 No detectable trend: [<=60] p = 0.51008No detectable trend: 16 16 [>60] p = 0.51865|FC|<1.25 or adjPval>0.01 [>60] p = 0.0005451 |FC|<1.25 or adjPval>0.01 [AII] p = 0.039776[AII] p = 0.0458484 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 HER3|ILMN\_1751346 (non-ER binding) HER3|ILMN\_1751346 (non-ER binding) [<=60] p = 0.082356No detectable trend: [<=60] p = 0.80231No detectable trend: 16 16 [>60] p = 0.18511 [>60] p = 0.21631 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.0045032[AII] p = 0.995624 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 HER3|ILMN\_1751346 (non-ER binding) HER3|ILMN\_1751346 (non-ER binding) [<=60] p = 0.9947[<=60] p = 0.95104No detectable trend: No detectable trend: 16 16 [>60] p = 0.80711 |FC|<1.25 or adjPval>0.01 [>60] p = 0.90268|FC|<1.25 or adjPval>0.01 [AII] p = 0.38389[All] p = 0.116954 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 HER3|ILMN\_1751346 (non-ER binding)

iClust 10: N = 226 HER3|ILMN\_1751346 (non-ER binding)

