iClust 1: N = 140 iClust 2: N = 72 AKT1|ILMN\_2388507 (ER binding) AKT1|ILMN\_2388507 (ER binding) [<=60] p = 0.82246No detectable trend: [<=60] p = 0.86126No detectable trend: 16 16 [>60] p = 0.41079 [>60] p = 0.13913 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.96036[All] p = 0.198314 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 AKT1|ILMN\_2388507 (ER binding) AKT1|ILMN\_2388507 (ER binding) [<=60] p = 0.41623No detectable trend: [<=60] p = 0.83948No detectable trend: 16 16 [>60] p = 0.93622|FC|<4 or adjPval>0.01 [>60] p = 0.0034047 |FC|<4 or adjPval>0.01 [AII] p = 0.20245[AII] p = 0.441464 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 5: N = 191 iClust 6: N = 86 AKT1|ILMN\_2388507 (ER binding) AKT1|ILMN\_2388507 (ER binding) [<=60] p = 0.97428No detectable trend: [<=60] p = 0.14763No detectable trend: 16 16 [>60] p = 0.63481 [>60] p = 0.82873|FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.14368[AII] p = 0.343014 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 AKT1|ILMN\_2388507 (ER binding) AKT1|ILMN\_2388507 (ER binding) [<=60] p = 0.59694No detectable trend: [<=60] p = 0.97833No detectable trend: 16 16 [>60] p = 0.77231 |FC|<4 or adjPval>0.01 [>60] p = 0.50995 |FC|<4 or adjPval>0.01 [AII] p = 0.91675[AII] p = 0.742064 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 9: N = 146 AKT1|ILMN\_2388507 (ER binding)

iClust 10: N = 226 AKT1|ILMN\_2388507 (ER binding)

