iClust 1: N = 140 iClust 2: N = 72 AKT1|ILMN\_2410909 (ER binding) AKT1|ILMN\_2410909 (ER binding) [<=60] p = 0.93623No detectable trend: [<=60] p = 0.68296No detectable trend: 16 16 [>60] p = 0.39437[>60] p = 0.14379 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.69285[AII] p = 0.133734 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\_2410909 (ER binding) AKT1|ILMN\_2410909 (ER binding) [<=60] p = 0.4975No detectable trend: [<=60] p = 0.54937No detectable trend: 16 16 [>60] p = 0.6876[>60] p = 0.0022103 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.44773[AII] p = 0.414134 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 AKT1|ILMN\_2410909 (ER binding) AKT1|ILMN\_2410909 (ER binding) [<=60] p = 0.93279No detectable trend: [<=60] p = 0.12774No detectable trend: 16 16 [>60] p = 0.76049[>60] p = 0.66024|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.077515[AII] p = 0.416274 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 7: N = 193 iClust 8: N = 300 AKT1|ILMN\_2410909 (ER binding) AKT1|ILMN\_2410909 (ER binding) [<=60] p = 0.95154No detectable trend: [<=60] p = 0.62822No detectable trend: 16 16 [>60] p = 0.67999 [>60] p = 0.77456|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.89072[AII] p = 0.970124 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\_2410909 (ER binding)

iClust 10: N = 226 AKT1|ILMN\_2410909 (ER binding)

