iClust 1: N = 140 iClust 2: N = 72 KLK5|ILMN\_2353054 (non-ER binding) KLK5|ILMN\_2353054 (non-ER binding) [<=60] p = 0.29415No detectable trend: [<=60] p = 0.87303No detectable trend: 16 16 [>60] p = 0.16226 [>60] p = 0.052198 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.0027447[AII] p = 0.40374 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 4: N = 344 iClust 3: N = 294 KLK5|ILMN\_2353054 (non-ER binding) KLK5|ILMN\_2353054 (non-ER binding) [<=60] p = 0.82262No detectable trend: [<=60] p = 0.026232No detectable trend: 16 16 [>60] p = 0.029005|FC|<2 or adjPval>0.01 [>60] p = 0.015204 |FC|<2 or adjPval>0.01 [AII] p = 1.8581e - 06[AII] p = 0.000105834 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 KLK5|ILMN\_2353054 (non-ER binding) KLK5|ILMN\_2353054 (non-ER binding) [<=60] p = 0.3544No detectable trend: [<=60] p = 0.54No detectable trend: 16 16 [>60] p = 0.56788[>60] p = 0.93167 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.22118[AII] p = 0.202434 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 KLK5|ILMN\_2353054 (non-ER binding) KLK5|ILMN\_2353054 (non-ER binding) [<=60] p = 0.021275No detectable trend: [<=60] p = 0.0019768No detectable trend: 16 16 [>60] p = 0.98463|FC|<2 or adjPval>0.01 [>60] p = 0.00028547 |FC|<2 or adjPval>0.01 [AII] p = 0.011575[All] p = 1.3213e-124 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 KLK5|ILMN\_2353054 (non-ER binding)

iClust 10: N = 226 KLK5|ILMN\_2353054 (non-ER binding)



