iClust 1: N = 140 iClust 2: N = 72 HPGD|ILMN_2166457 (non-ER binding) HPGD|ILMN_2166457 (non-ER binding) [<=60] p = 0.77272 No detectable trend: [<=60] p = 0.45076No detectable trend: 16 16 [>60] p = 0.53393|FC|<1.25 or adjPval>0.01 [>60] p = 0.055339|FC|<1.25 or adjPval>0.01 [AII] p = 0.915[AII] p = 0.0243074 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ω 9 9 20 20 40 60 80 100 40 60 80 100 Age at diagnosis Age at diagnosis iClust 3: N = 294 iClust 4: N = 344 HPGD|ILMN_2166457 (non-ER binding) HPGD|ILMN_2166457 (non-ER binding) [<=60] p = 0.56358No detectable trend: [<=60] p = 0.38688No detectable trend: 16 16 [>60] p = 0.028164 |FC|<1.25 or adjPval>0.01 [>60] p = 0.14016 |FC|<1.25 or adjPval>0.01 [AII] p = 3.8099e - 05[AII] p = 0.602264 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 HPGD|ILMN_2166457 (non-ER binding) HPGD|ILMN_2166457 (non-ER binding) [<=60] p = 0.0082124 No detectable trend: [<=60] p = 0.7607No detectable trend: 16 16 [>60] p = 0.91942 |FC|<1.25 or adjPval>0.01 [>60] p = 0.67175 |FC|<1.25 or adjPval>0.01 [AII] p = 0.0075615[AII] p = 0.155444 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 HPGD|ILMN_2166457 (non-ER binding) HPGD|ILMN_2166457 (non-ER binding) [<=60] p = 0.058623[<=60] p = 0.39655No detectable trend: No detectable trend: 16 16 [>60] p = 0.22064|FC|<1.25 or adjPval>0.01 [>60] p = 0.1566|FC|<1.25 or adjPval>0.01 [AII] p = 2.6983e - 09[AII] p = 0.00504384 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 HPGD|ILMN_2166457 (non-ER binding)

iClust 10: N = 226 HPGD|ILMN_2166457 (non-ER binding)

