iClust 1: N = 140 iClust 2: N = 72 XRCC3|ILMN\_1696266 (non-ER binding) XRCC3|ILMN\_1696266 (non-ER binding) [<=60] p = 0.8924No detectable trend: [<=60] p = 0.093525No detectable trend: 16 16 [>60] p = 0.27152 [>60] p = 0.70795 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.43423[AII] p = 0.224194 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 XRCC3|ILMN\_1696266 (non-ER binding) XRCC3|ILMN\_1696266 (non-ER binding) [<=60] p = 0.35712No detectable trend: [<=60] p = 0.20648No detectable trend: 16 16 [>60] p = 0.39923 |FC|<1.25 or adjPval>0.01 [>60] p = 0.99334|FC|<1.25 or adjPval>0.01 [AII] p = 0.68566[AII] p = 0.0230724 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 XRCC3|ILMN\_1696266 (non-ER binding) XRCC3|ILMN\_1696266 (non-ER binding) [<=60] p = 0.97649No detectable trend: [<=60] p = 0.55185No detectable trend: 16 16 [>60] p = 0.31325 [>60] p = 0.50167 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.18337[AII] p = 0.19014 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ω 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 XRCC3|ILMN\_1696266 (non-ER binding) XRCC3|ILMN\_1696266 (non-ER binding) [<=60] p = 0.55864No detectable trend: [<=60] p = 0.079333No detectable trend: 16 16 [>60] p = 0.79327|FC|<1.25 or adjPval>0.01 [>60] p = 0.10898 |FC|<1.25 or adjPval>0.01 [AII] p = 0.87306[All] p = 0.564234 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 XRCC3|ILMN\_1696266 (non-ER binding)

iClust 10: N = 226 XRCC3|ILMN\_1696266 (non-ER binding)

