iClust 1: N = 140 iClust 2: N = 72 RAD51|ILMN_2257432 (non-ER binding) RAD51|ILMN_2257432 (non-ER binding) [<=60] p = 0.38157 No detectable trend: [<=60] p = 0.59675No detectable trend: 16 16 [>60] p = 0.92153[>60] p = 0.42946|FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.76485[AII] p = 0.905614 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 RAD51|ILMN_2257432 (non-ER binding) RAD51|ILMN_2257432 (non-ER binding) [<=60] p = 0.061332No detectable trend: [<=60] p = 0.36718No detectable trend: 16 16 [>60] p = 0.53864|FC|<2 or adjPval>0.01 [>60] p = 0.34424|FC|<2 or adjPval>0.01 [All] p = 0.24915[All] p = 0.761434 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 RAD51|ILMN_2257432 (non-ER binding) RAD51|ILMN_2257432 (non-ER binding) [<=60] p = 0.14362No detectable trend: [<=60] p = 0.60256No detectable trend: 16 16 [>60] p = 0.087623 [>60] p = 0.26727 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.10646[AII] p = 0.605384 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 RAD51|ILMN_2257432 (non-ER binding) RAD51|ILMN_2257432 (non-ER binding) [<=60] p = 0.53844[<=60] p = 0.68664No detectable trend: No detectable trend: 16 16 [>60] p = 0.75102 |FC|<2 or adjPval>0.01 [>60] p = 0.12512 |FC|<2 or adjPval>0.01 [AII] p = 0.90741[AII] p = 0.380074 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 RAD51|ILMN_2257432 (non-ER binding)

iClust 10: N = 226 RAD51|ILMN_2257432 (non-ER binding)

