iClust 1: N = 140 iClust 2: N = 72 ITPKA|ILMN_1776516 (non-ER binding) ITPKA|ILMN_1776516 (non-ER binding) [<=60] p = 0.99775No detectable trend: [<=60] p = 0.78209No detectable trend: 16 16 [>60] p = 0.044526 [>60] p = 0.73917 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.01852[AII] p = 0.291644 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 ITPKA|ILMN_1776516 (non-ER binding) ITPKA|ILMN_1776516 (non-ER binding) [<=60] p = 0.00091314 No detectable trend: [<=60] p = 0.29189No detectable trend: 16 16 [>60] p = 0.097303|FC|<1.25 or adjPval>0.01 [>60] p = 0.20716 |FC|<1.25 or adjPval>0.01 [AII] p = 2.5047e - 09[All] p = 0.00211554 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 ITPKA|ILMN_1776516 (non-ER binding) ITPKA|ILMN_1776516 (non-ER binding) [<=60] p = 0.98162No detectable trend: [<=60] p = 0.088598No detectable trend: 16 16 [>60] p = 0.11826 [>60] p = 0.57125 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.01196[AII] p = 0.464514 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 ITPKA|ILMN_1776516 (non-ER binding) ITPKA|ILMN_1776516 (non-ER binding) [<=60] p = 0.17337 [<=60] p = 0.0022565No detectable trend: No detectable trend: 16 16 [>60] p = 0.85795|FC|<1.25 or adjPval>0.01 [>60] p = 0.53239 |FC|<1.25 or adjPval>0.01 [All] p = 0.034615[AII] p = 7.025e-054 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 ITPKA|ILMN_1776516 (non-ER binding)

iClust 10: N = 226 ITPKA|ILMN_1776516 (non-ER binding)

