ARID1A|ILMN_1734496 ARID1A|ILMN_1734496 NKI Tier 1: ER binding; Tier 2: ER binding NKI Tier 1: ER binding; Tier 2: ER binding [<=60] p = 0.90571No detectable trend: [<=60] p = 0.29122No detectable trend: 16 16 [>60] p = 0.033451[>60] p = 0.75517 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.75091[AII] p = 0.0365994 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ∞ 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis PAM50 Her2: N = 240**PAM50** Basal: **N** = 331 ARID1A|ILMN_1734496 ARID1A|ILMN_1734496 NKI Tier 1: ER binding; Tier 2: ER binding NKI Tier 1: ER binding; Tier 2: ER binding [<=60] p = 0.76019[<=60] p = 0.41922No detectable trend: No detectable trend: 16 16 [>60] p = 0.70125 [>60] p = 0.91337 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.83046[AII] p = 0.81764 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ∞

9

20

40

60

Age at diagnosis

80

100

PAM50 LumB: N = 492

PAM50 LumA: N = 721

9

20

40

60

Age at diagnosis

80

100

PAM50 Normal: N = 202 ARID1A|ILMN_1734496

NKI Tier 1: ER binding; Tier 2: ER binding

