**PAM50 LumA: N = 721 PAM50 LumB: N = 492** ATM|ILMN\_1713630 ATM|ILMN\_1713630 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.62963[<=60] p = 0.41471No detectable trend: No detectable trend: 16 16 [>60] p = 0.34337|FC|<1.25 or adjPval>0.01 [>60] p = 0.44755 |FC|<1.25 or adjPval>0.01 [AII] p = 0.91547[AII] p = 0.634044 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 PAM50 Her2: N = 240 **PAM50 Basal: N = 331** ATM|ILMN\_1713630 ATM|ILMN\_1713630 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.97205[<=60] p = 0.15634No detectable trend: No detectable trend: 16 16 [>60] p = 0.98813[>60] p = 0.65665|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.43115[AII] p = 0.8954 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ω 9 9

20

40

60

Age at diagnosis

80

100

20

40

60

Age at diagnosis

80

100

PAM50 Normal: N = 202 ATM|ILMN\_1713630

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

