PAM50 LumA: N = 721 PAM50 LumB: N = 492 ATM|ILMN_1716231 ATM|ILMN_1716231 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.16942[<=60] p = 0.56932No detectable trend: No detectable trend: 16 16 [>60] p = 0.54345[>60] p = 0.35745|FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.50969[All] p = 0.252394 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** ATM|ILMN_1716231 ATM|ILMN_1716231 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.58066No detectable trend: [<=60] p = 0.22247No detectable trend: 16 16 [>60] p = 0.79214[>60] p = 0.60214 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.37158[All] p = 0.883164 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10

 ∞

9

20

40

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Age at diagnosis

80

100

ω

9

20

40

60

Age at diagnosis

80

100

PAM50 Normal: N = 202 ATM|ILMN_1716231

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

