**PAM50 LumA: N = 721 PAM50 LumB: N = 492** p57KIP2|ILMN\_1718565 p57KIP2|ILMN\_1718565 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.060786No detectable trend: [<=60] p = 0.20849No detectable trend: 16 16 [>60] p = 0.17862 [>60] p = 0.7023|FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 4.0725e - 11[AII] p = 0.00334544 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω  $\infty$ 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 p57KIP2|ILMN\_1718565 p57KIP2|ILMN\_1718565 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.053093No detectable trend: [<=60] p = 0.28165No detectable trend: 16 16 [>60] p = 0.01001 |FC|<2 or adjPval>0.01 [>60] p = 0.75723 |FC|<2 or adjPval>0.01 [AII] p = 0.0049036[AII] p = 0.170674 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10  $\infty$  $\infty$ 9 9

20

40

80

60

Age at diagnosis

100

20

40

60

Age at diagnosis

80

100

PAM50 Normal: N = 202 p57KIP2|ILMN\_1718565

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

