**PAM50 LumA: N = 721 PAM50 LumB: N = 492** NOTCH2|ILMN\_1777845 NOTCH2|ILMN\_1777845 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.55021No detectable trend: [<=60] p = 0.7796No detectable trend: 16 16 [>60] p = 0.79525 |FC|<4 or adjPval>0.01 [>60] p = 0.50131 |FC|<4 or adjPval>0.01 [AII] p = 0.35327[AII] p = 0.858624 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 NOTCH2|ILMN\_1777845 NOTCH2|ILMN\_1777845 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.46124No detectable trend: [<=60] p = 0.069157No detectable trend: 16 16 [>60] p = 0.3094|FC|<4 or adjPval>0.01 [>60] p = 0.35216 |FC|<4 or adjPval>0.01 [AII] p = 0.91908[AII] p = 0.317044 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10

 $\infty$ 

9

20

40

60

Age at diagnosis

80

100

ω

9

20

40

60

Age at diagnosis

80

100

PAM50 Normal: N = 202 NOTCH2|ILMN\_1777845

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

