**PAM50 LumA: N = 721 PAM50 LumB: N = 492** GATA4|ILMN\_1749866 GATA4|ILMN\_1749866 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.25093No detectable trend: [<=60] p = 0.10414No detectable trend: 16 16 [>60] p = 0.13246 [>60] p = 0.52909 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.019711[AII] p = 0.503314 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** GATA4|ILMN\_1749866 GATA4|ILMN\_1749866 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.74441No detectable trend: [<=60] p = 0.87126No detectable trend: 16 16 [>60] p = 0.32105[>60] p = 0.65768|FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.54073[All] p = 0.514144 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω  $\infty$ 9 9

20

40

60

Age at diagnosis

80

100

20

40

60

Age at diagnosis

80

100

PAM50 Normal: N = 202 GATA4|ILMN\_1749866

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

