**PAM50 LumB: N = 492 PAM50 LumA: N = 721** ARID1B|ILMN\_1699967 ARID1B|ILMN\_1699967 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.55422No detectable trend: [<=60] p = 0.010947No detectable trend: 16 16 [>60] p = 0.15215 [>60] p = 0.73375|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.096238[AII] p = 0.602494 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 Basal: N = 331** PAM50 Her2: N = 240ARID1B|ILMN\_1699967 ARID1B|ILMN\_1699967 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.12781No detectable trend: [<=60] p = 0.37954No detectable trend: 16 16 [>60] p = 0.5158 |FC|<1.25 or adjPval>0.01 [>60] p = 0.94804 |FC|<1.25 or adjPval>0.01 [All] p = 0.16685[All] p = 0.328164 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 ARID1B|ILMN\_1699967

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

