**PAM50 LumA: N = 721 PAM50 LumB: N = 492** ARID1B|ILMN\_1660433 ARID1B|ILMN\_1660433 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.12356No detectable trend: [<=60] p = 0.45719No detectable trend: 16 16 [>60] p = 0.42796[>60] p = 0.62516 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.10698[All] p = 0.951754 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 ARID1B|ILMN\_1660433 ARID1B|ILMN\_1660433 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.45944No detectable trend: [<=60] p = 0.55681No detectable trend: 16 16 [>60] p = 0.84942|FC|<1.25 or adjPval>0.01 [>60] p = 0.054459 |FC|<1.25 or adjPval>0.01 [All] p = 0.78521[AII] p = 0.628414 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 Normal: N = 202 ARID1B|ILMN\_1660433

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

