PAM50 LumA: N = 721 PAM50 LumB: N = 492 SCMH1|ILMN_2276504 SCMH1|ILMN_2276504 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.26341 No detectable trend: [<=60] p = 0.56425No detectable trend: 16 16 [>60] p = 0.0053587 [>60] p = 0.09146|FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.3374[AII] p = 0.327014 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ∞ 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 SCMH1|ILMN_2276504 SCMH1|ILMN_2276504 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.53133[<=60] p = 0.22533No detectable trend: No detectable trend: 16 16 [>60] p = 0.33717 [>60] p = 0.52265 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.050184[AII] p = 0.895264 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ∞ 9 9

20

40

60

Age at diagnosis

80

100

20

40

60

Age at diagnosis

80

100

PAM50 Normal: N = 202 SCMH1|ILMN_2276504

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

