PAM50 LumA: N = 721 PAM50 LumB: N = 492HIF3alpha|ILMN_1687481 HIF3alpha|ILMN_1687481 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.82817[<=60] p = 0.0008982No detectable trend: No detectable trend: 16 16 [>60] p = 0.0067584 [>60] p = 0.91562 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 5.4843e - 05[AII] p = 0.342234 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω 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** HIF3alpha|ILMN_1687481 HIF3alpha|ILMN_1687481 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.75683No detectable trend: [<=60] p = 0.56463No detectable trend: 16 16 [>60] p = 0.24591 [>60] p = 0.39018|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.77328[AII] p = 0.873714 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ω

9

20

40

60

Age at diagnosis

80

100

9

20

40

60

Age at diagnosis

80

100

PAM50 Normal: N = 202 HIF3alpha|ILMN_1687481

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

