PAM50 LumA: N = 721 PAM50 LumB: N = 492 DPY19L1|ILMN_1791296 DPY19L1|ILMN_1791296 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.077225 No detectable trend: [<=60] p = 0.001606No detectable trend: 16 16 [>60] p = 0.0022041 [>60] p = 0.60913|FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 4.4211e - 19[AII] p = 1.8494e - 064 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 DPY19L1|ILMN_1791296 DPY19L1|ILMN_1791296 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.94166No detectable trend: [<=60] p = 0.034936No detectable trend: 16 9 [>60] p = 0.356[>60] p = 0.20533 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.351[All] p = 0.712254 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 DPY19L1|ILMN_1791296

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

