iClust 1: N = 140 iClust 2: N = 72 CXCL12|ILMN_1791447 (ER binding) CXCL12|ILMN_1791447 (ER binding) [<=60] p = 0.37971 No detectable trend: [<=60] p = 0.39012No detectable trend: 16 16 [>60] p = 0.30781[>60] p = 0.78773|FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.00015064[AII] p = 0.387824 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 iClust 3: N = 294 iClust 4: N = 344 CXCL12|ILMN_1791447 (ER binding) CXCL12|ILMN_1791447 (ER binding) [<=60] p = 0.20571 No detectable trend: [<=60] p = 0.47919No detectable trend: 16 16 [>60] p = 0.24734|FC|<4 or adjPval>0.01 [>60] p = 0.00089405 |FC|<4 or adjPval>0.01 [AII] p = 1.469e - 07[AII] p = 3.8831e-064 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 10 ω ω 9 9 20 40 60 80 100 20 40 60 80 100

Age at diagnosis

Age at diagnosis

iClust 5: N = 191 iClust 6: N = 86 CXCL12|ILMN_1791447 (ER binding) CXCL12|ILMN_1791447 (ER binding) [<=60] p = 0.85512No detectable trend: [<=60] p = 0.82297No detectable trend: 16 16 [>60] p = 0.21326 [>60] p = 0.95583|FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.6166[AII] p = 0.0121224 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 19 10 ω ω 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis iClust 7: N = 193 iClust 8: N = 300 CXCL12|ILMN_1791447 (ER binding) CXCL12|ILMN_1791447 (ER binding) [<=60] p = 0.2356No detectable trend: [<=60] p = 0.044047No detectable trend: 16 16 [>60] p = 0.9517 |FC|<4 or adjPval>0.01 [>60] p = 0.11452 |FC|<4 or adjPval>0.01 [AII] p = 0.12987[AII] p = 4.6885e - 054 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

iClust 9: N = 146 CXCL12|ILMN_1791447 (ER binding)

iClust 10: N = 226 CXCL12|ILMN_1791447 (ER binding)

