**IPMN Specimens** clusterColon (x-axis) clusterLn (y-axis) IGHG1 IGHG2 FDCSP MS4A1 IGHG3 CD52 LCP1 CXCL13 LTB PTPRC CD79A IGHG4 FCRL1 MMP9 IGKC -TRBC1 SELL CD37 H4C6 NIBAN3 IGLL5 CR2 5 RIPOR2 IRAG2 **JCHAIN DE Genes** xdn\_ydn IGHA1 xdn\_yno log2fc\_clusterLn xdn\_yup xno\_ydn CLU TUBB2B MYH11 xno\_yno SERPINA3 FABP1 xno\_yup CHN1 ER GPA33 xup\_ydn COL3A1 MPP6 • A CA1 ZG16 xup\_yno SCRN1 UGT2B15 **Q** € CEACAM5 xup\_yup LGÀLS3 PHGR1 MUC2 FF3 FCGBP LGALS4 MUC13 APLP1 AGR2 FXYD3 **UCHL PIGR** TSPAN8 SNAP25 CPE PFN2 SPP1 ADGRG1 SORBS2 -5 RAP1GAP NCKAP1 PCSK1N 10 -5 log2fc\_clusterColon