cnidocyte q0.9-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 948 (47.3% 948 (46.6% ARCH438_Spdef 816 (40.7%) 816 (40.0%) ARCH647_Smad2/Smad3_Smad9/S... 567 (28.3%) 567 (27.4%) ARCH895_Foxn4/Foxn1 539 (26.1%) ARCH1408_GATA20-539 (26.9%) 526 (26.3%) 526 (25.0%) ARCH530_Snai2 472 (23.6%) 472 (22.3%) ARCH867_ZEB1__PL0011.1_hlh-... 465 (23.2%) 465 (23.9%) ARCH483_Tbx3/Tbx2 409 (18.6%) 409 (20.4%) ARCH56_POU4F1 311 (15.5%) 311 (13.2%) ARCH178_Foxc2/Foxc1_Foxg1/G... motif 293 (15.2%) 293 (14.6%) ARCH1169_/Sox4/Sox11_Sox13/... 288 (14.4%) 288 (15.1%) ARCH1627_Xbp1 280 (14.0%) 280 (14.5%) ARCH1102_Foxa3/Foxa1/Foxa2_.. 255 (13.1%) 255 (12.7%) ARCH861_Scrt2/Scrt1 251 (11.7%) 251 (12.5%) ARCH1265_TFCP2__Tcfcp2l1__G.. 241 (12.0%) 241 (12.8%) FoxQ2d ARCH1475_GATA15 236 (11.8%) 236 (11.5%) ARCH1177_/Sox4/Sox11_Sox13/... 227 (11.3%) 227 (11.4%) 210 (10.5%) 210 (11.2%) ARCH1138_/Sox4/Sox11_Sox13/... 210 (10.3%) 210 (10.5%) ARCH487_Meis3/Meis2/Meis1_P... ARCH647_Smad2/Smad3_Smad9/S... + 392 (18.7%) 392 (19.6%) ARCH438_Spdef ARCH438_Spdef + 270 (13.5%) 270 (12.4%) ARCH895 Foxn4/Foxn1 ARCH438_Spdef + 260 (13.0%) 260 (12.1%) ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 241 (12.0%) 241 (11.3%) ARCH895 Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S... + 233 (11.6%) 233 (10.5%) ARCH1408_GATA20 ARCH438_Spdef + 224 (11.2%) 224 (10.6%) ARCH530_Snai2 ARCH438_Spdef + 224 (11.2%) 224 (10.5%) ARCH867_ZEB1__PL0011.1_hlh-.. ARCH438_Spdef + 215 (10.7%) 215 (10.7%) ARCH483_Tbx3/Tbx2 ARCH438_Spdef + 191 (8.8%) 191 (9.5%) ARCH56_POU4F1 ARCH647 Smad2/Smad3 Smad9/S... + 189 (9.4%) 189 (8.8%) ARCH867_ZEB1__PL0011.1_hlh-.. ARCH647_Smad2/Smad3_Smad9/S... + 186 (9.3%) 186 (9.3%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 185 (9.2%) 185 (9.0%) ARCH530_Snai2 ARCH647_Smad2/Smad3_Smad9/S... + 163 (8.1%) 163 (7.1%) ARCH56_POU4F1 ARCH530_Snai2 + 152 (7.6%) 152 (6.7%) ARCH895_Foxn4/Foxn1 ARCH438_Spdef + 147 (7.3%) 147 (6.6%) ARCH178_Foxc2/Foxc1_Foxg1/G. ARCH895_Foxn4/Foxn1 + 145 (6.7%) 145 (7.2%) ARCH867_ZEB1__PL0011.1_hlh-... ARCH895_Foxn4/Foxn1 + 143 (7.1%) 143 (6.5%) ARCH1408_GATA20 ARCH530_Snai2 + 141 (7.0%) 141 (6.6%) ARCH1408_GATA20 ARCH438_Spdef + 138 (6.9%) 138 (6.9%) ARCH1102_Foxa3/Foxa1/Foxa2_. ARCH438_Spdef + 137 (6.8%) 137 (7.0%) ARCH1627_Xbp1 ARCH483_Tbx3/Tbx2 + 132 (6.1%) 132 (6.6%) ARCH895_Foxn4/Foxn1 ARCH530_Snai2 + 130 (6.5%) 130 (6.8%) ARCH483_Tbx3/Tbx2 ARCH483_Tbx3/Tbx2 + 128 (6.4%) 128 (6.4%) ARCH1408_GATA20 ARCH438_Spdef + 127 (6.3%) 127 (6.8%) ARCH861_Scrt2/Scrt1 ARCH647 Smad2/Smad3 Smad9/S...+ 125 (6.2%) 125 (5.3%) ARCH178_Foxc2/Foxc1_Foxg1/G... ARCH647 Smad2/Smad3 Smad9/S... + 122 (6.1%) 122 (6.5%) ARCH1627 Xbp1 2 ARCH438_Spdef + 120 (6.0%) 120 (6.4%) mot ARCH1169 /Sox4/Sox11 Sox13/... ARCH438_Spdef + 119 (5.9%) 119 (5.4%) ARCH1265_TFCP2__Tcfcp2l1__G.. ARCH1408_GATA20 + 118 (5.9%) 118 (5.4%) ARCH867_ZEB1__PL0011.1_hlh-... ARCH647_Smad2/Smad3_Smad9/S... + 117 (6.0%) 117 (5.8%) ARCH1102_Foxa3/Foxa1/Foxa2_.. ARCH1177_/Sox4/Sox11_Sox13/... + 116 (5.8%) 116 (5.7%) ARCH438_Spdef ARCH56 POU4F1 + 116 (5.8%) 116 (5.7%) ARCH895_Foxn4/Foxn1 ARCH438_Spdef + 114 (5.7%) 114 (5.5%) FoxQ2d ARCH647 Smad2/Smad3 Smad9/S... + 111 (5.5%) 111 (5.8%) ARCH1169 /Sox4/Sox11 Sox13/... ARCH647 Smad2/Smad3 Smad9/S... + 105 (5.2%) 105 (5.2%) ARCH861 Scrt2/Scrt1 ARCH438_Spdef + 105 (5.2%) 105 (5.0%) ARCH1475_GATA15 ARCH647_Smad2/Smad3_Smad9/S... + 103 (5.1%) 103 (5.1%) FoxQ2d ARCH56_POU4F1 + 102 (4.4%) 102 (5.1%) ARCH1408_GATA20 ARCH483_Tbx3/Tbx2 + 100 (5.0%) 100 (4.9%) ARCH867_ZEB1__PL0011.1_hlh-... ARCH647_Smad2/Smad3_Smad9/S... + 99 (4.9%) 99 (4.6%) ARCH1265_TFCP2__Tcfcp2l1__G... ARCH438_Spdef + 99 (4.9%) 99 (4.8%) ARCH1138_/Sox4/Sox11_Sox13/... ARCH56 POU4F1 + 98 (4.9%) 98 (4.4%) ARCH867_ZEB1__PL0011.1_hlh-... ARCH647 Smad2/Smad3 Smad9/S... + 97 (4.8%) 97 (4.5%) ARCH1475_GATA15 ARCH530_Snai2 + 97 (4.4%) 97 (4.8%) ARCH867_ZEB1__PL0011.1_hlh-... ARCH178_Foxc2/Foxc1_Foxg1/G... + 96 (4.8%) 96 (3.9%) ARCH895_Foxn4/Foxn1 ARCH530_Snai2 + 91 (4.5%) 91 (3.9%) ARCH56_POU4F1 ARCH1177 /Sox4/Sox11 Sox13/... + 90 (4.5%) 90 (4.7%) ARCH647_Smad2/Smad3_Smad9/S... ARCH438_Spdef + 89 (4.4%) 89 (4.3%) ARCH487_Meis3/Meis2/Meis1_P. ARCH178_Foxc2/Foxc1_Foxg1/G... + 89 (3.7%) 89 (4.4%) ARCH530_Snai2 ARCH530_Snai2 + 89 (4.8%) 89 (4.4%) ARCH1169_/Sox4/Sox11_Sox13/... ARCH1627_Xbp1 + 88 (4.4%) 88 (4.6%) ARCH895_Foxn4/Foxn1 ARCH1627_Xbp1 + 86 (4.2%) 86 (4.3%) ARCH1408 GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 85 (4.2%) 85 (4.0%) ARCH487_Meis3/Meis2/Meis1_P... ARCH895_Foxn4/Foxn1 + 85 (4.2%) 85 (4.1%) ARCH1102_Foxa3/Foxa1/Foxa2_.. ARCH647_Smad2/Smad3_Smad9/S... + 127 (6.3%) 127 (5.6%) ARCH438_Spdef + ARCH647_SmadleRSH&BS_50x0d9FSxn1 113 (4.8%) 113 (5.6%) ARCH438_Spdef + ယ ARCH647_Smad2/SARSOH11508ac9/SA2Q motifs 98 (4.9%) 98 (4.5%) ARCH438_Spdef + ARCHR941891/ma7521891ma8180911f1at191/191...+ 86 (4.3%) 86 (4.3%) ARCH438_Spdef + ARCH647_Smad2/SRGdd48SmTaxs/Sbx2 82 (4.1%) 82 (3.8%) ARCH438_Spdef + ARCH530_Snai2 20 30 50 0 10 20 30 40 10 40 50 % of peaks

cnidocyte q0.95-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 539 (26.9% 539 (26.1% ARCH860_E2A__esg 485 (24.2%) 485 (24.5%) ARCH438_Spdef 444 (22.4%) 444 (22.2%) ARCH647_Smad2/Smad3_Smad9/S... motif 315 (14.2%) 315 (15.7%) ARCH895_Foxn4/Foxn1 306 (15.3%) 306 (13.3%) ARCH56_POU4F1 304 (14.5%) 304 (15.2%) ARCH1408_GATA20 269 (13.4%) 269 (13.9%) ARCH483_Tbx3/Tbx2 ARCH860_E2A__esg + 129 (6.4%) 129 (6.6%) ARCH438_Spdef ARCH647_Smad2/Smad3_Smad9/S... + 118 (5.9%) 118 (6.7%) ARCH438_Spdef ARCH860_E2A__esg + 112 (6.0%) 112 (5.6%) ARCH647_Smad2/Smad3_Smad9/S... ARCH1408_GATA20 + 91 (4.5%) 91 (4.5%) ARCH438_Spdef ARCH647_Smad2/Smad3_Smad9/S... + 86 (3.9%) 86 (4.3%) ARCH895_Foxn4/Foxn1 ARCH860_E2A__esg + 83 (4.1%) 83 (3.3%) ARCH895_Foxn4/Foxn1 ARCH860_E2A__esg + 79 (3.9%) 79 (3.5%) ARCH1408_GATA20 ARCH438_Spdef + 79 (3.9%) 79 (3.4%) ARCH56_POU4F1 ARCH438_Spdef + 74 (3.7%) 74 (3.5%) ARCH895_Foxn4/Foxn1 ARCH860_E2A__esg + 72 (3.5%) 72 (3.6%) 2 motifs ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 71 (3.4%) 71 (3.5%) ARCH1408_GATA20 ARCH438_Spdef + 70 (3.8%) 70 (3.5%) ARCH483_Tbx3/Tbx2 ARCH860_E2A__esg + 68 (3.0%) 68 (3.4%) ARCH56_POU4F1 ARCH647_Smad2/Smad3_Smad9/S... + 67 (3.3%) 67 (3.3%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 65 (3.2%) 65 (2.9%) ARCH56_POU4F1 ARCH895_Foxn4/Foxn1 + 56 (2.8%) 56 (2.8%) ARCH56_POU4F1 ARCH1408_GATA20 + 46 (1.8%) 46 (2.3%) ARCH56_POU4F1 ARCH483_Tbx3/Tbx2 + 41 (2.0%) 41 (2.0%) ARCH895_Foxn4/Foxn1 ARCH1408_GATA20 + 37 (1.8%) 37 (1.8%) ARCH483_Tbx3/Tbx2 ARCH483 Tbx3/Tbx2 + 32 (1.6%) 32 (1.1%) ARCH56_POU4F1 ARCH1408_GATA20 + 31 (1.5%) 31 (1.2%) ARCH895 Foxn4/Foxn1 ARCH860_E2A__esg + 26 (1.3%) 26 (1.8%) ARCH647_Smad2/Smad3_Smad9/S... + ARCH&&CELLA8_Specif 23 (0.9%) ARCH1408_GATA20 + 23 (1.1%) ARCH647_Smad2/Smad8@H4389&pdef 23 (1.3%) 23 (1.1%) ARCH1408_GATA20 + ARCH860CE2A8_Seget 22 (1.0%) 22 (1.1%) ARCH647_Smad2/Smad3_Smad9/S... + ARCH8850_FE0XA4/FE8611 22 (1.1%) 22 (0.8%) ARCH438_Spdef + ARCABOHEOAPOLSTI 20 (1.2%) ARCH438_Spdef + 20 (1.0%) ARCH647_Smad2/SRGdd988mTaxs/Sbx2 ARCH438_Spdef + 20 (1.0%) 20 (1.3%) ARBABBBBBEZAX3FBBX2 ARCH438_Spdef + 19 (0.9%) 19 (0.7%) ARCH647_Smad27SH2895_5PX9149FSXn1 ARCH438_Spdef + 19 (0.9%) 19 (1.2%) ANRCH18850_FEDXA4/FEBYG14 17 (0.8%) 17 (0.9%) ARCH647_Smad2/Smad3_Smad9/S... + ARBABBBBBBEZAX3ABBX2 ARCH647_Smad2/Smad3_Smad9/S... + 16 (0.8%) 16 (0.6%) ARCH647_Smad2/SARSOH 1508ac9/SA2Q 16 (0.7%) ARCH438_Spdef + 16 (0.8%) ARCH498_PSHd&F1 ARCH895_Foxn4/Foxn1 + 16 (0.8%) 16 (0.8%) ARCH647_Smad2/Smarks H56aR9/194.F1 15 (0.7%) 15 (0.6%) ARCH895_Foxn4/Foxn1 + ARCH647_Smad2/Smad9/84.F1 14 (0.7%) 14 (0.7%) ARCH1408_GATA20 + AFRICHHUMBE TOWAFATON 2 14 (0.7%) 14 (0.8%) ARCH438_Spdef + ARBABBBBBEZAX3FBBX2 ω 13 (0.6%) 13 (0.6%) ARCH895_Foxn4/Foxn1 + ARCHRQID56CAPAL20F1 13 (0.7%) 13 (0.6%) ARCH438_Spdef + ARCABOHEOAPOLYF1 ARCH1408_GATA20 + 12 (0.6%) 12 (0.5%) ARCH647_Smad2/SRGdd388mTax9/5bx2 ARCH483_Tbx3/Tbx2 + 12 (0.6%) 12 (0.6%) ARCH8850_FE0XA4/Fe8611 10 (0.5%) ARCH647_Smad2/Smad3_Smad9/S... + 10 (0.5%) ARCABOHEQAPOLYF1 ARCH1408_GATA20 + 10 (0.5%) 10 (0.5%) ARCHBOHEOAPOLSET1 ARCH483_Tbx3/Tbx2 + 10 (0.5%) 10 (0.6%) ARCH&95HF98n4/F08f1 ARCH483_Tbx3/Tbx2 + 9 (0.4%) 9 (0.4%) ARCH647_Smad2RSHAG95_50x019F9x01 ARCH1408_GATA20 + 8 (0.4%) 8 (0.3%) ARCH647_Smad2RSHA895_5AXA49F9X.P.1 8 (0.3%) ARCH1408_GATA20 + 8 (0.4%) ARCHROIDS6GADALATF1 8 (0.3%) ARCH438_Spdef + 8 (0.4%) ARCH8850_FEDZA 4/FERSY 1 7 (0.3%) ARCH483_Tbx3/Tbx2 + 7 (0.3%) ARCH647_Smad2/Smad9/s4F1 ARCH483_Tbx3/Tbx2 + 7 (0.3%) 7 (0.2%) ARCH498_PSIdeF1 ARCH483_Tbx3/Tbx2 + 7 (0.3%) 7 (0.2%) ARCABOHEDAPOLAF1 ARCH1408_GATA20 + 5 (0.2%) 5 (0.1%) ARRH8951.080XGATA2XG1 ARCH483_Tbx3/Tbx2 + 5 (0.2%) 5 (0.3%) ARCHARSH TO BE ARCHAR ARCH895_Foxn4/Foxn1 + 4 (0.2%) 4 (0.2%) ARCHRAIDSECTAPALAGT ARCH483_Tbx3/Tbx2 + 3 (0.1%) 3 (0.1%) ARCH895_Fexn4/Fexn1 ARCH647_Smad2/Smad3_Smad9/S... + 5 (0.2%) 5 (0.3%) ARCARGH 438A Spots + ARCH647_Smad2RSHA895_5AXA9FSXN1 5 (0.2%) 5 (0.2%) ARAH (8956 FOR 24) FOE 1 + ARCHRANTSCATALATT 5 (0.2%) 5 (0.3%) ARCH647 Smad2/SmargH4 mackprosef + ARCHRONDS6GROWLANT1 5 (0.2%) 5 (0.3%) ARCABGH 438A Spotof + ARCH647_Smad2/SRGd488mlax9/5.bx2 4 (0.2%) 4 (0.1%) ARRIH86408=2AATA29 + ARCH647_Smad2/SRGdd988mJax9/Sbx2 4 (0.2%) 4 (0.2%) ARCAB60H4328ASpotsof + ARCH468 PSHJdeF1 4 (0.2%) motifs ARCH860_E2X3/Tesg + ARCH4582 PSPIdeF1 4 (0.1%) ARCH647_Sm&BQBBB503F93M46F939.1. + ARCH4598_PS964F1 4 (0.2%) 4 (0.3%) ARCH880_E243/Texg + ARCH647_Smad27SHAQ95_5PX9149FSXN1 3 (0.2%) ARRIA66082AATA29 + ARCH647_Smad2/Smad8_\$H4389\$9.def 3 (0.3%) ARCH860_E243/Texg + ARCHB951080x04/A2x01 3 (0.1%) 3 (0.3%) ARCA186014328A_Spotsof + ARCHH4638_TOATATOX2 3 (0.1%) 3 (0.2%) ARCH860_E2X3/Tex3 + ARCH468 PSDJ = 1 3 (0.1%) 3 (0.3%) ARCH483_Tbx3/Tbx2 + ARCH895_Foxn4/Foxn10 20 10 30 0 10 20 % of peaks

cnidocyte q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 526 (2 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 526 (2 482 (24.8% AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 482 (23.6% FoxA/D? | FoxL2 458 (23.6%) 458 (24. 426 (22.0%) 426 (20.1%) Pou4 385 (20.3%) 385 (19.8%) Zfp760/Zfp770 Nfya 373 (19.2%) 373 (16.3%) 269 (13.9%) 269 (14.6%) Arid2 | Arid5b/Arid5a 266 (13.9%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... 266 (13.7%) 1 motif NvSox2 | NvSoxC 262 (13.5%) 262 (12.7%) 256 (13.1%) 256 (13.2%) Mlx 256 (13.2%) 256 (13.5%) Sox30 227 (11.7%) 227 (11.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... 217 (11.2%) 217 (11.0%) Creb3l2/Creb3l1 213 (11.4%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... 213 (11.0%) TEA.HG1.0:TEAD1/TEAD2/TEAD3/TEAD4 212 (10.9%) 212 (10.3%) 201 (10.4%) 201 (9.9%) HLH.HG1.77:like:NEUROD1/NEUROD2/NEUROD4/NEU... 200 (11.0%) 200 (10.3%) SoxB2/Sox3 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 110 (5.7%) 110 (6.0%) FoxA/D? | FoxL2 Nfya + 109 (4.5%) 109 (5.6%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 107 (5.8%) 107 (5.5%) Zfp760/Zfp770 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 107 (5.5%) 107 (5.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 FoxA/D? | FoxL2 + 107 (5.5%) 107 (5.2%) Pou4 FoxA/D? | FoxL2 + 102 (5.3%) 102 (5.2%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Pou4 + 102 (5.3%) 102 (4.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 100 (5.2%) 100 (4.4%) Zfp760/Zfp770 + 99 (5.1%) 99 (4.5%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Pou4 + 98 (5.1%) 98 (5.1%) Zfp760/Zfp770 FoxA/D? | FoxL2 + 90 (4.6%) 90 (5.1%) Zfp760/Zfp770 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 82 (4.2%) 82 (4.2%) NvSox2 | NvSoxC Nfya + 79 (4.1%) 79 (3.0%) Pou4 Arid2 | Arid5b/Arid5a + 77 (4.0%) 77 (4.0%) FoxA/D? | FoxL2 Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 77 (4.0%) 77 (4.2%) Sox30 Arid2 | Arid5b/Arid5a + 74 (3.8%) 74 (3.6%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Nfya + 74 (3.8%) 74 (3.4%) FoxA/D? | FoxL2 Nfya + 74 (3.8%) 74 (3.0%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 73 (3.8%) 73 (3.0%) Nfya + 71 (3.7%) 71 (3.1%) Zfp760/Zfp770 70 (3.6%) 70 (3.3%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 FoxA/D? | FoxL2 + 69 (3.6%) 69 (3.5%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... Arid2 | Arid5b/Arid5a + **N** 67 (3.5%) 67 (3.7%) motifs Pou4 Arid2 | Arid5b/Arid5a + 66 (3.4%) 66 (3.6%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Arid2 | Arid5b/Arid5a + 65 (3.4%) 65 (3.5%) Zfp760/Zfp770 Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... + 65 (3.4%) 65 (3.4%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 FoxA/D? | FoxL2 + 64 (3.3%) 64 (3.4%) Sox30 Pou4 + 64 (3.3%) 64 (2.4%) NvSox2 | NvSoxC Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 62 (3.2%) 62 (2.4%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 62 (3.2%) 62 (3.3%) SoxB2/Sox3 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 60 (3.1%) 60 (2.8%) TEA.HG1.0:TEAD1/TEAD2/TEAD3/TEAD4 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 60 (3.1%) 60 (2.4%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 59 (3.0%) 59 (2.0%) HLH.HG1.77:like:NEUROD1/NEUROD2/NEUROD4/NEU... FoxA/D? | FoxL2 + 59 (3.0%) 59 (3.0%) NvSox2 | NvSoxC Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 58 (3.0%) 58 (3.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 58 (3.0%) 58 (3.1%) FoxA/D? | FoxL2 Pou4 + 58 (3.0%) 58 (2.9%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... NvSox2 | NvSoxC + 58 (3.0%) 58 (2.2%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 57 (2.9%) 57 (3.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 NvSox2 | NvSoxC + 57 (2.9%) 57 (2.9%) Zfp760/Zfp770 Nfya + 54 (2.8%) 54 (2.0%) Mlx Nfya + 52 (2.7%) 52 (2.8%) NvSox2 | NvSoxC FoxA/D? | FoxL2 + 52 (2.7%) 52 (2.7%) TEA.HG1.0:TEAD1/TEAD2/TEAD3/TEAD4 Sox30 + 52 (2.7%) 52 (2.6%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 SoxB2/Sox3 + 52 (2.7%) 52 (3.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Pou4 + Sox30 51 (2.6%) 51 (2.4%) 20 10 20 30 0 10 0 % of peaks



5

0

10

20

15

25 0

% of peaks

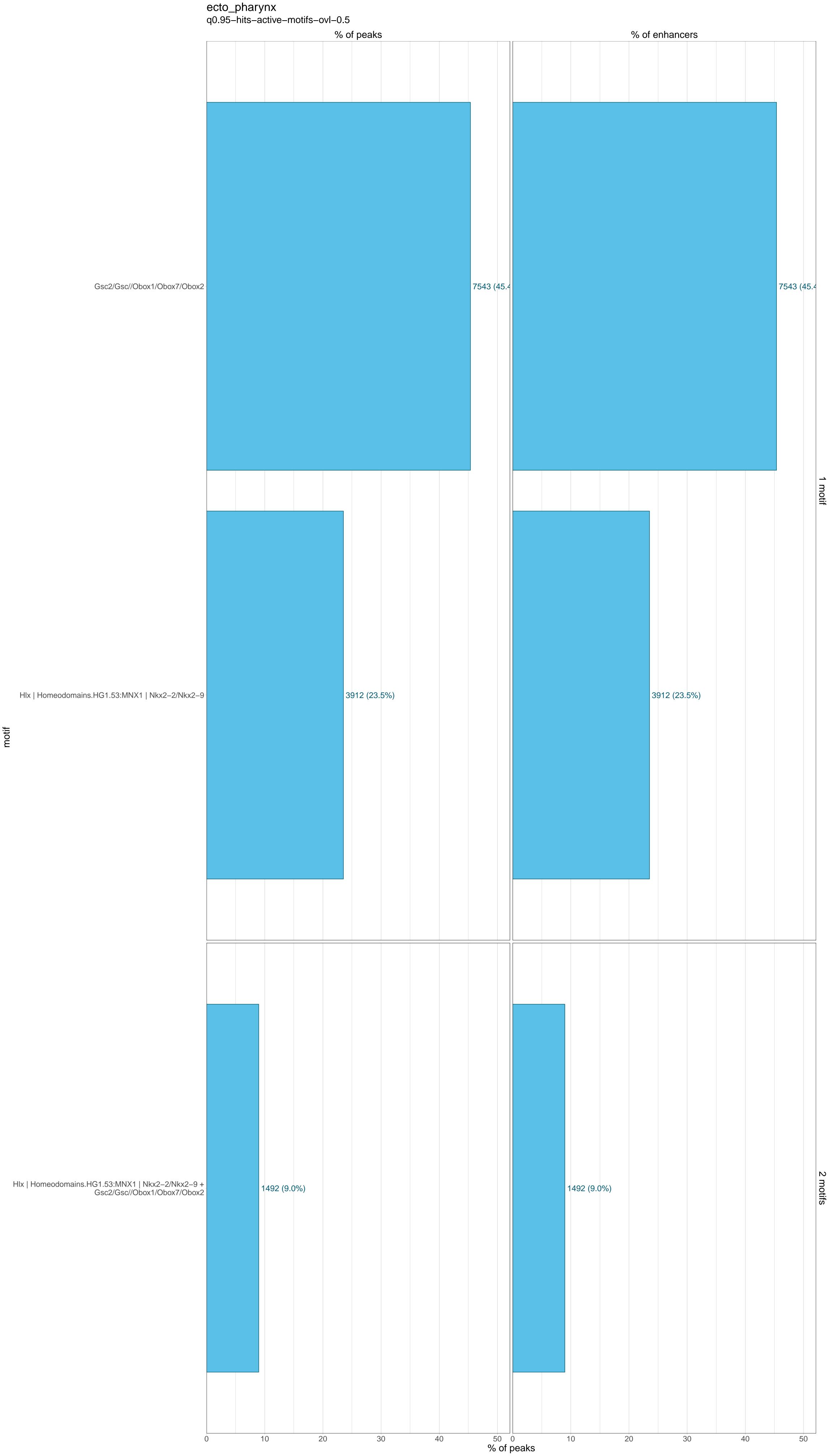
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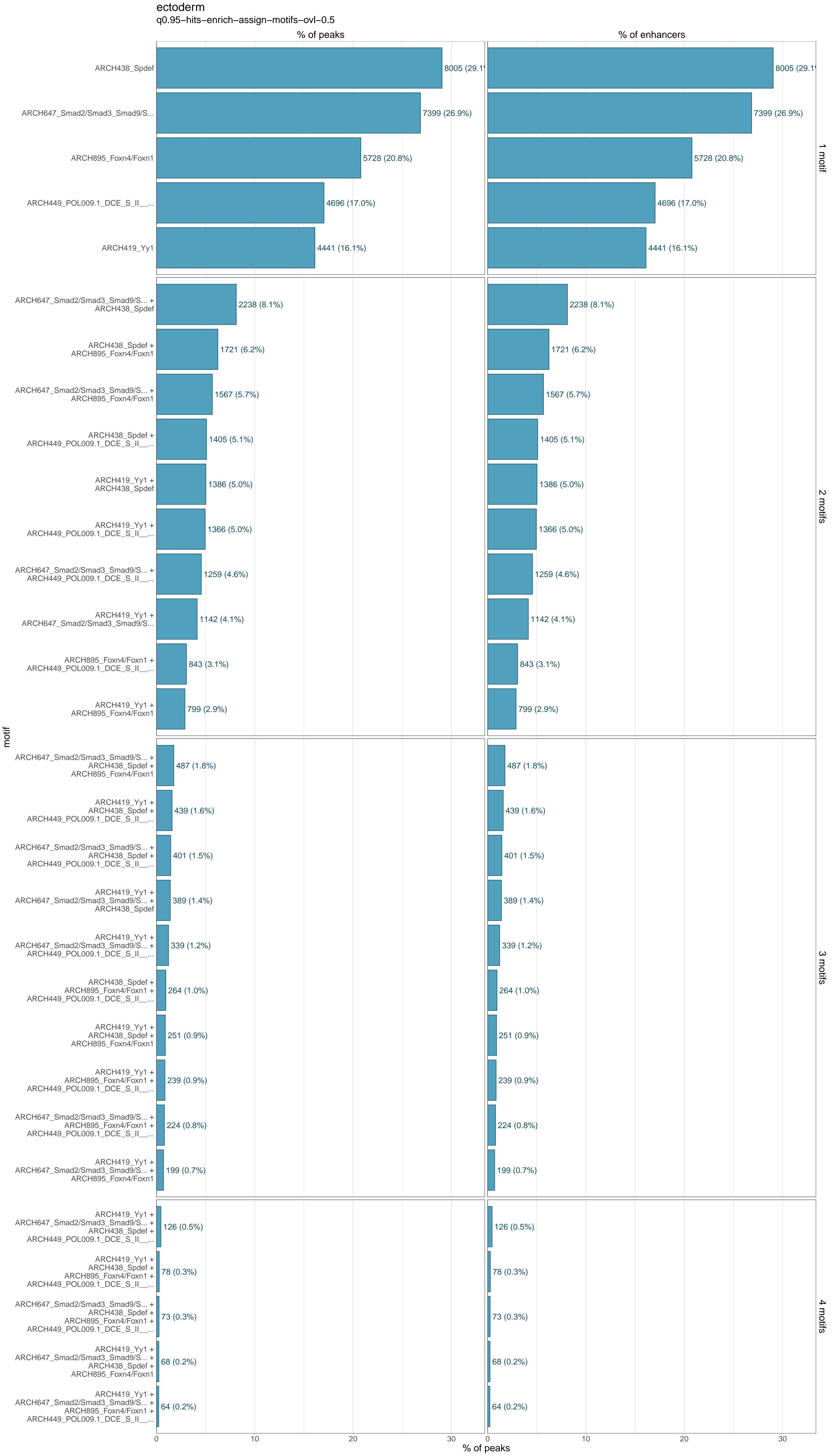
20

ecto_pharynx q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 7502 (7502 (Gsc2/Gsc//Obox1/Obox7/Obox2 3798 (19.8%) 3798 (19.8%) 3546 (18.5%) 3546 (18.5%) 2611 (13.6%) 2611 (13.6%) 2508 (13.1%) 2508 (13.1%) motif 2301 (12.0%) 2301 (12.0%) FoxA 2189 (11.4%) 2189 (11.4%) 2165 (11.3%) 2165 (11.3%) 1999 (10.4%) 1999 (10.4%) /E2f4 | E2f6 | E2f8/E2f7 1985 (10.3%) 1985 (10.3%) 1929 (10.1%) 1929 (10.1%) 1449 (7.6%) 1449 (7.6%) Gsc2/Gsc//Obox1/Obox7/Obox2 Gsc2/Gsc//Obox1/Obox7/Obox2 + 1308 (6.8%) 1308 (6.8%) 919 (4.8%) 919 (4.8%) Gsc2/Gsc//Obox1/Obox7/Obox2 Gsc2/Gsc//Obox1/Obox7/Obox2 + 910 (4.7%) 910 (4.7%) FoxA + 897 (4.7%) 897 (4.7%) Gsc2/Gsc//Obox1/Obox7/Obox2 Gsc2/Gsc//Obox1/Obox7/Obox2 + 772 (4.0%) 772 (4.0%) Gsc2/Gsc//Obox1/Obox7/Obox2 + 762 (4.0%) 762 (4.0%) Gsc2/Gsc//Obox1/Obox7/Obox2 + 727 (3.8%) 727 (3.8%) Gsc2/Gsc//Obox1/Obox7/Obox2 + 712 (3.7%) 712 (3.7%) /E2f4 | E2f6 | E2f8/E2f7 + 680 (3.5%) 680 (3.5%) Gsc2/Gsc//Obox1/Obox7/Obox2 592 (3.1%) 592 (3.1%) 504 (2.6%) 504 (2.6%) 494 (2.6%) 494 (2.6%) 467 (2.4%) 467 (2.4%) 467 (2.4%) 467 (2.4%) 415 (2.2%) 415 (2.2%) 408 (2.1%) 408 (2.1%) 384 (2.0%) 384 (2.0%) 376 (2.0%) 376 (2.0%) 356 (1.9%) 356 (1.9%) 351 (1.8%) 351 (1.8%) /E2f4 | E2f6 | E2f8/E2f7 346 (1.8%) 346 (1.8%) /E2f4 | E2f6 | E2f8/E2f7 + 344 (1.8%) 344 (1.8%) 342 (1.8%) 342 (1.8%) 340 (1.8%) 340 (1.8%) 336 (1.8%) 336 (1.8%) 333 (1.7%) 333 (1.7%) **N** motifs 325 (1.7%) 325 (1.7%) 317 (1.7%) 317 (1.7%) 316 (1.6%) 316 (1.6%) 313 (1.6%) 313 (1.6%) 303 (1.6%) 303 (1.6%) 290 (1.5%) 290 (1.5%) 276 (1.4%) 276 (1.4%) 263 (1.4%) 263 (1.4%) 251 (1.3%) 251 (1.3%) 245 (1.3%) 239 (1.2%) 239 (1.2%) FoxA + 231 (1.2%) 231 (1.2%) 227 (1.2%) 227 (1.2%) /E2f4 | E2f6 | E2f8/E2f7 FoxA + 227 (1.2%) 227 (1.2%) /E2f4 | E2f6 | E2f8/E2f7 + 219 (1.1%) 219 (1.1%) 216 (1.1%) 216 (1.1%) 205 (1.1%) 205 (1.1%) 202 (1.1%) 202 (1.1%) 202 (1.1%) /E2f4 | E2f6 | E2f8/E2f7 + 201 (1.0%) 201 (1.0%) 200 (1.0%) 199 (1.0%) 199 (1.0%) /E2f4 | E2f6 | E2f8/E2f7 + 194 (1.0%) 194 (1.0%) /E2f4 | E2f6 | E2f8/E2f7 + 188 (1.0%) 188 (1.0%) 188 (1.0%) /E2f4 | E2f6 | E2f8/E2f7 + 183 (1.0%) 183 (1.0%) /E2f4 | E2f6 | E2f8/E2f7 + 174 (0.9%) 174 (0.9%) 165 (0.9%) 165 (0.9%) 224 (1.2%) Gsc2/Gsc//Obox1/Obox7/Obox2 + 224 (1.2%) FoxA + 191 (1.0%) 191 (1.0%) 170 (0.9%) 170 (0.9%) Gsc2/Gsc//Obox1/Obox7/Obox2 + 165 (0.9%) 165 (0.9%) Gsc2/Gsc//Obox1/Obox7/Obox2 + 164 (0.9%) 164 (0.9%)

% of peaks

Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:.. HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H.. Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2... AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:.. HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + HMGbox Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox Sox.HG1.62:like:NSD2 + Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:.. Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... + Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:.. Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... + Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 HMGbox Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox Sox.HG1.62:like:NSD2 + /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... + /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 245 (1.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... + zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... HMGbox Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox Sox.HG1.62:like:NSD2 + zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2... Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 202 (1.1%) Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... + /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 200 (1.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2. AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MIHA1/MITAGE/MybathG61.43:17.588/MIXERE/LAZONHG2-49.+ HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGsb2x/GSox/Phg*:16/2/blox:74/9/b2x2 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + HIX | Homeodomains.H@IS62/@ISOX/Opakk/Qbox/kl/Qbox2 Cstf1 | Esx1 | Gbx1/GloxGbblogseadtomatos.litte:1.4F:1/trec/FSXC/FVSX2T/OfficmethologiansStub.2+163:16te:1.Ref 18502.+ Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MFAM /MTAGe/Mytholatical 123:T. 医系图的现在界际*24处例长3.40.+ Gsc2/Gsc//Obox1/Obox7/Obox2 + 149 (0.8%) 149 (0.8%) ယ Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXPbxA.+ motifs Gsc2/Gsc//Obox1/Obox7/Obox2 + 142 (0.7%) 142 (0.7%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.@3:72/76/96/1// Միթ Արդանի հայարանի հայա AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 138 (0.7%) 138 (0.7%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MIMA / NATOAGE | Gsc2/Gsc//Obox1/Obox7/Obox2 + 133 (0.7%) 133 (0.7%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf+Q2H2H2H2H6+6635市最深5.H6年252M9开X1/6时从2+2月10分2H29.+ Gsc2/Gsc//Obox1/Obox7/Obox2 + 132 (0.7%) 132 (0.7%) Gsc2/Gsc//Obox1/Obox7/Obox2 + 131 (0.7%) 131 (0.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MY@MY@UM8&@Mth2 Gsc2/Gsc//Obox1/Obox7/Obox2 + 131 (0.7%) 131 (0.7%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:727887/06872016872016842.+ 131 (0.7%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 131 (0.7%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... 10 10 20 30 20 30 40

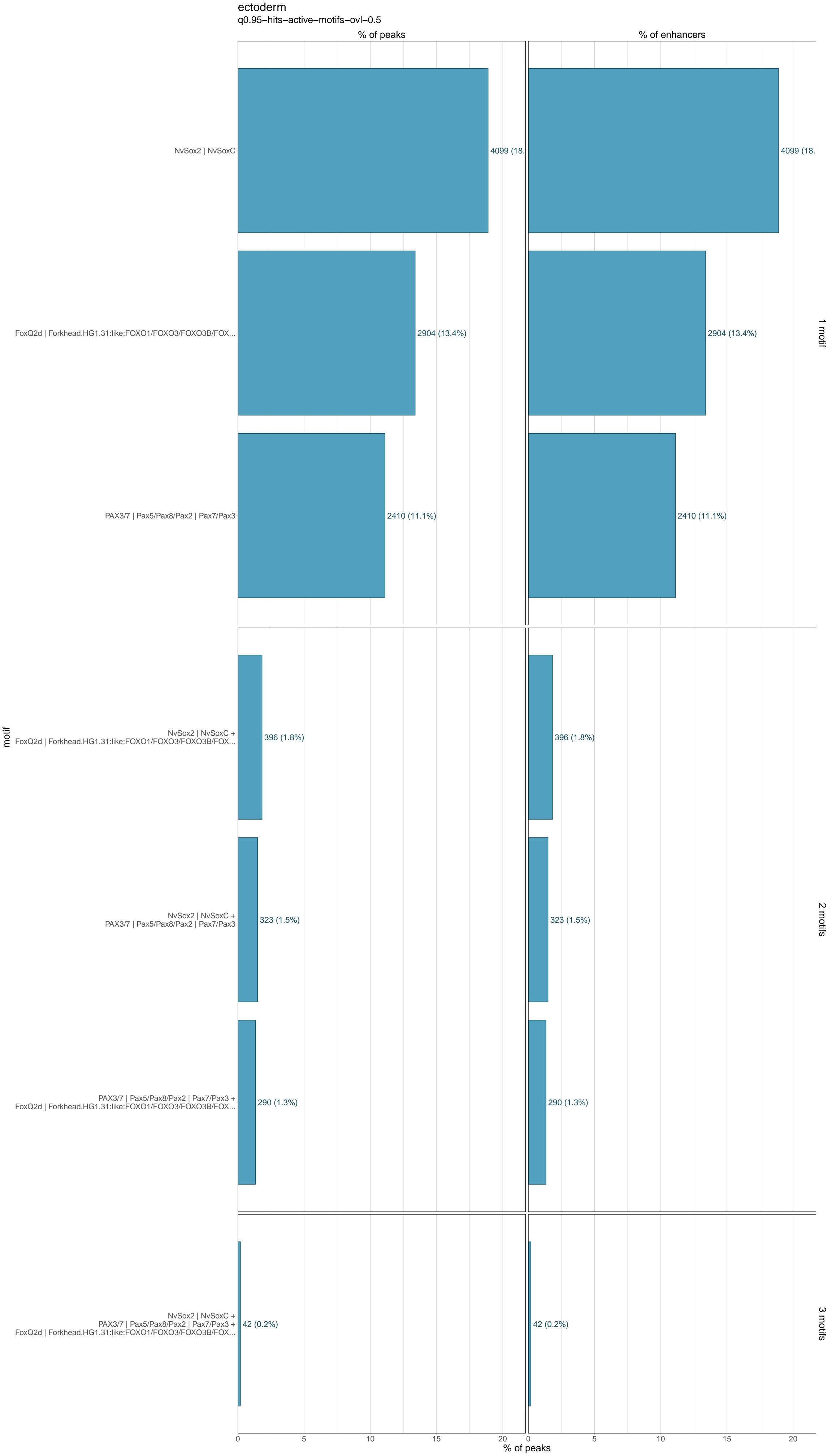




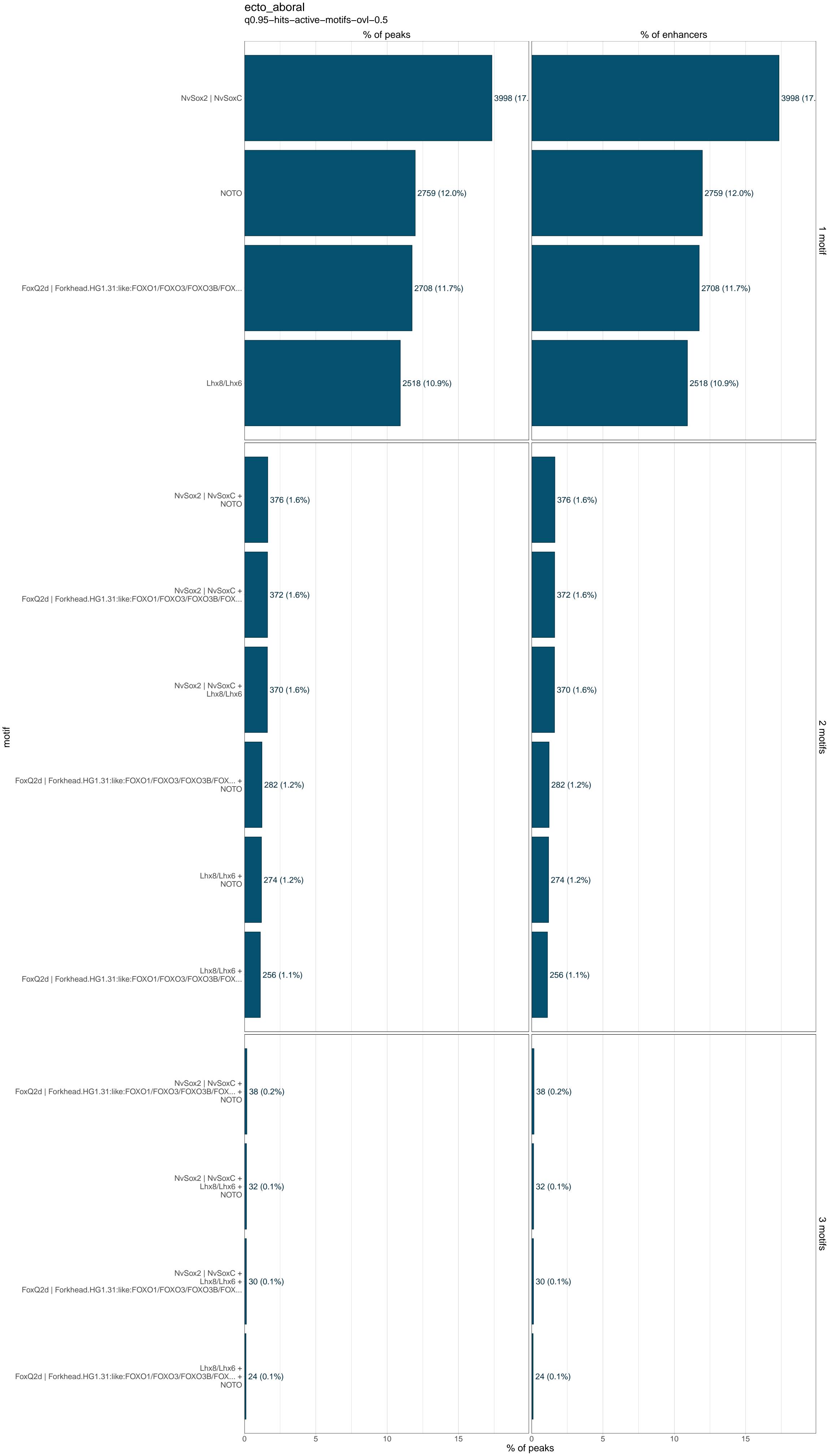
ectoderm q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 4273 (4273 (NvSox2 | NvSoxC 4215 (4215 (4132 (10 4132 (1 3729 (14.5% 3729 (14.5% Fos/Fosb/Fosl1/Fosl2 1 motif 3325 (12.9%) 3325 (12.9%) 3014 (11.7%) 3014 (11.7%) Foxm1 2978 (11.6%) 2978 (11.6%) Nkx-2.2a | Tgif1/Tgif2 2963 (11.5%) 2963 (11.5%) 2961 (11.5%) 2961 (11.5%) 2627 (10.2%) 2627 (10.2%) Klf7 695 (2.7%) 695 (2.7%) NvSox2 | NvSoxC + 597 (2.3%) 597 (2.3%) Fos/Fosb/Fosl1/Fosl2 + 575 (2.2%) 575 (2.2%) NvSox2 | NvSoxC + 558 (2.2%) 558 (2.2%) 509 (2.0%) 509 (2.0%) 509 (2.0%) 509 (2.0%) Fos/Fosb/Fosl1/Fosl2 + 505 (2.0%) 505 (2.0%) Fos/Fosb/Fosl1/Fosl2 + 500 (1.9%) 500 (1.9%) NvSox2 | NvSoxC 499 (1.9%) 499 (1.9%) NvSox2 | NvSoxC 499 (1.9%) 499 (1.9%) Fos/Fosb/Fosl1/Fosl2 474 (1.8%) 474 (1.8%) 468 (1.8%) 468 (1.8%) Foxm1 + 459 (1.8%) 459 (1.8%) NvSox2 | NvSoxC Fos/Fosb/Fosl1/Fosl2 + 450 (1.8%) 450 (1.8%) Nkx-2.2a | Tgif1/Tgif2 449 (1.7%) 449 (1.7%) Foxm1 + 444 (1.7%) 444 (1.7%) Nkx-2.2a | Tgif1/Tgif2 + 442 (1.7%) 442 (1.7%) Nkx-2.2a | Tgif1/Tgif2 + 440 (1.7%) 440 (1.7%) 438 (1.7%) 438 (1.7%) 429 (1.7%) 429 (1.7%) NvSox2 | NvSoxC NvSox2 | NvSoxC + 426 (1.7%) 426 (1.7%) Nkx-2.2a | Tgif1/Tgif2 Klf7 + 426 (1.7%) 426 (1.7%) 2 motifs 421 (1.6%) 421 (1.6%) 414 (1.6%) 414 (1.6%) Fos/Fosb/Fosl1/Fosl2 NvSox2 | NvSoxC + 387 (1.5%) 387 (1.5%) 381 (1.5%) 381 (1.5%) Nkx-2.2a | Tgif1/Tgif2 Foxm1 + 380 (1.5%) 380 (1.5%) Fos/Fosb/Fosl1/Fosl2 Fos/Fosb/Fosl1/Fosl2 + 362 (1.4%) 362 (1.4%) NvSox2 | NvSoxC + 361 (1.4%) 361 (1.4%) Klf7 357 (1.4%) 357 (1.4%) 348 (1.4%) 348 (1.4%) 348 (1.4%) 348 (1.4%) Foxm1 Klf7 + 340 (1.3%) 340 (1.3%) 338 (1.3%) 338 (1.3%) Foxm1 + 331 (1.3%) 331 (1.3%) 330 (1.3%) 330 (1.3%) Fos/Fosb/Fosl1/Fosl2 + 329 (1.3%) 329 (1.3%) Klf7 Foxm1 + 322 (1.3%) 322 (1.3%) Nkx-2.2a | Tgif1/Tgif2 311 (1.2%) 311 (1.2%) Nkx-2.2a | Tgif1/Tgif2 298 (1.2%) 298 (1.2%) Nkx-2.2a | Tgif1/Tgif2 288 (1.1%) 288 (1.1%) Foxm1 + 284 (1.1%) 284 (1.1%) Klf7 272 (1.1%) 272 (1.1%) Nkx-2.2a | Tgif1/Tgif2 257 (1.0%) 257 (1.0%) 227 (0.9%) 227 (0.9%) NvSox2 | NvSoxC + 93 (0.4%) 93 (0.4%) 88 (0.3%) 88 (0.3%) 86 (0.3%) 86 (0.3%) 80 (0.3%) 80 (0.3%) Fos/Fosb/Fosl1/Fosl2 + 77 (0.3%) 77 (0.3%)

% of peaks

FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2.. Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | 中会X3///Duxbxf/ Pershfexiol manys/fiax3 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... Cers6/Cers5 | DIx4/DIx1/DIx3/DIx6/DIx2/DIx5 | Homeodomains.HG1.55:like? Homeodomains HG1.55:like? HG1.55:like Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOX医?※PZ分k师&bhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOX医?※PZ分k师&bhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOX医?※PZ分k师&bhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXE? FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 76 (0.3%) 76 (0.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:POXA1/FOXA1/FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:POXA1/FOXA1/FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | 72 (0.3%) NvSox2 | NvSoxC + 72 (0.3%) PAX3/7 | Pax5/Pax/Pbs/A-bs/ax768px3 Nkx-2.2a | Tgif1/Tgif2 + 72 (0.3%) 72 (0.3%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FQ券. 71 (0.3%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 71 (0.3%) PAX3/7 | Pax5/Pax8/Pax2/Pax2+1/Pax7/Pax3 motifs 70 (0.3%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 70 (0.3%) Cers6/Cers5 | DIx4/DIx1/DIx3/DIx6/DIx2/DIx5 | Homeodomains.HG1.55:like/2017eln245/Bax2/Bax2/Bax2 68 (0.3%) Fos/Fosb/Fosl1/Fosl2 + 68 (0.3%) FDS/F-03-13/FDJg/FDJg/FDJg/F2 65 (0.3%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 65 (0.3%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FQX/P3/FQXQBB/FQX.+ 64 (0.2%) 64 (0.2%) NvSox2 | NvSoxC + FoxQ2d | Forkhead.HG1.31:like:FOXO1/FQX/P3/FQXQPB/FGQX.+ 64 (0.2%) 64 (0.2%) 63 (0.2%) 63 (0.2%) Fos/Fosb/Fosl1/Fosl2 + NvSox2 | MySoxG NvSox2 | NvSoxC + 63 (0.2%) 63 (0.2%) Cers6/Cers5 | DIx4/DIx1/DIx3/DIx6/DIx2/DIx5 | FIBMP2dbFPaiKbPacHS5!iRe:世中:17日X21/FPX21/FPXA3/5FPXiP3.FV52X:+ Nkx-2.2a | Tgif1/Tgif2 + 62 (0.2%) 62 (0.2%) 61 (0.2%) 61 (0.2%) Foxm1 + Cers6/Cers5 | DIx4/DIx1/DIx3/DIx6/DIx2/DIx5 | Homeodomains.HG1.55:like:EN1/EN2 | Horhes/ชิวาร์โดยรูปใช้รูวเรา2 61 (0.2%) NvSox2 | NvSoxC + 61 (0.2%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 5 10 15 15 5 10



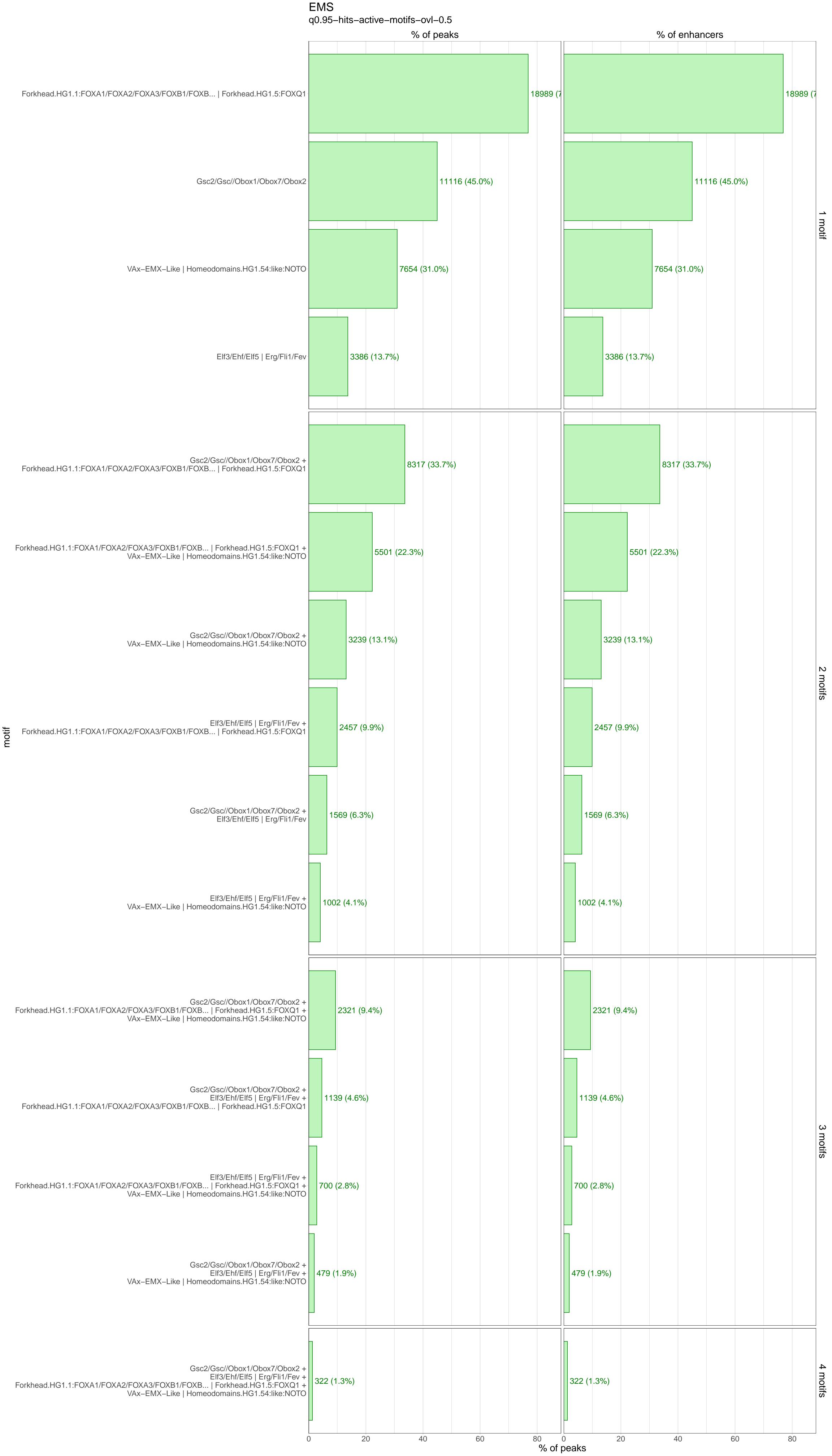
ecto_aboral q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 4121 (4121 (NvSox2 | NvSoxC 4061 (1 Lhx8/Lhx6 4061 (Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... 4045 (1 4045 (1 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... 4010 (1 4010 (1 PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 3816 (14.7 3816 (14. 3497 (13.5%) 3474 (13.4%) \$\frac{1}{3}\$ 3497 (13.5%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... 3474 (13.4%) Fos/Fosb/Fosl1/Fosl2 3102 (12.0%) 3102 (12.0%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... 3065 (11.8%) 3065 (11.8%) Tbx5/Tbx4 2918 (11.3%) 2918 (11.3%) Foxm1 2917 (11.3%) 2917 (11.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... Nkx-2.2a | Tgif1/Tgif2 2614 (10.1%) 2614 (10.1%) Lhx8/Lhx6 + 634 (2.4%) 634 (2.4%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 + 632 (2.4%) 632 (2.4%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... Lhx8/Lhx6 + 626 (2.4%) 626 (2.4%) NvSox2 | NvSoxC Lhx8/Lhx6 + 606 (2.3%) 606 (2.3%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 598 (2.3%) 598 (2.3%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... NvSox2 | NvSoxC + 593 (2.3%) 593 (2.3%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... NvSox2 | NvSoxC + 585 (2.3%) 585 (2.3%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 + 582 (2.2%) 582 (2.2%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Fos/Fosb/Fosl1/Fosl2 + 575 (2.2%) 575 (2.2%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Lhx8/Lhx6 + 571 (2.2%) 571 (2.2%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Lhx8/Lhx6 + 568 (2.2%) 568 (2.2%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 534 (2.1%) 534 (2.1%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... NvSox2 | NvSoxC + 517 (2.0%) 517 (2.0%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Fos/Fosb/Fosl1/Fosl2 + 511 (2.0%) 511 (2.0%) Lhx8/Lhx6 Tbx5/Tbx4 + 508 (2.0%) 508 (2.0%) Lhx8/Lhx6 Fos/Fosb/Fosl1/Fosl2 + 506 (2.0%) 506 (2.0%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 + 492 (1.9%) 492 (1.9%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 487 (1.9%) 487 (1.9%) Lhx8/Lhx6 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 477 (1.8%) 477 (1.8%) NvSox2 | NvSoxC Fos/Fosb/Fosl1/Fosl2 + 464 (1.8%) 464 (1.8%) NvSox2 | NvSoxC Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 458 (1.8%) 458 (1.8%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 457 (1.8%) 457 (1.8%) Fos/Fosb/Fosl1/Fosl2 Foxm1 + 457 (1.8%) 457 (1.8%) Lhx8/Lhx6 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 453 (1.7%) 453 (1.7%) Lhx8/Lhx6 Foxm1 + 449 (1.7%) 449 (1.7%) NvSox2 | NvSoxC NvSox2 | NvSoxC + 446 (1.7%) 446 (1.7%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 443 (1.7%) 443 (1.7%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 440 (1.7%) 440 (1.7%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 438 (1.7%) 438 (1.7%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... Tbx5/Tbx4 + 435 (1.7%) 435 (1.7%) NvSox2 | NvSoxC Fos/Fosb/Fosl1/Fosl2 + 434 (1.7%) 434 (1.7%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Tbx5/Tbx4 + 431 (1.7%) 431 (1.7%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... 2 motifs Tbx5/Tbx4 +417 (1.6%) 417 (1.6%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 416 (1.6%) 416 (1.6%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Tbx5/Tbx4 +416 (1.6%) 416 (1.6%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 415 (1.6%) 415 (1.6%) NvSox2 | NvSoxC Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 414 (1.6%) 414 (1.6%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 406 (1.6%) 406 (1.6%) Nkx-2.2a | Tgif1/Tgif2 Foxm1 + 402 (1.6%) 402 (1.6%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX.. 401 (1.5%) 401 (1.5%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 393 (1.5%) 393 (1.5%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Foxm1 + 393 (1.5%) 393 (1.5%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Fos/Fosb/Fosl1/Fosl2 + 392 (1.5%) 392 (1.5%) Nkx-2.2a | Tgif1/Tgif2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 391 (1.5%) 391 (1.5%) Fos/Fosb/Fosl1/Fosl2 Fos/Fosb/Fosl1/Fosl2 + 391 (1.5%) 391 (1.5%) Tbx5/Tbx4 Lhx8/Lhx6 + 391 (1.5%) 391 (1.5%) Nkx-2.2a | Tgif1/Tgif2 Fos/Fosb/Fosl1/Fosl2 + 384 (1.5%) 384 (1.5%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Nkx-2.2a | Tgif1/Tgif2 + 380 (1.5%) 380 (1.5%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... Tbx5/Tbx4 +379 (1.5%) 379 (1.5%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... 375 (1.4%) 375 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 372 (1.4%) 372 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 + 372 (1.4%) 372 (1.4%) Nkx-2.2a | Tgif1/Tgif2 Foxm1 + 369 (1.4%) 369 (1.4%) Fos/Fosb/Fosl1/Fosl2 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 366 (1.4%) 366 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... NvSox2 | NvSoxC + 362 (1.4%) 362 (1.4%) Nkx-2.2a | Tgif1/Tgif2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 358 (1.4%) 358 (1.4%) Tbx5/Tbx4 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 351 (1.4%) 351 (1.4%) Tbx5/Tbx4 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 343 (1.3%) 343 (1.3%) Foxm1 Foxm1 + 342 (1.3%) 342 (1.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 340 (1.3%) 340 (1.3%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 335 (1.3%) 335 (1.3%) Nkx-2.2a | Tgif1/Tgif2 Tbx5/Tbx4 + 330 (1.3%) 330 (1.3%) Nkx-2.2a | Tgif1/Tgif2 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 325 (1.3%) 325 (1.3%) Nkx-2.2a | Tgif1/Tgif2 + 320 (1.2%) 320 (1.2%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Foxm1 + 287 (1.1%) 287 (1.1%) Nkx-2.2a | Tgif1/Tgif2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 250 (1.0%) 250 (1.0%) Nkx-2.2a | Tgif1/Tgif2 10 10 5 15 15 % of peaks



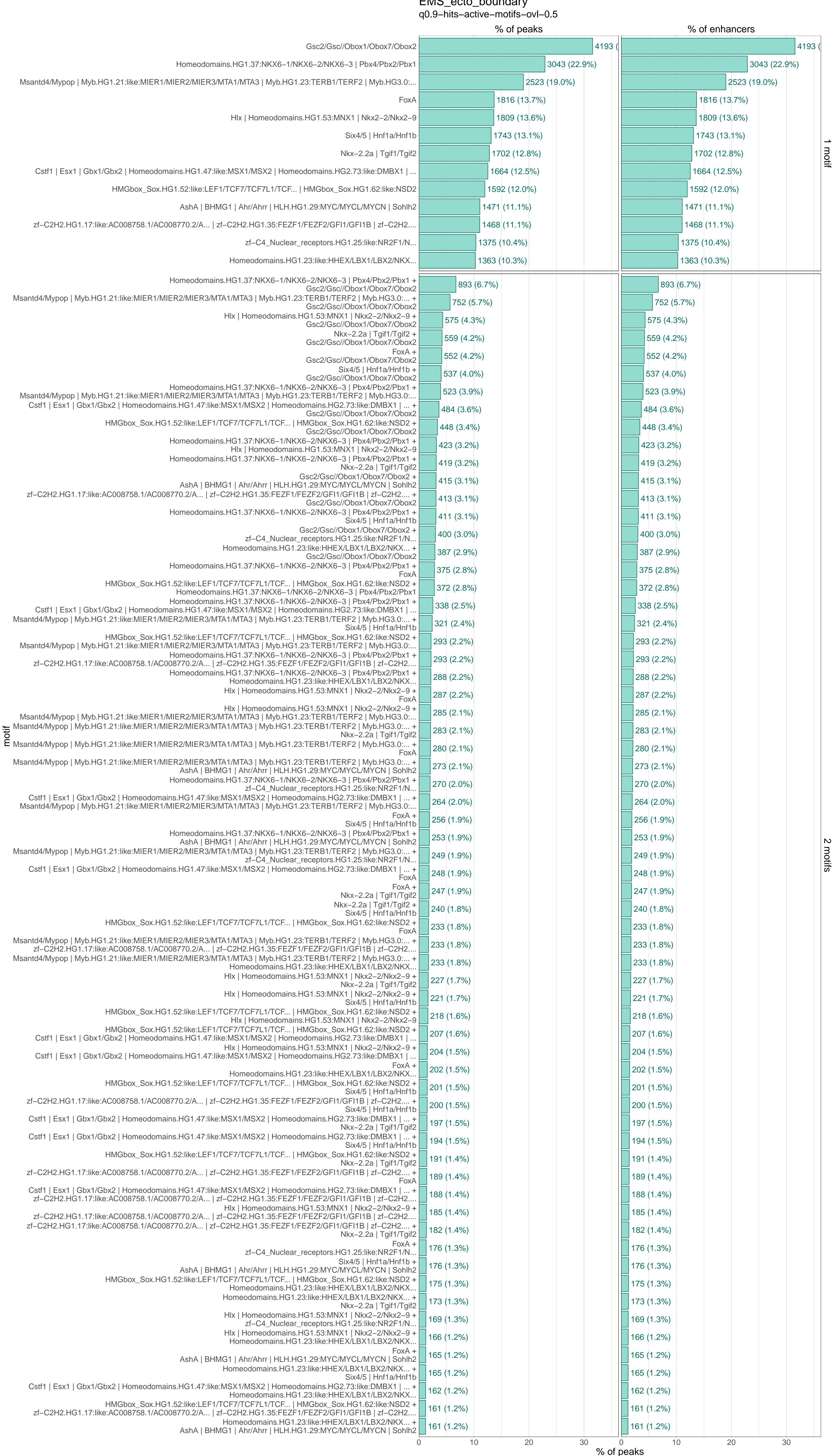
EMS q0.9-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 13869 (53.0 13869 (53.0 ARCH438_Spdef 12165 (47.0%) 12165 (47.0%) ARCH647_Smad2/Smad3_Smad9/S... 7853 (30.3%) 7853 (30.3%) ARCH1408_GATA20 7627 (29.5%) 7627 (29.5%) ARCH895_Foxn4/Foxn1 6796 (26.3%) 6796 (26.3%) ARCH483_Tbx3/Tbx2 4975 (19.2%) 4975 (19.2%) ARCH1253_Yy1 ARCH1627_Xbp1 4862 (18.8%) 4862 (18.8%) 3781 (14.6%) 3781 (14.6%) ARCH178_Foxc2/Foxc1_Foxg1/G.. 3624 (14.0%) 3624 (14.0%) ARCH379_RDS1__M06389_2.00 3241 (12.5%) 3241 (12.5%) ARCH1571_Usf3 1 motif 3238 (12.5%) ARCH1633_M02161_2.00 3238 (12.5%) 3060 (11.8%) 3060 (11.8%) ARCH562_Hnf4g/Hnf4a_Nr2c1/N... 3048 (11.8%) 3048 (11.8%) ARCH954_Foxn4/Foxn1 3044 (11.8%) 3044 (11.8%) ARCH669_TCP17 2963 (11.4%) 2963 (11.4%) ARCH584_Elf3/Ehf/Elf5_Erg/F... 2828 (10.9%) 2828 (10.9%) ARCH377_Nrf1 ARCH885_Mafb__M04343_2.00__.. 2768 (10.7%) 2768 (10.7%) 2678 (10.3%) 2678 (10.3%) ARCH1420_RUNX2 2659 (10.3%) 2659 (10.3%) ARCH1259_RRTF1__ERF4__RAP26... 2602 (10.1%) 2602 (10.1%) ARCH428_RAP211 2592 (10.0%) ARCH816_Pax7/Pax3 2592 (10.0%) ARCH438_Spdef + 6648 (25.7%) 6648 (25.7%) ARCH647_Smad2/Smad3_Smad9/S... ARCH438_Spdef + 4231 (16.3%) 4231 (16.3%) ARCH1408_GATA20 ARCH438_Spdef + 4133 (16.0%) 4133 (16.0%) ARCH895_Foxn4/Foxn1 ARCH1408_GATA20 + 3700 (14.3%) 3700 (14.3%) ARCH647_Smad2/Smad3_Smad9/S. ARCH438_Spdef + 3657 (14.1%) 3657 (14.1%) ARCH483_Tbx3/Tbx2 ARCH647 Smad2/Smad3 Smad9/S... + 3582 (13.8%) 3582 (13.8%) ARCH895_Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S... + 3249 (12.6%) 3249 (12.6%) ARCH483 Tbx3/Tbx2 ARCH438_Spdef + 2749 (10.6%) 2749 (10.6%) ARCH1253_Yy1 ARCH438_Spdef + 2627 (10.1%) 2627 (10.1%) ARCH1627_Xbp1 ARCH1253_Yy1 + 2292 (8.9%) 2292 (8.9%) ARCH647_Smad2/Smad3_Smad9/S... ARCH1408 GATA20 + 2270 (8.8%) 2270 (8.8%) ARCH895_Foxn4/Foxn1 ARCH647 Smad2/Smad3 Smad9/S... + 2261 (8.7%) 2261 (8.7%) ARCH1627_Xbp1 ARCH1408_GATA20 + 2110 (8.2%) 2110 (8.2%) ARCH483_Tbx3/Tbx2 ARCH483 Tbx3/Tbx2 + 2011 (7.8%) 2011 (7.8%) ARCH895_Foxn4/Foxn1 ARCH438_Spdef + 1980 (7.6%) 1980 (7.6%) ARCH178_Foxc2/Foxc1_Foxg1/G.. ARCH438_Spdef + 1946 (7.5%) 1946 (7.5%) ARCH379_RDS1__M06389_2.00 ARCH178_Foxc2/Foxc1_Foxg1/G... + 1757 (6.8%) 1757 (6.8%) ARCH647_Smad2/Smad3_Smad9/S... ARCH379_RDS1__M06389_2.00 + 1736 (6.7%) 1736 (6.7%) ARCH647_Smad2/Smad3_Smad9/S... ARCH438_Spdef + 1687 (6.5%) 1687 (6.5%) ARCH1633_M02161_2.00 ARCH438_Spdef + 1654 (6.4%) 1654 (6.4%) ARCH562_Hnf4g/Hnf4a_Nr2c1/N... ARCH438_Spdef + 1632 (6.3%) 1632 (6.3%) ARCH669_TCP17 ARCH438_Spdef + 1579 (6.1%) 1579 (6.1%) ARCH1571_Usf3 ARCH438_Spdef + 1575 (6.1%) 1575 (6.1%) ARCH954_Foxn4/Foxn1 ARCH438_Spdef + 1549 (6.0%) 1549 (6.0%) ARCH584_Elf3/Ehf/Elf5_Erg/F... ARCH438_Spdef + 1495 (5.8%) 1495 (5.8%) 2 motifs ARCH377_Nrf1 ARCH1633_M02161_2.00 + 1488 (5.7%) 1488 (5.7%) ARCH647 Smad2/Smad3 Smad9/S... ARCH1408_GATA20 + 1484 (5.7%) 1484 (5.7%) ARCH1627_Xbp1 ARCH954_Foxn4/Foxn1 + 1479 (5.7%) 1479 (5.7%) ARCH647_Smad2/Smad3_Smad9/S... ARCH438_Spdef + 1468 (5.7%) 1468 (5.7%) ARCH1420 RUNX2 ARCH895_Foxn4/Foxn1 + 1445 (5.6%) 1445 (5.6%) ARCH1627_Xbp1 ARCH647_Smad2/Smad3_Smad9/S... + 1444 (5.6%) 1444 (5.6%) ARCH1571_Usf3 ARCH438_Spdef + 1421 (5.5%) 1421 (5.5%) ARCH885_Mafb__M04343_2.00__.. ARCH647_Smad2/Smad3_Smad9/S... + 1413 (5.5%) 1413 (5.5%) ARCH562_Hnf4g/Hnf4a_Nr2c1/N.. ARCH438 Spdef + 1412 (5.5%) 1412 (5.5%) ARCH1259_RRTF1__ERF4__RAP26.. ARCH438_Spdef + 1390 (5.4%) 1390 (5.4%) ARCH428_RAP211 ARCH647_Smad2/Smad3_Smad9/S... + 1381 (5.3%) 1381 (5.3%) ARCH669_TCP17 ARCH1408_GATA20 + 1377 (5.3%) 1377 (5.3%) ARCH1253_Yy1 ARCH584_Elf3/Ehf/Elf5_Erg/F... + 1377 (5.3%) 1377 (5.3%) ARCH647_Smad2/Smad3_Smad9/S... ARCH1253_Yy1 + 1351 (5.2%) 1351 (5.2%) ARCH895_Foxn4/Foxn1 ARCH483 Tbx3/Tbx2 + 1303 (5.0%) 1303 (5.0%) ARCH1627_Xbp1 ARCH438_Spdef + 1289 (5.0%) 1289 (5.0%) ARCH816 Pax7/Pax3 ARCH1253_Yy1 + 1283 (5.0%) 1283 (5.0%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 1274 (4.9%) 1274 (4.9%) ARCH377 Nrf1 ARCH647_Smad2/Smad3_Smad9/S... + 1273 (4.9%) 1273 (4.9%) ARCH1420_RUNX2 ARCH647_Smad2/Smad3_Smad9/S... + 1268 (4.9%) 1268 (4.9%) ARCH1259_RRTF1__ERF4__RAP26.. ARCH647 Smad2/Smad3 Smad9/S... + 1253 (4.8%) 1253 (4.8%) ARCH885_Mafb__M04343_2.00__.. ARCH647_Smad2/Smad3_Smad9/S... + 1185 (4.6%) 1185 (4.6%) ARCH816_Pax7/Pax3 ARCH647_Smad2/Smad3_Smad9/S... + 1182 (4.6%) 1182 (4.6%) ARCH428_RAP211 ARCH379_RDS1__M06389_2.00 + 1129 (4.4%) 1129 (4.4%) ARCH1408 GATA20 ARCH178_Foxc2/Foxc1_Foxg1/G... + 1081 (4.2%) 1081 (4.2%) ARCH1408_GATA20 ARCH178_Foxc2/Foxc1_Foxg1/G... + 1081 (4.2%) 1081 (4.2%) ARCH895_Foxn4/Foxn1 ARCH438_Spdef + 2036 (7.9%) 2036 (7.9%) ARCH1408_GATA20 + ARCH647_Smad2/3mad+3433mspd0/45.+ 1958 (7.6%) 1958 (7.6%) ARCH647_Smad2/Smad3_Smad9/S... + ARCH895HF68n5/F08f1 ARCH647_Smad2/Smad3_Smad9/S... + 1769 (6.8%) 1769 (6.8%) ARARIGBA38653/John 3 motifs 1302 (5.0%) 1302 (5.0%) ARCH1253_Yy1 + ARCH647_Smad2/3mad+3433mspd0/45.+ 1253 (4.8%) ARCH647_Smad2/Smad3_Smad9/S... + 1253 (4.8%) ARRCH3823p86p1 1223 (4.7%) 1223 (4.7%) ARCH1408_GATA20 + ARCH895HF98n5/F08f1 ARCH1408_GATA20 + 1140 (4.4%) 1140 (4.4%) ARARGBB386570Tex2 1105 (4.3%) 1105 (4.3%) ARCH483 Tbx3/Tbx2 + ARCH895_Foxn4/Foxn1 20 20 40 60 0 40 60 % of peaks

EMS q0.95-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 7072 (27.3) 7072 (27.39 ARCH438_Spdef 6414 (24.8%) 6414 (24.8%) ARCH647_Smad2/Smad3_Smad9/S... 4124 (15.9%) 4124 (15.9%) ARCH449_POL009.1_DCE_S_II__... 4002 (15.5%) 4002 (15.5%) ARCH419_Yy1 1 motif 3981 (15.4%) 3981 (15.4%) ARCH1408_GATA20 3938 (15.2%) 3938 (15.2%) ARCH895_Foxn4/Foxn1 3558 (13.7%) 3558 (13.7%) ARCH483_Tbx3/Tbx2 3010 (11.6%) 3010 (11.6%) ARCH581_Elf3/Ehf/Elf5_Erg/F... 2688 (10.4%) 2688 (10.4%) ARCH1627_Xbp1 ARCH647_Smad2/Smad3_Smad9/S... + 1819 (7.0%) 1819 (7.0%) ARCH438_Spdef ARCH419_Yy1 + 1128 (4.4%) 1128 (4.4%) ARCH438_Spdef ARCH438_Spdef + 1118 (4.3%) 1118 (4.3%) ARCH895_Foxn4/Foxn1 ARCH419_Yy1 + 1115 (4.3%) 1115 (4.3%) ARCH449_POL009.1_DCE_S_II__.. ARCH449_POL009.1_DCE_S_II__... + 1102 (4.3%) 1102 (4.3%) ARCH438_Spdef ARCH438_Spdef + 1088 (4.2%) 1088 (4.2%) ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 1024 (4.0%) 1024 (4.0%) ARCH1408_GATA20 ARCH647 Smad2/Smad3 Smad9/S... + 996 (3.8%) 996 (3.8%) ARCH449_POL009.1_DCE_S_II__.. ARCH647_Smad2/Smad3_Smad9/S... + 980 (3.8%) 980 (3.8%) ARCH895_Foxn4/Foxn1 ARCH483_Tbx3/Tbx2 + 973 (3.8%) 973 (3.8%) ARCH438_Spdef ARCH419_Yy1 + 939 (3.6%) 939 (3.6%) ARCH647_Smad2/Smad3_Smad9/S... ARCH647_Smad2/Smad3_Smad9/S... + 878 (3.4%) 878 (3.4%) ARCH483_Tbx3/Tbx2 ARCH438_Spdef + 813 (3.1%) 813 (3.1%) ARCH581_Elf3/Ehf/Elf5_Erg/F... ARCH438 Spdef + 762 (2.9%) 762 (2.9%) ARCH1627_Xbp1 ARCH647_Smad2/Smad3_Smad9/S... + 755 (2.9%) 755 (2.9%) ARCH581_Elf3/Ehf/Elf5_Erg/F... ARCH647 Smad2/Smad3 Smad9/S... + 677 (2.6%) 677 (2.6%) ARCH1627_Xbp1 ARCH895 Foxn4/Foxn1 + 601 (2.3%) 601 (2.3%) ARCH1408_GATA20 2 motifs ARCH483 Tbx3/Tbx2 + 584 (2.3%) 584 (2.3%) ARCH895_Foxn4/Foxn1 ARCH483 Tbx3/Tbx2 + 584 (2.3%) 584 (2.3%) ARCH1408_GATA20 ARCH449_POL009.1_DCE_S_II__... + 570 (2.2%) 570 (2.2%) ARCH895_Foxn4/Foxn1 ARCH419_Yy1 + 569 (2.2%) 569 (2.2%) ARCH1408_GATA20 ARCH449_POL009.1_DCE_S_II__... + 569 (2.2%) 569 (2.2%) ARCH1408 GATA20 ARCH419_Yy1 + 544 (2.1%) 544 (2.1%) ARCH895_Foxn4/Foxn1 ARCH419_Yy1 + 521 (2.0%) 521 (2.0%) ARCH483_Tbx3/Tbx2 ARCH483_Tbx3/Tbx2 + 520 (2.0%) 520 (2.0%) ARCH449_POL009.1_DCE_S_II__.. ARCH1408 GATA20 + 460 (1.8%) 460 (1.8%) ARCH581_Elf3/Ehf/Elf5_Erg/F... ARCH895_Foxn4/Foxn1 + 458 (1.8%) 458 (1.8%) ARCH581_Elf3/Ehf/Elf5_Erg/F... ARCH449_POL009.1_DCE_S_II__... + 421 (1.6%) 421 (1.6%) ARCH1627_Xbp1 ARCH895_Foxn4/Foxn1 + 412 (1.6%) 412 (1.6%) ARCH1627_Xbp1 ARCH483 Tbx3/Tbx2 + 401 (1.5%) 401 (1.5%) ARCH1627_Xbp1 ARCH1408_GATA20 + 401 (1.5%) 401 (1.5%) ARCH1627_Xbp1 ARCH419_Yy1 + 394 (1.5%) 394 (1.5%) ARCH1627_Xbp1 ARCH483 Tbx3/Tbx2 + 376 (1.5%) 376 (1.5%) ARCH581_Elf3/Ehf/Elf5_Erg/F... ARCH419_Yy1 + 320 (1.2%) 320 (1.2%) ARCH581_Elf3/Ehf/Elf5_Erg/F... ARCH449_POL009.1_DCE_S_II__... + 312 (1.2%) 312 (1.2%) ARCH581_Elf3/Ehf/Elf5_Erg/F... ARCH581_Elf3/Ehf/Elf5_Erg/F... + 307 (1.2%) 307 (1.2%) ARCH1627_Xbp1 ARCH419_Yy1 + F 330 (1.3%) 330 (1.3%) ARCH449_POL009.1_DCE_S_II__... + ARCH647_Smad2/Smad8_Q\$14289.\$p.def ARCH438_Spdef + 317 (1.2%) 317 (1.2%) ARCH647_Smad2/ShRadd1508a69/SA2Q 300 (1.2%) 300 (1.2%) ARCH449_POL009.1_DCE_S_II__... + ARCH647_Smad2/Smad8_Q\$14289.8p.def ARCH438_Spdef + 294 (1.1%) 294 (1.1%) ARCH8915 OF pxngl/Froxin1 287 (1.1%) ARCH647_Smad2/Smad3_Smad9/S... + 287 (1.1%) ARCH438_Spdef 267 (1.0%) 267 (1.0%) ARCH647_Smad2/Smad3_Smad9/S... + AROR647459m2021/999ad3DSFa8915...+ 261 (1.0%) 261 (1.0%) ARCH483_Tbx3/Tbx2 + ARCH647_Smad2/Smad8_C8H4389_Sp.def 190 (0.7%) 190 (0.7%) ARCH438_Spdef + ARCH64ARSH1582/SFH166Fh156d5/SJ/F.+ ARCH438_Spdef + 186 (0.7%) 186 (0.7%) ARCH1627_Xbp1 170 (0.7%) 170 (0.7%) ARCH438_Spdef + ARCH449_POL00@RCbtte08_QATA2Q ARCH438_Spdef + 166 (0.6%) 166 (0.6%) ARCH895H498n4/50811 166 (0.6%) 166 (0.6%) ARCH895_Foxn4/Foxn1 + ARCH647_Smad2/SARAGH1508ac9ASA2Q 162 (0.6%) 162 (0.6%) ARCH483_Tbx3/Tbx2 + ARQR12498195ATA29 158 (0.6%) ARCH449_POL009.1_DCE_S_II__... + 158 (0.6%) ARCH495_FOXTHFOX11 ARCH438_Spdef + 156 (0.6%) 156 (0.6%) ARQ#104981.6ATA29 3 motifs 155 (0.6%) 155 (0.6%) ARCH438_Spdef + ARCH647_Smad2RSH4895_5PX9149FSX.P.1 154 (0.6%) 154 (0.6%) ARCH895_Foxn4/Foxn1 + ARQH124981.65 ATA29 153 (0.6%) 153 (0.6%) ARCH483_Tbx3/Tbx2 + ARCH449_POL009.1 APCH438LSpdef 150 (0.6%) 150 (0.6%) ARCH438_Spdef + ARQH1049816ATA29 ARCH483_Tbx3/Tbx2 + 149 (0.6%) 149 (0.6%) ARCH449_PQk@9483D\$\f\x2.+ 149 (0.6%) 149 (0.6%) ARCH438_Spdef + ARCH8915 OFFIDER 109/1904/114 145 (0.6%) 145 (0.6%) ARCH449_POL009.1_DCE_S_II__... + ARCH647_Smad2/ShRadd1508a60/SA2Q 145 (0.6%) 145 (0.6%) ARCH483_Tbx3/Tbx2 + ARCH647_Smad2RSHAQ95_5AX049FSX.01 ARCH449_POL009.1_DCE_S_II__... + 145 (0.6%) 145 (0.6%) ARCH495_FT0X37/F5X201 139 (0.5%) 139 (0.5%) ARCH449_POL009.1_DCE_S_II__... + ARCH438_Spdef 133 (0.5%) ARCH647_Smad2/Smad3_Smad9/S... + 133 (0.5%) ARCH647_Smad2RSH&95_5pmad9F9xn1 132 (0.5%) 132 (0.5%) ARCH449_POL009.1_DCE_S_II__... + ARQH104981.6ATA29 129 (0.5%) 129 (0.5%) ARCH647_Smad2/Smad3_Smad9/S... + ARRHH408_9ATA20 125 (0.5%) 125 (0.5%) ARCH1408_GATA20 + ARCH581_Elf34民位/巨459Errg/F.+ 124 (0.5%) 124 (0.5%) ARCH449_POL009.1_DCE_S_II__... + ARCHAROHTIQ27TIXL2P1 124 (0.5%) 124 (0.5%) ARCH438_Spdef + ARCH449_POL009.1ABCE1\$27LXbp1 122 (0.5%) 122 (0.5%) ARCH438_Spdef + ARCH1627_Xbp1 10 20 30 0 10 30 20 % of peaks

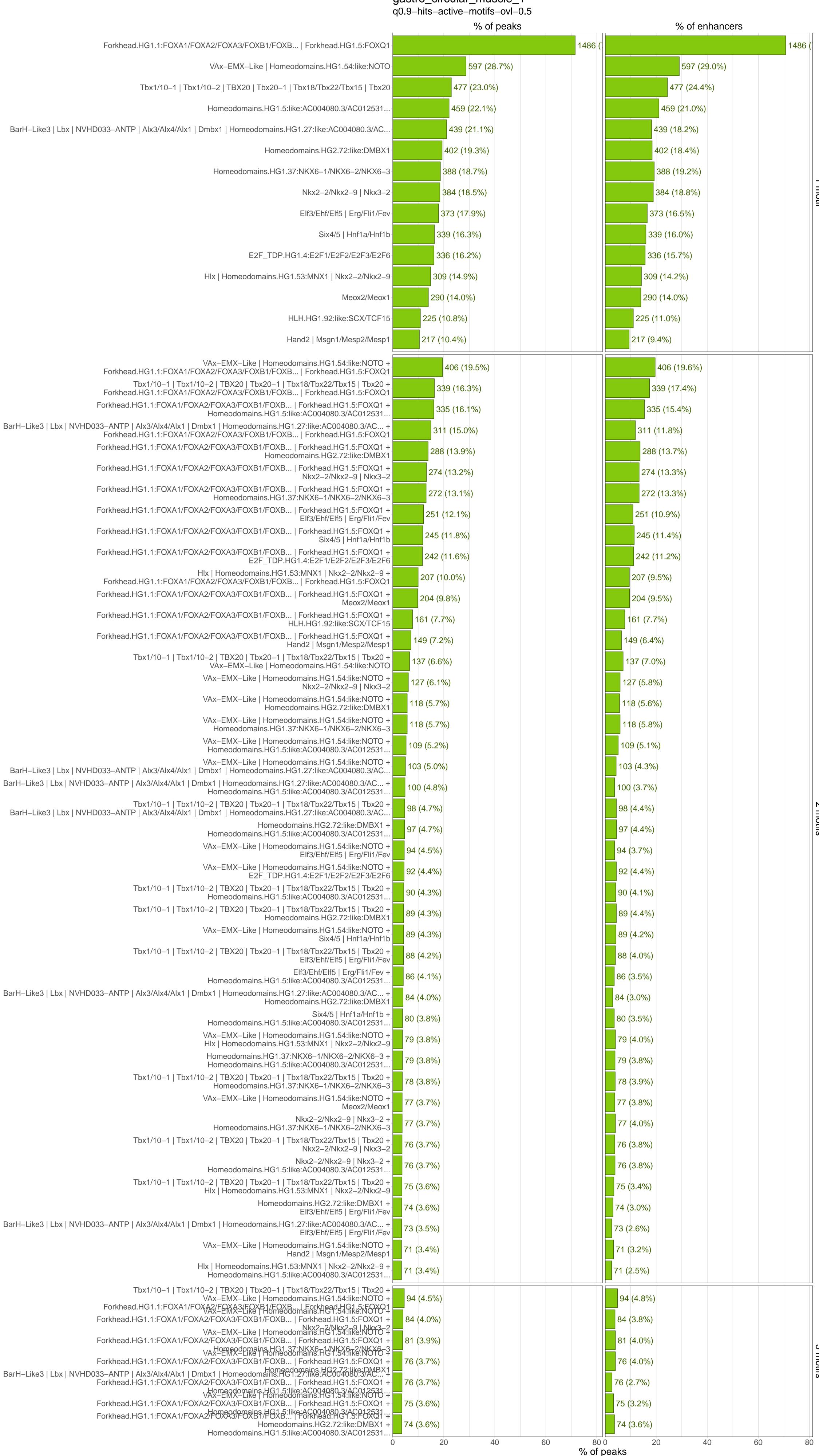
EMS q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 18587 18587 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 9294 (36.7%) 9294 (36.7%) Gsc2/Gsc//Obox1/Obox7/Obox2 7439 (29.4%) 7439 (29.4%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO 5616 (22.2%) 5616 (22.2%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev-4937 (19.5%) 4937 (19.5%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... 1 motif Hand2 | Msgn1/Mesp2/Mesp1 3830 (15.1%) 3830 (15.1%) Nkx-2.2a | Tgif1/Tgif2 3651 (14.4%) 3651 (14.4%) 3358 (13.3%) 3358 (13.3%) Six4/5 | Hnf1a/Hnf1b 3292 (13.0%) 3292 (13.0%) Tbx5/Tbx4 3168 (12.5%) 3168 (12.5%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... 2723 (10.8%) 2723 (10.8%) zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N... Gsc2/Gsc//Obox1/Obox7/Obox2 + 6818 (26.9%) 6818 (26.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 5232 (20.7%) 5232 (20.7%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 3988 (15.8%) 3988 (15.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 3614 (14.3%) 3614 (14.3%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:.. Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 2809 (11.1%) 2809 (11.1%) Hand2 | Msgn1/Mesp2/Mesp1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 2654 (10.5%) 2654 (10.5%) Nkx-2.2a | Tgif1/Tgif2 Gsc2/Gsc//Obox1/Obox7/Obox2 + 2617 (10.3%) 2617 (10.3%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 2449 (9.7%) 2449 (9.7%) Six4/5 | Hnf1a/Hnf1b Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 2425 (9.6%) 2425 (9.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 2229 (8.8%) 2229 (8.8%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC.. Gsc2/Gsc//Obox1/Obox7/Obox2 + 2028 (8.0%) 2028 (8.0%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 1973 (7.8%) 1973 (7.8%) zf-C4 Nuclear receptors.HG1.25:like:NR2F1/N.. Gsc2/Gsc//Obox1/Obox7/Obox2 + 1726 (6.8%) 1726 (6.8%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:.. Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 1588 (6.3%) 1588 (6.3%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Gsc2/Gsc//Obox1/Obox7/Obox2 + 1380 (5.5%) 1380 (5.5%) Nkx-2.2a | Tgif1/Tgif2 Gsc2/Gsc//Obox1/Obox7/Obox2 + 1360 (5.4%) 1360 (5.4%) Hand2 | Msgn1/Mesp2/Mesp1 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 1334 (5.3%) 1334 (5.3%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:.. Gsc2/Gsc//Obox1/Obox7/Obox2 + 1305 (5.2%) 1305 (5.2%) Six4/5 | Hnf1a/Hnf1b Gsc2/Gsc//Obox1/Obox7/Obox2 + 1215 (4.8%) 1215 (4.8%) Tbx5/Tbx4 Gsc2/Gsc//Obox1/Obox7/Obox2 + 1101 (4.4%) 1101 (4.4%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC.. Hand2 | Msgn1/Mesp2/Mesp1 + 1073 (4.2%) 1073 (4.2%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 1048 (4.1%) 1048 (4.1%) 2 Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... motifs VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 991 (3.9%) 991 (3.9%) Nkx-2.2a | Tgif1/Tgif2 Gsc2/Gsc//Obox1/Obox7/Obox2 + 953 (3.8%) 953 (3.8%) zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N... Six4/5 | Hnf1a/Hnf1b + 926 (3.7%) 926 (3.7%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 904 (3.6%) 904 (3.6%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 895 (3.5%) 895 (3.5%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 806 (3.2%) 806 (3.2%) Hand2 | Msgn1/Mesp2/Mesp1 Hand2 | Msgn1/Mesp2/Mesp1 + 760 (3.0%) 760 (3.0%) motif Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N... + 735 (2.9%) 735 (2.9%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Elf3/Ehf/Elf5 | Erg/Fli1/Fev + | 718 (2.8%) 718 (2.8%) Nkx-2.2a | Tgif1/Tgif2 Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 688 (2.7%) 688 (2.7%) Six4/5 | Hnf1a/Hnf1b Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 680 (2.7%) 680 (2.7%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 667 (2.6%) 667 (2.6%) Nkx-2.2a | Tgif1/Tgif2 Six4/5 | Hnf1a/Hnf1b + 632 (2.5%) 632 (2.5%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 628 (2.5%) 628 (2.5%) zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N... Elf3/Ehf/Elf5 | Erg/Fli1/Fev + Tbx5/Tbx4 627 (2.5%) 627 (2.5%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 609 (2.4%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 557 (2.2%) 557 (2.2%) Tbx5/Tbx4 Hand2 | Msgn1/Mesp2/Mesp1 + 546 (2.2%) 546 (2.2%) Nkx-2.2a | Tgif1/Tgif2 zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N... + 545 (2.2%) 545 (2.2%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Six4/5 | Hnf1a/Hnf1b + 542 (2.1%) 542 (2.1%) Nkx-2.2a | Tgif1/Tgif2 Hand2 | Msgn1/Mesp2/Mesp1 + 527 (2.1%) 527 (2.1%) Šix4/5 | Hnf1a/Hnf1b Hand2 | Msgn1/Mesp2/Mesp1 + 511 (2.0%) 511 (2.0%) Tbx5/Tbx4 Tbx5/Tbx4 + 482 (1.9%) 482 (1.9%) Nkx-2.2a | Tgif1/Tgif2 Gsc2/Gsc//Obox1/Obox7/Obox2 + 1829 (7.2%) 1829 (7.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + VAx-EMX-Like | Hoso20Gon/ADtook1GO154k17KO10t027Q 1455 (5.8%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 1455 (5.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOX Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 1303 (5.1%) 1303 (5.1%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TE的分产形像序。 English Files (English En 1083 (4.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 1083 (4.3%) VAx-EMX-Like | HOso20GooMaDtookt0Ob50kt1KObb0279 1029 (4.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 1029 (4.1%) Gsc2/arst2/Oblesqt/Oblesp2/blesp1 1006 (4.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 1006 (4.0%) Gsc2/Gsc//**ONDOX-12/Q10**dx**T**g016/5x2if2 975 (3.9%) 975 (3.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | ForkheaxH45G1.15f19/kQf149 959 (3.8%) 959 (3.8%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:0278501/0068720163x2.+ 916 (3.6%) 916 (3.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5TFOXA1/FOXA2/FOXA3/FOXB1/FOXB... | 789 (3.1%) Hand2 | Msgn1/Mesp2/Mesp1 + 789 (3.1%) VAx-EMX-Like | Hoso20GooMathsok1GOb50k17KObb60ZQ 783 (3.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 783 (3.1%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HGff2/Elike:AC0040/80.3/Ac0.+ 3 motifs 752 (3.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 752 (3.0%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:0278801/00687201603x2.+ 709 (2.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 709 (2.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA2/FOXAGAEOMBIE/AFTOXBEPtOFORMOEA@5:HOBE: 5:1 ROXOM.+ 701 (2.8%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 701 (2.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Fork New 24 25 6 0 M Cylif 2 665 (2.6%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 665 (2.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5TFOXXQXX4 657 (2.6%) 657 (2.6%) Six4/5 | Hnf1a/Hnf1b + Forkhead.HG1.1:FOXA1/FOXA2/FAXAEMFOXBe/FOXBeodFortalnead.GIG545likeNQTQ 622 (2.5%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 622 (2.5%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodoma@sdzl@s270ikex4000ex808086.± 591 (2.3%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 591 (2.3%) VAx-EMX-Like | Homeodlog/lehrfs=HG1 5/6/17/14/19 NFQTQ Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 564 (2.2%) 564 (2.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB.Hanfoldkindagn1661esp2061esp1 Hand2 | Msgn1/Mesp2/Mesp1 + 557 (2.2%) 557 (2.2%) Msantd4/Mypop | Myb.HG1.21FlorexthelacRH/CMIEREXXMEREXXMEREXXXXXXIFAXXBH/CFICXXBT.EREXT/AFCXXBT.EREXT/AFCXXXIFAXXXIFAXXXIII.+ zf-C4 Nuclear receptors.HG1.25:like:NR2F1/N...+ 528 (2.1%) 528 (2.1%) 524 (2.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 524 (2.1%) Elf3/ENKEH2.20rb/Teliff//Felif2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 504 (2.0%) 504 (2.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.1:FOXA1/FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.1:FOXA1/FO Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 489 (1.9%) 489 (1.9%) Nkx-2.2a | Tgif1/Tgif2 20 20 80 40 60 80 0 40 60 % of peaks



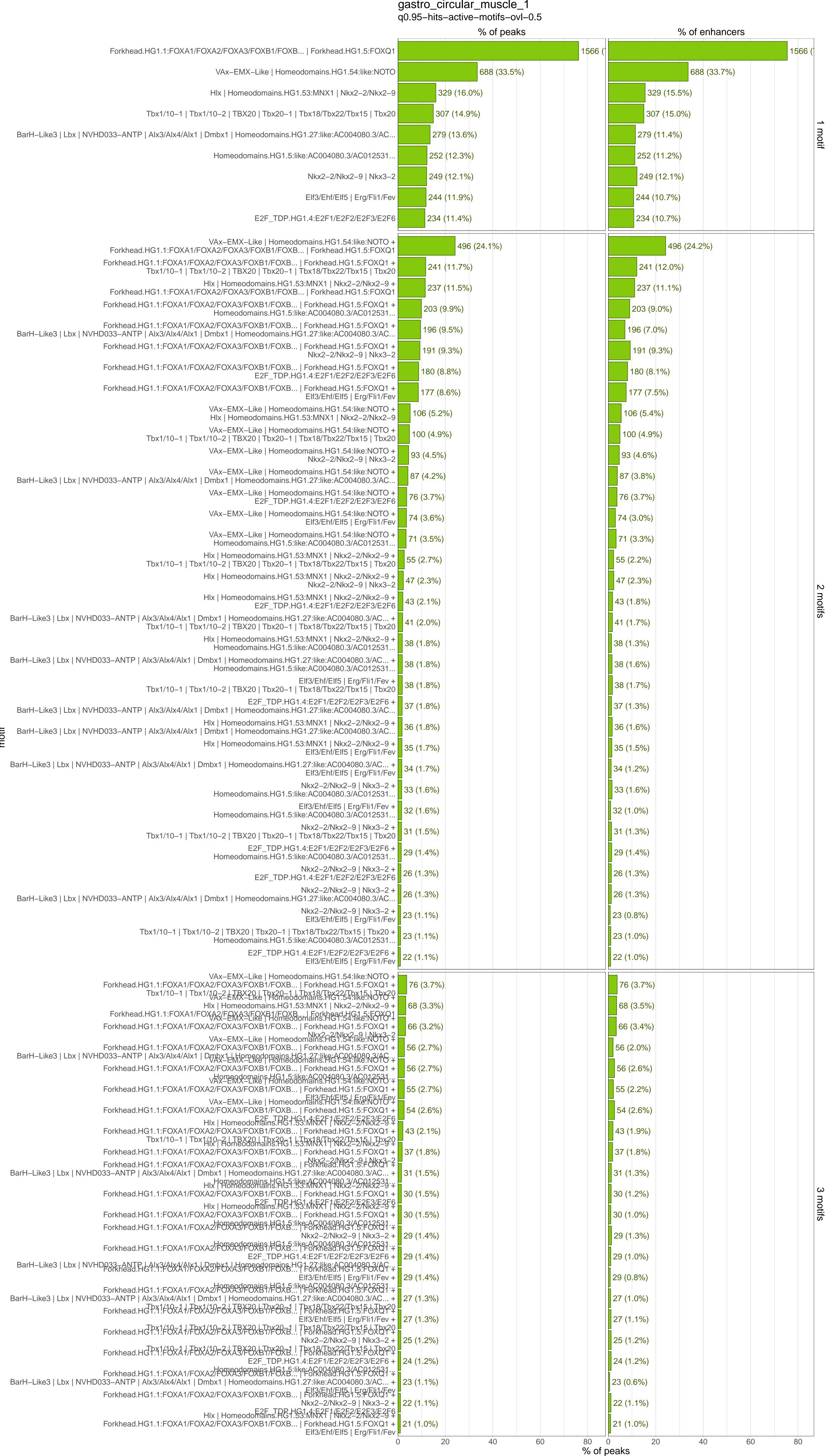
EMS_ecto_boundary q0.95-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 3870 (27.19 3870 (27.19 ARCH438_Spdef 3565 (25.0%) 3565 (25.0%) ARCH647_Smad2/Smad3_Smad9/S.. 2845 (19.9%) 2845 (19.9%) ARCH419_Yy1 motif 2797 (19.6%) 2797 (19.6%) ARCH449_POL009.1_DCE_S_II__... 2089 (14.6%) 2089 (14.6%) ARCH895_Foxn4/Foxn1 1454 (10.2%) 1454 (10.2%) ARCH1627_Xbp1 ARCH483_Tbx3/Tbx2 1433 (10.0%) 1433 (10.0%) ARCH438_Spdef + 1005 (7.0%) 1005 (7.0%) ARCH647_Smad2/Smad3_Smad9/S... ARCH419_Yy1 + 911 (6.4%) 911 (6.4%) ARCH449_POL009.1_DCE_S_II__.. ARCH438_Spdef + 803 (5.6%) 803 (5.6%) ARCH419_Yy1 ARCH438_Spdef + 782 (5.5%) 782 (5.5%) ARCH449_POL009.1_DCE_S_II__. ARCH647_Smad2/Smad3_Smad9/S... + 704 (4.9%) 704 (4.9%) ARCH449_POL009.1_DCE_S_II__.. ARCH647_Smad2/Smad3_Smad9/S... + 691 (4.8%) 691 (4.8%) ARCH419_Yy1 ARCH438_Spdef + 606 (4.2%) 606 (4.2%) ARCH895_Foxn4/Foxn1 ARCH895 Foxn4/Foxn1 + 530 (3.7%) 530 (3.7%) ARCH647_Smad2/Smad3_Smad9/S... ARCH483 Tbx3/Tbx2 + 408 (2.9%) 408 (2.9%) ARCH438_Spdef ARCH438_Spdef + 393 (2.8%) 393 (2.8%) 2 motifs ARCH1627_Xbp1 ARCH1627_Xbp1 + 376 (2.6%) 376 (2.6%) ARCH647_Smad2/Smad3_Smad9/S... ARCH895 Foxn4/Foxn1 + 366 (2.6%) 366 (2.6%) ARCH419_Yy1 ARCH483 Tbx3/Tbx2 + 355 (2.5%) 355 (2.5%) ARCH647_Smad2/Smad3_Smad9/S.. ARCH895_Foxn4/Foxn1 + 344 (2.4%) 344 (2.4%) ARCH449_POL009.1_DCE_S_II__... ARCH1627_Xbp1 + 286 (2.0%) 286 (2.0%) ARCH419_Yy1 ARCH1627 Xbp1 + 284 (2.0%) 284 (2.0%) ARCH449_POL009.1_DCE_S_II__.. ARCH483 Tbx3/Tbx2 + 283 (2.0%) 283 (2.0%) ARCH419_Yy1 ARCH483_Tbx3/Tbx2 + 283 (2.0%) 283 (2.0%) ARCH449_POL009.1_DCE_S_II__.. ARCH483 Tbx3/Tbx2 + 220 (1.5%) 220 (1.5%) ARCH895_Foxn4/Foxn1 ARCH895_Foxn4/Foxn1 + 192 (1.3%) 192 (1.3%) ARCH1627_Xbp1 ARCH483_Tbx3/Tbx2 + 155 (1.1%) 155 (1.1%) ARCH1627_Xbp1 ARCH438 Spdef + 269 (1.9%) 269 (1.9%) ARCH419_Yy1 + AR 647449m 80249 09a d 3 D Sta a 89.15...+ 221 (1.5%) 221 (1.5%) ARCH419_Yy1 + ARCH449_POL009RCP458_Spleef.+ 215 (1.5%) 215 (1.5%) ARCH647_Smad2/Smad3_Smad9/S... + ARCH449_POL000RCPASS_Spleef.+ 209 (1.5%) 209 (1.5%) ARCH647_Smad2/Smad3_Smad9/S... + ARCHRA384\$9d&14 154 (1.1%) ARCH895_Foxn4/Foxn1 + 154 (1.1%) ARCH647_Smark2/\$pagg3_\$xgapl9\\$.+ 115 (0.8%) ARCH438_Spdef + 115 (0.8%) ARCH647_SAMREDE/SOMBARTOX SAMPRODE/S.+ 114 (0.8%) ARCH419 Yy1 + 114 (0.8%) ARCH449_POL009RCP458_Spleef.+ 106 (0.7%) 106 (0.7%) ARCH895_Foxn4/Foxn1 + ARCHRA384\$9d&14 105 (0.7%) ARCH895_Foxn4/Foxn1 + 105 (0.7%) ARCH449_POL0@RCHD@EZSXHp1.+ 105 (0.7%) 105 (0.7%) ARCH419_Yy1 + ARCH449_POL00@RCPQ58_Splitef.+ ARCH1627_Xbp1 + 104 (0.7%) 104 (0.7%) ARCH647_Smark2%\$page3T\$x3apl9\2.+ 96 (0.7%) ARCH419_Yy1 + 96 (0.7%) ARCH449_RRCLA895_E&F4/\$0\ln1.+ 89 (0.6%) 89 (0.6%) ARCH647_Smad2/Smad3_Smad9/S... + ARCH449_PQROP483DCFx39Tbx2.+ ARCH438_Spdef + 85 (0.6%) 85 (0.6%) ARCH449_PQk@9483DQ6x37Tbx2.+ ARCH438_Spdef + 83 (0.6%) 83 (0.6%) ARCH895 #B&H4#F8xMy1 ARCH647_Smad2/Smad3_Smad9/S... + 82 (0.6%) 82 (0.6%) ARCAR62741XbpYy1 ARCH647_Smad2/Smad3_Smad9/S... + 79 (0.6%) 79 (0.6%) ယ ARCH449_POLOQRCHDGE7SXHp1.+ ARCH647_Smad2/Smad3_Smad9/S... + 78 (0.5%) 78 (0.5%) ARCHRA364\$6d&614 ARCH1627 Xbp1 + 73 (0.5%) 73 (0.5%) ARCHRAGH4\$9dev1 ARCH1627_Xbp1 + 71 (0.5%) 71 (0.5%) ARCH449_PQR009483DQFx37Hx2.+ 67 (0.5%) ARCH647_Smad2/Smad3_Smad9/S... + 67 (0.5%) ARCH489RFbx4/19bx2/1 67 (0.5%) 67 (0.5%) ARCH647_Smad2/Smad3_Smad9/S... + ARCH449_PQR009483DCFx37Tbx2.+ ARCH438_Spdef + 66 (0.5%) 66 (0.5%) ARCHA93_FOXINTEX211 63 (0.4%) 63 (0.4%) ARCH895 Foxn4/Foxn1 + ARCH647_SAIRED EN 8978 a #3 x SAIV 120 80 15 .+ ARCH1627_Xbp1 + 61 (0.4%) 61 (0.4%) ARCH647_Smark205ppagd3T6x0apl9x2.+ 57 (0.4%) ARCH438_Spdef + 57 (0.4%) ARROH3823pX6p1 ARCH895_Foxn4/Foxn1 + 54 (0.4%) 54 (0.4%) ARCHARCHTIQ27TIXL2P1 51 (0.4%) ARCH895_Foxn4/Foxn1 + 51 (0.4%) ARCH488RFbx4/19bx2/1 ARCH1627_Xbp1 + 42 (0.3%) 42 (0.3%) ARCH647_Smark205pased3T6x3apl9x3.+ ARCH895_Foxn4/Foxn1 + 41 (0.3%) 41 (0.3%) ARCH449_RRCH0005_F0061.+ 35 (0.2%) ARCH1627_Xbp1 + 35 (0.2%) ARCH449_RRCL9895_E88F4/\$0\ln1.+ 34 (0.2%) ARCH1627_Xbp1 + 34 (0.2%) ARCH488RFBH3/190X2/1 ARCH1627_Xbp1 + 30 (0.2%) 30 (0.2%) ARCH488RFBH3/190x2/1 29 (0.2%) ARCH1627_Xbp1 + 29 (0.2%) ARCH449_PQk@9483D\$5x37tbx2.+ ARCH895_Foxn4/Foxn1 + 25 (0.2%) 25 (0.2%) ARCH43823paep1 ARCH647_Smad2/Smad3_Smad9/S... + 81 (0.6%) 81 (0.6%) A RACRICATION 95 photolet + ARCH449_RRCH895_F86F4750Hn1+ 40 (0.3%) 40 (0.3%) ARCH483C11433/T16x2 + ARCH449_POL00ARCP458_Spldef.+ 32 (0.2%) 32 (0.2%) ARATA 6479X 8 pt 1 + AR**GR647**4**45**9n**262**4**9**69263**DST**a**8**94**5...**+ 31 (0.2%) 31 (0.2%) A RACRICATIVE 1 95 project + ARCH449_RRCH895_F364750Hn1.+ 29 (0.2%) 29 (0.2%) ARCH647_Smad2/1807#83_\$110x8/97/\$x2 + ARCH449_POL00ARCARS_Spleef.+ 26 (0.2%) 26 (0.2%) ARCH647_Smad2/Smart3H31881d968ef + ARCH449_POLOQRCHDGE75Xbp1.+ 26 (0.2%) 26 (0.2%) motifs ARCH898766441/\$50Xx1 + | ARCH647459n8021/999ad3DSrFa8915....+ 25 (0.2%) 25 (0.2%) ARCH4939T6x2 + ARCH449_RRCH0095_F06F4/F0611.+ 24 (0.2%) 24 (0.2%) ARCH483CT6439T6x2 + AROR647449m2021999ad3DSrFa8915...+ 24 (0.2%) 24 (0.2%) ARCH483CT6439T6x2 + ARCH449_POL00@RCP458_Spleef.+ 23 (0.2%) 23 (0.2%) ARCH647_Smad2/Smart3H3188048/Sef + ARCH895_ABQHAHOXMY4 23 (0.2%) 23 (0.2%) ARCH647_Smad2x87npxx83_\$110xx8/\$7/\$x2 + ARCHRASB4\$Bd&y1 21 (0.1%) 21 (0.1%) ARCH14327_Sydpet + ARCH647_Smad2/\$\r@\d36\rad\%\\$.+ 21 (0.1%) 21 (0.1%) ARCH647_Smad2/Smad3_Smad9/S... + ARCH449_POL009.1_DCE_S_II__..._0 20 30 0 30 10 10 20 % of peaks



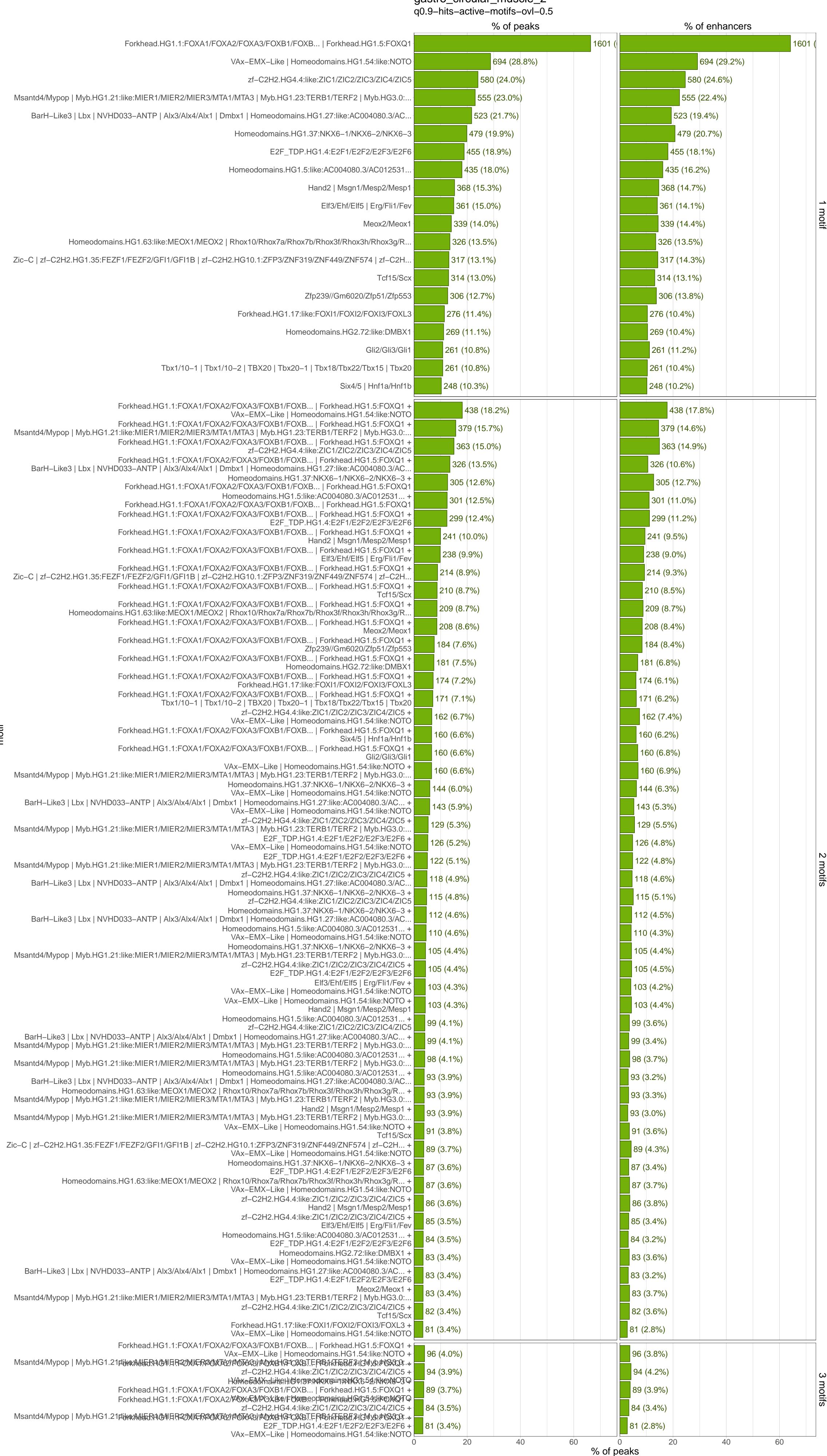




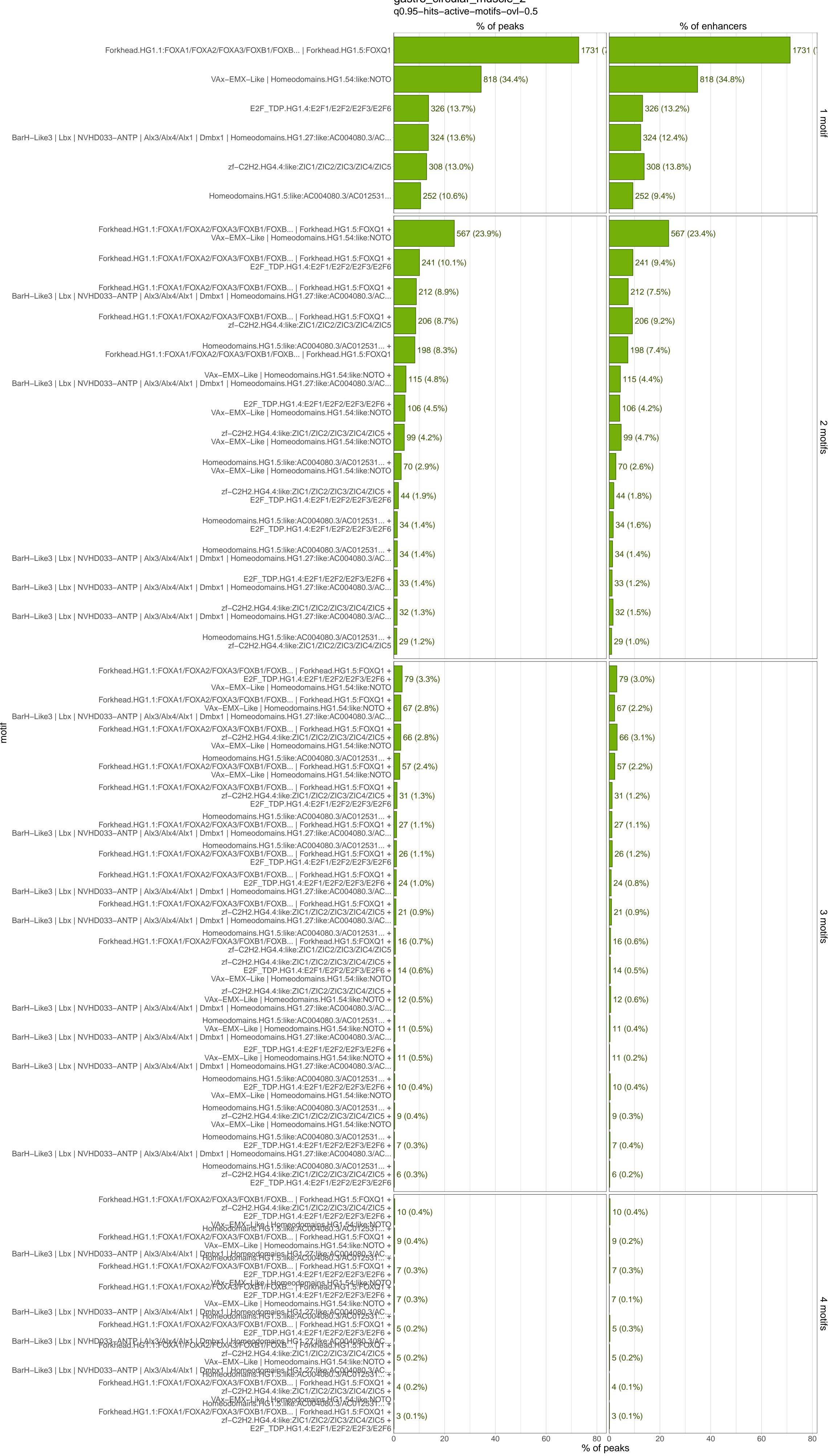
gastro_circular_muscle_1



gastro_circular_muscle_2



gastro_circular_muscle_2 q0.95-hits-active-motifs-ovl-0.5



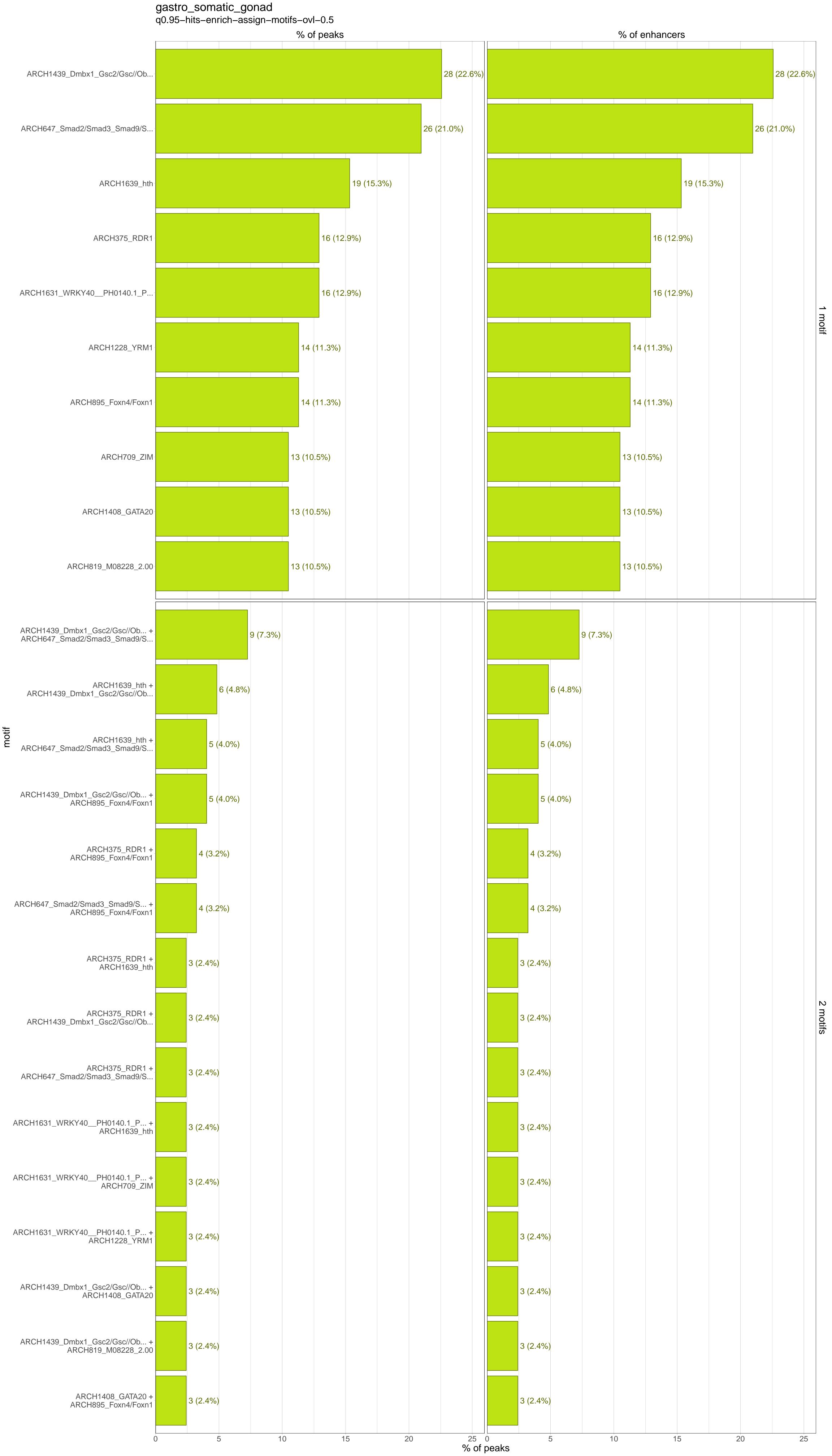
gastro_parietal_muscle



gastro_parietal_muscle q0.95-hits-active-motifs-ovl-0.5 % of peaks 845 (43.3%) 411 (21.0%) HIX 356 (18.2%) 290 (14.8%)

% of enhancers 1404 (7 1404 (Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 845 (45.4%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO 411 (20.4%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 356 (17.0%) 1 motif 290 (12.9%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... Elf3/Ehf/Elf5 | Erg/Fli1/Fev 268 (13.7%) 268 (12.4%) 264 (13.5%) 264 (12.2%) Homeodomains.HG1.5:like:AC004080.3/AC012531... 231 (11.8%) 231 (11.7%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 214 (11.0%) 214 (11.0%) Nkx2-2/Nkx2-9 | Nkx3-2 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 587 (30.1%) 587 (30.7%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 288 (14.7%) 288 (13.7%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 232 (11.9%) 232 (10.4%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 212 (10.9%) 212 (9.6%) Homeodomains.HG1.5:like:AC004080.3/AC012531... BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 200 (10.2%) 200 (7.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 196 (10.0%) 196 (8.6%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 171 (8.8%) 171 (8.5%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 157 (8.0%) 157 (8.2%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 157 (8.0%) 157 (7.6%) Nkx2-2/Nkx2-9 | Nkx3-2 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 151 (7.7%) 151 (7.9%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 115 (5.9%) 115 (5.5%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 101 (5.2%) 101 (4.9%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 100 (5.1%) 100 (5.5%) E2F TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 99 (5.1%) 99 (5.4%) Nkx2-2/Nkx2-9 | Nkx3-2 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 93 (4.8%) 93 (4.8%) Homeodomains. HG1.5: like: AC004080.3/AC012531. Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 79 (4.0%) 79 (3.4%) 2 motifs 73 (3.7%) 73 (3.7%) Homeodomains.HG1.5:like:AC004080.3/AC012531. 61 (3.1%) 61 (2.3%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 57 (2.9%) 57 (2.0%) 48 (2.5%) 48 (1.9%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 43 (1.7%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 43 (2.2%) 43 (1.7%) Homeodomains.HG1.5:like:AC004080.3/AC012531.. Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 43 (2.2%) 43 (1.7%) Homeodomains.HG1.5:like:AC004080.3/AC012531. Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 42 (2.2%) 42 (2.0%) Nkx2-2/Nkx2-9 | Nkx3-2 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 42 (2.2%) 42 (1.9%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 41 (2.1%) 41 (1.9%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 40 (2.0%) 40 (1.4%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev BarH–Like3 | Lbx | NVHD033–ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 39 (2.0%) 39 (1.4%) 39 (2.0%) 39 (2.1%) Nkx2-2/Nkx2-9 | Nkx3-2 BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 37 (1.9%) 37 (1.5%) Homeodomains.HG1.5:like:AC004080.3/AC012531... E2F TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 + 33 (1.7%) 33 (1.6%) Homeodomains.HG1.5:like:AC004080.3/AC012531... Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 30 (1.5%) 30 (1.4%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 Nkx2-2/Nkx2-9 | Nkx3-2 + 23 (1.2%) 23 (1.3%) E2F TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 98 (5.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 98 (5.0%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTの以上 97 (5.0%) 97 (4.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 78 (4.0%) 78 (3.1%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FQXB1/FQXB0mafinskheadst49ike.NFOXQ1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 75 (3.8%) 75 (4.0%) VAX-EMX-Like | Homeodom & MS 2 H & N 5 42 H Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 70 (3.6%) 70 (3.3%) VAX-EMX-Like | Homeodon 目 135年 154:原设行的 5年 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 68 (3.5%) 68 (3.3%) VHRDEARSONRIUS HIGHES-ÜKA-AGRO468053/AGROASFO.+ Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 65 (3.3%) 65 (3.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXBF/FOXBHG1F6F6F6F64/F2G4/52F6XF2F6 55 (2.8%) 55 (2.7%) Forkhead.HG1.1:FOXA1/FOXA2/POXPS/POXIB4/HG1/5:LIKE-ARRE10896/ASP03561+ 54 (2.1%) 54 (2.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | FJ操作域后增加的原本 51 (2.2%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 51 (2.6%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC.HIX Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 41 (1.6%) 41 (2.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQHIX 37 (1.9%) 37 (1.5%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev + Forkhead.HG1.1:FOXA1/FOXA2/POXPS/POXIB9/HGX5:!!KG+ARRP24089G1/AS:POXFQ1.+ 34 (1.7%) 34 (1.3%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeo & Faith B.PH & P.2-7-1 Re P.A & P.2-7-1 Re 33 (1.7%) 33 (1.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 3 motifs Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | 局保悟性的原始 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 33 (1.7%) 33 (1.2%) VH2DEAGQUERIES HIGHESUKAAAGQQ4QQC34/AGQQQ5FO.+ Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 32 (1.6%) 32 (1.4%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC.HIX Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 31 (1.6%) 31 (1.2%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | DmbxPMq0f20ainfalf61-fdik27-1920-4080-4080-308-31.+ 29 (1.5%) 29 (1.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 27 (1.2%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 27 (1.4%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | FORKHEAD! NEW 1-5. FOKE 1-2. Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 26 (1.3%) 26 (1.2%) VAX-EMX-LIKEFHTPREGGAAIRS.FICESTRIKES.NOTOFF 25 (1.5%) HIx + 25 (1.3%) 25 (0.9%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 25 (1.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Fd保持线点的方法位列中 HIx + 25 (1.3%) 25 (1.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | FORKHEAd! NG4-5! FOKO31-2 25 (1.2%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 + 25 (1.3%) Forkhead.HG1.1:FOXA1/FOXA2/POXPS/POXIB9/HGXB:!!kg=86698964959649591-+ Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 24 (1.2%) 24 (1.1%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeoconfiaih9.PHd 9.274.Ifk2.FA/CF0440/E2.F6 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 23 (1.2%) 23 (1.2%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmb\\ | Homeodomains.HG1.57:M\\ X100\408023\\ 2.-9 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 23 (1.2%) 23 (0.7%) VXX LETOINE PROMISION BOOK AND THE PROMISION OF THE PROMISE PR HIx + 23 (1.2%) 23 (0.9%) VAx-EMX-Like | Homeodon号指导中语写点的中语中 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 21 (1.1%) 21 (0.9%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO+ Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 4 motifs 21 (1.1%) 21 (0.9%) HVAXHenneodareainsoffelosamans. Honksatirankosta + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQHIX 21 (1.1%) 21 (0.8%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev 20 40 80 0 40 60 20 60 % of peaks

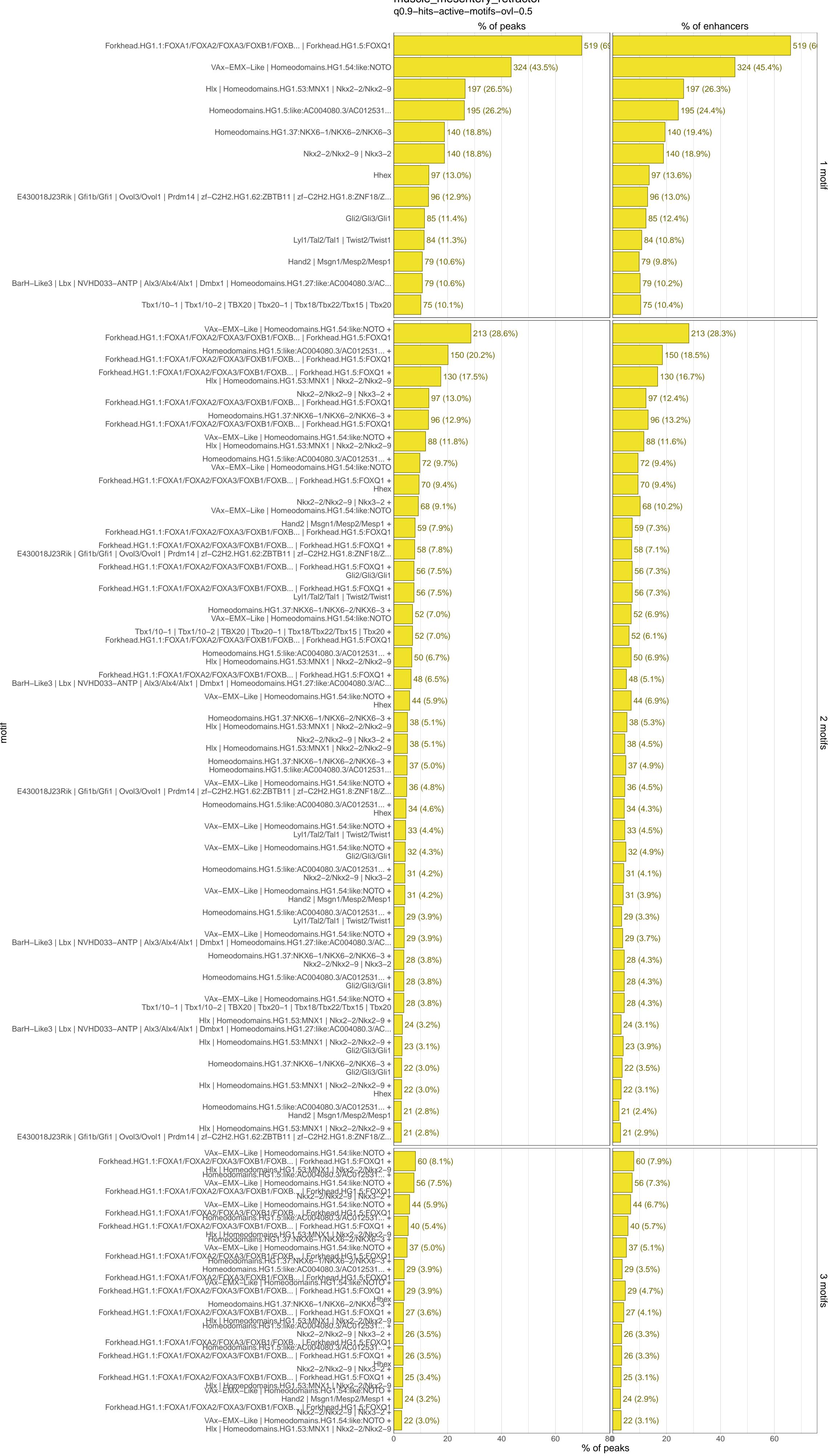
gastro_IRF1_2 q0.95-hits-active-motifs-ovl-0.5 % of peaks % of enhancers IRF1-2c | IRF.HG1.1:IRF1/IRF2/IRF3/IRF4/IRF5/IRF6/IRF... | Irf7/Irf4/Irf8/Irf5/Irf9/Irf6/Irf3 119 (43. 119 (43. 108 (39.4%) 108 (39.4%) Elf3/Ehf/Elf5 | Ets2/Ets1/Etv2 | Gabpa | Spdef 1 motif Elf3/Ehf/Elf5 | Erg/Fli1/Fev 56 (20.4%) 56 (20.4%) 55 (20.1%) Doublesex_DM.HG1.18:like:DMRT3 55 (20.1%) IRF1-2c | IRF.HG1.1:IRF1/IRF2/IRF3/IRF4/IRF5/IRF6/IRF... | Irf7/Irf4/Irf8/Irf5/Irf9/Irf6/Irf3 + Elf3/Ehf/Elf5 | Ets2/Ets1/Etv2 | Gabpa | Spdef 19 (6.9%) 19 (6.9%) Elf3/Ehf/Elf5 | Ets2/Ets1/Etv2 | Gabpa | Spdef + Doublesex_DM.HG1.18:like:DMRT3 14 (5.1%) 14 (5.1%) Elf3/Ehf/Elf5 | Ets2/Ets1/Etv2 | Gabpa | Spdef + Elf3/Ehf/Elf5 | Erg/Fli1/Fev 14 (5.1%) 14 (5.1%) IRF1-2c | IRF.HG1.1:IRF1/IRF2/IRF3/IRF4/IRF5/IRF6/IRF... | Irf7/Irf4/Irf8/Irf5/Irf9/Irf6/Irf3 + Elf3/Ehf/Elf5 | Erg/Fli1/Fev 11 (4.0%) 11 (4.0%) IRF1-2c | IRF.HG1.1:IRF1/IRF2/IRF3/IRF4/IRF5/IRF6/IRF... | Irf7/Irf4/Irf8/Irf5/Irf9/Irf6/Irf3 + Doublesex_DM.HG1.18:like:DMRT3 6 (2.2%) 6 (2.2%) Doublesex_DM.HG1.18:like:DMRT3 + 6 (2.2%) 6 (2.2%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev 3 motifs Elf3/Ehf/Elf5 | Ets2/Ets1/Etv2 | Gabpa | Spdef + Doublesex_DM.HG1.18:like:DMRT3 + Elf3/Ehf/Elf5 | Erg/Fli1/Fev 3 (1.1%) 3 (1.1%) 30 10 20 40 10 20 30 40 % of peaks



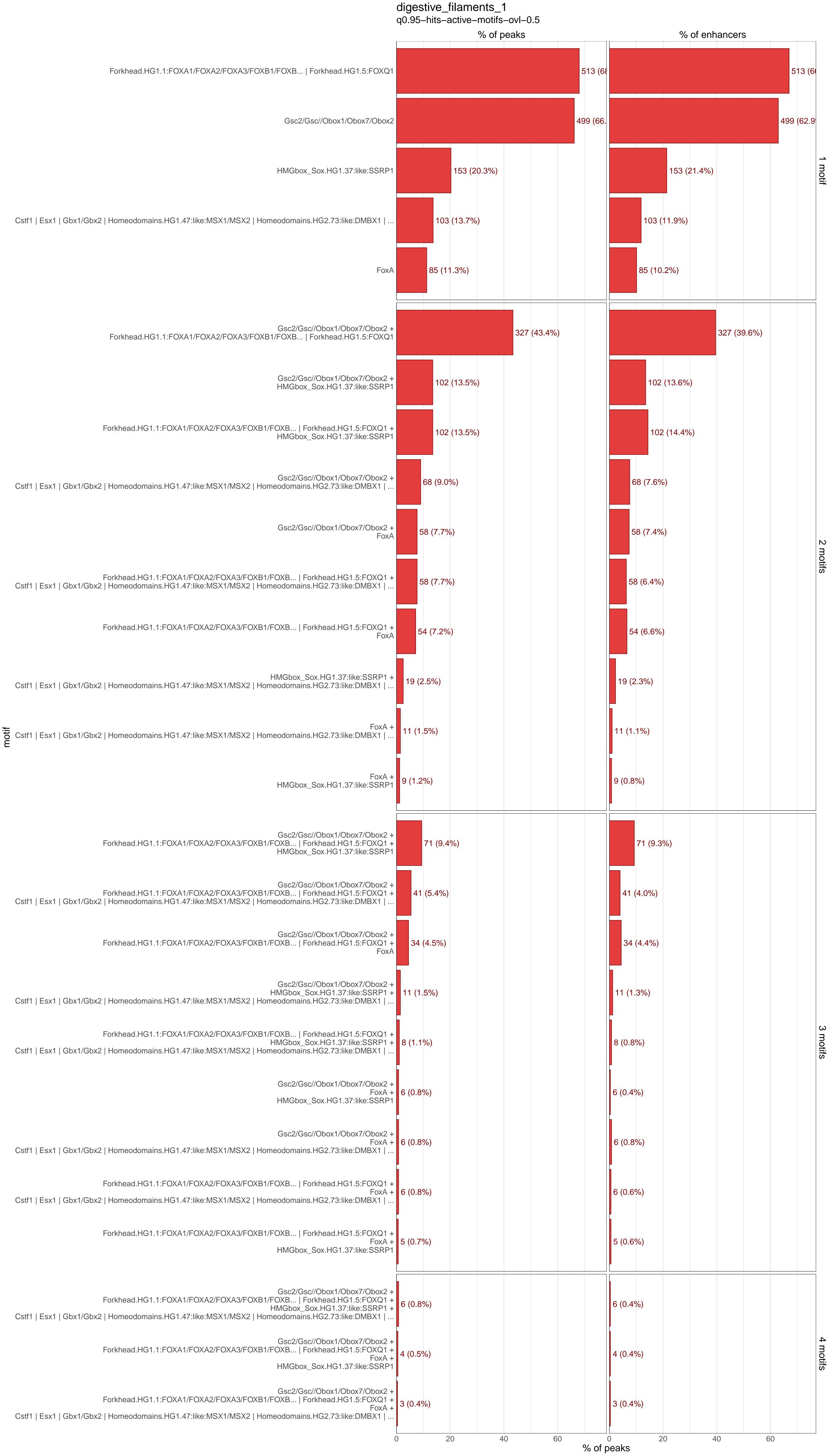
gastro_somatic_gonad q0.9-hits-active-motifs-ovl-0.5



muscle_mesentery_retractor q0.9-hits-active-motifs-ovl-0.5 % of peaks



digestive_filaments_1 q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 505 (6 505 (6 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 499 (62. Gsc2/Gsc//Obox1/Obox7/Obox2 499 (65 163 (18.8%) 163 (21.3%) Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... 151 (18.6%) 151 (19.7%) FoxA 144 (20.5%) 144 (18.8%) HMGbox_Sox.HG1.37:like:SSRP1 107 (14.0%) 107 (14.0%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB.. 104 (12.9%) 104 (13.6%) Homeodomains.HG1.24:like:HHEX/LBX1/LBX2/NKX... 1 motif 97 (12.6%) 97 (13.4%) Dmrt2 96 (13.6%) Klf1/Klf4/Klf2 | Snai1 | zf-C2H2.HG1.57:like:AC008758.1/AC008770.2/A... | Zfp536/Zfp13/Zfp775/Zfp... 96 (12.5%) 94 (12.3%) 94 (11.9%) Cebpd/Cebpe/Cebpa/Cebpb 87 (11.3%) 87 (13.6%) Homeodomains.HG2.3:like:AC025287.4/ALX1/ALX... 83 (10.6%) Homeodomains.HG2.76:like:DMBX1 83 (10.8%) 81 (10.6%) 81 (11.3%) NvSox1 | NvSoxB1 Msantd2 | Rcor1/Rcor2/Rcor3 79 (10.3%) 79 (11.9%) 78 (10.4%) 78 (10.2%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 78 (9.4%) 78 (10.2%) Rfx4 Gsc2/Gsc//Obox1/Obox7/Obox2 + 322 (42.0%) 322 (38.4%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Gsc2/Gsc//Obox1/Obox7/Obox2 + 108 (12.5%) 108 (14.1%) Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... FoxA + 106 (13.8%) 106 (13.2%) Gsc2/Gsc//Obox1/Obox7/Obox2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... 99 (12.9%) 99 (11.1%) 96 (12.5%) 96 (11.7%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Gsc2/Gsc//Obox1/Obox7/Obox2 + 94 (12.7%) 94 (12.3%) HMGbox Sox.HG1.37:like:SSRP1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 93 (12.1%) 93 (13.2%) HMGbox_Sox.HG1.37:like:SSRP1 Gsc2/Gsc//Obox1/Obox7/Obox2 + 73 (9.5%) 73 (9.0%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB.. Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 68 (8.9%) 68 (9.4%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... Gsc2/Gsc//Obox1/Obox7/Obox2 + 66 (8.6%) 66 (8.6%) Cebpd/Cebpe/Cebpa/Cebpb Gsc2/Gsc//Obox1/Obox7/Obox2 + 65 (8.5%) 65 (8.8%) Klf1/Klf4/Klf2 | Snai1 | zf-C2H2.HG1.57:like:AC008758.1/AC008770.2/A... | Zfp536/Zfp13/Zfp775/Zfp... Gsc2/Gsc//Obox1/Obox7/Obox2 + 64 (7.3%) 64 (8.3%) Homeodomains.HG1.24:like:HHEX/LBX1/LBX2/NKX... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 64 (8.3%) 64 (8.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 64 (8.3%) 64 (7.9%) Homeodomains.HG1.24:like:HHEX/LBX1/LBX2/NKX... Gsc2/Gsc//Obox1/Obox7/Obox2 + 62 (8.1%) 62 (8.1%) Homeodomains.HG2.76:like:DMBX1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 60 (7.8%) 60 (7.3%) Cebpd/Cebpe/Cebpa/Cebpb Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 58 (7.6%) 58 (7.5%) Klf1/Klf4/Klf2 | Snai1 | zf-C2H2.HG1.57:like:AC008758.1/AC008770.2/A... | Zfp536/Zfp13/Zfp775/Zfp... Gsc2/Gsc//Obox1/Obox7/Obox2 + 57 (7.4%) 57 (8.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 57 (7.4%) 57 (7.3%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 Gsc2/Gsc//Obox1/Obox7/Obox2 + 56 (7.3%) 56 (7.3%) NvSox1 | NvSoxB1 **N** motifs Gsc2/Gsc//Obox1/Obox7/Obox2 + 55 (7.2%) 55 (8.1%) Homeodomains.HG2.3:like:AC025287.4/ALX1/ALX... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 53 (6.9%) 53 (6.5%) Homeodomains.HG2.76:like:DMBX1 Gsc2/Gsc//Obox1/Obox7/Obox2 + 51 (6.6%) 51 (6.3%) Rfx4 Gsc2/Gsc//Obox1/Obox7/Obox2 + 50 (6.5%) 50 (6.9%) Msantd2 | Rcor1/Rcor2/Rcor3 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 49 (6.4%) 49 (6.1%) NvSox1 | NvSoxB1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 49 (6.4%) 49 (7.7%) Homeodomains.HG2.3:like:AC025287.4/ALX1/ALX... Gsc2/Gsc//Obox1/Obox7/Obox2 + 47 (6.1%) 47 (5.6%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 45 (5.9%) 45 (5.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 45 (5.9%) 45 (6.7%) Msantd2 | Rcor1/Rcor2/Rcor3 35 (4.6%) 35 (3.5%) Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... HMGbox Sox.HG1.37:like:SSRP1+ 32 (3.8%) 32 (4.2%) Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... 26 (3.4%) 26 (4.2%) Dmrt2 NvSox1 | NvSoxB1 + 24 (3.3%) 24 (3.1%) HMGbox_Sox.HG1.37:like:SSRP1 23 (3.0%) 23 (2.5%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB. Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... + 23 (2.7%) Homeodomains.HG1.24:like:HHEX/LBX1/LBX2/NKX... 21 (2.7%) 21 (3.1%) HMGbox_Sox.HG1.37:like:SSRP1 NvSox1 | NvSoxB1 + 21 (2.3%) Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | HMGbox Sox.HG1.37:like:SSRP1 + 21 (2.5%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB. Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... + 21 (2.7%) Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... + 21 (2.7%) 21 (1.3%) Cebpd/Cebpe/Cebpa/Cebpb Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... + 21 (2.7%) 21 (2.7%) Msantd2 | Rcor1/Rcor2/Rcor3 Gsc2/Gsc//Obox1/Obox7/Obox2 + 67 (7.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 67 (8.7%) Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DM段為4.+ 64 (7.5%) Gsc2/Gsc//Obox1/Obox7/Obox2 + 64 (8.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FQXB/G&F/06649016179050XQ1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 63 (8.2%) 63 (8.4%) 446995c70656703701149088821 45 (5.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 45 (5.6%) Gsc2/Gsepd Gobpe Gobpe 44 (5.7%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 44 (5.6%) 41 (5.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 41 (5.3%) Honsestonsion HG276 History Children Honsestons Honsestons HG276 History Children HG276 His 38 (5.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 38 (5.0%) Gsc2/Gsc//Obox1/Obox7/Obox2t2 38 (4.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 38 (5.0%) motifs Homeodomains.HG124:ji/e;H/FK/kB/X1/bBX2/bl/x2.+ 37 (4.8%) 37 (4.4%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 36 (4.7%) 36 (4.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + E2F_T@sd/@sd/F3F3/F7/53/F2F4 30 (3.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 30 (3.9%) Gsc2/Gsc//Obody/Soxdx/MySox2B1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 28 (3.7%) 28 (4.0%) GscMsathaddR990bBx913bBx213 26 (3.4%) 26 (3.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + Gsc2/Gsc//Obox1/Obox7/Obox2/4 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 26 (3.5%) 26 (3.4%) Homeodomains.HG2.3:like:AC025287.4/ALX1#ALX1#ALX1 21 (2.5%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 21 (2.7%) Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeogopains.HG2.73/ilike:DMBX1x2+ 21 (2.3%) 21 (2.7%) HMGbox Sox.HG1.37:like:SSRP1 + Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | 20 40 60 20 40 % of peaks



digestive_filaments_2 q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 468 (7⁻ 468 (70 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 290 (41.7%) 290 (44.1%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 258 (37.0%) 258 (39.2%) Gsc2/Gsc//Obox1/Obox7/Obox2 218 (33.1%) 218 (32.5%) FoxA 161 (24.5%) 161 (16.6%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Forkhead.HG1.13:like:FOXN1/FOXN2/FOXN3/FOXN... 141 (22.2%) 141 (21.4%) 136 (20.7%) 136 (19.2%) Six4/5 | Hnf1a/Hnf1b 1 motif 110 (16.7%) 110 (16.0%) HMGbox_Sox.HG1.37:like:SSRP1 104 (15.8%) 104 (16.3%) HMGbox_Sox.HG1.26:like:SOX8/SOX9/SOX10 95 (14.5%) 95 (14.4%) Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... 94 (14.3%) 94 (11.8%) zf-C2H2.HG2.0:like:MTF1/ZNF76/ZNF143 86 (13.0%) 86 (13.1%) Nkx2-2/Nkx2-9 85 (12.9%) 85 (13.0%) Dmrt2 73 (11.1%) 73 (9.2%) Elf3/Ehf/Elf5 | Ets2/Ets1/Etv2 | Gabpa | Spdef 67 (11.8%) 67 (10.2%) NvSox1 | NvSoxB1 67 (10.2%) 67 (11.8%) Mybl2/Myb/Mybl1 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 202 (30.7%) 202 (28.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Gsc2/Gsc//Obox1/Obox7/Obox2 + 188 (28.6%) 188 (28.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 FoxA + 147 (22.3%) 147 (21.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 113 (17.2%) 113 (17.8%) Gsc2/Gsc//Obox1/Obox7/Obox2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 109 (10.7%) 109 (16.6%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 98 (14.9%) 98 (14.8%) Forkhead.HG1.13:like:FOXN1/FOXN2/FOXN3/FOXN... Six4/5 | Hnf1a/Hnf1b + 95 (14.4%) 95 (15.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 92 (12.7%) 92 (14.0%) FoxA Gsc2/Gsc//Obox1/Obox7/Obox2 + 82 (12.5%) 82 (11.5%) FoxA HMGbox Sox.HG1.37:like:SSRP1 + 77 (11.7%) 77 (10.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 75 (11.4%) 75 (8.6%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 HMGbox Sox.HG1.26:like:SOX8/SOX9/SOX10 + 74 (11.2%) 74 (10.4%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 67 (10.2%) 67 (10.9%) Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 65 (9.9%) 65 (7.7%) zf-C2H2.HG2.0:like:MTF1/ZNF76/ZNF143 Dmrt2 + 63 (9.6%) 63 (10.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 62 (9.4%) 62 (8.3%) Forkhead.HG1.13:like:FOXN1/FOXN2/FOXN3/FOXN... Gsc2/Gsc//Obox1/Obox7/Obox2 + 61 (9.3%) 61 (6.5%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Nkx2-2/Nkx2-9+60 (9.1%) 60 (9.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Gsc2/Gsc//Obox1/Obox7/Obox2 + 59 (9.0%) 59 (7.7%) Forkhead.HG1.13:like:FOXN1/FOXN2/FOXN3/FOXN... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 59 (9.0%) 59 (8.0%) Elf3/Ehf/Elf5 | Ets2/Ets1/Etv2 | Gabpa | Spdef Gsc2/Gsc//Obox1/Obox7/Obox2 + 57 (8.7%) 57 (7.4%) Six4/5 | Hnf1a/Hnf1b Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 54 (8.2%) 54 (7.4%) Six4/5 | Hnf1a/Hnf1b FoxA + 49 (7.4%) 49 (8.0%) Forkhead.HG1.13:like:FOXN1/FOXN2/FOXN3/FOXN... Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 48 (7.3%) 48 (7.4%) 2 HMGbox_Sox.HG1.26:like:SOX8/SOX9/SOX10 motifs Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 47 (7.1%) 47 (7.7%) HMGbox_Sox.HG1.37:like:SSRP1 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 47 (7.1%) 47 (6.5%) Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | ... Nkx2-2/Nkx2-9 + 44 (6.7%) 44 (7.7%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Mybl2/Myb/Mybl1 + 44 (6.7%) 44 (7.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 FoxA + 42 (6.4%) 42 (4.7%) Six4/5 | Hnf1a/Hnf1b NvSox1 | NvSoxB1 + 41 (6.2%) 41 (7.4%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 40 (3.0%) 40 (6.1%) zf-C2H2.HG2.0:like:MTF1/ZNF76/ZNF143 Gsc2/Gsc//Obox1/Obox7/Obox2 + 39 (5.9%) 39 (4.4%) HMGbox_Sox.HG1.37:like:SSRP1 FoxA + 39 (5.9%) 39 (6.5%) HMGbox_Sox.HG1.26:like:SOX8/SOX9/SOX10 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 38 (5.8%) 38 (4.4%) Gsc2/Gsc//Obox1/Obox7/Obox2 + 38 (5.8%) 38 (5.9%) HMGbox_Sox.HG1.26:like:SOX8/SOX9/SOX10 Six4/5 | Hnf1a/Hnf1b + 38 (3.6%) 38 (5.8%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 FoxA + 37 (5.6%) 37 (6.2%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 HMGbox_Sox.HG1.37:like:SSRP1 + 36 (5.5%) 36 (6.2%) FoxA Gsc2/Gsc//Obox1/Obox7/Obox2 + 35 (5.3%) 35 (4.7%) Elf3/Ehf/Elf5 | Ets2/Ets1/Etv2 | Gabpa | Spdef Gsc2/Gsc//Obox1/Obox7/Obox2 + 35 (5.3%) 35 (5.0%) Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | Nkx2-2/Nkx2-9 + 34 (5.2%) 34 (4.7%) Gsc2/Gsc//Obox1/Obox7/Obox2 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 33 (5.0%) 33 (3.8%) Elf3/Ehf/Elf5 | Ets2/Ets1/Etv2 | Gabpa | Spdef HMGbox_Sox.HG1.37:like:SSRP1 + 33 (5.0%) 33 (4.4%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 32 (4.9%) 32 (5.3%) Mybl2/Myb/Mybl1 Gsc2/Gsc//Obox1/Obox7/Obox2 + 32 (4.9%) 32 (3.6%) zf-C2H2.HG2.0:like:MTF1/ZNF76/ZNF143 32 (4.9%) 32 (5.3%) Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like:MSX1/MSX2 | Homeodomains.HG2.73:like:DMBX1 | Forkhead.HG1.13:like:FOXN1/FOXN2/FOXN3/FOXN... + 32 (4.9%) 32 (4.1%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Nkx2-2/Nkx2-9 + 31 (4.7%) 31 (3.6%) FoxA Gsc2/Gsc//Obox1/Obox7/Obox2 + 31 (4.7%) 31 (5.6%) NvSox1 | NvSoxB1 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 81 (12.3%) 81 (12.7%) Gsc2/Gsc//Obox1/Obox7/Obox2 + Forkhead.HG1.1:FOXA1/FOXA2/FFOXA60/1500XB63:MFOXKheadx49G2/10/FCQXQ4 61 (9.3%) 61 (8.9%) FoxA + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FQXB/G\$6/10060x400HG1750FQXQ1 58 (8.8%) 58 (9.2%) FoxA + Forkhead.HG1.1:FOXA1/FOXA2/FFOXA60/JFOXB63:MFOXKheakk2G2/15/15/2494 51 (5.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 51 (7.8%) Homeodomains HQ10376866 Air SIASO - 339 MXX 843 NR 62427 10 x 242 10 x 2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 45 (6.8%) 45 (5.6%) Forkhead.HG1.13:like:502/065d/FOXM2/FOXM2.+ Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 45 (6.8%) 45 (6.2%) Forkhead.HG1.13:like: \$\frac{1}{2}\text{\$\exitex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\ 40 (6.1%) 40 (4.4%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + motifs Homeodomains.HG1.37:NKX6-1/NK%62229\KX063x\1P0\64\P\08\B\08\CX1 37 (6.2%) 37 (5.6%) Six4/5 | Hnf1a/Hnf1b + Forkhead.HG1.1:FOXA1/FOXA2/FFOXA63/FOXB3:MFoxkheadx2G2/15/15QXQ1 35 (5.3%) 35 (5.3%) Six4/5 | Hnf1a/Hnf1b + Forkhead.HG1.1:FOXA1/FOXA2/HOXA3/FOXB3:MFOXHPANX4G2/15/KQXQ4 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 35 (5.3%) 35 (5.3%) Cstf1 | Esx1 | Gbx1/Gbx2 | Homeodomains.HG1.47:like: MAXHIMAXHIMAXHIMAXIII | Gbx1/Gbx2 | TVIKING 33 (4.4%) 33 (5.0%) HMGbox Sox.HG1.37:like:SSRP1 + Forkhead.HG1.1:FOXA1/FOXA2/FFOXA60/JFOXB63:MFOXKheakk2G2/15/15/2494 HMGbox Sox.HG1.26:like:SOX8/SOX9/SOX10 + 33 (5.0%) 33 (5.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.1:FOXA1/FOXA1/FOXA3/FOXB1/FOXB... | Forkhead.HG1.1:FOXA1/FOXA1/FOXA1/FOXA1/FOXA1/FOXA1/FOXA1/FOXB... | Forkhead.HG1.1:FOXA1/ 32 (4.9%) 32 (5.9%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOX Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 32 (4.9%) 32 (4.4%) Elf3/Ehf/Elf5 | Ets2/Ets1/Etv2 | Gabpa | Spdef 20 40 20 60 40 60 80 800 % of peaks

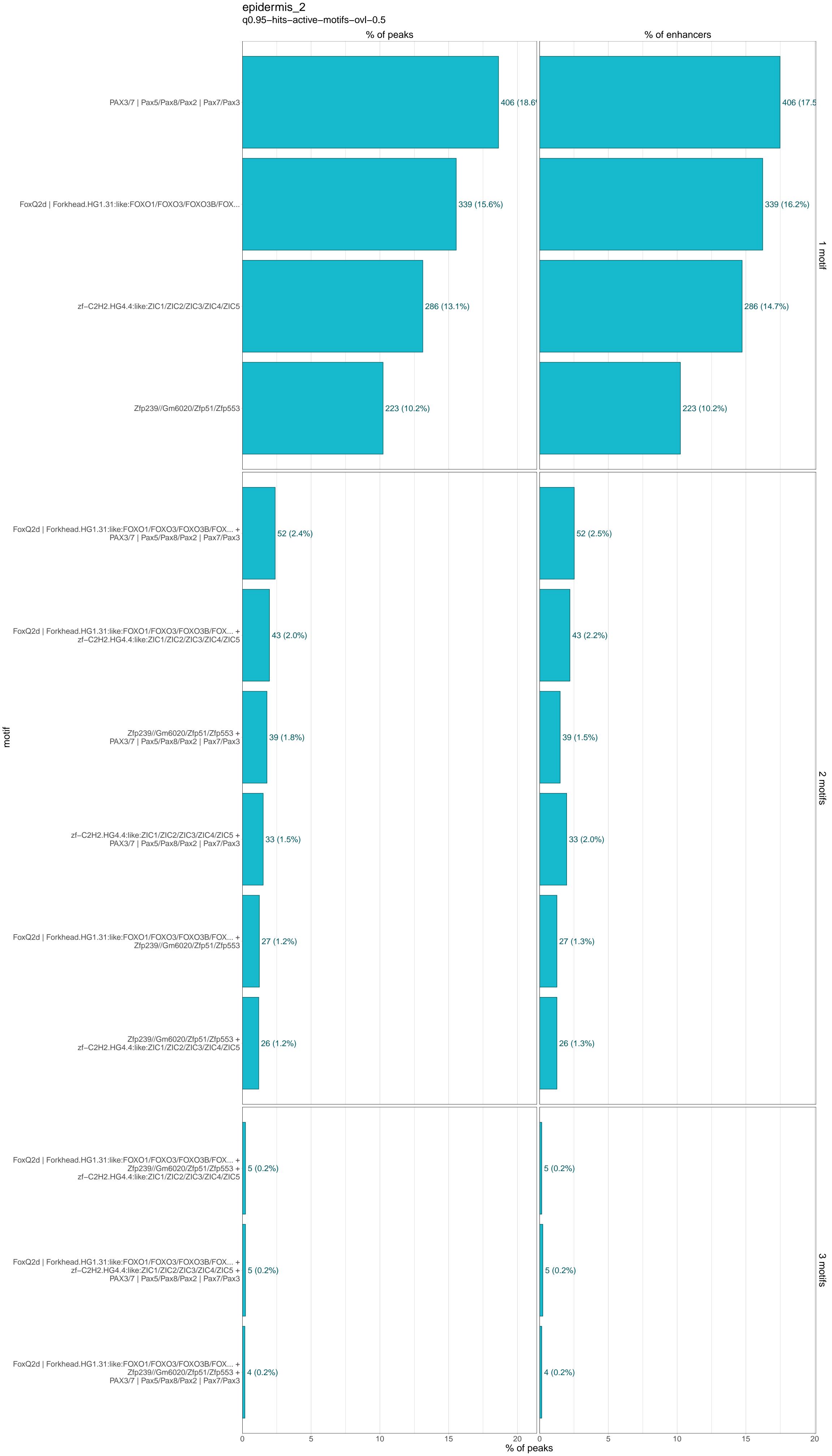
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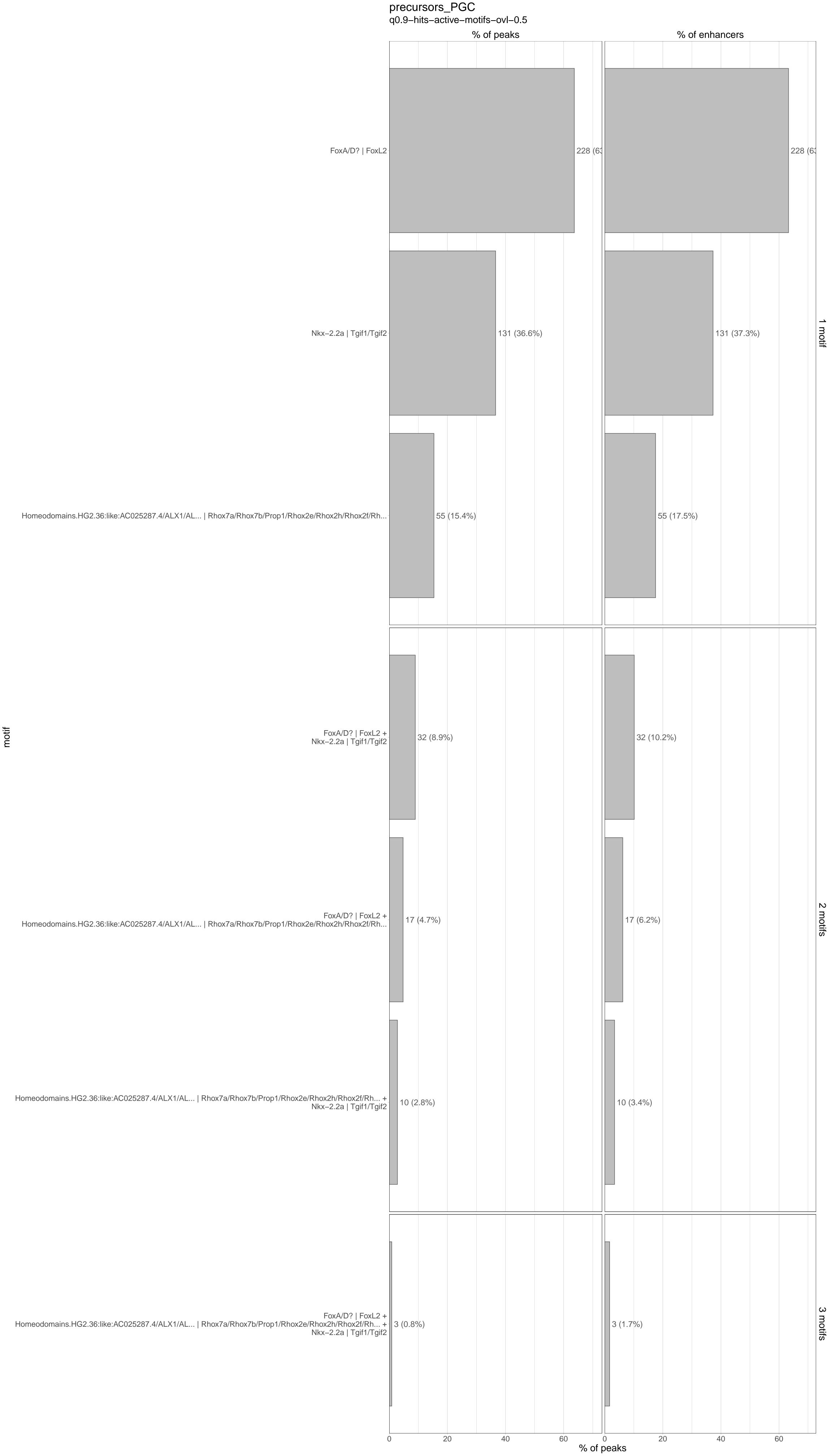


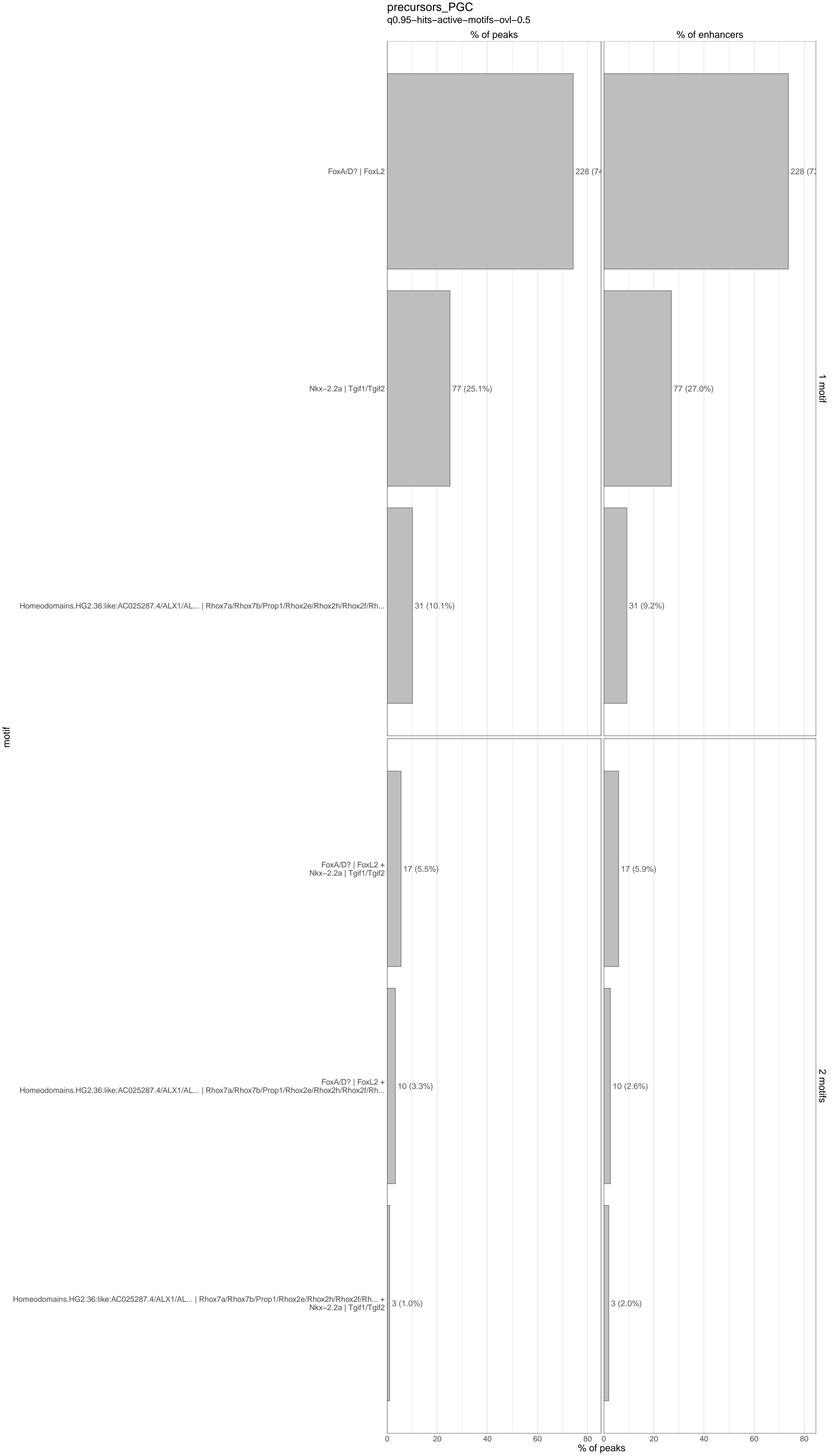
epidermis_2 q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 633 (2 633 (2 PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 493 (20.1%) 493 (19.7%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... 484 (19.8%) 484 (21.2% zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 380 (15.5%) 380 (14.7%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... 373 (13.9%) Fos/Fosb/Fosl1/Fosl2 373 (15.2%) 370 (15.1%) 370 (15.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... 367 (16.4%) zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... 367 (15.0%) 340 (13.9%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... 340 (13.0%) 296 (12.1%) 296 (12.4%) Zfp239//Gm6020/Zfp51/Zfp553 292 (11.9%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... 292 (12.2%) 288 (9.8%) 288 (11.8%) Mlx 285 (11.6%) 285 (11.6%) Nrf1 271 (11.6%) 271 (11.1%) Anthox6/Ax6 245 (10.0%) 245 (9.0%) Nkx-2.2a | Tgif1/Tgif2 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 134 (5.3%) 134 (5.5%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 110 (4.5%) 110 (4.0%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... + 99 (4.0%) 99 (4.4%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 93 (3.8%) 93 (3.7%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 87 (3.7%) 87 (3.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 85 (3.5%) 85 (3.7%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 83 (3.4%) 83 (3.2%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 81 (3.3%) 81 (2.8%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Fos/Fosb/Fosl1/Fosl2 + 81 (3.3%) 81 (3.1%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 74 (3.0%) 74 (2.6%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 73 (3.0%) 73 (2.6%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 72 (2.9%) 72 (2.8%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 68 (2.8%) 68 (2.9%) zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... Zfp239//Gm6020/Zfp51/Zfp553 + 68 (2.8%) 68 (2.2%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... + 67 (2.7%) 67 (3.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... + 66 (2.7%) 66 (3.2%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 66 (2.7%) 66 (2.6%) Fos/Fosb/Fosl1/Fosl2 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 65 (2.7%) 65 (2.7%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... 62 (2.5%) 62 (2.5%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 60 (2.4%) 60 (2.5%) Nrf1 + 60 (2.4%) 60 (2.6%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Fos/Fosb/Fosl1/Fosl2 + 60 (2.4%) 60 (2.4%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 59 (2.4%) 59 (2.3%) Fos/Fosb/Fosl1/Fosl2 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 59 (2.4%) 59 (2.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 + 59 (2.4%) 59 (2.6%) Anthox6/Ax6 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 58 (2.4%) 58 (2.5%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 58 (2.4%) 58 (2.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... + 58 (2.4%) 58 (2.3%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... motifs zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 57 (2.3%) 57 (2.3%) Zfp239//Gm6020/Zfp51/Zfp553 zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... + 56 (2.3%) 56 (2.4%) Fos/Fosb/Fosl1/Fosl2 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 56 (2.3%) 56 (2.6%) Anthox6/Ax6 MIx + 55 (2.2%) 55 (1.5%) Fos/Fosb/Fosl1/Fosl2 Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... + 55 (2.4%) 55 (2.2%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Nkx-2.2a | Tgif1/Tgif2 + 54 (2.2%) 54 (1.9%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 53 (2.2%) 53 (2.3%) Anthox6/Ax6 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 53 (2.2%) 53 (2.4%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 51 (2.1%) 51 (1.9%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 49 (2.0%) 49 (1.9%) Zfp239//Gm6020/Zfp51/Zfp553 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 49 (2.0%) 49 (1.6%) Fos/Fosb/Fosl1/Fosl2 Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 48 (2.0%) 48 (1.8%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... 47 (1.9%) 47 (1.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 47 (1.9%) 47 (1.6%) Fos/Fosb/Fosl1/Fosl2 Fos/Fosb/Fosl1/Fosl2 + 47 (1.9%) 47 (1.8%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 46 (1.9%) 46 (1.7%) Nkx-2.2a | Tgif1/Tgif2 46 (1.9%) 46 (1.5%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... 46 (1.9%) 46 (1.4%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... + 46 (1.9%) 46 (1.9%) Zfp239//Gm6020/Zfp51/Zfp553 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 45 (1.8%) 45 (2.1%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... 45 (1.8%) 45 (2.1%) Fos/Fosb/Fosl1/Fosl2 zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... + 45 (1.8%) 45 (2.1%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 45 (1.8%) 45 (1.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... Zfp239//Gm6020/Zfp51/Zfp553 + 44 (1.8%) 44 (1.9%) Fos/Fosb/Fosl1/Fosl2 zf-C4 Nuclear receptors.HG1.13:NR4A1/NR4A2/... | zf-C4 Nuclear receptors.HG1.9:like:ESR1/ESR... + 43 (1.8%) 43 (2.2%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... + 43 (1.8%) 43 (2.1%) Anthox6/Ax6 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 43 (1.8%) 43 (1.8%) Anthox6/Ax6 Zfp239//Gm6020/Zfp51/Zfp553 + 42 (1.7%) 42 (1.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 41 (1.7%) 41 (1.4%) Zfp239//Gm6020/Zfp51/Zfp553 10 20 10 20 % of peaks

1 motif



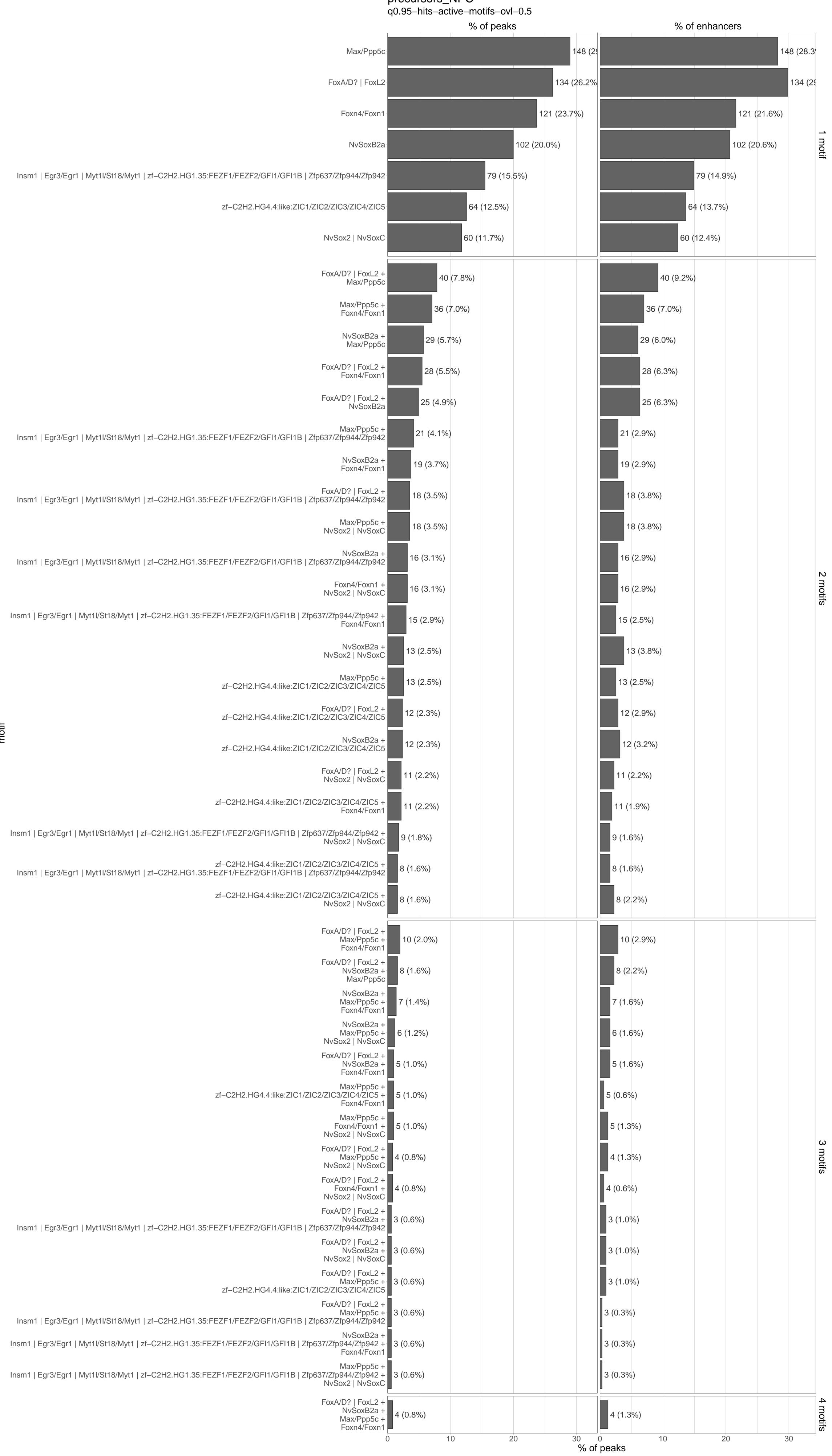
precursors_PGC q0.9-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 463 (57.4% 463 (56.7% ARCH438_Spdef 341 (42.3%) 341 (40.5%) ARCH647_Smad2/Smad3_Smad9/S... 263 (32.6%) 263 (37.6%) ARCH367_/E2f4_E2f6_E2f8/E2f.. 225 (27.9%) 225 (28.6%) ARCH895_Foxn4/Foxn1 177 (21.9%) 177 (24.1%) ARCH178_Foxc2/Foxc1_Foxg1/G.. 164 (19.4%) 164 (20.3%) ARCH1627_Xbp1 160 (16.9%) 160 (19.8%) ARCH1408_GATA20 ARCH1420_RUNX2 148 (18.3%) 148 (14.9%) motif 134 (16.6%) 134 (16.2%) ARCH483_Tbx3/Tbx2 129 (16.2%) 129 (16.0%) ARCH1102_Foxa3/Foxa1/Foxa2_... 123 (15.2%) 123 (8.7%) ARCH1253_Yy1 110 (13.6%) 110 (14.2%) ARCH432_/E2f4_E2f6 97 (12.0%) ARCH123_/Duxbl1/_/Duxbl1//A... 97 (14.2%) 94 (11.6%) 94 (10.4%) ARCH669 TCP17 94 (13.2%) 94 (11.6%) ARCH378_M00590_2.00__PB0095.. 83 (10.4%) 83 (10.3%) ARCH430_/E2f4_E2f6 82 (10.2%) 82 (8.5%) ARCH1386_ANKHD1__PTBP1 ARCH438_Spdef + 202 (23.1%) 202 (25.0%) ARCH647_Smad2/Smad3_Smad9/S... ARCH438_Spdef + 136 (16.9%) 136 (18.2%) ARCH367_/E2f4_E2f6_E2f8/E2f. ARCH438_Spdef + 119 (14.7%) 119 (14.7%) ARCH895_Foxn4/Foxn1 ARCH438 Spdef + 114 (14.1%) 114 (11.4%) ARCH1408_GATA20 ARCH178_Foxc2/Foxc1_Foxg1/G... + 103 (12.8%) 103 (14.2%) ARCH438_Spdef ARCH647_Smad2/Smad3_Smad9/S... + 101 (12.5%) 101 (13.7%) ARCH895_Foxn4/Foxn1 ARCH438_Spdef + 94 (11.6%) 94 (11.4%) ARCH1627 Xbp1 ARCH367_/E2f4_E2f6_E2f8/E2f... + 93 (11.5%) 93 (13.7%) ARCH647_Smad2/Smad3_Smad9/S... ARCH438_Spdef + 83 (10.3%) 83 (10.2%) ARCH483_Tbx3/Tbx2 ARCH438_Spdef + 81 (10.0%) 81 (7.7%) ARCH1420_RUNX2 ARCH178_Foxc2/Foxc1_Foxg1/G... + 79 (9.8%) 79 (10.9%) ARCH647_Smad2/Smad3_Smad9/S.. ARCH647 Smad2/Smad3 Smad9/S... + 79 (9.5%) 79 (9.8%) ARCH1627 Xbp1 ARCH647 Smad2/Smad3 Smad9/S... + 75 (9.3%) 75 (7.2%) ARCH1408_GATA20 ARCH438_Spdef + 72 (8.9%) 72 (8.5%) ARCH1102_Foxa3/Foxa1/Foxa2_.. ARCH438 Spdef + 70 (4.5%) 70 (8.7%) ARCH1253_Yy1 ARCH367 /E2f4 E2f6 E2f8/E2f... + 66 (8.2%) 66 (8.2%) ARCH895_Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S... + 64 (7.9%) 64 (7.7%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 60 (4.5%) 60 (7.4%) ARCH1253_Yy1 ARCH647_Smad2/Smad3_Smad9/S... + 59 (8.2%) 59 (7.3%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH438_Spdef + 58 (7.2%) 58 (7.5%) ARCH432_/E2f4_E2f6 ARCH178_Foxc2/Foxc1_Foxg1/G... + 56 (8.2%) 56 (6.9%) ARCH367_/E2f4_E2f6_E2f8/E2f... ARCH438_Spdef + 55 (6.8%) 55 (6.5%) ARCH669_TCP17 ARCH367_/E2f4_E2f6_E2f8/E2f... + 54 (6.7%) 54 (7.5%) ARCH1627_Xbp1 ARCH178_Foxc2/Foxc1_Foxg1/G... + 52 (6.4%) 52 (8.0%) ARCH895_Foxn4/Foxn1 ARCH438_Spdef + 51 (6.2%) 51 (6.3%) ARCH430_/E2f4_E2f6 ARCH647 Smad2/Smad3 Smad9/S... + 51 (6.3%) 51 (4.7%) ARCH1420_RUNX2 2 motifs ARCH438_Spdef + 50 (7.5%) 50 (6.2%) ARCH123_/Duxbl1/_/Duxbl1//A... ARCH438_Spdef + 50 (6.2%) 50 (7.0%) ARCH378_M00590_2.00__PB0095.. ARCH438_Spdef + 48 (5.9%) 48 (4.7%) ARCH1386_ANKHD1__PTBP1 ARCH367_/E2f4_E2f6_E2f8/E2f... + 48 (5.9%) 48 (7.7%) ARCH378_M00590_2.00__PB0095... ARCH647_Smad2/Smad3_Smad9/S... + 48 (5.9%) 48 (6.0%) ARCH432_/E2f4_E2f6 ARCH367_/E2f4_E2f6_E2f8/E2f... + 46 (5.7%) 46 (6.0%) ARCH1420_RUNX2 ARCH367_/E2f4_E2f6_E2f8/E2f... + 45 (5.6%) 45 (5.5%) ARCH483 Tbx3/Tbx2 ARCH1420_RUNX2 + 45 (5.6%) 45 (5.0%) ARCH895_Foxn4/Foxn1 ARCH1627_Xbp1 + 45 (5.6%) 45 (4.5%) ARCH895_Foxn4/Foxn1 ARCH669 TCP17 + 44 (4.7%) 44 (5.5%) ARCH647 Smad2/Smad3 Smad9/S... ARCH367_/E2f4_E2f6_E2f8/E2f... + 44 (5.5%) 44 (7.2%) ARCH432_/E2f4_E2f6 ARCH367 /E2f4 E2f6 E2f8/E2f... + 41 (5.1%) 41 (6.5%) ARCH123_/Duxbl1/_/Duxbl1//A... ARCH647_Smad2/Smad3_Smad9/S... + 41 (5.1%) 41 (5.5%) ARCH123_/Duxbl1/_/Duxbl1//A... ARCH367_/E2f4_E2f6_E2f8/E2f... + 40 (6.0%) 40 (5.0%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH895_Foxn4/Foxn1 + 40 (3.0%) 40 (5.0%) ARCH1408 GATA20 ARCH895 Foxn4/Foxn1 + 40 (5.0%) 40 (5.2%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH1627_Xbp1 + 39 (4.8%) 39 (4.7%) ARCH483_Tbx3/Tbx2 ARCH367_/E2f4_E2f6_E2f8/E2f... + 38 (3.7%) 38 (4.7%) ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 38 (4.7%) 38 (4.5%) ARCH1386_ANKHD1__PTBP1 ARCH178_Foxc2/Foxc1_Foxg1/G... + 37 (4.6%) 37 (3.7%) ARCH1627_Xbp1 ARCH647 Smad2/Smad3 Smad9/S... + 37 (4.6%) 37 (3.7%) ARCH430_/E2f4_E2f6 ARCH367_/E2f4_E2f6_E2f8/E2f... + 35 (3.7%) 35 (4.3%) ARCH1253_Yy1 ARCH647_Smad2/Smad3_Smad9/S... + 35 (4.3%) 35 (5.0%) ARCH378_M00590_2.00__PB0095... ARCH178_Foxc2/Foxc1_Foxg1/G... + 34 (4.2%) 34 (5.0%) ARCH1408 GATA20 ARCH178_Foxc2/Foxc1_Foxg1/G... + 34 (4.2%) 34 (5.2%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH483_Tbx3/Tbx2 + 33 (4.1%) 33 (3.7%) ARCH895_Foxn4/Foxn1 ARCH895 Foxn4/Foxn1 + 33 (4.1%) 33 (1.7%) ARCH1253_Yy1 ARCH1408_GATA20 + 33 (4.1%) 33 (2.0%) ARCH1253_Yy1 ARCH438_Spdef + 56 (6.9%) 56 (5.2%) ARCH647 Smad2/Smad3 Smad9/S... + ARROMAGE_SATA20 51 (6.3%) 51 (6.5%) ARCH367_/E2f4_E2f6_E2f8/E2f... + ARCH647_Smad2/3mad+338m3p0/63.+ ARCH647_Smad2/Smad3_Smad9/S... + 51 (6.3%) 51 (6.5%) ARCH178_FoxR2/Flogs5/_Froxrg4/Floxn4 44 (7.0%) ARCH438_Spdef + 44 (5.5%) ARCH647_Smad2/3mad+33msp0/6.+ motifs 43 (5.3%) 43 (4.5%) ARCH647_Smad2/Smad3_Smad9/S... + ARRCH3625p8661 39 (4.7%) 39 (4.8%) ARCH647 Smad2/Smad3 Smad9/S... + ARARGBA38bx37dex2 38 (4.7%) 38 (3.0%) ARCH647_Smad2/Smad3_Smad9/S... + AR/0R/288253d\fy4 38 (4.7%) ARCH647 Smad2/Smad3 Smad9/S... + 38 (4.7%) ARCH1102_Fox AR/Entails FSpacef.+ 36 (4.5%) 36 (3.7%) ARCH367_/E2f4_E2f6_E2f8/E2f... + ARCH895_Foxn4/Foxn1 20 20 0 40 60 40 60 % of peaks





precursors_endoNPC q0.95-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 64 (37.69 64 (39.6% AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 NvSox2 | NvSoxC 46 (27.1%) 46 (26.1%) 39 (22.9%) 39 (19.8%) Atoh8 | Srebf2/Srebf1 NvSoxB2a 39 (22.9%) 39 (19.8%) Atoh8 | Srebf2/Srebf1 + AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 9 (5.3%) 9 (4.5%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + NvSox2 | NvSoxC 6 (3.5%) 6 (2.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + NvSoxB2a 5 (2.9%) 5 (2.7%) 2 motifs Atoh8 | Srebf2/Srebf1 + NvSoxB2a 4 (2.4%) 4 (1.8%) NvSoxB2a + NvSox2 | NvSoxC 4 (2.4%) 4 (2.7%) Atoh8 | Srebf2/Srebf1 + NvSox2 | NvSoxC 3 (1.8%) 3 (0.9%) 3 motifs Atoh8 | Srebf2/Srebf1 + AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + NvSox2 | NvSoxC 2 (1.2%) 2 (0.9%) % of peaks 20 30 10 10 20 30 40

precursors_NPC q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 196 (3 Max/Ppp5c 196 (3 175 (32.3%) 175 (32. NvSoxB2a 121 (22.4%) FoxA/D? | FoxL2 121 (25.5%) 114 (21.1%) 114 (20.7%) Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 112 (18.8%) 112 (20.7%) Foxn4/Foxn1 95 (17.6%) 95 (17.6%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... 89 (16.5%) 89 (18.5%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2-86 (15.9%) 86 (17.6%) 1 motif 83 (15.3%) 83 (16.4%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... 80 (14.8%) 80 (15.5%) Nrf1 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... 69 (11.2%) 69 (12.8%) 67 (12.4%) 67 (13.1%) zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... Msantd2 | Rcor1/Rcor2/Rcor3 65 (12.0%) 65 (11.9%) 61 (12.5%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... 61 (11.3%) Pou4 59 (10.9%) 59 (10.0%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... 55 (10.2%) 55 (10.3%) NvSoxB2a + 59 (10.9%) 59 (10.6%) Max/Ppp5c Max/Ppp5c + FoxA/D? | FoxL2 48 (8.9%) 48 (10.0%) Max/Ppp5c + Foxn4/Foxn1 43 (7.9%) 43 (7.0%) NvSoxB2a + 36 (6.7%) 36 (6.4%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Max/Ppp5c + Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 36 (6.7%) 36 (5.2%) Max/Ppp5c + 36 (6.7%) 36 (7.6%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... NvSoxB2a + 35 (6.5%) 35 (5.2%) Foxn4/Foxn1 NvSoxB2a + 34 (6.4%) 34 (6.3%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... NvSoxB2a + 32 (5.9%) 32 (7.6%) FoxA/D? | FoxL2 NvSoxB2a + 31 (5.7%) 31 (7.0%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Max/Ppp5c + zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 31 (5.7%) 31 (4.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 30 (5.5%) 30 (5.2%) Max/Ppp5c Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 28 (5.2%) 28 (5.5%) NvSoxB2a NvSoxB2a + 25 (4.6%) 25 (4.6%) Msantd2 | Rcor1/Rcor2/Rcor3 motifs NvSoxB2a + 25 (4.6%) 25 (4.3%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... Max/Ppp5c + 25 (4.6%) 25 (4.6%) Nrf1 Max/Ppp5c + AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 25 (4.6%) 25 (4.6%) Pou4 + 24 (4.4%) 24 (3.6%) NvSoxB2a Max/Ppp5c + 24 (4.4%) 24 (4.3%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 24 (4.4%) 24 (4.0%) Foxn4/Foxn1 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 24 (4.4%) 24 (5.2%) FoxA/D? | FoxL2 Nrf1 + 23 (4.9%) 23 (4.3%) FoxA/D? | FoxL2 NvSoxB2a + 22 (4.1%) 22 (4.9%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 Max/Ppp5c + 22 (4.1%) 22 (4.9%) zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 21 (3.9%) 21 (4.9%) FoxA/D? | FoxL2 NvSoxB2a + 21 (3.9%) 21 (4.0%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 21 (3.9%) 21 (6.1%) FoxA/D? | FoxL2 Foxn4/Foxn1 + 21 (3.9%) 21 (4.6%) FoxA/D? | FoxL2 20 30 30 40 0 10 0 10 20 % of peaks



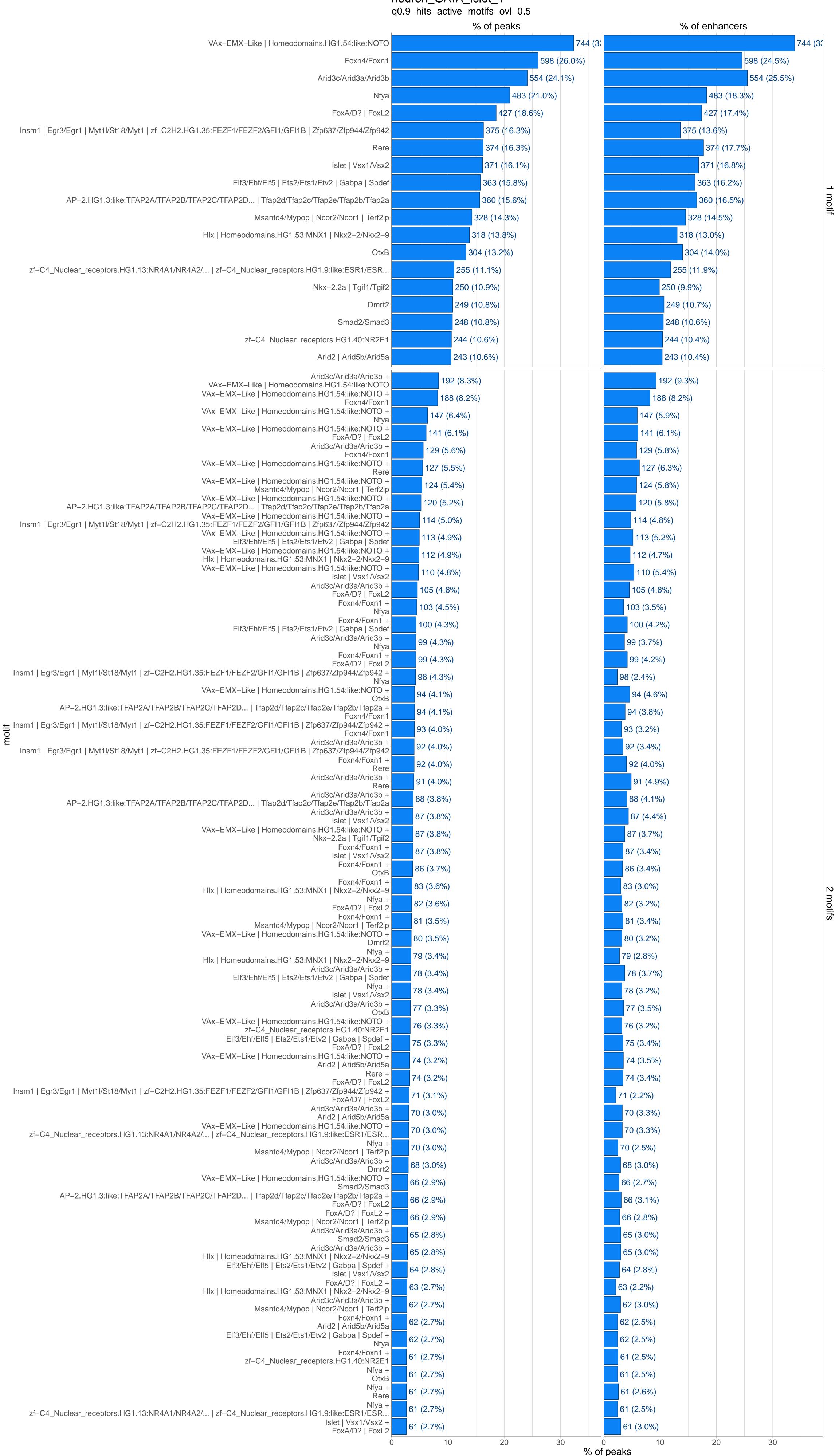
NPC_1 q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 2752 2752 (2 Lhx8/Lhx6 2531 (18. 2531 (18.7%) FoxA/D? | FoxL2 2251 (16.6%) 2251 (15.4%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2-2113 (19.6% 2113 (15.6%) 2100 (15.5%) 2100 (10.7%) NvSox2 | NvSoxC 1986 (15.8%) 1986 (14.7%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 1919 (14.2%) 1919 (17.1%) NvSoxB2a 1671 (12.4%) 1671 (11.6%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2-1597 (12.0%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... 1597 (11.8%) 1540 (11.4%) 1540 (12.6%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... 1460 (10.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... 1460 (10.5%) Lhx8/Lhx6 + 500 (3.7%) 500 (4.4%) FoxA/D? | FoxL2 HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 435 (4.7%) 435 (3.2%) NvSoxB2a HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 431 (3.2%) 431 (4.0%) Lhx8/Lhx6 NvSoxB2a + 425 (3.1%) 425 (3.7%) Lhx8/Lhx6 Lhx8/Lhx6 + 411 (3.0%) 411 (3.2%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... NvSox2 | NvSoxC + 394 (2.9%) 394 (2.0%) FoxA/D? | FoxL2 HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 387 (3.7%) 387 (2.9%) FoxA/D? | FoxL2 Lhx8/Lhx6 + 381 (2.8%) 381 (3.4%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 379 (2.8%) 379 (2.5%) FoxA/D? | FoxL2 NvSox2 | NvSoxC + 371 (2.2%) 371 (2.7%) Lhx8/Lhx6 NvSox2 | NvSoxC + 357 (2.6%) 357 (1.8%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 343 (2.5%) 343 (2.9%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 FoxA/D? | FoxL2 + 321 (2.4%) 321 (2.2%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 314 (2.3%) 314 (2.4%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Lhx8/Lhx6 + 312 (2.3%) 312 (2.7%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Lhx8/Lhx6 + 312 (2.3%) 312 (2.3%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 + 311 (2.3%) 311 (2.7%) FoxA/D? | FoxL2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 307 (2.3%) 307 (2.5%) Lhx8/Lhx6 NvSoxB2a + 303 (2.2%) 303 (2.8%) FoxA/D? | FoxL2 Lhx8/Lhx6 + 300 (2.2%) 300 (2.5%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 298 (2.2%) 298 (2.4%) FoxA/D? | FoxL2 HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 290 (2.1%) 290 (2.4%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... NvSoxB2a + 289 (2.1%) 289 (2.7%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 282 (2.1%) 282 (2.4%) FoxA/D? | FoxL2 HMGbox Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox Sox.HG1.62:like:NSD2 + 281 (2.1%) 281 (2.3%) NvSox2 | NvSoxC NvSoxB2a + 280 (2.1%) 280 (2.3%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 277 (2.0%) 277 (1.9%) motif AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 267 (2.0%) 267 (2.3%) FoxA/D? | FoxL2 HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 261 (2.4%) 261 (1.9%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... NvSox2 | NvSoxC + 259 (1.9%) 259 (1.0%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 NvSox2 | NvSoxC + 246 (1.8%) 246 (1.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... NvSox2 | NvSoxC + 236 (1.7%) 236 (1.4%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 NvSoxB2a + 235 (1.7%) 235 (1.7%) NvSox2 | NvSoxC NvSoxB2a + 235 (1.7%) 235 (2.3%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H.. HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 225 (2.0%) 225 (1.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 | Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 225 (1.7%) 225 (1.7%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:.. HMGbox Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox Sox.HG1.62:like:NSD2 + 219 (1.6%) 219 (1.9%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... NvSoxB2a + 219 (1.6%) 219 (2.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 218 (1.6%) 218 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 214 (1.8%) 214 (1.6%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 212 (1.6%) 212 (1.4%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 + | 211 (1.6%) 211 (1.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 209 (1.5%) 209 (2.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... NvSoxB2a + 209 (1.5%) 209 (1.6%) Cers6/Cers5 | DIx4/DIx1/DIx3/DIx6/DIx2/DIx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 209 (1.5%) 209 (1.9%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 204 (1.5%) 204 (1.1%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... NvSox2 | NvSoxC + | 198 (1.3%) 198 (1.5%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... NvSoxB2a + 192 (1.4%) 192 (1.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 NvSox2 | NvSoxC + | 183 (1.4%) 183 (1.2%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 180 (1.3%) 180 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 178 (1.3%) 178 (1.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 173 (1.3%) 173 (1.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 164 (1.5%) 164 (1.2%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 164 (1.2%) 164 (1.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 | Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 161 (1.2%) 161 (1.1%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... HMGbox Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox Sox.HG1.62:like:NSD2 + NvSoxB2a + 90 (0.7%) 90 (1.0%) HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2X6 84 (0.8%) Lhx8/Lhx6 + 84 (0.6%) Nv\$60024/PRV\$6002-2 Lhx8/Lhx6 + 79 (0.6%) 79 (0.6%) FoxAMD/8/LFD/8-2 Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 76 (0.6%) 76 (0.5%) HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HGf.@24/Re?.N.50x2-2 67 (0.6%) Lhx8/Lhx6 + 67 (0.5%) PAX3/7 | Pax5/Pax8/Psax2||Prax5/Rex3

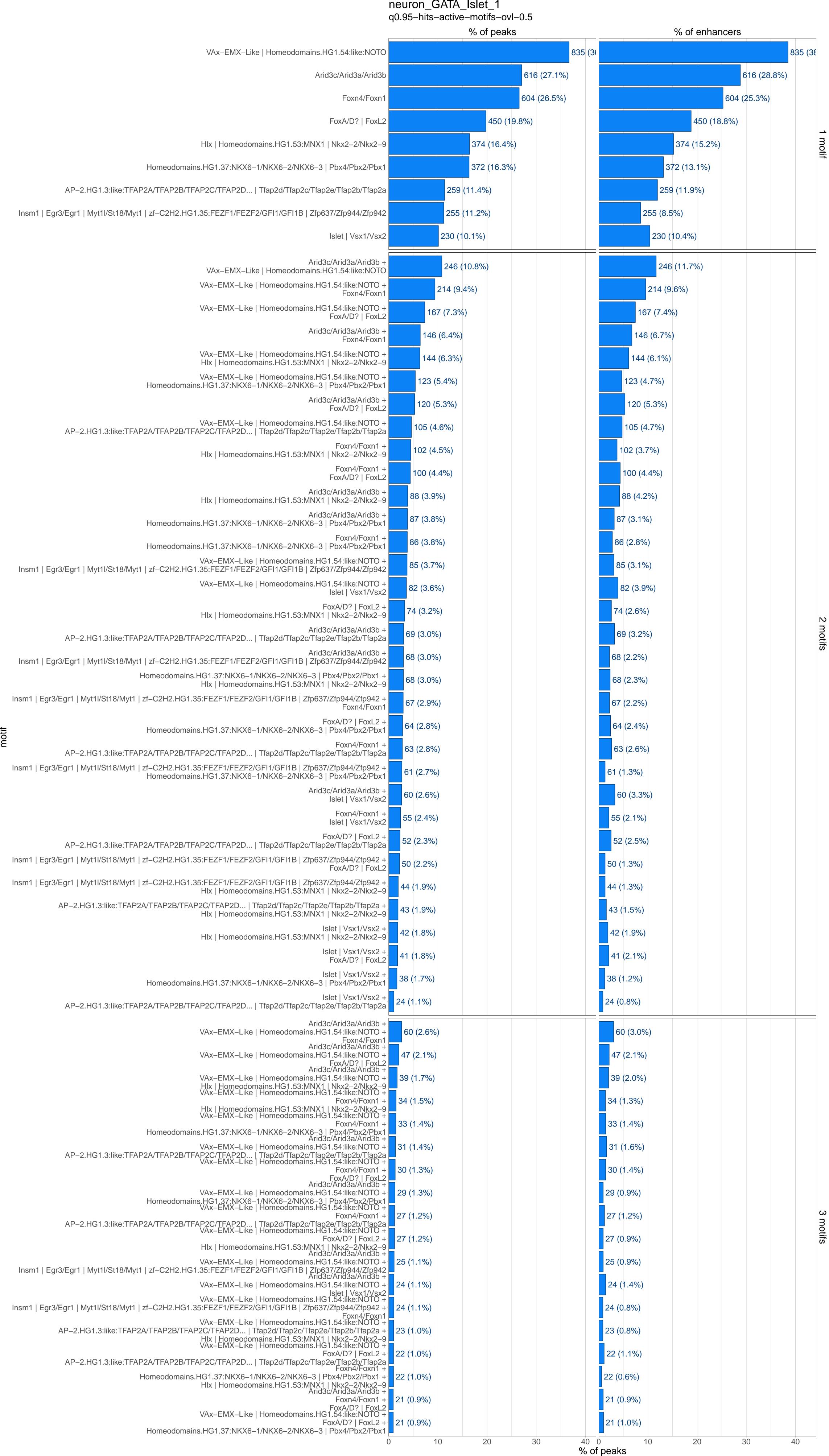


NPC_2 q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers FoxA/D? | FoxL2 482 (2 482 (22 427 (18.6%) 427 (21.59 HMGbox Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox Sox.HG1.62:like:NSD2 392 (17.1%) 392 (19.7%) NvSoxB2a 375 (16.3%) 375 (20.9% Arid3c/Arid3a/Arid3b 360 (21.4% 360 (15.7%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 322 (10.4%) 322 (14.0%) Nkx-2.2a | Tgif1/Tgif2 motif 312 (13.6%) NvSox2 | NvSoxC 312 (9.3%) 295 (15.7%) 295 (12.8%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... 282 (12.9%) 282 (12.3%) 242 (10.5%) 242 (10.5%) Creb3l2/Creb3l1 241 (10.5%) 241 (10.0%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... 240 (10.4%) 240 (9.9%) zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N... 236 (10.3%) 236 (9.3%) bZIP.HG1.3:like:JUN/JUNB/JUND HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 87 (3.8%) 87 (4.8%) FoxA/D? | FoxL2 HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 84 (3.7%) 84 (4.3%) NvSoxB2a Arid3c/Arid3a/Arid3b + 84 (3.7%) 84 (4.6%) FoxA/D? | FoxL2 HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 81 (3.5%) 81 (4.6%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 78 (3.4%) 78 (4.5%) FoxA/D? | FoxL2 NvSoxB2a + 70 (3.0%) 70 (4.3%) Arid3c/Arid3a/Arid3b NvSoxB2a + 70 (3.0%) 70 (4.1%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 67 (2.9%) 67 (4.3%) Arid3c/Arid3a/Arid3b NvSox2 | NvSoxC + 65 (2.8%) 65 (2.5%) FoxA/D? | FoxL2 Nkx-2.2a | Tgif1/Tgif2 + 65 (2.8%) 65 (2.3%) FoxA/D? | FoxL2 NvSoxB2a + 64 (2.8%) 64 (3.4%) FoxA/D? | FoxL2 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 60 (2.6%) 60 (3.0%) FoxA/D? | FoxL2 Arid3c/Arid3a/Arid3b + 57 (2.5%) 57 (3.2%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 57 (2.5%) 57 (3.4%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 FoxA/D? | FoxL2 + 57 (2.5%) 57 (3.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 54 (2.3%) 54 (2.5%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 52 (2.3%) 52 (3.5%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 NvSoxB2a + 51 (1.8%) 51 (2.2%) Nkx-2.2a | Tgif1/Tgif2 NvSoxB2a + 51 (2.2%) 51 (2.5%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Arid3c/Arid3a/Arid3b + 50 (2.2%) 50 (3.3%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 49 (2.1%) 49 (1.7%) Nkx-2.2a | Tgif1/Tgif2 Arid3c/Arid3a/Arid3b + 49 (2.1%) 49 (3.3%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 49 (2.1%) 49 (3.2%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Nkx-2.2a | Tgif1/Tgif2 + 48 (2.2%) 48 (2.1%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... + 48 (2.1%) 48 (2.8%) FoxA/D? | FoxL2 HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 46 (2.0%) 46 (2.3%) zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N... Nkx-2.2a | Tgif1/Tgif2 + 45 (2.0%) 45 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... motifs bZIP.HG1.3:like:JUN/JUNB/JUND + 45 (2.0%) 45 (2.4%) FoxA/D? | FoxL2 HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 44 (1.9%) 44 (1.3%) bZIP.HG1.3:like:JUN/JUNB/JUND NvSoxB2a + 44 (1.9%) 44 (3.3%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Arid3c/Arid3a/Arid3b + 44 (1.9%) 44 (2.3%) NvSox2 | NvSoxC HMGbox Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox Sox.HG1.62:like:NSD2 + 43 (1.9%) 43 (1.5%) Creb3l2/Creb3l1 HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 43 (1.9%) 43 (2.0%) NvSox2 | NvSoxC NvSoxB2a + 43 (1.9%) 43 (2.0%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... Creb3l2/Creb3l1 + 43 (1.9%) 43 (2.5%) FoxA/D? | FoxL2 zf-C4 Nuclear receptors.HG1.25:like:NR2F1/N... + 41 (1.8%) 41 (1.9%) FoxA/D? | FoxL2 NvSox2 | NvSoxC + 40 (1.7%) 40 (1.0%) Nkx-2.2a | Tgif1/Tgif2 zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... + 40 (1.9%) 40 (1.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Arid3c/Arid3a/Arid3b + 39 (1.7%) 39 (1.2%) Nkx-2.2a | Tgif1/Tgif2 Arid3c/Arid3a/Arid3b + 39 (1.7%) 39 (2.3%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... Nkx-2.2a | Tgif1/Tgif2 + 39 (1.7%) 39 (1.1%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... HMGbox Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox Sox.HG1.62:like:NSD2 + 38 (1.7%) 38 (1.7%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... NvSox2 | NvSoxC + 38 (1.7%) 38 (1.3%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Nkx-2.2a | Tgif1/Tgif2 + 38 (1.7%) 38 (1.9%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Arid3c/Arid3a/Arid3b + 37 (1.6%) 37 (1.8%) bZIP.HG1.3:like:JUN/JUNB/JUND Arid3c/Arid3a/Arid3b + 35 (1.5%) 35 (2.1%) zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N... NvSoxB2a + 34 (1.5%) 34 (1.2%) NvSox2 | NvSoxC /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 34 (1.5%) 34 (1.9%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 33 (2.2%) 33 (1.4%) zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N... Creb3l2/Creb3l1 + 32 (1.4%) 32 (2.1%) Arid3c/Arid3a/Arid3b Creb3l2/Creb3l1 + 32 (1.4%) 32 (1.7%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Creb3l2/Creb3l1 + 32 (1.4%) 32 (1.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 NvSoxB2a + 31 (1.3%) 31 (1.1%) zf-C4 Nuclear receptors.HG1.25:like:NR2F1/N... Nkx-2.2a | Tgif1/Tgif2 + 31 (1.3%) 31 (1.2%) zf-C4 Nuclear receptors.HG1.25:like:NR2F1/N... zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N... + 31 (1.3%) 31 (1.9%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 25 5 10 15 5 10 15 20 0 % of peaks

neuron_GATA_Islet_1 q0.9-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 1131 (49.1^c 1131 (48.4) ARCH438_Spdef 1052 (45.6%) 1052 (46.3%) ARCH647_Smad2/Smad3_Smad9/S... 740 (32.1%) 740 (32.4%) ARCH895_Foxn4/Foxn1 639 (27.7%) 639 (27.5%) ARCH1408_GATA20 498 (23.1%) 498 (21.6%) ARCH1552_Pbx4/Pbx2/Pbx1 451 (20.3%) 451 (19.6%) ARCH1627_Xbp1 450 (19.5%) 450 (17.0%) ARCH178_Foxc2/Foxc1_Foxg1/G... 439 (19.0%) 439 (19.1%) ARCH483_Tbx3/Tbx2 ARCH1263_MF0001.1_ETS_class 425 (18.4%) 425 (18.7%) 423 (18.4%) 423 (20.6%) ARCH1468_Gata3/Gata1/Gata2 375 (13.6%) 375 (16.3%) ARCH530_Snai2-370 (17.0%) 370 (16.1%) ARCH1338_Barx2/Barx1_Dlx4/D... 357 (14.4%) ARCH1617_Crem/Creb1/Atf1 357 (15.5%) ARCH387_TFAP2E 356 (15.4%) 356 (16.3%) ARCH950_POU6F1 329 (14.3%) 329 (13.7%) 316 (13.7%) 316 (14.6%) ARCH183_Barx2/Barx1_Emx1/Em... 297 (13.3%) ARCH88_Isl1 297 (12.9%) 292 (12.7%) 292 (12.5%) ARCH425_/E2f4_E2f6 291 (12.6%) 291 (12.4%) ARCH1633_M02161_2.00 283 (12.3%) 283 (11.8%) ARCH954_Foxn4/Foxn1 ARCH1386_ANKHD1__PTBP1 261 (11.3%) 261 (11.9%) 252 (10.9%) 252 (9.8%) ARCH1503_Meis3/Meis2/Meis1_.. 251 (10.9%) 251 (10.5%) ARCH367_/E2f4_E2f6_E2f8/E2f... 240 (10.4%) 240 (11.6%) ARCH1444 Gata3/Gata1/Gata2-ARCH647 Smad2/Smad3 Smad9/S... + 508 (22.0%) 508 (22.0%) ARCH438_Spdef ARCH438_Spdef + 387 (16.8%) 387 (17.0%) ARCH895_Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S... + 349 (15.1%) 349 (15.2%) ARCH895_Foxn4/Foxn1 ARCH438_Spdef + 311 (13.4%) 311 (13.5%) ARCH1408_GATA20 ARCH647 Smad2/Smad3 Smad9/S... + 300 (13.0%) 300 (12.5%) ARCH1408_GATA20 ARCH1552_Pbx4/Pbx2/Pbx1 + 243 (10.5%) 243 (11.3%) ARCH438_Spdef ARCH438_Spdef + 233 (10.0%) 233 (10.1%) ARCH483_Tbx3/Tbx2 ARCH1552 Pbx4/Pbx2/Pbx1 + 228 (11.2%) 228 (9.9%) ARCH647_Smad2/Smad3_Smad9/S. ARCH895_Foxn4/Foxn1 + 225 (9.8%) 225 (9.8%) ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 214 (8.4%) 214 (9.3%) ARCH178_Foxc2/Foxc1_Foxg1/G.. ARCH1627_Xbp1 + 211 (9.2%) 211 (9.3%) ARCH438_Spdef ARCH178_Foxc2/Foxc1_Foxg1/G... + 207 (9.0%) 207 (7.9%) ARCH438_Spdef ARCH1468_Gata3/Gata1/Gata2 + 201 (10.0%) 201 (8.7%) ARCH438_Spdef ARCH438 Spdef + 199 (8.4%) 199 (8.6%) ARCH1263_MF0001.1_ETS_class ARCH1468_Gata3/Gata1/Gata2 + 193 (9.7%) 193 (8.4%) ARCH647_Smad2/Smad3_Smad9/S. ARCH1627_Xbp1 + 192 (8.6%) 192 (8.3%) ARCH647_Smad2/Smad3_Smad9/S... ARCH647_Smad2/Smad3_Smad9/S... + 192 (8.1%) 192 (8.3%) ARCH1263 MF0001.1 ETS class ARCH647_Smad2/Smad3_Smad9/S... + 185 (8.0%) 185 (8.4%) ARCH483_Tbx3/Tbx2 ARCH1338_Barx2/Barx1_Dlx4/D... + 178 (7.7%) 178 (8.5%) ARCH647_Smad2/Smad3_Smad9/S... ARCH387 TFAP2E + 177 (8.0%) 177 (7.7%) ARCH438_Spdef ARCH530 Snai2 + 177 (7.7%) 177 (6.0%) ARCH438_Spdef ARCH1338_Barx2/Barx1_Dlx4/D... + 173 (8.3%) 173 (7.5%) ARCH438_Spdef ARCH1617_Crem/Creb1/Atf1 + 165 (6.4%) 165 (7.2%) ARCH438_Spdef ARCH178_Foxc2/Foxc1_Foxg1/G... + 161 (7.0%) 161 (5.9%) 2 motifs ARCH895_Foxn4/Foxn1 ARCH387_TFAP2E + 158 (6.9%) 158 (7.4%) ARCH647_Smad2/Smad3_Smad9/S... ARCH438_Spdef + 157 (6.3%) 157 (6.8%) ARCH950_POU6F1 ARCH438_Spdef + 156 (6.8%) 156 (7.6%) ARCH183_Barx2/Barx1_Emx1/Em... ARCH1617 Crem/Creb1/Atf1 + 154 (6.7%) 154 (6.6%) ARCH647_Smad2/Smad3_Smad9/S... ARCH1552_Pbx4/Pbx2/Pbx1 + 154 (7.4%) 154 (6.7%) ARCH895_Foxn4/Foxn1 ARCH530_Snai2 + 150 (6.5%) 150 (5.8%) ARCH647_Smad2/Smad3_Smad9/S... ARCH1552 Pbx4/Pbx2/Pbx1 + 142 (6.2%) 142 (6.6%) ARCH1408_GATA20 ARCH1627 Xbp1 + 142 (6.2%) 142 (6.7%) ARCH895_Foxn4/Foxn1 ARCH895_Foxn4/Foxn1 + 142 (6.2%) 142 (6.1%) ARCH483_Tbx3/Tbx2 ARCH438_Spdef + 141 (6.1%) 141 (6.1%) ARCH1633_M02161_2.00 ARCH438 Spdef + 137 (5.9%) 137 (5.6%) ARCH954_Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S... + 135 (5.9%) 135 (5.4%) ARCH950_POU6F1 ARCH895 Foxn4/Foxn1 + 135 (5.9%) 135 (6.1%) ARCH1263_MF0001.1_ETS_class ARCH647_Smad2/Smad3_Smad9/S... + 134 (5.8%) 134 (6.3%) ARCH183_Barx2/Barx1_Emx1/Em... ARCH647_Smad2/Smad3_Smad9/S... + 134 (5.8%) 134 (5.9%) ARCH1633_M02161_2.00 ARCH1468_Gata3/Gata1/Gata2 + 133 (5.8%) 133 (6.6%) ARCH1408_GATA20 ARCH438_Spdef + 133 (5.8%) 133 (5.6%) ARCH88_Isl1 ARCH1627 Xbp1 + 130 (5.6%) 130 (5.7%) ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 130 (5.6%) 130 (6.0%) ARCH88_Isl1 ARCH438_Spdef + 128 (5.6%) 128 (5.3%) ARCH425_/E2f4_E2f6 ARCH647_Smad2/Smad3_Smad9/S... + 127 (5.6%) 127 (5.5%) ARCH425_/E2f4_E2f6 ARCH647_Smad2/Smad3_Smad9/S... + 126 (5.5%) 126 (5.3%) ARCH954 Foxn4/Foxn1 ARCH438_Spdef + 126 (5.5%) 126 (5.5%) ARCH1386_ANKHD1__PTBP1 ARCH367_/E2f4_E2f6_E2f8/E2f... + 122 (5.3%) 122 (5.1%) ARCH438_Spdef ARCH1408_GATA20 + 121 (5.2%) 121 (5.3%) ARCH1263_MF0001.1_ETS_class ARCH647_Smad2/Smad3_Smad9/S... + 178 (7.7%) 178 (7.6%) ARCH438_Spdef + ARCH647_Smad27SH895_5AXA49F9Xn1 141 (5.4%) 141 (6.1%) ARCH438_Spdef + ARCH1408_GATA20 10 20 30 10 20 30 50 0 40 40 % of peaks

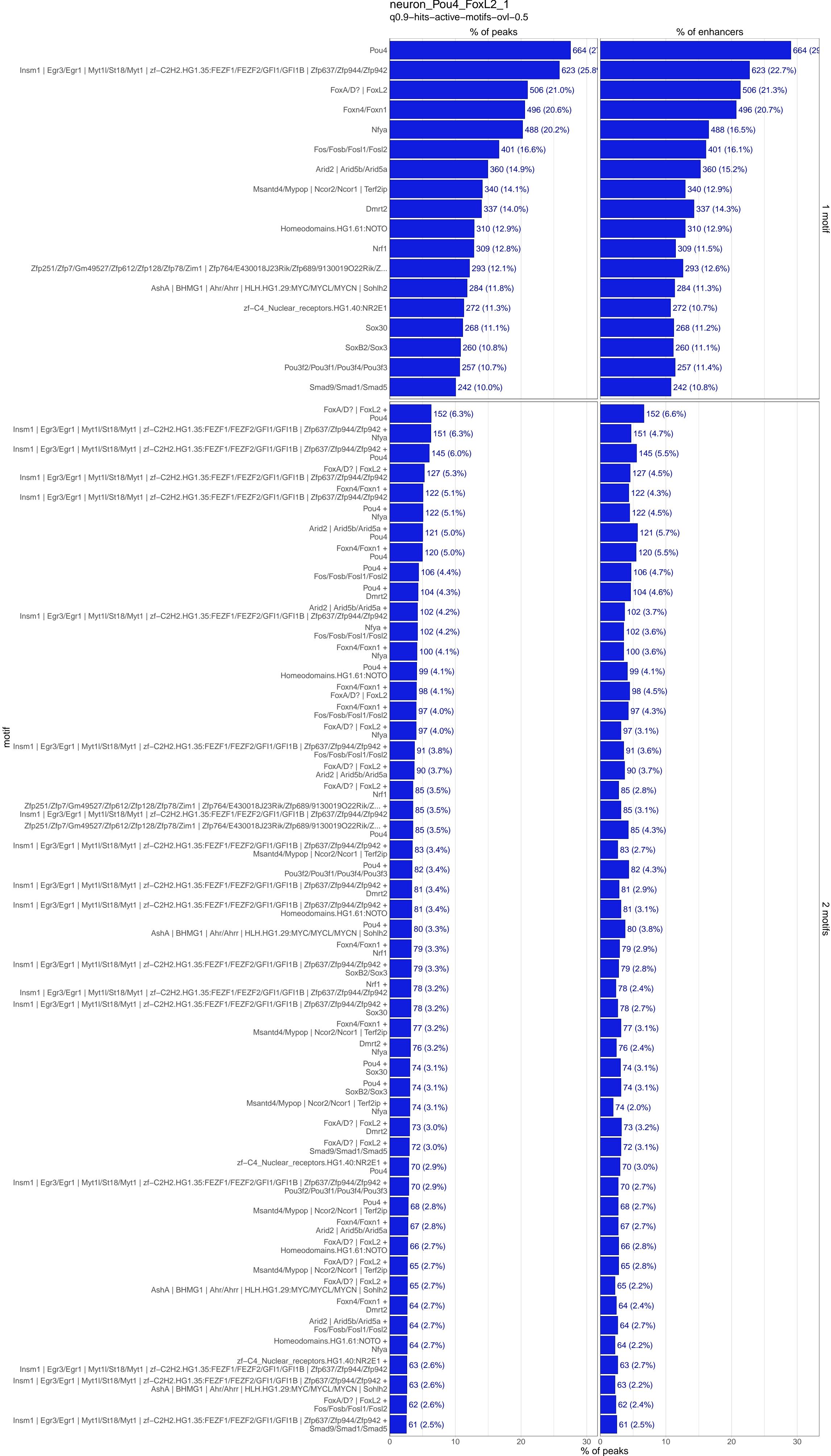
neuron_GATA_Islet_1 q0.95-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 668 (29.0% 668 (30.2% ARCH647_Smad2/Smad3_Smad9/S... 532 (23.1%) 532 (23.2%) ARCH438_Spdef 348 (15.1%) 348 (15.5%) ARCH895_Foxn4/Foxn1 1 motif 301 (12.6%) ARCH1408_GATA20 301 (13.1%) 264 (11.5%) 264 (8.9%) ARCH180_NFY ARCH530_Snai2 255 (11.1%) 255 (8.4%) ARCH483_Tbx3/Tbx2 236 (10.2%) 236 (10.4%) ARCH647_Smad2/Smad3_Smad9/S... + 158 (6.9%) 158 (7.1%) ARCH438_Spdef ARCH647_Smad2/Smad3_Smad9/S... + 93 (4.3%) 93 (4.0%) ARCH895_Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S... + 93 (4.0%) 93 (4.3%) ARCH1408_GATA20 ARCH438_Spdef + 79 (3.4%) 79 (3.5%) ARCH1408_GATA20 ARCH895_Foxn4/Foxn1 + 76 (3.3%) 76 (3.4%) ARCH438_Spdef ARCH647_Smad2/Smad3_Smad9/S... + 67 (2.9%) 67 (2.5%) ARCH180_NFY ARCH647_Smad2/Smad3_Smad9/S... + 62 (2.7%) 62 (2.9%) ARCH483_Tbx3/Tbx2 ARCH530_Snai2 + 58 (2.5%) 58 (1.8%) ARCH438_Spdef ARCH438_Spdef + 57 (2.5%) 57 (2.6%) ARCH483_Tbx3/Tbx2 ARCH438_Spdef + 53 (2.3%) 53 (2.0%) ARCH180_NFY 2 motifs ARCH530_Snai2 + 52 (2.3%) 52 (1.8%) ARCH647_Smad2/Smad3_Smad9/S.. ARCH895_Foxn4/Foxn1 + 48 (2.1%) 48 (2.0%) ARCH1408_GATA20 ARCH530_Snai2 + 43 (1.9%) 43 (0.9%) ARCH180_NFY ARCH530_Snai2 + 40 (1.3%) 40 (1.7%) ARCH895_Foxn4/Foxn1 ARCH895_Foxn4/Foxn1 + 36 (1.6%) 36 (1.3%) ARCH180_NFY ARCH483_Tbx3/Tbx2 + 35 (1.5%) 35 (1.5%) ARCH1408_GATA20 ARCH530_Snai2 + 31 (1.3%) 31 (0.8%) ARCH1408 GATA20 ARCH895_Foxn4/Foxn1 + 30 (1.3%) 30 (1.5%) ARCH483_Tbx3/Tbx2 ARCH180_NFY + 27 (1.2%) 27 (0.8%) ARCH1408_GATA20 ARCH483_Tbx3/Tbx2 + 26 (1.1%) 26 (1.0%) ARCH180_NFY ARCH530_Snai2 + 25 (1.1%) 25 (0.6%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 24 (1.0%) 24 (1.3%) ARCH438_Spdef + ARCH647_Smad2/Smad3_Smad9/S... + ARCH895_Foxn4/Foxn1 + 22 (0.9%) 22 (1.0%) ARCH647_Smad2/Smad3_Smad9/S... + 16 (0.7%) 16 (0.7%) ARCH438_Spdef ARCH647_Smad2/Smad3_Smad9/S... + ARCH895_Foxn4/Foxn1 + ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 14 (0.6%) 14 (0.6%) ARCH438_Spdef + ARCH530_Snai2 + 14 (0.8%) 14 (0.6%) ARCH438_Spdef + 12 (0.5%) 12 (0.2%) ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + ARCH483_Tbx3/Tbx2 + 12 (0.6%) 12 (0.5%) ARCH1408_GATA20 ARCH895_Foxn4/Foxn1 + 12 (0.5%) 12 (0.6%) ARCH438_Spdef + ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 10 (0.4%) 10 (0.4%) ARCH895_Foxn4/Foxn1 + ARCH647_Smad2/Smad3_Smad9/S... + ARCH180_NFY + 9 (0.3%) 9 (0.4%) ARCH483_Tbx3/Tbx2 + 9 (0.4%) 9 (0.4%) 8 (0.3%) ARCH647_Smad2/Smad3_Smad9/S... + 8 (0.3%) ARCH895_Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S... + 8 (0.3%) ARCH895_Foxn4/Foxn1 + 8 (0.3%) ARCH895_Foxn4/Foxn1 + 8 (0.3%) ARCH438_Spdef + 8 (0.3%) ARCH180 NFY ARCH438_Spdef + ARCH180_NFY + 8 (0.3%) 8 (0.2%) ARCH1408 GATA20 ARCH530_Snai2 + ယ 7 (0.2%) ARCH647_Smad2/Smad3_Smad9/S... + 7 (0.3%) ARCH895_Foxn4/Foxn1 + 7 (0.3%) 7 (0.3%) ARCH647_Smad2/Smad3_Smad9/S... + ARCH438_Spdef + 7 (0.3%) 7 (0.4%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 7 (0.3%) ARCH483_Tbx3/Tbx2 + 7 (0.3%) ARCH895_Foxn4/Foxn1 + 6 (0.3%) 6 (0.1%) ARCH438_Spdef + 6 (0.3%) 6 (0.1%) ARCH530_NFY ARCH530_Snai2 + ARCH895_Foxn4/Foxn1 + 5 (0.2%) 5 (0.1%) ARCH1408_GATA20 ARCH895_Foxn4/Foxn1 + ARCH438_Spdef + 5 (0.2%) 5 (0.3%) ARCH483_Tbx3/Tbx2 ARCH530_Snai2+ 4 (0.1%) ARCH647_Smad2/Smad3_Smad9/S... + 4 (0.2%) ARCH1408_GATA20 ARCH530_Snai2 + 4 (0.1%) ARCH895_Foxn4/Foxn1 + 4 (0.2%) ARCH483_Tbx3/Tbx2 ARCH530_Snai2 + ARCH438_Spdef + 4 (0.2%) 4 (0.0%) ARCH483_Tbx3/Tbx2 + 4 (0.2%) 4 (0.1%) ARCH895_Foxn4/Foxn1 + ARCH180_NFY + 4 (0.2%) 4 (0.0%) ARCH483_Tbx3/Tbx2 + 3 (0.1%) 3 (0.0%) ARCH1408 GATA20 ARCH530 Snai2 + ARCH180_NFY + 3 (0.1%) 3 (0.1%) ARCH1408_GATA20 ARCH895_Foxn4/Foxn1 + ARCH483_Tbx3/Tbx2 + 3 (0.1%) 3 (0.1%) ARCH180_NFY + 3 (0.1%) 3 (0.1%) ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + ARCH895_Foxn4/Foxn1 + 3 (0.1%) 3 (0.1%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smaq34_Smaq9/Spa 4 motifs 3 (0.1%) 3 (0.2%) CH483_Tbx3/Tbx2 + 18303148820 ARCH438_Spdef + ARCH438_NFY + ARCH483_ARCH483_ARCH647_Smad2/Smad34 3 (0.1%) 3 (0.1%) ARCH1408_GATA20 C 20 10 30 10 20 % of peaks

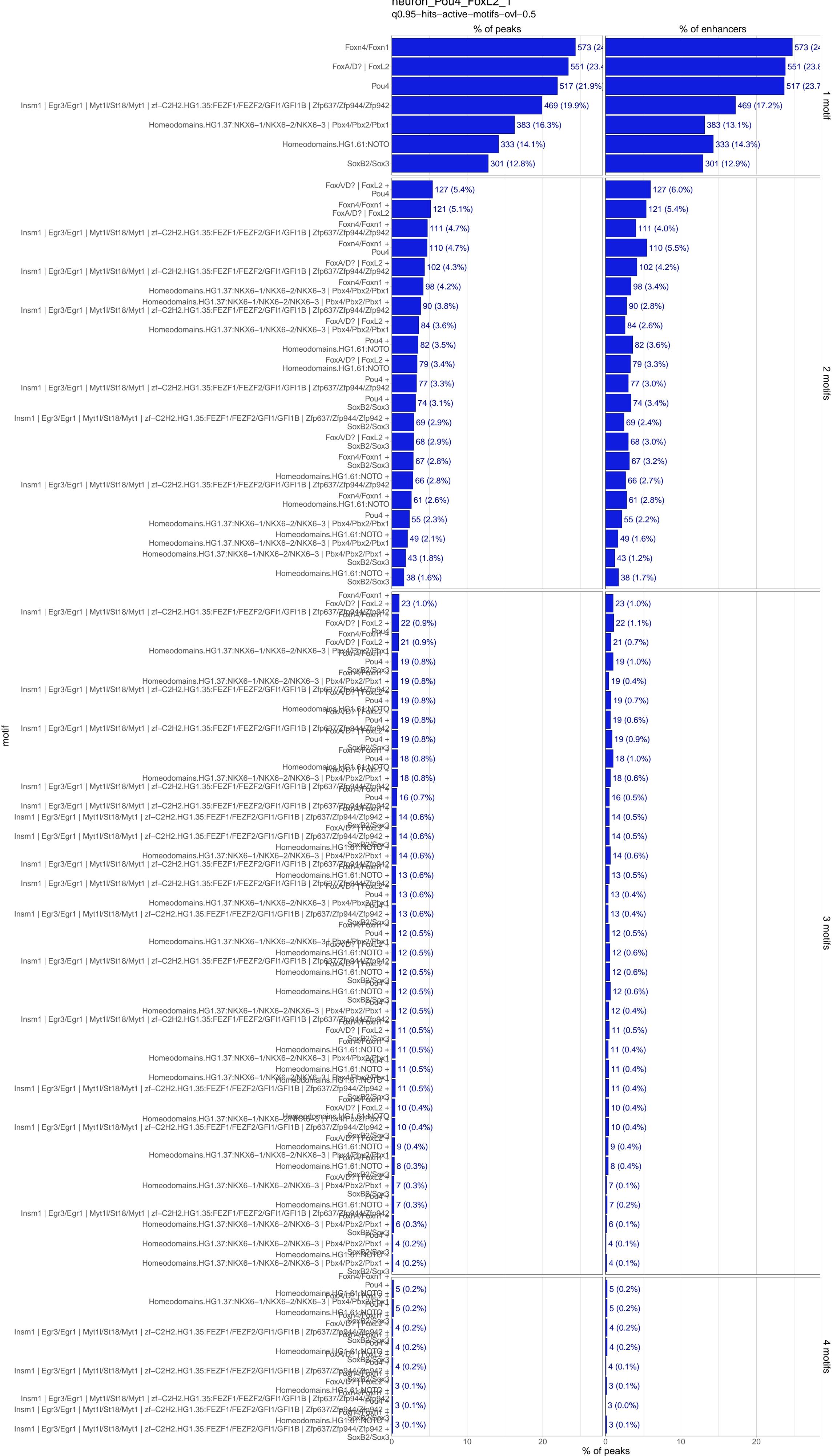




neuron_GATA_Islet_2 q0.9-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 796 (51.3% 796 (51.4% ARCH438_Spdef 772 (49.7%) 772 (50.1%) ARCH647_Smad2/Smad3_Smad9/S... 442 (28.9%) 442 (28.5%) ARCH895_Foxn4/Foxn1 379 (25.7%) 379 (24.4%) ARCH1503_Meis3/Meis2/Meis1_... 367 (23.6%) 367 (24.7%) ARCH1338_Barx2/Barx1_Dlx4/D.. 354 (22.8%) 354 (24.1%) ARCH1633_M02161_2.00 324 (20.9%) 324 (20.2%) ARCH1546_Meis3/Meis2/Meis1_... 315 (20.3%) 315 (19.7%) ARCH483_Tbx3/Tbx2 297 (19.1%) 297 (16.0%) ARCH178_Foxc2/Foxc1_Foxg1/G... motif 281 (18.4%) 281 (18.1%) ARCH1627_Xbp1 279 (14.3%) ARCH530_Snai2 279 (18.0%) 260 (16.8%) 260 (17.8%) ARCH88_Isl1 253 (16.3%) 253 (16.0%) ARCH1408_GATA20 253 (18.1%) 253 (16.3%) ARCH146 Alx3/Alx4/Alx1 Barx... 247 (15.4%) ARCH1291_Fox:Ebox 247 (15.9%) 199 (12.8%) 199 (12.1%) ARCH950_POU6F1 193 (12.4%) 193 (13.5%) ARCH1552_Pbx4/Pbx2/Pbx1 182 (12.2%) 182 (11.7%) ARCH169_Emx1/Emx2_Gbx1/Gbx2... 166 (9.6%) 166 (10.7%) ARCH745_Tfap4 ARCH438_Spdef + 399 (26.1%) 399 (25.7%) ARCH647_Smad2/Smad3_Smad9/S. ARCH895_Foxn4/Foxn1 + 248 (16.0%) 248 (16.7%) ARCH647_Smad2/Smad3_Smad9/S. ARCH438_Spdef + 230 (14.8%) 230 (15.0%) ARCH895_Foxn4/Foxn1 ARCH438_Spdef + 205 (13.5%) 205 (13.2%) ARCH1503 Meis3/Meis2/Meis1 . ARCH438 Spdef + 184 (11.9%) 184 (12.5%) ARCH1338_Barx2/Barx1_Dlx4/D. ARCH647_Smad2/Smad3_Smad9/S... + 180 (11.6%) 180 (12.4%) ARCH1503_Meis3/Meis2/Meis1_.. ARCH647_Smad2/Smad3_Smad9/S... + 180 (11.6%) 180 (12.2%) ARCH1338_Barx2/Barx1_Dlx4/D.. ARCH1633_M02161_2.00 + 176 (11.3%) 176 (12.2%) ARCH647_Smad2/Smad3_Smad9/S. ARCH438_Spdef + 172 (11.1%) 172 (10.9%) ARCH1546 Meis3/Meis2/Meis1 . ARCH1633_M02161_2.00 + 169 (10.9%) 169 (11.2%) ARCH438_Spdef ARCH647_Smad2/Smad3_Smad9/S... + 164 (10.6%) 164 (10.8%) ARCH483_Tbx3/Tbx2 ARCH438_Spdef + 162 (10.4%) 162 (11.1%) ARCH483 Tbx3/Tbx2 ARCH1546 Meis3/Meis2/Meis1 ... + 159 (10.2%) 159 (10.1%) ARCH647_Smad2/Smad3_Smad9/S... ARCH438_Spdef + 156 (9.0%) 156 (10.1%) ARCH178_Foxc2/Foxc1_Foxg1/G.. ARCH1627_Xbp1 + 150 (9.7%) 150 (10.0%) ARCH438_Spdef ARCH438_Spdef + 139 (9.0%) 139 (6.7%) ARCH530_Snai2 ARCH1627 Xbp1 + 136 (8.6%) 136 (8.8%) ARCH647_Smad2/Smad3_Smad9/S... ARCH647 Smad2/Smad3 Smad9/S... + 135 (8.7%) 135 (7.3%) ARCH178_Foxc2/Foxc1_Foxg1/G.. ARCH1408 GATA20 + 132 (8.5%) 132 (8.1%) ARCH647_Smad2/Smad3_Smad9/S... ARCH438_Spdef + 131 (7.8%) 131 (8.4%) ARCH1408_GATA20 ARCH647 Smad2/Smad3 Smad9/S... + 127 (8.2%) 127 (6.6%) ARCH530_Snai2 ARCH438_Spdef + 126 (8.7%) 126 (8.1%) ARCH146 Alx3/Alx4/Alx1 Barx... ARCH647 Smad2/Smad3 Smad9/S... + 126 (9.1%) 126 (8.1%) ARCH146_Alx3/Alx4/Alx1_Barx... ARCH438_Spdef + 125 (8.2%) 125 (8.1%) ARCH88 Isl1 ARCH438_Spdef + 117 (7.5%) 117 (7.5%) ARCH1291 Fox:Ebox ARCH88_Isl1 + 116 (7.5%) 116 (8.1%) ARCH647_Smad2/Smad3_Smad9/S... 2 ARCH647_Smad2/Smad3_Smad9/S... + 114 (7.3%) 114 (7.4%) motifs ARCH1291_Fox:Ebox ARCH895_Foxn4/Foxn1 + 107 (6.9%) 107 (7.1%) ARCH1338_Barx2/Barx1_Dlx4/D.. ARCH950_POU6F1 + 104 (6.7%) 104 (6.3%) ARCH438_Spdef ARCH950_POU6F1 + 100 (6.4%) 100 (5.8%) ARCH647_Smad2/Smad3_Smad9/S... ARCH895 Foxn4/Foxn1 + 99 (6.4%) 99 (6.2%) ARCH1503_Meis3/Meis2/Meis1_... ARCH647 Smad2/Smad3 Smad9/S... + 98 (6.9%) 98 (6.3%) ARCH1552_Pbx4/Pbx2/Pbx1 ARCH1633_M02161_2.00 + 97 (6.2%) 97 (7.1%) ARCH895_Foxn4/Foxn1 ARCH895 Foxn4/Foxn1 + 94 (5.9%) 94 (6.1%) ARCH483_Tbx3/Tbx2 ARCH647 Smad2/Smad3 Smad9/S... + 94 (6.1%) 94 (6.2%) ARCH169 Emx1/Emx2 Gbx1/Gbx2... ARCH1503 Meis3/Meis2/Meis1 ... + 94 (6.1%) 94 (6.5%) ARCH1338_Barx2/Barx1_Dlx4/D.. ARCH1633_M02161_2.00 + 91 (6.8%) 91 (5.9%) ARCH1338_Barx2/Barx1_Dlx4/D.. ARCH438 Spdef + 87 (5.6%) 87 (6.3%) ARCH169_Emx1/Emx2_Gbx1/Gbx2.. ARCH1408 GATA20 + 87 (5.6%) 87 (6.1%) ARCH895 Foxn4/Foxn1 ARCH438_Spdef + 86 (5.5%) 86 (6.1%) ARCH1552 Pbx4/Pbx2/Pbx1 ARCH438_Spdef + 82 (5.3%) 82 (4.5%) ARCH745_Tfap4 ARCH895_Foxn4/Foxn1 + 82 (5.3%) 82 (3.8%) ARCH530_Snai2 ARCH647_Smad2/Smad3_Smad9/S... + 82 (5.3%) 82 (4.5%) ARCH745 Tfap4 ARCH895 Foxn4/Foxn1 + 81 (5.2%) 81 (4.6%) ARCH178_Foxc2/Foxc1_Foxg1/G... ARCH1627_Xbp1 + 80 (5.2%) 80 (5.8%) ARCH895_Foxn4/Foxn1 ARCH1546_Meis3/Meis2/Meis1_... + 80 (5.2%) 80 (5.6%) ARCH1338_Barx2/Barx1_Dlx4/D... ARCH1633 M02161 2.00 + 79 (5.1%) 79 (5.4%) ARCH1503_Meis3/Meis2/Meis1_... ARCH1546 Meis3/Meis2/Meis1 ... + 78 (5.0%) 78 (4.4%) ARCH895_Foxn4/Foxn1 ARCH1546 Meis3/Meis2/Meis1_... + 76 (4.9%) 76 (4.7%) ARCH1503_Meis3/Meis2/Meis1_... ARCH483_Tbx3/Tbx2 + 76 (5.4%) 76 (4.9%) ARCH1503_Meis3/Meis2/Meis1_... ARCH483 Tbx3/Tbx2 + 76 (5.2%) 76 (4.9%) ARCH1338_Barx2/Barx1_Dlx4/D... ARCH1633_M02161_2.00 + 73 (4.7%) 73 (5.0%) ARCH1546_Meis3/Meis2/Meis1_... ARCH895_Foxn4/Foxn1 + 72 (4.6%) 72 (5.3%) ARCH146_Alx3/Alx4/Alx1_Barx... ARCH1338_Barx2/Barx1_Dlx4/D... + 72 (4.6%) 72 (4.7%) ARCH1291_Fox:Ebox ARCH438_Spdef + 120 (8.6%) 120 (7.7%) ARCH895 Foxn4/Foxn1 + ARCH647_Smad2/\$\mad\text{33m8p3}\text{35m8p3 101 (6.7%) 101 (6.5%) ARCH647_Smad2/Smad3_Smad9/S... + ARCH1503_Meis@Meis@Meisdef.+ ယ ARCH647_Smad2/Smad3_Smad9/S... + 90 (5.8%) 90 (6.4%) motifs ARCH1338_Barx 2/Barx38_D3x4/67.+ ARCH1546_Meis3/Meis2/Meis1_... + 89 (5.7%) 89 (5.9%) ARCH647_A\$n_0ad/26\$nad/6256nad/9/6.+ 87 (5.6%) 87 (5.5%) ARCH438_Spdef + ARCH647_Smad2/\$\mad\text{33m8p3}\text{35m8p3 78 (5.0%) 78 (5.5%) ARCH647_Smad2/Smad3_Smad9/S... + ARCH483_Tbx3/Tbx2 10 20 20 30 40 50 30 40 50 10 % of peaks



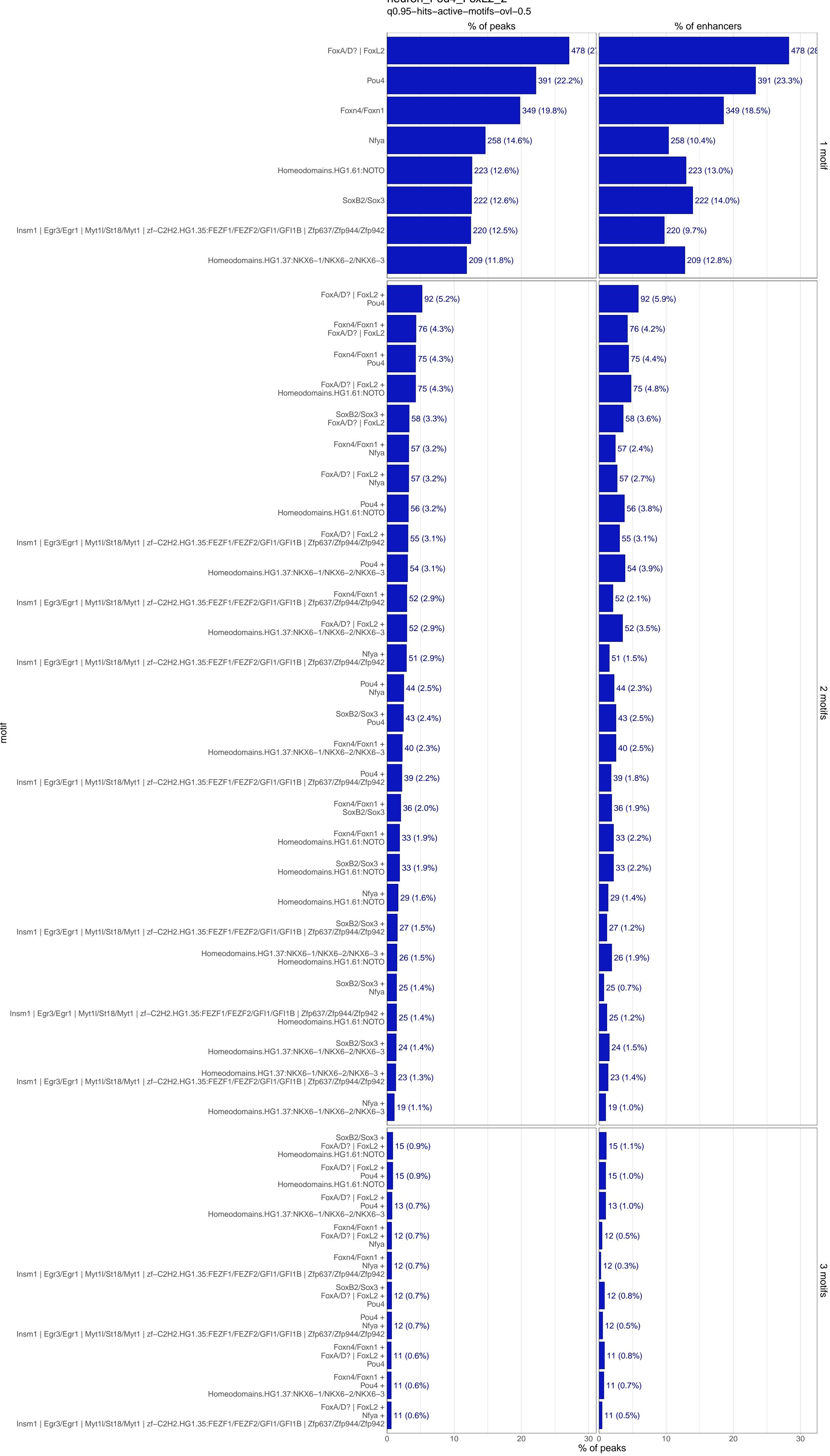




neuron_Pou4_FoxL2_2 q0.9-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 852 (47.0% 852 (46.1% ARCH438_Spdef 700 (38.7%) 700 (39.5%) ARCH647_Smad2/Smad3_Smad9/S... 518 (28.6%) 518 (29.3%) ARCH56_POU4F1 435 (24.0%) 435 (22.1%) ARCH895_Foxn4/Foxn1 427 (23.8%) 427 (23.6%) ARCH1420_RUNX2-417 (23.0%) 417 (22.5%) ARCH646_Msantd4/Mypop_Terf2ip-404 (22.3%) 404 (21.4%) ARCH483_Tbx3/Tbx2-332 (18.3%) 332 (14.3%) ARCH121_Nfya_Pbx4/Pbx2/Pbx1 309 (14.3%) ARCH530_Snai2 309 (17.1%) 299 (18.0%) ARCH1102_Foxa3/Foxa1/Foxa2_... 299 (16.5%) 1 motif 268 (14.3%) ARCH867_ZEB1__PL0011.1_hlh-... 268 (14.8%) 244 (13.5%) 244 (13.1%) ARCH1408_GATA20-ARCH1338_Barx2/Barx1_Dlx4/D... 239 (13.2%) 239 (14.2%) 235 (13.2%) 235 (13.0%) ARCH1088_Arid5b/Arid5a ARCH1627_Xbp1 231 (12.8%) 231 (12.9%) 217 (12.0%) 217 (12.6%) ARCH1200_Zfp760/Zfp770-ARCH521_Zic2__Unknown-ESC-e... 215 (11.3%) 215 (11.9%) ARCH1552_Pbx4/Pbx2/Pbx1 208 (11.5%) 208 (11.2%) 206 (11.2%) ARCH379_RDS1__M06389_2.00 206 (11.4%) 199 (11.0%) 199 (11.4%) ARCH975_Foxd2/Foxd4/Foxd3/F... 184 (10.2%) ARCH1018_Foxc2/Foxc1_Foxd2/... 184 (11.3%) ARCH647_Smad2/Smad3_Smad9/S... + 356 (19.7%) 356 (19.6%) ARCH438_Spdef ARCH56_POU4F1 + 247 (13.6%) 247 (13.6%) ARCH438_Spdef ARCH438_Spdef + 206 (11.4%) 206 (10.2%) ARCH895_Foxn4/Foxn1 ARCH1420_RUNX2 + 197 (10.9%) 197 (10.4%) ARCH438_Spdef ARCH438_Spdef + 195 (10.8%) 195 (10.0%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 189 (11.2%) 189 (10.4%) ARCH56_POU4F1 ARCH647_Smad2/Smad3_Smad9/S... + 188 (10.4%) 188 (9.7%) ARCH895_Foxn4/Foxn1 ARCH438_Spdef + 188 (10.4%) 188 (10.2%) ARCH646_Msantd4/Mypop_Terf2ip ARCH1420_RUNX2 + 158 (8.7%) 158 (9.3%) ARCH647_Smad2/Smad3_Smad9/S... ARCH438_Spdef + 157 (8.7%) 157 (9.4%) ARCH1102_Foxa3/Foxa1/Foxa2_.. ARCH647_Smad2/Smad3_Smad9/S... + 150 (8.3%) 150 (7.4%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 149 (8.2%) 149 (8.1%) ARCH646_Msantd4/Mypop_Terf2ip ARCH438_Spdef + 145 (8.0%) 145 (6.3%) ARCH121_Nfya_Pbx4/Pbx2/Pbx1 ARCH438_Spdef + 138 (7.6%) 138 (6.3%) ARCH530_Snai2 ARCH438_Spdef + 127 (6.6%) 127 (7.0%) ARCH1408_GATA20 ARCH438_Spdef + 124 (6.8%) 124 (6.9%) ARCH1627_Xbp1 ARCH647_Smad2/Smad3_Smad9/S... + 121 (6.7%) 121 (6.0%) ARCH121_Nfya_Pbx4/Pbx2/Pbx1 ARCH56 POU4F1 + 117 (6.8%) 117 (6.5%) ARCH895_Foxn4/Foxn1 ARCH438_Spdef + 117 (5.8%) 117 (6.5%) ARCH867_ZEB1__PL0011.1_hlh-... ARCH1420_RUNX2 + 113 (6.2%) 113 (7.1%) ARCH56_POU4F1 ARCH647 Smad2/Smad3 Smad9/S... + 113 (6.6%) 113 (6.2%) ARCH1102_Foxa3/Foxa1/Foxa2_.. ARCH647_Smad2/Smad3_Smad9/S... + 113 (6.2%) 113 (6.2%) ARCH867_ZEB1__PL0011.1_hlh-... ARCH1088 Arid5b/Arid5a + 110 (5.9%) 110 (6.1%) ARCH438_Spdef ARCH647_Smad2/Smad3_Smad9/S... + 109 (6.0%) 109 (4.8%) ARCH530_Snai2 2 motifs ARCH438_Spdef + 106 (6.2%) 106 (5.9%) ARCH1338_Barx2/Barx1_Dlx4/D... ARCH895_Foxn4/Foxn1 + 104 (5.7%) 104 (5.2%) ARCH483_Tbx3/Tbx2 ARCH438_Spdef + 103 (6.4%) 103 (5.7%) ARCH1200_Zfp760/Zfp770 ARCH56_POU4F1 + 100 (5.4%) 100 (5.5%) ARCH483_Tbx3/Tbx2 ARCH895_Foxn4/Foxn1 + 100 (5.5%) 100 (5.3%) ARCH646_Msantd4/Mypop_Terf2ip ARCH646_Msantd4/Mypop_Terf2ip + 100 (4.7%) 100 (5.5%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 98 (5.4%) 98 (5.8%) ARCH1338_Barx2/Barx1_Dlx4/D... ARCH438_Spdef + 97 (5.4%) 97 (5.2%) ARCH521_Zic2__Unknown_ESC-e... ARCH438_Spdef + 96 (5.3%) 96 (5.3%) ARCH1552_Pbx4/Pbx2/Pbx1 ARCH1420 RUNX2 + 95 (5.2%) 95 (5.2%) ARCH483_Tbx3/Tbx2 ARCH56_POU4F1 + 95 (5.2%) 95 (5.4%) ARCH646_Msantd4/Mypop_Terf2ip ARCH438_Spdef + 94 (5.2%) 94 (4.9%) ARCH379_RDS1__M06389_2.00 ARCH647_Smad2/Smad3_Smad9/S... + 93 (5.1%) 93 (5.2%) ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 92 (5.1%) 92 (5.6%) ARCH1200_Zfp760/Zfp770 ARCH1088_Arid5b/Arid5a + 91 (5.0%) 91 (5.9%) ARCH647_Smad2/Smad3_Smad9/S... ARCH647_Smad2/Smad3_Smad9/S... + 91 (5.4%) 91 (5.0%) ARCH379_RDS1__M06389_2.00 ARCH438_Spdef + 90 (4.8%) 90 (5.0%) ARCH975_Foxd2/Foxd4/Foxd3/F... ARCH56_POU4F1 + 88 (4.9%) 88 (5.5%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH1420 RUNX2 + 87 (4.8%) 87 (3.9%) ARCH895_Foxn4/Foxn1 ARCH1420_RUNX2 + 86 (4.9%) 86 (4.7%) ARCH646_Msantd4/Mypop_Terf2ip ARCH647_Smad2/Smad3_Smad9/S... + 86 (4.7%) 86 (4.8%) ARCH1627_Xbp1 ARCH121_Nfya_Pbx4/Pbx2/Pbx1 + 86 (4.7%) 86 (3.5%) ARCH483_Tbx3/Tbx2 ARCH1018_Foxc2/Foxc1_Foxd2/... + 82 (4.5%) 82 (5.2%) ARCH438_Spdef ARCH895_Foxn4/Foxn1 + 82 (3.1%) 82 (4.5%) ARCH121_Nfya_Pbx4/Pbx2/Pbx1 ARCH647_Smad2/Smad3_Smad9/S... + 81 (4.5%) 81 (4.6%) ARCH521_Zic2__Unknown-ESC-e... ARCH647_Smad2/Smad3_Smad9/S... + 97 (5.4%) 97 (4.8%) ARCH438_Spdef + motifs ARCH647_Smad27SH805_SAX049F9Xn1 91 (5.0%) 91 (5.5%) ARCH56 POU4F1 + ARCH438_Spdef 10 20 30 10 20 30 40 40 50 50 % of peaks

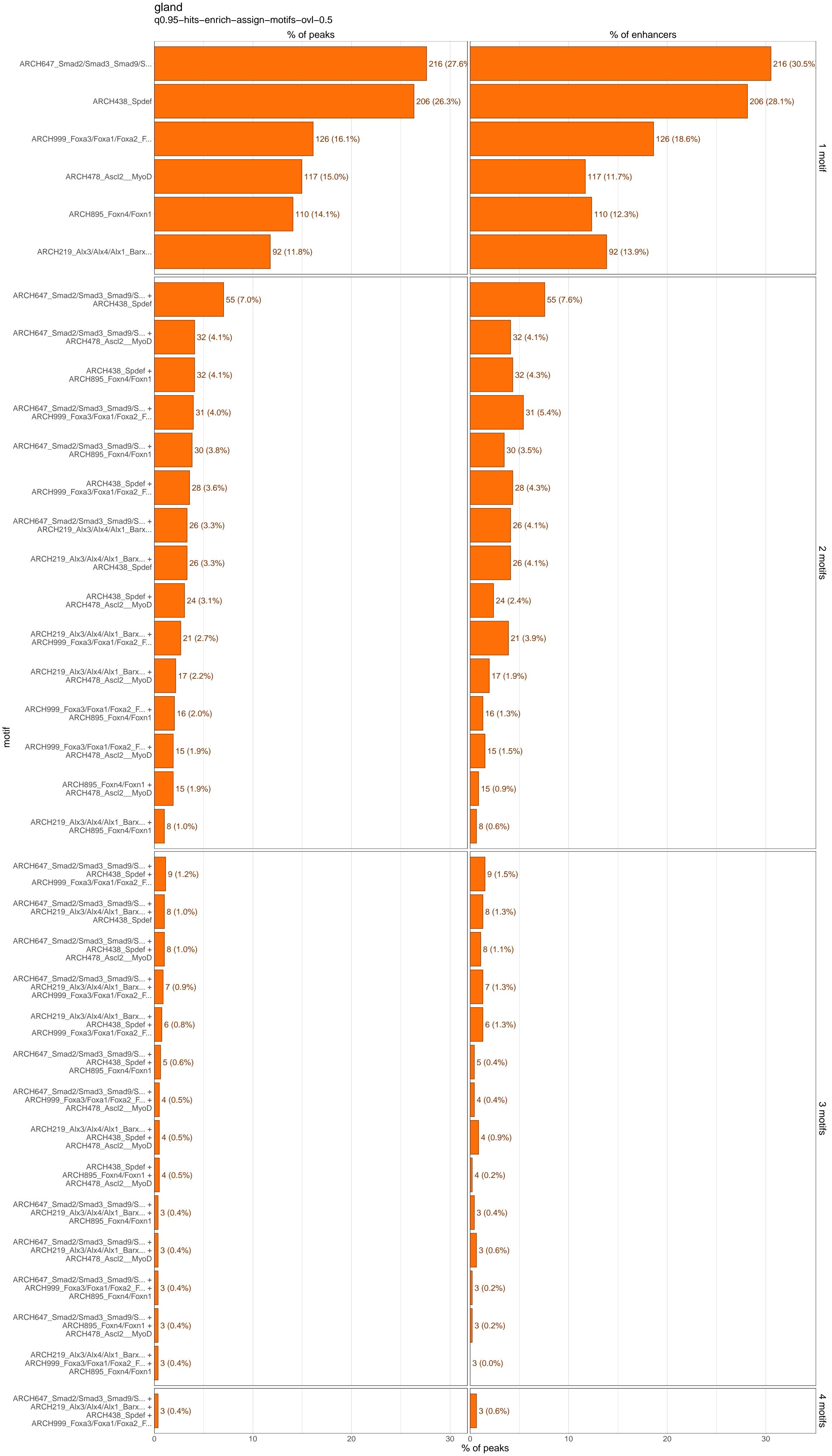
neuron_Pou4_FoxL2_2 q0.95-hits-enrich-assign-motifs-ovl-0.5 % of enhancers % of peaks 430 (23.7% 430 (24.1% ARCH438_Spdef ARCH56_POU4F1 391 (21.6%) 391 (22.6%) 354 (19.5%) 354 (19.7%) ARCH647_Smad2/Smad3_Smad9/S... ARCH646_Msantd4/Mypop_Terf2ip-285 (15.7%) 285 (16.1%) 1 motif 241 (13.3%) 241 (13.1%) ARCH15_HNRNPC ARCH1269_Runx3/Runx2/Runx1 239 (13.2%) 239 (13.8%) 220 (12.1%) 220 (12.3%) ARCH1420_RUNX2 ARCH531_Slug 209 (11.5%) 209 (8.9%) ARCH1102_Foxa3/Foxa1/Foxa2_... 206 (11.4%) 206 (12.0%) 195 (9.9%) 195 (10.8%) ARCH483_Tbx3/Tbx2-ARCH647_Smad2/Smad3_Smad9/S... + 94 (5.2%) 94 (4.6%) ARCH438_Spdef ARCH56_POU4F1 + 83 (4.6%) 83 (4.5%) ARCH438_Spdef ARCH647_Smad2/Smad3_Smad9/S... + ARCH56_POU4F1 72 (4.0%) 72 (4.2%) ARCH646_Msantd4/Mypop_Terf2ip + 72 (4.0%) 72 (4.0%) ARCH438_Spdef ARCH1420_RUNX2 + 60 (2.8%) 60 (3.3%) ARCH438_Spdef ARCH483_Tbx3/Tbx2 + 55 (2.4%) 55 (3.0%) ARCH438_Spdef ARCH15_HNRNPC + 55 (3.0%) 55 (3.2%) ARCH438_Spdef ARCH56_POU4F1 + 52 (3.1%) 52 (2.9%) ARCH646_Msantd4/Mypop_Terf2ip ARCH56 POU4F1 + 52 (2.9%) 52 (2.8%) ARCH15_HNRNPC ARCH647_Smad2/Smad3_Smad9/S... + 51 (2.8%) 51 (3.0%) ARCH646_Msantd4/Mypop_Terf2ip ARCH1420_RUNX2 + 46 (2.7%) 46 (2.5%) ARCH647_Smad2/Smad3_Smad9/S... ARCH1102_Foxa3/Foxa1/Foxa2_... + 46 (3.0%) 46 (2.5%) ARCH438_Spdef ARCH1269_Runx3/Runx2/Runx1 + 44 (2.4%) 44 (2.8%) ARCH438_Spdef ARCH1269_Runx3/Runx2/Runx1 + 43 (2.4%) 43 (2.8%) ARCH647_Smad2/Smad3_Smad9/S... ARCH531_Slug + 42 (2.0%) 42 (2.3%) ARCH438_Spdef ARCH1420_RUNX2 + 41 (2.3%) 41 (2.2%) ARCH56_POU4F1 ARCH646_Msantd4/Mypop_Terf2ip + 41 (2.3%) 41 (2.3%) ARCH15_HNRNPC ARCH1269_Runx3/Runx2/Runx1 + 40 (2.2%) 40 (2.5%) ARCH56_POU4F1 ARCH647_Smad2/Smad3_Smad9/S... + 40 (2.2%) 40 (2.4%) ARCH15_HNRNPC ARCH56_POU4F1 + 39 (2.2%) 39 (1.9%) ARCH531_Slug ARCH1420_RUNX2 + 38 (2.4%) 38 (2.1%) ARCH15_HNRNPC ARCH483_Tbx3/Tbx2 + 38 (1.7%) 38 (2.1%) ARCH56_POU4F1 2 motifs ARCH647_Smad2/Smad3_Smad9/S... + 37 (1.5%) 37 (2.0%) motif ARCH483_Tbx3/Tbx2 ARCH483_Tbx3/Tbx2 + 37 (2.2%) 37 (2.0%) ARCH646_Msantd4/Mypop_Terf2ip ARCH647_Smad2/Smad3_Smad9/S... + 36 (2.0%) 36 (2.0%) ARCH531_Slug ARCH56_POU4F1 + 36 (2.0%) 36 (2.3%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH1102_Foxa3/Foxa1/Foxa2_... + 35 (1.9%) 35 (2.5%) ARCH646_Msantd4/Mypop_Terf2ip ARCH1420_RUNX2 + 33 (1.7%) 33 (1.8%) ARCH646_Msantd4/Mypop_Terf2ip ARCH647_Smad2/Smad3_Smad9/S... + 33 (1.8%) 33 (1.8%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH1420_RUNX2 + 32 (1.8%) 32 (2.1%) ARCH1269_Runx3/Runx2/Runx1 ARCH1269_Runx3/Runx2/Runx1 + 30 (1.9%) 30 (1.7%) ARCH15_HNRNPC ARCH1420_RUNX2 + 28 (1.8%) 28 (1.5%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH1269_Runx3/Runx2/Runx1 + 28 (1.5%) 28 (1.8%) ARCH483_Tbx3/Tbx2 ARCH1269_Runx3/Runx2/Runx1 + 27 (1.5%) 27 (1.8%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH1102_Foxa3/Foxa1/Foxa2_... + 27 (1.8%) 27 (1.5%) ARCH15_HNRNPC ARCH483 Tbx3/Tbx2 + 25 (1.0%) 25 (1.4%) ARCH531_Slug ARCH1420_RUNX2 + 24 (1.3%) 24 (1.2%) ARCH483_Tbx3/Tbx2 ARCH1269_Runx3/Runx2/Runx1 + 23 (1.3%) 23 (1.3%) ARCH646_Msantd4/Mypop_Terf2ip ARCH483_Tbx3/Tbx2 + 23 (1.3%) 23 (1.0%) ARCH15_HNRNPC ARCH1269_Runx3/Runx2/Runx1 + 22 (1.2%) 22 (1.1%) ARCH531_Slug ARCH531_Slug + 22 (1.2%) 22 (1.0%) ARCH646_Msantd4/Mypop_Terf2ip ARCH531_Slug + 22 (1.2%) 22 (0.8%) ARCH15_HNRNPC ARCH1420_RUNX2 + 21 (1.2%) 21 (0.8%) ARCH531_Slug ARCH483_Tbx3/Tbx2 + 20 (1.3%) 20 (1.1%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH1102_Foxa3/Foxa1/Foxa2_... + 18 (1.0%) 18 (1.1%) ARCH531_Slug ARCH647_Smad2/Smad3_Smad9/S... + 19 (0.9%) ARCH56_POU4F1 + 19 (1.0%) ARCARCH438 Spdef 14 (0.6%) ARCH647_Smad2/Smad3_Smad9/S... + 14 (0.8%) ARCH647_Smad2/Smad3_Smad9/S...+ ARCH483_Tbx3/Tbx2 + 14 (0.5%) 14 (0.8%) ARCH56 POU4F1+ ARCH646_Msantd4/Mypop_Terf2ip + 13 (0.7%) 13 (0.7%) ARCH1102_Foxa3/Foxa1/Foxa2 ... + ARCH646_Msantd4/Mypop_Terf2ip + 13 (1.0%) 13 (0.7%) ယ motifs ARCH56_POU4F1 + 12 (0.7%) 12 (0.3%) 12 (0.7%) ARCH15_HNRNPC + 12 (0.5%) ARCH647_Smad2/Smad3_Smad9/S...+ ARCH646_Msantd4/Mypop_Terf2ip + 12 (0.6%) 12 (0.7%) ARCH647_Smad2/Smad3_Smad9/S...+ ARCH56_POU4F1 + 11 (0.6%) 11 (0.7%) ARCH646_Msantd4/Mypop_Terf2ip ARCH646_Msantd4/Mypop_Terf2ip + ARCH438_Spdef ARCH56_POU4F1+ 11 (0.7%) 11 (0.6%) ARCH15_HNRNPC + ARCH438_Spdef 11 (0.6%) 11 (0.6%) 10 10 20 20 % of peaks

neuron_Pou4_FoxL2_2 % of peaks



neuron_Pou4_FoxL2_3 q0.9-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 1223 (55.0) 1223 (56.39 ARCH438_Spdef 988 (44.4%) 988 (45.5%) ARCH647_Smad2/Smad3_Smad9/S... 780 (35.1%) 780 (34.4%) ARCH895_Foxn4/Foxn1 ARCH56_POU4F1 657 (29.5%) 657 (29.9%) 525 (23.6%) 525 (22.5%) ARCH483 Tbx3/Tbx2-486 (21.8%) 486 (19.0%) ARCH121_Nfya_Pbx4/Pbx2/Pbx1 467 (21.0%) 467 (16.9%) ARCH530_Snai2 456 (22.0%) 456 (20.5%) ARCH521_Zic2__Unknown-ESC-e... 384 (17.9%) 384 (17.3%) ARCH1408_GATA20 ARCH129_PB0178.1_Sox8_2 314 (14.1%) 314 (14.4%) 312 (14.0%) 312 (14.6%) ARCH1177_/Sox4/Sox11_Sox13/... motif 267 (12.0%) 267 (11.6%) ARCH646_Msantd4/Mypop_Terf2ip 264 (11.9%) 264 (11.7%) ARCH1088 Arid5b/Arid5a 264 (11.9%) 264 (11.9%) ARCH1102_Foxa3/Foxa1/Foxa2_.. 259 (11.5%) 259 (11.6%) ARCH86_Alx3/Alx4/Alx1_Barx2... 249 (11.4%) ARCH66_Barx2/Barx1_Dlx4/Dlx... 249 (11.2%) 249 (11.9%) 249 (11.2%) ARCH13_Arid2_Arid3c/Arid3a/... 240 (10.8%) 240 (11.3%) ARCH1627_Xbp1 239 (10.7%) 239 (11.7%) ARCH1338_Barx2/Barx1_Dlx4/D... 236 (10.6%) 236 (11.4%) ARCH287_Alx3/Alx4/Alx1_Barx... 234 (11.2%) 234 (10.5%) ARCH1420_RUNX2 ARCH1169_/Sox4/Sox11_Sox13/.. 233 (10.5%) 233 (10.0%) 233 (10.5%) 233 (9.3%) ARCH1091_Nr2c1/Nr2c2_Nr2f1/... ARCH647_Smad2/Smad3_Smad9/S... + 532 (23.9%) 532 (25.1%) ARCH438_Spdef ARCH895 Foxn4/Foxn1 + 454 (20.4%) 454 (20.2%) ARCH438_Spdef ARCH438_Spdef + 359 (16.1%) 359 (17.0%) ARCH56_POU4F1 ARCH647_Smad2/Smad3_Smad9/S... + 343 (15.4%) 343 (15.3%) ARCH895_Foxn4/Foxn1 ARCH438_Spdef + 302 (12.8%) 302 (13.6%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 297 (13.3%) 297 (13.7%) ARCH56_POU4F1 ARCH438_Spdef + 261 (10.7%) 261 (11.7%) ARCH121_Nfya_Pbx4/Pbx2/Pbx1 ARCH438_Spdef + 250 (11.2%) 250 (9.5%) ARCH530_Snai2 ARCH438_Spdef + 244 (11.0%) 244 (11.6%) ARCH521_Zic2__Unknown-ESC-e.. ARCH647_Smad2/Smad3_Smad9/S... + 233 (10.5%) 233 (10.3%) ARCH483_Tbx3/Tbx2 ARCH438_Spdef + 226 (10.9%) 226 (10.2%) ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 220 (9.9%) 220 (8.9%) ARCH121_Nfya_Pbx4/Pbx2/Pbx1 ARCH895 Foxn4/Foxn1 + 218 (10.1%) 218 (9.8%) ARCH56_POU4F1 ARCH647_Smad2/Smad3_Smad9/S... + 202 (10.4%) 202 (9.1%) ARCH521_Zic2__Unknown-ESC-e.. ARCH895_Foxn4/Foxn1 + 186 (8.4%) 186 (7.3%) ARCH483_Tbx3/Tbx2 ARCH1177_/Sox4/Sox11_Sox13/... + 184 (8.7%) 184 (8.3%) ARCH438_Spdef ARCH647_Smad2/Smad3_Smad9/S... + 182 (7.0%) 182 (8.2%) ARCH530_Snai2 ARCH647_Smad2/Smad3_Smad9/S... + 177 (8.0%) 177 (8.0%) ARCH1408_GATA20 ARCH895_Foxn4/Foxn1 + 167 (5.7%) 167 (7.5%) ARCH530_Snai2 ARCH895 Foxn4/Foxn1 + 164 (7.8%) 164 (7.4%) ARCH521_Zic2__Unknown-ESC-e.. ARCH438 Spdef + 162 (7.3%) 162 (7.1%) ARCH646_Msantd4/Mypop_Terf2ip ARCH438_Spdef + 162 (7.3%) 162 (8.0%) ARCH129_PB0178.1_Sox8_2 ARCH1088_Arid5b/Arid5a + 155 (7.1%) 155 (7.0%) 2 ARCH438_Spdef motifs ARCH895_Foxn4/Foxn1 + 151 (6.8%) 151 (5.8%) ARCH121_Nfya_Pbx4/Pbx2/Pbx1 ARCH438_Spdef + 149 (6.6%) 149 (6.7%) ARCH86_Alx3/Alx4/Alx1_Barx2... ARCH647_Smad2/Smad3_Smad9/S... + 148 (7.3%) 148 (6.7%) ARCH129_PB0178.1_Sox8_2 ARCH438_Spdef + 147 (6.6%) 147 (7.2%) ARCH13_Arid2_Arid3c/Arid3a/.. ARCH56 POU4F1 + 144 (6.2%) 144 (6.5%) ARCH483 Tbx3/Tbx2 ARCH1177_/Sox4/Sox11_Sox13/... + 142 (6.4%) 142 (6.8%) ARCH647 Smad2/Smad3 Smad9/S... ARCH438_Spdef + 141 (6.6%) 141 (6.3%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH438_Spdef + 141 (6.3%) 141 (6.7%) ARCH1420_RUNX2 ARCH895 Foxn4/Foxn1 + 140 (6.6%) 140 (6.3%) ARCH1408_GATA20 ARCH438_Spdef + 137 (6.2%) 137 (6.4%) ARCH66_Barx2/Barx1_Dlx4/Dlx... ARCH438_Spdef + 133 (6.0%) 133 (6.2%) ARCH1627_Xbp1 ARCH1169_/Sox4/Sox11_Sox13/... + 127 (5.7%) 127 (5.3%) ARCH438_Spdef ARCH56 POU4F1 + 126 (5.7%) 126 (5.3%) ARCH121_Nfya_Pbx4/Pbx2/Pbx1 ARCH438_Spdef + 123 (6.7%) 123 (5.5%) ARCH1338_Barx2/Barx1_Dlx4/D... ARCH647 Smad2/Smad3 Smad9/S... + 121 (5.4%) 121 (5.5%) ARCH646_Msantd4/Mypop_Terf2ip ARCH438_Spdef + 121 (5.4%) 121 (5.2%) ARCH1091_Nr2c1/Nr2c2_Nr2f1/... ARCH647 Smad2/Smad3 Smad9/S... + 120 (6.0%) 120 (5.4%) ARCH1338_Barx2/Barx1_Dlx4/D... ARCH121_Nfya_Pbx4/Pbx2/Pbx1 + 120 (4.2%) 120 (5.4%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 115 (5.3%) 115 (5.2%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH647 Smad2/Smad3 Smad9/S... + 115 (5.3%) 115 (5.2%) ARCH1627_Xbp1 ARCH438_Spdef + 112 (5.0%) 112 (5.8%) ARCH287_Alx3/Alx4/Alx1_Barx... ARCH530_Snai2 + 112 (5.0%) 112 (4.2%) ARCH56_POU4F1 ARCH1408_GATA20 + 112 (5.0%) 112 (4.5%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 111 (5.5%) 111 (5.0%) ARCH66_Barx2/Barx1_Dlx4/Dlx... ARCH647_Smad2/Smad3_Smad9/S... + 181 (8.1%) 181 (8.0%) ARCH895 Foxn4/Foxn1 + ARCH647_Smad2/Smad8C\$H4389&pdef ARCH438_Spdef + 150 (6.7%) 150 (7.3%) ARCH647_Smad2/SnARGH56aR9/84F1 132 (5.7%) 132 (5.9%) ARCH438_Spdef + motifs ARCHROBIASSANTARSATAX2 123 (5.8%) 123 (5.5%) ARCH438_Spdef + ARCH8989t4564PPOWHF1 119 (4.4%) ARCH438_Spdef + 119 (5.3%) ARCH647_Smad2/SRGHd488mTax9/Sbx2 117 (5.3%) 117 (5.1%) ARCH438_Spdef + ARCH121_Nfya_Pbx4/Pbx2/Pbx1 20 40 20 60 40 60 % of peaks





gland q0.95-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 192 (2 192 (26.9 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 187 (25. 187 (28 Arid3c/Arid3a/Arid3b 165 (22.3%) 165 (15.5%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 motif 148 (20.0%) 148 (19.2%) Foxn4/Foxn1 104 (14.1%) 104 (8.8%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 85 (11.3%) 85 (11.5%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 NvSox2 | NvSoxC 85 (11.5%) 85 (11.6%) Arid3c/Arid3a/Arid3b + 45 (5.1%) 45 (6.1%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Arid3c/Arid3a/Arid3b + 39 (5.3%) 39 (6.0%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 35 (4.7%) 35 (3.9%) Foxn4/Foxn1 Arid3c/Arid3a/Arid3b + 33 (4.5%) 33 (5.3%) Foxn4/Foxn1 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 33 (4.5%) 33 (3.2%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 30 (4.1%) 30 (1.6%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 27 (3.7%) 27 (2.3%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 27 (3.7%) 27 (3.7%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 Foxn4/Foxn1 + 26 (2.5%) 26 (3.5%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Arid3c/Arid3a/Arid3b + 25 (3.4%) 25 (2.3%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 1 motifs Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 23 (3.1%) 23 (3.0%) NvSox2 | NvSoxC Arid3c/Arid3a/Arid3b + 22 (3.0%) 22 (2.8%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 Foxn4/Foxn1 + 20 (2.7%) 20 (1.2%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 19 (2.6%) 19 (1.9%) NvSox2 | NvSoxC Foxn4/Foxn1 + 17 (2.3%) 17 (2.3%) NvSox2 | NvSoxC Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 17 (1.2%) 17 (2.3%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 Arid3c/Arid3a/Arid3b + 14 (1.9%) 14 (1.6%) NvSox2 | NvSoxC Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 14 (1.9%) 14 (1.9%) NvSox2 | NvSoxC Foxn4/Foxn1 + 13 (1.8%) 13 (1.4%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 10 (0.9%) 10 (1.4%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 + 9 (1.2%) 9 (1.2%) NvSox2 | NvSoxC Arid3c/Arid3a/Arid3b + 9 (1.2%) 9 (1.2%) Foxn4/Foxn1 + Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Arid3c/Arid3a/Arid3b + 9 (0.7%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 9 (1.2%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 9 (1.2%) 9 (0.5%) Foxn4/Foxn1 + Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Arid3c/Arid3a/Arid3b + 8 (1.4%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 8 (1.1%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Arid3c/Arid3a/Arid3b + 7 (0.9%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 7 (0.2%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 7 (0.9%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 7 (0.7%) 7 (0.9%) Foxn4/Foxn1 + NvSox2 | NvSoxC Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 7 (0.7%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 7 (0.9%) 7 (0.7%) NvSox2 | NvSoxC Arid3c/Arid3a/Arid3b + Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 6 (0.8%) 6 (0.9%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 Arid3c/Arid3a/Arid3b + 5 (0.7%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 5 (0.7%) Foxn4/Foxn1 Arid3c/Arid3a/Arid3b + 5 (0.7%) 5 (0.2%) Foxn4/Foxn1 + Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 5 (0.7%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 5 (0.7%) NvSox2 | NvSoxC Arid3c/Arid3a/Arid3b + ယ Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 4 (0.5%) 4 (0.5%) motifs NvSox2 | NvSoxC Arid3c/Arid3a/Arid3b + 4 (0.5%) Foxn4/Foxn1 + $\frac{1}{4}$ (0.5%) NvSox2 | NvSoxC Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 4 (0.5%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 4 (0.5%) 4 (0.2%) NvSox2 | NvSoxC Foxn4/Foxn1 + Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 4 (0.0%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Arid3c/Arid3a/Arid3b + 3 (0.5%) Foxn4/Foxn1 + $\frac{1}{3}$ (0.4%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 Arid3c/Arid3a/Arid3b + Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 3 (0.4%) 3 (0.0%) NvSox2 | NvSoxC Arid3c/Arid3a/Arid3b + HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 + 3 (0.4%) 3 (0.5%) NvSox2 | NvSoxC Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Foxn4/Foxn1 + $\frac{1}{3}$ (0.4%) 3 (0.0%) Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 + 3 (0.4%) 3 (0.2%) NvSox2 | NvSoxC Foxn4/Foxn1 + 3 (0.0%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 3 (0.4%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 Foxn4/Foxn1 + Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 3 (0.4%) 3 (0.0%) NvSox2 | NvSoxC Foxn4/Foxn1 + 3 (0.2%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 3 (0.4%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 Foxn4/Foxn1 + Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 3 (0.4%) 3 (0.2%) NvSox2 | NvSoxC Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 3 (0.0%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 3 (0.4%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 Arid3c/Arid3a/Arid3b + motife Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 4 (0.5%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 20 10 10 20 30 % of peaks

gland_mucin q0.9-hits-active-motifs-ovl-0.5 % of enhancers % of peaks 3239 (2 3239 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 2725 (19.8%) FoxA/D? | FoxL2 2725 (18.59 2522 2522 (18.3%) Lhx8/Lhx6 2476 (18.0%) 2476 (17.7%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... 2206 (16.0%) 2206 (17.8% Arid3c/Arid3a/Arid3b 2163 (11.4%) NvSox2 | NvSoxC 2163 (15.7%) 1892 (13.7%) 1892 (14.3%) RFX.HG1.6:like:RFX6 1782 (11.3%) 1782 (12.9%) Atoh8 | Srebf2/Srebf1 1736 (12.6%) 1736 (11.7%) Sox30 1 motif 1720 (12.5%) 1720 (12.3%) Foxp4/Foxp2/Foxp1 1669 (12.3%) zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... 1669 (12.1%) Creb3l2/Creb3l1 1653 (12.0%) 1653 (12.1%) 1570 (11.4%) 1570 (10.8%) XBP1 1567 (13.4%) 1567 (11.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... 1562 (12.8%) 1562 (11.3%) Tbx5/Tbx4 1489 (9.4%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 1489 (10.8%) 1464 (11.2%) 1464 (10.6%) Rfx4 1439 (11.8%) 1439 (10.4%) NvSoxB2a HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 1431 (10.4%) 1431 (11.6%) 1427 (10.7%) bZIP.HG2.6:like:DBP/HLF/TEF | Crebl2 1427 (10.3%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 623 (3.6%) 623 (4.5%) FoxA/D? | FoxL2 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 581 (4.2%) 581 (3.9%) Lhx8/Lhx6 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 557 (4.0%) 557 (3.5%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Lhx8/Lhx6 + 495 (3.6%) 495 (3.9%) FoxA/D? | FoxL2 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 491 (3.6%) 491 (2.7%) NvSox2 | NvSoxC Arid3c/Arid3a/Arid3b + 473 (3.4%) 473 (3.9%) FoxA/D? | FoxL2 NvSox2 | NvSoxC + 469 (2.2%) 469 (3.4%) FoxA/D? | FoxL2 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 451 (3.3%) 451 (3.3%) Arid3c/Arid3a/Arid3b Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 443 (3.2%) 443 (2.8%) Atoh8 | Srebf2/Srebf1 Lhx8/Lhx6 + 438 (3.2%) 438 (3.8%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 429 (3.1%) 429 (2.8%) FoxA/D? | FoxL2 Arid3c/Arid3a/Arid3b + 427 (3.9%) 427 (3.1%) Lhx8/Lhx6 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 421 (3.1%) 421 (2.5%) Sox30 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 406 (2.9%) 406 (2.5%) zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 401 (2.9%) 401 (2.4%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 399 (2.9%) 399 (3.1%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Lhx8/Lhx6 + 385 (2.8%) 385 (2.6%) NvSox2 | NvSoxC Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 381 (2.8%) 381 (2.1%) Foxp4/Foxp2/Foxp1 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 372 (2.7%) 372 (2.6%) Creb3l2/Creb3l1 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 368 (2.7%) 368 (2.6%) RFX.HG1.6:like:RFX6 Foxp4/Foxp2/Foxp1 + 366 (2.7%) 366 (2.6%) FoxA/D? | FoxL2 NvSox2 | NvSoxC + 363 (2.6%) 363 (1.8%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... RFX.HG1.6:like:RFX6 + 349 (2.5%) 349 (2.5%) FoxA/D? | FoxL2 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 348 (2.5%) 348 (2.3%) bZIP.HG2.6:like:DBP/HLF/TEF | Crebl2 NvSoxB2a + 347 (2.5%) 347 (2.4%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 343 (2.5%) 343 (2.3%) Tbx5/Tbx4 Atoh8 | Srebf2/Srebf1 + 339 (2.5%) 339 (1.9%) FoxA/D? | FoxL2 Arid3c/Arid3a/Arid3b + 338 (2.5%) 338 (2.5%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... + 338 (2.5%) 338 (2.5%) FoxA/D? | FoxL2 motifs Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 337 (2.4%) 337 (2.1%) Atoh8 | Srebf2/Srebf1 Arid3c/Arid3a/Arid3b + 327 (2.4%) 327 (2.1%) NvSox2 | NvSoxC Sox30 + 327 (2.4%) 327 (2.0%) FoxA/D? | FoxL2 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 326 (2.4%) 326 (2.3%) Rfx4 Lhx8/Lhx6 + 326 (2.4%) 326 (2.8%) RFX.HG1.6:like:RFX6 Lhx8/Lhx6 + 323 (2.3%) 323 (2.8%) zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 321 (2.3%) 321 (2.2%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Creb3l2/Creb3l1 + 312 (2.3%) 312 (2.3%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Lhx8/Lhx6 + 312 (2.3%) 312 (2.9%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... RFX.HG1.6:like:RFX6 + 312 (2.3%) 312 (2.3%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... NvSox2 | NvSoxC + 308 (2.2%) 308 (1.3%) Atoh8 | Srebf2/Srebf1 Creb3l2/Creb3l1 + 305 (2.2%) 305 (2.1%) FoxA/D? | FoxL2 Foxp4/Foxp2/Foxp1 + 304 (2.2%) 304 (2.7%) Lhx8/Lhx6 Sox30 + 304 (2.2%) 304 (2.4%) Lhx8/Lhx6 Lhx8/Lhx6 + 303 (2.2%) 303 (2.8%) Tbx5/Tbx4 Arid3c/Arid3a/Arid3b + 301 (2.2%) 301 (2.6%) RFX.HG1.6:like:RFX6 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 301 (2.2%) 301 (2.5%) FoxA/D? | FoxL2 Foxp4/Foxp2/Foxp1 + 299 (2.2%) 299 (2.0%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Sox30 + 295 (2.1%) 295 (2.1%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... + 294 (2.1%) 294 (2.0%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 292 (2.1%) 292 (1.6%) FoxA/D? | FoxL2 Foxp4/Foxp2/Foxp1 + 291 (2.4%) 291 (2.1%) Arid3c/Arid3a/Arid3b Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 290 (2.1%) 290 (1.9%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Sox30 + 288 (2.1%) 288 (1.3%) NvSox2 | NvSoxC Rfx4 +288 (2.1%) 288 (2.2%) FoxA/D? | FoxL2 RFX.HG1.6:like:RFX6 + 284 (2.1%) 284 (1.5%) NvSox2 | NvSoxC Creb3l2/Creb3l1 + 283 (2.1%) 283 (2.3%) Lhx8/Lhx6 XBP1+ 283 (2.1%) 283 (2.4%) Lhx8/Lhx6 Arid3c/Arid3a/Arid3b + 281 (2.0%) 281 (2.7%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Arid3c/Arid3a/Arid3b + 281 (2.0%) 281 (2.3%) zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... 10 15 0 5 25 0 5 10 15 20 % of peaks

