cnidocyte q0.9-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 510 (45.2% 510 (43.7% ARCH438_Spdef 432 (38.3%) 432 (37.0%) ARCH647_Smad2/Smad3_Smad9/S... 346 (30.7%) 346 (30.4%) ARCH530_Snai2 319 (28.3%) 319 (28.9%) ARCH1408_GATA20 ARCH895_Foxn4/Foxn1 319 (28.3%) 319 (27.9%) 299 (25.7%) 299 (26.5%) ARCH867_ZEB1__PL0011.1_hlh-... 267 (23.7%) 267 (21.8%) ARCH56_POU4F1 258 (22.9%) 258 (22.9%) ARCH483_Tbx3/Tbx2-211 (18.7%) 211 (15.5%) ARCH178_Foxc2/Foxc1_Foxg1/G... 179 (17.3%) ARCH1169_/Sox4/Sox11_Sox13/... 179 (15.9%) motif 161 (14.3%) 161 (14.5%) ARCH861_Scrt2/Scrt1 ARCH1627_Xbp1 160 (14.2%) 160 (14.7%) 153 (13.6%) 153 (12.2%) ARCH1265_TFCP2__Tcfcp2l1__G... 145 (12.9%) 145 (13.4%) ARCH1102_Foxa3/Foxa1/Foxa2_.. 142 (12.6%) 142 (13.2%) FoxQ2d 140 (12.4%) 140 (12.5%) ARCH1177_/Sox4/Sox11_Sox13/.. 132 (11.7%) 132 (11.4%) ARCH1475_GATA15 130 (11.5%) 130 (12.2%) ARCH487_Meis3/Meis2/Meis1_P... 119 (10.5%) 119 (10.7%) ARCH1138_/Sox4/Sox11_Sox13/... 118 (10.9%) ARCH1088_Arid5b/Arid5a 118 (10.5%) 118 (10.5%) ARCH484_Tbx3/Tbx2 118 (11.4%) ARCH647_Smad2/Smad3_Smad9/S... + 200 (17.7%) 200 (16.5%) ARCH438_Spdef ARCH438_Spdef + 147 (13.0%) 147 (12.5%) ARCH1408_GATA20 ARCH438_Spdef + 146 (12.9%) 146 (11.9%) ARCH895_Foxn4/Foxn1 ARCH438_Spdef + 143 (12.7%) 143 (12.7%) ARCH530_Snai2 ARCH438_Spdef + 140 (12.4%) 140 (12.2%) ARCH867_ZEB1__PL0011.1_hlh-... ARCH647_Smad2/Smad3_Smad9/S... + 126 (11.2%) 126 (9.9%) ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 120 (10.6%) 120 (10.2%) ARCH895_Foxn4/Foxn1 ARCH438 Spdef + 119 (9.4%) 119 (10.5%) ARCH56_POU4F1 ARCH438_Spdef + 117 (10.4%) 117 (9.9%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 115 (10.1%) 115 (10.2%) ARCH530_Snai2 ARCH647_Smad2/Smad3_Smad9/S... + 109 (9.7%) 109 (9.4%) ARCH867_ZEB1__PL0011.1_hlh-.. ARCH530_Snai2 + 103 (9.1%) 103 (9.7%) ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 101 (7.6%) 101 (9.0%) ARCH56_POU4F1 ARCH530_Snai2 + 99 (8.8%) 99 (8.1%) ARCH895_Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S... + 98 (8.7%) 98 (8.4%) ARCH483 Tbx3/Tbx2 ARCH438_Spdef + 97 (6.8%) 97 (8.6%) ARCH178_Foxc2/Foxc1_Foxg1/G... ARCH895_Foxn4/Foxn1 + 90 (7.9%) 90 (8.0%) ARCH867_ZEB1__PL0011.1_hlh-.. ARCH1408_GATA20 + 88 (7.1%) 88 (7.8%) ARCH895_Foxn4/Foxn1 ARCH530_Snai2 + 87 (7.7%) 87 (8.4%) ARCH483_Tbx3/Tbx2 ARCH1408_GATA20 + 80 (6.8%) 80 (7.1%) ARCH867_ZEB1__PL0011.1_hlh-... ARCH647_Smad2/Smad3_Smad9/S... + 77 (5.8%) 77 (6.8%) ARCH178_Foxc2/Foxc1_Foxg1/G... ARCH438_Spdef + 75 (6.9%) 75 (6.6%) ARCH861_Scrt2/Scrt1 ARCH56 POU4F1 + 74 (6.6%) 74 (6.3%) ARCH1408_GATA20 ARCH438_Spdef + 73 (7.4%) 73 (6.5%) ARCH1169_/Sox4/Sox11_Sox13/... ARCH56 POU4F1 + 73 (6.5%) 73 (5.4%) ARCH867_ZEB1__PL0011.1_hlh-... ARCH483_Tbx3/Tbx2 + 72 (6.4%) 72 (6.8%) ARCH1408_GATA20 2 ARCH56_POU4F1 + 72 (6.4%) 72 (6.4%) ARCH895_Foxn4/Foxn1 ARCH530 Snai2 + 71 (6.3%) 71 (5.8%) ARCH867_ZEB1__PL0011.1_hlh-.. ARCH483_Tbx3/Tbx2 + 71 (6.3%) 71 (5.6%) ARCH895_Foxn4/Foxn1 ARCH178_Foxc2/Foxc1_Foxg1/G... + 70 (5.1%) 70 (6.2%) ARCH530_Snai2 ARCH438_Spdef + 69 (6.1%) 69 (5.3%) FoxQ2d ARCH1177_/Sox4/Sox11_Sox13/... + 67 (5.9%) 67 (5.1%) ARCH438_Spdef ARCH438_Spdef + 67 (5.9%) 67 (5.9%) ARCH1627_Xbp1 ARCH438_Spdef + 67 (5.9%) 67 (5.8%) ARCH1102 Foxa3/Foxa1/Foxa2 ... ARCH647_Smad2/Smad3_Smad9/S... + 65 (5.8%) 65 (6.1%) ARCH1627_Xbp1 ARCH647_Smad2/Smad3_Smad9/S... + 65 (5.4%) 65 (5.8%) FoxQ2d ARCH647_Smad2/Smad3_Smad9/S... + 65 (5.8%) 65 (5.6%) ARCH861_Scrt2/Scrt1 ARCH438_Spdef + 64 (4.8%) 64 (5.7%) ARCH1265_TFCP2__Tcfcp2l1__G... ARCH483 Tbx3/Tbx2 + 63 (5.6%) 63 (5.4%) ARCH867_ZEB1__PL0011.1_hlh-... ARCH530 Snai2 + 61 (5.4%) 61 (6.1%) ARCH1169_/Sox4/Sox11_Sox13/... ARCH647 Smad2/Smad3 Smad9/S... + 60 (4.6%) 60 (5.3%) ARCH1265_TFCP2__Tcfcp2l1__G... ARCH530_Snai2 + 60 (5.3%) 60 (4.8%) ARCH56_POU4F1 ARCH647_Smad2/Smad3_Smad9/S... + 59 (5.2%) 59 (6.3%) ARCH1169_/Sox4/Sox11_Sox13/... ARCH647_Smad2/Smad3_Smad9/S... + 59 (5.2%) 59 (5.0%) ARCH1475_GATA15 ARCH178_Foxc2/Foxc1_Foxg1/G... + 58 (4.0%) 58 (5.1%) ARCH895_Foxn4/Foxn1 ARCH1088 Arid5b/Arid5a + 56 (5.0%) 56 (5.0%) ARCH438_Spdef ARCH647_Smad2/Smad3_Smad9/S... + 54 (4.5%) 54 (4.8%) ARCH1102_Foxa3/Foxa1/Foxa2_.. ARCH438_Spdef + 54 (4.5%) 54 (4.8%) ARCH1138_/Sox4/Sox11_Sox13/.. ARCH438_Spdef + 54 (5.4%) 54 (4.8%) ARCH487_Meis3/Meis2/Meis1_P... ARCH483_Tbx3/Tbx2 + 54 (4.0%) 54 (4.8%) ARCH56 POU4F1 ARCH1177_/Sox4/Sox11_Sox13/... + 53 (4.7%) 53 (5.0%) ARCH647_Smad2/Smad3_Smad9/S... ARCH1627_Xbp1 + 52 (4.6%) 52 (4.6%) ARCH1408_GATA20 ARCH178_Foxc2/Foxc1_Foxg1/G... + 51 (3.1%) 51 (4.5%) ARCH483_Tbx3/Tbx2 ARCH530 Snai2 + 51 (4.8%) 51 (4.5%) ARCH1627_Xbp1 ARCH647_Smad2/Smad3_Smad9/S... + 63 (5.6%) 63 (5.1%) ARCH438_Spdef + 3 motifs ARCH647_Smad2RSH&95_50x049F3x04 62 (4.3%) 62 (5.5%) ARCH438_Spdef + ARCH647_Smad2/SARAd31508ac9ASA2Q 53 (4.7%) 53 (4.6%) ARCH438_Spdef + ARCH867_ZEB1__PL0011.1_hlh-... 10 20 20 30 40 50 0 10 30 40 50 % of peaks

cnidocyte q0.95-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 374 (33.2% ARCH860_E2A__esg 374 (33.2% ARCH438_Spdef 247 (21.9%) 247 (20.5%) 245 (21.3%) 245 (21.7%) ARCH647_Smad2/Smad3_Smad9/S... 1 motif 214 (19.0%) 214 (17.0%) ARCH56_POU4F1 184 (15.8%) 184 (16.3%) ARCH1408_GATA20 176 (15.6%) 176 (13.2%) ARCH895_Foxn4/Foxn1 151 (13.4%) 151 (13.9%) ARCH483_Tbx3/Tbx2 ARCH860_E2A__esg + 85 (8.1%) 85 (7.5%) ARCH438_Spdef ARCH860_E2A__esg + 78 (6.9%) 78 (7.4%) ARCH647_Smad2/Smad3_Smad9/S... ARCH860_E2A__esg + 60 (5.3%) 60 (5.0%) ARCH1408_GATA20 ARCH860_E2A__esg + ARCH56_POU4F1 57 (5.1%) 57 (4.8%) ARCH860_E2A__esg + 54 (4.8%) 54 (5.1%) ARCH483_Tbx3/Tbx2 ARCH860_E2A__esg + 53 (4.7%) 53 (3.5%) ARCH895_Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S... + 53 (4.7%) 53 (4.8%) ARCH438_Spdef ARCH438_Spdef + 51 (4.5%) 51 (3.5%) ARCH56_POU4F1 ARCH1408_GATA20 + 47 (4.2%) 47 (4.5%) ARCH438_Spdef ARCH647_Smad2/Smad3_Smad9/S... + 46 (4.1%) 46 (3.3%) ARCH895_Foxn4/Foxn1 2 motifs ARCH647_Smad2/Smad3_Smad9/S... + 45 (4.0%) 45 (4.0%) ARCH56_POU4F1 ARCH647_Smad2/Smad3_Smad9/S... + 40 (3.5%) 40 (3.0%) ARCH1408_GATA20 ARCH438_Spdef + 39 (3.5%) 39 (2.5%) ARCH895_Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S... + 37 (3.0%) 37 (3.3%) ARCH483_Tbx3/Tbx2 ARCH438_Spdef + 37 (3.3%) 37 (3.5%) ARCH483_Tbx3/Tbx2 ARCH1408_GATA20 + 36 (3.2%) 36 (2.8%) ARCH56_POU4F1 ARCH56_POU4F1 + 36 (3.2%) 36 (3.1%) ARCH895_Foxn4/Foxn1 ARCH483_Tbx3/Tbx2 + 28 (2.5%) 28 (2.0%) ARCH56_POU4F1 ARCH1408_GATA20 + 24 (2.1%) 24 (1.3%) ARCH895_Foxn4/Foxn1 ARCH483_Tbx3/Tbx2 + 24 (2.1%) 24 (2.1%) ARCH895_Foxn4/Foxn1 ARCH1408_GATA20 + 22 (2.0%) 22 (2.0%) ARCH483_Tbx3/Tbx2 ARCH860_E2A__esg + ARCH438_Spdef + 21 (1.9%) 21 (1.7%) ARCABOHEDAPOUAF1 ARCH1408_GATA20 + 16 (1.4%) 16 (1.5%) ARCH860_H238_Spgqf ARCH438_Spdef + 15 (1.3%) 15 (1.8%) ARCH8683=ZAX3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 14 (1.2%) 14 (1.0%) ARCRED 408AGATA2Q 14 (1.8%) ARCH647_Smad2/Smad3_Smad9/S... + 14 (1.2%) ARCHARCH2A8_Spgef ARCH438_Spdef + 14 (1.2%) 14 (0.8%) ARCH895_F2XA4/F2XA1 ARCH647_Smad2/Smad3_Smad9/S... + 13 (1.3%) 13 (1.2%) ARCH8683EJAX3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 12 (0.8%) 12 (1.1%) 4RCH885-FEXA4/FEXA1 ARCH1408_GATA20 + 11 (1.0%) 11 (1.0%) ARCH8683=JAX3/JbX2 11 (1.0%) ARCH56_POU4F1 + 11 (1.0%) ARCH647_Smad2/Smad3-5mad9/9xn1 ARCH438_Spdef + 10 (0.9%) 10 (0.7%) ARCABOH 50 APOU4F1 ARCH647_Smad2/Smad3_Smad9/S... + 9 (0.8%) 9 (0.8%) ARCABOHEQAPOUSF1 ARCH1408_GATA20 + 9 (0.8%) 9 (0.8%) ARCH647_Smad2/Smad9_5mad9/94F1 9 (0.8%) ARCH1408_GATA20 + 9 (0.8%) ARCH647_Smad2/Smad3_Smad9/Sp.def ARCH56_POU4F1 + 9 (0.7%) 9 (0.8%) ARRH895-080-2011 ARCH438_Spdef + 9 (0.8%) 9 (1.0%) ယ ARCH498_PSU4F1 motifs ARCH56_POU4F1 + 9 (0.8%) 9 (0.5%) ARCH895-Fexa4/Fexa1 ARCH483_Tbx3/Tbx2 + 8 (0.7%) 8 (0.8%) ARCH895-F2XA4/F0Xn1 ARCH483_Tbx3/Tbx2 + 7 (0.6%) 7 (0.7%) ARCH647_Smad2/Smad9_Smad9/S....4 ARCH1408_GATA20 + 7 (0.6%) 7 (0.5%) ARCH647_Smad2/Smad3_Smad9/S...2 ARCH438_Spdef + 7 (0.6%) 7 (0.7%) ARCH647_Smad2/Smad3_Smad9/Sbx2 ARCH438_Spdef + 7 (0.6%) 7 (0.7%) ARCH647_Smad2/Smad3-Smad9F9:::14 ARCH483_Tbx3/Tbx2 + 7 (0.6%) 7 (0.7%) ARRH895-080-2014-15-2011 7 (1.0%) ARCH438_Spdef + 7 (0.6%) ARAH48337bx3/Jbx2 ARCH483_Tbx3/Tbx2 + 7 (0.6%) 7 (0.3%) ARCH647 Smad2/Smad9H56aB9/H4F1 ARCH1408_GATA20 + 6 (0.5%) 6 (0.5%) ARCH647_Smad2/Smad9_Smad9/S...+ ARCH1408_GATA20 + 6 (0.2%) 6 (0.5%) ARCH647_Smad2/Smad3-Shxn49/Sxn1 ARCH483_Tbx3/Tbx2 + 6 (0.5%) 6 (0.3%) ARCABOHEGAPOUAF1 ARCH1408_GATA20 + 5 (0.4%) 5 (0.2%) ARCH438_Spdef + 5 (0.4%) 5 (0.3%) ARRH895-080-2014-1-2011 ARCH483_Tbx3/Tbx2 + 5 (0.5%) 5 (0.4%) ARCH498-PSPU4F1 ARCH483_Tbx3/Tbx2 + 5 (0.4%) 5 (0.3%) 4RCH485_F8X374F8X271 ARCH56_POU4F1 + 3 (0.3%) 3 (0.3%) ARCH895_Foxn4/Foxn1 ARCH860_E2A__esg + ARCH1408_GATA20 + ARCH647_Smad2/Smad9/Smad9/Smad9/Smad9/Smad9/S....+ 5 (0.4%) 5 (0.5%) 4 (0.2%) ARCH647_Smad2/Smad38Smad9/S...x2 4 (0.3%) ARCH647_Smad2/Smat 4 (0.4%) 4 (0.2%) motifs 4 (0.4%) 4 (0.3%) 4 (0.4%) 4 (0.2%) ARCH647_Smad 3 (0.3%) 3 (0.3%) 3 (0.3%) 3 (0.5%) ARCH483_Tbx3/Tbx2 + 3 (0.3%) 3 (0.3%) ARCH56_POU4F1 10 20 10 20 30 30 % of peaks

cnidocyte q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 346 (3 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 346 (3 306 (27.4%) 306 (27.8%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 280 (23.5%) 280 (25.4%) Pou4 254 (23.0%) 254 (19.9%) Nfya 254 (23.5%) FoxA/D? | FoxL2 254 (23.0%) 217 (19.7%) 217 (21.1%) Zfp760/Zfp770 167 (15.2%) 167 (15.0%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... 157 (14.2%) 157 (15.0%) Mlx 1 motif 151 (14.8%) Arid2 | Arid5b/Arid5a 151 (13.7%) 145 (13.2%) 145 (12.1%) NvSox2 | NvSoxC 144 (13.1%) 144 (13.6%) Sox30 142 (12.9%) 142 (12.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... 129 (11.7%) 129 (11.9%) HLH.HG1.77:like:NEUROD1/NEUROD2/NEUROD4/NEU.. 124 (11.3%) 124 (11.9%) TEA.HG1.0:TEAD1/TEAD2/TEAD3/TEAD4 121 (11.2%) 121 (11.0%) SoxB2/Sox3 119 (11.1%) 119 (10.8%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... bZIP.HG1.3:like:JUN/JUNB/JUND 112 (8.2%) 112 (10.2%) Nfya + 85 (7.7%) 85 (6.3%) 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 + AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 78 (7.1%) 78 (6.8%) Pou4 + 76 (6.0%) 76 (6.9%) 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 + 72 (6.5%) 72 (7.0%) FoxA/D? | FoxL2 Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 72 (6.5%) 72 (7.7%) Zfp760/Zfp770 Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 68 (5.4%) 68 (6.2%) FoxA/D? | FoxL2 + 66 (6.0%) 66 (5.8%) Pou4 FoxA/D? | FoxL2 + 66 (6.0%) 66 (6,0%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Pou4 + 64 (5.8%) 64 (6.3%) Zfp760/Zfp770 Zfp760/Zfp770 + 64 (5.8%) 64 (6.0%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Nfya + 59 (5.4%) 59 (4.4%) Pou4 Nfya + 57 (5.2%) 57 (4.3%) 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 + 54 (4.9%) 54 (5.1%) NvSox2 | NvSoxC Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 53 (4.8%) 53 (5.4%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 51 (3.9%) 51 (4.6%) Pou4 + 50 (4.5%) 50 (4.6%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... Arid2 | Arid5b/Arid5a + 49 (4.4%) 49 (4.6%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Nfya + 48 (4.4%) 48 (3.7%) FoxA/D? | FoxL2 MIx + 47 (4.3%) 47 (4.4%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 FoxA/D? | FoxL2 + 47 (4.3%) 47 (4.4%) Zfp760/Zfp770 Nfya + 46 (4.2%) 46 (3.9%) Zfp760/Zfp770 Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 45 (4.1%) 45 (3.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... + 45 (4.1%) 45 (4.1%) 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 + 43 (2.9%) 43 (3.9%) HLH.HG1.77:like:NEUROD1/NEUROD2/NEUROD4/NEU... FoxA/D? | FoxL2 + 43 (4.1%) 43 (3.9%) 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 + 42 (3.8%) 42 (3.9%) TEA.HG1.0:TEAD1/TEAD2/TEAD3/TEAD4 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 42 (3.2%) 42 (3.8%) 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 + 42 (3.8%) 42 (3.9%) SoxB2/Sox3 Pou4 + 42 (3.8%) 42 (2.7%) NvSox2 | NvSoxC motifs Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 41 (4.1%) 41 (3.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Arid2 | Arid5b/Arid5a + 39 (3.5%) 39 (3.4%) FoxA/D? | FoxL2 Arid2 | Arid5b/Arid5a + 39 (3.5%) 39 (3.6%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Pou4 + 39 (3.5%) 39 (3.2%) Sox30 Arid2 | Arid5b/Arid5a + 37 (3.4%) 37 (3.7%) Pou4 Nfya + 37 (3.4%) 37 (3.4%) NvSox2 | NvSoxC MIx + 37 (3.4%) 37 (3.1%) Pou4 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 37 (3.4%) 37 (3.6%) FoxA/D? | FoxL2 Nfya + 36 (3.3%) 36 (2.4%) Mlx Nfya + 36 (3.3%) 36 (2.9%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 36 (3.3%) 36 (3.6%) Pou₄ NvSox2 | NvSoxC + 36 (3.3%) 36 (2.0%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Sox30 + 35 (3.2%) 35 (3.2%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 FoxA/D? | FoxL2 + 34 (3.1%) 34 (2.9%) NvSox2 | NvSoxC NvSox2 | NvSoxC + 34 (3.1%) 34 (3.1%) Zfp760/Zfp770 Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 33 (3.0%) 33 (2.9%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 33 (3.0%) 33 (2.9%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 HLH.HG1.77:like:NEUROD1/NEUROD2/NEUROD4/NEU... + 33 (3.0%) 33 (2.9%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 SoxB2/Sox3 + 33 (3.0%) 33 (3.4%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Nfya + 32 (2.9%) 32 (2.7%) SoxB2/Sox3 MIx + 32 (2.9%) 32 (3.2%) Zfp760/Zfp770 FoxA/D? | FoxL2 + 32 (2.9%) 32 (2.9%) Sox30 TEA.HG1.0:TEAD1/TEAD2/TEAD3/TEAD4 + 32 (2.9%) 32 (2.9%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Arid2 | Arid5b/Arid5a + 31 (2.8%) 31 (3.2%) Zfp760/Zfp770 Nfya + 31 (2.8%) 31 (2.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... 31 (2.8%) 31 (2.2%) HLH.HG1.77:like:NEUROD1/NEUROD2/NEUROD4/NEU. Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 31 (2.8%) 31 (2.0%) bZIP.HG1.3:like:JUN/JUNB/JUND MIx + 31 (2.8%) 31 (2.2%) FoxA/D? | FoxL2 31 (2.8%) 31 (3.2%) HLH.HG1.77:like:NEUROD1/NEUROD2/NEUROD4/NEU. Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... +

31 (2.8%)

10

20

Zfp760/Zfp770

31 (3.6%)

% of peaks

10

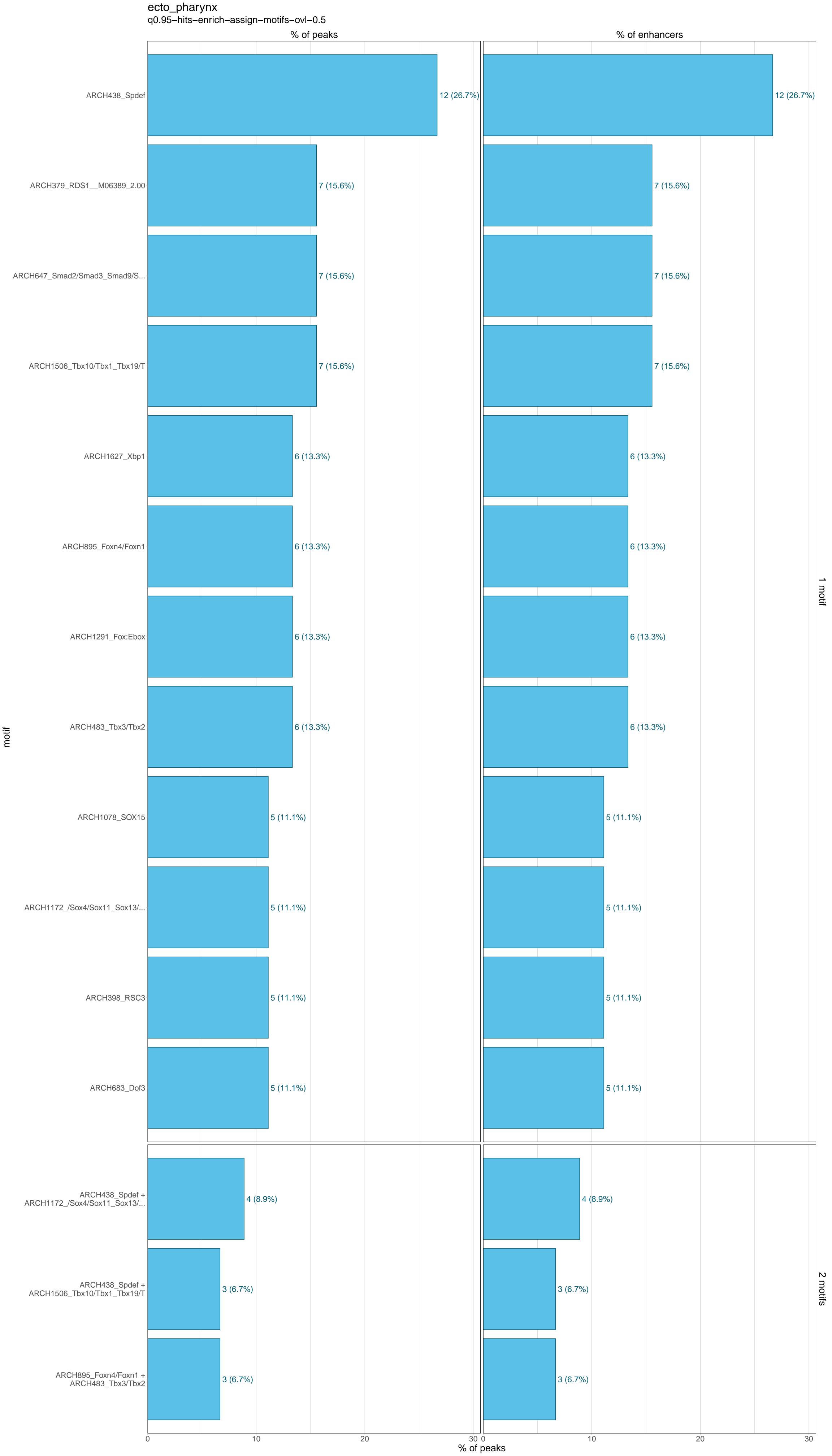
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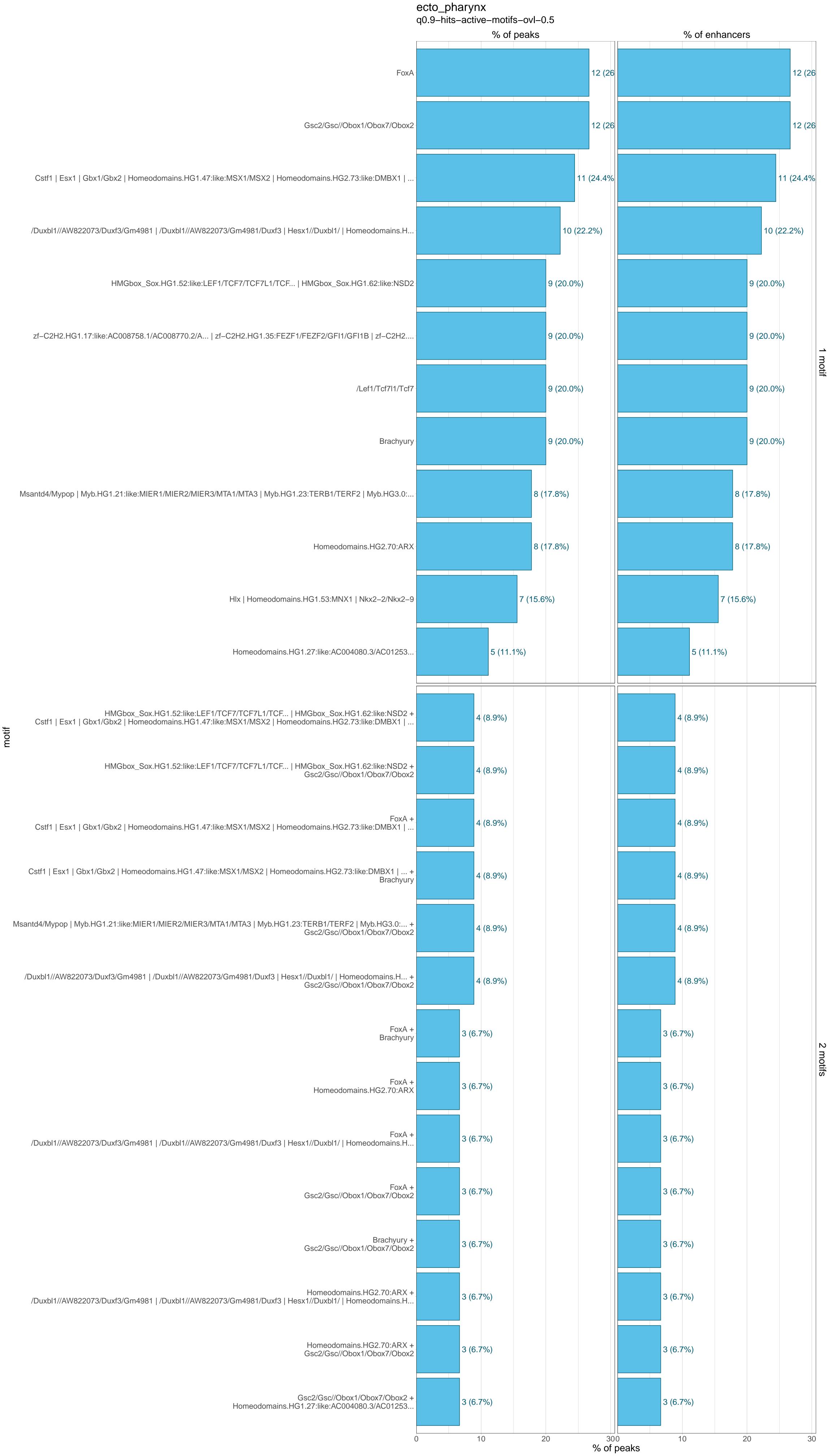
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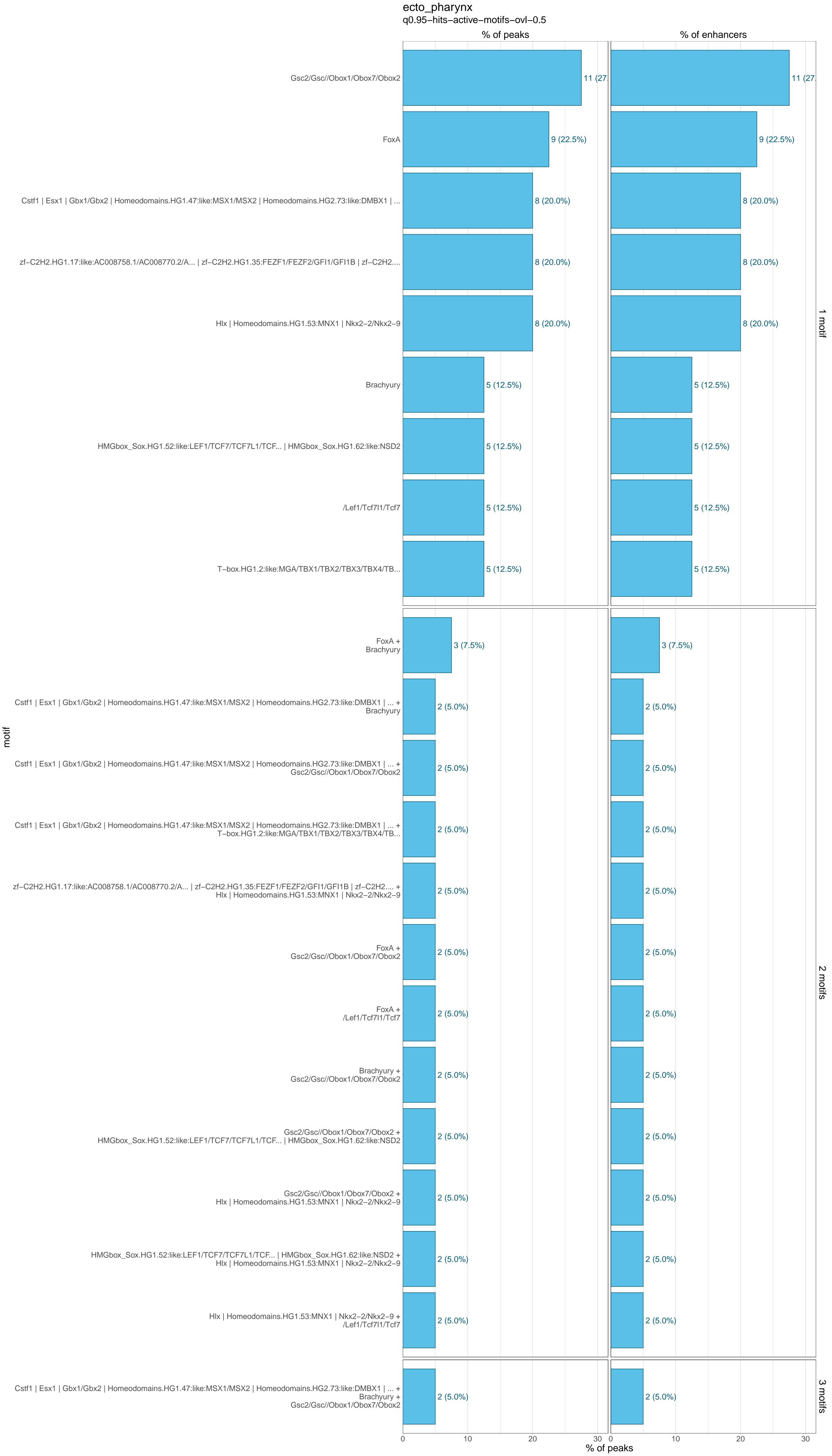
cnidocyte_gastrula q0.9-hits-active-motifs-ovl-0.5

% of peaks % of enhancers AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2-146 (4 146 (5) 55 (18.8%) 55 (18.0%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 50 (17.1%) 50 (16.2%) FoxA/D? | FoxL2 49 (15.8%) 49 (16.7%) Creb3l2/Creb3l1 47 (16.0%) 47 (15.8%) Arid3c/Arid3a/Arid3b 45 (15.4%) 45 (15.5%) Pou4 motif 43 (14.7%) 43 (14.1%) Nkx-2.2a | Tgif1/Tgif2 39 (13.3%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H.. 39 (13.7%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2... 38 (13.0%) 38 (12.7%) 38 (13.0%) zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N.. 38 (12.7%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119... 37 (12.6%) 37 (12.7%) 33 (11.3%) 33 (11.6%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 31 (10.6%) 31 (10.2%) Homeodomains. HG1.37: NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 AshA | BHMG1 | Ahr/Ahrr | HLH. HG1.29: MYC/MYCN | Sohlh2 + 26 (8.9%) 26 (8.5%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 24 (8.2%) 24 (8.1%) FoxA/D? | FoxL2 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 20 (6.8%) 20 (7.0%) AShA BHMG1 Ahr/Ahrr HLH.HG1.29:MYC/MYCL/MYCN I Sohlh2 20 (6.8%) 20 (6.3%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 20 (6.8%) 20 (6.3%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 19 (6.5%) 19 (6.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 18 (6.1%) 18 (6.3%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG+.29:MYC/MYCL/MYCN | Sohlh2 + 17 (5.8%) 17 (5.3%) 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 + 13 (4.4%) 13 (4.6%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... Creb3l2/Creb3l1 + 12 (4.1%) 12 (4.2%) 12 (4.1%) 12 (4.2%) 11 (3.8%) 11 (3.5%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | 11 (3.8%) 11 (3.5%) 10 (3.4%) 10 (3.2%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 LF 10 (3.4%) 10 (3.2%) 10 (3.4%) 10 (2.8%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Arid3c/Arid3c/Arid3a/Arid | 9 (3.1%) 9 (2.8%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-8 (2.7%) 8 (2.8%) 8 (2.7%) 8 (2.8%) zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N 8 (2.7%) 8 (2.1%) | Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6/Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ 7 (2.4%) 7 (2.5%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A...|zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GF/DuxbI1//AW822073/Duxf3/Gm4981 | /DuxbI1//AW822073/Gm4981/Duxf3 | Hesx1//DuxbI1/ | Hom 7 (2.4%) 7 (2.5%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H. 7 (2.4%) 7 (2.5%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains 7 (2.4%) 7 (2.5%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... + 7 (2.4%) 7 (2.1%) 7 (2.4%) 7 (2.5%) zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N 7 (2.5%) 7 (2.4%) 7 (2.4%) 7 (2.1%) 7 (2.4%) 7 (2.5%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A. Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6motifs 7 (2.4%) 7 (1.8%) 7 (2.4%) 7 (2.5%) zf-C2H2.HG1:17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1:32:like:AC008758.1/AC008770.2/A 6 (2.0%) 6 (2.1%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2 6 (2.0%) 6 (1.8%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx 6 (2.0%) 6 (1.8%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A 6 (2.0%) 6 (1.8%) 6 (2.0%) 6 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Horr 5 (1.7%) 5 (1.8%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.37:NKX6=1/NKX6=2/NKX 5 (1.7%) 5 (1.8%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GF11/GF 5 (1.7%) 5 (1.8%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119 5 (1.7%) 5 (1.8%) 5 (1.4%) |5 (1.7%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119... FoxA/D? | FoxL2 5 (1.7%) |5 (1.8%) zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N... + 5 (1.7%) 5 (1.8%) 5 (1.7%) 5 (1.8%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 5 (1.7%) 5 (1.4%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119. Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 5 (1.7%) 5 (1.8%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... + 5 (1.7%) 5 (1.8%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... 4 (1.4%) 4 (1.4%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf 4 (0.7%) 4 (1.4%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... + |4 (1.4%) |4 (1.4%) 4 (1.4%) 4 (1.4%) zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N.. 4 (1.1%) 4 (1.4%) zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N...-4 (1.4%) 4 (1.4%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 zf-C4_Nuclear_receptors.HG1.2 4 (1.4%) 4 (1.4%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119. 4 (1.4%) 4 (1.4%) Nkx-2.2a | Tgif1/Tgif2"+ 4 (1.4%) 4 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H. 3 (1.0%) 3 (1.1%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.19: 3 (0.7%) 3 (1.0%) 3 (1.1%) 3 (1.0%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119... 3 (1.0%) 3 (1.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCI 6 (2.0%) 6 (2.1%) 6 (2.0%) 6 (1.8%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A...|zf-C2H2.HG1.35:FEZF1/FEZF2/GF AshA | BHMG11 Abr/Abrr N KX6-1/N KX6-2/N Homeodomains.HG1.37:N KX6-1/N KX6-2/N K 5 (1.7%) 5 (1.4%) 5 (1.7%) 5 (1.8%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MAXCN & 5 (1.8%) 5 (1.7%) AshA | BHMG1 | Ahr/Ahrr | HILH HG1 29:MYC/MYGL/M 5 (1.4%) 5 (1.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MY& 5 (1.4%) 5 (1.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL 5 (1.7%) 5 (1.8%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCL/MYCN 5 (1.4%) 5 (1.7%) 5 (1.7%) 5 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ 4 (1.4%) 4 (1.4%) 4 (1.4%) 4 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx17/Duxbl 4 (1.4%) 4 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxb 4 (1.4%) 4 (1.4%) ASHA BHMG1 Ahr/Ahrr HEH:HG1:29:MYE/MYE 4 (1.4%) 4 (1.4%) AshA | BHMG1 | Ahr/Ahrr | HLH HG1 29:MYC/MYCI 4 (1.4%) 4 (1.4%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL 4 (1.4%) 4 (1.4%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MXC 4 (1.1%) 4 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1//Legn 3 (1.0%) 3 (1.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYC 3 (1.1%) 3 (1.0%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A...|zf-C2H2.HG1.35:FEZF1/FEZF2/AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:M zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A...|zf-C2H2.HG1.35:FEZF1/FAShA|BHMG1|Ahr/Ahrr|HLH.HG1 3 (1.1%) 3 (1.0%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A...|zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYGL/MY zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A...|zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYGL/MY 3 (0.7%) 3 (1.0%) 3 (1.0%) 3 (0.4%) 3 (1.1%) 3 (1.0%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Self 3 (1.1%) 3 (1.0%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYC 3 (1.1%) 3 (1.0%) ASBALBHMGihs.Act/ASTINKX6-TRIKX8-MYRKX8CS-3 (1.0%) 3 (1.1%) KIf13 | Sp6-9 | ZNF845 | Prdm13 | zf Sp4 | BHMG12 | Irke: ACU68758.17AC 1088770.2/MYG 3 (1.1%) 3 (1.0%) zf-C2H213G3-17:114e:2008758-11AC9987702H2:HGT-32:HH2:HG1-35:FE-7F1/56-7F6-7F6-7F1-61-21-61-21-61-21-61-35-16-1 3 (1.0%) 3 (1.1%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... 3 (1.0%) 3 (0.7%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 3 (1.0%) 3 (1.1%) 3 (1.1%) 3 (1.0%) 10 10 20 30 40 20 30 40 50 % of peaks

cnidocyte_gastrula q0.95-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 53 (19. Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 53 (19. FoxA/D? | FoxL2 52 (18.9 52 (18.0%) 52 (18.9 52 (18.4%) Arid3c/Arid3a/Arid3b 1 motif 36 (13.1%) 36 (12.8%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 34 (12.4%) 34 (11.3%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1-Pou4 32 (11.6%) 32 (12.0%) 32 (11.6%) 32 (12.0%) MIx FoxA/D? | FoxL2 + Arid3c/Arid3a/Arid3b 14 (5.1%) 14 (4.5%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 10 (3.6%) 10 (3.0%) Arid3c/Arid3a/Arid3b Arid3c/Arid3a/Arid3b + 10 (3.6%) 10 (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 + 8 (2.9%) 8 (3.0%) Arid3c/Arid3a/Arid3b FoxA/D? | FoxL2 + 8 (2.9%) 8 (2.6%) 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 + AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 7 (2.5%) 7 (2.6%) Pou4 + 7 (2.5%) 7 (2.6%) FoxA/D? | FoxL2 FoxA/D? | FoxL2 + 7 (2.5%) 7 (1.9%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + FoxA/D? | FoxA/D? | FoxL2 6 (2.2%) 6 (2.3%) motifs Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 6 (2.2%) 6 (2.3%) FoxA/D? | FoxL2 + 5 (1.8%) 5 (1.9%) Mlx Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 4 (1.5%) 4 (1.5%) Pou4 + 4 (1.5%) 4 (1.5%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 4 (1.5%) 4 (1.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Arid3c/Arid3a/Arid3b + 4 (1.5%) 4 (1.5%) 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 3 (1.1%) 3 (1.1%) Pou4 + 3 (1.1%) 3 (1.1%) Arid3c/Arid3a/Arid3b AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 3 (1.1%) 3 (1.1%) Mlx FoxA/D? | FoxL2 + Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 4 (1.5%) 4 (1.1%) Arid3c/Arid3a/Arid3b 3 motifs FoxA/D? | FoxL2 + Arid3c/Arid3a/Arid3b + 3 (1.1%) 3 (0.8%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 20 10 15 10 15 20 5 5 % of peaks

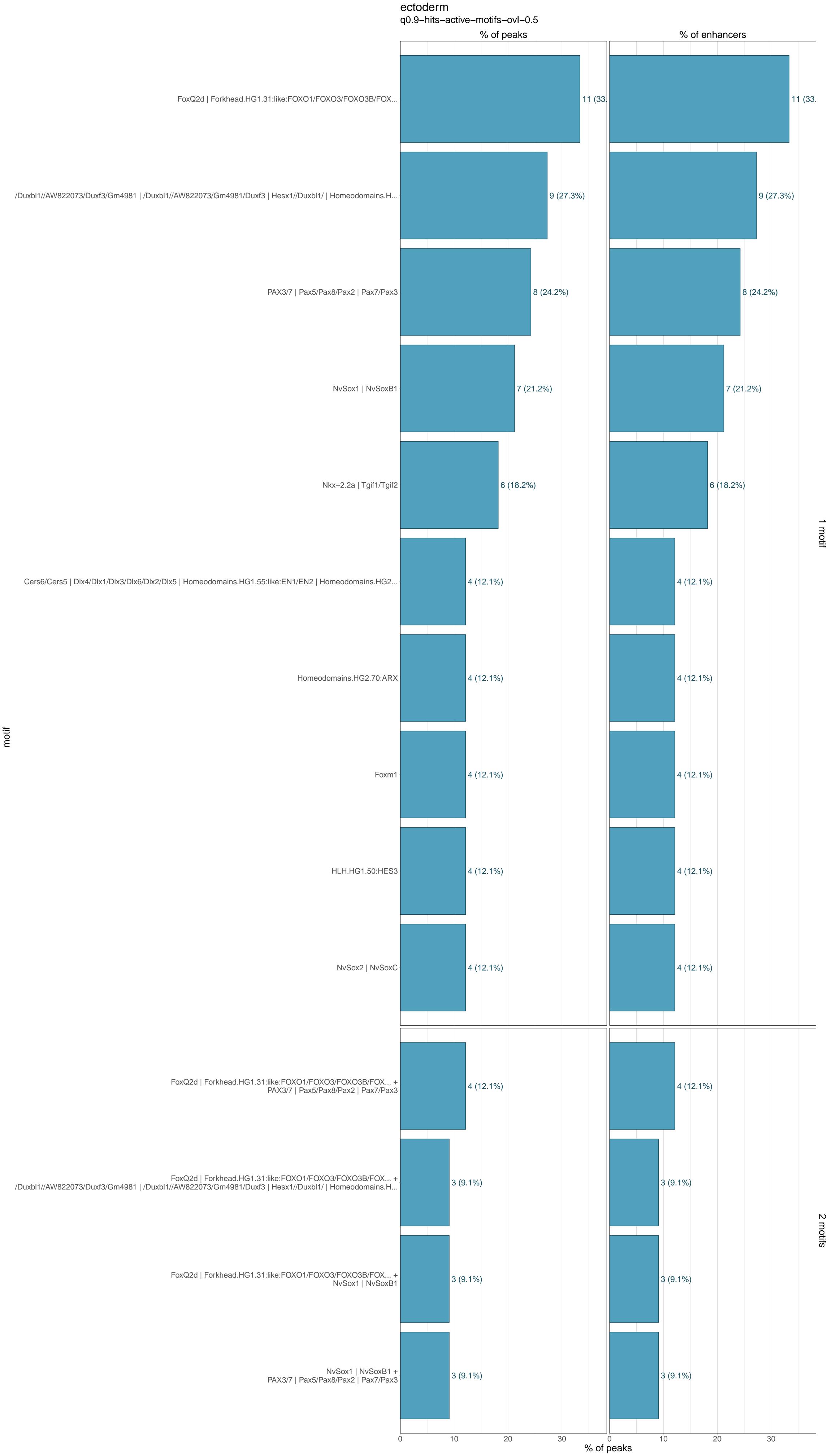


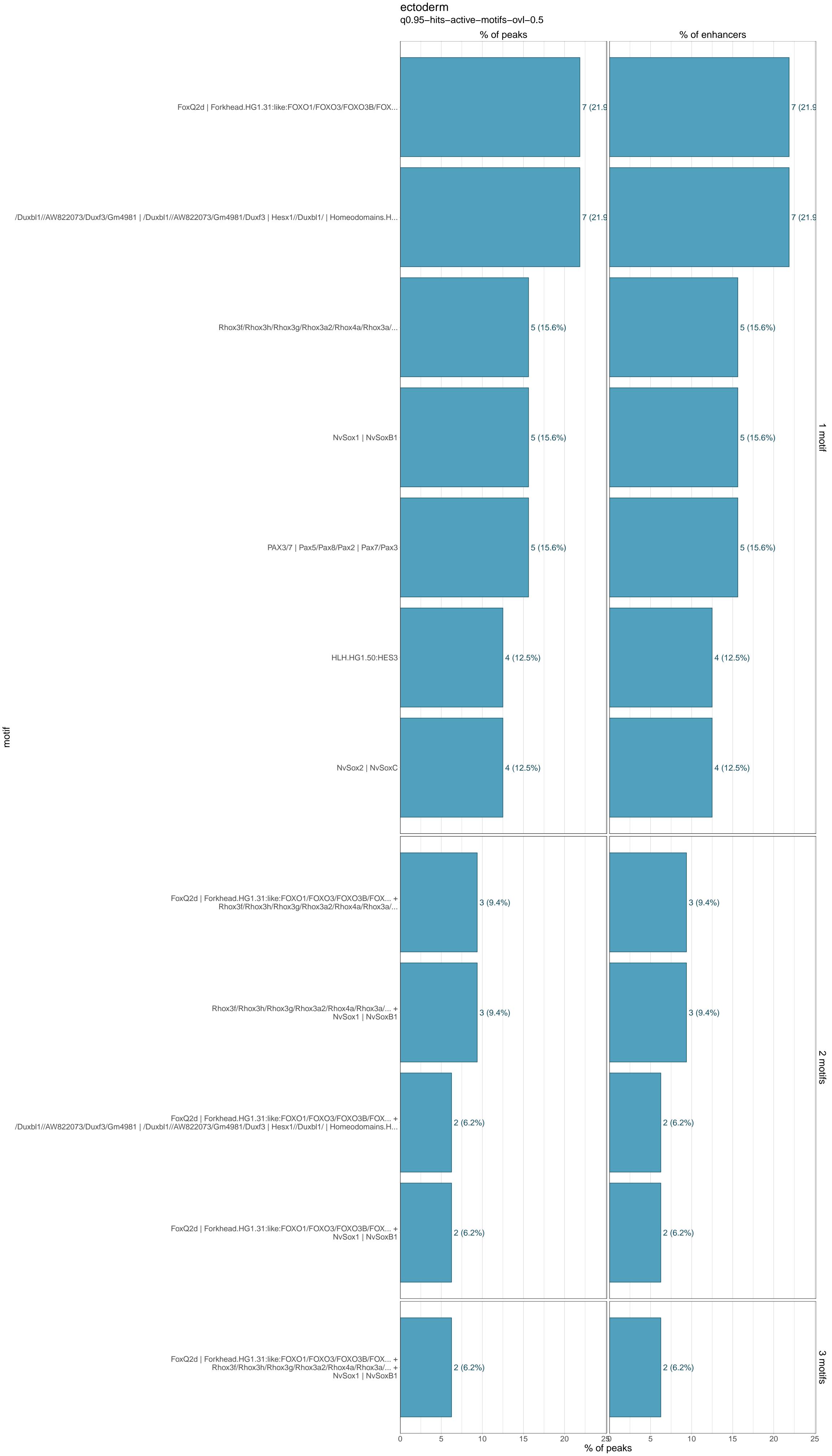




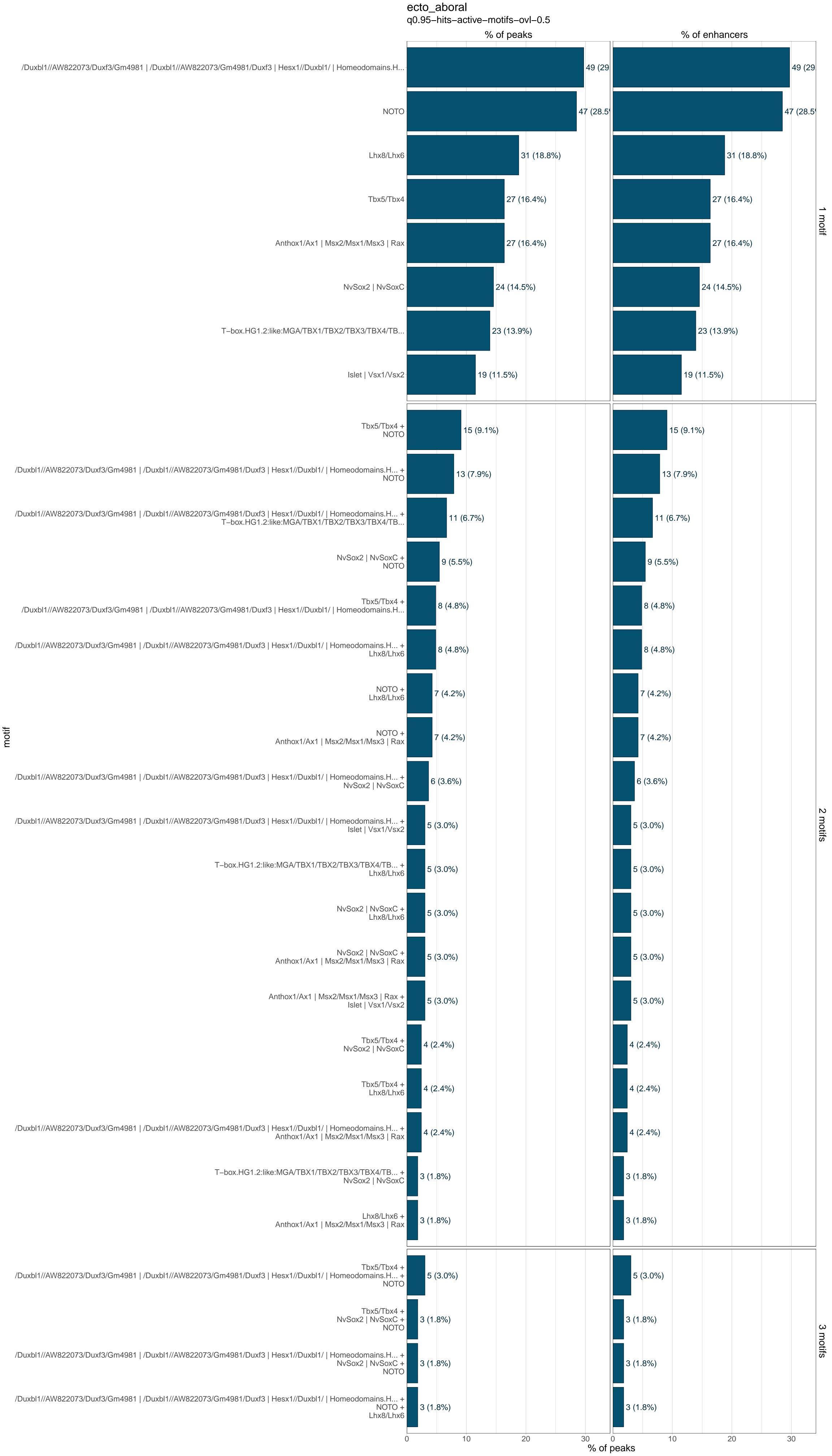
ectoderm q0.9-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 19 (57.6%) 19 (57.6%) ARCH647_Smad2/Smad3_Smad9/S... 18 (54.5%) 18 (54.5%) ARCH438_Spdef 12 (36.4%) 12 (36.4%) ARCH1164_/Sox4/Sox11_Sox13/.. 10 (30.3%) 10 (30.3%) ARCH1419_Sox21 10 (30.3%) ARCH895_Foxn4/Foxn1 10 (30.3%) 9 (27.3%) 9 (27.3%) ARCH1537_PAX6__PB0091.1_Zbt.. 9 (27.3%) 9 (27.3%) ARCH1418_Sox7 7 (21.2%) 7 (21.2%) ARCH1627_Xbp1 7 (21.2%) 7 (21.2%) ARCH483_Tbx3/Tbx2 6 (18.2%) ARCH1177_/Sox4/Sox11_Sox13/.. 6 (18.2%) 6 (18.2%) 6 (18.2%) ARCH873_Pax5/Pax8/Pax2 5 (15.2%) 5 (15.2%) ARCH1204 ARR1 ZNF24 5 (15.2%) 5 (15.2%) ARCH1174_/Sox4/Sox11_Sox13/... 1 motif 5 (15.2%) 5 (15.2%) ARCH1064_M06023_2.00__M0284.. 5 (15.2%) 5 (15.2%) ARCH669_TCP17 5 (15.2%) 5 (15.2%) ARCH178_Foxc2/Foxc1_Foxg1/G.. ARCH1397_RBFox2__OCT:OCT-short 5 (15.2%) 5 (15.2%) 4 (12.1%) 4 (12.1%) ARCH1265_TFCP2__Tcfcp2l1__G.. 4 (12.1%) 4 (12.1%) ARCH379_RDS1__M06389_2.00 4 (12.1%) 4 (12.1%) ARCH1138_/Sox4/Sox11_Sox13/.. 4 (12.1%) 4 (12.1%) ARCH1103_M09140_2.00__M0918.. 4 (12.1%) ARCH1260_Yy1 4 (12.1%) 4 (12.1%) 4 (12.1%) ARCH76_CES-1__PB0171.1_Sox18_2 4 (12.1%) 4 (12.1%) ARCH1187_/Sox4/Sox11_Sox13/.. 4 (12.1%) 4 (12.1%) ARCH64_Arid2_Arid3c/Arid3a/.. 4 (12.1%) 4 (12.1%) ARCH1408_GATA20 4 (12.1%) 4 (12.1%) ARCH882_M07997_2.00__M09622.. 4 (12.1%) 4 (12.1%) ARCH428_RAP211 ARCH647_Smad2/Smad3_Smad9/S... + 11 (33.3%) 11 (33.3%) ARCH647_Smad2/Smad3_Smad9/S...+ 6 (18.2%) 6 (18.2%) ARCH647_Smad2/Smad3_Smad9/S... + 6 (18.2%) 6 (18.2%) ARCH438_Spacer + 6 (18.2%) 6 (18.2%) ARCH895_Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S... + 5 (15.2%) 5 (15.2%) ARCH1164, /Sox4/Sox11 Sox13/... ARCH647_Smad2/Smad3_Smad9/S... + 5 (15.2%) 5 (15.2%) ARCH647_Smad2/Smad3_Smad9/S...+ 5 (15.2%) 5 (15.2%) ARCH647_Smad2/Smad3_Smad9/S...+ 5 (15.2%) 5 (15.2%) ARCH647_Smad2/Smad3_Smad9/S...+ 5 (15.2%) 5 (15.2%) ARCH1177_/Sox4/Sox11_Sox13/... ARCH438_Spdef + 5 (15.2%) 5 (15.2%) ARCH1537_PAX6__PB0091.1_Zbt... ARCH438_Spdef + 5 (15.2%) 5 (15.2%) ARCH1164_/Sox4/Sox11_Sox13/... ARCH438_Spdef + 5 (15.2%) 5 (15.2%) ARCH1418 Sox7 ARCH438 Spder + 5 (15.2%) 5 (15.2%) ARCH1164_/Sox4/Sox11_Sox13/...+ 5 (15.2%) 5 (15.2%) ARCH1204ARCH1419 Sox21 4 (12.1%) 4 (12.1%) ARCH647 Smad2/Smad3 Smad9/S... + ARCH647 Smad2/Smad3 Smad9/S... + 4 (12.1%) 4 (12.1%) ARCH1265_TFCP2_Tcfcp2l1_G... ARCH647_Smad2/Smad3_Smad9/S... + 4 (12.1%) 4 (12.1%) ARCH647_Smad2/Smad3_Smad9/S...+ 4 (12.1%) 4 (12.1%) ARCH178 Foxc2/Foxc1 Foxg1/G... ARCH647_Smad2/Smad3_Smad9/S... + 4 (12.1%) 4 (12.1%) ARCH76_CES_1_PB0171.1_Sox18_2 ARCH647_Smad2/Smad3_Smad9/S...+ 4 (12.1%) 4 (12.1%) ARCH895_Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S...+ 4 (12.1%) 4 (12.1%) ARCH1408_GATA20 ARCH438_Spdef + 4 (12.1%) 4 (12.1%) 4 (12.1%) 4 (12.1%) ARCH1265_TFCP2_Tcfcp2l1_G... ARCH438_Spdef + 4 (12.1%) 4 (12.1%) 4 (12.1%) 4 (12.1%) ARCH1064_M06023_2.00 _ M0284... ARCH438_Spdef + 4 (12.1%) 4 (12.1%) ARCH1177_/Sox4/Sox11_Sox13/... ARCH438 Spdef + 4 (12.1%) 4 (12.1%) ARCH1164_/Sox4/Sox11_Sox13/...+ 4 (12.1%) 4 (12.1%) ARCH1418 Sox7 ARCH1419_Sox21+ 2 4 (12.1%) 4 (12.1%) ARCH1895 Foxn4/Foxn1 ARCH1204_ARR1__ZNF24+ 3 (9.1%) 3 (9.1%) ARCH1174_/Sox4/Sox11_Sox13/...+ 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) ARCH1064 M06023 2.00 M0284... ARCH647_Smad2/Smad3_Smad9/S... + 3 (9.1%) 3 (9.1%) ARCH882 M07997 2.00 M09622... ARCH647_Smad2/Smad3_Smad9/S... + 3 (9.1%) 3 (9.1%) ARCH647_Smad2/Smad3_Smad9/S... + 3 (9.1%) 3 (9.1%) ARCH873 Pax5/Pax8/Pax2 ARCH438_Spdef + ARCH138_/Sox4/Sox11 Sox13/... ARCH438_Spdef + ARCH669 TCP17 ARCH438_Spdef + ARCH1103_M09140_2.00 M0918... ARCH438_Spdef + 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) ARCH178_Foxc2/Foxc1_Foxg1/G... ARCH438_Spdef + 3 (9.1%) 3 (9.1%) ARCH1260 Yy1 ARCH438_Spder+ 3 (9.1%) 3 (9.1%) ARCH1187_/Sox4/Sox11_Sox13/... ARCH438_Spdef + 3 (9.1%) 3 (9.1%) ARCH1537_PAX6__PB0091.1_Zbt... + 3 (9.1%) 3 (9.1%) ARCH1164 \Sox4\Sox11 Sox13\... ARCH1537_PAX6__PB0091.1_Zbt...+ 3 (9.1%) 3 (9.1%) ARCH1537_PAX6__PB0091.1_Zbt...+ 3 (9.1%) 3 (9.1%) ARCH1537_PAX6___PB0091.1_Zbt...+ 3 (9.1%) 3 (9.1%) ARCH1138 \Sox4\Sox11_Sox13/... ARCH1537_PAX6__PB0091.1_Zbt...+ 3 (9.1%) 3 (9.1%) ARCH895 Foxn4/Foxn1 ARCH1164_/Sox4/Sox11_Sox13/...+ 3 (9.1%) 3 (9.1%) ARCH164_Arid2_Arid3c/Arid3a/...+ 3 (9.1%) 3 (9.1%) ARCH1397_RBFox2_OCT:QCT_short ARCH1164_/S0x4/S0x11_S0x13/... + 3 (9.1%) 3 (9.1%) ARCH873 Pax5/Pax8/Pax2 ARCH1419_Sox21+ 3 (9.1%) 3 (9.1%) ARCH1419_Sox21+ 3 (9.1%) 3 (9.1%) ARCH1177_/Sox4/Sox11_Sox13/... ARCH1265_TFCP2__Tcfcp2t1__G...+ 3 (9.1%) 3 (9.1%) __ARCH1418_Sox7 ARCH1418_Sox7+ 3 (9.1%) 3 (9.1%) ARCH1627 Xbp1 ARCH1418_Sox7+ 3 (9.1%) 3 (9.1%) ARCH1177_/Sox4/Sox11_Sox13/... ARCH1627_Xbp1+ 3 (9.1%) 3 (9.1%) ARCH895_Foxn4/Foxn1+ 3 (9.1%) 3 (9.1%) ARCH1397_RBFox2__OCT:OCT-short +
ARCH873_Pax5/Pax8/Pax2
ARCH647_Smad2/Smad3_Smad9/S... + 3 (9.1%) 3 (9.1%) 4 (12.1%) 4 (12.1%) ARCH6471537_FAX6ABCT 4 (12.1%) 4 (12.1%) ARCH647456347563 4 (12.1%) 4 (12.1%) ARCH647_Smad2/Sn 4 (12.1%) 4 (12.1%) ARCHITISON ARCH647_Smad2/Sm 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) ARCH647 Smad2/Sm 3 (9.1%) 3 (9.1%) ARCH647_Smad2/Smad3_Smad9/Sox11
ARCH647_Smad2/Smad3_Smad9/Sox11 ARCH647_Smad2/Sn 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) ARCH647_Smad2/Smake 3 (9.1%) 3 (9.1%) ARCH647 Smad2/Sma ARCH1265_TFCP2 3 (9.1%) 3 (9.1%) ARCH1265_TFCP2 3 (9.1%) 3 (9.1%) 3 (9.1%) 3 (9.1%) ARCH895 Foxn47Foxn1 - ARCH647_Smad2/Smad3+278ad9/S217 3 (9.1%) 3 (9.1%) ARCH1265_TFCP2__Tcfcp2l1__G... + 3 (9.1%) 3 (9.1%) ARCH1418_Sox70 20 40 40 20 60 % of peaks

ectoderm q0.95-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers ARCH1078_SOX15 11 (33.3%) 11 (33.3%) 9 (27.3%) 9 (27.3%) ARCH438_Spdef 9 (27.3%) 9 (27.3%) ARCH895_Foxn4/Foxn1 6 (18.2%) ARCH647_Smad2/Smad3_Smad9/S... 6 (18.2%) 5 (15.2%) 5 (15.2%) ARCH1418_Sox7 ARCH1627_Xbp1 5 (15.2%) 5 (15.2%) ARCH1138_/Sox4/Sox11_Sox13/...-5 (15.2%) 5 (15.2%) 1 motif ARCH483_Tbx3/Tbx2 5 (15.2%) 5 (15.2%) ARCH1167_/Sox4/Sox11_Sox13/... 5 (15.2%) 5 (15.2%) ARCH872_Pax5/Pax8/Pax2-5 (15.2%) 5 (15.2%) 4 (12.1%) 4 (12.1%) ARCH508_Ebf2 4 (12.1%) ARCH1248_/E2f4_E2f6 4 (12.1%) 4 (12.1%) 4 (12.1%) ARCH15_HNRNPC 4 (12.1%) 4 (12.1%) ARCH629_Brn1 ARCH1078_SOX15 + 4 (12.1%) 4 (12.1%) ARCH895_Foxn4/Foxn1 ARCH1078_SOX15 + ARCH15_HNRNPC 4 (12.1%) 4 (12.1%) ARCH438_Spdef + ARCH508_Ebf2 3 (9.1%) 3 (9.1%) ARCH438_Spdef + ARCH647_Smad2/Smad3_Smad9/S... 3 (9.1%) 3 (9.1%) 2 motifs ARCH438_Spdef + ARCH895_Foxn4/Foxn1 3 (9.1%) 3 (9.1%) ARCH1627_Xbp1 + ARCH1078_SOX15 3 (9.1%) 3 (9.1%) ARCH1078_SOX15 + ARCH647_Smad2/Smad3_Smad9/S... 3 (9.1%) 3 (9.1%) ARCH1078_SOX15 + 3 (9.1%) 3 (9.1%) ARCH1167_/Sox4/Sox11_Sox13/... ARCH647_Smad2/Smad3_Smad9/S... + ARCH895_Foxn4/Foxn1 3 (9.1%) 3 (9.1%) 10 20 20 30 10 30 % of peaks





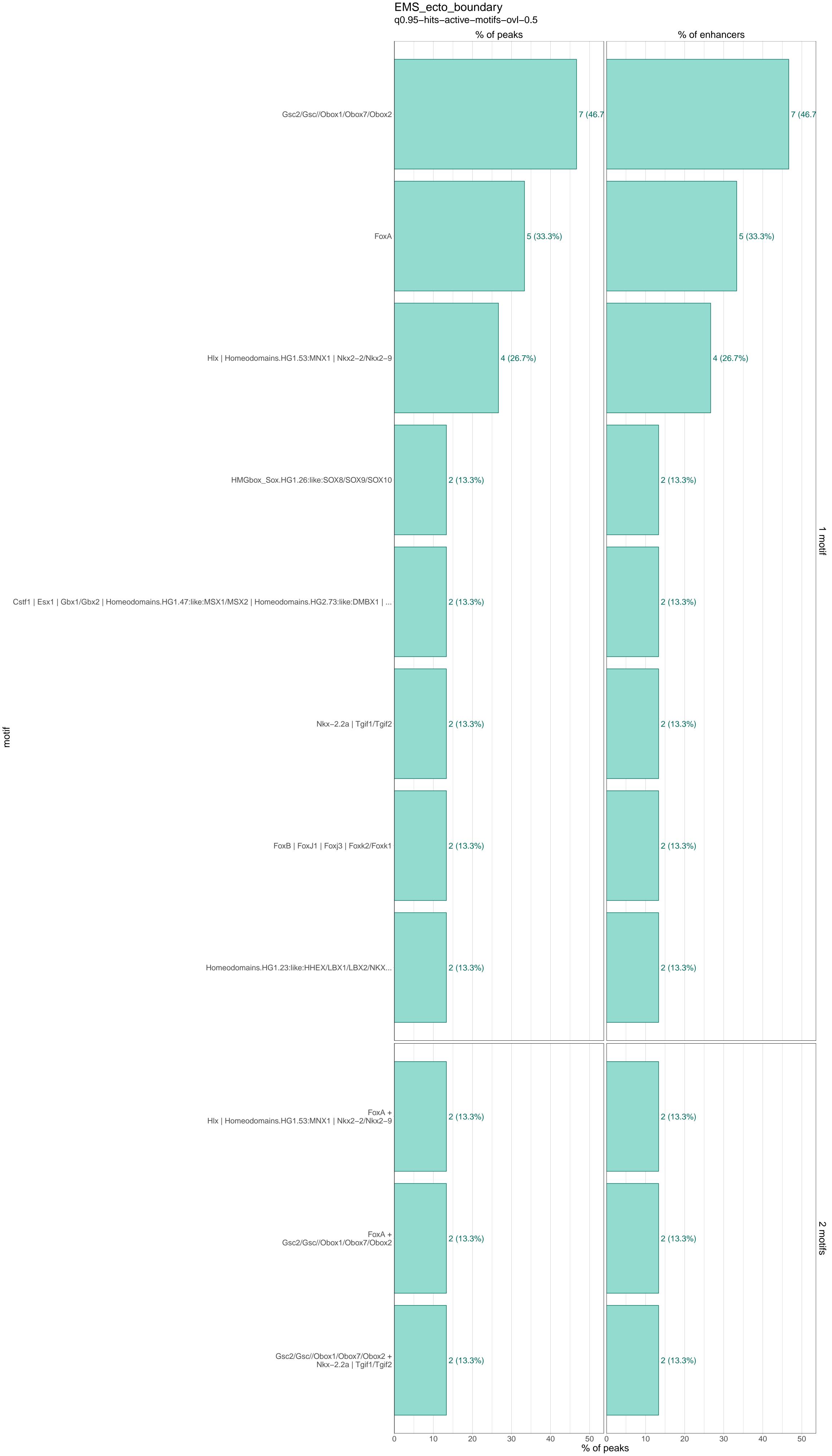
ecto_aboral q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 70 (40 70 (40 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... 49 (28.7%) 49 (28.7%) Lhx8/Lhx6 48 (28.1%) 48 (28.1%) Tbx5/Tbx4 42 (24.6%) 42 (24.6%) NOTO 35 (20.5%) 35 (20.5%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax 30 (17.5%) 30 (17.5%) Islet | Vsx1/Vsx2 motif 26 (15.2%) FoxQ2a 26 (15.2%) NvSox2 | NvSoxC 25 (14.6%) 25 (14.6%) 22 (12.9%) 22 (12.9%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... 20 (11.7%) 20 (11.7%) T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... 18 (10.5%) 18 (10.5%) 18 (10.5%) 18 (10.5%) Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 20 (11.7%) 20 (11.7%) Lhx8/Lhx6 Tbx5/Tbx4 + 19 (11.1%) 19 (11.1%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Tbx5/Tbx4 +18 (10.5%) 18 (10.5%) NOTO / Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + | 16 (9.4%) 16 (9.4%) NOTO Tbx5/Tbx4 + 15 (8.8%) 15 (8.8%) Lhx8/Lhx6 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 12 (7.0%) 12 (7.0%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 11 (6.4%) 11 (6.4%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... NOTO + 11 (6.4%) 11 (6.4%) Lhx8/Lhx6 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 10 (5.8%) 10 (5.8%) NvSox2 | NvSoxC /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 10 (5.8%) 10 (5.8%) Islet | Vsx1/Vsx2 Lhx8/Lhx6 + 10 (5.8%) 10 (5.8%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax Islet | Vsx1/Vsx2 + 10 (5.8%) 10 (5.8%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax 9 (5.3%) 9 (5.3%) NOTO Tbx5/Tbx4 +9 (5.3%) 9 (5.3%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... FoxQ2a + 8 (4.7%) 8 (4.7%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 8 (4.7%) 8 (4.7%) T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB... T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB... + 8 (4.7%) 8 (4.7%) NOTO + 8 (4.7%) 8 (4.7%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax FoxQ2a + 7 (4.1%) 7 (4.1%) Lhx8/Lhx6 Tbx5/Tbx4 + 7 (4.1%) 7 (4.1%) NvSox2 | NvSoxC /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 7 (4.1%) 7 (4.1%) Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/... NvSox2 | NvSoxC + 7 (4.1%) 7 (4.1%) NOTO NvSox2 | NvSoxC + 7 (4.1%) 7 (4.1%) Lhx8/Lhx6 Lhx8/Lhx6 + 7 (4.1%) 7 (4.1%) Islet | Vsx1/Vsx2 Tbx5/Tbx4 + 6 (3.5%) 6 (3.5%) Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/. 6 (3.5%) 6 (3.5%) Islet | Vsx1/Vsx2 2 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 6 (3.5%) 6 (3.5%) motifs Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2. NvSox2 | NvSoxC + 6 (3.5%) 6 (3.5%) Anthox1/Ax1 | Msx2/Msx1/Msx3 LRax 6 (3.5%) 6 (3.5%) Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/ 5 (2.9%) 5 (2.9%) Tbx5/Tbx4 5 (2.9%) 5 (2.9%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax 5 (2.9%) 5 (2.9%) T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB. 5 (2.9%) 5 (2.9%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 5 (2.9%) 5 (2.9%) T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB...+ 5 (2.9%) 5 (2.9%) 5 (2.9%) 5 (2.9%) 5 (2.9%) 5 (2.9%) Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/... + 5 (2.9%) 5 (2.9%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax 4 (2.3%) 4 (2.3%) Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/. 4 (2.3%) 4 (2.3%) 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... + 4 (2.3%) 4 (2.3%) T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB... FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 4 (2.3%) 4 (2.3%) 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... + 4 (2.3%) 4 (2.3%) 4 (2.3%) 4 (2.3%) Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/. FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB 4 (2.3%) 4 (2.3%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/... 4 (2.3%) 3 (1.8%) 3 (1.8%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX Anthox1/Ax1 | Msx2/Msx1/W T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX 3 (1.8%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains. 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.. 7 (4.1%) 7 (4.1%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.Hoto 6 (3.5%) 6 (3.5%) 6 (3.5%) 6 (3.5%) 5 (2.9%) 5 (2.9%) Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomair 5 (2.9%) 5 (2.9%) 4 (2.3%) 4 (2.3%) 4 (2.3%) FoxQ2d | Forkhead.HG1.31:like:FQXO1/FQX 4 (2.3%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hestal / Duxbl1//AW822073/Gm4981/Duxf3 | Hestal / Duxbl1//AW822073/Gm4981/Duxbl1//AW822073/Gm4981/Duxf3 | Hestal / Duxbl1//AW822073/Gm4981/Duxf3 | Hestal / Duxbl1//AW822073/Gm4981/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/Duxbl1//AW820074/D Anthox1/Ax1 | Msx2/Msx1/N 3 (1.8%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomain 3 (1.8%) motifs (1.8%)/Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains. H 3 (1.8%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOX /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeod /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeod 3 (1.8%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FO T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/PBX4/PF FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX 3 (1.8%) NvSox2 | NvSoxC + 3 (1.8%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Dexf3/International // International // Internatio 3 (1.8%) 3 (1.8%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homesical Property | Homesical Islet | Vsx1/Vsx2 + Anthox1/Ax1 | Msx2/M9x4/Msx9946ax 3 (1.8%) Anthox1/Ax1 | Msx2/Msx1/Msx9/TRax Lhx8/Lhx6 + Anthox1/Ax1 | Msx2/Msx1/Msx3/hx6ax 3 (1.8%) 3 (1.8%) Islet | Vsx1/Vsx2 + Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax 10 20 30 40 10 20 30 % of peaks



EMS q0.95-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 304 (26.9% 304 (26.9% ARCH438_Spdef 261 (23.1%) 261 (23.1%) ARCH647_Smad2/Smad3_Smad9/S... 208 (18.4%) 208 (18.4%) ARCH581_Elf3/Ehf/Elf5_Erg/F.. 1 motif 170 (15.0%) 170 (15.0%) ARCH1408_GATA20 ARCH483_Tbx3/Tbx2 159 (14.1%) 159 (14.1%) 144 (12.7%) 144 (12.7%) ARCH895_Foxn4/Foxn1 119 (10.5%) 119 (10.5%) ARCH1627_Xbp1 ARCH647_Smad2/Smad3_Smad9/S... + 74 (6.5%) 74 (6.5%) ARCH438_Spdef ARCH438_Spdef + 59 (5.2%) 59 (5.2%) ARCH581_Elf3/Ehf/Elf5_Erg/F.. ARCH438_Spdef + 50 (4.4%) 50 (4.4%) ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 48 (4.2%) 48 (4.2%) ARCH581_Elf3/Ehf/Elf5_Erg/F... ARCH438_Spdef + 44 (3.9%) 44 (3.9%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 43 (3.8%) 43 (3.8%) ARCH483_Tbx3/Tbx2 ARCH647_Smad2/Smad3_Smad9/S... + 43 (3.8%) 43 (3.8%) ARCH1408_GATA20 ARCH438_Spdef + 43 (3.8%) 43 (3.8%) ARCH895_Foxn4/Foxn1 ARCH438_Spdef + 35 (3.1%) 35 (3.1%) ARCH1627_Xbp1 ARCH647_Smad2/Smad3_Smad9/S... + 34 (3.0%) 34 (3.0%) ARCH895_Foxn4/Foxn1 2 motifs ARCH581_Elf3/Ehf/Elf5_Erg/F... + 34 (3.0%) 34 (3.0%) ARCH1408_GATA20 ARCH483_Tbx3/Tbx2 + 32 (2.8%) 32 (2.8%) ARCH1408_GATA20 ARCH581_Elf3/Ehf/Elf5_Erg/F... + 31 (2.7%) 31 (2.7%) ARCH895 Foxn4/Foxn1 ARCH647 Smad2/Smad3 Smad9/S... + 30 (2.7%) 30 (2.7%) ARCH1627_Xbp1 ARCH1627_Xbp1 + 22 (1.9%) 22 (1.9%) ARCH1408_GATA20 ARCH581_Elf3/Ehf/Elf5_Erg/F... + 20 (1.8%) 20 (1.8%) ARCH1627_Xbp1 ARCH1627_Xbp1 + 20 (1.8%) 20 (1.8%) ARCH895_Foxn4/Foxn1 ARCH1408_GATA20 + 20 (1.8%) 20 (1.8%) ARCH895_Foxn4/Foxn1 ARCH1627_Xbp1 + 19 (1.7%) 19 (1.7%) ARCH483_Tbx3/Tbx2 ARCH581_Elf3/Ehf/Elf5_Erg/F... + 18 (1.6%) 18 (1.6%) ARCH483_Tbx3/Tbx2 ARCH483_Tbx3/Tbx2 + 14 (1.2%) 14 (1.2%) ARCH895_Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S... + ARCH438_Spdef + ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 16 (1.4%) 16 (1.4%) ARCH438_Spdef + 15 (1.3%) 15 (1.3%) ARCH581_Elf3/Ehf/Elf5_Erg/F... ARCH647_Smad2/Smad3_Smad9/S... + ARCH438_Spdef + 14 (1.2%) 14 (1.2%) ARCH483_Tbx3/Tbx2 ARCH438_Spdef + ARCH581_Elf3/Ehf/Elf5_Erg/F... + 11 (1.0%) 11 (1.0%) ARCH1408_GATA20 ARCH438_Spdef + 11 (1.0%) ARCH581_Elf3/Ehf/Elf5_Erg/F... + 11 (1.0%) ARCH895_Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S... + 10 (0.9%) 10 (0.9%) ARCH483_Tbx3/Tbx2 + ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 9 (0.8%) 9 (0.8%) ARCH438_Spdef + ARCH1627_Xbp1 _ ARCH647_Smad2/Smad3_Smad9\(\bar{S}\)... + 9 (0.8%) 9 (0.8%) ARCH438_Spdef + ARCH895 Foxn4/Foxn1 ARCH438_Spdef + 9 (0.8%) ARCH1627_Xbp1 + 9 (0.8%) ARCH1408_GATA20 ARCH438_Spdef + 9 (0.8%) ARCH483 Tbx3/Tbx2 + 9 (0.8%) ARCH1408_GATA20 _ ARCH647 Smad2/Smad3 Smad9/S... + 7 (0.6%) ARCH581_Elf3/Ehf/Elf5_Erg/F... + 7 (0.6%) ARCH895 Foxn4/Foxn1 ARCH647 Smad2/Smad3 Smad9/S... + ARCH581_Elf3/Ehf/Elf5_Erg/F... + 6 (0.5%) 6 (0.5%) ARCH483_Tbx3/Tbx2 _ ARCH438_Spdef + ARCH1627_Xbp1 + 6 (0.5%) 6 (0.5%) ARCH483_Tbx3/Tbx2 _ ယ motifs ARCH1627_Xbp1 + □ ARCH483_Tbx3/Tbx2 + 6 (0.5%) 6 (0.5%) ARCH1408 GATA20 ARCH647_Smad2/Smad3_Smad9/S... + 5 (0.4%) ARCH581_Elf3/Ehf/Elf5_Erg/F... + | 5 (0.4%) ARCH1627_Xbp1 ARCH647_Smad2/Smad3_Smad9/S... + ARCH581_Elf3/Ehf/Elf5_Erg/F... + 5 (0.4%) 5 (0.4%) ARCH1408_GATA20 ARCH647_Smad2/Smad3_Smad9/S... + ARCH1627_Xbp1 + 5 (0.4%) 5 (0.4%) ARCH1408 GATA20 L ARCH438_Spdef + ARCH581_Elf3/Ehf/Elf5_Erg/F... + 5 (0.4%) 5 (0.4%) ARCH1627_Xbp1 ARCH438_Spdef + 5 (0.4%) ARCH1627_Xbp1 + 5 (0.4%) ARCH895 Foxn4/Foxn1 ARCH581_Elf3/Ehf/Elf5_Erg/F... + 5 (0.4%) ARCH1627_Xbp1 + 5 (0.4%) ARCH1408 GATA20 ARCH581_Elf3/Ehf/Elf5_Erg/F... + 5 (0.4%) ARCH1408_GATA20 + 5 (0.4%) ARCH895 Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S... + 4 (0.4%) $ARCH1627_Xbp1 + | 4 (0.4\%)$ ARCH483 Tbx3/Tbx2 □ ARCH438_Spdef + 4 (0.4%) ARCH581_Elf3/Ehf/Elf5_Erg/F... + 4 (0.4%) ARCH483 Tbx3/Tbx2 ☐ ARCH581_Elf3/Ehf/Elf5_Erg/F... + 4 (0.4%) ARCH1627_Xbp1 + 4 (0.4%) ARCH895 Foxn4/Foxn1 ARCH1627_Xbp1 + □ ARCH1408_GATA20 + 4 (0.4%) 4 (0.4%) ARCH895_Foxn4/Foxn1 | ARCH647_Smad2/Smad3_Smad9/S... + ARCH1408_GATA20 + 3 (0.3%) 3 (0.3%) ARCH895_Foxn4/Foxn1 ARCH438_Spdef + ARCH1408_GATA20 + || 3 (0.3%) 3 (0.3%) ARCH895 Foxn4/Foxn1 ARCH647_Smad2/Smad3_Smad9/S... + ARCH438_Spdef + 6 (0.5%) 6 (0.5%) ARCH483_Tbx3/Tbx2 + 4 motifs ARCH647_Smad2/Syrrack31&008ad9A\$A20 ARCH438_Spdef + 3 (0.3%) 3 (0.3%) ARCH581_Elf3/Ehf/Elf5_Erg/F... + ARCH647_Smaqlatonegos_somedofsxnt ARCH438_Spdef + 3 (0.3%) 3 (0.3%) ARCH1627_Xbp1 + ARCH1408_GATA20 10 10 20 30 0 20 30 % of peaks

EMS q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 835 (7 835 (7 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Gsc2/Gsc//Obox1/Obox7/Obox2 439 (39.4%) 439 (39.4%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev 321 (28.8%) 321 (28.8%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO 277 (24.9%) 277 (24.9%) 244 (21.9%) 244 (21.9%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... 218 (19.6%) 218 (19.6%) Tbx5/Tbx4 1 motif Hand2 | Msgn1/Mesp2/Mesp1 199 (17.9%) 199 (17.9%) Nkx-2.2a | Tgif1/Tgif2 191 (17.1%) 191 (17.1%) Six4/5 | Hnf1a/Hnf1b 186 (16.7%) 186 (16.7%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... 169 (15.2%) 169 (15.2%) 138 (12.4%) 138 (12.4%) zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N... 129 (11.6%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20-129 (11.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 333 (29.9%) 333 (29.9%) Gsc2/Gsc//Obox1/Obox7/Obox2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 230 (20.6%) 230 (20.6%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 202 (18.1%) 202 (18.1%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 183 (16.4%) 183 (16.4%) 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 + 162 (14.5%) 162 (14.5%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 150 (13.5%) 150 (13.5%) Nkx-2.2a | Tgif1/Tgif2 Hand2 | Msgn1/Mesp2/Mesp1 + 142 (12.7%) 142 (12.7%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 139 (12.5%) 139 (12.5%) Six4/5 | Hnf1a/Hnf1b Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 118 (10.6%) 118 (10.6%) Gsc2/Gsc//Obox1/Obox7/Obox2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 115 (10.3%) 115 (10.3%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 98 (8.8%) 98 (8.8%) zf-C4 Nuclear receptors.HG1.25:like:NR2F1/N... VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 96 (8.6%) 96 (8.6%) Gsc2/Gsc//Obox1/Obox7/Obox2 Gsc2/Gsc//Obox1/Obox7/Obox2 + 90 (8.1%) 90 (8.1%) Tbx5/Tbx4 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 89 (8.0%) 89 (8.0%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 Six4/5 | Hnf1a/Hnf1b + 84 (7.5%) 84 (7.5%) Gsc2/Gsc//Obox1/Obox7/Obox2 Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 81 (7.3%) 81 (7.3%) Gsc2/Gsc//Obox1/Obox7/Obox2 Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 77 (6.9%) 77 (6.9%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Hand2 | Msgn1/Mesp2/Mesp1 + 75 (6.7%) 75 (6.7%) Gsc2/Gsc//Obox1/Obox7/Obox2 motifs Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 75 (6.7%) 75 (6.7%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 67 (6.0%) 67 (6.0%) Gsc2/Gsc//Obox1/Obox7/Obox2 Nkx-2.2a | Tgif1/Tgif2 + 62 (5.6%) 62 (5.6%) Gsc2/Gsc//Obox1/Obox7/Obox2 Hand2 | Msgn1/Mesp2/Mesp1 + 60 (5.4%) 60 (5.4%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 60 (5.4%) 60 (5.4%) Tbx5/Tbx4 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 57 (5.1%) 57 (5.1%) Six4/5 | Hnf1a/Hnf1b + 54 (4.8%) 54 (4.8%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 54 (4.8%) 54 (4.8%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 50 (4.5%) 50 (4.5%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 48 (4.3%) 48 (4.3%) Nkx-2.2a | Tgif1/Tgif2 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 48 (4.3%) 48 (4.3%) Nkx-2.2a | Tgif1/Tgif2 zf-C4_Nuclear_receptors.HG1.25:like:NR2F1/N... + 47 (4.2%) 47 (4.2%) Gsc2/Gsc//Obox1/Obox7/Obox2 Hand2 | Msgn1/Mesp2/Mesp1 + 44 (3.9%) 44 (3.9%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Hand2 | Msgn1/Mesp2/Mesp1 + 42 (3.8%) 42 (3.8%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Six4/5 | Hnf1a/Hnf1b + 42 (3.8%) 42 (3.8%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Six4/5 | Hnf1a/Hnf1b + 42 (3.8%) 42 (3.8%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 42 (3.8%) 42 (3.8%) Nkx-2.2a | Tgif1/Tgif2 Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 41 (3.7%) 41 (3.7%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 84 (7.5%) 84 (7.5%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev + Gsc2/Gsc//Obox1/Obox7/Obox2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 72 (6.5%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 72 (6.5%) Gsc2/Gsc//Obox1/Obox7/Obox2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 71 (6.4%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 71 (6.4%) Gsc2/Gsc//Obox1/Obox7/Obox2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + Gsc2/Gsc//Obox1/Obox7/Obox2 + 68 (6.1%) 68 (6.1%) Tbx5/Tbx4 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 63 (5.7%) 63 (5.7%) Six4/5 | Hnf1a/Hnf1b + Gsc2/Gsc//Obox1/Obox7/Obox2 Hand2 | Msgn1/Mesp2/Mesp1 + 53 (4.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 53 (4.8%) mo Gsc2/Gsc//Obox1/Obox7/Obox2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 53 (4.8%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 53 (4.8%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 53 (4.8%) 53 (4.8%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 53 (4.8%) 53 (4.8%) Nkx-2.2a | Tgif1/Tgif2 + Gsc2/Gsc//Obox1/Obox7/Obox2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 48 (4.3%) 48 (4.3%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + Gsc2/Gsc//Obox1/Obox7/Obox2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 47 (4.2%) 47 (4.2%) Tbx5/Tbx4 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + Six4/5 | Hnf1a/Hnf1b + 41 (3.7%) 41 (3.7%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev 40 40 80 20 60 20 60 % of peaks

EMS q0.95-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 850 (77. 850 (77 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Gsc2/Gsc//Obox1/Obox7/Obox2 550 (50.0%) 550 (50.0%) 288 (26.2%) 288 (26.2%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO 1 motif 214 (19.5%) 214 (19.5%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev 122 (11.1%) 122 (11.1%) Nkx-2.2a | Tgif1/Tgif2 114 (10.4%) Hand2 | Msgn1/Mesp2/Mesp1 114 (10.4%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 420 (38.2%) 420 (38.2%) Gsc2/Gsc//Obox1/Obox7/Obox2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 215 (19.6%) 215 (19.6%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 153 (13.9%) 153 (13.9%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 132 (12.0%) 132 (12.0%) Gsc2/Gsc//Obox1/Obox7/Obox2 Gsc2/Gsc//Obox1/Obox7/Obox2 + 103 (9.4%) 103 (9.4%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 90 (8.2%) 90 (8.2%) Nkx-2.2a | Tgif1/Tgif2 Hand2 | Msgn1/Mesp2/Mesp1 + 88 (8.0%) 88 (8.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 2 motifs Nkx-2.2a | Tgif1/Tgif2 + Gsc2/Gsc//Obox1/Obox7/Obox2 59 (5.4%) 59 (5.4%) Hand2 | Msgn1/Mesp2/Mesp1 + 56 (5.1%) 56 (5.1%) Gsc2/Gsc//Obox1/Obox7/Obox2 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 50 (4.5%) 50 (4.5%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 32 (2.9%) 32 (2.9%) Nkx-2.2a | Tgif1/Tgif2 Hand2 | Msgn1/Mesp2/Mesp1 + 27 (2.5%) 27 (2.5%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Hand2 | Msgn1/Mesp2/Mesp1 + 23 (2.1%) 23 (2.1%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Nkx-2.2a | Tgif1/Tgif2 + 20 (1.8%) 20 (1.8%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Hand2 | Msgn1/Mesp2/Mesp1 + 16 (1.5%) 16 (1.5%) Nkx-2.2a | Tgif1/Tgif2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 97 (8.8%) 97 (8.8%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + Gsc2/Gsc//Obox1/Obox7/Obox2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 76 (6.9%) 76 (6.9%) Gsc2/Gsc//Obox1/Obox7/Obox2 + Elf3/Ehf/Elf5 | Erg/Fli1/Fev Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 45 (4.1%) Nkx-2.2a | Tgif1/Tgif2 + 45 (4.1%) Gsc2/Gsc//Obox1/Obox7/Obox2 Hand2 | Msgn1/Mesp2/Mesp1 + 42 (3.8%) 42 (3.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + Gsc2/Gsc//Obox1/Obox7/Obox2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 35 (3.2%) 35 (3.2%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 27 (2.5%) 27 (2.5%) Gsc2/Gsc//Obox1/Obox7/Obox2 + Elf3/Ehf/Elf5 | Erg/Fli1/Fev | Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 25 (2.3%) 25 (2.3%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + Nkx-2.2a | Tgif1/Tgif2 Hand2 | Msgn1/Mesp2/Mesp1 + 20 (1.8%) 20 (1.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + Elf3/Ehf/Elf5 | Erg/Fli1/Fev Hand2 | Msgn1/Mesp2/Mesp1 + 18 (1.6%) 18 (1.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Hand2 | Msgn1/Mesp2/Mesp1 + 14 (1.3%) Gsc2/Gsc//Obox1/Obox7/Obox2 + 14 (1.3%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + Nkx-2.2a | Tgif1/Tgif2 + 12 (1.1%) 12 (1.1%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Hand2 | Msgn1/Mesp2/Mesp1 + 11 (1.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 11 (1.0%) Nkx-2.2a | Tgif1/Tgif2 Nkx-2.2a | Tgif1/Tgif2 + 11 (1.0%) Gsc2/Gsc//Obox1/Obox7/Obox2 + 11 (1.0%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Hand2 | Msgn1/Mesp2/Mesp1 + VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + | 9 (0.8%) 9 (0.8%) Gsc2/Gsc//Obox1/Obox7/Obox2 Hand2 | Msgn1/Mesp2/Mesp1 + Nkx-2.2a | Tgif1/Tgif2 + || 9 (0.8%) 9 (0.8%) Gsc2/Gsc//Obox1/Obox7/Obox2 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 9 (0.8%) Nkx-2.2a | Tgif1/Tgif2 + | 9 (0.8%) Gsc2/Gsc//Obox1/Obox7/Obox2 Hand2 | Msgn1/Mesp2/Mesp1 + VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 6 (0.5%) 6 (0.5%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 6 (0.5%) Nkx-2.2a | Tgif1/Tgif2 + $\| 6 (0.5\%) \|$ Elf3/Ehf/Elf5 | Erg/Fli1/Fev | Hand2 | Msgn1/Mesp2/Mesp1 + VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + | 5 (0.5%) 5 (0.5%) Nkx-2.2a | Tgif1/Tgif2 Hand2 | Msgn1/Mesp2/Mesp1 + Nkx-2.2a | Tgif1/Tgif2 + 4 (0.4%) 4 (0.4%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + [VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 19 (1.7%) 19 (1.7%) Gsc2/Gsc//Obox1/Obox7/Obox2 + Hand Elf BM Egit / Elf Mes p 20 MT els p 10 ev Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 10 (0.9%) 10 (0.9%) Gsc2/Gsc//Obox1/Obox7/Obox2 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Folia For the foliation of the foliation o Nkx-2.2a | Tgif1/Tgif2 + 8 (0.7%) 8 (0.7%) Gsc2/Gsc//Obox1/Obox7/Obox2 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Fotological for the control of t VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 7 (0.6%) 7 (0.6%) Nkx-2.2a | Tgif1/Tgif2 + Han2/25 km/sqhox/wespex/vespex2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 6 (0.5%) 6 (0.5%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + Aan21/25 kM kg h p x x W lesp p x x W lesp p x x 2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 6 (0.5%) 6 (0.5%) Nkx-2.2a | Tgif1/Tgif2 + Panal/SIM/Sphann/Spann/Spann Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 5 (0.5%) 5 (0.5%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + Hand2 | Mygn-12 Mesp 2 gife stgife Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 5 (0.5%) 5 (0.5%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Foliation of the first of the firs VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 4 (0.4%) 4 (0.4%) Nkx-2.2a | Tgif1/Tgif2 + VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 3 (0.3%) 3 (0.3%) Gsc2/Gsc//Obox1/Obox7/Obox2 + Nkx-2.2a | Tgif1/Tgif2 + 3 (0.3%) 3 (0.3%) Gsc2/Gsc//Obox1/Obox7/Obox2 + VAx-EMX-Like | Homeodon Falfa & Falfa Nkx-2.2a | Tgif1/Tgif2 + 3 (0.3%) 3 (0.3%) Gsc2/Gsc//Obox1/Obox7/Obox2 + Elf3/Ehf/Elf5 | Erg/Fli1/Fev 20 60 40 80 40 80 20 60 % of peaks





gastro_circular_muscle_1

q0.95-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 873 (7 873 (70 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 387 (33.9%) 387 (33.9%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO 190 (16.6%) 190 (17.2%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 188 (16.2%) 188 (16.5%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 1 motif 172 (13.3%) 172 (15.1%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... 163 (14.3%) 163 (15.0%) Nkx2-2/Nkx2-9 | Nkx3-2 141 (11.9%) 141 (12.3%) Homeodomains.HG1.5:like:AC004080.3/AC012531... 138 (12.1%) 138 (11.6%) E2F TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 138 (11.5%) 138 (12.1%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 285 (25.0%) 285 (24.8%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 155 (13.6%) 155 (14.0%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 136 (11.9%) 136 (11.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 129 (11.3%) 129 (11.6%) Nkx2-2/Nkx2-9 | Nkx3-2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 121 (10.6%) 121 (8.4%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 115 (10.1%) 115 (9.8%) Homeodomains.HG1.5:like:AC004080.3/AC012531... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 110 (9.6%) 110 (9.1%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 101 (8.8%) 101 (8.4%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 66 (6.2%) 66 (5.8%) Nkx2-2/Nkx2-9 | Nkx3-2 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 66 (5.8%) 66 (6.2%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 HIx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 65 (5.7%) 65 (6.1%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 50 (4.0%) 50 (4.4%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 47 (4.1%) 47 (4.4%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 44 (3.9%) 44 (3.5%) Homeodomains.HG1.5:like:AC004080.3/AC012531... VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 42 (3.7%) 42 (3.1%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 34 (3.0%) 34 (3.1%) Nkx2-2/Nkx2-9 | Nkx3-2 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 34 (3.0%) 34 (2.3%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 30 (2.6%) 30 (2.6%) motifs E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 28 (2.5%) 28 (2.6%) Homeodomains.HG1.5:like:AC004080.3/AC012531... BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 24 (2.1%) 24 (2.0%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 24 (2.1%) 24 (1.8%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 Nkx2-2/Nkx2-9 | Nkx3-2 + 23 (2.0%) 23 (2.1%) Homeodomains.HG1.5:like:AC004080.3/AC012531... BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 23 (2.0%) 23 (1.6%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev $Nkx2-2/Nkx2-9 \mid Nkx3-2 +$ 22 (1.9%) 22 (1.8%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 21 (1.8%) 21 (1.7%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 20 (1.8%) 20 (1.7%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 20 (1.8%) 20 (1.4%) Homeodomains.HG1.5:like:AC004080.3/AC012531.. E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 + 20 (1.8%) 20 (1.4%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... Nkx2-2/Nkx2-9 | Nkx3-2 + 18 (1.6%) 18 (1.7%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... Nkx2-2/Nkx2-9 | Nkx3-2 + 16 (1.4%) 16 (1.4%) E2F TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 E2F TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 + 16 (1.4%) 16 (1.3%) Homeodomains.HG1.5:like:AC004080.3/AC012531.. Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 15 (1.3%) 15 (0.9%) Homeodomains.HG1.5:like:AC004080.3/AC012531.. Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 + 13 (1.1%) 13 (1.1%) Homeodomains.HG1.5:like:AC004080.3/AC012531... Nkx2-2/Nkx2-9 | Nkx3-2 + 12 (1.1%) 12 (1.1%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev E2F TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 + 12 (1.0%) 12 (1.1%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 + 11 (1.0%) 11 (1.0%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 54 (4.7%) 54 (5.0%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + Forkhead.Hdpx1ft0x41/Fbx41/Fbx429F6xAB/FcxBfbrcxB.I.Tbx1RhEbx246bx1Fbx24 50 (4.7%) 50 (4.4%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + HIX | Homeodomains.HG1.53:MHX2-29NIXX2-29NIXX23-2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 43 (3.8%) 43 (4.3%) Forkhead.HG1.1:FOXA1/FOXA2/HOXAE/HOXESP/FUXIBE.PPPMRINEAU.G545!!FOXQTQ 37 (3.2%) 37 (3.5%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 35 (3.1%) 35 (2.4%) 35 (3.1%) 35 (2.8%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 32 (2.8%) 32 (2.6%) HIX | Homeodomains.HG1.53: HIS HIS HIS LEVEL FOR THE HIS LEVEL FOR 28 (2.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 28 (2.5%) HIX | Homeodomains.HG1.53:NHXX2-29NIXX239-2 27 (2.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 27 (2.4%) Forkhead.HJPx1.FOxA1/FOXA1/FOXA19FOXAB/FOXBIPFOXBI.LTP81R4EAX946Px51FOXDX2P BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 23 (2.0%) 23 (2.1%) HIXH 9410696604034135413 G1C5: 1359 MQ Q 94980x3/20/Q R 2535 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 21 (1.8%) 21 (1.7%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXBF/FOXBHG1F6F6F6A6F76A6F76 Nkx2-2/Nkx2-9 | Nkx3-2 + 19 (1.7%) 19 (1.7%) Forkhead.HG1.1:FOXA1/FOXA2/1400X493/1400X1B3/146X1B:!!K9=ARP040893/146X5:P10X531.+ Nkx2-2/Nkx2-9 | Nkx3-2 + 18 (1.6%) 18 (1.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 17 (1.3%) 17 (1.5%) 3 motifs Forkhead.HG1.1:FOXA1/FOXA2/POXPS/POXIB9/PGXB:!!K9=AFRP@4089@1AS:P10X6Q1.+ 17 (1.5%) 17 (1.1%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 + 17 (1.5%) 17 (1.1%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev + Forkhead.HJPx1.FOXA1/FOXA1/FOXA19FOXAB/FOXBIPFOXBI.LTP81RHEAXPAJPX1.FOXA1/FOXA1/FOXA1/FOXA19FOXAB/FOXBIPFOXBI.LTP81RHEAXPAJPX1.FOXA1/FOXA1 BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 16 (0.9%) 16 (1.4%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 16 (1.1%) 16 (1.4%) Forkhead.HGP: 1: FOXA 1/FOXA 1/FOXA 12/FOXA B/FOXBTIPFOXB. I. TPO1RA EAXA GP: 5: FOX EXPP 15 (1.3%) 15 (1.4%) Nkx2-2/Nkx2-9 | Nkx3-2 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXBFGFDXBHGFdrkRead.HG1.1:FOXA1/FOXA2/FOXA3/FOXBFGFDXBHGFDXBHGFAGA/52FGXC2F6 15 (1.3%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 + 15 (1.3%) HIXHOMOROGOMAHASHIGHGA: LIBOR MAQQQQQQRX2/AQQQRX2539.+ Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 14 (1.3%) 14 (1.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | 時候情報情報 Nkx2-2/Nkx2-9 | Nkx3-2 + 14 (1.2%) 14 (1.4%) BarH-Like3 | Lbx | NVHDp33k+AATPIGA!x3#AJX4VAVIKTOKAINPXXVAJAFORXEIONPEIXBHGF37KHLE9:AAQOH98403XAQ++ 14 (0.9%) 14 (1.2%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev + HIXHOMOROGOMORINANTS GIGTS: Little MARQQ408RX3/AQAQK2539.+ Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 12 (1.1%) 12 (0.9%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Pimppx16hteomorphogaing: 1.531/27/1/1/1/1/1/1/1/1/20242/8/1/2024/8/1/20242/8/1/20242/8/1/2024/8/1/2028/8/1/2028/8/1/2028/8/1/2028/8/1/2028/8/1/2028/8/1/2028/8/1/2028/8/1/2028/8/1/2028/8/1/2028/8/1/2028/8/1/2028/8/1/201/8/1/2028/8/1/201/8/1/201/8/1/201/201/ 12 (1.1%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 12 (0.7%) Tbx1/10-1 | Tbx1/110-12dmB&&0mlaias:49G1.539M168(Tbx26/202161kx20x20 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 11 (1.0%) 11 (1.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | FORKHEAD! HG2-59. FOKE | FORKHEAD! HG2-59. FOKE | FORKHEAD! HG2-59. FOKE | FOKE 11 (1.0%) Nkx2-2/Nkx2-9 | Nkx3-2 + 11 (1.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | 時候情報情報的 11 (1.0%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 + 11 (1.0%) 11 (1.0%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 11 (1.0%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 20 60 40 20 40 60 80 80 % of peaks

% of peaks

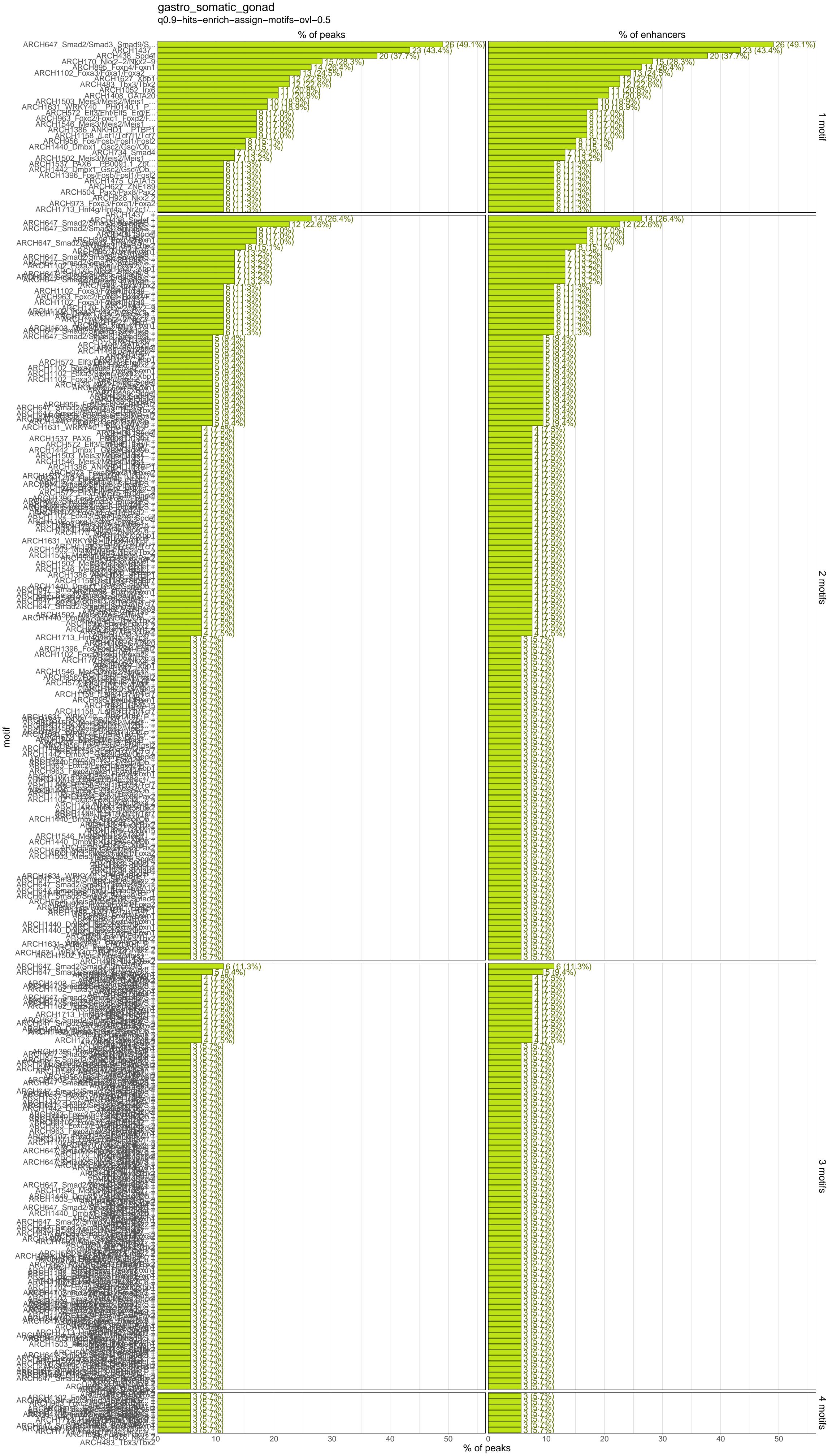
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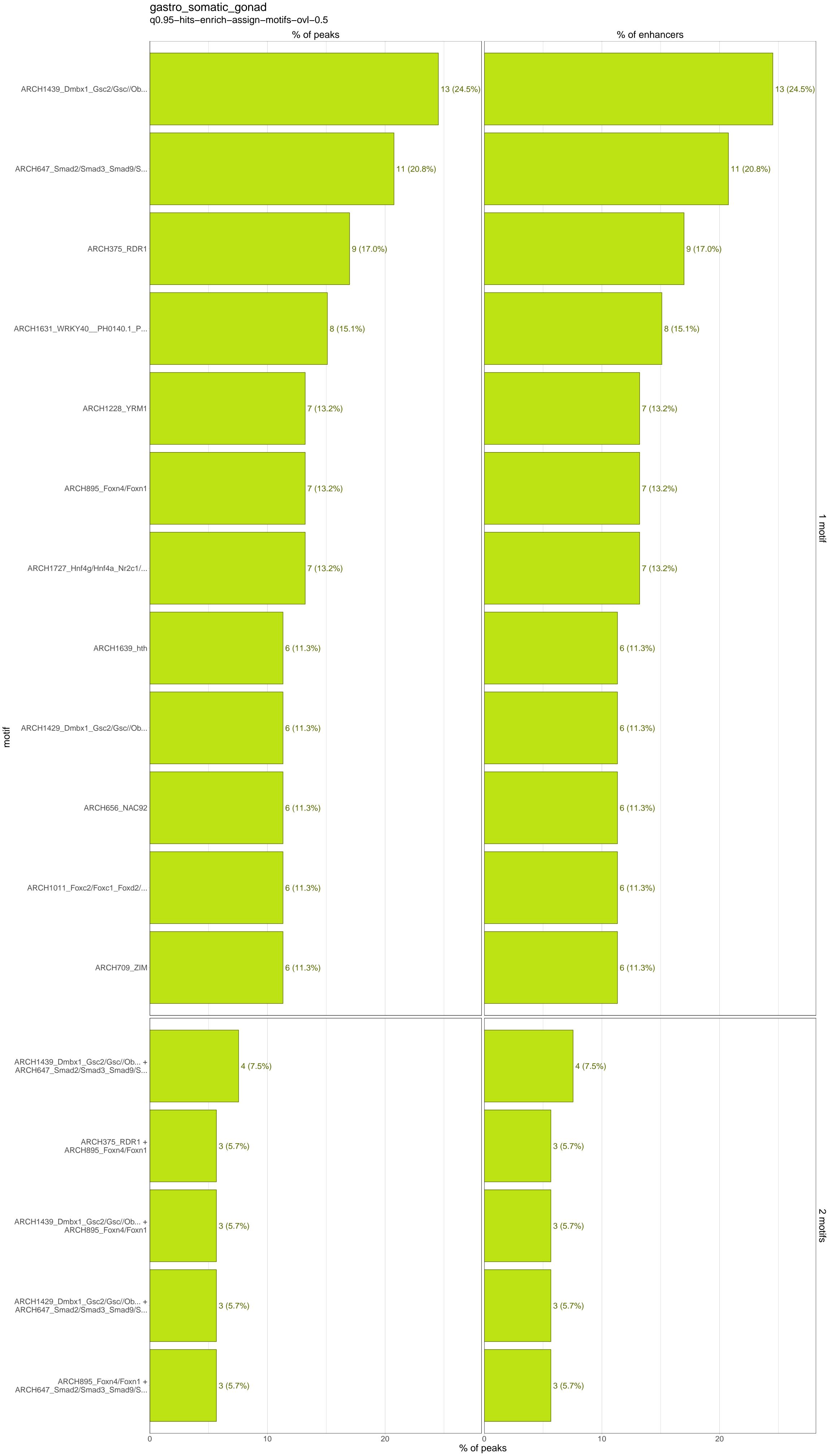


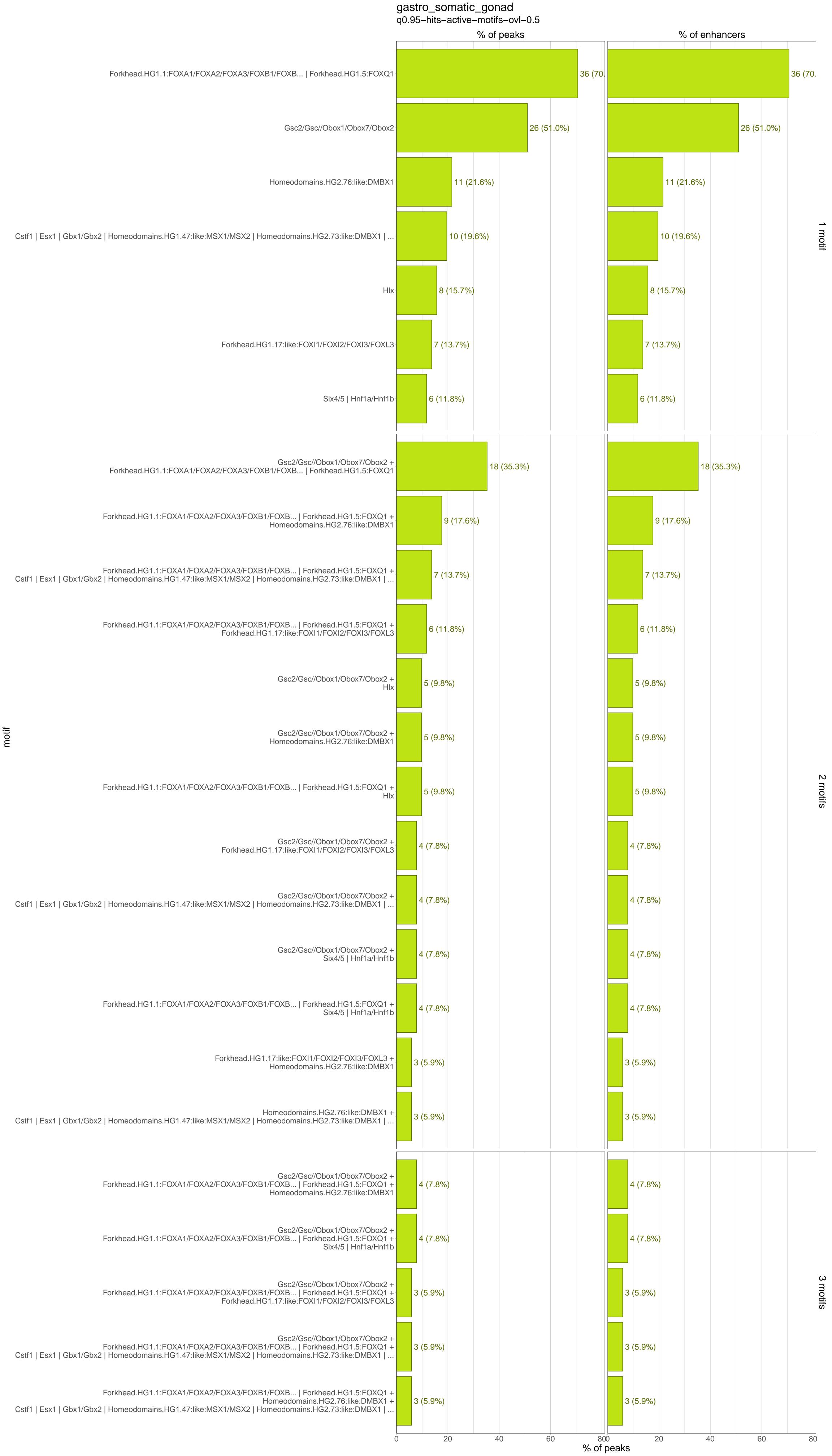
gastro_parietal_muscle q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 624 (6 624 (6 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 370 (41.1%) 370 (44.5%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... 254 (28.2%) 254 (25.1%) Six4/5 | Hnf1a/Hnf1b 234 (26.0%) 234 (26.0%) 179 (19.9%) 179 (16.3%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev 177 (19.0%) 177 (19.7%) Homeodomains.HG1.5:like:AC004080.3/AC012531... 170 (18.9%) 170 (16.5%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 161 (17.9%) 161 (19.0%) Nkx2-2/Nkx2-9 | Nkx3-2 Homeodomains.HG1.63:like:MEOX1/MEOX2 | Rhox10/Rhox7a/Rhox7b/Rhox3f/Rhox3h/Rhox3g/R... 154 (16.2%) 154 (17.1%) 1 motif 153 (17.0%) 153 (16.9%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 150 (16.7%) 150 (16.0%) 132 (14.7%) 132 (11.8%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... 126 (14.0%) Srebf2/Srebf1 126 (13.7%) 109 (12.1%) 109 (11.0%) Homeodomains.HG2.72:like:DMBX1 107 (11.9%) 107 (13.5%) Forkhead.HG1.17:like:FOXI1/FOXI2/FOXI3/FOXL3 104 (11.6%) 104 (10.8%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 96 (10.7%) 96 (10.3%) Meox2/Meox1 E430018J23Rik | Gfi1b/Gfi1 | Ovol3/Ovol1 | Prdm14 | zf-C2H2.HG1.62:ZBTB11 | zf-C2H2.HG1.8:ZNF18/Z... 93 (10.3%) 93 (9.5%) 91 (10.1%) 91 (11.2%) Tcf15/Scx Gli2/Gli3/Gli1 91 (10.1%) 91 (10.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 255 (28.3%) 255 (30.6%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 170 (18.9%) 170 (15.2%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 158 (17.6%) 158 (17.5%) Six4/5 | Hnf1a/Hnf1b Homeodomains.HG1.5:like:AC004080.3/AC012531... + 131 (14.6%) 131 (13.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 124 (13.8%) 124 (10.5%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 117 (13.0%) 117 (13.5%) Nkx2-2/Nkx2-9 | Nkx3-2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 110 (12.2%) 110 (11.2%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 109 (12.1%) 109 (11.6%) Homeodomains.HG1.63:like:MEOX1/MEOX2 | Rhox10/Rhox7a/Rhox7b/Rhox3f/Rhox3h/Rhox3g/R... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 102 (11.3%) 102 (9.9%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + 97 (10.8%) 97 (10.5%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 89 (9.9%) 89 (7.4%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 88 (9.8%) 88 (10.5%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 86 (9.6%) 86 (9.3%) Srebf2/Srebf1 Six4/5 | Hnf1a/Hnf1b + 83 (9.2%) 83 (10.6%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 78 (8.7%) 78 (9.3%) Forkhead.HG1.17:like:FOXI1/FOXI2/FOXI3/FOXL3 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 74 (8.2%) 74 (8.6%) Homeodomains.HG1.63:like:MEOX1/MEOX2 | Rhox10/Rhox7a/Rhox7b/Rhox3f/Rhox3h/Rhox3g/R... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 73 (8.1%) 73 (7.2%) Homeodomains.HG2.72:like:DMBX1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 70 (7.8%) 70 (7.2%) Meox2/Meox1 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 68 (7.6%) 68 (7.4%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Nkx2-2/Nkx2-9 | Nkx3-2 + 67 (7.4%) 67 (7.6%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO E430018J23Rik | Gfi1b/Gfi1 | Ovol3/Ovol1 | Prdm14 | zf-C2H2.HG1.62:ZBTB11 | zf-C2H2.HG1.8:ZNF18/Z... + 65 (7.2%) 65 (6.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 60 (6.7%) 60 (5.7%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 60 (6.7%) 60 (6.3%) Tcf15/Scx Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 60 (6.7%) 60 (6.8%) Gli2/Gli3/Gli1 Homeodomains.HG1.5:like:AC004080.3/AC012531... + 59 (6.6%) 59 (7.2%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Six4/5 | Hnf1a/Hnf1b + 59 (6.6%) 59 (4.9%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + 55 (6.1%) 55 (5.9%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 55 (6.1%) 55 (3.8%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 55 (6.1%) 55 (5.9%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 54 (6.0%) 54 (5.3%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 50 (5.6%) 50 (5.9%) Srebf2/Srebf1 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 48 (5.3%) 48 (4.9%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Six4/5 | Hnf1a/Hnf1b + 46 (5.1%) 46 (4.4%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Meox2/Meox1 + 46 (5.1%) 46 (5.1%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Homeodomains.HG1.5:like:AC004080.3/AC012531... + 45 (5.0%) 45 (5.3%) Six4/5 | Hnf1a/Hnf1b BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 45 (5.0%) 45 (4.4%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 44 (4.9%) 44 (4.9%) Gli2/Gli3/Gli1 Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 + 42 (4.7%) 42 (4.8%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 42 (4.7%) 42 (5.1%) Homeodomains.HG2.72:like:DMBX1 Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 41 (4.6%) 41 (3.6%) Six4/5 | Hnf1a/Hnf1b Six4/5 | Hnf1a/Hnf1b + 41 (4.6%) 41 (4.2%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 41 (4.6%) 41 (4.6%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 41 (4.6%) 41 (5.3%) Tcf15/Scx Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 57 (6.3%) 57 (6.7%) 54 (6.0%) 54 (7.0%) Six4/5 | Hnf1a/Hnf1b + Forkhead.HG1.1:FOXA1/FOXA2/POXA3/POXISP/FOXIBEOPPORRIPS HG154511FOXQTQ VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 49 (5.4%) 49 (6.1%) Homeodomains HG1-63: Hite: MEOXX MFOXA PROXA PRO motifs 47 (5.2%) 47 (5.5%) Nkx2-2/Nkx2-9 | Nkx3-2 + HOMESTEMATILISHED HOMESTERS HOLD HOMESTERS HOMESTER 42 (4.7%) 42 (5.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + VAx-EMX-Like | Homeodomains-HG1 54; / HQTQ Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 41 (4.6%) 41 (4.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXBP/FOXBP:0PP07Rinsad.G154511F0XQTQ 41 (4.6%) 41 (3.4%) Six4/5 | Hnf1a/Hnf1b + BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC. 20 60 40 40 20 60

% of peaks

gastro_parietal_muscle q0.95-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 654 (73 654 (7 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 409 (45.9%) 409 (49.2%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO 211 (23.7%) 211 (23.7%) HIX 176 (19.7%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 176 (17.5%) 146 (16.4%) 146 (13.5%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... 1 motif 123 (13.8%) 123 (12.5%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev 114 (12.8%) Homeodomains.HG1.5:like:AC004080.3/AC012531... 114 (11.3%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 108 (12.1%) 108 (10.6%) Nkx2-2/Nkx2-9 | Nkx3-2 107 (12.0%) 107 (12.5%) 99 (11.1%) 99 (11.2%) Homeodomains.HG1.63:like:MEOX1/MEOX2 | Rhox10/Rhox7a/Rhox7b/Rhox3f/Rhox3h/Rhox3g/R... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 298 (33.4%) 298 (35.2%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 146 (16.4%) 146 (15.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 112 (12.6%) 112 (11.0%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 99 (7.5%) 99 (11.1%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 98 (9.8%) 98 (11.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 95 (10.7%) 95 (9.4%) Homeodomains.HG1.5:like:AC004080.3/AC012531... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 84 (9.4%) 84 (8.1%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 80 (9.0%) 80 (9.0%) Nkx2-2/Nkx2-9 | Nkx3-2 79 (8.9%) 79 (9.2%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 76 (8.5%) 76 (8.1%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 74 (8.3%) 74 (8.5%) Homeodomains.HG1.63:like:MEOX1/MEOX2 | Rhox10/Rhox7a/Rhox7b/Rhox3f/Rhox3h/Rhox3g/R... BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 56 (6.3%) 56 (6.3%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Nkx2-2/Nkx2-9 | Nkx3-2 + 53 (6.3%) 53 (5.9%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 53 (5.9%) 53 (6.3%) Homeodomains.HG1.63:like:MEOX1/MEOX2 | Rhox10/Rhox7a/Rhox7b/Rhox3f/Rhox3h/Rhox3g/R... motifs Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 45 (5.0%) 45 (5.0%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 44 (4.9%) 44 (4.8%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 43 (4.8%) 43 (4.6%) Homeodomains.HG1.5:like:AC004080.3/AC012531... 42 (4.7%) 42 (4.2%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 30 (3.4%) 30 (3.1%) HIx 30 (3.4%) 30 (1.9%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 28 (1.7%) 28 (3.1%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... 28 (3.1%) 28 (3.1%) Homeodomains.HG1.5:like:AC004080.3/AC012531... Nkx2-2/Nkx2-9 | Nkx3-2 + 25 (2.8%) 25 (2.5%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 24 (2.7%) 24 (2.1%) Homeodomains.HG1.5:like:AC004080.3/AC012531.. 23 (2.6%) 23 (3.1%) Homeodomains.HG1.63:like:MEOX1/MEOX2 | Rhox10/Rhox7a/Rhox7b/Rhox3f/Rhox3h/Rhox3g/R... 22 (2.5%) 22 (3.1%) Nkx2-2/Nkx2-9 | Nkx3-2 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 22 (2.5%) 22 (1.7%) E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 22 (2.5%) 22 (1.3%) Homeodomains.HG1.5:like:AC004080.3/AC012531... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 52 (5.8%) 52 (6.2%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 46 (5.2%) 46 (4.8%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 40 (4.8%) Nkx2-2/Nkx2-9 | Nkx3-2 + 40 (4.5%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 38 (4.3%) 38 (3.7%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 37 (4.6%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 37 (4.1%) Homeodomains.HG1.63:like:MEOX1/MEOX2 | Rhox10/Rhox7a/Rhox7b/Rhox3f/Rhox3h/Rhox3g/R... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 36 (3.8%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 36 (4.0%) Homeodomains.HG1.5:like:AC004080.3/AC012531... 3 motifs Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 35 (3.9%) 35 (4.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 32 (3.6%) 32 (3.3%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + E2F_TDP.HG1.4:E2F1/E2F2/E2F3/E2F6 Elf3/Ehf/Elf5 | Erg/Fli1/Fev + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 28 (3.1%) 28 (2.9%) HIX Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 25 (2.8%) 25 (2.7%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 22 (2.5%) 22 (1.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 22 (2.5%) 22 (1.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + Homeodomains.HG1.5:like:AC004080.3/AC012531... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 22 (2.5%) 22 (2.5%) HIX +Homeodomains.HG1.5:like:AC004080.3/AC012531... 80 0 60 20 40 60 20 40 80 0 % of peaks

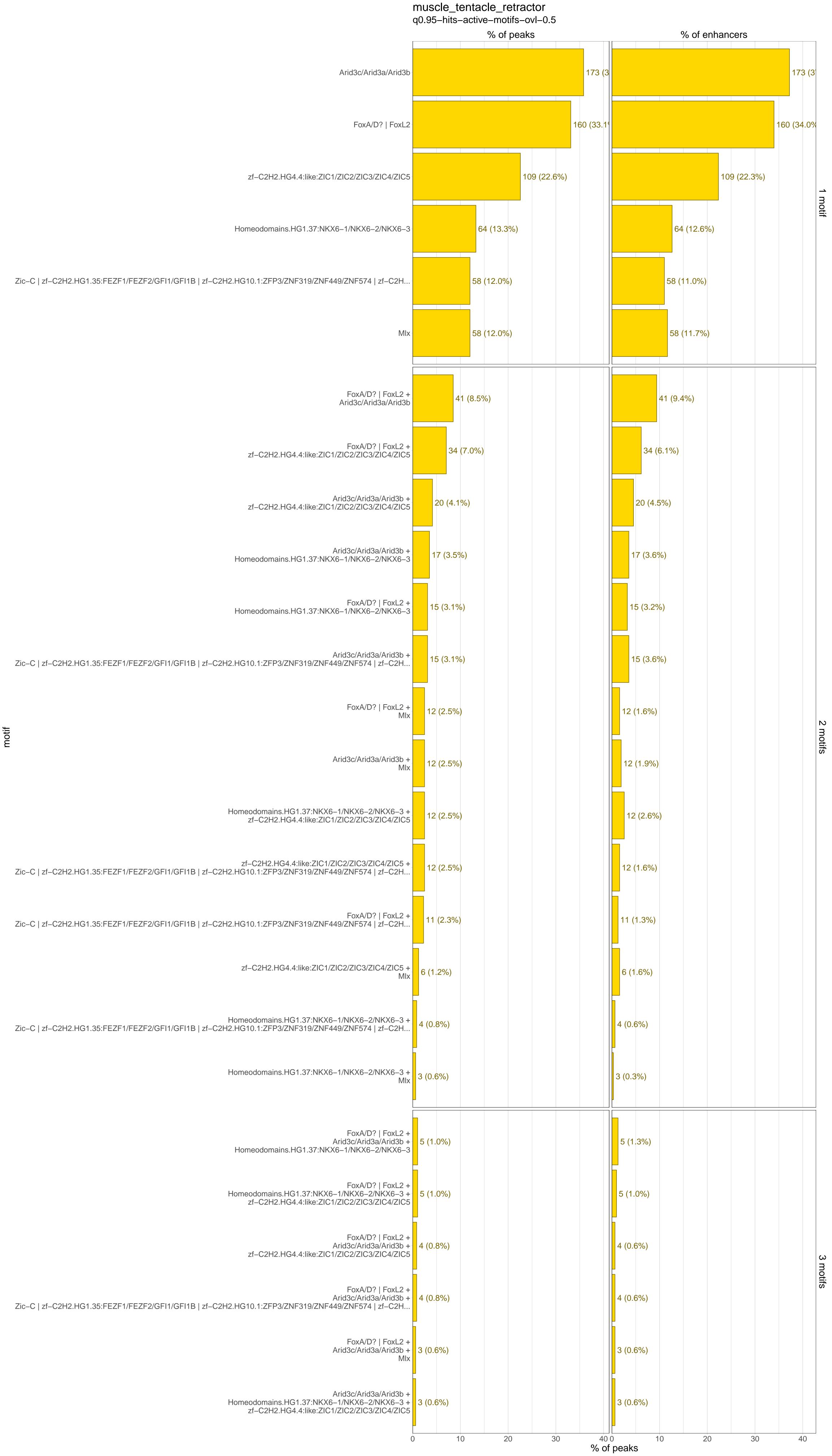




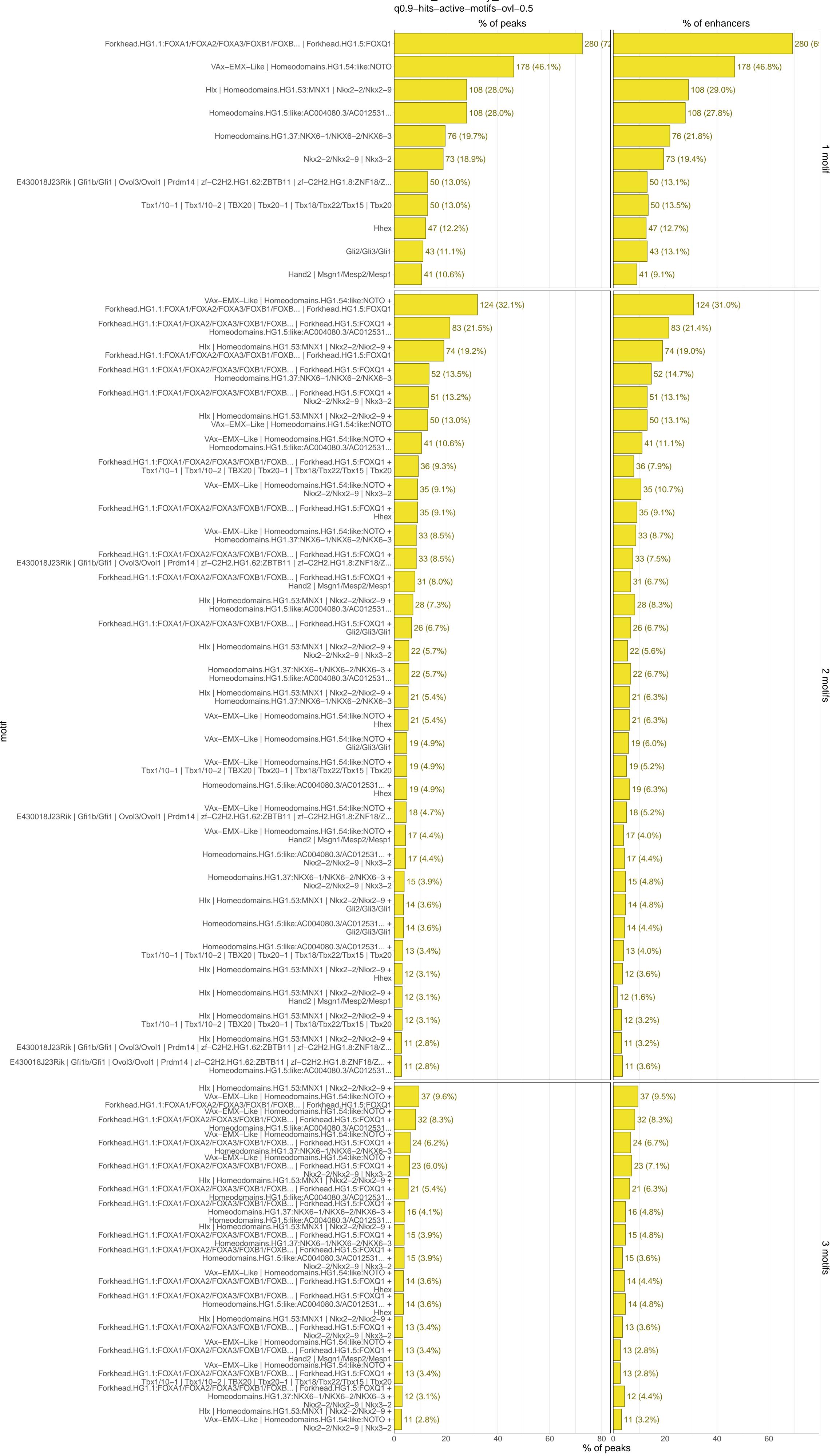


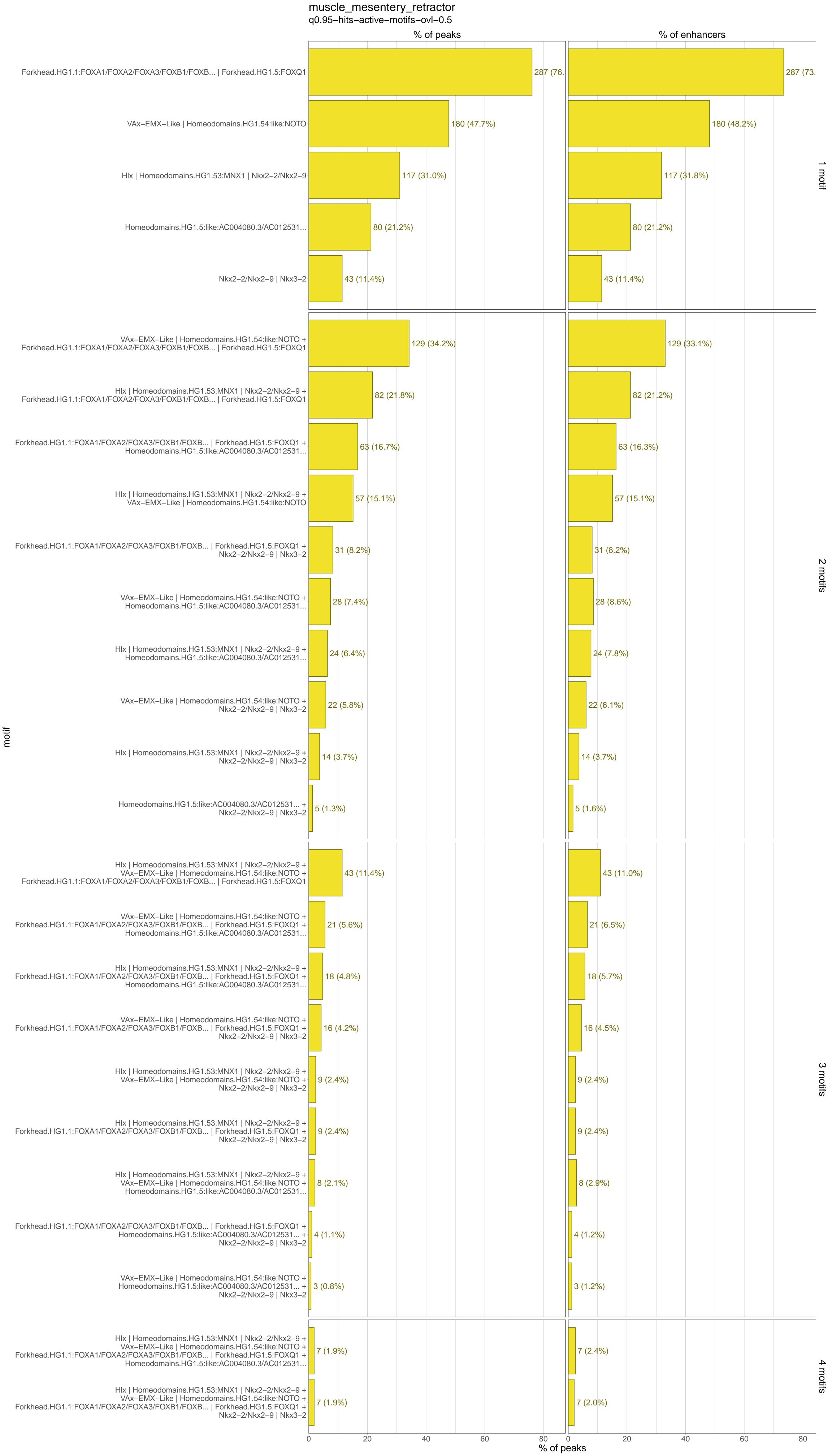
muscle_tentacle_retractor q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 173 (3 173 (3 Arid3c/Arid3a/Arid3b 171 (30.0 171 (3 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 158 (28.09 158 (28.7% FoxA/D? | FoxL2 139 (24.6%) 139 (22.6%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 motif 102 (18.1%) 102 (17.9%) Mlx 79 (14.0%) 79 (13.2%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... 76 (13.5%) 76 (12.7%) Tbpl2/Tbp 69 (13.8%) 69 (12.2%) zf-C2H2.HG4.3:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 FoxA/D? | FoxL2 + 43 (7.6%) 43 (7.7%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 FoxA/D? | FoxL2 + 40 (7.1%) 40 (7.7%) Arid3c/Arid3a/Arid3b Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + 40 (7.1%) 40 (7.2%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 Arid3c/Arid3a/Arid3b + 39 (6.9%) 39 (7.4%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 Arid3c/Arid3a/Arid3b + 36 (6.4%) 36 (5.8%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 FoxA/D? | FoxL2 + 32 (5.7%) 32 (5.5%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 Arid3c/Arid3a/Arid3b + 25 (4.4%) 25 (3.9%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + 21 (3.7%) 21 (3.6%) MIx + 21 (3.7%) 21 (4.1%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 FoxA/D? | FoxL2 + 20 (3.5%) 20 (3.3%) Mlx Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... + 20 (3.5%) 20 (3.0%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 FoxA/D? | FoxL2 + 19 (3.4%) 19 (3.0%) Tbpl2/Tbp Arid3c/Arid3a/Arid3b + 19 (3.4%) 19 (3.6%) 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 + 18 (3.2%) 18 (2.8%) motifs Tbpl2/Tbp Arid3c/Arid3a/Arid3b + 17 (3.0%) 17 (2.5%) Tbpl2/Tbp Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + 17 (3.0%) 17 (2.8%) Tbpl2/Tbp FoxA/D? | FoxL2 + 16 (2.8%) 16 (3.3%) zf-C2H2.HG4.3:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 Arid3c/Arid3a/Arid3b + 15 (2.7%) 15 (2.5%) zf-C2H2.HG4.3:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + 15 (2.7%) 15 (2.5%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... FoxA/D? | FoxL2 + 14 (2.5%) 14 (1.4%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... zf-C2H2.HG4.3:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 13 (2.3%) 13 (2.5%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + 12 (2.1%) 12 (2.5%) zf-C2H2.HG4.3:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 11 (1.9%) 11 (1.9%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... 10 (1.8%) 10 (1.7%) zf-C2H2.HG4.3:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 zf-C2H2.HG4.3:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 10 (1.8%) 10 (1.4%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... + 8 (1.4%) 8 (1.1%) Tbpl2/Tbp MIx + 7 (1.2%) 7 (0.8%) Tbpl2/Tbp Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... + 5 (0.8%) zf-C2H2.HG4.3:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 Arid3c/Arid3a/Arid3b + 13 (2.2%) 13 (2.3%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 F0XA/D? | F0XL2+ Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + 10 (1.7%) 10 (1.8%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 F0XA/D? | F0XL2+ 8 (1.7%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 7 (1.4%) Arid3c/Arid3a/Arid3b + zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 F0XA/D? | F0XL2+ 6 (1.1%) Arid3c/Arid3a/Arid3b + 6 (1.1%) FoxA/D? | FoxL2+ Arid3c/Arid3a/Arid3b + 6 (0.6%) 6 (1.1%) FoxA/D? Tbpl2/Tbp Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + 6 (1.1%) 6 (1.1%) FoxA/D? | FoxL2 + 5 (0.9%)

Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + 5 (0.9%) 5 (1.1%) 5 (0.8%) zf-C2H2.HG4.3:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 F0XA/D? | F0XL2+ zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 5 (0.9%) 5 (0.6%) Arid3c/Arid3a/Arid3b + Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + 5 (0.9%) 5 (1.1%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3+ 5 (0.8%) MIx + 5 (0.9%)Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... F0xA/D? | F0xL2+ 4 (0.6%) Arid3c/Arid3a/Arid3b + 4 (0.7%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H2.HG10.1:ZFP3/ZNF319/ 3 motifs Arid3c/Arid3a/Arid3b + 4 (0.8%) zf-C2H2.HG4.3:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 Arid3c/Arid3a/Arid3b+ Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + 4 (0.8%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H. Arid3c/Arid3b 4 (0.6%) 4 (0.7%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 Arid3c/Arid3a/Arid3b+ 4 (0.8%) 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:ZlC1/ZlC2/ZlC3/ZlC4/ZlC5 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3+ 4 (0.6%) 4 (0.7%) 4 (0.3%) 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 F0XA/D? | F0XL2+ Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + 3 (0.5%) 3 (0.3%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF319/ZNF449/ZNF574 | zf-C2H2.HG10.1:ZFP3/ZNF319/ Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + 3 (0.5%) 3 (0.8%) zf-C2H2.HG4.3:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 F0XA/D? I F0XL2 + 3 (0.8%) MIx + 3 (0.5%)zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 F0XA/D? | F0XL2+ Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... + 3 (0.5%) 3 (0.3%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 F0XA/D? | F0XL2 + 3 (0.3%) zf-C2H2.HG4.3:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 3 (0.5%) Arid3c/Arid3a/Arid3b + Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + 3 (0.5%) 3 (0.6%) zf-C2H2.HG4.3:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 Arid3c/Arid3a/Arid3b+ 3 (0.0%) MIx + 3 (0.5%)Arid3c/Arid3a/Arid3b + Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... + 3 (0.5%) 3 (0.0%) Arid3c/Arid3a/Arid3b + 3 (0.3%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 3 (0.5%) Tbpl2/Tbp FoxA/D? | FoxL2 + Arid3c/Arid3a/Arid3b + 3 (0.5%) 3 (0.6%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 + zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 10 20 30 10 20 30 % of peaks

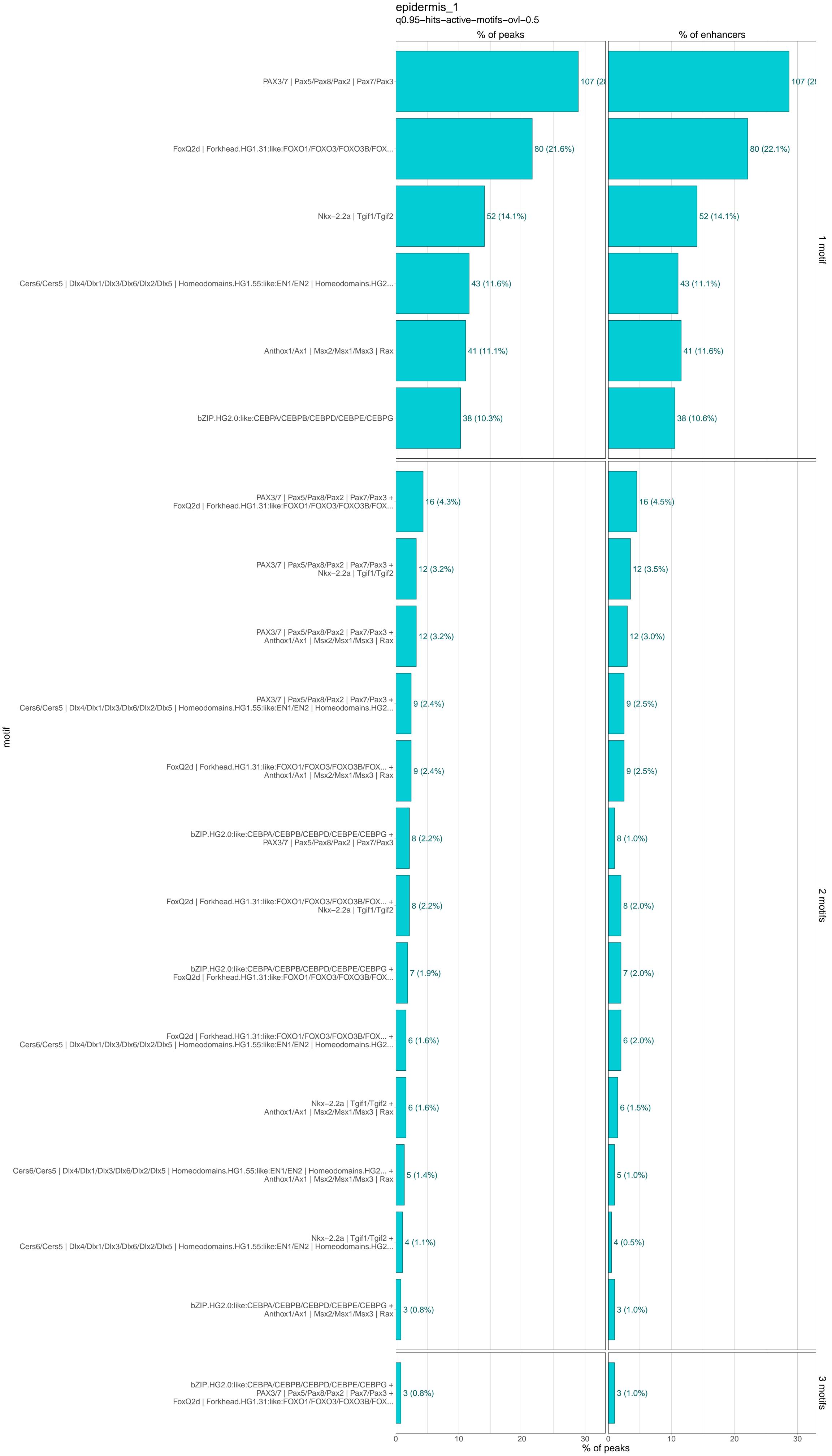


muscle_mesentery_retractor q0.9-hits-active-motifs-ovl-0.5





digestive_filaments_2 q0.95-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 100 (28.0% 100 (27.6% ARCH994_Foxa3/Foxa1/Foxa2_F... 98 (27.5%) 98 (26.4%) ARCH647_Smad2/Smad3_Smad9/S... 64 (17.2%) 64 (17.9%) ARCH160_PHA-4 62 (17.4%) 62 (20.2%) ARCH1554_MEIS2 61 (17.1%) 61 (20.2%) ARCH438_Spdef 50 (14.0%) 50 (11.7%) ARCH1546_Meis3/Meis2/Meis1_.. 1 motif 48 (13.4%) 48 (12.3%) ARCH1631_WRKY40__PH0140.1_P... 41 (11.5%) 41 (9.8%) ARCH700_TEAD3__TEAD1 41 (11.5%) 41 (12.3%) ARCH1078_SOX15 41 (9.8%) 41 (11.5%) ARCH1553_Meis3/Meis2/Meis1_.. 40 (10.4%) 40 (11.2%) ARCH1502_Meis3/Meis2/Meis1_... 37 (14.7%) ARCH895_Foxn4/Foxn1 37 (10.4%) 37 (11.7%) ARCH483_Tbx3/Tbx2 37 (10.4%) ARCH994_Foxa3/Foxa1/Foxa2_F... + 27 (7.6%) 27 (6.1%) ARCH647 Smad2/Smad3 Smad9/S... + 17 (7.4%) 17 (4.8%) ARCH16554-MELSZ 16 (4.5%) 16 (5.5%) ARCH647_Smad2/Smad3_Smad9/S... + 16 (4.9%) 16 (4.5%) ARCH994_F6XaS/F8Xa1/F9Xn4/Fexn1 15 (4.9%) 15 (4.2%) ARCH647_Smad2/Smad3_Smad9/S...+ 15 (4.2%) 15 (4.3%) ARCH647_Smad2/Smad3_Smad9/S...+ 15 (4.2%) 15 (4.3%) ARCH47_Smad2/Smad3_Smad9/s...+ 14 (3.9%) 14 (3.7%) ARCH15027Meis3/Meis2/Meis11+ 13 (3.6%) 13 (2.5%) ARCHOOL38HSP4ef 13 (3.6%) 13 (2.5%) ARCH647_Smad2/Smad3_Smad9/S...+ 13 (3.6%) 13 (3.7%) ARCH994_Foxa3/Foxa1/Foxa2_F...+ 12 (3.4%) 12 (3.7%) ARCH994_Foxa3/Foxa1/Foxa2_F... + 12 (4.9%) 12 (3.4%) ARCH16554-ME182 12 (4.3%) 12 (3.4%) ARCH647 Smad2/Smad3 Smad9/S...+ 12 (3.4%) 12 (3.7%) ARCH1546 Meis3/Meis2/Meis1... + 11 (3.1%) 11 (4.9%) ARCH647_Smad2/Smad3_Smad9/S...1 11 (3.1%) 11 (3.1%) ARCH700 ARCH1078 SQX15 10 (3.7%) 10 (2.8%) ARCH994_Foxa37Foxa17Foxa2_F...+ 10 (2.8%) 10 (3.1%) ARCH994_Foxa3/Foxa7/Foxa2_F...+ 10 (1.8%) 10 (2.8%) ARCH1546_Meis3/Meis2/Meis14·+ 10 (2.8%) 10 (3.1%) ARCH438_Spdef ARCH4553-Meis2/Meis1++ 10 (2.8%) 10 (2.5%) 9 (2.5%) 9 (2.5%) ARCH6474Smad2/Smad3/Smad9/S...+ 9 (3.7%) 9 (2.5%) ARCH994_WRK3490xa717F0X42_1F.P. + 9 (1.8%) 9 (2.5%) ARCH1553_Meis3/Meis2/Meis14·+ 9 (1.8%) 9 (2.5%) ARCH647 Smad2/Smad3 Smad9/S... + 9 (1.2%) 9 (2.5%) ARCH1502_Meis3/Meis2/Meis1_...+ 9 (1.8%) 9 (2.5%) ARCH438_Spdef 9 (2.5%) 9 (3.7%) ARCH1631_WRK-Meis34Meis24Meis1...+ 9 (1.8%) 9 (2.5%) ARCHARSH WRIS3 Mais 3 Mais 2 Meis 1 ... + 9 (2.5%) 9 (2.5%) ARCH15537 Meis 2/Meis 2/Meis 1+: + 8 (1.8%) 8 (2.2%) ARCH1631_WRKY40CH76014014-4.+ 8 (1.2%) 8 (2.2%) ARCH1502_Meis3/Meis2/Meis1₄.+ 8 (2.2%) 8 (0.6%) ARCH1631_WRKY40CHPH014014-P.+ 8 (2.2%) 8 (4.3%) ARCH895-559×n4/E18×201 8 (2.5%) 8 (2.2%) ARCH1546_Meis3/Meis2/Meis1... 2 8 (2.2%) 8 (2.5%) ARCH14378_\$0\center{5} 8 (1.8%) 8 (2.2%) ARCH895_Foxn4/Foxn1+ 8 (2.5%) 8 (2.2%) ARCH700RFEAB3_The3/Thx2 7 (2.0%) 7 (1.8%) ARCH700_TEAD3160-PHA-4 7 (2.0%) 7 (1.8%) ARCH25027Meis2/Meis2/Meis1++ 7 (3.1%) 7 (2.0%) ARCH994_F6XaS/F8Xa1/F8Xa2/Fexn1 7 (2.0%) 7 (1.8%) ARCH1502_Meis3/Meis2/Weis1_.... 7 (2.0%) 7 (2.5%) ARCHU833Tbx3/Tbx2 7 (3.7%) 7 (2.0%) ARGH895160xp4/F0xp1 6 (2.5%) 6 (1.7%) ARCH1502_Meis3/Meis2/Meis1 \$ 6 (1.2%) 6 (1.7%) ARCH16310WRKY40Wels2Meis1_...+ 6 (1.7%) 6 (2.5%) ARCH895-559×n4/E18×201 6 (2.5%) 6 (1.7%) ARRAH5948MEP\$215 6 (1.2%) 6 (1.7%) ARCH1631-WRKY49-ABH0142.1-P.-5 (1.4%) 5 (0.6%) ARRHA860TPX3ATbx2 5 (1.8%) 5 (1.4%) ARCH1502_Meis3/Meis2/Meis1_...+ 5 (1.8%) 5 (1.4%) ARCH1502_Meis3/Meis2/Meis1 ... + 5 (1.2%) 5 (1.4%) ARCH1546_Meis3/Meis2/Meis15.+ 5 (1.2%) 5 (1.4%) ARCH1631_WRK-Meis34Meis46.1-+ 5 (1.2%) 5 (1.4%) ARCH1546_Meis3/Meis2/Meis1_... + 5 (1.4%) 5 (1.2%) ARCH15537Meis3/Meis2/Meis1++ 4 (1.1%) 4 (0.0%) ARCH994_Foxa3/Foxa1/Foxa2 F... + 4 (0.6%) 4 (1.1%) 4 (1.1%) 4 (2.5%) ARCH1554_MESSZEF 4 (1.8%) 4 (1.1%) ARCH895-559×n4/58221 4 (1.2%) 4 (1.1%) 4 (1.1%) 4 (2.5%) ARCH1631_WRKY40H1078_\$0X15.+ 4 (1.8%) 4 (1.1%) ARCH163146 Meis3/Mels2/Meis1_... + 4 (1.1%) 4 (0.0%) ARCH700_FEHAB3_The3/Thx2 3 (0.6%) 3 (0.8%) ARCH700_ARCH3554EMBIS2 3 (0.8%) 3 (0.6%) 3 (0.8%) 3 (1.2%) 3 (0.6%) 3 (0.8%) 3 (0.8%) 3 (0.6%) ARCH1553_Meis3/Meis2/Meis15.+ 3 (1.8%) 3 (0.8%) 3 (0.6%) 3 (0.8%) ARCH1631_WRKY4BCH483146.43/Fbx2 3 (0.0%) 3 (0.8%) 3 (0.8%) 3 (1.2%) 3 (0.6%) 3 (0.8%) 6 (1.7%) 6 (2.5%) 5 (1.4%) 5 (1.2%) 5 (1.4%) 5 (1.8%) 4 (1.2%) 4 (1.1%) ARCH994_Foxa3/Foxa 4 (1.1%) 4 (0.6%) 4 (1.1%) 4 (1.2%) 4 (2.5%) 4 (1.1%) ARCH1546 Meist ARCH1553_Me ARCH647_Smad2/Sp ARCH6431_WRKY40 ARCH647_Smad2/Sp 4 (1.1%) 4 (0.6%) 4 (1.1%) 4 (0.0%) 4 (1.1%) 4 (1.2%) 4 (1.2%) 4 (1.1%) 3 (0.6%) 3 (0.8%) 3 (1.2%) 3 (0.8%) 3 (0.6%) 3 (0.8%) 3 (0.6%) 3 (0.8%) 3 (1.2%) 3 (1.8%) 3 (0.8%) 3 (1.2%) ARCH647_Smad2/S 3 (0.8%) 3 (0.6%) ARCH1502_Meis3 3 (0.8%) 3 (0.8%) 3 (0.6%) ARCH1546_Mei 3 (0.8%) 3 (1.2%) ARCH1546_Meis ARCH647_Smad2/Sm 3 (1.8%) 3 (0.8%) 3 (0.8%) 3 (0.6%) 3 (0.6%) 3 (0.8%) 3 (0.0%) 3 (0.8%) ARCH647_Smad2/Sm 3 (0.8%) 3 (0.6%) ARCH1631_WRKY48CH7483146.43.75bx2 3 (1.8%) 3 (0.8%) ARCH1553_Meis3/Meis2/Meis1_... 20 20 10 30 10 30 % of peaks



epidermis_2 q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 409 (2) 409 (2 PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 335 (22.4%) 335 (24.3 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 323 (21.6%) 323 (21.3%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... 256 (17.1%) 256 (17.0%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... 241 (16.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... 241 (15.6%) 234 (13.5%) Fos/Fosb/Fosl1/Fosl2 234 (15.7%) 1 motif 232 (15.5%) 232 (17.0%) zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... 227 (15.2%) 227 (14.9%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... 205 (14.5%) 205 (13.7%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... 200 (14.0%) 200 (13.4%) Zfp239//Gm6020/Zfp51/Zfp553 176 (11.8%) 176 (13.0%) Nrf1 167 (11.2%) 167 (10.4%) MIX 164 (11.0%) 164 (11.0%) Anthox6/Ax6 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 91 (6.1%) 91 (6.3%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 77 (5.2%) 77 (4.3%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 64 (4.3%) 64 (4.1%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... + 64 (4.3%) 64 (4.6%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 58 (3.9%) 58 (4.3%) 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 + 57 (3.8%) 57 (4.3%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 56 (3.7%) 56 (3.9%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 + 55 (3.7%) 55 (3.5%) Fos/Fosb/Fosl1/Fosl2 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 53 (3.5%) 53 (3.5%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Zfp239//Gm6020/Zfp51/Zfp553 + 52 (3.5%) 52 (2.8%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 51 (3.7%) 51 (3.4%) zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 51 (3.4%) 51 (3.2%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 49 (3.3%) 49 (3.0%) Fos/Fosb/Fosl1/Fosl2 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 49 (3.3%) 49 (3.3%) 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 + 48 (3.2%) 48 (3.4%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 47 (3.1%) 47 (3.2%) 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... + 47 (3.1%) 47 (3.7%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... + 47 (3.7%) 47 (3.1%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 45 (3.0%) 45 (3.2%) 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... + 45 (3.0%) 45 (3.4%) 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... + 44 (2.9%) 44 (2.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... 43 (2.9%) 43 (3.5%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX.. zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 2 motifs 42 (3.0%) 42 (2.8%) Zfp239//Gm6020/Zfp51/Zfp553 42 (2.8%) 42 (2.6%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Nrf1 + 42 (2.8%) 42 (3.4%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... + 42 (2.8%) 42 (2.8%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 41 (2.9%) 41 (2.7%) Anthox6/Ax6 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 39 (2.6%) 39 (2.3%) Fos/Fosb/Fosl1/Fosl2 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 39 (2.6%) 39 (2.7%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 + 39 (2.6%) 39 (2.8%) Anthox6/Ax6 zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... + 38 (2.5%) 38 (2.8%) Fos/Fosb/Fosl1/Fosl2 Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 38 (2.5%) 38 (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 + 37 (2.5%) 37 (2.5%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 37 (2.5%) 37 (2.9%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 37 (2.5%) 37 (1.9%) Fos/Fosb/Fosl1/Fosl2 Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... + 37 (2.5%) 37 (2.3%) Fos/Fosb/Fosl1/Fosl2 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 36 (2.4%) 36 (3.0%) Nrf1 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 36 (2.4%) 36 (2.2%) Zfp239//Gm6020/Zfp51/Zfp553 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 36 (2.4%) 36 (2.0%) Fos/Fosb/Fosl1/Fosl2 35 (2.3%) 35 (1.8%) Fos/Fosb/Fosl1/Fosl2 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 35 (2.3%) 35 (2.5%) Anthox6/Ax6 zf-C4 Nuclear receptors.HG1.13:NR4A1/NR4A2/... | zf-C4 Nuclear receptors.HG1.9:like:ESR1/ESR... + 33 (2.2%) 33 (2.8%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... Zfp239//Gm6020/Zfp51/Zfp553 + 33 (2.2%) 33 (2.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... Zfp239//Gm6020/Zfp51/Zfp553 + 33 (2.2%) 33 (2.2%) Fos/Fosb/Fosl1/Fosl2 zf-C4_Nuclear_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4_Nuclear_receptors.HG1.9:like:ESR1/ESR... + 32 (2.1%) 32 (2.6%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... 31 (2.1%) 31 (1.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... 20 10 30 0 10 20 % of peaks

epidermis_2 q0.95-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 260 (1 260 (1 PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 224 (16.5%) 224 (16.7% FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... 204 (15.1%) 204 (16.7% zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 motif 153 (12.3%) Zfp239//Gm6020/Zfp51/Zfp553 153 (11.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... 145 (10.7%) 145 (12.0%) 142 (9.4%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... 142 (10.5%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... 138 (10.2%) 138 (10.2%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 33 (2.4%) 33 (2.7%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 32 (2.4%) 32 (2.7%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 + 30 (2.2%) 30 (1.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... Zfp239//Gm6020/Zfp51/Zfp553 + 28 (2.1%) 28 (1.8%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 24 (2.2%) 24 (1.8%) 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 + 24 (1.8%) 24 (2.3%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 21 (1.6%) 21 (1.7%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 19 (1.4%) 19 (1.3%) Zfp239//Gm6020/Zfp51/Zfp553 Zfp239//Gm6020/Zfp51/Zfp553 + 19 (1.4%) 19 (1.7%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 motif Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 18 (1.3%) 18 (1.4%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... motifs Zfp239//Gm6020/Zfp51/Zfp553 + 17 (1.3%) 17 (1.6%) 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... + 15 (1.1%) 15 (0.6%) Zfp239//Gm6020/Zfp51/Zfp553 Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... + 15 (1.1%) 15 (1.0%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 15 (1.1%) 15 (1.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... + 13 (1.0%) 13 (1.0%) Zfp239//Gm6020/Zfp51/Zfp553 Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... + 13 (1.0%) 13 (0.8%) 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... + 12 (0.9%) 12 (1.0%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 11 (0.8%) 11 (0.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... + 11 (0.8%) 11 (0.9%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 10 (0.7%) 10 (0.6%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 5 (0.4%) 5 (0.0%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + Zfp239//Gm6020/Zfp51/Zfp553 + 5 (0.4%) 5 (0.3%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... + 3 (0.4%) 3 (0.2%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + motifs 3 (0.2%) 3 (0.3%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Zfp239//Gm6020/Zfp51/Zfp553 + PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 + 3 (0.2%) 3 (0.3%) 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 + PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 + 3 (0.2%) 3 (0.4%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... |. 10 10 15 0 5 15 5 20 % of peaks

precursors_PGC q0.95-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers 85 (25.9%) 85 (26.2%) ARCH449_POL009.1_DCE_S_II__... 74 (22.6%) 74 (28.1%) ARCH11_/E2f4_E2f6_E2f8/E2f7 64 (19.5%) 64 (16.9%) ARCH438_Spdef 57 (17.4%) 57 (16.9%) ARCH647_Smad2/Smad3_Smad9/S.. ARCH120_Nfya 49 (14.9%) 49 (16.9%) 47 (14.3%) 47 (14.4%) ARCH16_REM19__TIAR-1 motif 43 (13.1%) 43 (15.6%) ARCH432_/E2f4_E2f6 42 (12.8%) 42 (15.0%) ARCH367_/E2f4_E2f6_E2f8/E2f... 41 (12.5%) 41 (9.4%) ARCH419_Yy1 ARCH180_NFY 38 (15.6%) 38 (11.6%) 35 (10.6%) 35 (10.7%) ARCH1199_PABPC5__Hsf 33 (11.9%) ARCH1102_Foxa3/Foxa1/Foxa2_... 33 (10.1%) ARCH449_POL009.1_DCE_S_II__... + 19 (6.9%) 19 (5.8%) ARCH11 /E2f4 E2f6 E2f8/E2f7 ARCH449 POL009.1 DCE S II + 18 (5.5%) 18 (6.2%) ARCH438_Spdef ARCH647_Smad2/Smad3_Smad9/S... + 17 (3.1%) 17 (5.2%) ARCH438_Spdef ARCH449_POL009.1_DCE_S_II__... + 16 (6.2%) 16 (4.9%) ARCH647 Smad2/Smad3 Smad9/S... ARCH11_/E2f4_E2f6_E2f8/E2f7 + 15 (5.6%) 15 (4.6%) ARCH432_/E2f4_E2f6 ARCH449_POL009.1_DCE_S_II__... + 14 (3.1%) 14 (4.3%) 13 (4.0%) 13 (5.0%) ARCH449_POL009.1 13 (4.0%) 13 (3.1%) 13 (5.6%) 13 (4.0%) 13 (4.0%) 13 (4.4%) ARCH438_Spdef ARCH11_/E2f4_E2f6_E2f8/E2f7 + 13 (4.0%) 13 (5.0%) ARCH449_POL009.1_DCE_S_II__... + 12 (3.8%) 12 (3.7%) ARCH1199_PABPC5_ ARCH449_POL009.1_DCE_S_II 12 (5.6%) 12 (3.7%) ARCH432 /E2f4 E2f6 ARCH120_Nfya + 11 (3.4%) 11 (4.4%) ARCH438_Spdef ARCH647_Smad2/Smad3_Smad9/S... + 10 (3.0%) 10 (5.0%) ARCH11_/E2f4_E2f6_E2f8/E2f7 ARCH367_/E2f4_E2f6_E2f8/E2f...+ 10 (3.0%) 10 (3.1%) ARCH438_Spdef ARCH11_/E2f4_E2f6_E2f8/E2f7 + 10 (3.0%) 10 (4.4%) ARCH16_REM19__TIAR-1 ARCH438_Spdef + 10 (3.0%) 10 (3.8%) ARCH432 /E2f4 E2f6 ARCH120 Nfya + 9 (1.9%) 9 (2.7%) ARCH11_/E2f4_E2f6_E2f8/E2f7 ARCH1199_PABPC5__Hsf + 9 (2.7%) 9 (1.9%) ARCH647_Smad2/Smad3_Smad9/S... + ARCH647_Smad2/Smad3_Smad9/S... + 9 (2.7%) 9 (1.9%) ARCH419 Yy1 ARCH647_Smad2/Smad3_Smad9/S... + 9 (2.7%) 9 (1.9%) ARCH432_/E2f4_E2f6 ARCH647_Smad2/Smad3_Smad9/S...+ 9 (2.5%) 9 (2.7%) ARCH16_REM19__TIAR-1 ARCH438_Spdef + 9 (2.7%) 9 (1.9%) ARCH419_Yy1 ARCH120_Nfya + 8 (2.4%) 8 (1.9%) 8 (3.1%) 8 (2.4%) 8 (2.4%) 8 (1.2%) ARCH1102 Foxa3/Foxa1/Foxa2 ... ARCH1199_PABPC5__Hsf + 8 (1.9%) 8 (2.4%) ARCH16_REM19__TIAR-1 ARCH647_Smad2/Smad3_Smad9/S... + 2 8 (2.4%) 8 (3.1%) ARCH367_/E2f4_E2f6_E2f8/E2f... ARCH180_NFY + 8 (2.4%) 8 (3.1%) ARCH11_/E2f4_E2f6_E2f8/E2f7 ARCH180_NFY + 7 (2.5%) 7 (2.1%) 7 (3.1%) 7 (2.1%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH438_Spdef + 7 (2.1%) 7 (1.2%) ARCH16_REM19__TIAR-1 ARCH432_/E2f4_E2f6 + 7 (2.5%) 7 (2.1%) ARCH16_REM19__TIAR-1 ARCH120_Nfya + 6 (1.8%) 6 (2.5%) ARCH647_Smad2/Smad3_Smad9/S... ARCH120_Nfya + 6 (1.2%) 6 (1.8%) ARCH1199_PABPUS_....
ARCH438_Spdef
ARCH647_Smad2/Smad3_Smad9/S... + 6 (1.8%) 6 (1.9%) 6 (1.9%) 6 (1.8%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH367_/E2f4_E2f6_E2f8/E2f... + 6 (1.9%) 6 (1.8%) ARCH419_Yy1 ARCH367_/E2f4_E2f6_E2f8/E2f... + ARCH16_REM19__TIAR-1 ARCH11_/E2f4_E2f6_E2f8/E2f7 + 6 (1.8%) 6 (3.1%) 6 (2.5%) 6 (1.8%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH438_Spdef + 6 (1.8%) 6 (1.9%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH419_Yy1+ 6 (1.8%) 6 (1.2%) 5 (2.5%) 5 (1.5%) ARCH1102 Foxa3/Foxa1/Foxa2 ... ARCH1199_PABPC5__Hsf + 5 (1.5%) 5 (1.9%) ARCH432 /E2f4 E2f6 ARCH419_Yy1 + 5 (1.5%) 5 (0.0%) ARCH16_REM19__TIAR-1 ARCH1102_Foxa3/Foxa1/Foxa2_... + 5 (1.9%) 5 (1.5%) ARCH16_REM19__TIAR-1 ARCH120_Nfya + 4 (1.2%) 4 (0.6%) ARCH1199_PABPC5__Hsf ARCH120_Nfya + 4 (1.2%) 4 (1.9%) 4 (1.2%) 4 (1.2%) ARCH16_REM19__TIAR_1 ARCH1199_PABPC5__Hsf + 4 (1.2%) 4 (1.2%) ARCH1102_Foxa3/Foxa1/Foxa2 ... ARCH180_NFY + 4 (1.9%) 4 (1.2%) ARCH367_/E2f4_E2f6_E2f8/E2f... ARCH180_NFY + 4 (2.5%) 4 (1.2%) ARCH16_REM19_TIAR-1 ARCH120_Nfya + 3 (1.2%) 3 (0.9%) ARCH1199_PABPC5__Hsf + 3 (0.9%) 3 (1.2%) ARCH367_/E2f4_E2f6_E2f8/E2f... ARCH647_Smad2/Smad3_Smad9/S... + 3 (0.9%) 3 (1.2%) ARCH367_/E2f4_E2f6_E2f8/E2f... + 3 (0.9%) 3 (1.9%) ARCH1102_Foxa3/Foxa1/Foxa2_... ARCH419_Yy1+ 3 (0.9%) 3 (1.2%) ARCH1102_Foxa3/Foxa1/Foxa2_.. ARCH449_POL009.1_DCE_S_II ARCH449_POL009.1_DCE_S_II_...+

ARCH449_POL009.1_ARCH438I_Spdeff

ARCH411_/E2f4_E2f6_E2f8/E2f7+

ARCH449_POL009.1_ARCH438I_Spdeff

ARCH11_/E2f4_E2f6_E2f8/E2f7+

ARCH11_/E2f4_E2f6_E2f8/E2f7+

ARCH449_POL009.1_ARCH438I_Spdeff

ARCH449_POL009.1_ARCH438I_Spdeff

ARCH448_Spdeff+

ARCH448_Spdeff+

ARCH448_Spdeff+

ARCH448_Spdeff+

ARCH647_Smad2/Smad3_Smad9/Sn..+

ARCH647_Smad2/Smad3_Smad9/Sn..+

ARCH647_Smad2/Smad3_Smad9/Sn..+

ARCH647_Smad2/Smad3_Smad9/Sn..+

ARCH647_Smad2/Smad3_Smad9/Sn..+

ARCH647_Smad2/Smad3_Smad9/Spdeff+

ARCH647_Smad2/Smad3_Smad9/Spdeff+

ARCH647_Smad2/Smad2_Signegg9/Spdeff+

ARCH647_Smad2/Smad2_Signegg9/Spdeff+

ARCH11_/E2f4_E2f6_E2f8/E2f7+ 6 (1.8%) 6 (1.9%) 5 (1.9%) 5 (1.5%) 5 (1.2%) 5 (1.5%) 4 (1.2%) 4 (1.2%) 4 (1.2%) 4 (1.9%) 4 (1.2%) 4 (0.6%) 4 (1.2%) 4 (1.2%) ARCH647_Smad2/Smad2_Gmad9_Sode#

ARCH647_Smad2/Smad2_Gmad9_Sode#

ARCH647_Smad2/Smad2_Gmad9_Sode#

ARCH647_Smad2/Smad2_Gmad9_Sode#

ARCH647_Smad2/Smad2_Gmad9_Sode#

ARCH647_Smad2/Smad2_Gmad9_Sode#

ARCH647_Smad2/Smad2_Gmad9_Sode#

ARCH11_/E2f4_E2f6_E2f8/E2f7 +

ARCH11_/E2f4_E2f6_E2f8/E2f7 +

ARCH11_/E2f4_E2f6_E2f8/E2f7 +

ARCH11_/E2f4_E2f6_E2f8/E2f7 +

ARCH11_/E2f4_E2f6_E2f8/E2f7 +

ARCH11_99_PABPC5__Hsf +

ARCH449_RREPPS_1REM=9S_HJAR_+

ARCH449_RREPPS_1REM=9S_HJAR_+

ARCH449_RREPPS_1REM=9S_HJAR_+

ARCH449_RREPPS_1REM=9S_HJAR_+

ARCH449_RREPPS_1REM=9S_HJAR_+

ARCH432_/E2f4_E2f6 +

ARCH449_RREPPS_1REM=9S_HJAR_+

ARCH432_/E2f4_E2f6 +

ARCH449_RREPPS_1REM=9S_HJAR_+

ARCH432_/E2f4_E2f6 +

ARCH449_RREPPS_1REM=9S_HJAR_+

ARCH438_Spdef +

ARCH449_RREPPS_1REM=9S_HJAR_+

ARCH438_Spdef +

ARCH438_Spdef +

ARCH438_Spdef +

ARCH449_RREPPS_1REM=9S_HJAR_+

ARCH438_Spdef +

ARCH449_RREPPS_3_HJAR_-†

ARCH438_Spdef +

ARCH438_Spdef +

ARCH438_Spdef +

ARCH449_RREPPS_3_HJAR_-†

ARCH438_Spdef +

ARCH438_Spdef +

ARCH438_Spdef +

ARCH449_RREPPS_3_HJAR_-†

ARCH438_Spdef +

ARCH449_RREPPS_3_HJAR_-†

ARCH438_Spdef +

ARCH449_RREPPS_3_HJAR_-†

ARCH4449_RREPPS_3_HJAR_-†

ARCH4449_RREPPS_3_HJAR_-†

ARCH4449_RREPPS_3_HJAR_-†

ARCH4449_RREPPS_3_HJAR_-†

ARCH4449_RREPPS_3_HJAR_-†

ARCH4449_RREPPS_3_HJAR_-†

ARCH4449_RREPPS_3_RREPPS_3_RREPPS_3_RREPPS_3_RREPPS_3_RREPPS_3_RREPPS_3_RREPPS_3_RREPPS_3_RREPPS_3_RREPPS_3_RREPPS_3_RREPPS_3_RREPPS_3_RREPPS_3_RREPPS_3_R 4 (1.9%) 4 (1.2%) 4 (0.6%) 4 (1.2%) 4 (1.2%) 4 (1.9%) 4 (1.2%) 4 (1.9%) 3 (0.9%) 3 (0.0%) 3 (0.6%) 3 (0.9%) 3 (0.9%) 3 (1.2%) 3 (0.9%) 3 (0.6%) 3 (0.0%) 3 (0.9%) 3 (0.6%) 3 (0.9%) 3 (0.9%) 3 (0.6%) 3 (0.9%) 3 (1.9%) 3 (0.6%) 3 (0.9%) ARCH047_Smao2ARCH03257224/SE2f6

ARCH419 Yy1 +

ARCH647_Smad2ARCH03257224/SE2f6

ARCH419 Yy1 +

ARCH647_Smad2/Smad2MSmad5/SR_+

ARCH367R/G2f6_F2f6/F2f8/F2f7 +

ARCH11_/E2f4_E2f6_E2f8/E2f7 +

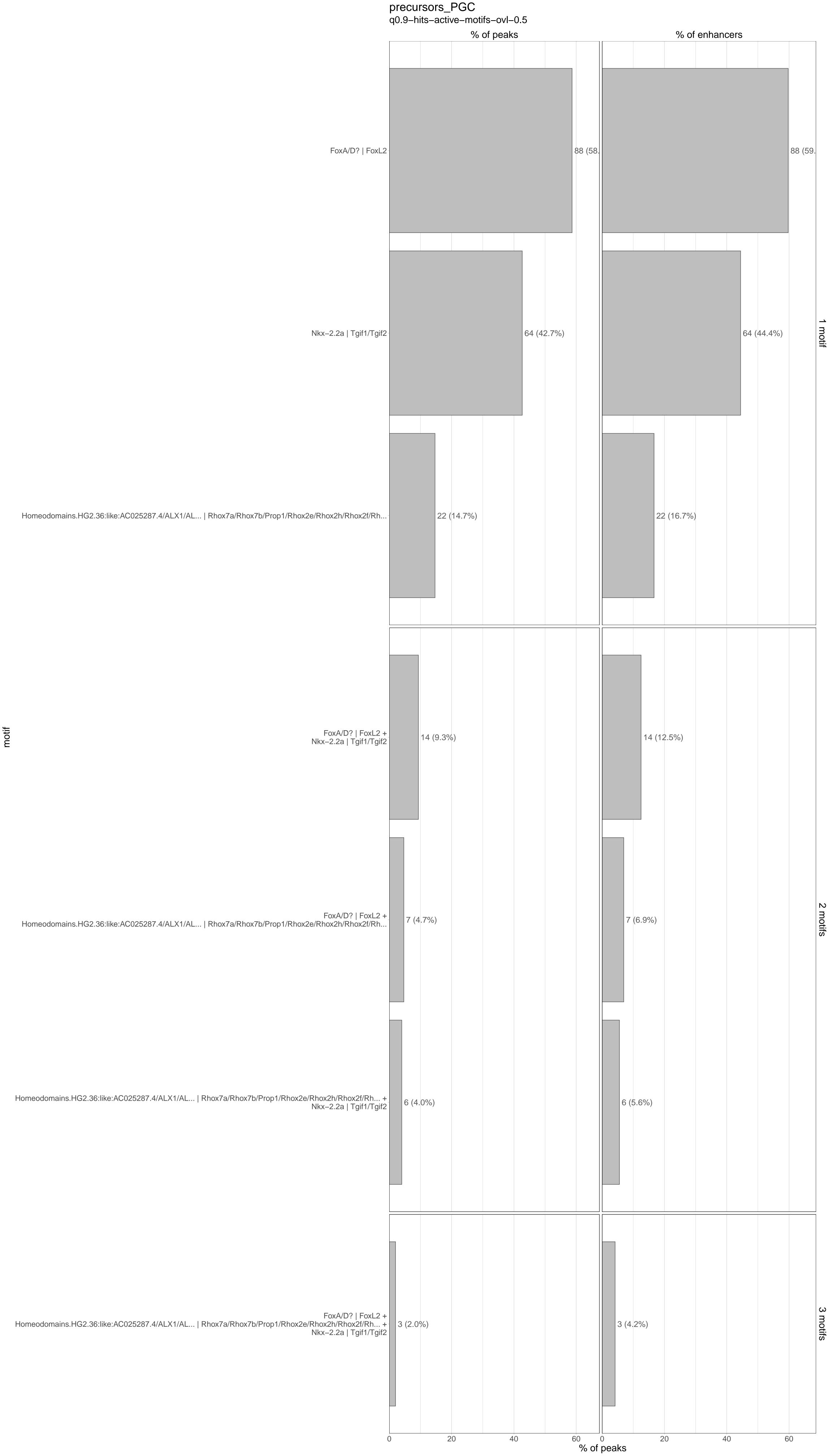
ARCH11_/E2f4_E2f6_E2f8/52f7y+

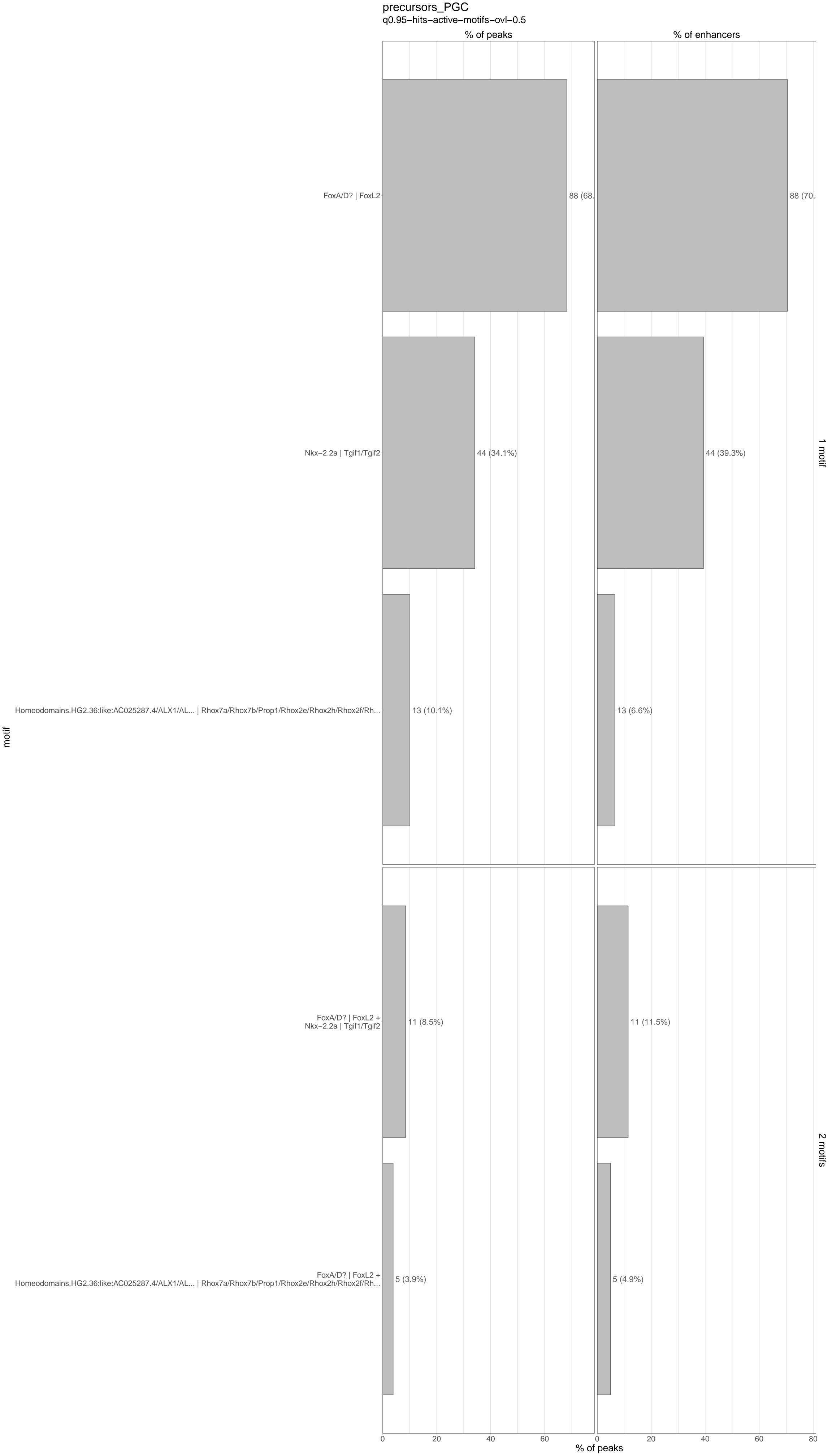
ARCH418_Spadef +

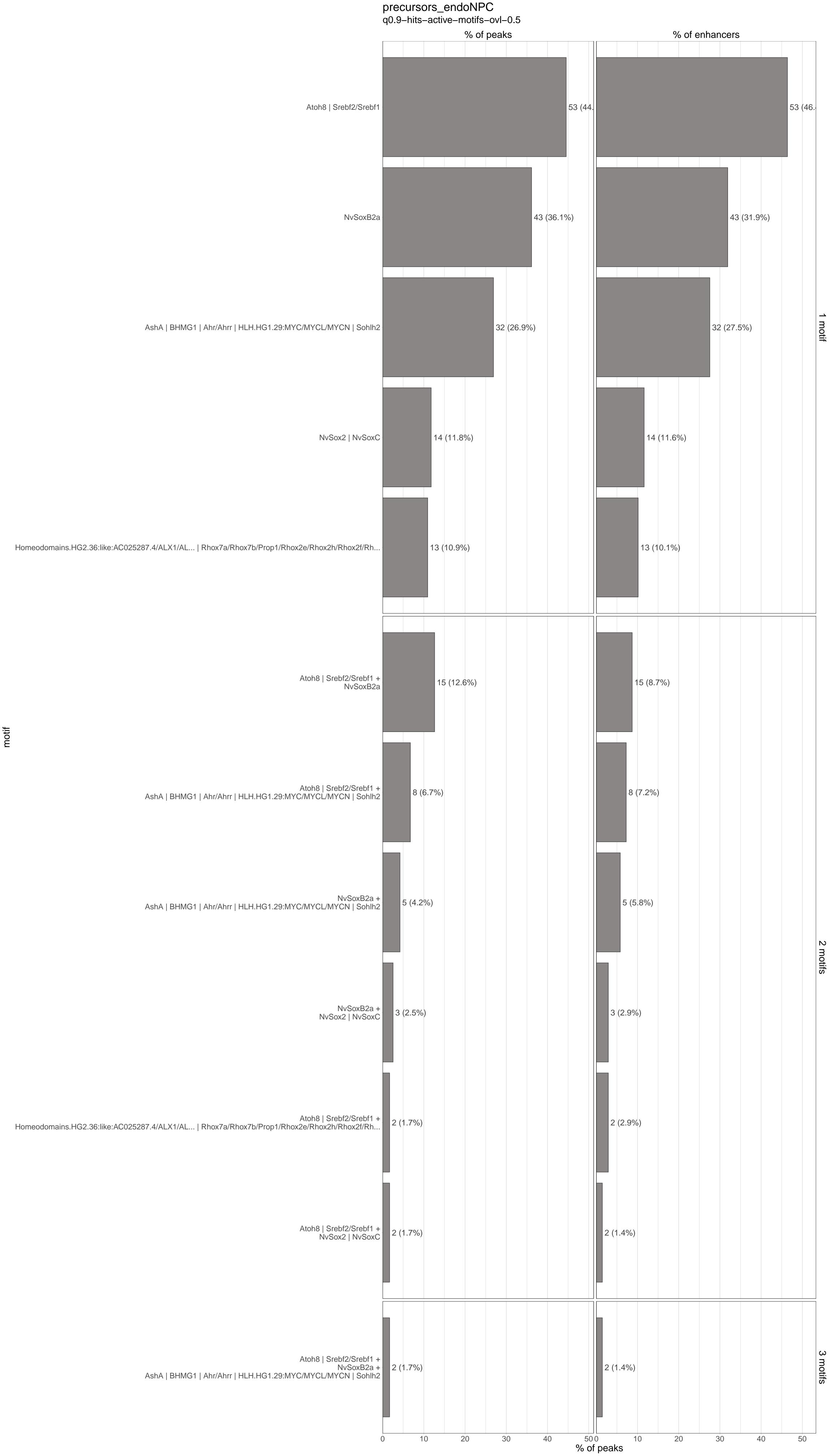
ARCH419_Yy1 +

ARCH419_Yy1 +

ARCH432_/F2f4_F2f6 3 (0.9%) 3 (0.0%) 3 (0.9%) 3 (0.0%) 3 (0.6%) 3 (0.9%) 3 (1.2%) 3 (0.9%) 3 (0.9%) 3 (1.2%) 3 (0.9%) 3 (1.2%) 3 (0.6%) 3 (0.9%) 20 10 20 10 30 % of peaks

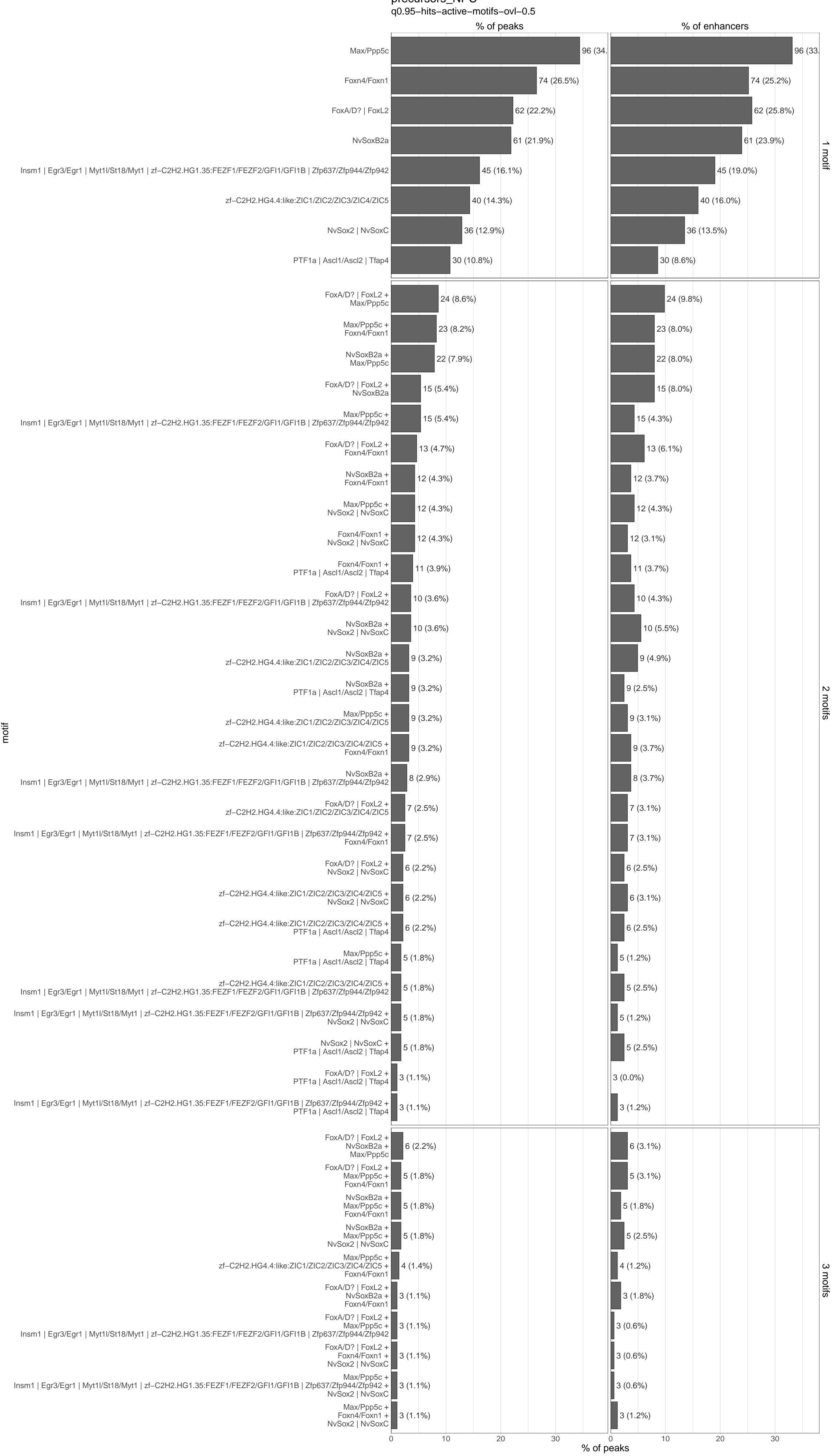


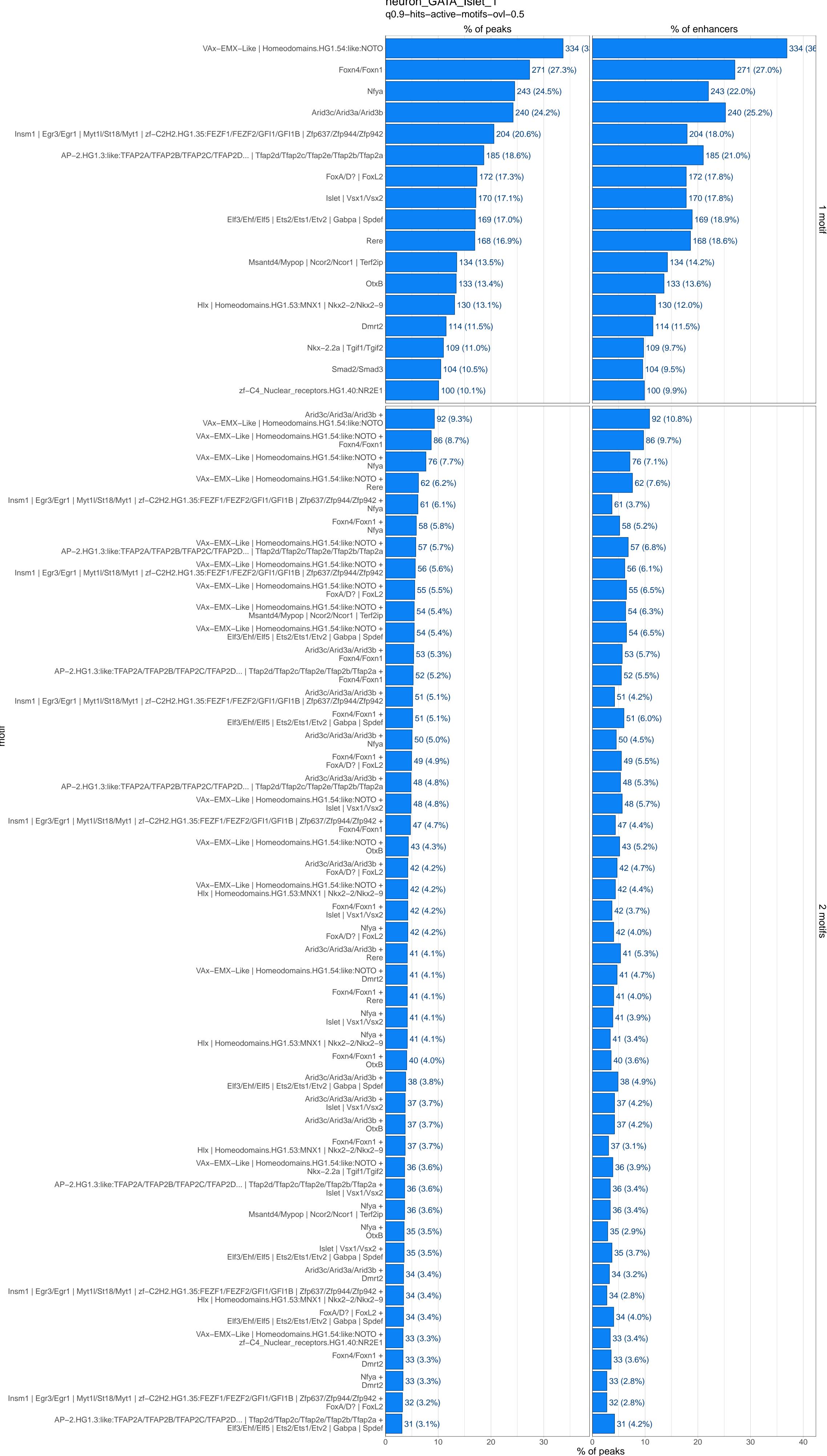


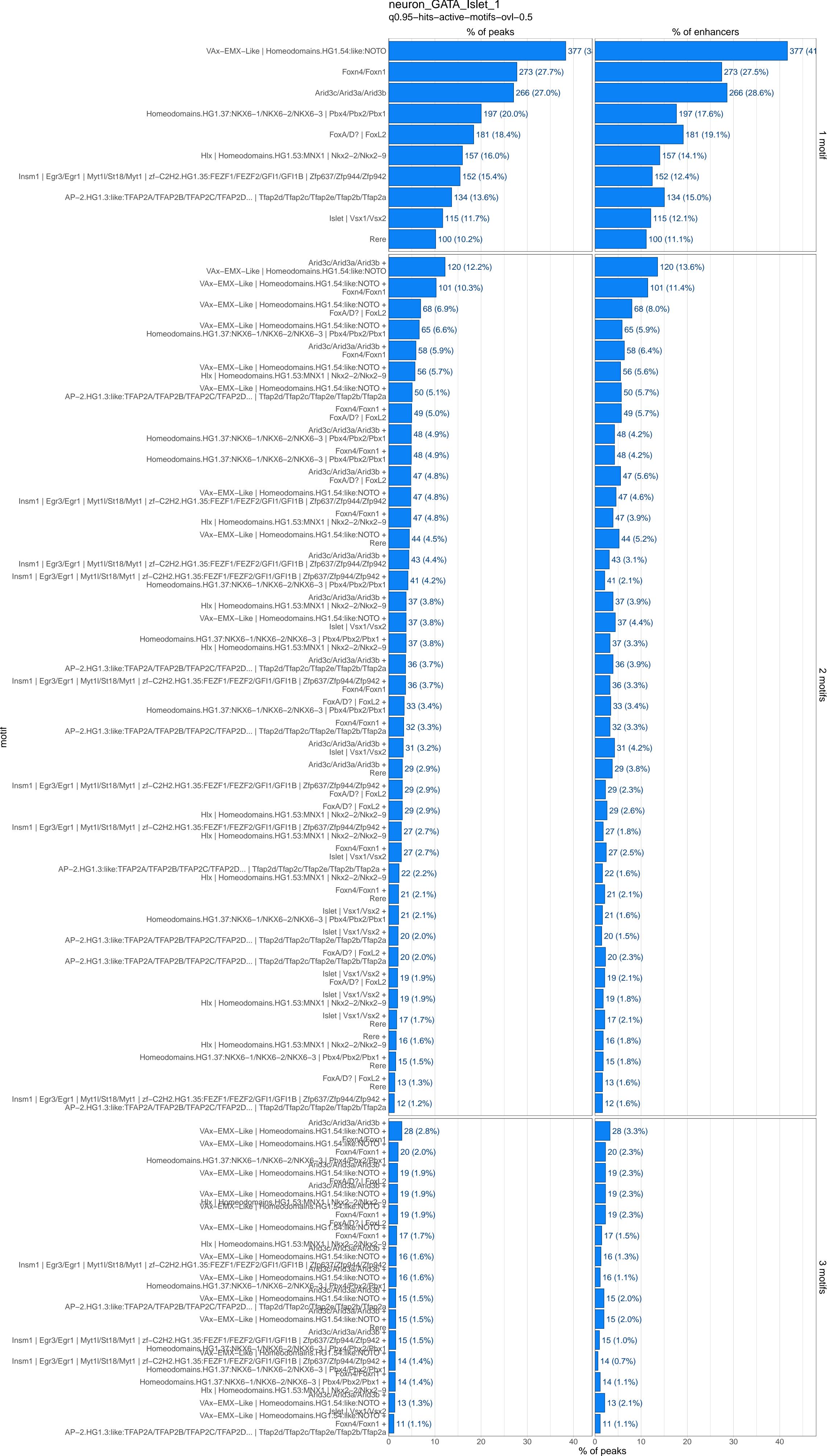


precursors_endoNPC q0.95-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 32 (39.0% AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 32 (38.0% Atoh8 | Srebf2/Srebf1 25 (30.5%) 25 (30.0%) 1 motif 20 (24.4%) 20 (22.0%) NvSox2 | NvSoxC 18 (22.0%) 18 (22.0%) NvSoxB2a Atoh8 | Srebf2/Srebf1 + AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 5 (4.0%) 5 (6.1%) Atoh8 | Srebf2/Srebf1 + NvSoxB2a 3 (3.7%) 3 (4.0%) Atoh8 | Srebf2/Srebf1 + NvSox2 | NvSoxC 3 (3.7%) 3 (2.0%) 2 motifs AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + NvSoxB2a 3 (3.7%) 3 (4.0%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + NvSox2 | NvSoxC 3 (3.7%) 3 (2.0%) NvSoxB2a + NvSox2 | NvSoxC 2 (2.4%) 2 (4.0%) 3 motifs Atoh8 | Srebf2/Srebf1 + AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + NvSox2 | NvSoxC 2 (2.4%) 2 (2.0%) 20 30 40 0 % of peaks 10 10 20 30

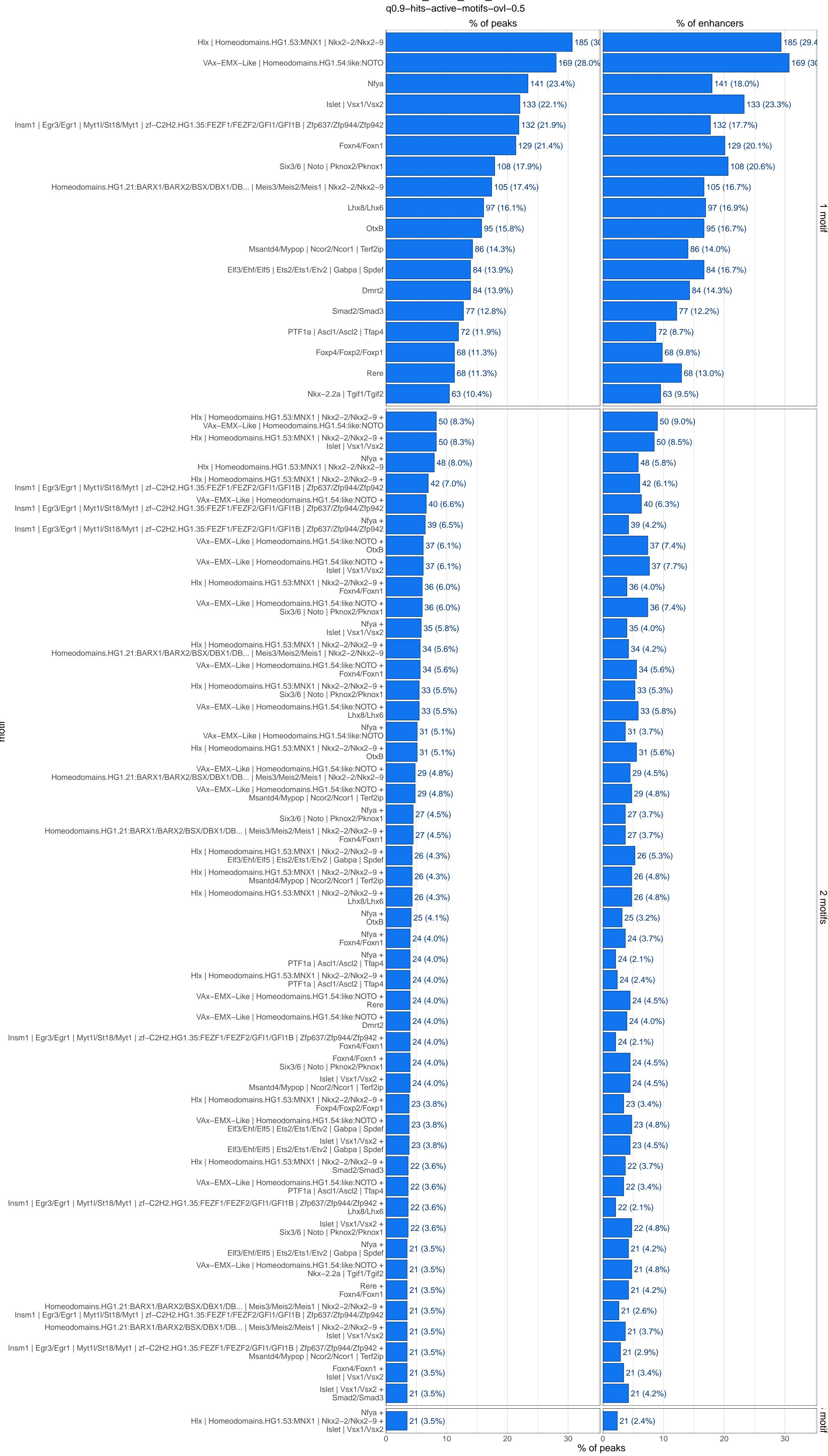
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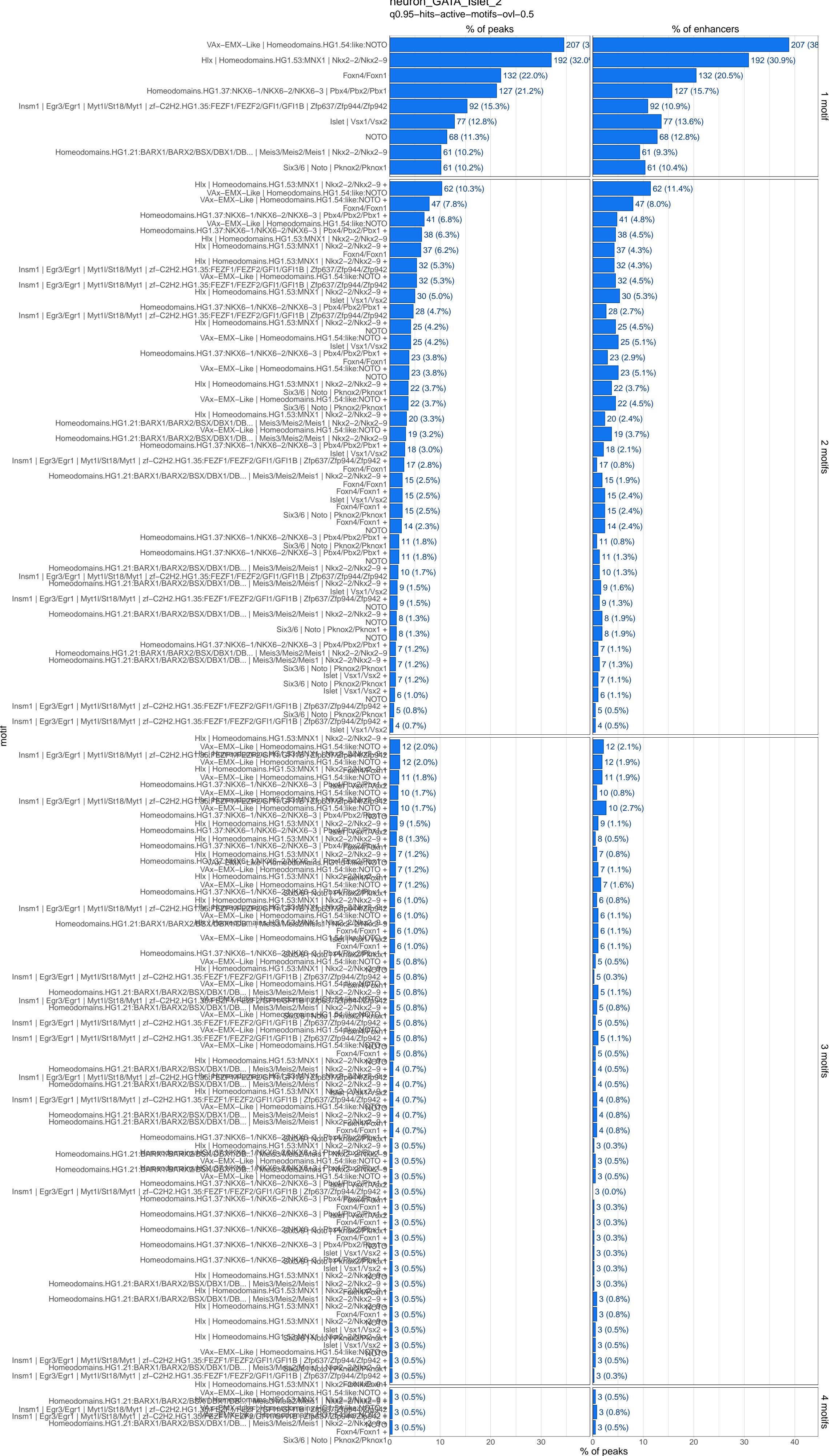


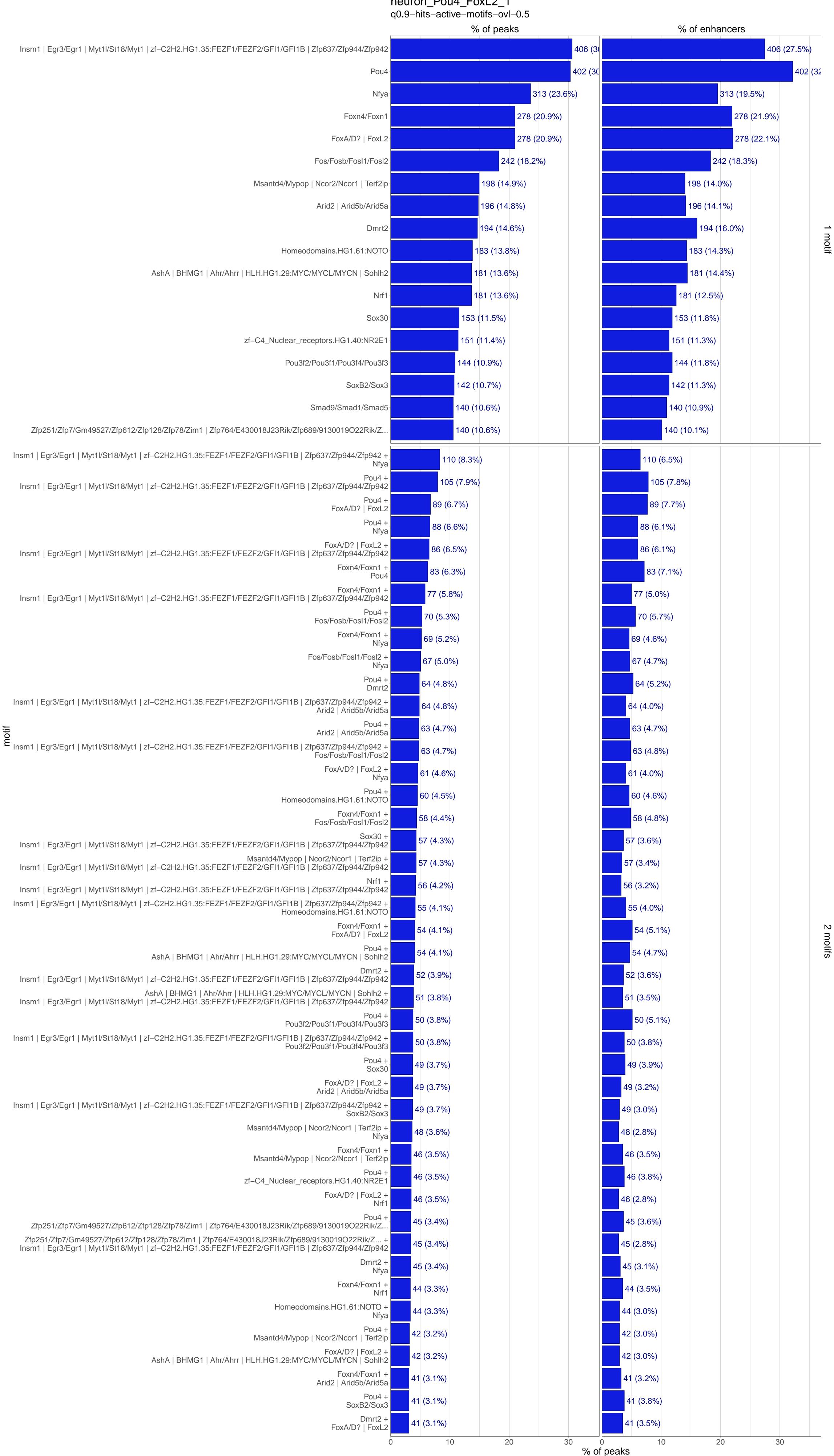


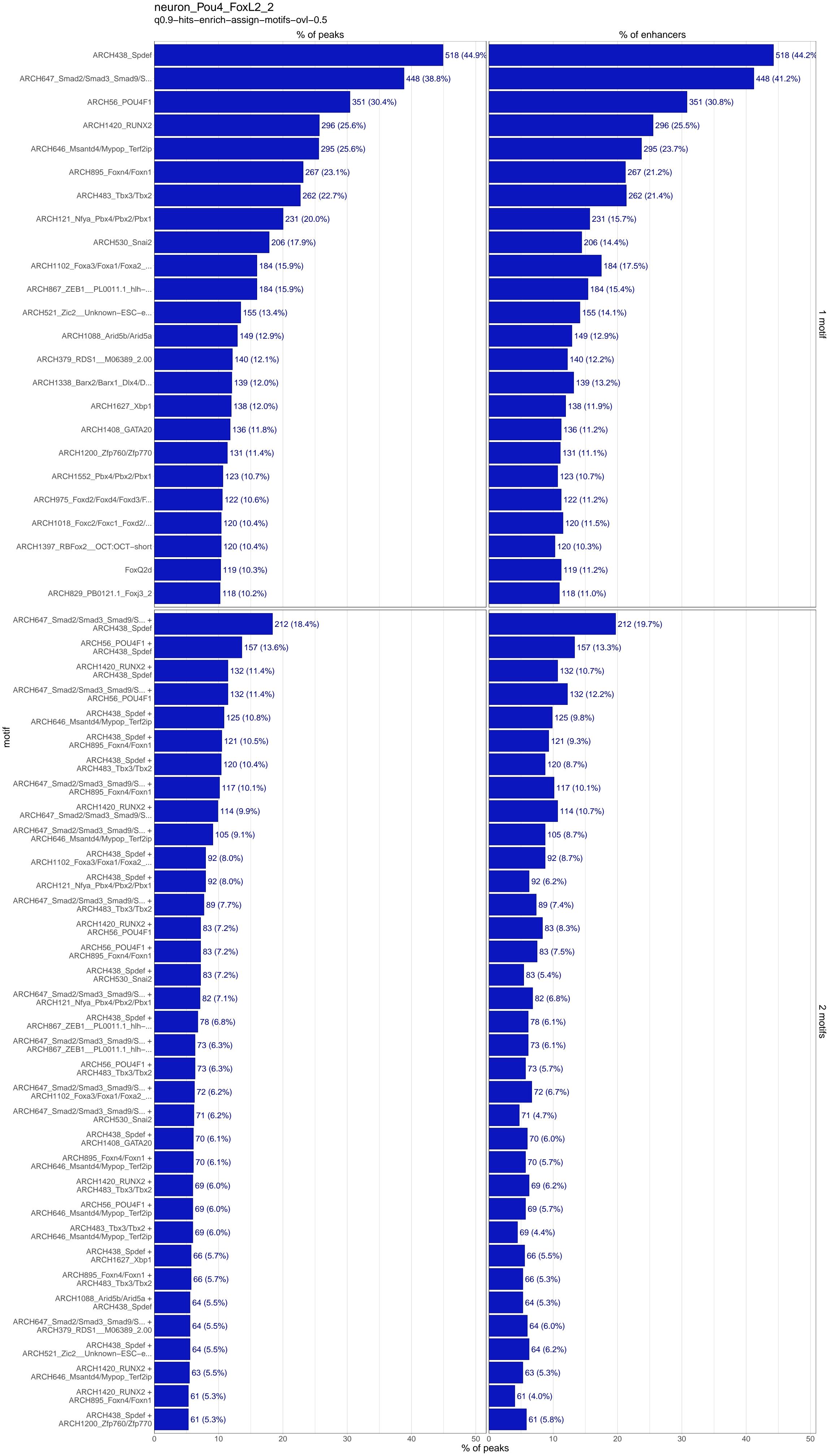


neuron_GATA_Islet_2 q0.9-hits-active-motifs-ovl-0.5

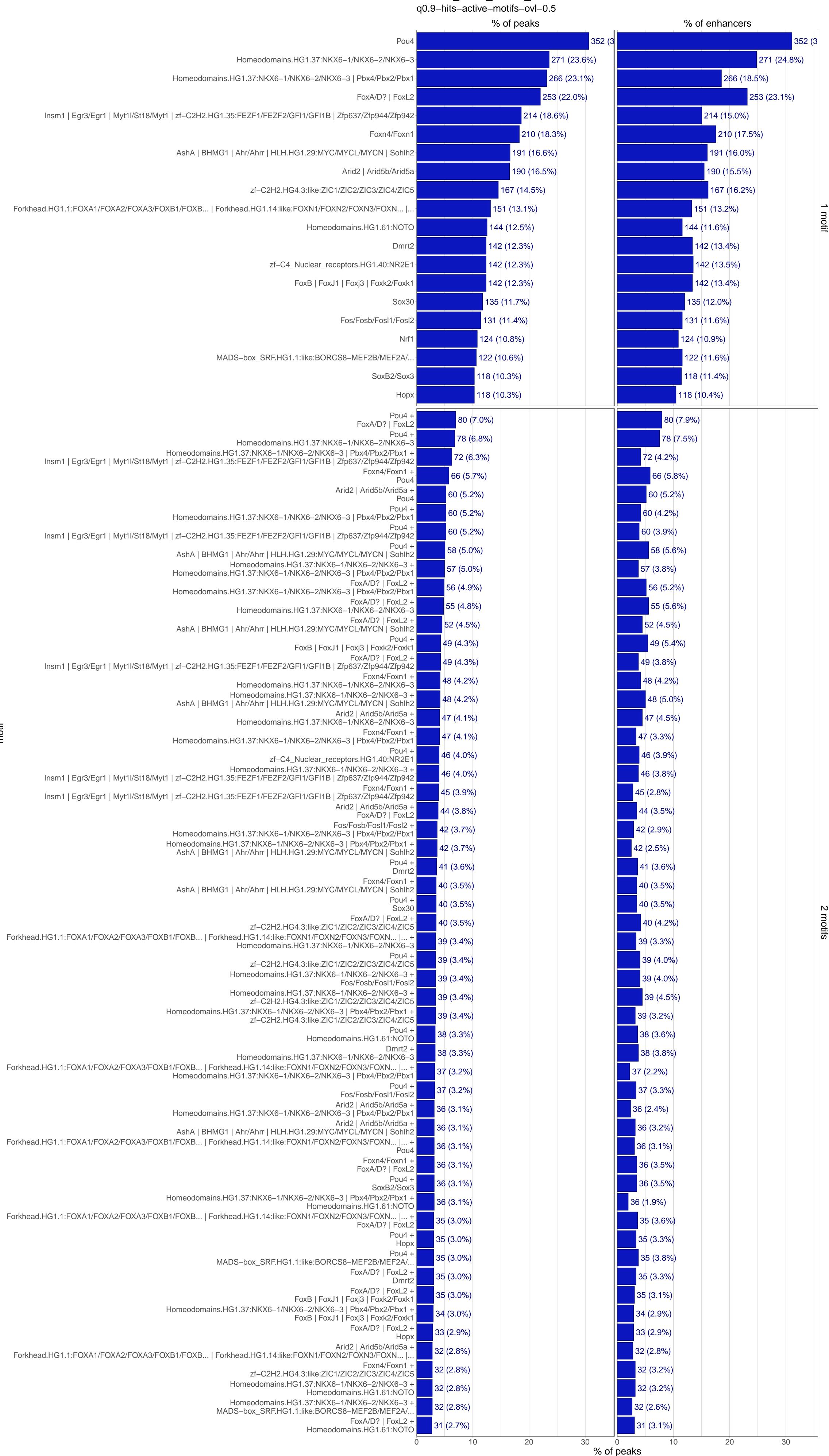




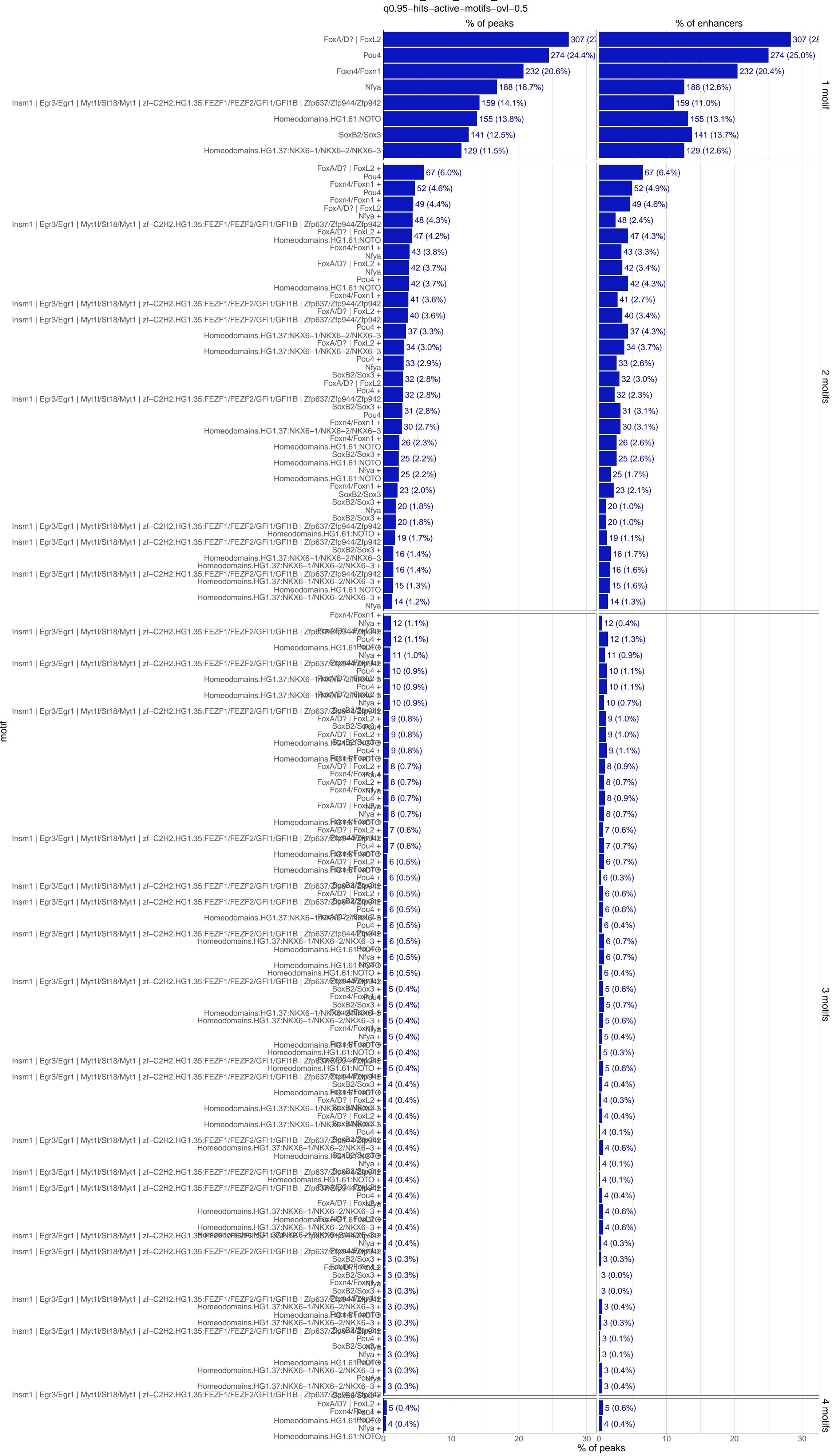




neuron_Pou4_FoxL2_2 q0.9-hits-active-motifs-ovl-0.5

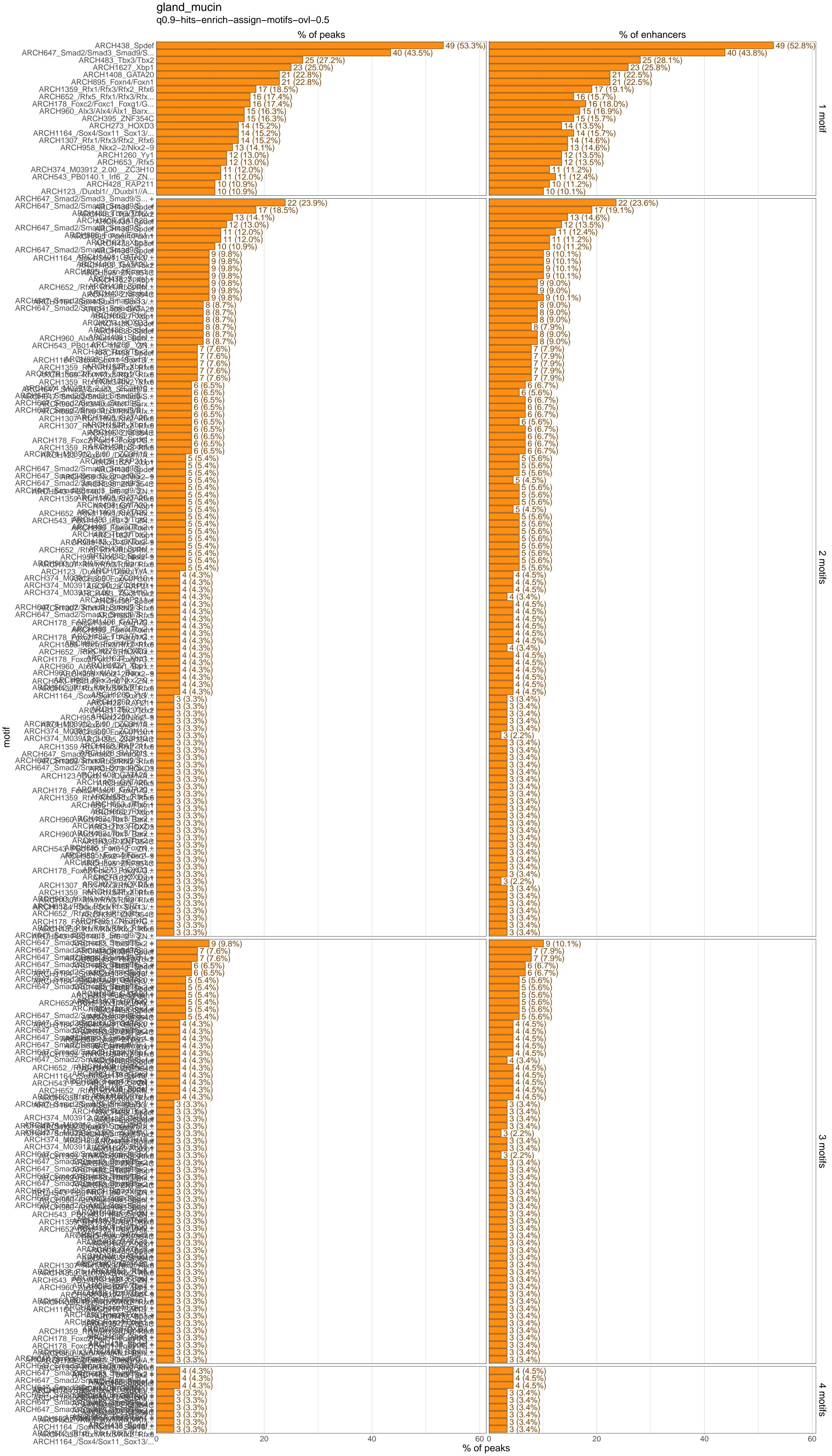


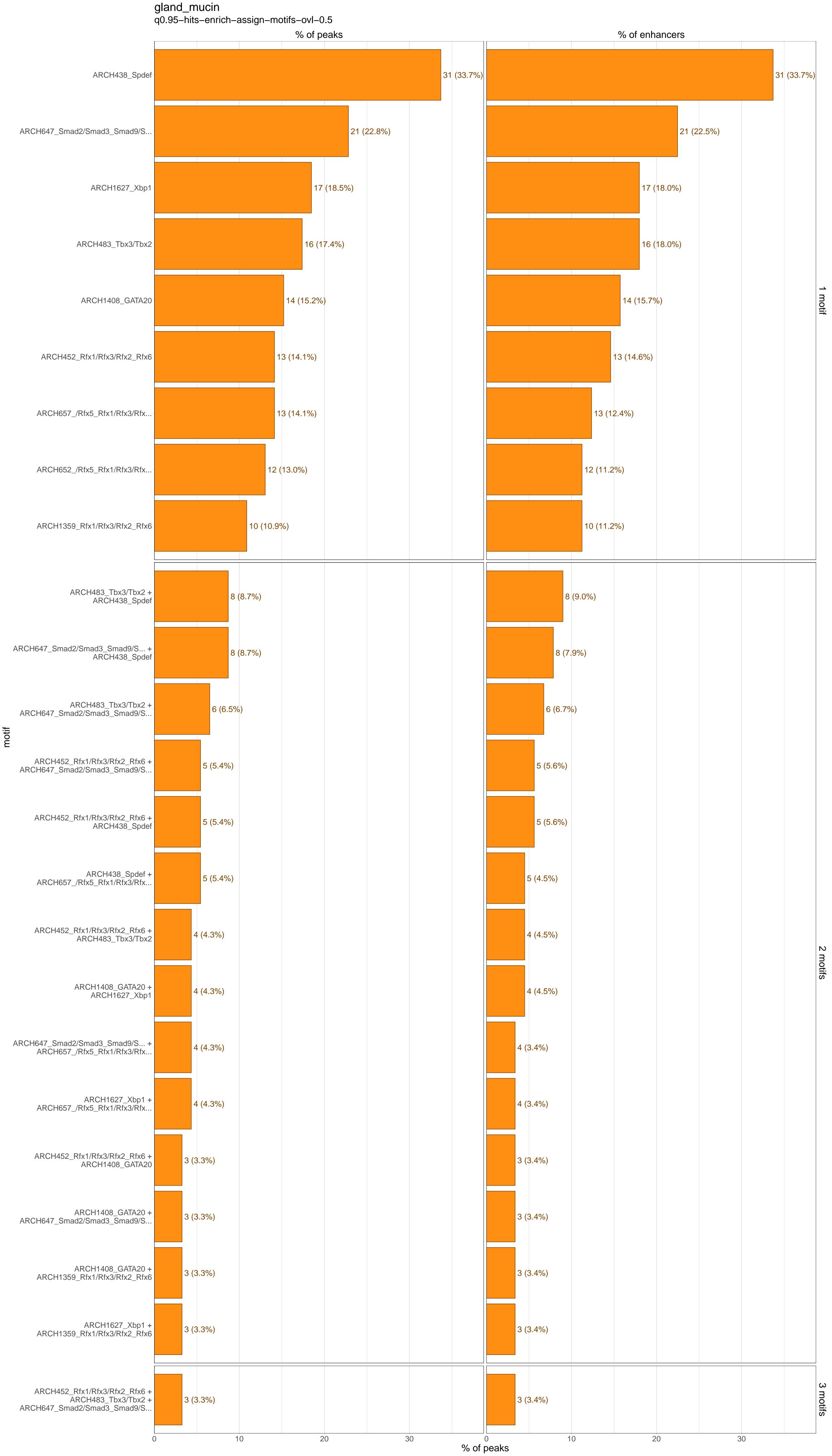
neuron_Pou4_FoxL2_2



gland q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 107 (32 107 (26.2%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 85 (25.9%) 85 (31 Lhx8/Lhx6 81 (28.0%) 81 (24.7%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 78 (17.3%) 78 (23.8%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 66 (20.1%) 66 (19.6%) Arid3c/Arid3a/Arid3b 60 (18.3%) 60 (17.3%) Foxn4/Foxn1 52 (12.5%) 52 (15.9%) Cic 52 (14.3%) RFX.HG1.6:like:RFX6 52 (15.9%) 46 (14.0%) 46 (13.1%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 45 (13.7%) 45 (13.7%) bZIP.HG2.6:like:DBP/HLF/TEF | Crebl2 45 (13.7%) 45 (13.1%) Msantd4/Mypop | Ncor2/Ncor1 | Terf2ip 1 motif 45 (14.9%) 45 (13.7%) OtxB Nkx-2.2a | Tgif1/Tgif2 44 (13.4%) 44 (11.9%) 43 (13.1%) 43 (12.5%) PTF1a | Ascl1/Ascl2 | Tfap4 42 (12.8%) Arid2 | Arid5b/Arid5a 42 (11.9%) 40 (12.2%) 40 (12.5%) Sox30 39 (11.9%) 39 (11.9%) Gsx1/Gsx2 | Lhx5/Lhx1 | Noto | Vax2/Vax1 39 (11.9%) 39 (14.9%) Pou3f2/Pou3f1/Pou3f4/Pou3f3 35 (8.3%) 35 (10.7%) NvSox2 | NvSoxC RFX1/2/3 | Rfx4/6/8 33 (10.1%) 33 (10.1%) CREB3 33 (10.1%) 33 (10.1%) 33 (11.9%) 33 (10.1%) Rfx4 33 (10.1%) 33 (10.1%) Msantd2 | Rcor1/Rcor2/Rcor3 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 32 (9.8%) 32 (9.5%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 31 (4.2%) 31 (9.5%) 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 + 26 (7.9%) 26 (7.7%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 22 (6.7%) 22 (6.5%) Arid3c/Arid3a/Arid3b Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 21 (6.4%) 21 (5.4%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Lhx8/Lhx6 + 19 (5.8%) 19 (4.8%) 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 + 18 (5.5%) 18 (4.2%) Gsx1/Gsx2 | Lhx5/Lhx1 | Noto | Vax2/Vax1 Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 18 (5.5%) 18 (4.8%) RFX.HG1.6:like:RFX6 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 17 (5.2%) 17 (3.6%) Lhx8/Lhx6 + 17 (7.1%) 17 (5.2%) Arid3c/Arid3a/Arid3b Lhx8/Lhx6 + 17 (6.5%) 17 (5.2%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Arid3c/Arid3a/Arid3b + 17 (4.2%) 17 (5.2%) Sox30 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 16 (4.9%) 16 (3.6%) RFX.HG1.6:like:RFX6 Arid3c/Arid3a/Arid3b + 16 (3.0%) 16 (4.9%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Arid3c/Arid3a/Arid3b + 16 (4.9%) 16 (6.0%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Foxn4/Foxn1 + 16 (4.9%) 16 (2.4%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Foxn4/Foxn1 + 16 (4.9%) 16 (4.2%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 15 (4.6%) 15 (4.2%) Msantd4/Mypop | Ncor2/Ncor1 | Terf2ip Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 15 (4.6%) 15 (4.2%) PTF1a | Ascl1/Ascl2 | Tfap4 Msantd4/Mypop | Ncor2/Ncor1 | Terf2ip + 15 (4.6%) 15 (6.5%) Lhx8/Lhx6 Lhx8/Lhx6 + 15 (4.6%) 15 (4.8%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 + 15 (4.6%) 15 (4.8%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 14 (3.0%) 14 (4.3%) Foxn4/Foxn1 Arid2 | Arid5b/Arid5a + 14 (4.3%) 14 (4.8%) Arid3c/Arid3a/Arid3b Cic + 14 (4.3%) 14 (4.2%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 13 (1.8%) 13 (4.0%) Arid2 | Arid5b/Arid5a Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 13 (4.0%) 13 (3.6%) Nkx-2.2a | Tgif1/Tgif2 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 13 (4.0%) 13 (4.2%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 13 (4.0%) 13 (3.6%) Pou3f2/Pou3f1/Pou3f4/Pou3f3 **N** bZIP.HG2.6:like:DBP/HLF/TEF | Crebl2 + 13 (4.0%) 13 (4.2%) motifs Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Lhx8/Lhx6 + 13 (4.0%) 13 (4.8%) Arid2 | Arid5b/Arid5a Lhx8/Lhx6 + 13 (4.0%) 13 (4.8%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 Lhx8/Lhx6 + 13 (4.0%) 13 (4.2%) Nkx-2.2a | Tgif1/Tgif2 Lhx8/Lhx6 + 13 (4.0%) 13 (4.8%) Foxn4/Foxn1 Arid3c/Arid3a/Arid3b + 13 (4.0%) 13 (4.2%) Foxn4/Foxn1 Arid3c/Arid3a/Arid3b + 13 (4.0%) 13 (3.6%) RFX.HG1.6:like:RFX6 Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 + 13 (4.0%) 13 (3.6%) RFX.HG1.6:like:RFX6 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 13 (4.0%) 13 (4.2%) NvSox2 | NvSoxC Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 13 (4.0%) 13 (4.8%) Pou3f2/Pou3f1/Pou3f4/Pou3f3 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 12 (3.0%) 12 (3.7%) bZIP.HG2.6:like:DBP/HLF/TEF | Crebl2 Gsx1/Gsx2 | Lhx5/Lhx1 | Noto | Vax2/Vax1 + 12 (3.7%) 12 (3.0%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Lhx8/Lhx6 + 12 (3.7%) 12 (4.8%) PTF1a | Ascl1/Ascl2 | Tfap4 Arid2 | Arid5b/Arid5a + 12 (3.7%) 12 (1.8%) Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Arid3c/Arid3a/Arid3b + 12 (3.0%) 12 (3.7%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 Arid3c/Arid3a/Arid3b + 12 (3.7%) 12 (3.0%) Msantd2 | Rcor1/Rcor2/Rcor3 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 12 (3.7%) 12 (3.6%) RFX.HG1.6:like:RFX6 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 11 (3.4%) 11 (3.6%) OtxB Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 11 (3.4%) 11 (3.0%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 11 (3.4%) 11 (2.4%) NvSox2 | NvSoxC bZIP.HG2.6:like:DBP/HLF/TEF | Crebl2 + 11 (3.4%) 11 (3.0%) Foxn4/Foxn1 Gsx1/Gsx2 | Lhx5/Lhx1 | Noto | Vax2/Vax1 + 11 (3.4%) 11 (2.4%) Arid3c/Arid3a/Arid3b Msantd4/Mypop | Ncor2/Ncor1 | Terf2ip + 11 (3.4%) 11 (1.8%) Foxn4/Foxn1 Lhx8/Lhx6 + 11 (3.4%) 11 (4.2%) Msantd2 | Rcor1/Rcor2/Rcor3 Lhx8/Lhx6 + 11 (3.4%) 11 (4.2%) Pou3f2/Pou3f1/Pou3f4/Pou3f3 Arid2 | Arid5b/Arid5a + 11 (3.4%) 11 (4.2%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 + 11 (3.4%) 11 (3.0%) Nkx-2.2a | Tgif1/Tgif2 + 11 (3.4%) 11 (2.4%) Nkx-2.2a | Tgif1/Tgif2 + 11 (3.4%) 11 (2.4%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Nkx-2.2a | Tgif1/Tgif2 + 11 (3.4%) 11 (3.0%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Cic + 11 (3.4%) 11 (1.8%) RFX.HG1.6:like:RFX6 10 20 30 10 0 20 30 % of peaks

gland q0.95-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 89 (28. Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 89 (19.6%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 81 (25.5%) 81 (27 78 (24.5%) 78 (25.2% Arid3c/Arid3a/Arid3b 61 (19.2%) 61 (17.8%) Foxn4/Foxn1 57 (17.9%) 57 (9.2%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 1 motif 38 (11.9%) 38 (9.2%) NvSox2 | NvSoxC 37 (11.6%) 37 (11.0%) Cic 36 (11.3%) 36 (8.6%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 35 (11.0%) 35 (14.1%) Lhx8/Lhx6 35 (11.7%) 35 (11.0%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 35 (11.0%) 35 (9.8%) 33 (11.7%) 33 (10.4%) Nkx-2.2a | Tgif1/Tgif2 Arid3c/Arid3a/Arid3b + 25 (6.1%) 25 (7.9%) 22 (6.9%) 22 (2.5%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35;FEZF1/FEZF2/GFI1/GFI1B Homeodomains.HG1.37;NKX6-1/NKX6-2/NKX6 19 (6.0%) 19 (5.5%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2 18 (5.7%) 18 (6.1%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-17 (4.3%) 17 (5.3%) Hlx | Homeodomains .HG1.53:MNX1 | Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637 16 (3.1%) 16 (5.0%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Arid3c/Arid3a/Arid3b + 15 (4.7%) 15 (4.9%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx 15 (4.7%) 15 (3.7%) 14 (2.5%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/F 14 (4.4%) 12 (3.8%) 12 (0.6%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35;FEZF1/FEZF2/GFI1/GFI1B | Zfp Homeodomains.HG1.37;NKX6-1/NKX6-2/NKX6-3 | 12 (3.8%) 12 (2.5%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC. | Tcf3/Tcf12/Tcf4 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 12 (3.8%) 12 (3.7%) Cic Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 12 (2.5%) 12 (3.8%) 11 (3.5%) 11 (1.2%) 11 (3.5%) 11 (3.1%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... 11 (3.5%) 11 (3.1%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Arid3c/Arid3a/Arid3b + 10 (3.1%) 10 (1.8%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC, | Tcf3/Tcf12/Tcf4 Arid3c/Arid3a/Arid3b + 10 (3.1%) 10 (3.1%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 10 (3.1%) 10 (1.2%) 9 (2.8%) 9 (3.7%) 9 (1.8%) 9 (2.8%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Nkx-2.2a | Tgif1/Tgif2 + 9 (2.8%) 9 (2.5%) Cic Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 9 (2.8%) 9 (1.2%) 8 (2.5%) 8 (3.1%) 8 (2.5%) 8 (3.1%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pb Nkx-2.2a 8 (2.5%) 8 (2.5%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pk 8 (2.5%) 8 (1.2%) 7 (2.2%) 7 (1.2%) Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B 7 (2.2%) 7 (3.1%) motifs 7 (2.2%) 7 (1.2%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 + 7 (2.2%) 7 (1.2%) 7 (2.2%) 7 (2.5%) HIx | Homeodomains.HG1.53:MNX1 | Nk 7 (2.2%) 7 (1.8%) 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 | Zfp63Z/Zfp944/Zfp942 | Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 7 (2.2%) 7 (1.2%) 7 (2.2%) 7 (1.2%) 6 (0.6%) 6 (1.9%) 6 (1.9%) 6 (3.1%) 6 (1.9%) 6 (1.2%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf 6 (1.9%) 6 (2.5%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 6 (1.9%) 6 (1.8%) 6 (1.9%) 6 (1.8%) 5 (1.6%) 5 (2.5%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 + 5 (1.6%) 5 (1.8%) 5 (1.6%) 5 (1.8%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp63 5 (1.6%) 5 (1.8%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | 5 (1.6%) 5 (1.8%) 4 (1.3%) 4 (1.2%) 4 (1.3%) 4 (1.2%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx 4 (0.6%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC. HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... 4 (0.6%) 3 (1.2%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nk 3 (0.9%) 3 (1.8%) 3 (0.9%) 3 (0.6%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2 3 (0.9%) 3 (1.2%) Cic Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 + 3 (0.9%) 3 (0.6%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx 3 (0.9%) 3 (0.6%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 + 3 (0.9%) 3 (0.6%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp63 3 (0.9%) 3 (0.6%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... 3 (0.9%) 3 (0.6%) 3 (0.9%) 3 (0.6%) 7 (2.2%) 7 (1.2%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | 2fp83/ 6 (1.9%) 6 (1.2%) 6 (2.5%) 6 (1.9%) 6 (1.9%) 6 (1.2%) 5 (1.6%) 5 (0.6%) 5 (0.6%) 5 (1.6%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfg 5 (1.2%) 5 (1.6%) 4 (0.0%) 4 (1.3%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | 2fp3/5/7 4 (1.3%) 4 (1.2%) HIX I Homeodomains HG1.5 Homeodomains.HG1.37:NKX6-1/NKX6-2/NK 4 (1.2%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Z 4 (1.2%) 4 (1.3%) 4 (0.6%) 4 (0.0%) 3 motifs 4 (0.6%) 4 (1.2%) 4 (1.2%) Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp63 4 (1.2%) 3 (1.2%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | HIx | Homeodomains.HG1.53:MNX13 3 (0.9%) 3 (0.0%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35;FEZF1 3 (0.0%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | 3 (0.6%) HIX | Homeodomains HG1 53:MNX1 | NF0XP-4/F0XP2-9 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + Nv58X94/F0XP0 C HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tct3/Tct1/2/Tct4 + Nvt1 | zt C2H2 HC4 25:FF774/F67791 3 (0.0%) 3 (0.6%) 3 (0.0%) 3 (0.0%) 3 (0.9%) 3 (1.2%) 3 (0.6%) 3 (0.0%) 3 (0.9%) 3 (0.0%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6 Insm1 | Egr3/Egr1 | Myt1/St18/Myt1 | zf-C2H2:HG1:35:FEZE1/EZE2/GE1/GE1/B1.33: 4 (1.2%) 3 (1.2%) NvSox2 | NvSoxC0 30 0 10 30 10 20 20 % of peaks





gland_mucin q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 27 (29 27 (30 Lhx8/Lhx6 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... 23 (23.6%) 23 (25.0%) 20 (21.7%) 20 (21.3%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... 20 (22.5%) 20 (21.7%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 18 (19.6%) 18 (20.2%) HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 17 (18.5%) 17 (19.1%) XBP1 17 (18.5%) 17 (18.0%) Rfx4 17 (19.1%) RFX1/2/3 | Rfx4/6/8 17 (18.5%) 1 motif 15 (16.9%) 15 (16.3%) Arid3c/Arid3a/Arid3b 13 (14.1%) 13 (14.6%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 13 (14.1%) 13 (14.6%) Atoh8 | Srebf2/Srebf1 12 (13.0%) 12 (13.5%) T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB.. 11 (12.0%) 11 (12.4%) FoxA/D? | FoxL2 11 (12.4%) NvSox2 | NvSoxC 11 (12.0%) 11 (12.4%) 11 (12.0%) Creb3l2/Creb3l1 10 (10.9%) 10 (10.1%) RFX.HG1.6:like:RFX6 E430018J23Rik | Gfi1b/Gfi1 | Ovol3/Ovol1 | Prdm14 | zf-C2H2.HG1.62:ZBTB11 | zf-C2H2.HG1.8:ZNF18/Z.. 10 (10.9%) 10 (11.2%) Lhx8/Lhx6 + 9 (9.8%) 9 (10.1%) XBP1 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 7 (7.9%) 7 (7.6%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Lhx8/Lhx6 + 6 (6.5%) 6 (6.7%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H. FoxA/D? | FoxL2 + 6 (6.5%) 6 (6.7%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 6 (6.5%) 6 (6.7%) 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... + 6 (6.5%) 6 (6.7%) RFX1/2/3 | Rfx4/6/8 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 6 (6.5%) 6 (6.7%) RFX1/2/3 | Rfx4/6/8 Lhx8/Lhx6 + 5 (5.4%) 5 (5.6%) Creb3l2/Creb3l1 Lhx8/Lhx6 + 5 (5.4%) 5 (5.6%) Arid3c/Arid3a/Arid3b Lhx8/Lhx6 + 5 (5.4%) 5 (5.6%) HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 **XBP1 +** 5 (5.4%) 5 (5.6%) Arid3c/Arid3a/Arid3b FoxA/D? | FoxL2 + 5 (5.4%) 5 (5.6%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 5 (5.4%) 5 (5.6%) NvSox2 | NvSoxC Atoh8 | Srebf2/Srebf1 + 5 (5.4%) 5 (5.6%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 4 (4.3%) 4 (4.5%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 4 (4.3%) 4 (4.5%) Creb3l2/Creb3l1 Lhx8/Lhx6 + 4 (4.3%) 4 (4.5%) RFX.HG1.6:like:RFX6 Lhx8/Lhx6 + 4 (4.3%) 4 (4.5%) FoxA/D? | FoxL2 Lhx8/Lhx6 + 4 (4.3%) 4 (4.5%) E430018J23Rik | Gfi1b/Gfi1 | Ovol3/Ovol1 | Prdm14 | zf-C2H2.HG1.62:ZBTB11 | zf-C2H2.HG1.8:ZNF18/Z... Lhx8/Lhx6 + 4 (4.3%) 4 (4.5%) Atoh8 | Srebf2/Srebf1 Lhx8/Lhx6 + 4 (4.3%) 4 (4.5%) RFX1/2/3 | Rfx4/6/8 RFX.HG1.6:like:RFX6 + 4 (4.3%) 4 (4.5%) Creb3l2/Creb3l1 **XBP1** + 4 (4.3%) 4 (4.5%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 **XBP1 +** 4 (4.3%) 4 (4.5%) Rfx4 E430018J23Rik | Gfi1b/Gfi1 | Ovol3/Ovol1 | Prdm14 | zf-C2H2.HG1.62:ZBTB11 | zf-C2H2.HG1.8:ZNF18/Z... + 4 (4.3%) 4 (4.5%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... 2 motifs /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 4 (4.3%) 4 (3.4%) Rfx4 Arid3c/Arid3a/Arid3b + 4 (4.3%) 4 (4.5%) Rfx4 Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 3 (3.3%) 3 (3.4%) 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:... + 3 (3.3%) 3 (3.4%) Atoh8 | Srebf2/Srebf1 Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 3 (3.3%) 3 (3.4%) 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:... + 3 (3.3%) 3 (3.4%) T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB... Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 3 (3.3%) 3 (3.4%) RFX1/2/3 | Rfx4/6/8 AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 3 (3.3%) 3 (3.4%) E430018J23Rik | Gfi1b/Gfi1 | Ovol3/Ovol1 | Prdm14 | zf-C2H2.HG1.62:ZBTB11 | zf-C2H2.HG1.8:ZNF18/Z... AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 3 (3.3%) 3 (3.4%) HMGbox Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox Sox.HG1.62:like:NSD2 Lhx8/Lhx6 + 3 (3.3%) 3 (3.4%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Lhx8/Lhx6 + 3 (3.3%) 3 (3.4%) T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB.. Lhx8/Lhx6 + 3 (3.3%) 3 (3.4%) Rfx4 RFX.HG1.6:like:RFX6 + 3 (3.3%) 3 (3.4%) Atoh8 | Srebf2/Srebf1 RFX.HG1.6:like:RFX6 + 3 (3.3%) 3 (3.4%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 FoxA/D? | FoxL2 + 3 (3.3%) 3 (3.4%) RFX1/2/3 | Rfx4/6/8 E430018J23Rik | Gfi1b/Gfi1 | Ovol3/Ovol1 | Prdm14 | zf-C2H2.HG1.62:ZBTB11 | zf-C2H2.HG1.8:ZNF18/Z... + 3 (3.3%) 3 (3.4%) Arid3c/Arid3a/Arid3b E430018J23Rik | Gfi1b/Gfi1 | Ovol3/Ovol1 | Prdm14 | zf-C2H2.HG1.62:ZBTB11 | zf-C2H2.HG1.8:ZNF18/Z... + 3 (3.3%) 3 (3.4%) RFX1/2/3 | Rfx4/6/8 NvSox2 | NvSoxC + 3 (3.3%) 3 (3.4%) Atoh8 | Srebf2/Srebf1 NvSox2 | NvSoxC + 3 (3.3%) 3 (3.4%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 NvSox2 | NvSoxC + 3 (3.3%) 3 (3.4%) HMGbox Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox Sox.HG1.62:like:NSD2 Creb3l2/Creb3l1 + 3 (3.3%) 3 (3.4%) Atoh8 | Srebf2/Srebf1 Creb3l2/Creb3l1 + 3 (3.3%) 3 (3.4%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Creb3l2/Creb3l1 + 3 (3.3%) 3 (3.4%) RFX1/2/3 | Rfx4/6/8 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 3 (3.3%) 3 (3.4%) HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 3 (3.3%) 3 (3.4%) Rfx4 HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 3 (3.3%) 3 (3.4%) Rfx4 HMGbox_Sox.HG1.52:like:LEF1/TCF7/TCF7L1/TCF... | HMGbox_Sox.HG1.62:like:NSD2 + 3 (3.3%) 3 (3.4%) RFX1/2/3 | Rfx4/6/8 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 3 (3.4%) 3 (3.3%) NvSox2 | NvSoxC + motifs 3 (3.3%) 3 (3.4%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + RFX1/2/3 | Rfx4/6/8 10 20 30 0 30 10 20 % of peaks

