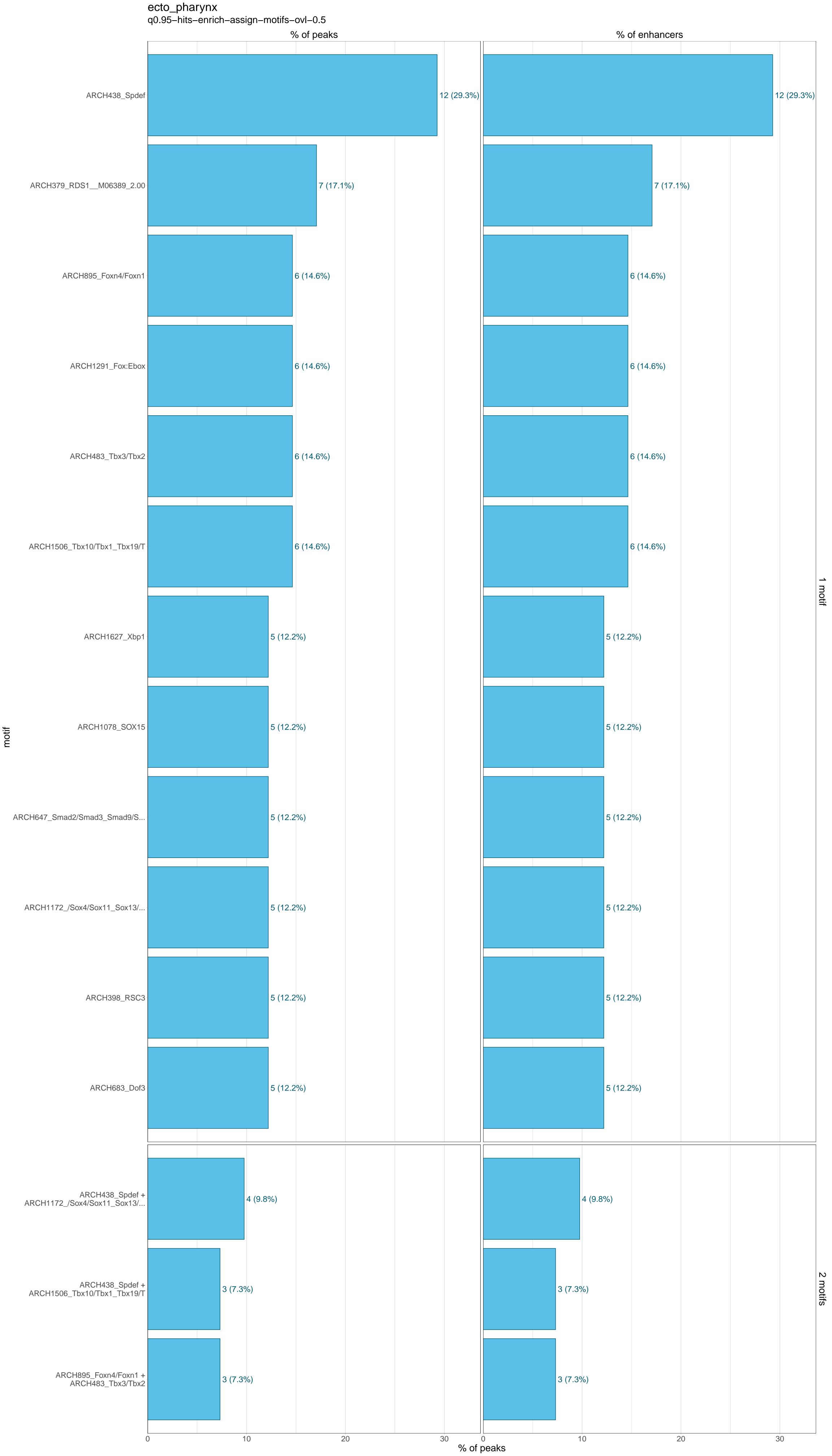
cnidocyte q0.95-hits-enrich-assign-motifs-ovl-0.5 % of peaks % of enhancers ARCH860\_E2A\_\_esg 357 (33.0% 357 (33.1% ARCH438\_Spdef 240 (22.2%) 240 (20.6%) ARCH647\_Smad2/Smad3\_Smad9/S... 233 (21.5%) 233 (20.8%) 1 motif 204 (18.9%) 204 (16.4%) ARCH56\_POU4F1 177 (16.4%) 177 (16.0%) ARCH1408\_GATA20 165 (15.2%) 165 (12.8%) ARCH895\_Foxn4/Foxn1 149 (13.8%) 149 (14.2%) ARCH483\_Tbx3/Tbx2 ARCH860\_E2A\_\_esg + 81 (7.5%) 81 (7.9%) ARCH438\_Spdef ARCH860\_E2A\_\_esg + 71 (6.6%) 71 (6.9%) ARCH647\_Smad2/Smad3\_Smad9/S... ARCH860\_E2A\_\_esg + 57 (5.1%) 57 (5.3%) ARCH1408\_GATA20 ARCH860\_E2A\_\_esg + ARCH56\_POU4F1 55 (5.1%) 55 (4.7%) ARCH860\_E2A\_\_esg + 52 (4.8%) 52 (5.2%) ARCH483\_Tbx3/Tbx2 ARCH860\_E2A\_\_esg + 51 (3.5%) 51 (4.7%) ARCH895\_Foxn4/Foxn1 ARCH647\_Smad2/Smad3\_Smad9/S... + 50 (4.6%) 50 (4.6%) ARCH438\_Spdef ARCH1408\_GATA20 + 47 (4.3%) 47 (4.6%) ARCH438\_Spdef ARCH438\_Spdef + 47 (4.3%) 47 (3.4%) ARCH56\_POU4F1 ARCH647\_Smad2/Smad3\_Smad9/S... + 43 (4.0%) 43 (3.2%) ARCH895\_Foxn4/Foxn1 2 motifs ARCH647\_Smad2/Smad3\_Smad9/S... + 42 (3.5%) 42 (3.9%) ARCH56\_POU4F1 ARCH438\_Spdef + 38 (3.5%) 38 (2.5%) ARCH895\_Foxn4/Foxn1 ARCH647\_Smad2/Smad3\_Smad9/S... + 37 (2.9%) 37 (3.4%) ARCH1408\_GATA20 ARCH438\_Spdef + 37 (3.4%) 37 (3.5%) ARCH483\_Tbx3/Tbx2 ARCH647\_Smad2/Smad3\_Smad9/S... + 36 (3.3%) 36 (3.0%) ARCH483\_Tbx3/Tbx2 ARCH1408\_GATA20 + 35 (3.2%) 35 (2.7%) ARCH56\_POU4F1 ARCH56\_POU4F1 + 32 (3.0%) 32 (2.7%) ARCH895\_Foxn4/Foxn1 ARCH483\_Tbx3/Tbx2 + 28 (2.6%) 28 (2.0%) ARCH56\_POU4F1 ARCH483\_Tbx3/Tbx2 + 24 (2.2%) 24 (2.2%) ARCH895\_Foxn4/Foxn1 ARCH1408\_GATA20 + 22 (2.0%) 22 (1.4%) ARCH895\_Foxn4/Foxn1 ARCH1408\_GATA20 + 21 (1.9%) 21 (2.0%) ARCH483\_Tbx3/Tbx2 ARCH860\_E2A\_\_esg + 19 (1.8%) 19 (1.5%) ARCH438\_Spdef + ARCABOHEDAPOUAF1 ARCH1408\_GATA20 + 16 (1.5%) 16 (1.5%) ARCH860\_H238\_Spgef ARCH438\_Spdef + 15 (1.4%) 15 (1.9%) ARCH8683=JAX3/JbX2 ARCH438\_Spdef + 14 (1.3%) 14 (0.8%) ARCH895 Fexn4/Fexn1 ARCH647\_Smad2/Smad3\_Smad9/S... + 12 (1.1%) 12 (1.0%) ARCREHI 408AGATA2Q 12 (1.5%) ARCH647\_Smad2/Smad3\_Smad9/S... + 12 (1.1%) ARCH860\_H238\_Spgef ARCH647\_Smad2/Smad3\_Smad9/S... + 12 (1.4%) 12 (1.1%) ARCH8683=JAX3/JbX2 ARCH647\_Smad2/Smad3\_Smad9/S... + 11 (0.8%) 11 (1.0%) 4RCH885-FEXA4/FEXA1 ARCH56\_POU4F1 + 11 (1.0%) 11 (1.0%) ARCH895-FOXA4/FOXP1 10 (1.0%) ARCH1408\_GATA20 + 10 (0.9%) ARCH8683EZAX3/Tbx2 ARCH1408\_GATA20 + 9 (0.8%) 9 (0.8%) ARCH647\_Smad2/SmadSH56aB9/S4F1 ARCH1408\_GATA20 + 9 (0.8%) 9 (0.8%) ARCH647\_Smad2/Smad3\_Smad9/Sp.def 9 (0.8%) 9 (0.5%) ARCH438\_Spdef + ARCHR4686GR9426F1 ARCH438\_Spdef + 9 (0.8%) 9 (1.0%) ARCABOHEGAPOUAF1 ARCH647\_Smad2/Smad3\_Smad9/S... + 8 (0.7%) 8 (0.7%) ARCABOHEOAPOUSF1 ARCH483\_Tbx3/Tbx2 + 8 (0.7%) 8 (0.8%)  $\omega$ ARCH647\_Smad2/SHad5-Shxn49F9xn1 motifs ARCH56\_POU4F1 + 8 (0.7%) 8 (0.5%) ARCH895HF98n4/F98n1 ARCH56\_POU4F1 + 8 (0.7%) 8 (0.5%) ARCH895\_F2XN4/F9XN1 ARCH483\_Tbx3/Tbx2 + 7 (0.7%) 7 (0.6%) ARCH647\_Smad2/Smad9-5mad9/94F1 ARCH438\_Spdef + 7 (0.6%) 7 (0.7%) ARCH647\_Smad2/Smad3\_Smad9/S...2 ARCH438\_Spdef + 7 (0.7%) 7 (0.6%) ARCH647\_Smad2/SHad5\_Shad9/9xn1 ARCH483\_Tbx3/Tbx2 + 7 (0.6%) 7 (0.7%) ARRH895-80%AHR9801 ARCH438\_Spdef + 7 (0.6%) 7 (1.0%) ARCHUBA35bx3/Jbx2 ARCH483\_Tbx3/Tbx2 + 7 (0.6%) 7 (0.3%) ARCH647\_Smad2/Smad9/Smad9/S...1 ARCH1408\_GATA20 + 6 (0.5%) 6 (0.6%) ARCH647\_Smad2/Smad3\_Smad3/Jbx2 ARCH483\_Tbx3/Tbx2 + 6 (0.3%) 6 (0.6%) ARCH647\_Smad2/Smad9/Sin ARCH1408\_GATA20 + 5 (0.5%) 5 (0.3%) ARCH647\_Smad2/Smad9H56\_B9/H4F1 ARCH1408\_GATA20 + 5 (0.5%) 5 (0.2%) ARRH895080X9AHR9X01 ARCH438\_Spdef + 5 (0.5%) 5 (0.3%) 5 (0.5%) 5 (0.5%) ARCH483\_Tbx3/Tbx2 + ARCH458-PSPU4F1 ARCH483\_Tbx3/Tbx2 + 5 (0.5%) 5 (0.3%) ARCH895-Fexn4/Fexn1  $ARCH1408\_GATA20 + 4 (0.4\%)$ 4 (0.2%) ARCH485\_F8X3/1F8X21 ARCH56\_POU4F1 + 3 (0.3%) 3 (0.3%) ARCH895\_Foxn4/Foxn1 ARCH860\_E2A\_\_esg + ARCH1408\_GATA20 + ARCH8601438A Spelef + 5 (0.5%) 5 (0.5%) ARCH647\_Smad2/Smad9/S4F 4 (0.2%) ARCH8666E2AU451 + ARCH866H488H488D45 4 (0.3%) 4 (0.4%) 4 (0.2%) motifs ARCH647\_Smad27\$ 3 (0.3%) 3 (0.2%) ARCH647\_Smad2/Sm 3 (0.3%) 3 (0.2%) ARCH647\_Smad2/Smala 3 (0.3%) 3 (0.3%) 3 (0.3%) 3 (0.5%) 3 (0.3%) 3 (0.3%) ARCH483\_Tbx3/Tbx2 + ARCH56\_POU4F1 10 30 10 20 20 30 % of peaks

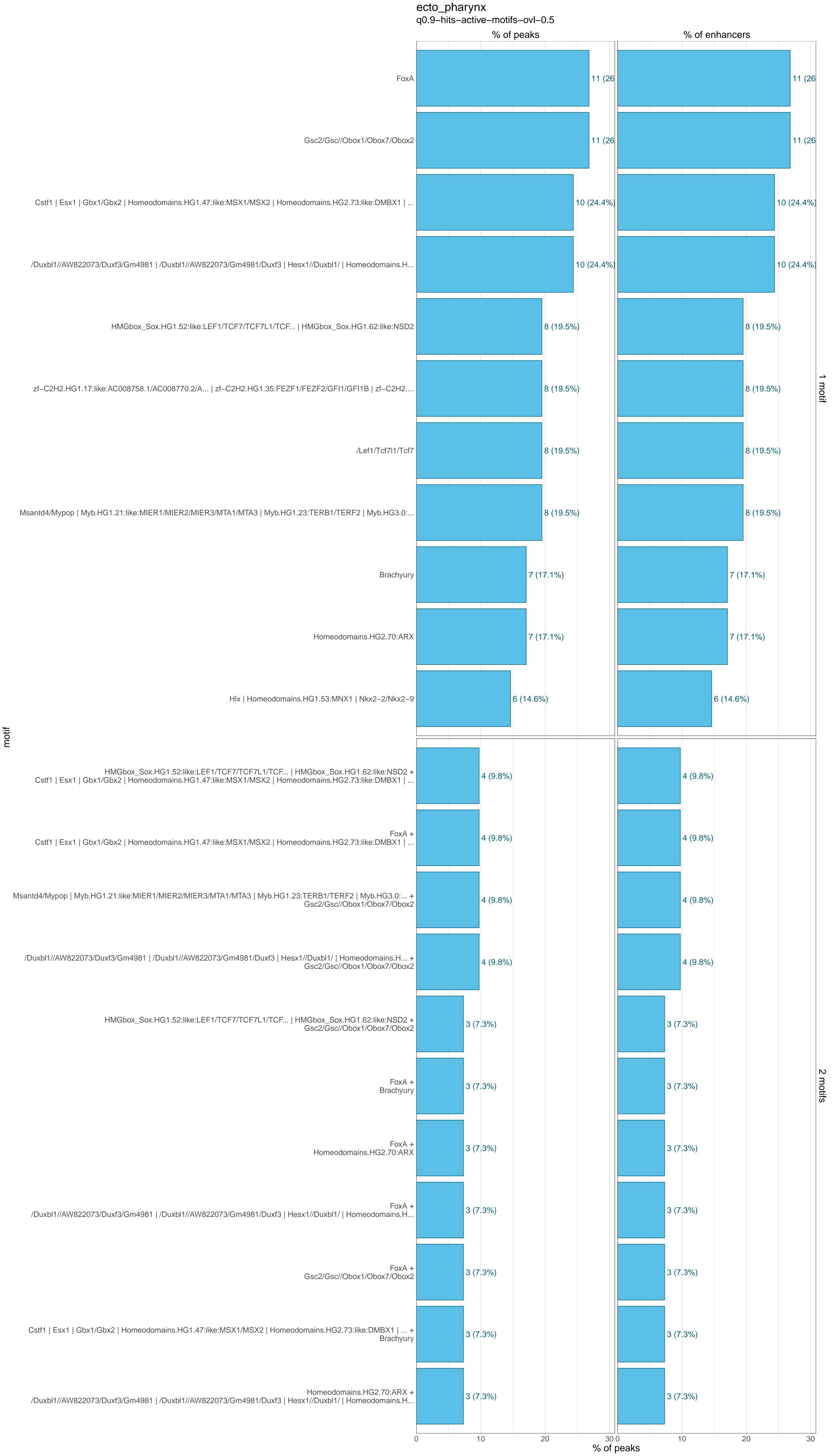
cnidocyte q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 332 (3 332 (3 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 294 (27.8%) 294 (27.7% 266 (23.0%) Pou4 266 (25.1%) FoxA/D? | FoxL2 246 (23.3%) 246 (23.7%) 238 (19.3%) Nfya 238 (22.5%) Zfp760/Zfp770 210 (19.8%) 210 (21.2%) 159 (14.8%) 159 (15.0%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... 155 (14.7%) 155 (15.3%) MIx 1 motif Arid2 | Arid5b/Arid5a 144 (13.6%) 144 (14.8%) 142 (13.9%) 142 (13.4%) Sox30 139 (11.8%) NvSox2 | NvSoxC 139 (13.1%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... 132 (12.5%) 132 (12.5%) 122 (11.5%) 122 (11.7%) HLH.HG1.77:like:NEUROD1/NEUROD2/NEUROD4/NEU... 118 (11.2%) 118 (11.5%) SoxB2/Sox3 115 (11.3%) 115 (10.9%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... 115 (11.8%) 115 (10.9%) TEA.HG1.0:TEAD1/TEAD2/TEAD3/TEAD4 109 (10.3%) 109 (8.2%) bZIP.HG1.3:like:JUN/JUNB/JUND 77 (7.3%) 77 (5.9%) 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 75 (7.1%) 75 (6.8%) Pou4 + 74 (7.0%) 74 (5.9%) 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 + 69 (6.8%) 69 (6.5%) FoxA/D? | FoxL2 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 69 (6.5%) 69 (7.7%) Zfp760/Zfp770 FoxA/D? | FoxL2 + 65 (6.1%) 65 (5.9%) 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 + 63 (5.2%) 63 (6.0%) FoxA/D? | FoxL2 + 63 (6.0%) 63 (5.9%) Pou<sub>4</sub> Pou4 + 62 (6.3%) 62 (5.9%) Zfp760/Zfp770 Zfp760/Zfp770 + 62 (5.9%) 62 (6.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Nfya + 53 (5.0%) 53 (4.0%) Pou4 Nfya + 53 (5.0%) 53 (4.0%) 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 + 53 (5.0%) 53 (5.0%) NvSox2 | NvSoxC Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 53 (5.0%) 53 (5.6%) Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 51 (4.0%) 51 (4.8%) Pou4 + 47 (4.4%) 47 (4.3%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... Arid2 | Arid5b/Arid5a + 46 (4.3%) 46 (4.5%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 46 (4.3%) 46 (4.5%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 FoxA/D? | FoxL2 + 45 (4.3%) 45 (4.3%) Zfp760/Zfp770 Nfya + 44 (4.2%) 44 (3.5%) FoxA/D? | FoxL2 Nfya + 44 (4.2%) 44 (3.8%) Zfp760/Zfp770 Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... + 44 (4.2%) 44 (4.2%) 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 + 43 (4.1%) 43 (3.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... FoxA/D? | FoxL2 + 43 (4.1%) 43 (4.2%) 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 (4.0%) 42 (2.8%) 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 + 42 (4.0%) 42 (4.0%) motifs Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 41 (3.9%) 41 (3.1%) 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 + 39 (3.7%) 39 (3.8%) TEA.HG1.0:TEAD1/TEAD2/TEAD3/TEAD4 Pou4 + 39 (3.7%) 39 (2.4%) NvSox2 | NvSoxC Arid2 | Arid5b/Arid5a + 38 (3.6%) 38 (3.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Pou4 + 38 (3.6%) 38 (3.3%) Sox30 Arid2 | Arid5b/Arid5a + 37 (3.5%) 37 (3.3%) FoxA/D? | FoxL2 MIx + 37 (3.5%) 37 (3.1%) Pou4 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 37 (3.5%) 37 (3.8%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Nfya + 36 (3.4%) 36 (3.3%) NvSox2 | NvSoxC Nfya + 35 (3.3%) 35 (2.4%) Mlx Nfya + 35 (3.3%) 35 (3.0%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... NvSox2 | NvSoxC + 35 (3.3%) 35 (2.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Sox30 + 35 (3.3%) 35 (3.3%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Arid2 | Arid5b/Arid5a + 34 (3.2%) 34 (3.7%) Pou4 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 34 (3.2%) 34 (3.3%) FoxA/D? | FoxL2 + 34 (3.2%) 34 (3.0%) NvSox2 | NvSoxC NvSox2 | NvSoxC + 34 (3.2%) 34 (3.1%) Zfp760/Zfp770 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 33 (3.1%) 33 (3.5%) FoxA/D? | FoxL2 Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 32 (3.0%) 32 (3.0%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 32 (3.0%) 32 (3.3%) Zfp760/Zfp770 SoxB2/Sox3 + 32 (3.0%) 32 (3.5%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 31 (2.9%) 31 (3.0%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Nfya + SoxB2/Sox3 31 (2.9%) 31 (2.8%) MIx + 31 (2.9%) 31 (3.3%) HLH.HG1.77:like:NEUROD1/NEUROD2/NEUROD4/NEU.. FoxA/D? | FoxL2 + 31 (2.9%) 31 (3.0%) Sox30 TEA.HG1.0:TEAD1/TEAD2/TEAD3/TEAD4 + 31 (2.9%) 31 (3.0%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 HLH.HG1.77:like:NEUROD1/NEUROD2/NEUROD4/NEU... + 31 (2.9%) 31 (3.0%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 30 10 20 10 20 % of peaks

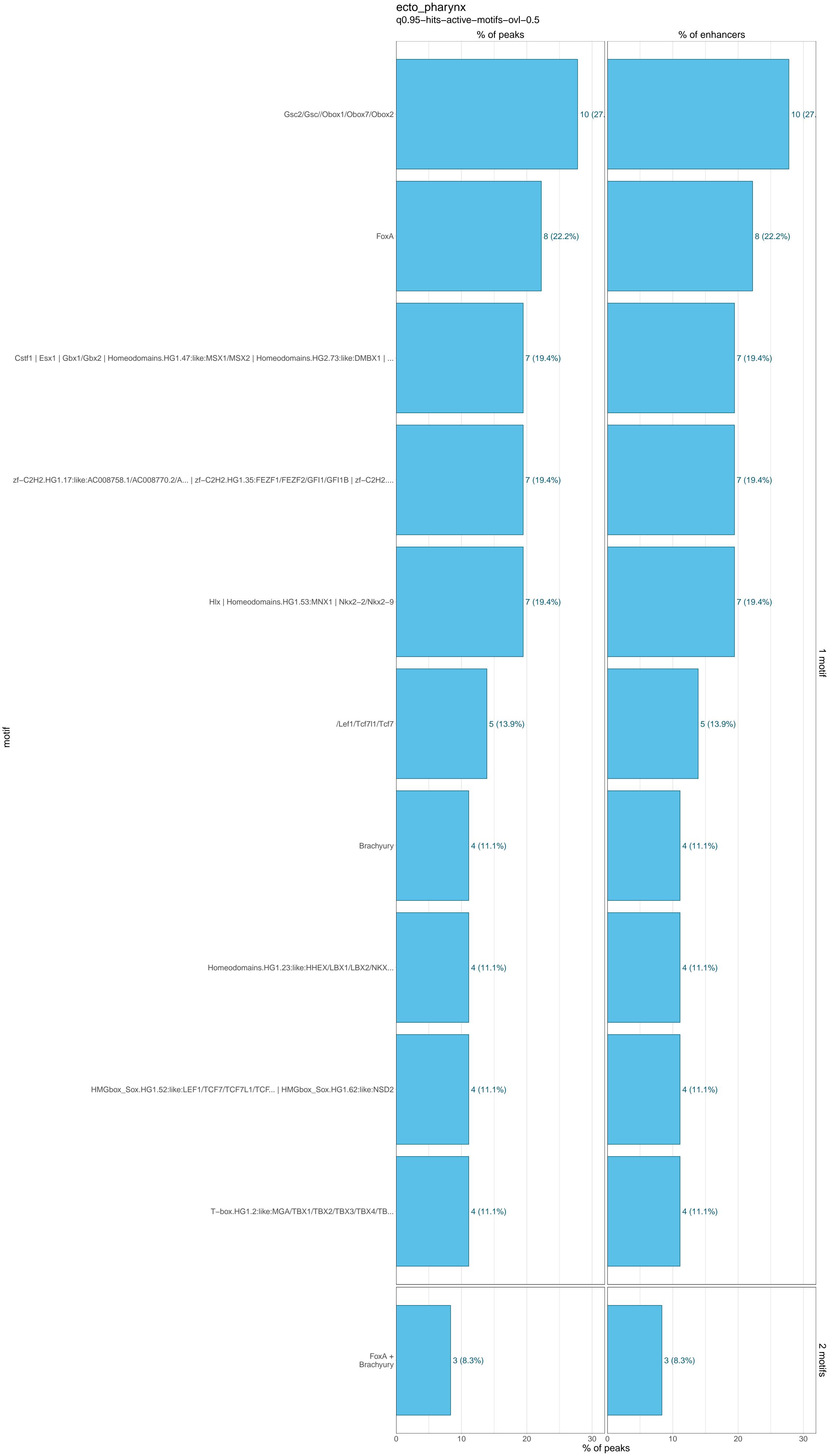
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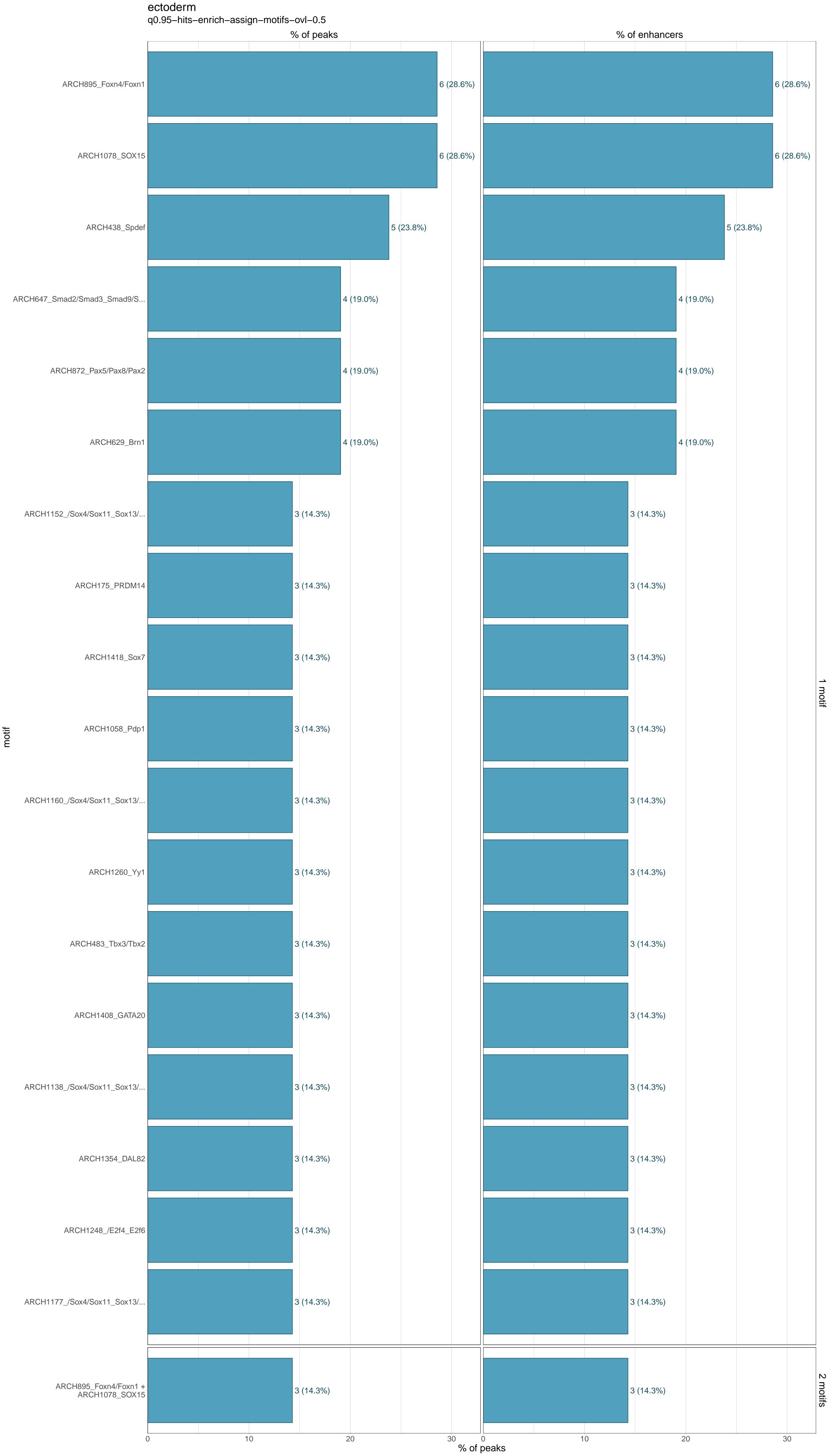
% of peaks % of enhancers AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2-144 (5) 144 (4 53 (18.3%) 53 (17.5%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 49 (17.0%) 49 (16.1%) FoxA/D? | FoxL2 48 (16.6%) 48 (15.7%) Creb3l2/Creb3l1 47 (16.3%) 47 (16.1%) Arid3c/Arid3a/Arid3b Pou4 43 (15.0%) 43 (14.9%) Nkx-2.2a | Tgif1/Tgif2 43 (14.3%) 43 (14.9%) 38 (13.1%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H.. 38 (13.6%) zf-C4\_Nuclear\_receptors.HG1.25:like:NR2F1/N... 38 (13.1%) 38 (12.9%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2... 37 (12.8%) 37 (12.5%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119... 37 (12.8%) 37 (12.9%) 33 (11.4%) 33 (11.8%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 30 (10.4%) 30 (10.0%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 26 (9.0%) 26 (8.6%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 24 (8.3%) 24 (8.2%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 20 (6.9%) 20 (6.4%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 20 (6.9%) 20 (6.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 19 (6.6%) 19 (6.8%) AshA | BHMG1 | Ahr/Ahrr | HLH. HG1.29: MYC/MYCL/MYCN | Sohlh2 AshA | BHMG1 | Ahr/Ahrr | HLH. HG1.29: MYC/MYCL/MYCN | Sohlh2 + 18 (6.2%) 18 (6.4%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 18 (6.2%) 18 (6.4%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 16 (5.5%) 16 (5.0%) 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 (4.5%) 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 (4.2%) 12 (4.3%) 12 (4.2%) 12 (4.3%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 11 (3.8%) 11 (3.6%) 10 (3.5%) 10 (3.2%) 10 (3.5%) 10 (3.2%) 10 (3.5%) 10 (2.9%) 9 (3.1%) 9 (2.9%) Nkx-2.2a | Tgif1/Tgif2 8 (2.8%) 8 (2.5%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-34 Pb 8 (2.8%) 8 (2.9%) zf-C4\_Nuclear\_receptors/ /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1 7 (2.4%) 7 (2.5%) 7 (2.4%) 7 (2.5%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 7 (2.4%) 7 (2.5%) FoxA/D? /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomain 7 (2.4%) 7 (2.5%) Arid3c/Arid3a/Arid3b zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.... + 7 (2.4%) 7 (2.5%) 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 (2.4%) 7 (2.5%) 7 (2.4%) 7 (2.1%) 7 (2.4%) 7 (1.8%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 7 (2.4%) 7 (2.5%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pb motifs 7 (2.4%) 7 (1.8%) 7 (2.4%) 7 (2.5%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/F zf-C2H2.HG1:17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GF1 6 (2.1%) 6 (2.1%) 6 (2.1%) 6 (1.8%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A 6 (2.1%) 6 (1.8%) 6 (2.1%) 6 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1// |5 (1.7%) 5 (1.8%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.37:NKX6=1/NKX6=2/2/2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/2/2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/2/2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/2/A... | zf-C2H2.HG1.37:A... | zf-C2H2.HG1.A... | zf-C2H2.HG1.A... | zf-C2H2.HG1.A... | zf-C2H2.HG1.A... | zf-C2H2.HG1.A.. | zf-C2H2 5 (1.8%) |5 (1.7%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GF11/G 5 (1.7%) 5 (1.4%) Homeodomains, HG1.37:NKX6=1/NKX6=2/NKX6=3 | Pbx4/Pbzf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG1.37:FEZF2/GFI1/GFI1B | zf-C2H2.HG11B | zf-C2H2.HG1.37:FEZF2/GFI1/GFI1B | zf-C2H2.HG11B | zf-C2H2.HG 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 (1.7%) 5 (1.4%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.32:like:AC008770.2/A... | zf-C2H2.HG1.2/A... | zf-C2H |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... | Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 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%) 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%) zf-C4\_Nuclear\_receptors.HG1.25:like:NR2F 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 | Pbx4zf-C4\_Nuclear\_receptors.HG1.25:like:N Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119... Arid3c/Arid3b 4 (1.4%) 4 (1.4%) 4 (1.4%) 4 (1.4%) Nkx-2.2a | Tgif1/Tgif2 + 4 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... 3 (1.1%) 3 (1.0%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG1.35:FEZF1/FEZF2/GF11/GF11B 3 (1.0%) 3 (0.7%) 3 (1.0%) 3 (1.1%) 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/MYCL/MYCN 6 (2.1%) 6 (1.8%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 LF AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL 5 (1.7%) 5 (1.8%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MHXCN၂ နှစ် 5 (1.7%) 5 (1.8%) AshA | BHMG1 | Ahr/Ahre | HILH HG1 29:MYC/MYGL/MYGL/MYGL/MR24 5 (1.7%) 5 (1.8%) ASBALBHMGILLARYASTINELELHRIKZSMYGKYSCI-MYSC 5 (1.4%) 5 (1.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCJ 5 (1.4%) 5 (1.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL 5 (1.8%) 5 (1.7%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Solution | So 5 (1.4%) 5 (1.7%) 5 (1.7%) 5 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1// 4 (1.4%) 4 (1.4%) AshA | BHMG1 | Ahr/Ahrr | HLH HG1.29:MYC/N/Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx17/Duxbl1/ 4 (1.4%) 4 (1.4%) 4 (1.4%) 4 (1.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl2//A 4 (1.4%) 4 (1.4%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A....| zf-C2H2.HG1.35:FEZF1/FEZF2/GF1/AST/NKX6-1/NKX6-2/NKX 4 (1.1%) 4 (1.4%) 4 (1.4%) 4 (1.4%) AshA | BHMG1 | Ahr/Ahrr | HILH HG1 29:MYC/MYGI 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/MΥCΙ 4 (1.4%) 4 (1.1%) 3 (1.0%) 3 (1.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYGI 3 (1.1%) 3 (1.0%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A...|zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1 AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/M zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A...|zf-C2H2.HG1.35:FEZF1/FEZF2/GFI/AshA|BHMG1|Ahr/Ahrr|HLH.HG1.29:MYC/N 3 (1.0%) 3 (0.7%) 3 (1.0%) 3 (0.4%) zf-C2H2.HG1.17:like:AC008758.1/AC008770.2/A...|zf-C2H2.HG1.35:FEZF1/FEZF2/GFJ1/GF AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MXGL 3 (1.0%) 3 (1.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sehing 3 (1.0%) 3 (1.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN 3 (1.0%) 3 (1.1%) ASBALBHMGihs.ABY.NKKB-HRIKZ8-MYRKX8CS 3 (1.0%) 3 (1.1%) KIf13 | Sp6-9 | ZNF845 | Prdm13 | zf 2024 2 H 2 H 3 2 H 2 H 3 2 H 2 H 3 2 H 2 H 3 2 3 (1.1%) 3 (1.0%) 3 (1.1%) 3 (1.0%) 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 (1.1%) 3 (1.0%) Arid3c/Arid3a/Arid3b + Arid3c/Arid3b + 3 (1.0%) 3 (1.1%) 10 10 20 30 40 30 40 50 20 % of peaks

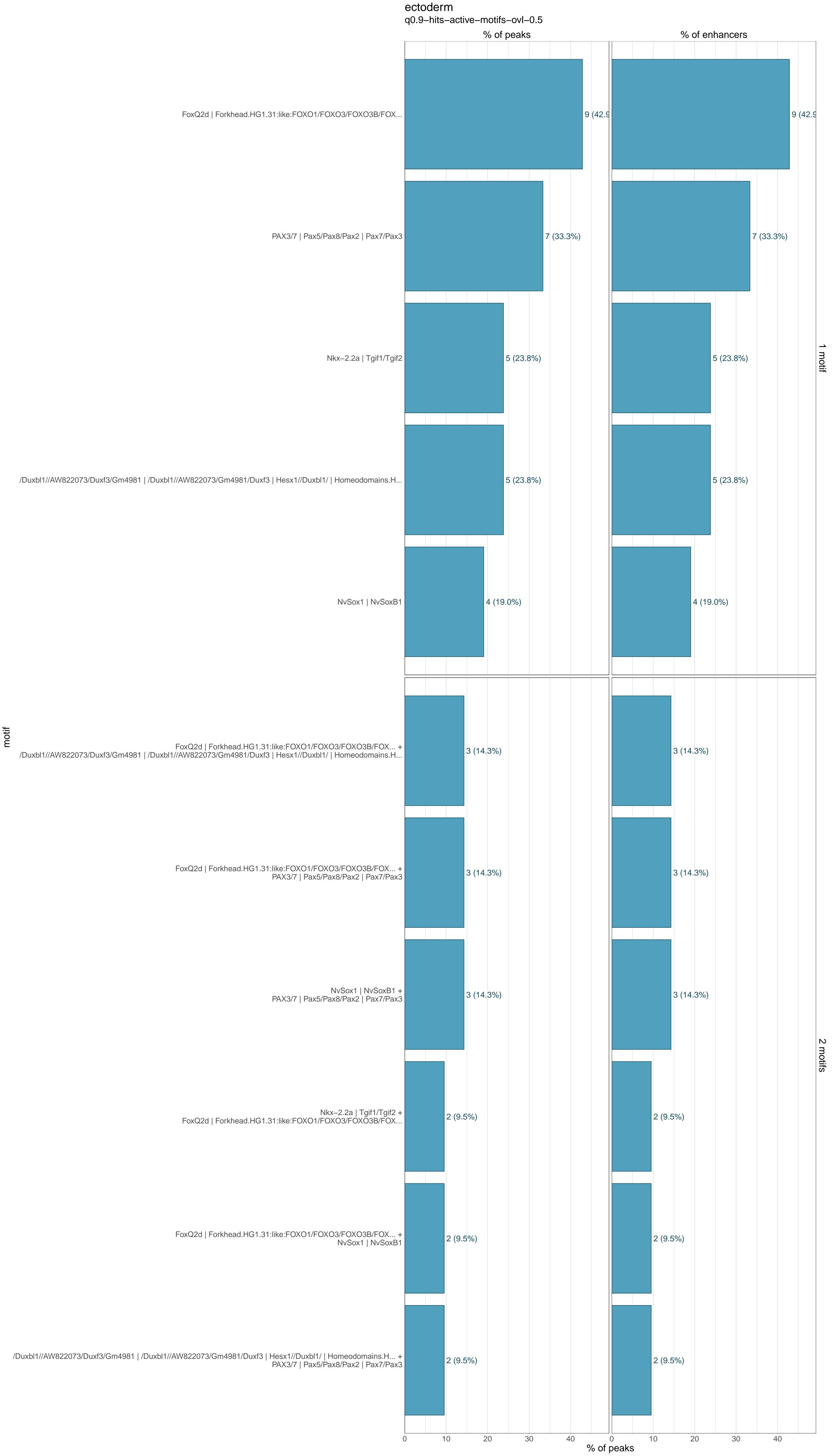
cnidocyte\_gastrula q0.95-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 52 (19. Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 52 (19. FoxA/D? | FoxL2 51 (18.8 51 (17.9%) 51 (18.8 51 (18.3%) Arid3c/Arid3a/Arid3b 1 motif 35 (12.6%) 35 (12.9%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 33 (12.2%) 33 (11.1%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1-32 (11.8%) 32 (12.2%) Mlx 31 (11.4%) 31 (11.8%) Pou4 FoxA/D? | FoxL2 + Arid3c/Arid3a/Arid3b 13 (4.2%) 13 (4.8%) Arid3c/Arid3a/Arid3b + 10 (3.7%) 10 (3.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 9 (2.7%) 9 (3.3%) Arid3c/Arid3a/Arid3b Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 8 (3.0%) 8 (3.1%) Arid3c/Arid3a/Arid3b FoxA/D? | FoxL2 + 8 (3.0%) 8 (2.7%) 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 (2.6%) 7 (2.7%) Pou4 + 7 (2.6%) 7 (2.7%) FoxA/D? | FoxL2 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 6 (2.2%) 6 (2.3%) FoxA/D? | FoxL2 FoxA/D? | FoxL2 + 6 (2.2%) 6 (1.5%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 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%) 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 3 (1.1%) 3 (1.1%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 + 3 (1.1%) 3 (1.1%) Mlx FoxA/D? | FoxL2 + 3 (1.1%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 3 (0.8%) 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 10 15 20 10 15 5 5 20 % of peaks

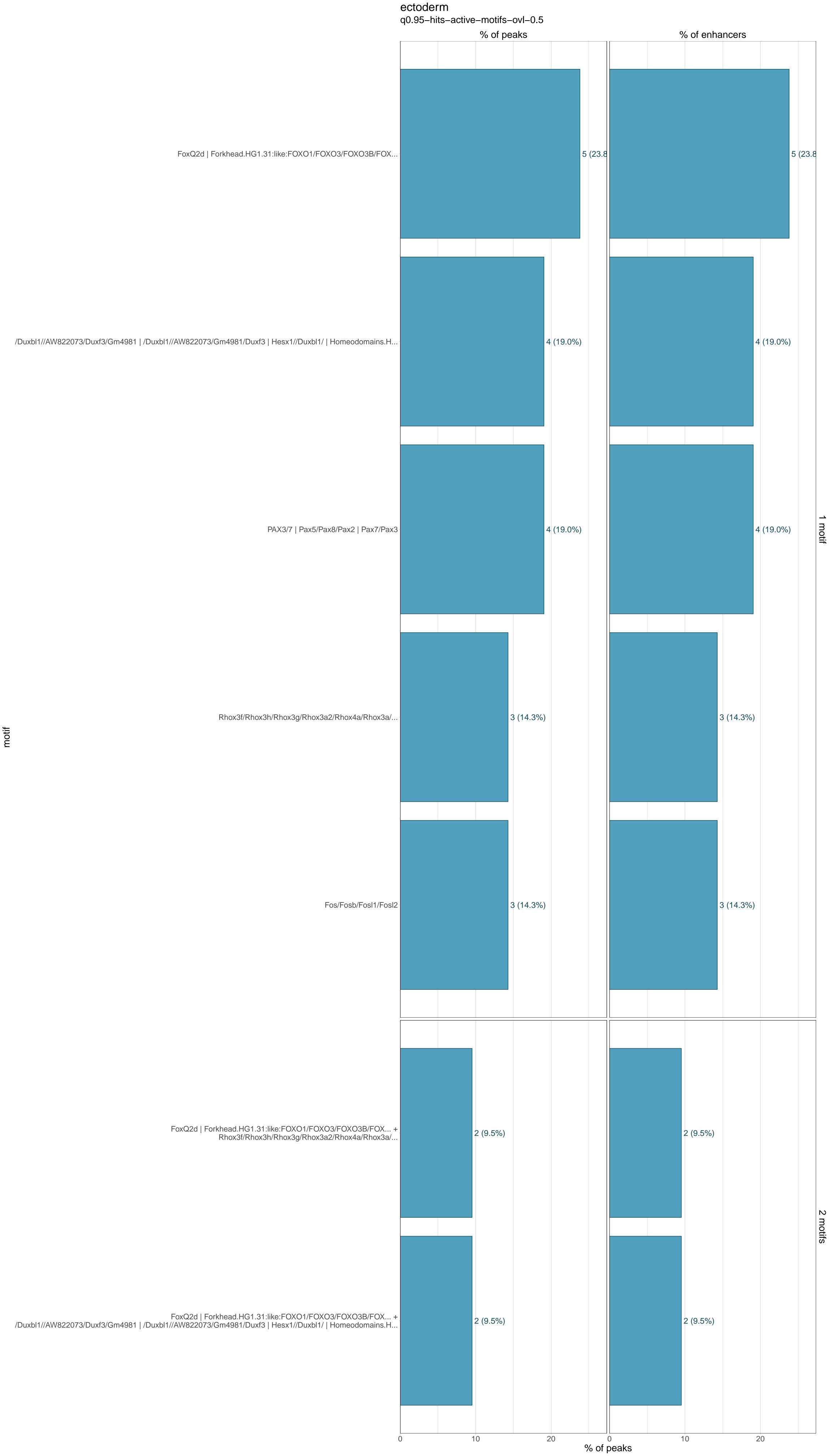


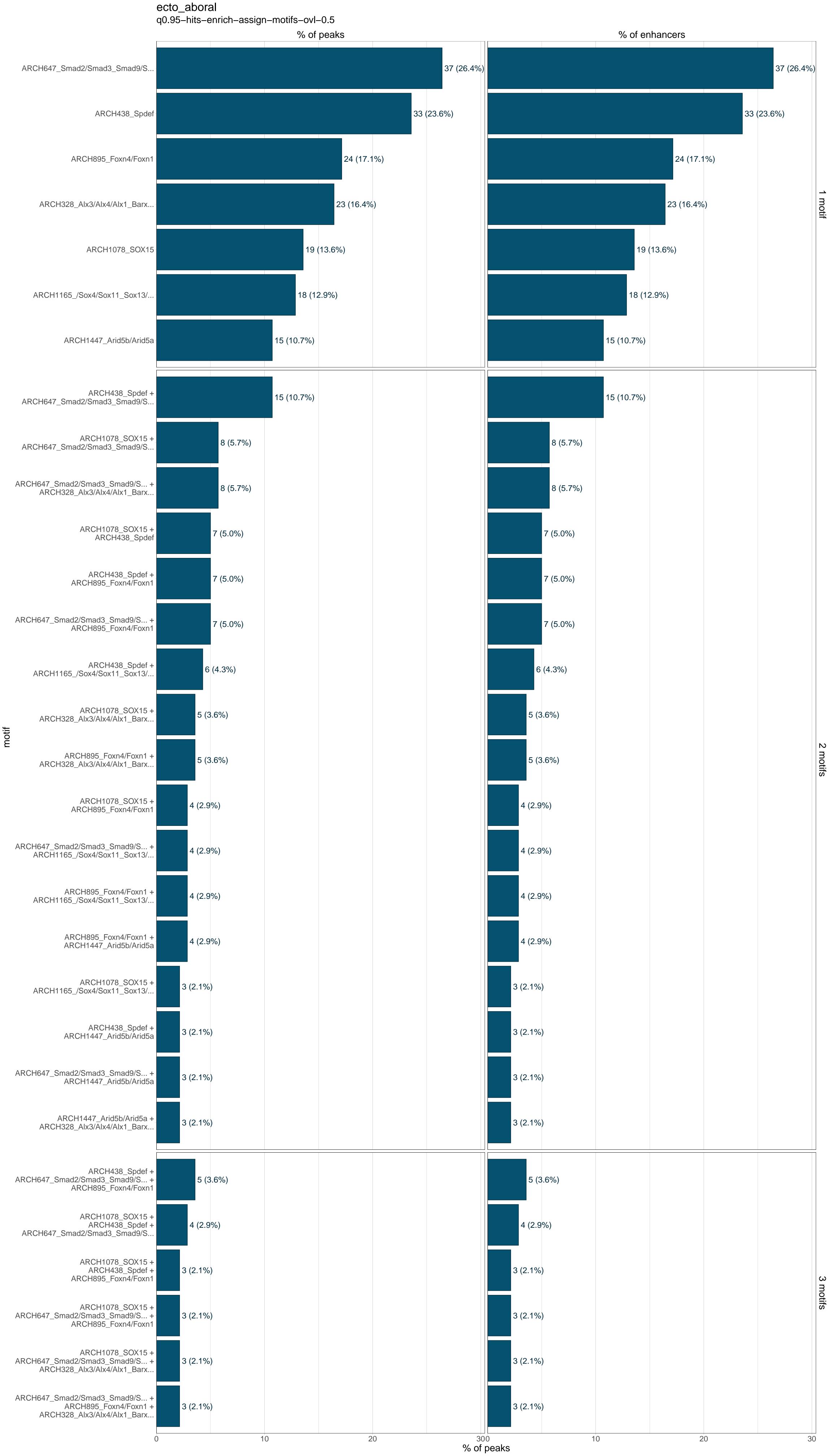




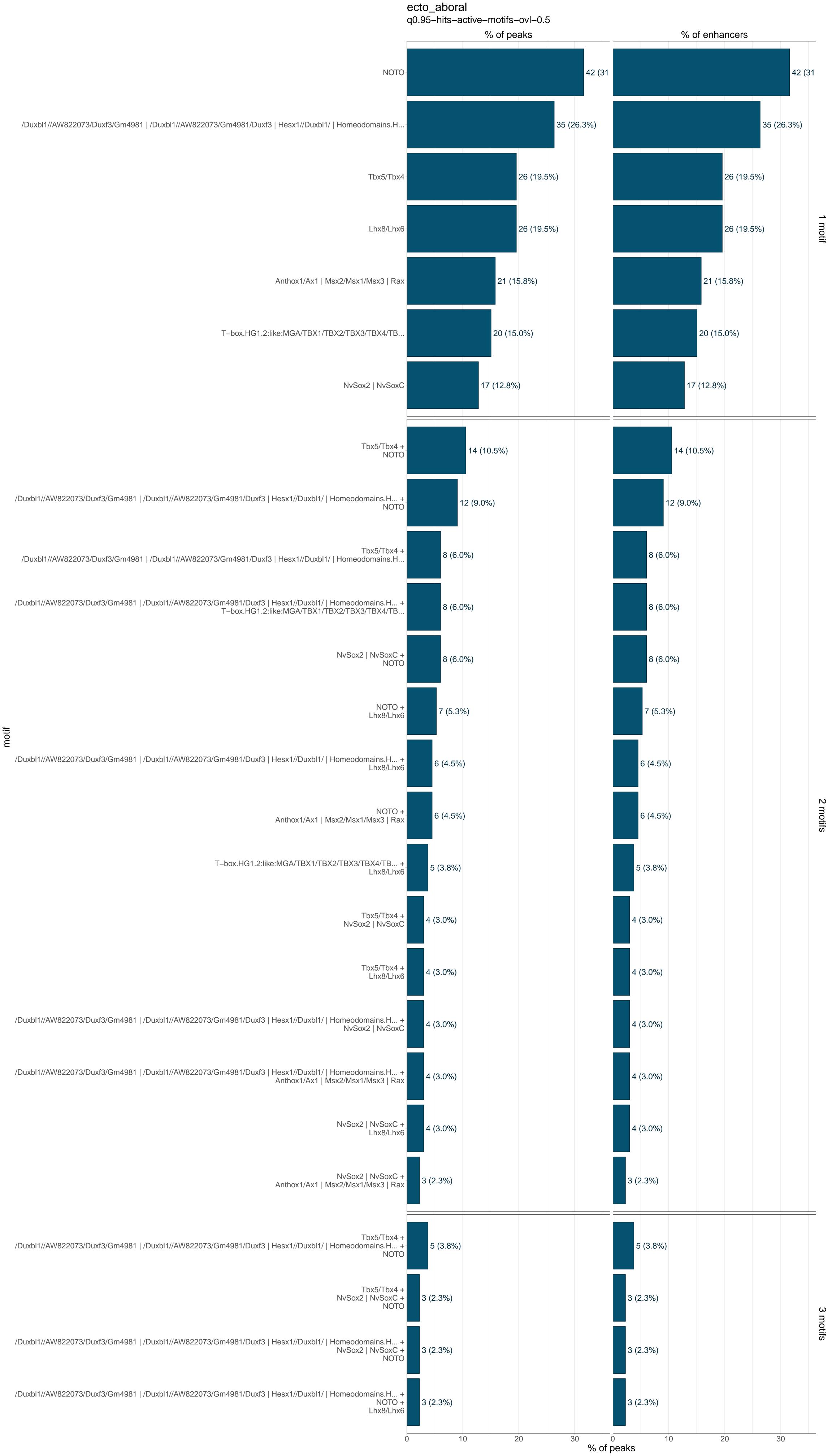




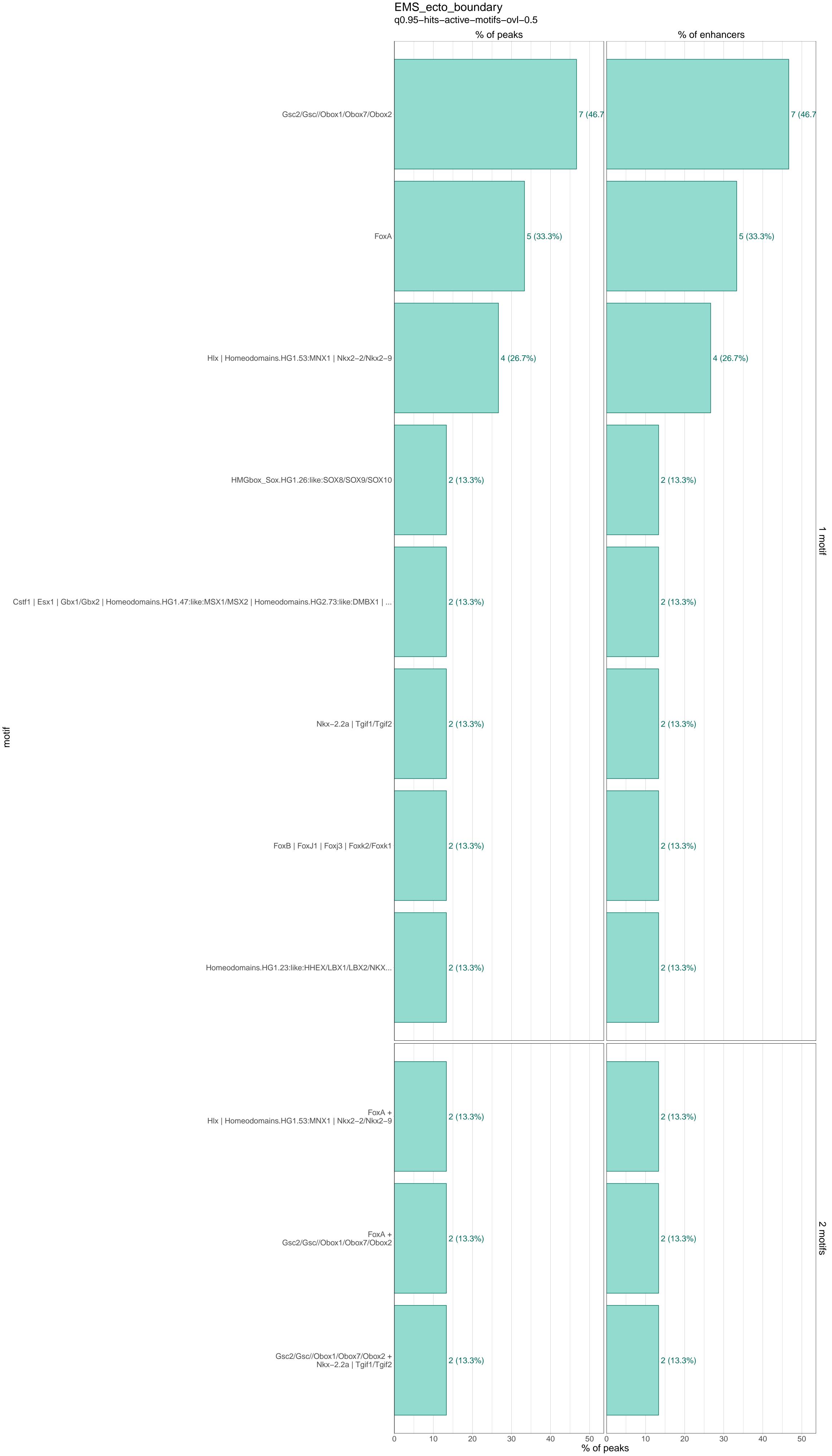




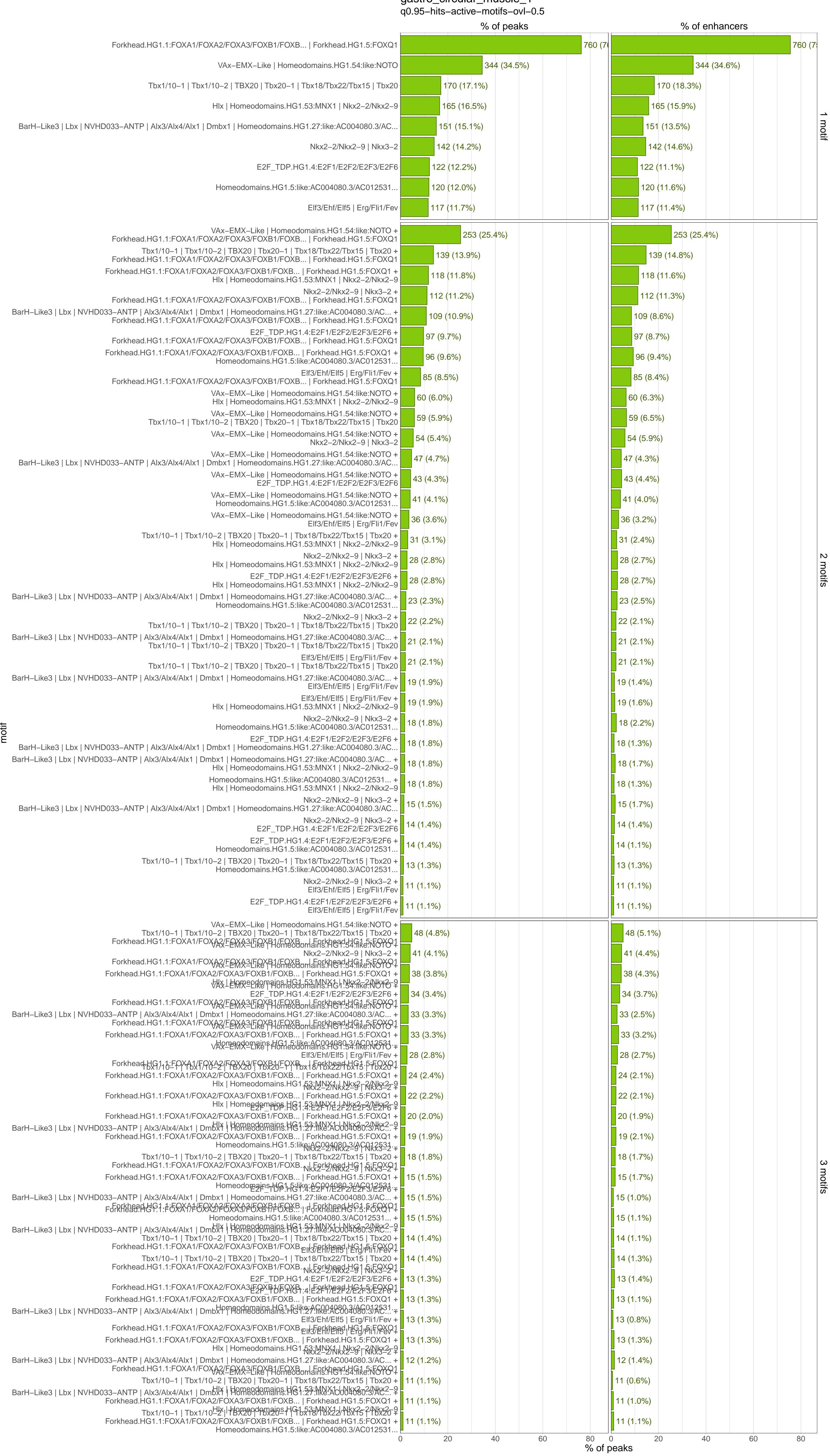
ecto\_aboral q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 51 (37 51 (37 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... 45 (32.6%) 45 (32.6%) Tbx5/Tbx4 38 (27.5%) 38 (27.5%) Lhx8/Lhx6 37 (26.8%) 37 (26.8%) NOTO 28 (20.3%) 28 (20.3%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax 24 (17.4%) 24 (17.4%) Islet | Vsx1/Vsx2 20 (14.5%) 20 (14.5%) FoxQ2a motif 17 (12.3%) T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB.. 17 (12.3%) NvSox2 | NvSoxC 17 (12.3%) 17 (12.3%) 16 (11.6%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... 16 (11.6%) 15 (10.9%) 15 (10.9%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... 15 (10.9%) 15 (10.9%) Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... 14 (10.1%) 14 (10.1%) 14 (10.1%) Homeodomains.HG1.27:like:AC004080.3/AC01253... 14 (10.1%) Tbx5/Tbx4 + 18 (13.0%) 18 (13.0%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H.. Tbx5/Tbx4 + 17 (12.3%) 17 (12.3%) NOTO Tbx5/Tbx4 + 13 (9.4%) 13 (9.4%) Lhx8/Lhx6 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 13 (9.4%) 13 (9.4%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 13 (9.4%) 13 (9.4%) Lhx8/Lhx6 NOTO + 10 (7.2%) 10 (7.2%) Lhx8/Lhx6 FoxQ2a + 8 (5.8%) 8 (5.8%) NOTO Tbx5/Tbx4 + 8 (5.8%) 8 (5.8%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 8 (5.8%) 8 (5.8%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 7 (5.1%) 7 (5.1%) T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 7 (5.1%) 7 (5.1%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 7 (5.1%) 7 (5.1%) Islet | Vsx1/Vsx2 NOTO + 7 (5.1%) 7 (5.1%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax Lhx8/Lhx6 + 7 (5.1%) 7 (5.1%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax Islet | Vsx1/Vsx2 + 7 (5.1%) 7 (5.1%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax FoxQ2a + 6 (4.3%) 6 (4.3%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... FoxQ2a + 6 (4.3%) 6 (4.3%) Lhx8/Lhx6 Tbx5/Tbx4 +6 (4.3%) 6 (4.3%) Homeodomains.HG1.27:like:AC004080.3/AC01253... Tbx5/Tbx4 + 6 (4.3%) 6 (4.3%) Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/... Tbx5/Tbx4 + 6 (4.3%) 6 (4.3%) Islet | Vsx1/Vsx2 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 6 (4.3%) 6 (4.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 6 (4.3%) 6 (4.3%) Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/... T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB... + 6 (4.3%) 6 (4.3%) Lhx8/Lhx6 NvSox2 | NvSoxC + 6 (4.3%) 6 (4.3%) NOTO NOTO + 6 (4.3%) 6 (4.3%) Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/.. Tbx5/Tbx4 + 5 (3.6%) 5 (3.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... Tbx5/Tbx4 +5 (3.6%) 5 (3.6%) NvSox2 | NvSoxC Tbx5/Tbx4 + 5 (3.6%) 5 (3.6%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 5 (3.6%) 5 (3.6%) NvSox2 | NvSoxC /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 5 (3.6%) 5 (3.6%) motifs Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2. NOTO + 5 (3.6%) 5 (3.6%) Islet | Vsx1/Vsx2 Homeodomains.HG1.27:like:AC004080.3/AC01253... + 5 (3.6%) 5 (3.6%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax FoxQ2a + 4 (2.9%) 4 (2.9%) Tbx5/Tbx4 FoxQ2a + 4 (2.9%) 4 (2.9%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax Tbx5/Tbx4 + 4 (2.9%) 4 (2.9%) T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB... Tbx5/Tbx4 +4 (2.9%) 4 (2.9%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2. NvSox2 | NvSoxC + 4 (2.9%) 4 (2.9%) Lhx8/Lhx6 NvSox2 | NvSoxC + 4 (2.9%) 4 (2.9%) Islet | Vsx1/Vsx2 Lhx8/Lhx6 + 4 (2.9%) 4 (2.9%) Islet | Vsx1/Vsx2 FoxQ2a + 3 (2.2%) 3 (2.2%) Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/... FoxQ2a + 3 (2.2%) 3 (2.2%) Islet | Vsx1/Vsx2 /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 3 (2.2%) Homeodomains.HG1.27:like:AC004080.3/AC01253. Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 3 (2.2%) 3 (2.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 3 (2.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... 3 (2.2%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB... + 3 (2.2%) 3 (2.2%) NvSox2 | NvSoxC T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB... + 3 (2.2%) T-box.HG1.2:like:MGA/TBX1/TBX2/TBX3/TBX4/TB... + 3 (2.2%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax NvSox2 | NvSoxC + 3 (2.2%) 3 (2.2%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2. NvSox2 | NvSoxC + 3 (2.2%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax NOTO + 3 (2.2%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... 3 (2.2%) 3 (2.2%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX. Lhx8/Lhx6 + 3 (2.2%) 3 (2.2%) Homeodomains.HG1.27:like:AC004080.3/AC01253. Lhx8/Lhx6 + 3 (2.2%) Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 3 (2.2%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 3 (2.2%) 3 (2.2%) Homeodomains.HG1.27:like:AC004080.3/AC01253. FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 3 (2.2%) Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/.. Homeodomains.HG1.27:like:AC004080.3/AC01253... + 3 (2.2%) 3 (2.2%) Islet | Vsx1/Vsx2 Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/... + 3 (2.2%) Islet | Vsx1/Vsx2 Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/Rhox3a/... + 3 (2.2%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax | 6 (4.3%) 6 (4.3%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 6 (4.3%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 6 (4.3%) 5 (3.6%) 5 (3.6%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 5 (3.6%) NOTO + 5 (3.6%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains/ 5 (3.6%) 5 (3.6%) NOTO + Tbx5/8/244x8 4 (2.9%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 4 (2.9%) Rhox3f/Rhox3h/Rhox3g/Rhox3a2/Rhox4a/RPXQ3a/.+ 3 (2.2%) 3 (2.2%) Tbx5/Tbx4 + 1Tbx5/Tbx4 + 3 (2.2%) 3 (2.2%) motifs Fox QQ TO 3 (2.2%) 3 (2.2%) NOTO + Anthox1/Ax1 | Msx2/Msx17/Msx3/3 PXFax 3 (2.2%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 3 (2.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/PSXTPX4... /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 3 (2.2%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO85/FOX4.: /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hesx1//Duxbl1/ | Homeodomains.H... + 3 (2.2%) 3 (2.2%) Islet Tbx5x1bx6x2 3 (2.2%) 3 (2.2%) NOTO + /Duxbla/66/108229730R4x636670428/01x6D0x6210/A6/8226736G0749615/P10xf3515H1R8xe1010/124012/Hdgreeddggaaies-162.+ NOTO + 3 (2.2%) /Duxbl1//AW822073/Duxf3/Gm4981 | /Duxbl1//AW822073/Gm4981/Duxf3 | Hespert / Mespert / 3 (2.2%) Lhx8/Lhx6 + 3 (2.2%) Anthox1/Ax1 | Msx2/Msx1/MsXQTRax Lhx8/Lhx6 + 3 (2.2%) Anthox1/Ax1 | Msx2/Msx1/Msx3 | Rax 40 10 20 30 40 0 10 20 30 % of peaks



**EMS** q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 781 (7 781 (7 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 408 (39.2%) 408 (39.2%) Gsc2/Gsc//Obox1/Obox7/Obox2 306 (29.4%) 306 (29.4%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev 260 (25.0%) 260 (25.0%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO 223 (21.4%) 223 (21.4%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:.. 1 motif 204 (19.6%) 204 (19.6%) Tbx5/Tbx4 181 (17.4%) Hand2 | Msgn1/Mesp2/Mesp1 181 (17.4%) Nkx-2.2a | Tgif1/Tgif2 179 (17.2%) 179 (17.2%) 175 (16.8%) 175 (16.8%) Six4/5 | Hnf1a/Hnf1b 159 (15.3%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... 159 (15.3%) 130 (12.5%) 130 (12.5%) zf-C4\_Nuclear\_receptors.HG1.25:like:NR2F1/N... Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 118 (11.3%) 118 (11.3%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 311 (29.9%) 311 (29.9%) Gsc2/Gsc//Obox1/Obox7/Obox2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 218 (20.9%) 218 (20.9%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 192 (18.4%) 192 (18.4%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 164 (15.8%) 164 (15.8%) 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 + 154 (14.8%) 154 (14.8%) Tbx5/Tbx4 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 140 (13.4%) 140 (13.4%) Nkx-2.2a | Tgif1/Tgif2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 130 (12.5%) 130 (12.5%) Hand2 | Msgn1/Mesp2/Mesp1 Six4/5 | Hnf1a/Hnf1b + 129 (12.4%) 129 (12.4%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 109 (10.5%) 109 (10.5%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC.. Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 109 (10.5%) 109 (10.5%) Gsc2/Gsc//Obox1/Obox7/Obox2 zf-C4 Nuclear receptors.HG1.25:like:NR2F1/N... + 93 (8.9%) 93 (8.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 90 (8.6%) 90 (8.6%) Gsc2/Gsc//Obox1/Obox7/Obox2 Gsc2/Gsc//Obox1/Obox7/Obox2 + 83 (8.0%) 83 (8.0%) Tbx5/Tbx4 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 80 (7.7%) 80 (7.7%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 Six4/5 | Hnf1a/Hnf1b + 79 (7.6%) 79 (7.6%) Gsc2/Gsc//Obox1/Obox7/Obox2 Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 72 (6.9%) 72 (6.9%) 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:... + 71 (6.8%) 71 (6.8%) 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:... + 71 (6.8%) 71 (6.8%) Gsc2/Gsc//Obox1/Obox7/Obox2 Gsc2/Gsc//Obox1/Obox7/Obox2 + 66 (6.3%) 66 (6.3%) Hand2 | Msgn1/Mesp2/Mesp1 BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 60 (5.8%) 60 (5.8%) Gsc2/Gsc//Obox1/Obox7/Obox2 Nkx-2.2a | Tgif1/Tgif2 + 59 (5.7%) 59 (5.7%) Gsc2/Gsc//Obox1/Obox7/Obox2 Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 57 (5.5%) 57 (5.5%) Hand2 | Msgn1/Mesp2/Mesp1 Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 57 (5.5%) 57 (5.5%) 2 Tbx5/Tbx4 motifs Six4/5 | Hnf1a/Hnf1b + 51 (4.9%) 51 (4.9%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 50 (4.8%) 50 (4.8%) Tbx5/Tbx4 BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 48 (4.6%) 48 (4.6%) 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:... + 48 (4.6%) 48 (4.6%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 48 (4.6%) 48 (4.6%) Nkx-2.2a | Tgif1/Tgif2 zf-C4\_Nuclear\_receptors.HG1.25:like:NR2F1/N... + 45 (4.3%) 45 (4.3%) Gsc2/Gsc//Obox1/Obox7/Obox2 VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 45 (4.3%) 45 (4.3%) Nkx-2.2a | Tgif1/Tgif2 Six4/5 | Hnf1a/Hnf1b + 40 (3.8%) 40 (3.8%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 40 (3.8%) 40 (3.8%) Hand2 | Msgn1/Mesp2/Mesp1 Six4/5 | Hnf1a/Hnf1b + 39 (3.7%) 39 (3.7%) 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... + 39 (3.7%) 39 (3.7%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 39 (3.7%) 39 (3.7%) Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 38 (3.7%) 38 (3.7%) Nkx-2.2a | Tgif1/Tgif2 Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 38 (3.7%) 38 (3.7%) Hand2 | Msgn1/Mesp2/Mesp1 zf-C4\_Nuclear\_receptors.HG1.25:like:NR2F1/N... + 37 (3.6%) 37 (3.6%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev zf-C4\_Nuclear\_receptors.HG1.25:like:NR2F1/N... + 35 (3.4%) 35 (3.4%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Tbx1/10-1 | Tbx1/10-2 | TBX20 | Tbx20-1 | Tbx18/Tbx22/Tbx15 | Tbx20 + 35 (3.4%) 35 (3.4%) Gsc2/Gsc//Obox1/Obox7/Obox2 Hand2 | Msgn1/Mesp2/Mesp1 + 35 (3.4%) 35 (3.4%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 34 (3.3%) 34 (3.3%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 34 (3.3%) 34 (3.3%) Six4/5 | Hnf1a/Hnf1b + 33 (3.2%) 33 (3.2%) Hand2 | Msgn1/Mesp2/Mesp1 zf-C4\_Nuclear\_receptors.HG1.25:like:NR2F1/N... + 32 (3.1%) 32 (3.1%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO Nkx-2.2a | Tgif1/Tgif2 + Tbx5/Tbx4 32 (3.1%) 32 (3.1%) Nkx-2.2a | Tgif1/Tgif2 + 31 (3.0%) 31 (3.0%) Hand2 | Msgn1/Mesp2/Mesp1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 77 (7.4%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 77 (7.4%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXBsc2/Foskh@boxHc9boxFOXQdx2 70 (6.7%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 70 (6.7%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXBsc2/FoskH@boxHCOboxFOXQqx2 64 (6.1%) 64 (6.1%) Gsc2/Gsc//Obox1/Obox7/Obox2 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5TFOXX4 61 (5.9%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 61 (5.9%) Gsc2/Gscs/iQ4b/gx/1/4D/brbx/7/4/10/brbx2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 58 (5.6%) 58 (5.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXBsc2/FoskH@boxHCOboxFOXQqx2 51 (4.9%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 51 (4.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXAZ/FOX Nkx-2.2a | Tgif1/Tgif2 + 50 (4.8%) 50 (4.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXBsc2/FoskH@boxH09boxF0XQqx2 47 (4.5%) Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 47 (4.5%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | 西姆语语语语语言 Gsc2/Gsc//Obox1/Obox7/Obox2 + 47 (4.5%) 47 (4.5%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB.HarFob2kHVagrHCMesp20Mesp4 45 (4.3%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 45 (4.3%) motifs Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5 FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5 FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 43 (4.1%) 43 (4.1%) Gsc2/Gsc\$/iQ4b/gx/1/4D/b/bx/7/4/O/c/bx2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 38 (3.7%) 38 (3.7%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Edifa/febis/日本 38 (3.7%) 38 (3.7%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB.HanFob2khWagnHcMesp20Mesp4 37 (3.6%) 37 (3.6%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev + 37 (3.6%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 37 (3.6%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5TFOXA1/FOXA4 Msantd4/Mypop | Myb.HG1.21:like:MIER1/MIER2/MIER3/MTA1/MTA3 | Myb.HG1.23:TERB1/TERF2 | Myb.HG3.0:... + 36 (3.5%) 36 (3.5%) VAXCEMIXULLER INDEPRODUCTION 25 IN 6:5 ARIZED IND. TO 35 (3.4%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 35 (3.4%) Gsc2/Gscs/iQ4b/gx/1/40/b/bx/7/40/b/bx2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 33 (3.2%) 33 (3.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXAZ/FOXAZ/FOXBe/FOXBeodForkingaH.GIG545like)MQTQ 33 (3.2%) 33 (3.2%) VAx-EMX-Like | Homeodomains.HG1.54:like:NOTO + 31 (3.0%) BarH-Like3 | Lbx | NVHD033-ANTP | Alx3/Alx4/Alx1 | Dmbx1 | Homeodomains.HG1.27:like:AC004080.3/AC... + 31 (3.0%) Elf3/Ehf/Elf5 | Erg/Fli1/Fev 20 40 20 40 80 60 80 60 0 % of peaks



gastro\_circular\_muscle\_1 q0.95-hits-active-motifs-ovl-0.5



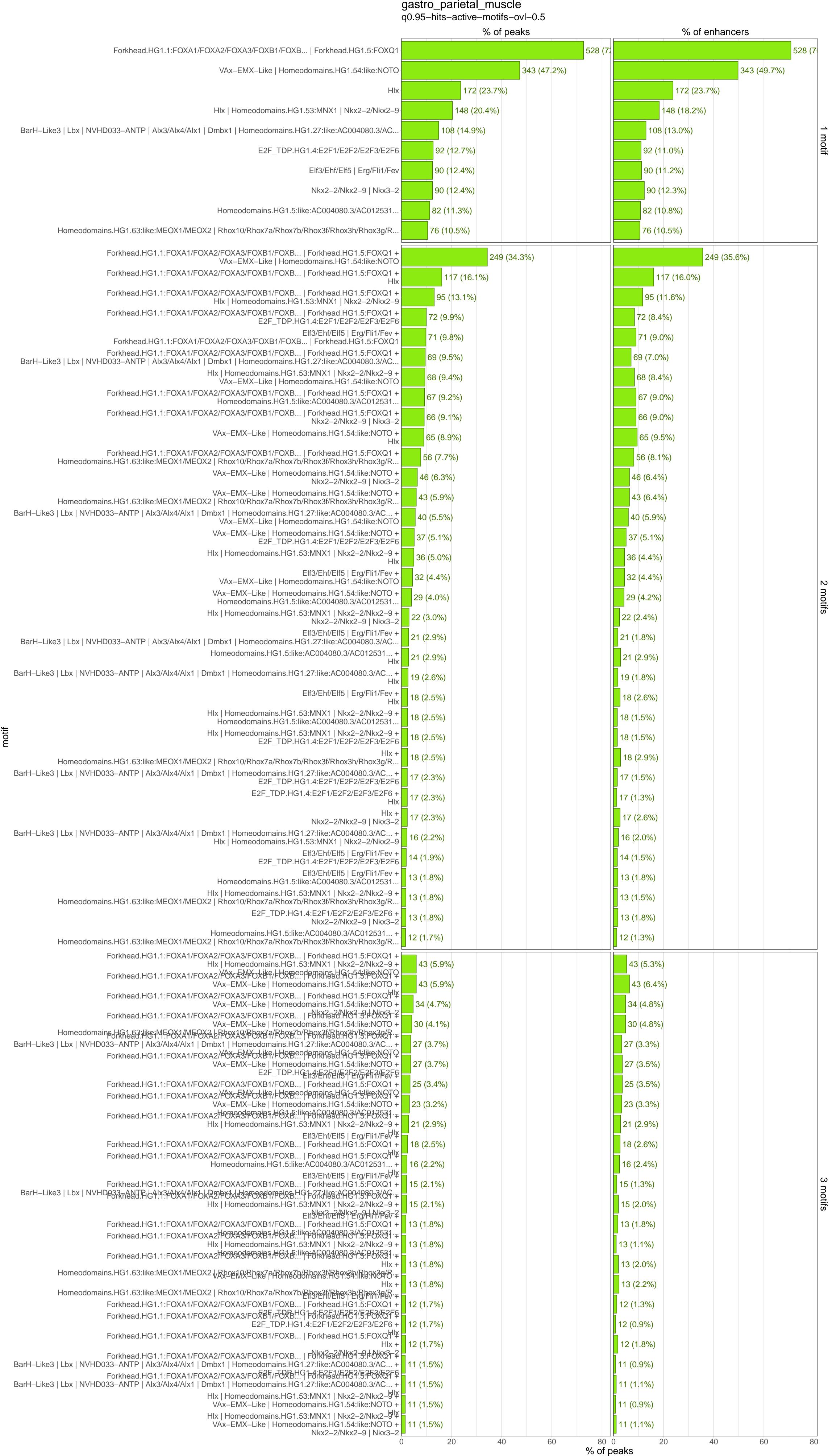
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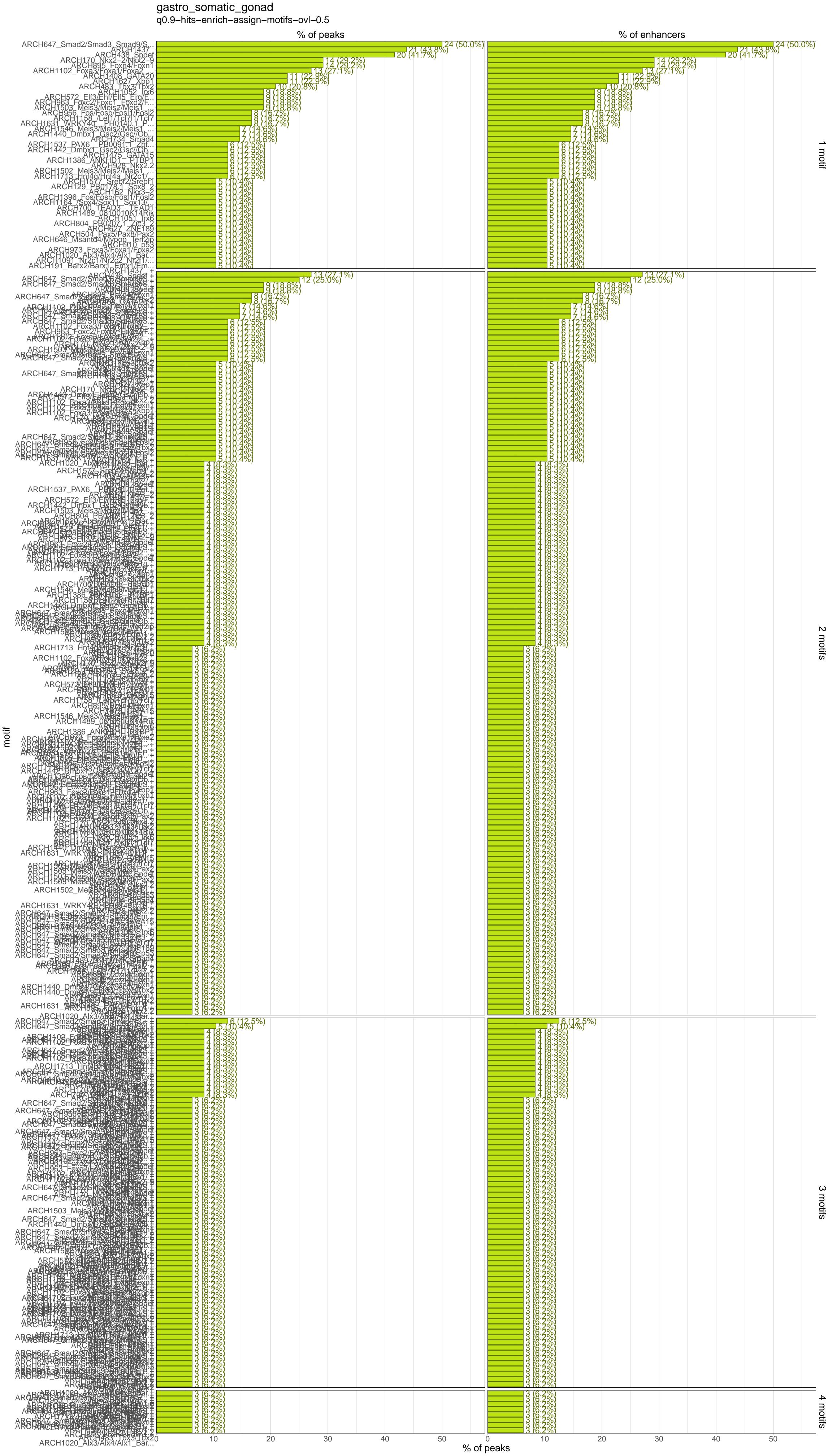


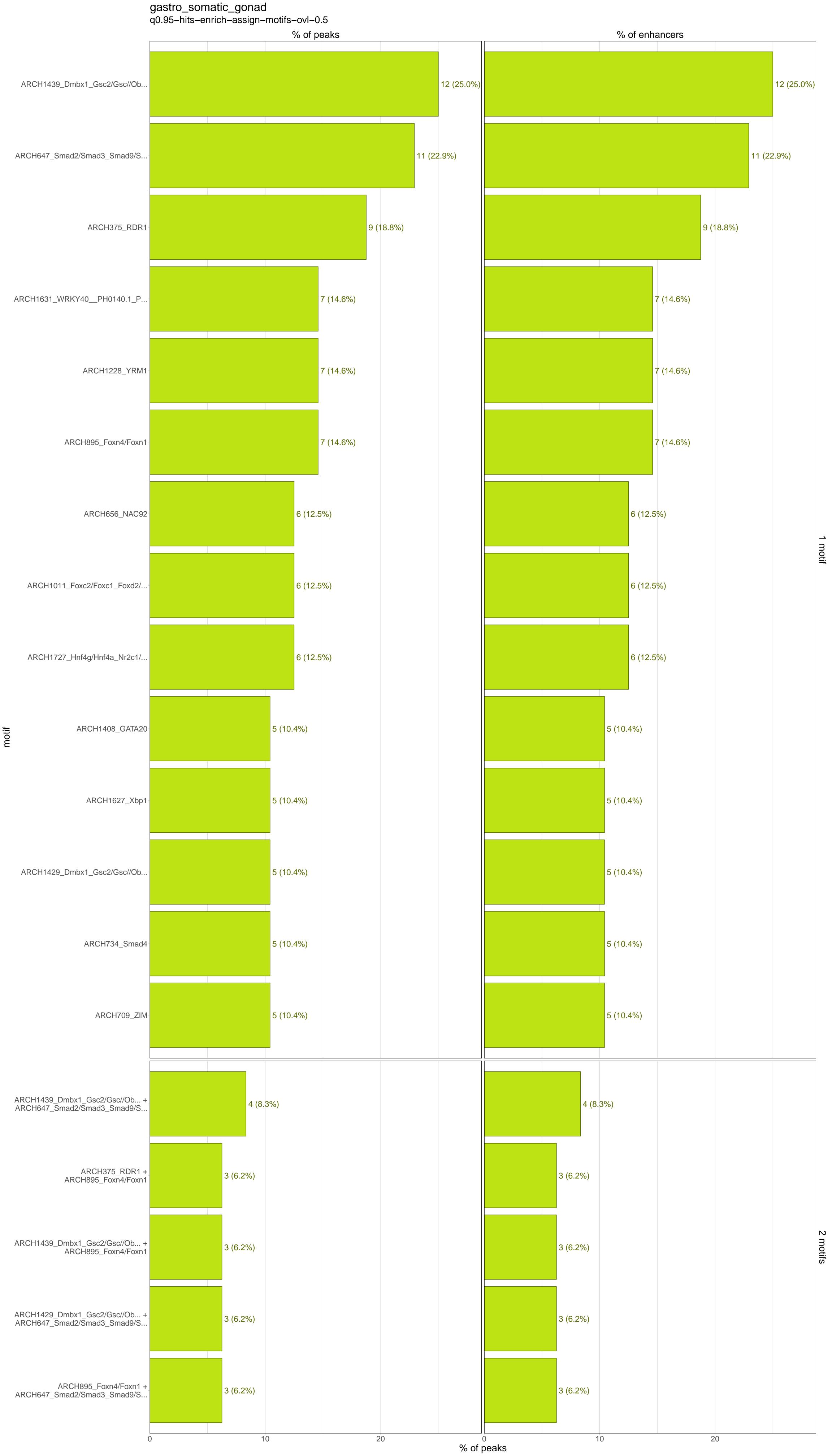
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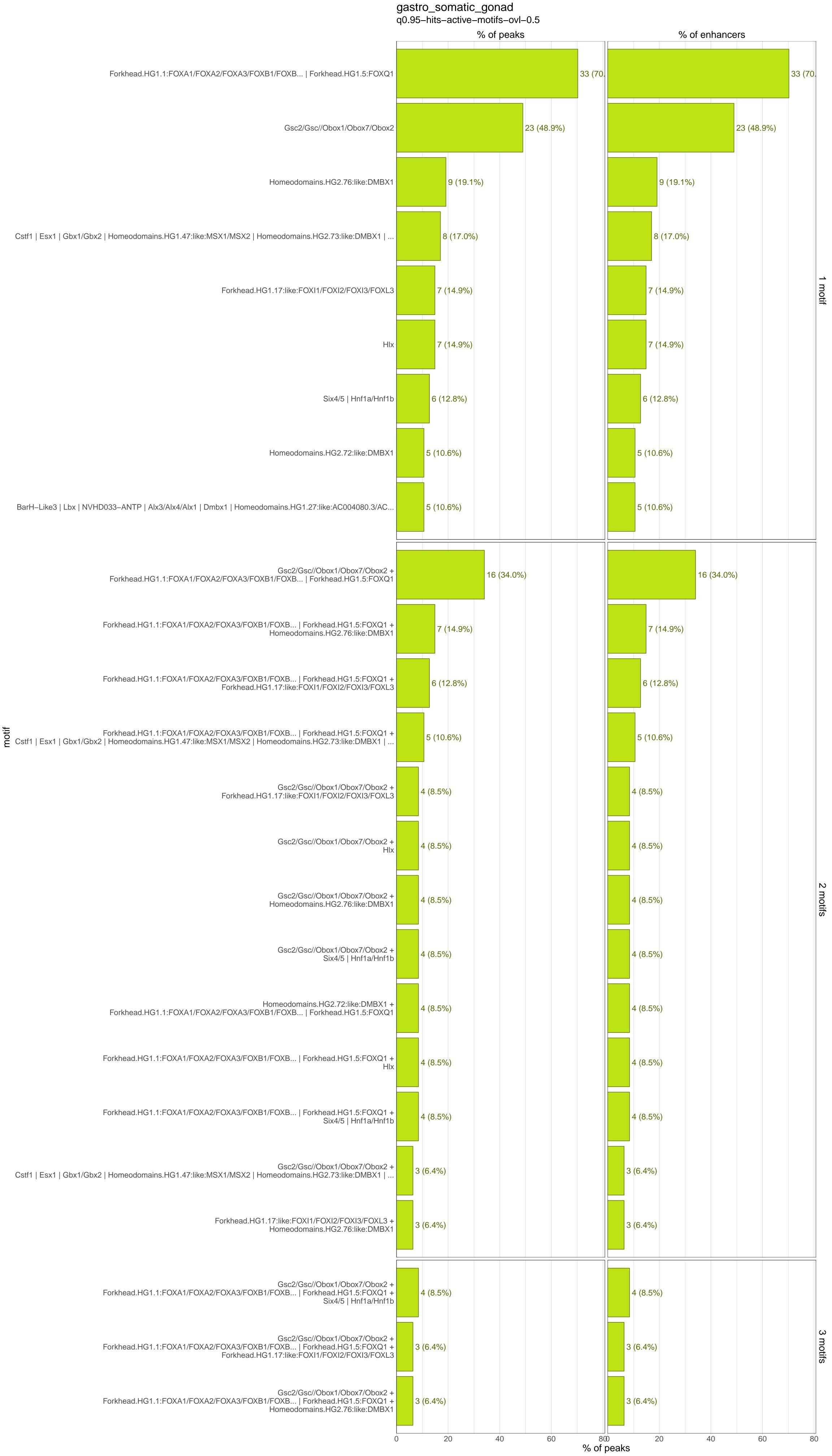


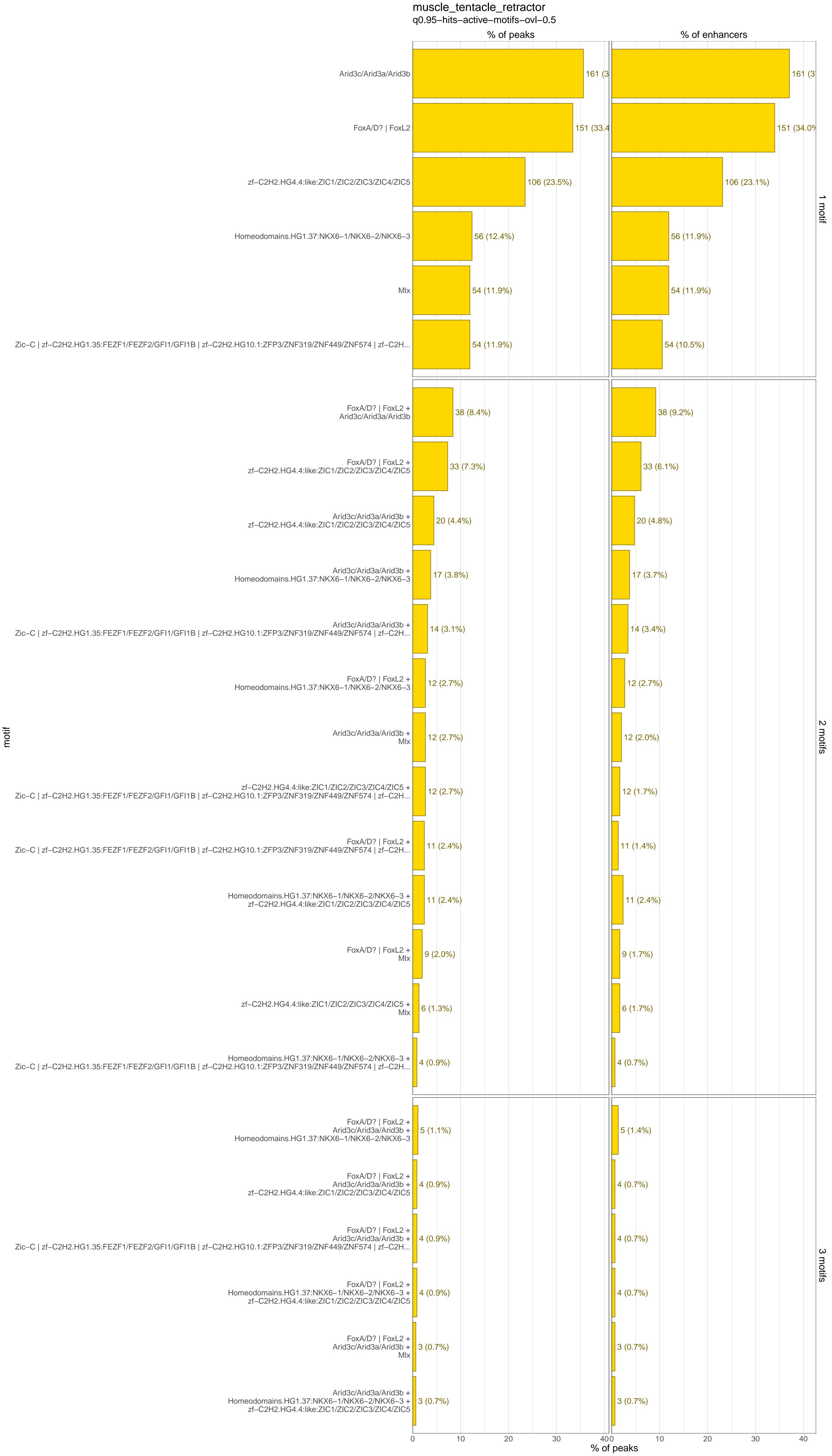
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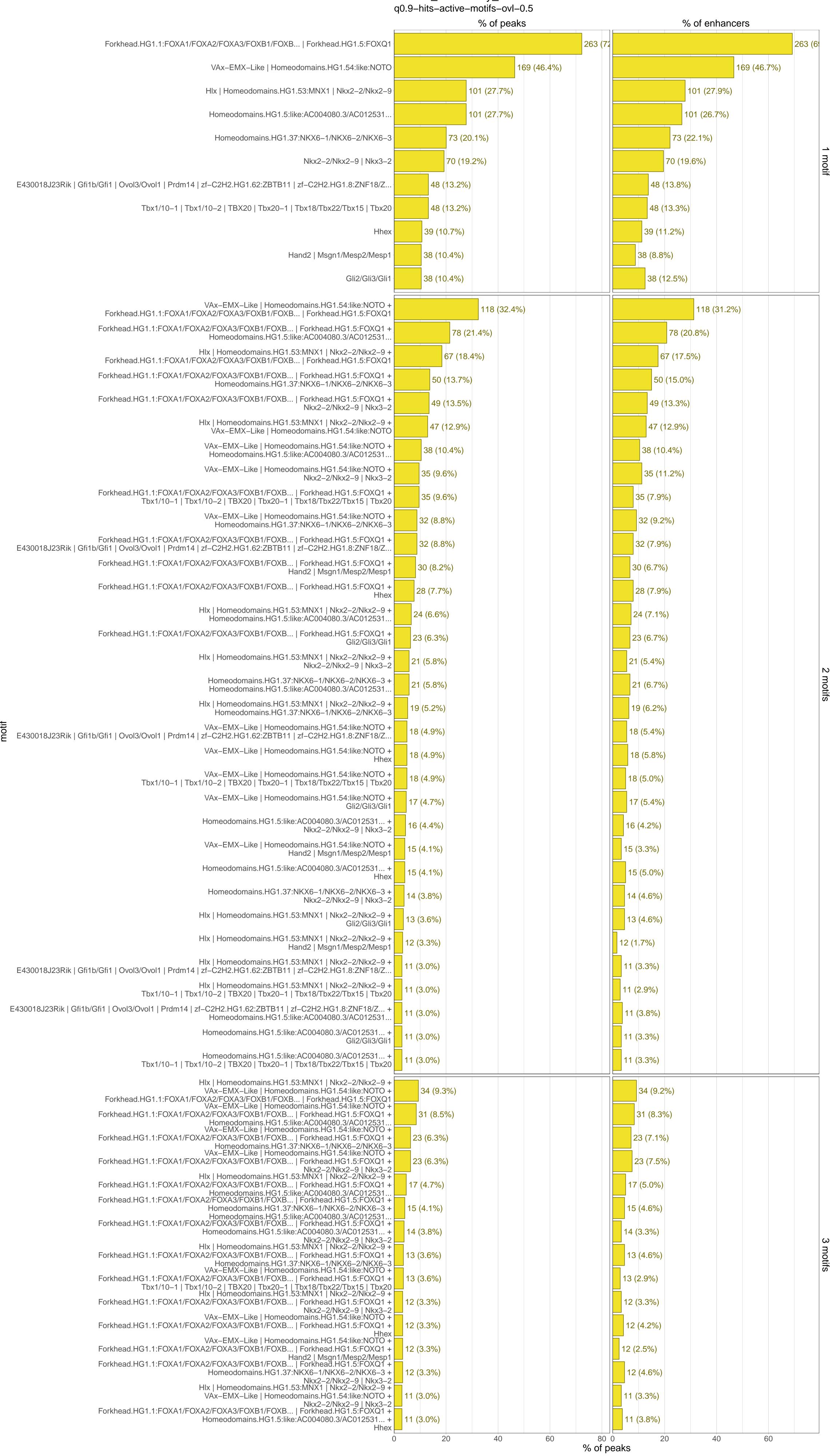


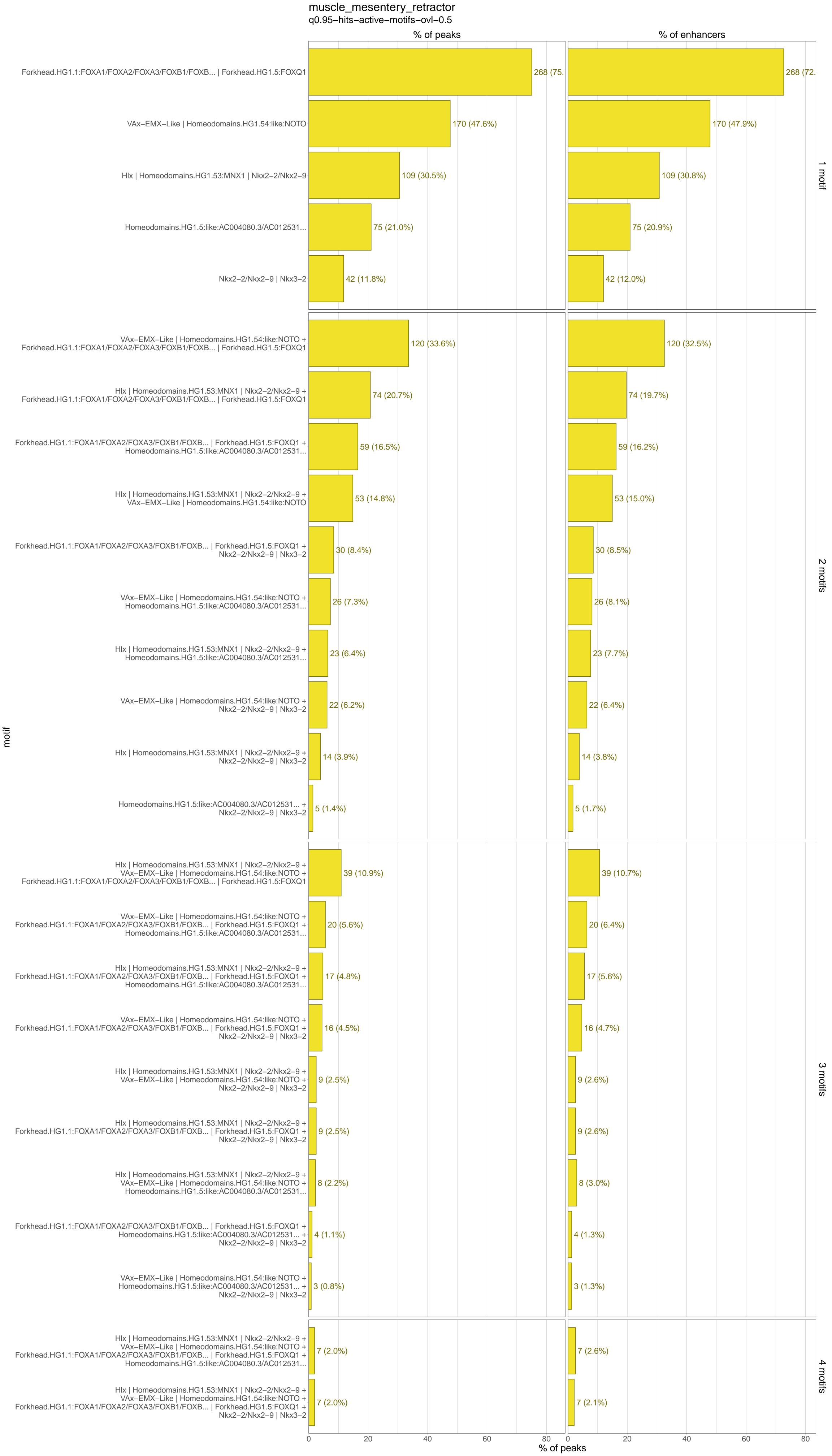








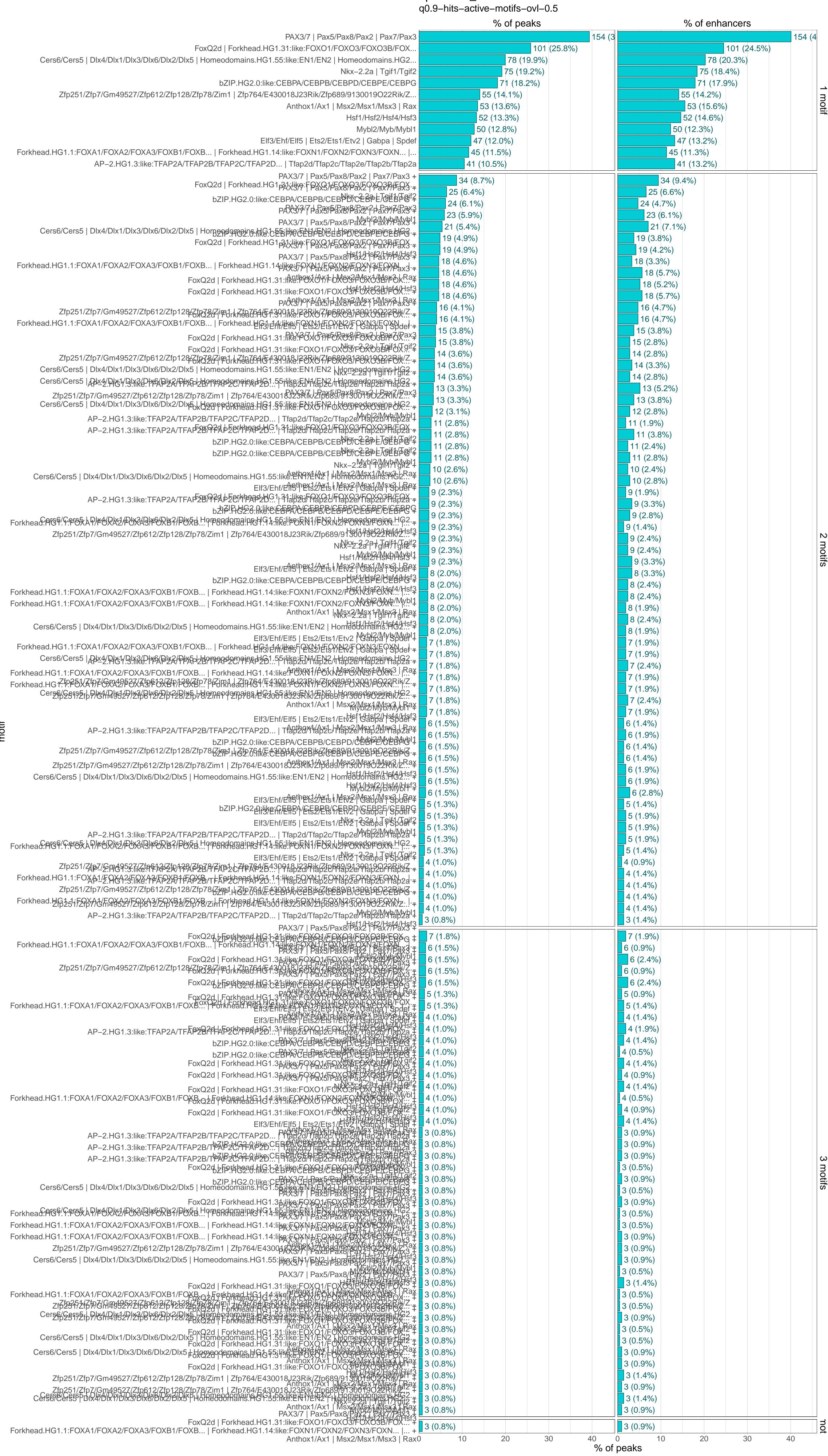






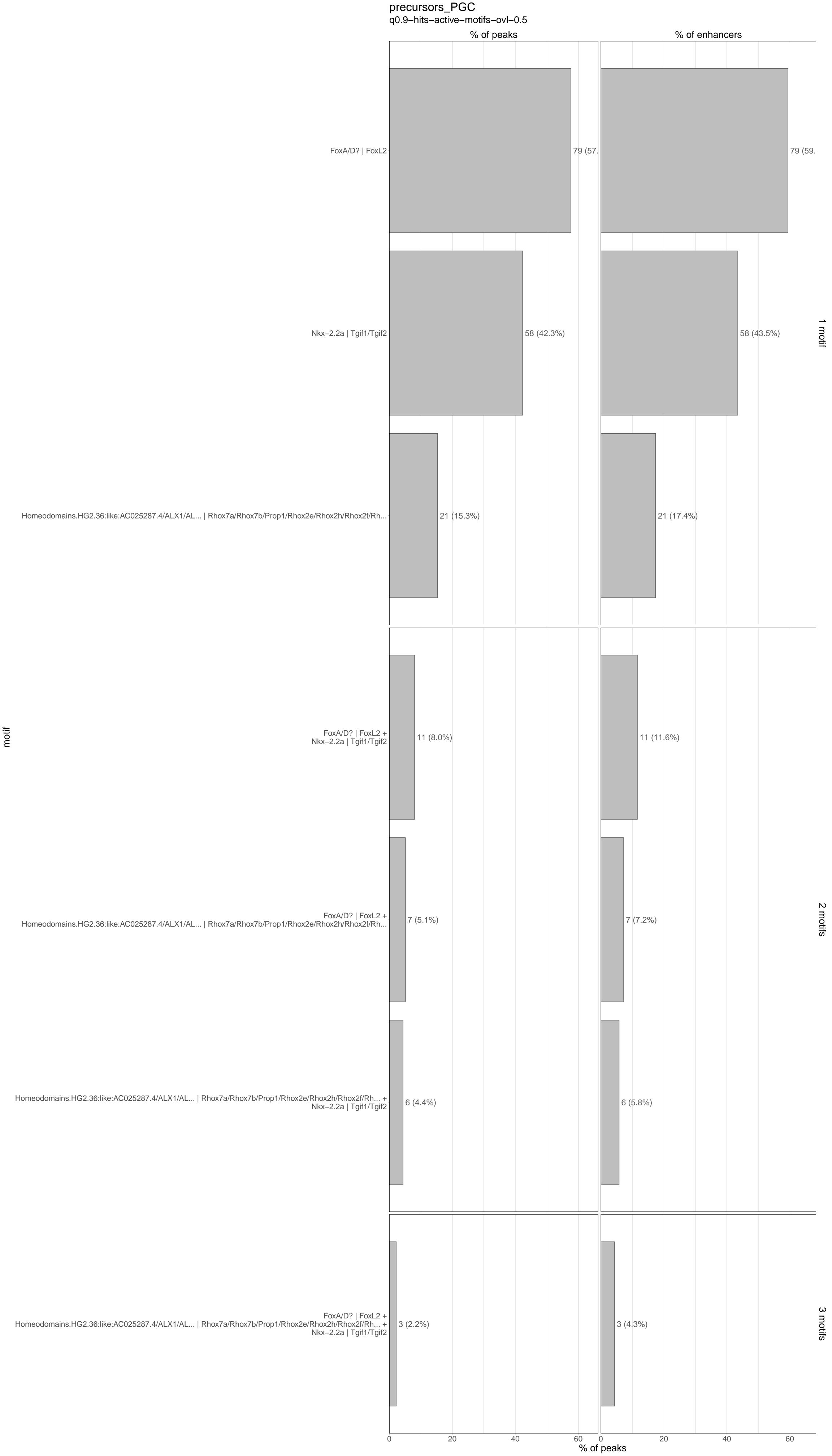
digestive\_filaments\_3 q0.95-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 253 (66.9 253 (63. Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 146 (38.6%) 146 (35.7%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 112 (29.6%) 112 (27.1%) Gsc2/Gsc//Obox1/Obox7/Obox2 105 (27.8%) 105 (26.6%) FoxA 1 motif 81 (21.4%) 81 (21.7%) HMGbox\_Sox.HG1.37:like:SSRP1 80 (24.6%) 80 (21.2%) Homeodomains.HG2.76:like:DMBX1 63 (16.7%) 63 (9.7%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 52 (13.5%) 52 (13.8%) HIX-51 (11.6%) 51 (13.5%) Forkhead.HG1.13:like:FOXN1/FOXN2/FOXN3/FOXN... 46 (12.2%) 46 (11.1%) Hopx Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 94 (24.9%) 94 (22.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 73 (19.3%) 73 (17.4%) Gsc2/Gsc//Obox1/Obox7/Obox2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 71 (18.8%) 71 (16.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 50 (13.2%) 50 (14.0%) Homeodomains.HG2.76:like:DMBX1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 49 (12.1%) 49 (13.0%) HMGbox\_Sox.HG1.37:like:SSRP1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 43 (6.3%) 43 (11.4%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 40 (10.1%) 40 (10.6%) Gsc2/Gsc//Obox1/Obox7/Obox2 FoxA + 40 (10.6%) 40 (9.2%) Gsc2/Gsc//Obox1/Obox7/Obox2 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 38 (10.1%) 38 (7.7%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 33 (8.7%) 33 (10.6%) Homeodomains.HG2.76:like:DMBX1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 32 (7.2%) 32 (8.5%) Forkhead.HG1.13:like:FOXN1/FOXN2/FOXN3/FOXN... Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 31 (8.2%) 31 (6.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 30 (7.9%) 30 (5.3%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 26 (6.9%) 26 (6.8%) HMGbox\_Sox.HG1.37:like:SSRP1 HMGbox\_Sox.HG1.37:like:SSRP1 + 24 (5.3%) 24 (6.3%) Gsc2/Gsc//Obox1/Obox7/Obox2 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 23 (3.4%) 23 (6.1%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 23 (6.1%) 23 (5.8%) Forkhead.HG1.13:like:FOXN1/FOXN2/FOXN3/FOXN... 2 motifs Homeodomains.HG2.76:like:DMBX1 + 23 (6.1%) 23 (7.2%) Gsc2/Gsc//Obox1/Obox7/Obox2 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 22 (5.8%) 22 (5.3%) Homeodomains.HG2.76:like:DMBX1 + 21 (5.6%) 21 (5.8%) HMGbox\_Sox.HG1.37:like:SSRP1 + 20 (5.3%) 20 (5.3%) FoxA Gsc2/Gsc//Obox1/Obox7/Obox2 + 20 (5.3%) 20 (5.3%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 17 (4.5%) 17 (4.3%) Homeodomains.HG2.76:like:DMBX1 + 17 (4.5%) 17 (4.3%) HMGbox Sox.HG1.37:like:SSRP1 FoxA + 17 (4.5%) 17 (4.8%) Hlx Gsc2/Gsc//Obox1/Obox7/Obox2 + 17 (4.5%) 17 (3.4%) Forkhead.HG1.13:like:FOXN1/FOXN2/FOXN3/FOXN... Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 16 (4.2%) 16 (2.9%) Gsc2/Gsc//Obox1/Obox7/Obox2 FoxA + 16 (4.2%) 16 (4.3%) Hopx Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 15 (2.9%) 15 (4.0%) HMGbox\_Sox.HG1.37:like:SSRP1 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 14 (3.7%) 14 (2.4%) Homeodomains.HG2.76:like:DMBX1 Homeodomains.HG2.76:like:DMBX1 + 12 (3.2%) 12 (1.9%) Gsc2/Gsc//Obox1/Obox7/Obox2 + 12 (3.2%) 12 (2.9%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 11 (2.9%) 11 (2.4%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 11 (2.9%) 11 (1.4%) Forkhead.HG1.13:like:FOXN1/FOXN2/FOXN3/FOXN... HMGbox\_Sox.HG1.37:like:SSRP1 + 11 (2.9%) 11 (1.9%) Hopx Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 29 (7.7%) 29 (5.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1+ 28 (7.4%) 28 (6.3%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 26 (6.9%) 26 (7.2%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 21 (7.2%) 21 (5.6%) Homeodomains. HG2.76:like: DMBX HIx | Homeodomains. HG1.53:MNX1 | Nkx2-2/Nkx2-9 16 (3.9%) 16 (4.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ114 Homeodomains.HG2.76:like:DMBX1 + 15 (4.0%) 15 (4.8%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB...T 15 (4.0%) 15 (3.4%) HMGbox\_Sox.HG1.37:like:SSRP1 + Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/N Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 14 (1.9%) 14 (3.7%) 14 (2.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 14 (3.7%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 3 motifs 14 (3.7%) 14 (3.4%) Homeodomains.HG2.76:like:DMBX1 + Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9+ Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 13 (3.4%) 13 (2.4%) HIX | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1 + 12 (2.9%) 12 (3.2%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 12 (3.2%) 12 (2.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB...1 12 (2.4%) Gsc2/Gsc//Obox1/Obox7/Obox2 + 12 (3.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1+ Gsc2/Gsc//Obox1/Obox7/Obox2 + 12 (2.9%) 12 (3.2%) Forkhead.HG1.13:like:FOXN1/FOXN2/FOXN3/FOXN... HIX | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + Homeodomains.HG2.76:like:DMBX1 + 11 (2.9%) 11 (3.4%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1+ Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 11 (1.9%) 11 (2.9%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.37:like:SSR/ 11 (1.9%) 11 (2.9%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.5:FOXQ1+ 11 (2.9%) 11 (2.9%) Homeodomains.HG2.76:like:DMBX1 + Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB1. Forkhead.HG1.37:like:SSRP1 11 (1.9%) HMGbox\_Sox.HG1.37:like:SSRP1 + 11 (2.9%) **FoxA** 40 20 60 20 40 60 % of peaks

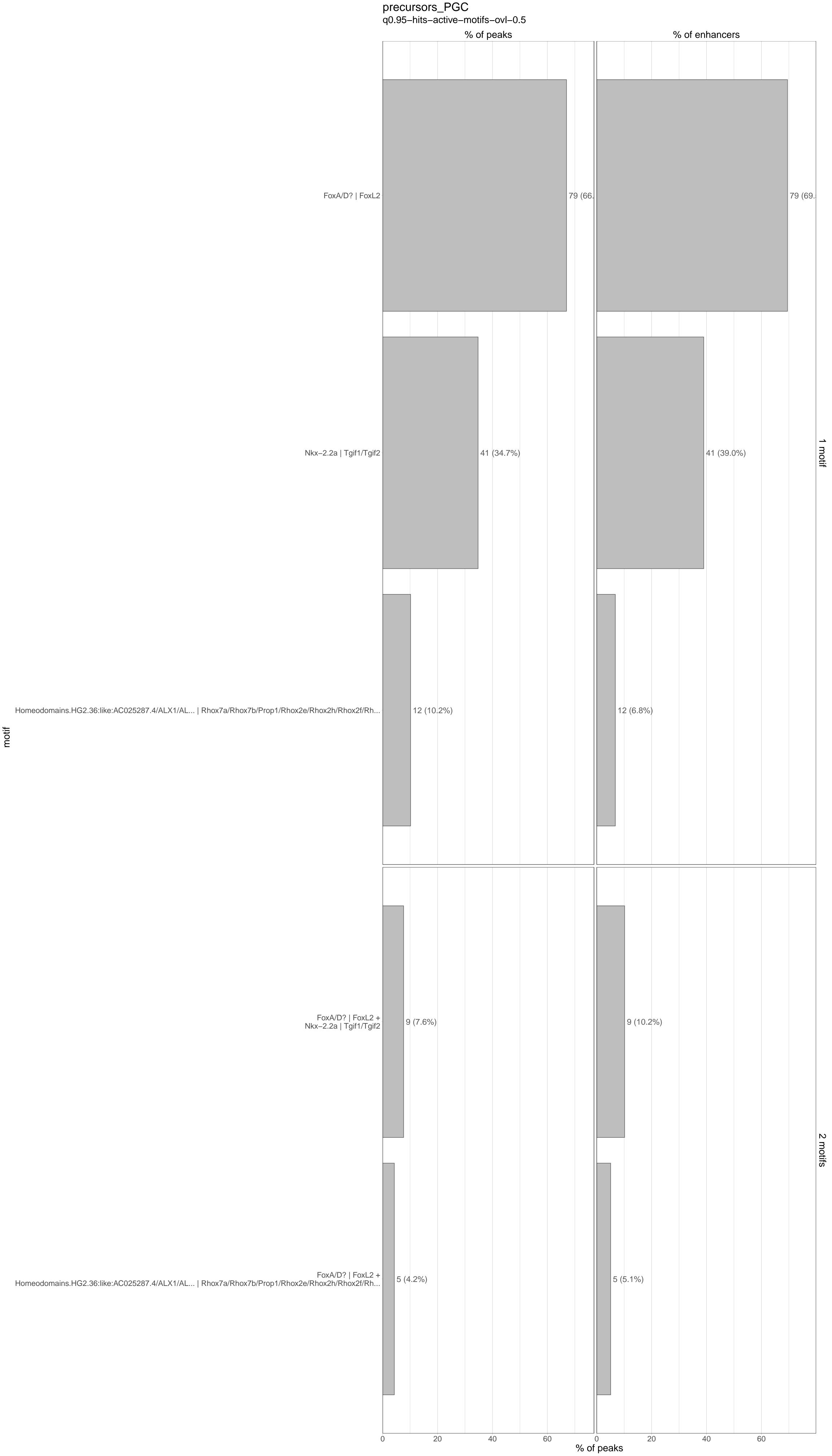
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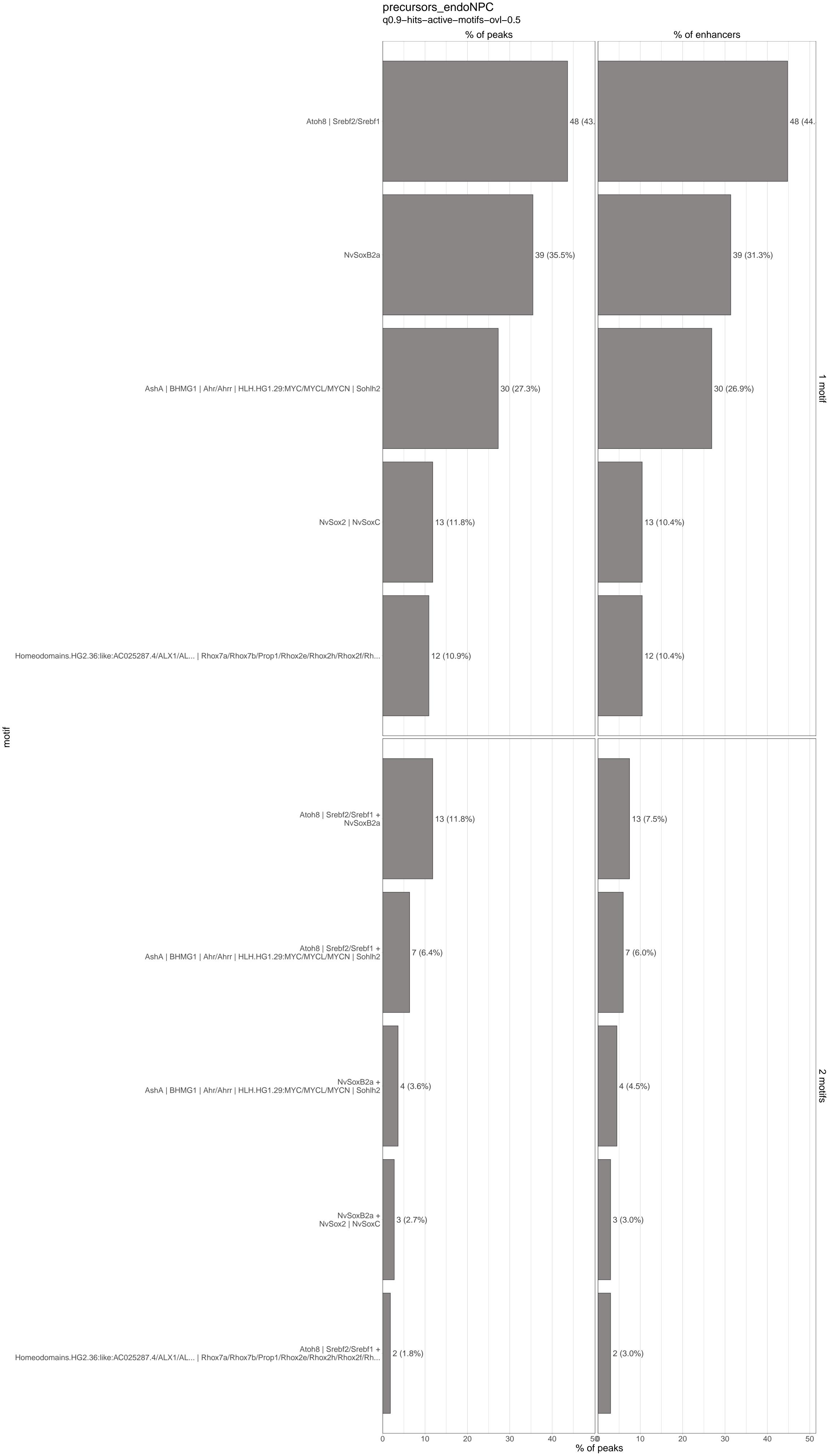




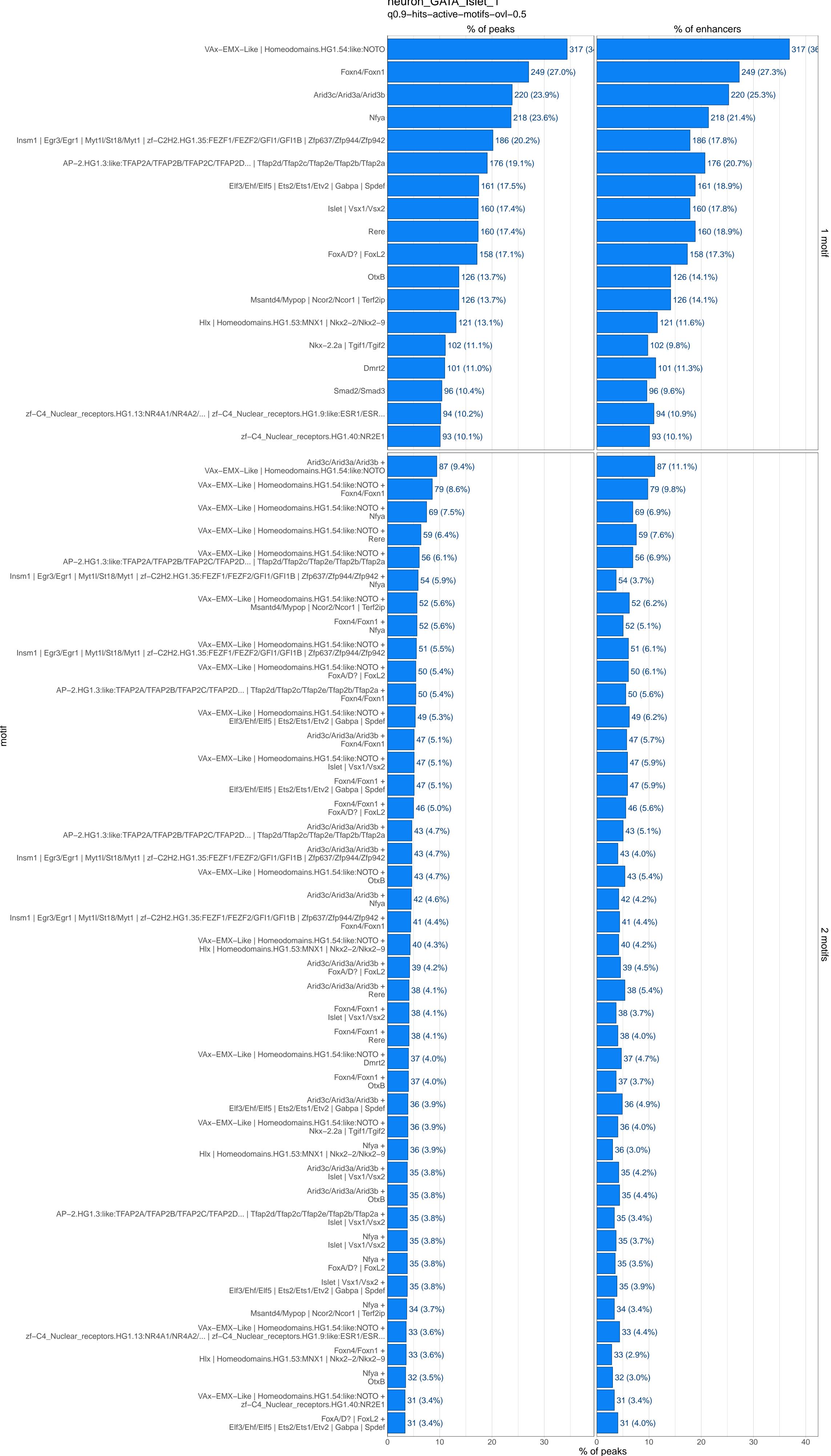
epidermis\_2 q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 355 (2 355 (2 PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 307 (24.2 307 (22.8%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 295 (21.9%) 295 (21.8%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... 224 (16.7%) 224 (16.8%) zf-C4\_Nuclear\_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4\_Nuclear\_receptors.HG1.9:like:ESR1/ESR... 216 (16.1%) 216 (17.3%) 215 (13.9%) Fos/Fosb/Fosl1/Fosl2 215 (16.0%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... 209 (15.5%) 209 (15.1%) 1 motif 203 (15.1%) 203 (14.6%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... Zfp239//Gm6020/Zfp51/Zfp553 183 (13.6%) 183 (14.2%) 183 (13.6%) 183 (14.0%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... 151 (11.2%) Nrf1 151 (12.0%) 147 (10.9%) 147 (10.8%) Anthox6/Ax6 Mlx 142 (10.6%) 142 (10.4%) 138 (10.3%) 138 (10.1%) AP-2.HG1.3:like:TFAP2A/TFAP2B/TFAP2C/TFAP2D... | Tfap2d/Tfap2c/Tfap2e/Tfap2b/Tfap2a FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 81 (6.0%) 81 (6.2%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 + 63 (4.7%) 63 (3.9%) 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 + 60 (4.5%) 60 (4.2%) 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... + 56 (4.2%) 56 (4.3%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 54 (4.0%) 54 (4.5%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 53 (3.9%) 53 (4.1%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 52 (3.9%) 52 (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 + 49 (3.6%) 49 (3.8%) zf-C4\_Nuclear\_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4\_Nuclear\_receptors.HG1.9:like:ESR1/ESR... PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 + 49 (3.6%) 49 (3.8%) Fos/Fosb/Fosl1/Fosl2 Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 48 (3.6%) 48 (3.3%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 Zfp239//Gm6020/Zfp51/Zfp553 + 47 (3.5%) 47 (3.1%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 zf-C4\_Nuclear\_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4\_Nuclear\_receptors.HG1.9:like:ESR1/ESR... + 46 (3.4%) 46 (3.9%) FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 45 (3.3%) 45 (3.1%) Fos/Fosb/Fosl1/Fosl2 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 44 (3.3%) 44 (3.3%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 42 (3.1%) 42 (3.2%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 42 (3.1%) 42 (3.3%) 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... + 42 (3.1%) 42 (3.4%) 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... + 41 (3.0%) 41 (3.2%) 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 + 40 (3.0%) 40 (2.9%) 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... + 40 (2.9%) 40 (3.0%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 2 39 (2.9%) 39 (3.1%) Zfp239//Gm6020/Zfp51/Zfp553 motifs Nrf1 + 37 (2.8%) 37 (3.4%) 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... + 37 (2.8%) 37 (2.7%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... zf-C4 Nuclear receptors.HG1.13:NR4A1/NR4A2/... | zf-C4 Nuclear receptors.HG1.9:like:ESR1/ESR... + 37 (2.8%) 37 (3.1%) 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 (2.8%) 37 (3.3%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 36 (2.7%) 36 (2.8%) Anthox6/Ax6 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 36 (2.7%) 36 (2.5%) Fos/Fosb/Fosl1/Fosl2 PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 + 35 (2.6%) 35 (2.7%) Anthox6/Ax6 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 34 (2.5%) 34 (2.8%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... 34 (2.5%) 34 (2.5%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 34 (2.5%) 34 (2.9%) PAX3/7 | Pax5/Pax8/Pax2 | Pax7/Pax3 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 34 (2.5%) 34 (2.7%) Anthox6/Ax6 Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... + 34 (2.5%) 34 (2.4%) Fos/Fosb/Fosl1/Fosl2 zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 33 (2.5%) 33 (2.3%) Mlx Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... + 33 (2.5%) 33 (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... + 33 (2.5%) 33 (2.2%) Zfp239//Gm6020/Zfp51/Zfp553 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 33 (2.5%) 33 (1.8%) Fos/Fosb/Fosl1/Fosl2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 33 (2.5%) 33 (2.0%) Fos/Fosb/Fosl1/Fosl2 zf-C4\_Nuclear\_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4\_Nuclear\_receptors.HG1.9:like:ESR1/ESR... + 32 (2.4%) 32 (2.8%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... MIx + 31 (2.3%) 31 (1.8%) Fos/Fosb/Fosl1/Fosl2 FoxQ2d | Forkhead.HG1.31:like:FOXO1/FOXO3/FOXO3B/FOX... + 31 (2.3%) 31 (1.7%) AP-2.HG1.3:like:TFAP2A/TFAP2B/TFAP2C/TFAP2D... | Tfap2d/Tfap2c/Tfap2e/Tfap2b/Tfap2a Zfp239//Gm6020/Zfp51/Zfp553 + 31 (2.3%) 31 (2.3%) Fos/Fosb/Fosl1/Fosl2 300 0 10 20 10 20 % of peaks

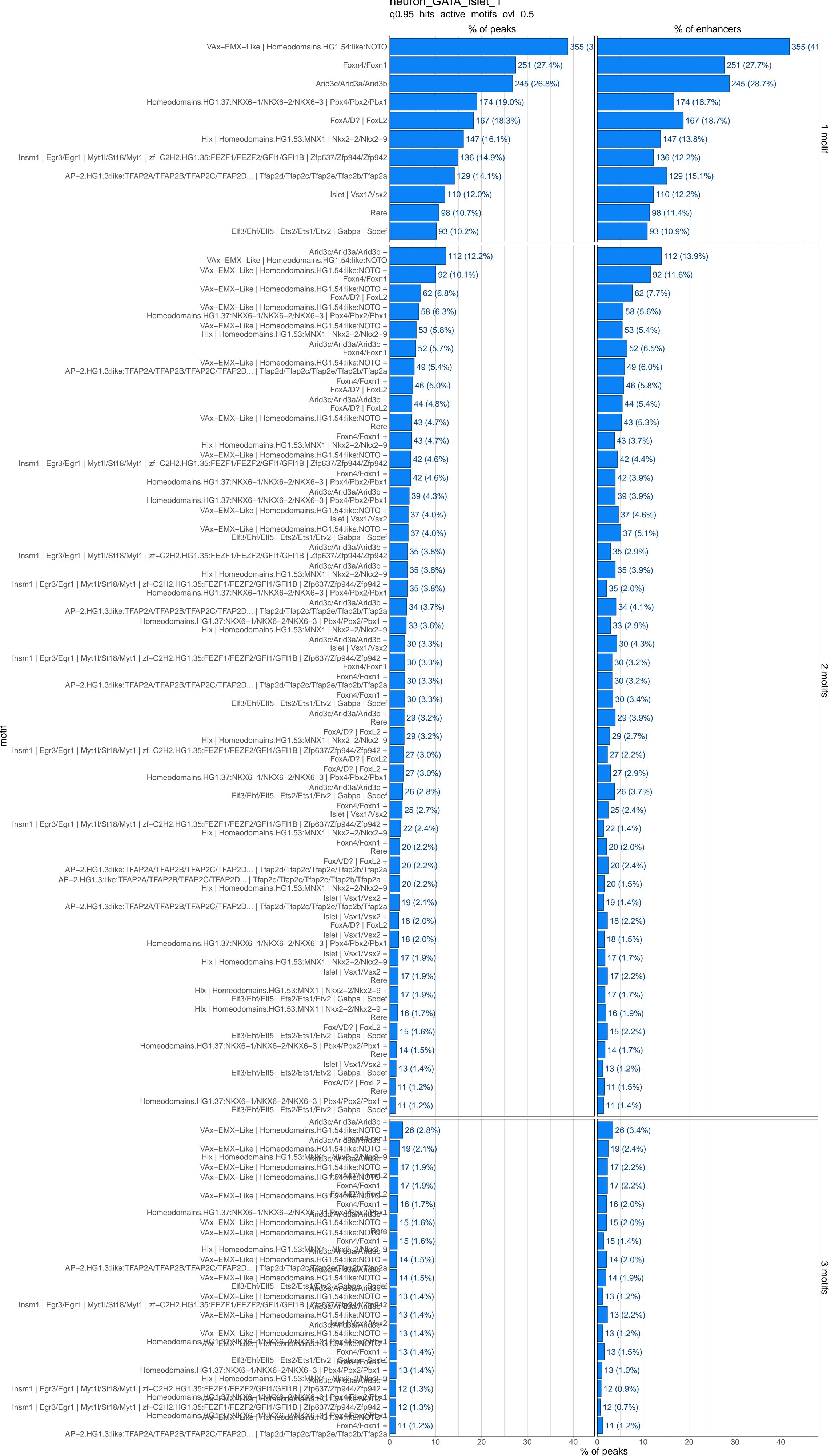


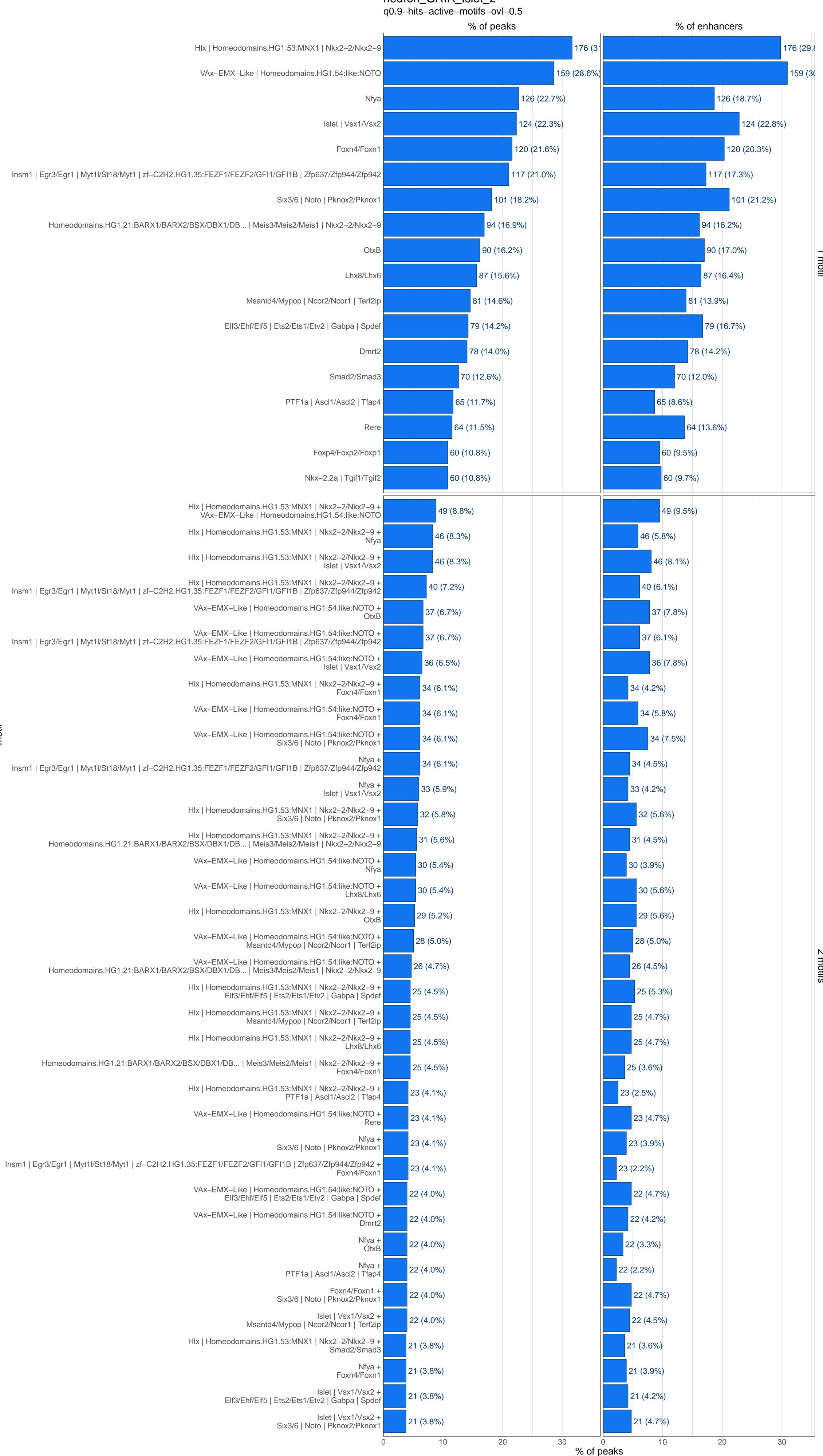


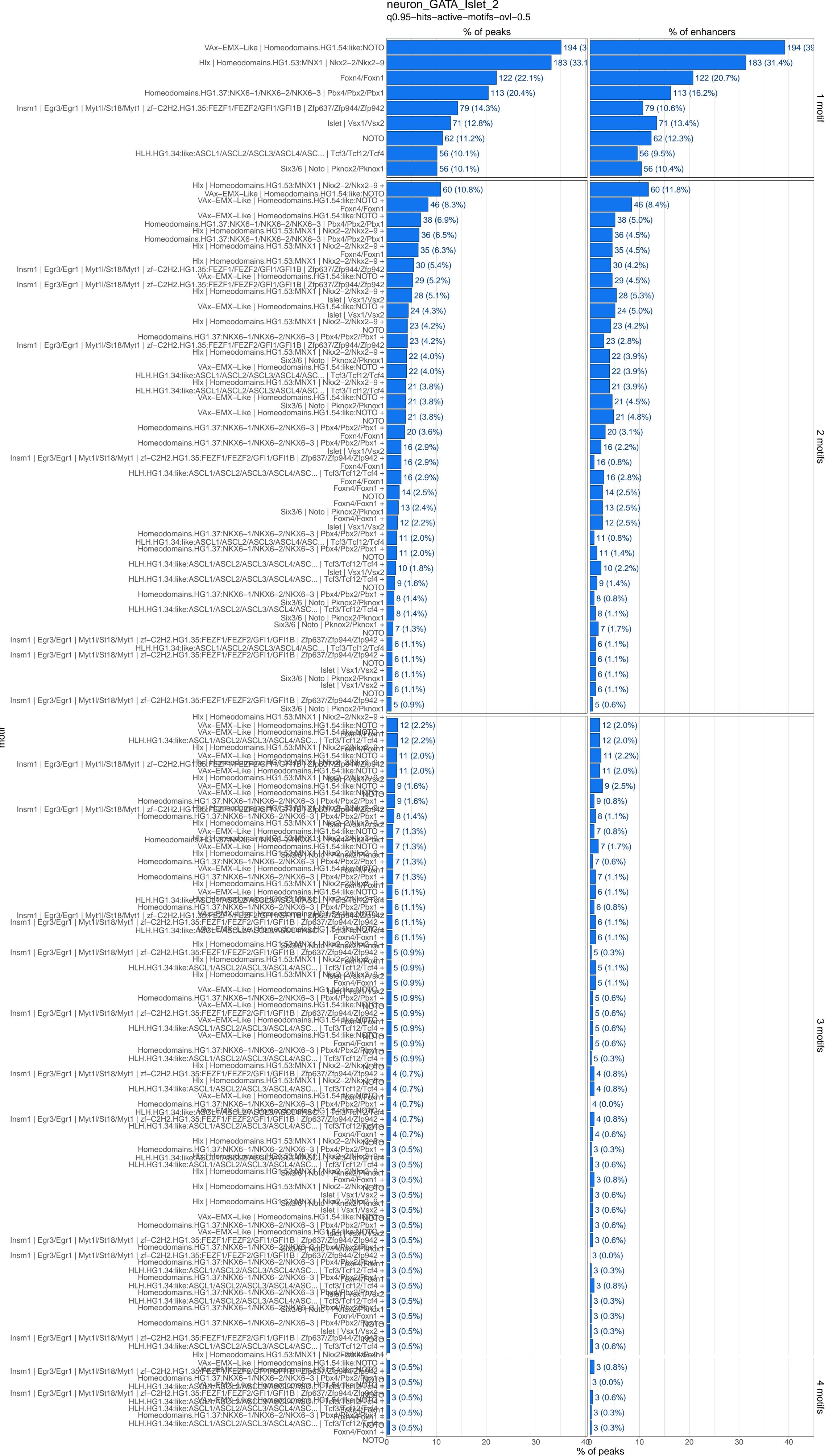


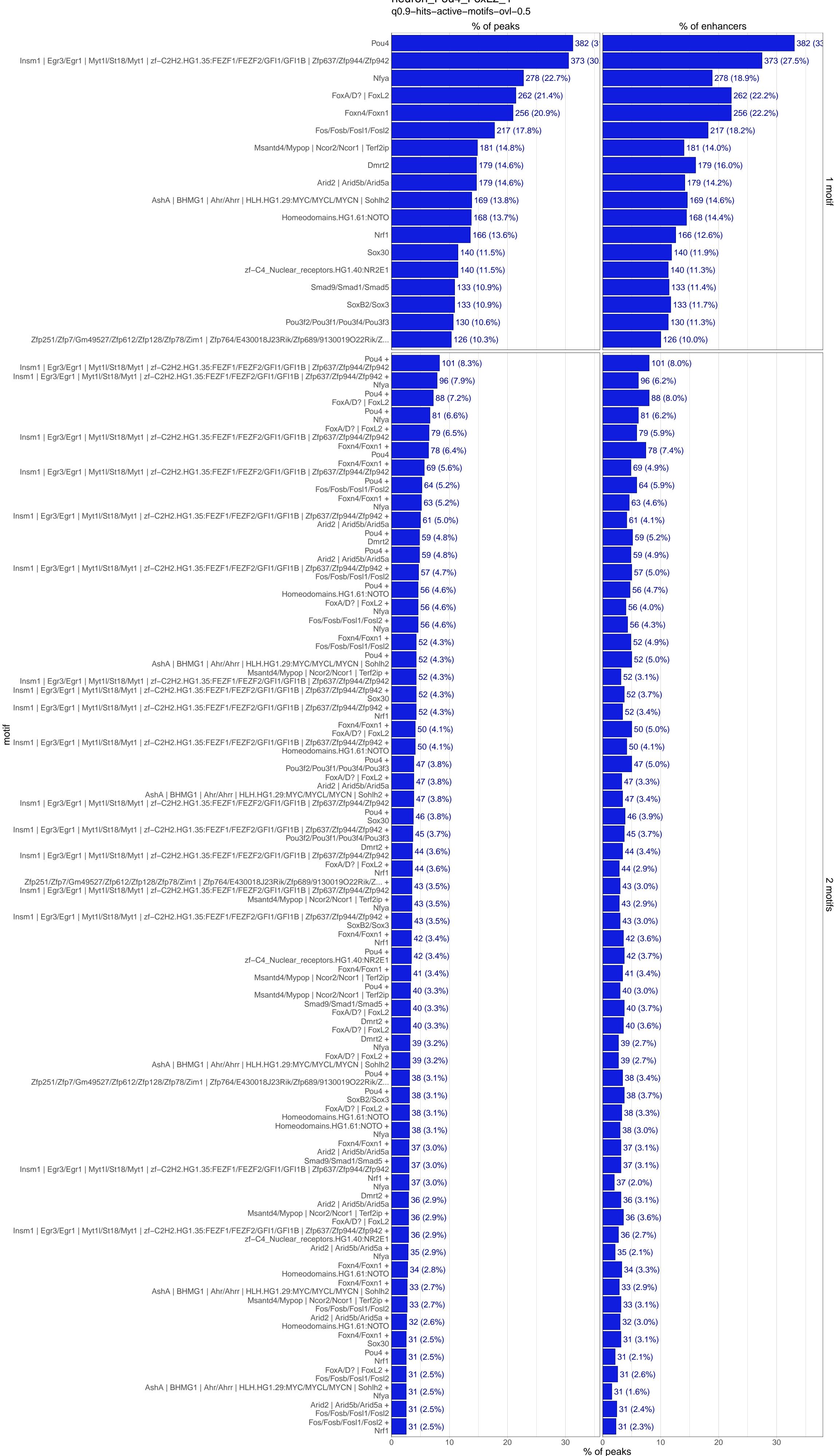
precursors\_NPC q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 115 (4: 115 (4 Max/Ppp5c 95 (35.1%) 95 (38.7 NvSoxB2a 65 (24.0%) 65 (21.9%) Foxn4/Foxn1 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942-62 (22.9%) 62 (27.1%) 55 (20.3%) 55 (21.3%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 FoxA/D? | FoxL2 50 (21.9%) 50 (18.5%) 49 (22.6%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 49 (18.1%) 44 (16.2%) Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... 44 (16.8%) 1 motif 43 (15.9%) Nrf1 43 (16.8%) 38 (14.0%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... 38 (17.4%) 37 (13.7%) 37 (12.9%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... 32 (11.8%) 32 (12.9%) zf-C4\_Nuclear\_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4\_Nuclear\_receptors.HG1.9:like:ESR1/ESR... 32 (11.8%) 32 (13.5%) 31 (10.3%) Msantd2 | Rcor1/Rcor2/Rcor3 31 (11.4%) 29 (11.0%) 29 (10.7%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... SMAD\_MH1.HG1.2:like:SMAD4 | Smad4 29 (10.7%) 29 (9.7%) NvSoxB2a + 35 (12.9%) 35 (13.5%) Max/Ppp5c Max/Ppp5c + 27 (10.0%) 27 (7.7%) Foxn4/Foxn1 NvSoxB2a + 26 (9.6%) 26 (8.4%) Foxn4/Foxn1 Max/Ppp5c + 23 (8.5%) 23 (7.7%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 NvSoxB2a + 22 (8.1%) 22 (9.7%) Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Max/Ppp5c + FoxA/D? | FoxL2 22 (8.1%) 22 (9.0%) Max/Ppp5c + 21 (7.1%) 21 (7.7%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 Max/Ppp5c + 20 (7.4%) 20 (7.7%) Nrf1 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 19 (7.0%) 19 (7.7%) NvSoxB2a NvSoxB2a + 18 (6.6%) 18 (7.1%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... NvSoxB2a + 18 (6.6%) 18 (10.3%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Forkhead.HG1.1:FOXA1/FOXA2/FOXA3/FOXB1/FOXB... | Forkhead.HG1.14:like:FOXN1/FOXN2/FOXN3/FOXN... | ... + 16 (5.9%) 16 (4.5%) Max/Ppp5c NvSoxB2a + 16 (5.9%) 16 (7.7%) zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 Max/Ppp5c + 16 (5.9%) 16 (4.5%) SMAD\_MH1.HG1.2:like:SMAD4 | Smad4 | Max/Ppp5c + 15 (7.1%) 15 (5.5%) Zfp251/Zfp7/Gm49527/Zfp612/Zfp128/Zfp78/Zim1 | Zfp764/E430018J23Rik/Zfp689/9130019O22Rik/Z... Max/Ppp5c + 15 (5.5%) 15 (5.8%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 motifs NvSoxB2a + 14 (5.2%) 14 (5.2%) Msantd2 | Rcor1/Rcor2/Rcor3 Max/Ppp5c + 14 (5.2%) 14 (5.2%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... Max/Ppp5c + 14 (5.2%) 14 (7.1%) zf-C4\_Nuclear\_receptors.HG1.13:NR4A1/NR4A2/... | zf-C4\_Nuclear\_receptors.HG1.9:like:ESR1/ESR... NvSoxB2a + 13 (4.8%) 13 (5.2%) Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... NvSoxB2a + 13 (4.8%) 13 (7.7%) FoxA/D? | FoxL2 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 13 (4.8%) 13 (5.2%) Foxn4/Foxn1 Nrf1 + 13 (4.8%) 13 (5.8%) FoxA/D? | FoxL2 Max/Ppp5c + 12 (4.4%) 12 (5.2%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 12 (4.4%) 12 (5.2%) Foxn4/Foxn1 Nrf1 + 12 (4.4%) 12 (3.9%) Foxn4/Foxn1 Cers6/Cers5 | Dlx4/Dlx1/Dlx3/Dlx6/Dlx2/Dlx5 | Homeodomains.HG1.55:like:EN1/EN2 | Homeodomains.HG2... + 12 (4.4%) 12 (3.2%) Foxn4/Foxn1 NvSoxB2a + 11 (4.1%) 11 (4.5%) Zic-C | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | zf-C2H2.HG10.1:ZFP3/ZNF319/ZNF449/ZNF574 | zf-C2H... NvSoxB2a + 11 (4.1%) 11 (3.2%) Klf13 | Sp6-9 | ZNF845 | Prdm13 | zf-C2H2.HG1.32:like:AC008758.1/AC008770.2/A... | zf-C2H2.HG119.... Msantd2 | Rcor1/Rcor2/Rcor3 + 11 (4.1%) 11 (5.2%) Max/Ppp5c zf-C2H2.HG4.4:like:ZIC1/ZIC2/ZIC3/ZIC4/ZIC5 + 11 (4.1%) 11 (5.2%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 Foxn4/Foxn1 + 11 (4.1%) 11 (5.2%) AshA | BHMG1 | Ahr/Ahrr | HLH.HG1.29:MYC/MYCL/MYCN | Sohlh2 30 10 10 20 20 30 0 40 % of peaks



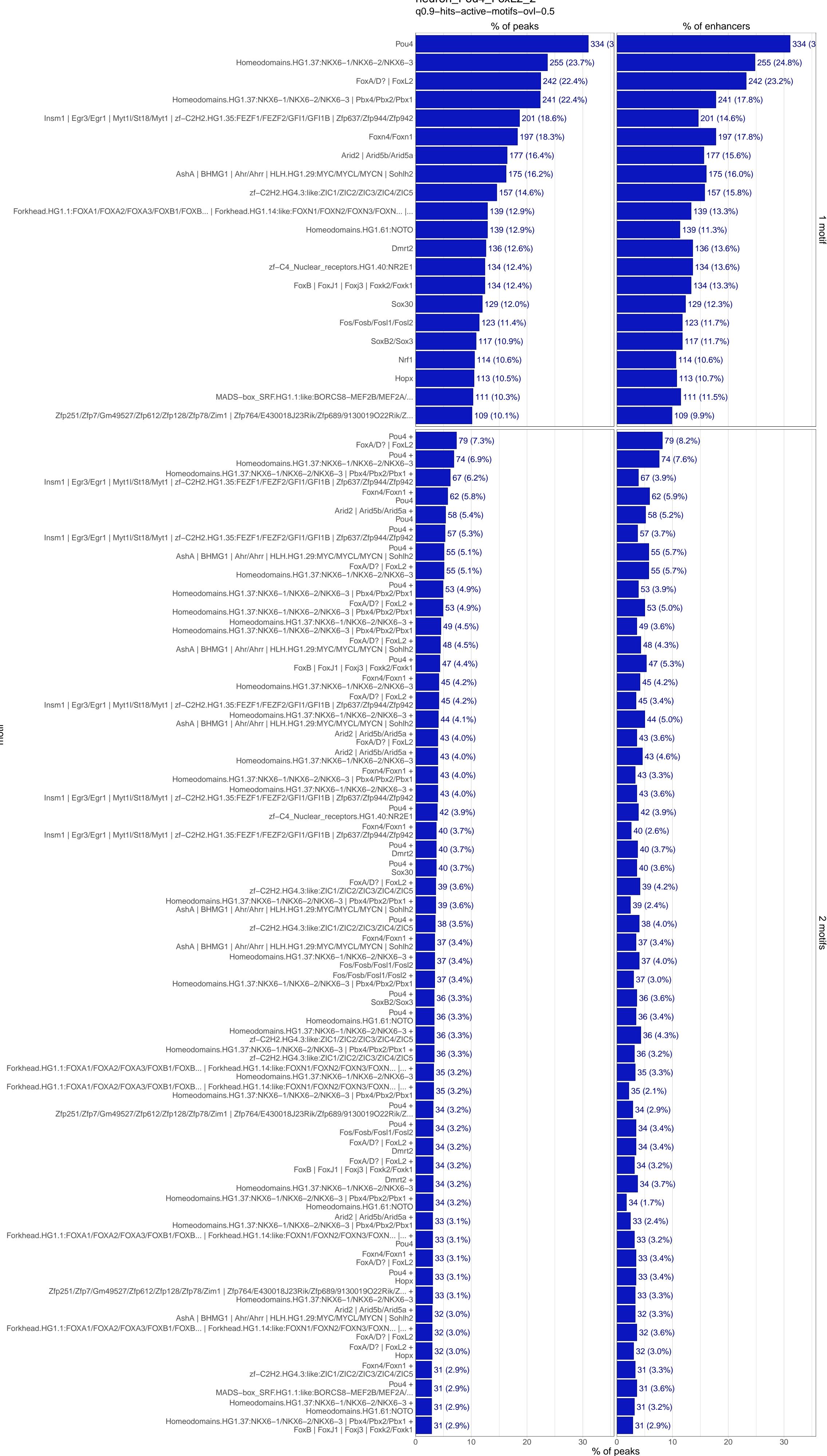




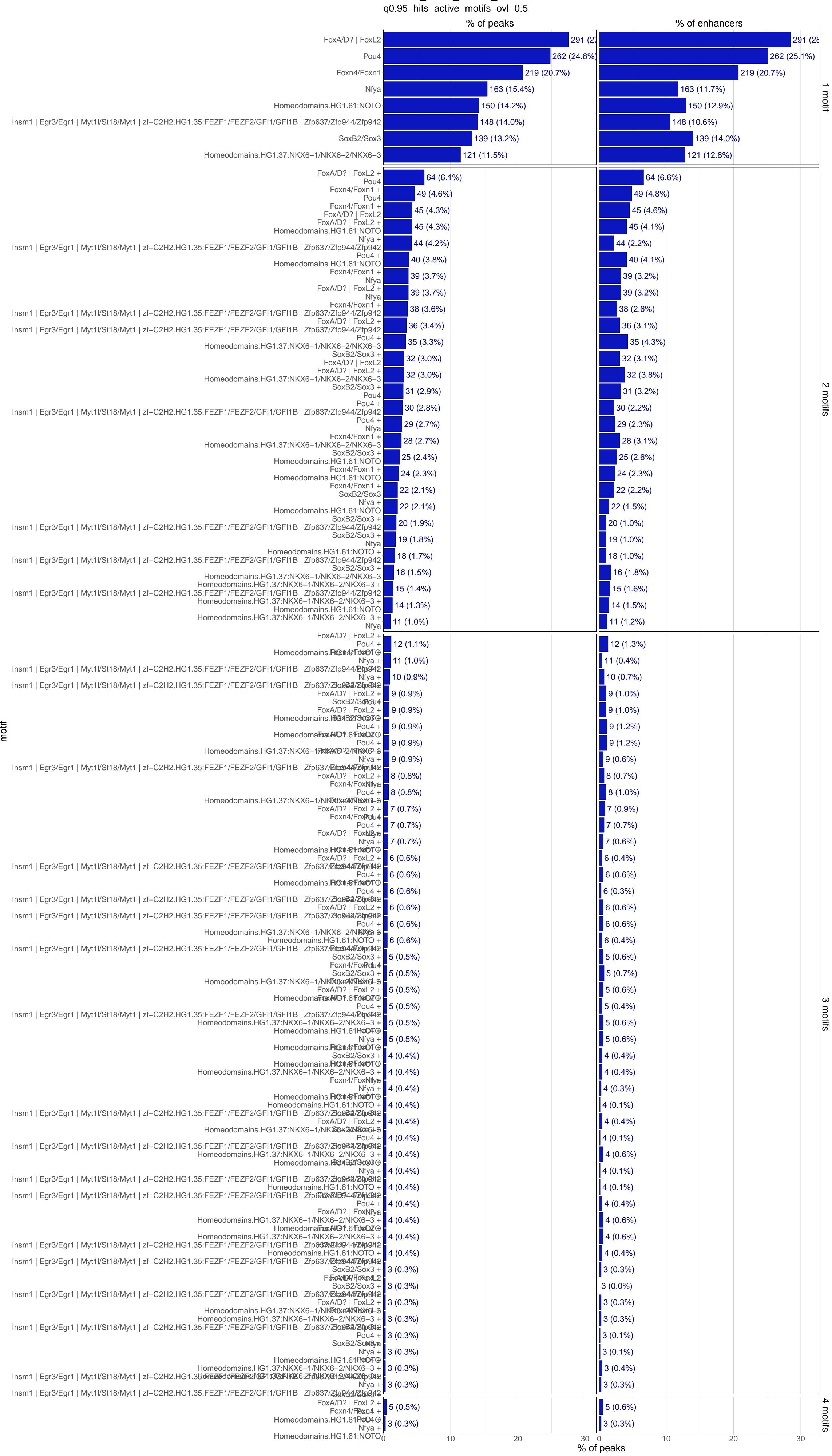




neuron\_Pou4\_FoxL2\_2 q0.9-hits-active-motifs-ovl-0.5



neuron\_Pou4\_FoxL2\_2 q0.95-hits-active-motifs-ovl-0.5



Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 10 20 10 300 20 % of peaks

gland q0.9-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 94 (31. 94 (25.2%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 78 (26.1%) 78 (31 Lhx8/Lhx6-72 (24.1%) 72 (25.8%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 71 (23.7%) 71 (16.1%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 63 (21.1%) 63 (21.3%) Arid3c/Arid3a/Arid3b 55 (18.4%) Foxn4/Foxn1 55 (16.1%) 49 (14.8%) RFX.HG1.6:like:RFX6 49 (16.4%) 47 (15.7%) 47 (12.3%) Cic 41 (13.7%) 41 (12.9%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 41 (13.7%) 41 (14.2%) OtxB 1 motif 41 (13.7%) 41 (12.3%) Nkx-2.2a | Tgif1/Tgif2 PTF1a | Ascl1/Ascl2 | Tfap4 41 (13.7%) 41 (12.3%) bZIP.HG2.6:like:DBP/HLF/TEF | Crebl2-38 (12.7%) 38 (12.9%) Arid2 | Arid5b/Arid5a 38 (12.7%) 38 (12.3%) 37 (12.4%) 37 (12.9%) Sox30 Gsx1/Gsx2 | Lhx5/Lhx1 | Noto | Vax2/Vax1 36 (12.0%) 36 (11.6%) Msantd4/Mypop | Ncor2/Ncor1 | Terf2ip 36 (12.0%) 36 (11.6%) 35 (14.2%) Pou3f2/Pou3f1/Pou3f4/Pou3f3 35 (11.7%) 31 (10.4%) 31 (9.7%) Msantd2 | Rcor1/Rcor2/Rcor3 31 (10.4%) 31 (7.7%) NvSox2 | NvSoxC 30 (12.3%) 30 (10.0%) Rfx4 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 29 (9.0%) 29 (9.7%) Lhx8/Lhx6 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 29 (4.5%) 29 (9.7%) 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 + 23 (7.7%) 23 (6.5%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 22 (7.4%) 22 (7.1%) Arid3c/Arid3a/Arid3b Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 19 (6.4%) 19 (5.2%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Lhx8/Lhx6 + 17 (4.5%) 17 (5.7%) 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 + 17 (5.2%) 17 (5.7%) RFX.HG1.6:like:RFX6 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 16 (3.9%) 16 (5.4%) Gsx1/Gsx2 | Lhx5/Lhx1 | Noto | Vax2/Vax1 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 16 (5.4%) 16 (3.9%) Lhx8/Lhx6 + 16 (5.4%) 16 (7.7%) Arid3c/Arid3a/Arid3b Arid3c/Arid3a/Arid3b + 16 (3.2%) 16 (5.4%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Arid3c/Arid3a/Arid3b + 16 (5.4%) 16 (6.5%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Lhx8/Lhx6 + 15 (5.0%) 15 (5.8%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Arid3c/Arid3a/Arid3b + 15 (4.5%) 15 (5.0%) Sox30 Foxn4/Foxn1 + 15 (5.0%) 15 (1.9%) Insm1 | Egr3/Egr1 | Myt1I/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 + 14 (4.7%) 14 (3.2%) RFX.HG1.6:like:RFX6 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 14 (4.7%) 14 (3.9%) PTF1a | Ascl1/Ascl2 | Tfap4 Arid2 | Arid5b/Arid5a + 14 (4.7%) 14 (5.2%) Arid3c/Arid3a/Arid3b Foxn4/Foxn1 + 14 (3.9%) 14 (4.7%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 13 (4.3%) 13 (2.6%) Foxn4/Foxn1 Msantd4/Mypop | Ncor2/Ncor1 | Terf2ip + 13 (4.3%) 13 (5.8%) Lhx8/Lhx6 Lhx8/Lhx6 + 13 (4.3%) 13 (4.5%) Cic 2 motifs Arid3c/Arid3a/Arid3b + 13 (4.3%) 13 (4.5%) Foxn4/Foxn1 Arid3c/Arid3a/Arid3b + 13 (4.3%) 13 (3.9%) RFX.HG1.6:like:RFX6 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 12 (4.0%) 12 (3.9%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 12 (4.0%) 12 (3.9%) Pou3f2/Pou3f1/Pou3f4/Pou3f3 Lhx8/Lhx6 + 12 (4.0%) 12 (4.5%) Arid2 | Arid5b/Arid5a Lhx8/Lhx6 + 12 (4.0%) 12 (4.5%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 Lhx8/Lhx6 + 12 (4.0%) 12 (3.9%) Nkx-2.2a | Tgif1/Tgif2 Lhx8/Lhx6 + 12 (4.0%) 12 (4.5%) Foxn4/Foxn1 Arid3c/Arid3a/Arid3b + 12 (4.0%) 12 (3.2%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 Arid3c/Arid3a/Arid3b + 12 (4.0%) 12 (3.2%) Msantd2 | Rcor1/Rcor2/Rcor3 Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 + 12 (4.0%) 12 (4.5%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 + 12 (4.0%) 12 (3.9%) RFX.HG1.6:like:RFX6 12 (4.0%) 12 (3.2%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 + 11 (3.7%) 11 (3.2%) Nkx-2.2a | Tgif1/Tgif2 bZIP.HG2.6:like:DBP/HLF/TEF | Crebl2 + 11 (3.7%) 11 (3.2%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Gsx1/Gsx2 | Lhx5/Lhx1 | Noto | Vax2/Vax1 + 11 (3.7%) 11 (2.6%) Arid3c/Arid3a/Arid3b Msantd4/Mypop | Ncor2/Ncor1 | Terf2ip + 11 (1.9%) 11 (3.7%) Lhx8/Lhx6 + 11 (3.7%) 11 (4.5%) PTF1a | Ascl1/Ascl2 | Tfap4 Arid2 | Arid5b/Arid5a + 11 (1.9%) 11 (3.7%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 Nkx-2.2a | Tgif1/Tgif2 + 11 (3.7%) 11 (2.6%) Cic Cic + 11 (3.7%) 11 (1.9%) RFX.HG1.6:like:RFX6 Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 11 (3.7%) 11 (3.2%) NvSox2 | NvSoxC Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 + 11 (3.7%) 11 (3.9%) Pou3f2/Pou3f1/Pou3f4/Pou3f3 20 30 10 20 30 10 0 % of peaks

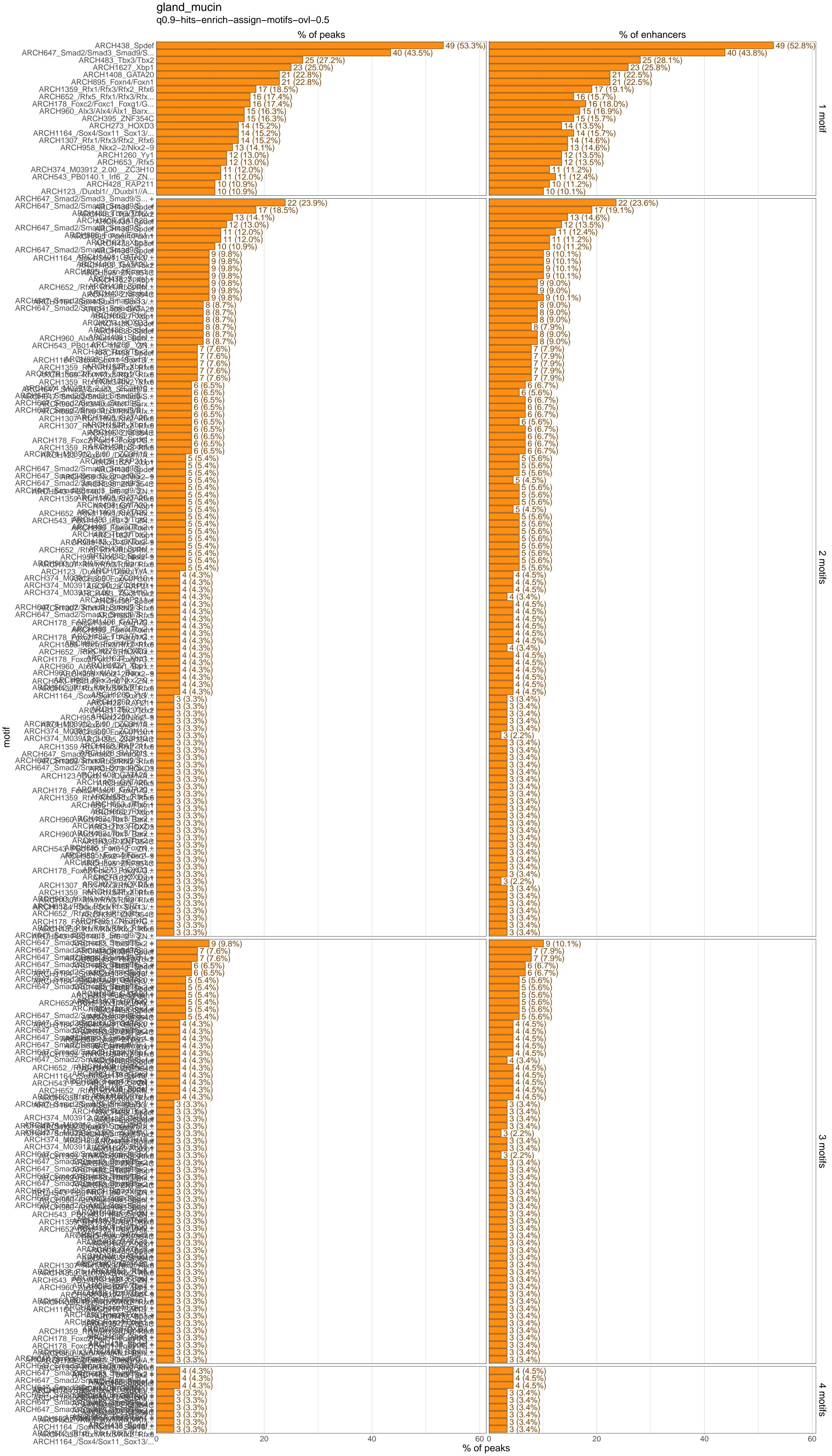
gland q0.95-hits-active-motifs-ovl-0.5 % of peaks % of enhancers 78 (27. 78 (19.3%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1 73 (25.3% 73 (27 Arid3c/Arid3a/Arid3b Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 72 (24.9%) 72 (24.7%) 56 (19.4%) 56 (16.7%) Foxn4/Foxn1 51 (17.6%) 51 (8.0%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 34 (11.8%) 34 (11.3%) 1 motif NvSox2 | NvSoxC 34 (11.8%) 34 (8.7%) 33 (11.4%) 33 (14.7%) Lhx8/Lhx6 32 (11.1%) 32 (12.0%) Nkx-2.2a | Tgif1/Tgif2 32 (8.0%) 32 (11.1%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 31 (11.3%) 31 (10.7%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 29 (10.0%) 29 (10.0%) 29 (10.0%) 29 (10.0%) RFX.HG1.6:like:RFX6 Arid3c/Arid3a/Arid3b + 23 (8.0%) 23 (6.7%) 20 (2.7%) 20 (6.9%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 18 (6.2%) 18 (6.7%) Homeodomains.HGIX.37.NKX6-17NKX6-2/NKX6-31PbX4/Pbx2/PbX2/PbX7-4 17 (5.9%) 17 (4.7%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 15 (5.2%) 15 (5.3%) Formation 1 15 (4.0%) 15 (5.2%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 14 (2.7%) 14 (4.8%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2F2/AGA:35:FEZF3/FEZF2/GF11/GF17B | Zf6637/Zf6944/Zf6942 14 (4.8%) 14 (2.7%) HIX Homeodomains HG1.53:MNX11 NKX2-27R/NKX2-9-9 13 (4.5%) 13 (2.7%) Arid3C/Arid3a/AryS3xC 12 (4.2%) 12 (4.7%) 12 (4.2%) 12 (0.7%) Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2 HG1 35; FEZF1/FEZF2/GF11/GF11B | Zfp637/Zfp944/Zfp942 11 (3.8%) 11 (2.7%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC:PbX4/PbX2/PbX1+Homeodomains:HG1.37:NKX6-2/NKX6-2/NKX6-37:PbX4/PbX2/PbX1+ 11 (4.0%) 11 (3.8%) Arid3c/Arid3a/Arid3b<sup>Cic</sup> 10 (3.5%) 10 (2.0%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC\_1/Tcf3/Tcf12/Tcf4 10 (1.3%) 10 (3.5%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2 HG1 35; FEZF1/FEZF2/GF11/GF11Bd Zfp637/Zfp944/Zfp942 10 (3.5%) 10 (2.0%) NvSox21NvSoxC 9 (3.1%) 9 (4.0%) Arid3c/Arid3a/Arid3b Arid3c/Arid3a/Arid3b+ 9 (3.1%) 9 (3.3%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 + 9 (2.7%) 9 (3.1%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 9 (3.1%) 9 (2.7%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx2/Pbx1+ 9 (3.1%) 9 (1.3%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... Tcf3/Tcf4/F 9 (3.1%) 9 (2.0%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 8 (2.8%) 8 (2.0%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-31 Pbx4/Pbx2/Pbx1 8 (2.8%) 8 (3.3%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 8 (2.8%) 8 (2.7%) Homeodomains. HG1-37:NKX6-17NKX6-27NKX6-3 Pbx4/Pbx2/Pbx1+1 8 (2.8%) 8 (1.3%) Hlx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9+ 8 (2.8%) 8 (0.7%) Arid3c/Arid3a/Arid36ic 7 (2.4%) 7 (3.3%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-2/Nkx2-9 + 7 (2.4%) 7 (1.3%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2F9XNKX2-9-1 7 (2.4%) 7 (2.7%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX3/DBX3/DBXX6-12/NKX6-2/NKX6-3/NEIST3 NRX24/Phx2/Pbx2 7 (2.4%) 7 (3.3%) RFX.HG1.6:like:RFX6 motifs 7 (2.4%) 7 (0.7%) 7 (1.3%) 7 (2.4%) HIX | Homeodomains.HG1.53:MNX1 | NVSox2/NXX2-94 7 (2.0%) 7 (2.4%) RFX.HG1.6:like:RFX6 6 (2.1%) 6 (1.3%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 6 (2.1%) 6 (1.3%) Arid3c/Arid3a/Arid3b+ 6 (0.7%) 6 (2.1%) 6 (2.1%) 6 (3.3%) 6 (2.1%) 6 (2.0%) HIx | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2 6 (2.1%) 6 (2.0%) 6 (2.1%) 6 (1.3%) HLH.H.G.1.34:like:ASCL1/ASCL3/ASCL4/ASC...| Tcf3/Tcf12/Tcf4 Insm1 | Egr3/Egr1 | Myt1I/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 6 (2.1%) 6 (0.7%) 6 (2.1%) 6 (2.0%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | NvSox2/NkX2-2/NkX2-9+ 5 (1.7%) 5 (2.0%) Nkx-2.2a | Tgif1/Tgif2 + Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 5 (1.7%) 5 (2.0%) 5 (1.7%) 5 (2.0%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 C 5 (1.7%) 5 (0.7%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp944/Zfp942 + 5 (1.7%) 5 (1.3%) RFX.HG1.6:like:RFX6ic 5 (1.7%) 5 (0.7%) Lhx8/Lhx6 + 4 (1.3%) 4 (1.4%) Nkx-2.2a | Tgif1/Tgif2 4 (1.4%) 4 (2.0%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2F2/Nkx2-9+ HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | Tcf3/Tcf12/Tcf4 4 (0.7%) 4 (1.4%) 4 (2.0%) 4 (1.4%) HLH.HG1.34:like:ASELY/ASEL2/ASEL3/ASEL4/ASEL1.53:MNX1+Nkx2-2/Nkx2-9 4 (0.7%) 4 (1.4%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... TCl3/Tcl12/Tcl4+ 4 (1.3%) 3 (1.3%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | Nkx2-2/Nkx2-9 3 (1.0%) 3 (2.0%) 3 (1.0%) 3 (1.3%) 3 (1.0%) 3 (0.7%) 3 (1.0%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis1 | NKX2-2/NKX2-9 + 3 (0.7%) 3 (1.0%) 3 (0.7%) 3 (1.0%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... 3 (1.0%) 3 (0.7%) HLH.HG1.34:like:ASCL1/ASCL2/ASCL3/ASCL4/ASC... | 3 (1.0%) 3 (0.7%) 6 (1.3%) 6 (2.1%) Homeodomains.HG1.37:NKX6-17NKX6-27NKX6 Homeodomains.HG1.37:NKX6-17NKX6-27NKX6 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35;FEZF1/FEZF2/GFI1/GFI1/BHX6-27NKX6 6 (2.1%) 6 (1.3%) 6 (2.1%) 6 (2.7%) Homeodomains.HG1.37.NRX6-17NKX6-2/NKX6-5 (1.7%) 5 (0.7%) 5 (1.3%) 5 (1.7%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf\_C2H2.HG1.35; FEZF1/FEZF2/GFI1/GFI1B | Zfr Homeodomains: HG1.37; NKX6-1/NK 5 (1.7%) 5 (1.3%) 5 (1.7%) 5 (0.7%) 4 (2.7%) Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB... | Meis3/Meis2/Meis 4 (1.4%) 4 (1.3%) 4 (1.4%) Homeodomains.HGIX.37:NKX6-17NKX6-2/NKX6-4 (1.4%) 4 (1.3%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp6 4 (1.4%) 4 (1.3%) 4 (1.3%) 4 (1.4%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 Pbx4/Ph 4 (0.7%) 4 (1.4%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp94 Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3 | Pbx4/Pbx 4 (1.4%) 4 (0.0%) 4 (0.7%) 4 (1.4%) Hx. Homeodomains. HG1.53:MNX

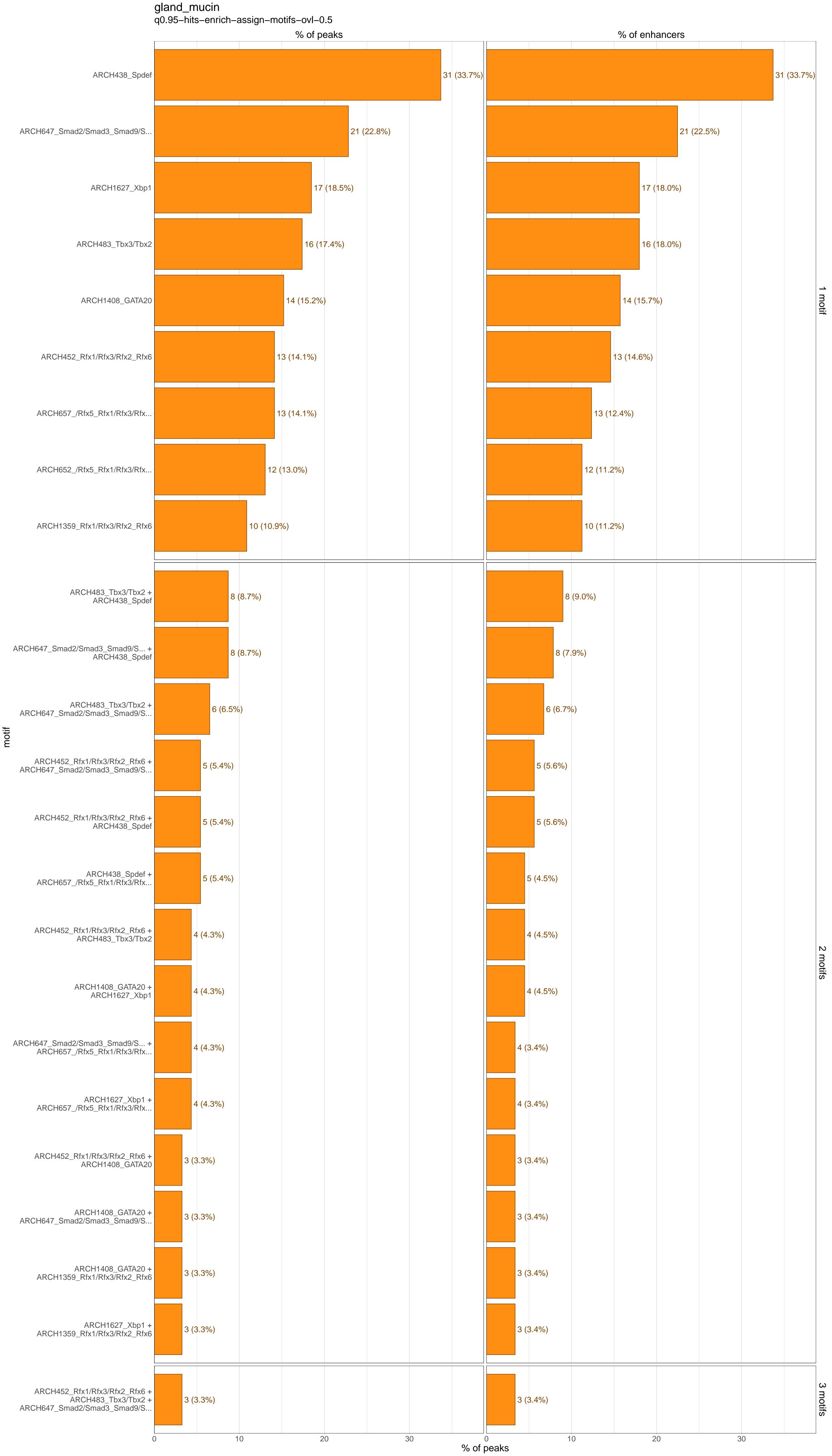
Homeodomains. HG1.39:NKX6-1/NKX6-2/NKX6-3|

Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2. HG1.35: FEZF1/FEZF2/GFI1/GFI1/BLZfp6;

Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2. HG1.35: FEZF1/FEZF2/GFI1/GFI1/BLZfp6;

Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2. HG1.35: FEZF1/FEZF2/GFI1/GFI1/BLZfp6; 4 (0.0%) 4 (1.4%) 4 (0.7%) 4 (1.4%) motifs 4 (1.3%) 4 (1.4%) 4 (1.3%) 4 (1.4%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2.HG1.35:FEZF1/FEZF2/GFI1/GFI1B | Zfp637/Zfp 4 (1.4%) 4 (1.3%) Homeodomains.HG1.37:NKX6-1/NKX6-2/NKX6-3; L50 Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2 HG1.35: FEZF1/FEZF2/G5l1/GF11B | Zfp63 Homeodomains.HG1.21:BARX1/BARX2/BSX/DBX1/DB...-| Meis3/Meis2/Meis5/G3 Hlx | Homeodomains.HG1.53:MNX1 | 3 (0.0%) 3 (1.0%) 3 (1.3%) 3 (1.0%) 3 (0.0%) 3 (1.0%) Insm1 | Egr3/Egr1 | Myt1l/St18/Myt1 | zf-C2H2 HG1 35; FFZF1/FFZF2/GF11/GF11B | Homeodomains: HG1.37; NKX6-1/NKX6-2/NKX6 3 (0.0%) Homeodomains.HG1.21:BARXY/BARX2/BSX/bBX1/bB.../SVE13/ASCL4/A Homeodomains.HG1.21:BARXY/BARX2/BSX/bBX1/bB.../SVE13/ASCL4/A Homeodomains.HG1.21:BARXY/BARX2/BSX/bBX1/DB2.../SVE13/ASCL4/A 3 (0.7%) 3 (0.7%) 3 (1.0%) 3 (1.0%) 3 (1.3%) 3 (0.0%) 3 (0.7%) 3 (0.0%) 3 (0.0%) 3 (1.3%) 3 (0.0%) 3 (0.0%) Arid3G/Arid3a/Arig3b c Homeodomains.HG1.37;NKX6=1/NKX6=3/NKX6=3 | Bbx4/Bbx2/Bbx1 + Insm1 | Egr3/Egr1 | Myt1/St18/Myt1 | Zf=C2H2:HG1:35;EEZE1/FEZE2/GE11/GE11B | Zf0637/Zf0944/Zf0942 + HIX | Homeodomains.HG1.53:MNX1 | Nkx2-2/Nkx2-9 | 3 (1.0%) 3 (0.0%) 4 (1.3%) 3 (1.3%) 3 (1.0%) NvSox2 | NvSoxC0 10 30 0 10 30 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

