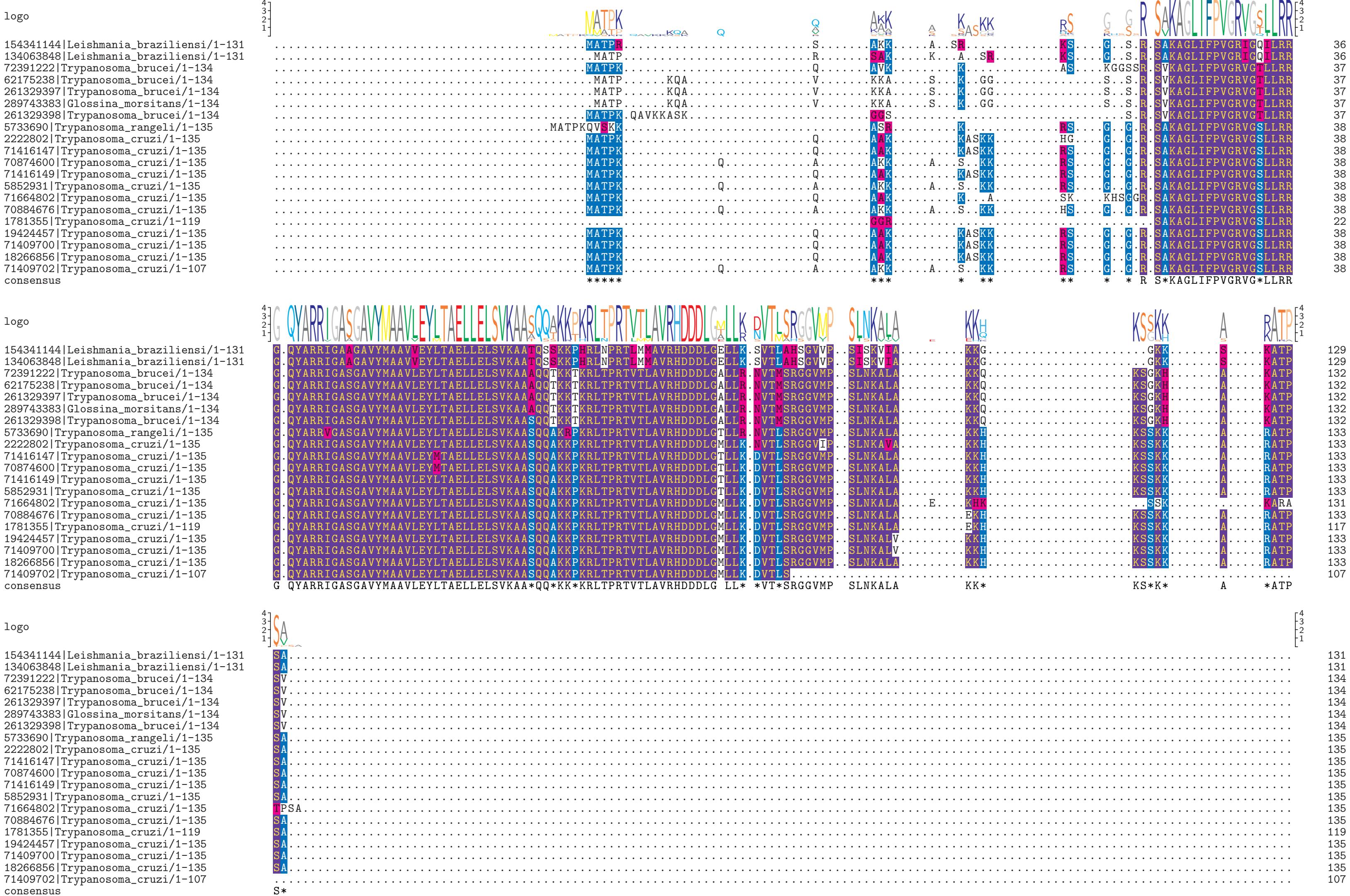
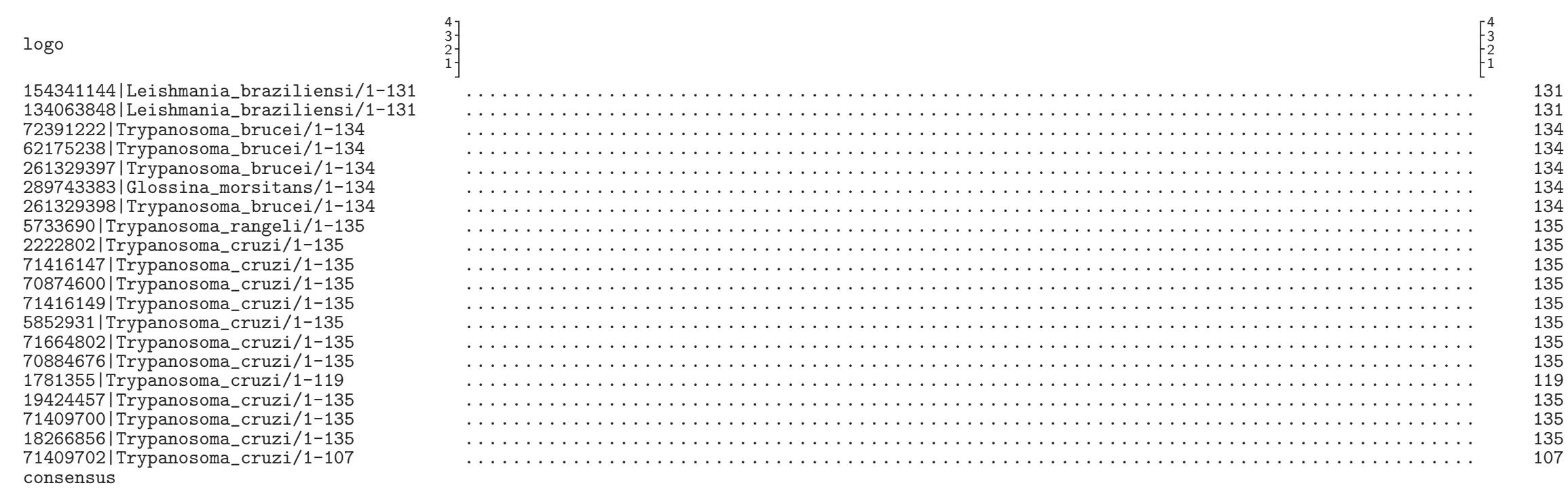
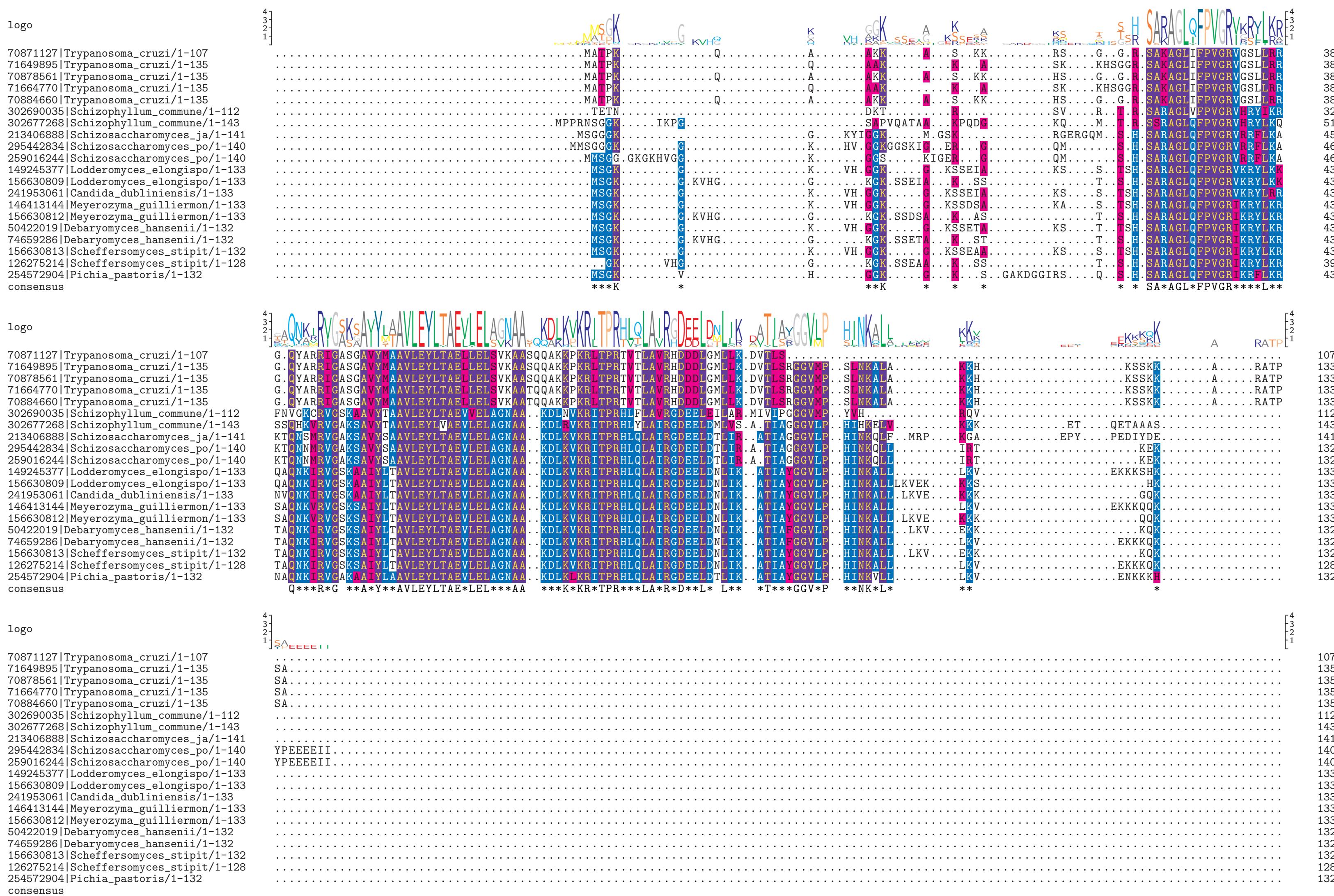


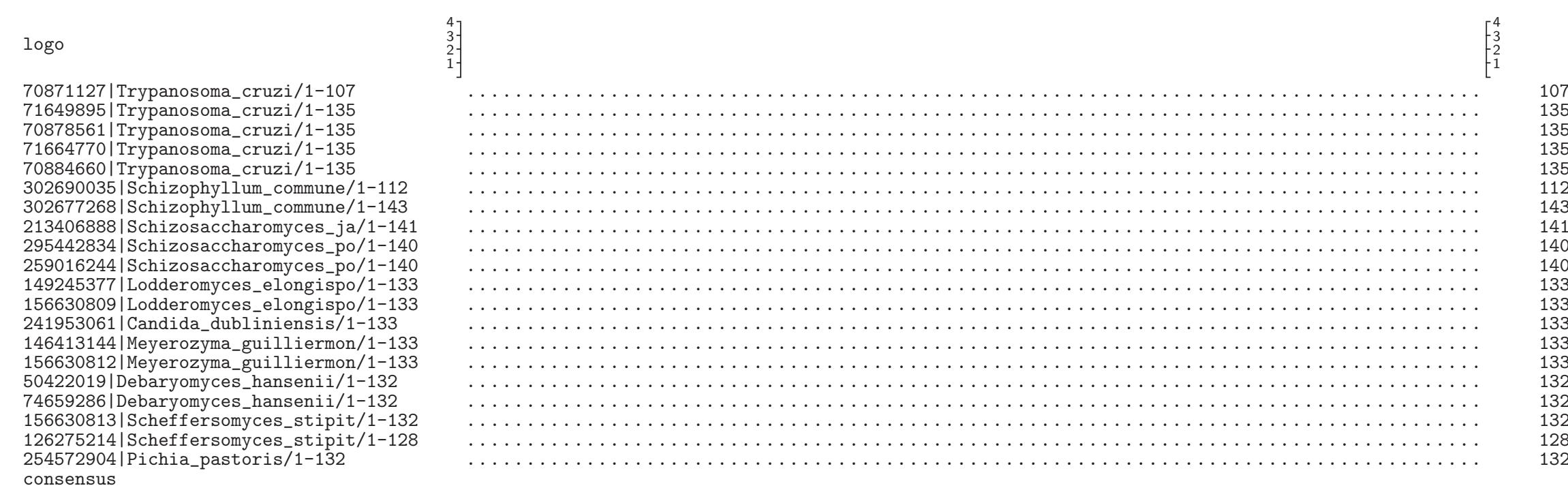
## H2A.fasta

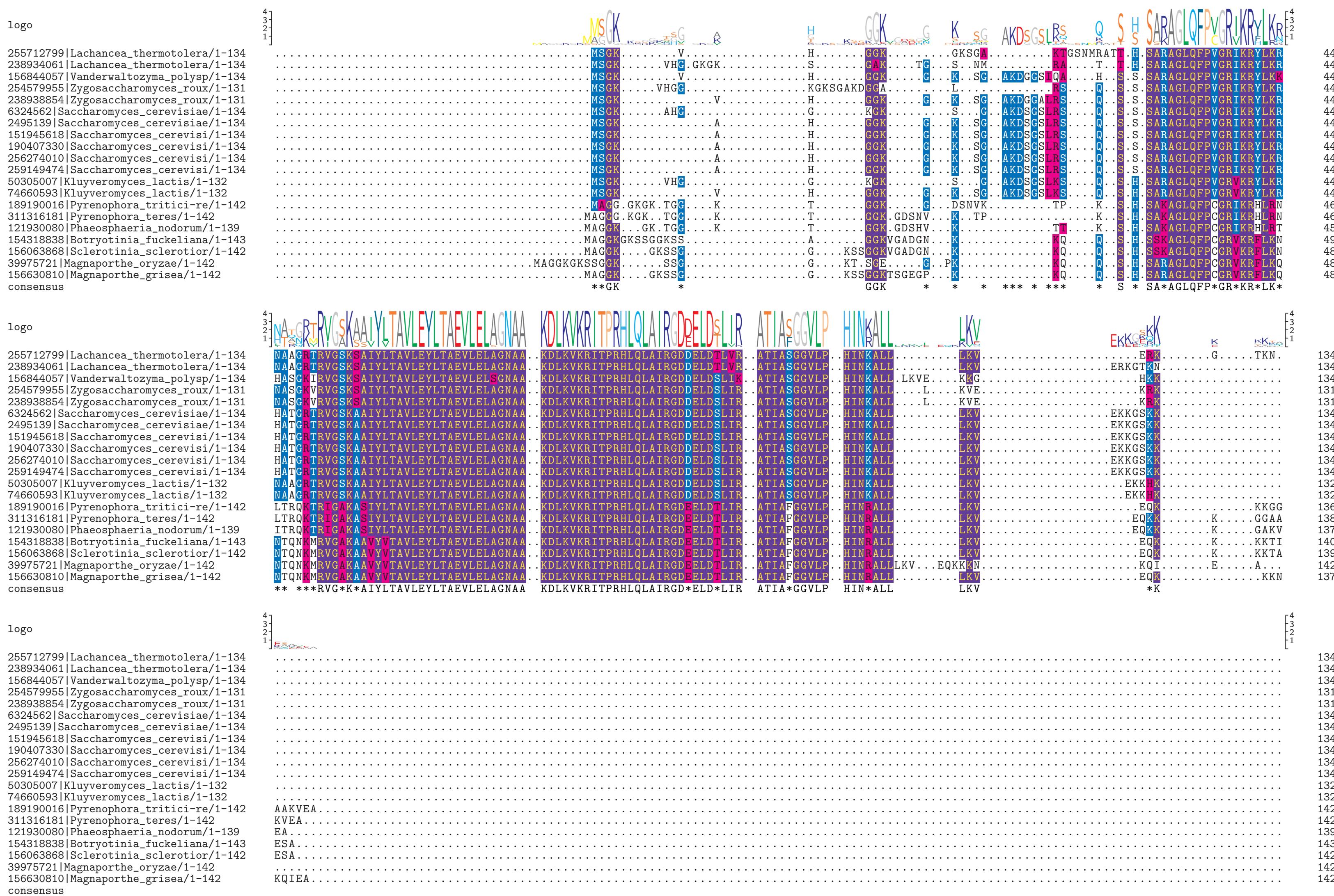


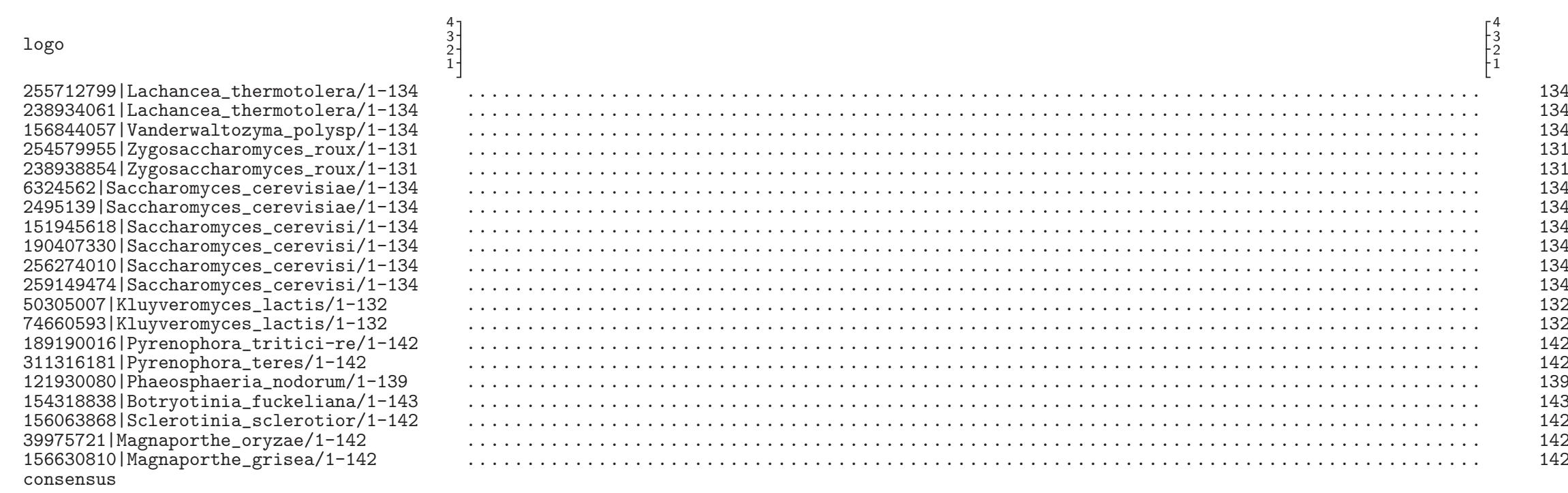


█ non conserved  
█ similar  
█ ≥ 50% conserved  
█ ≥ 80% conserved

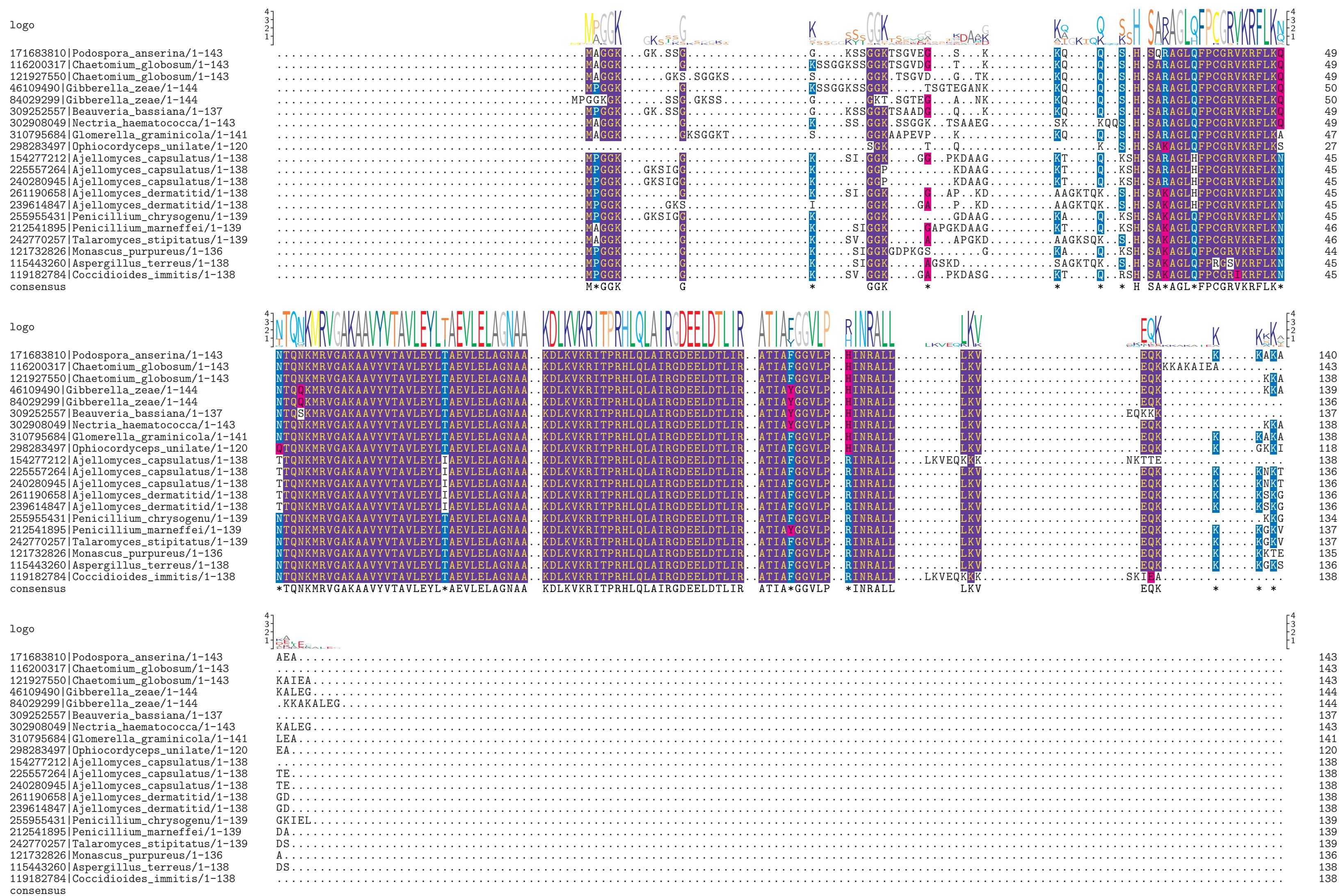


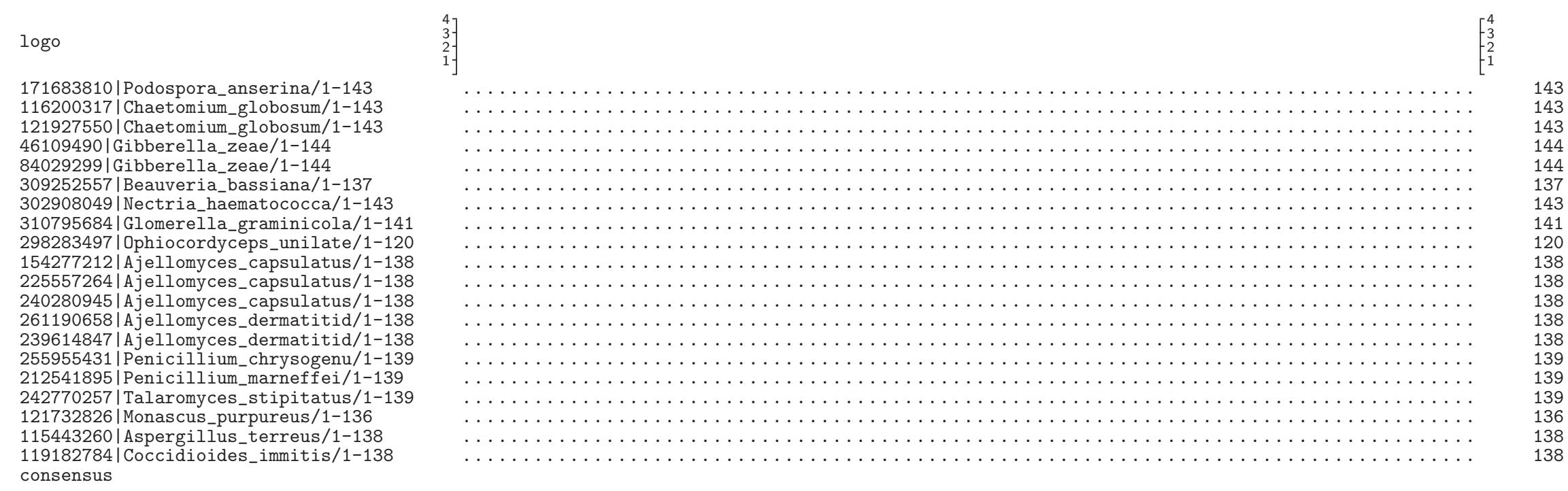




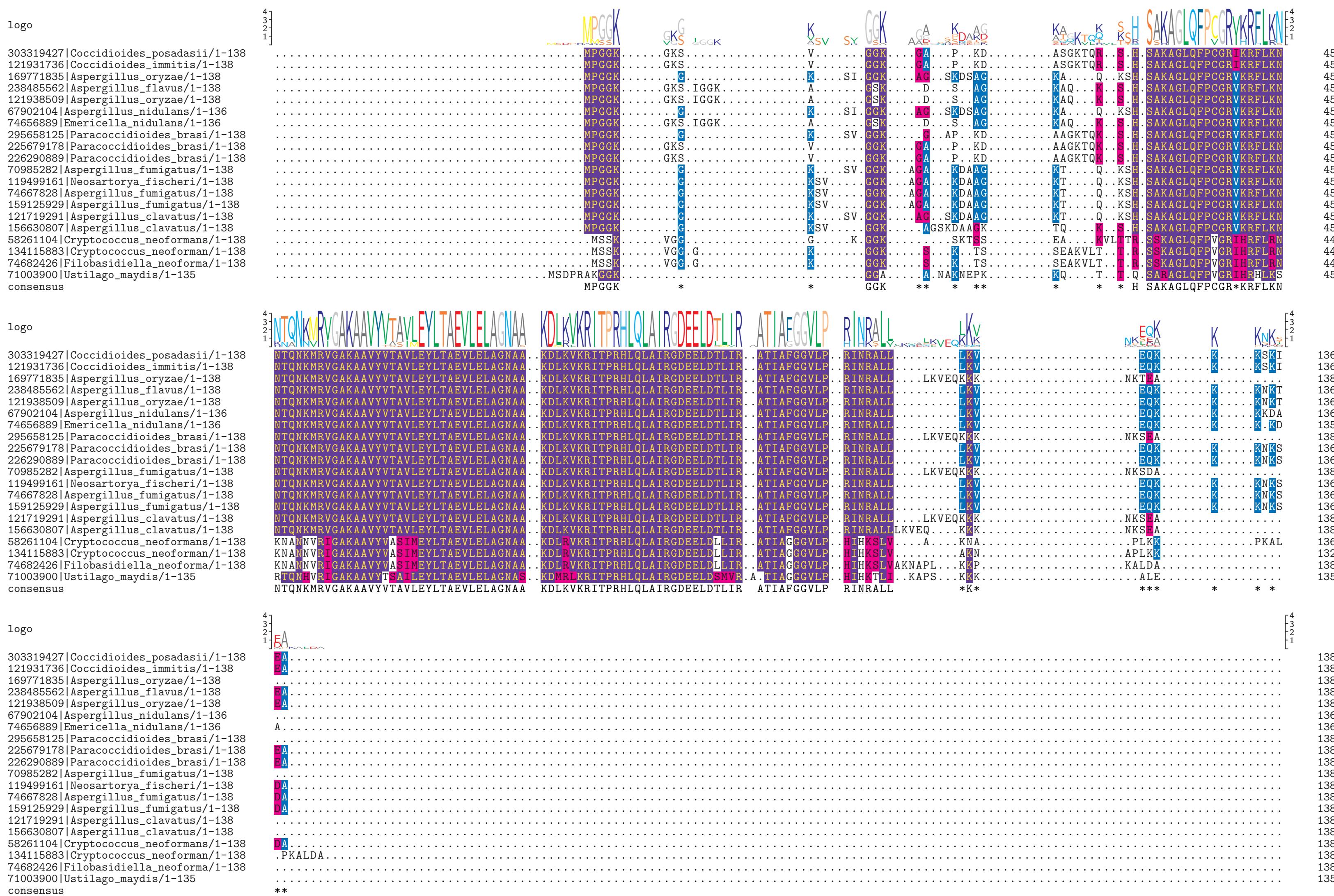


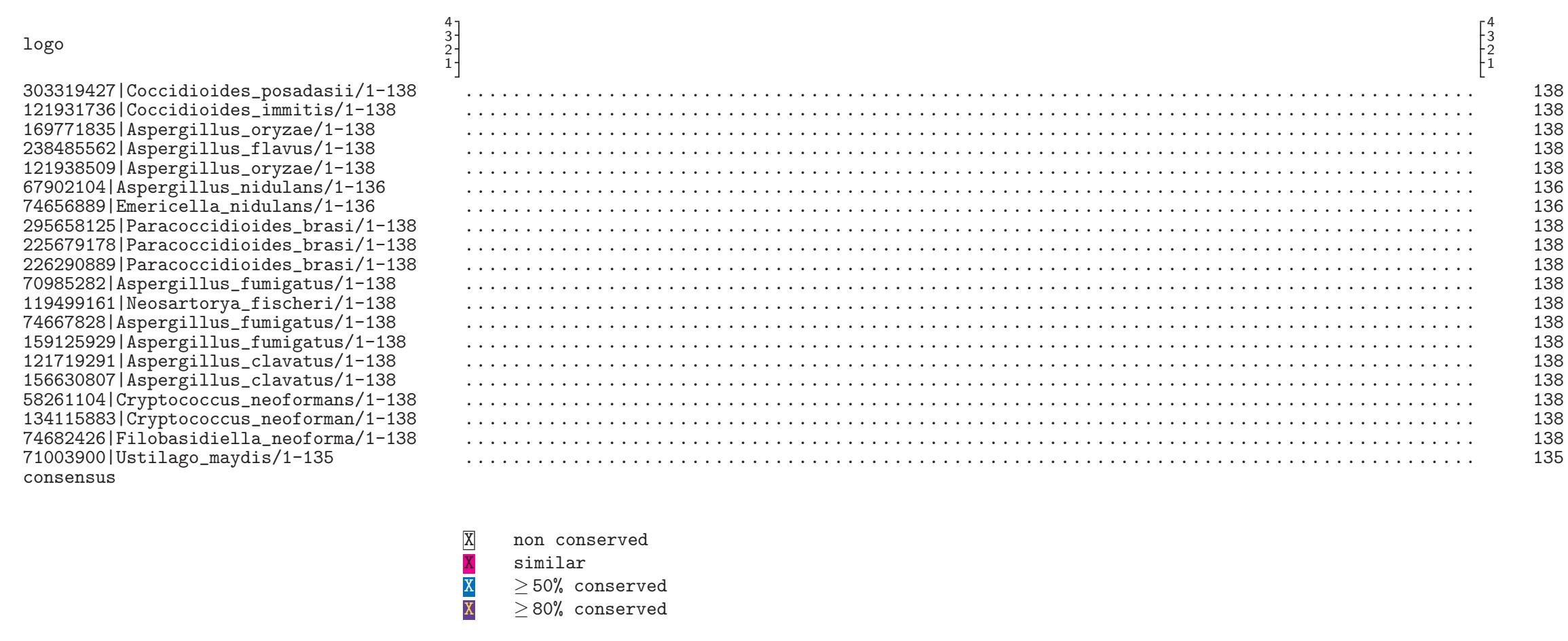
non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved

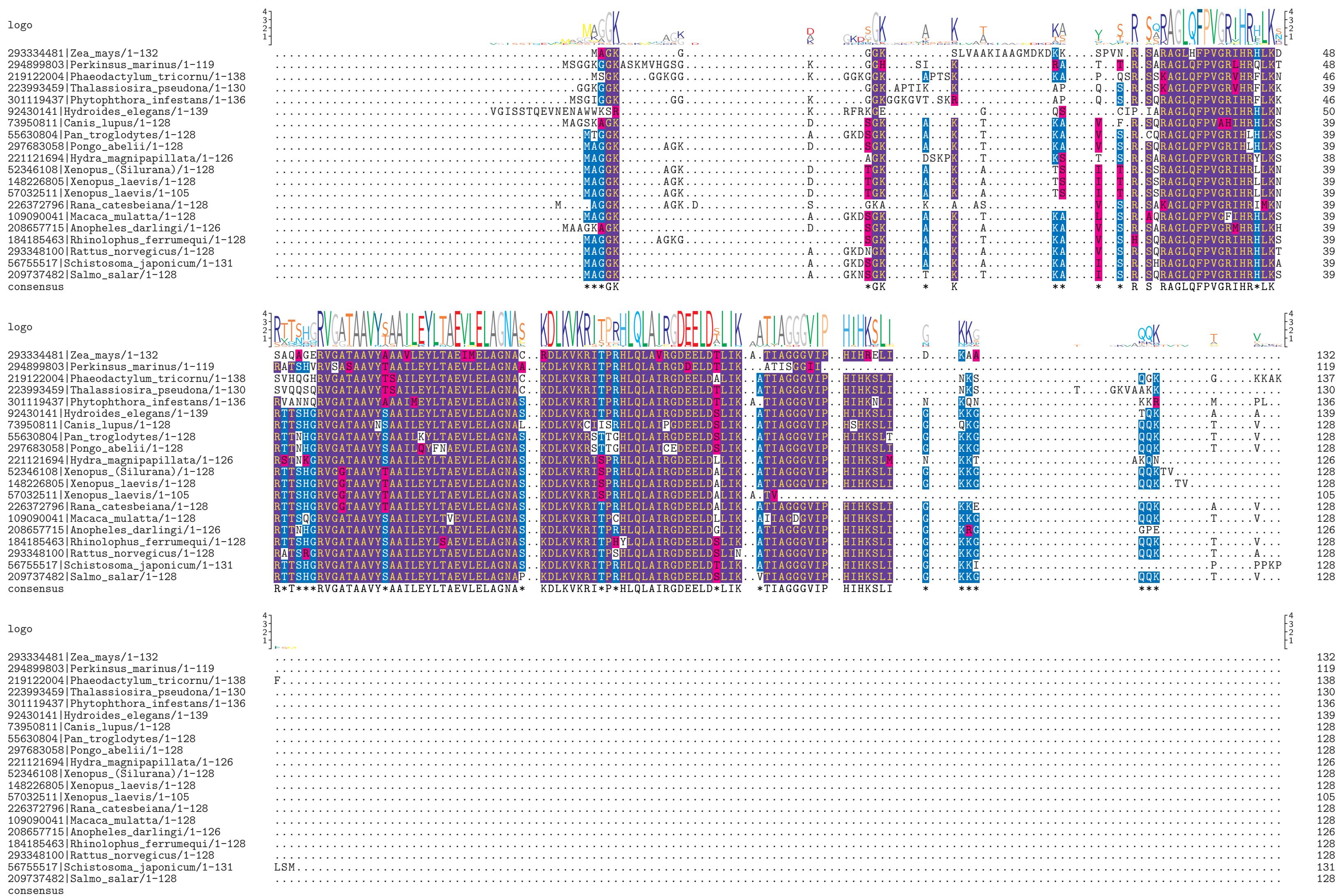


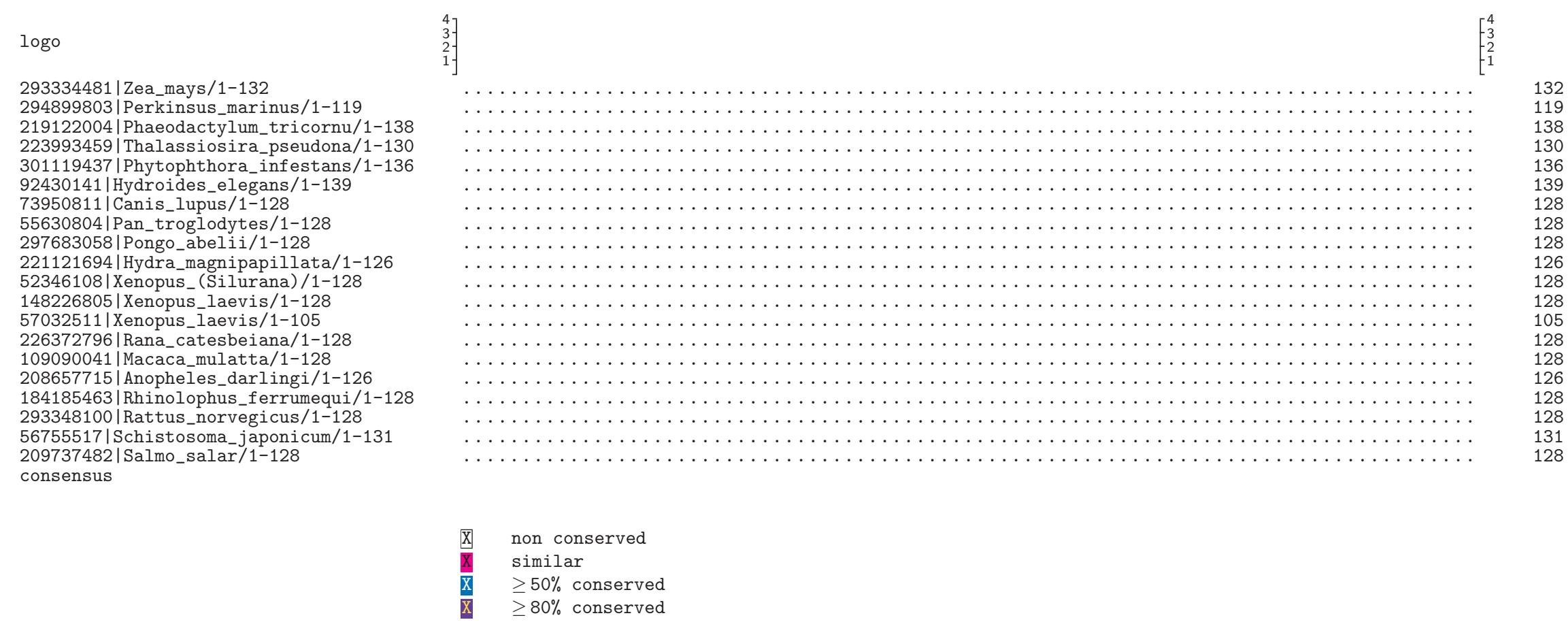


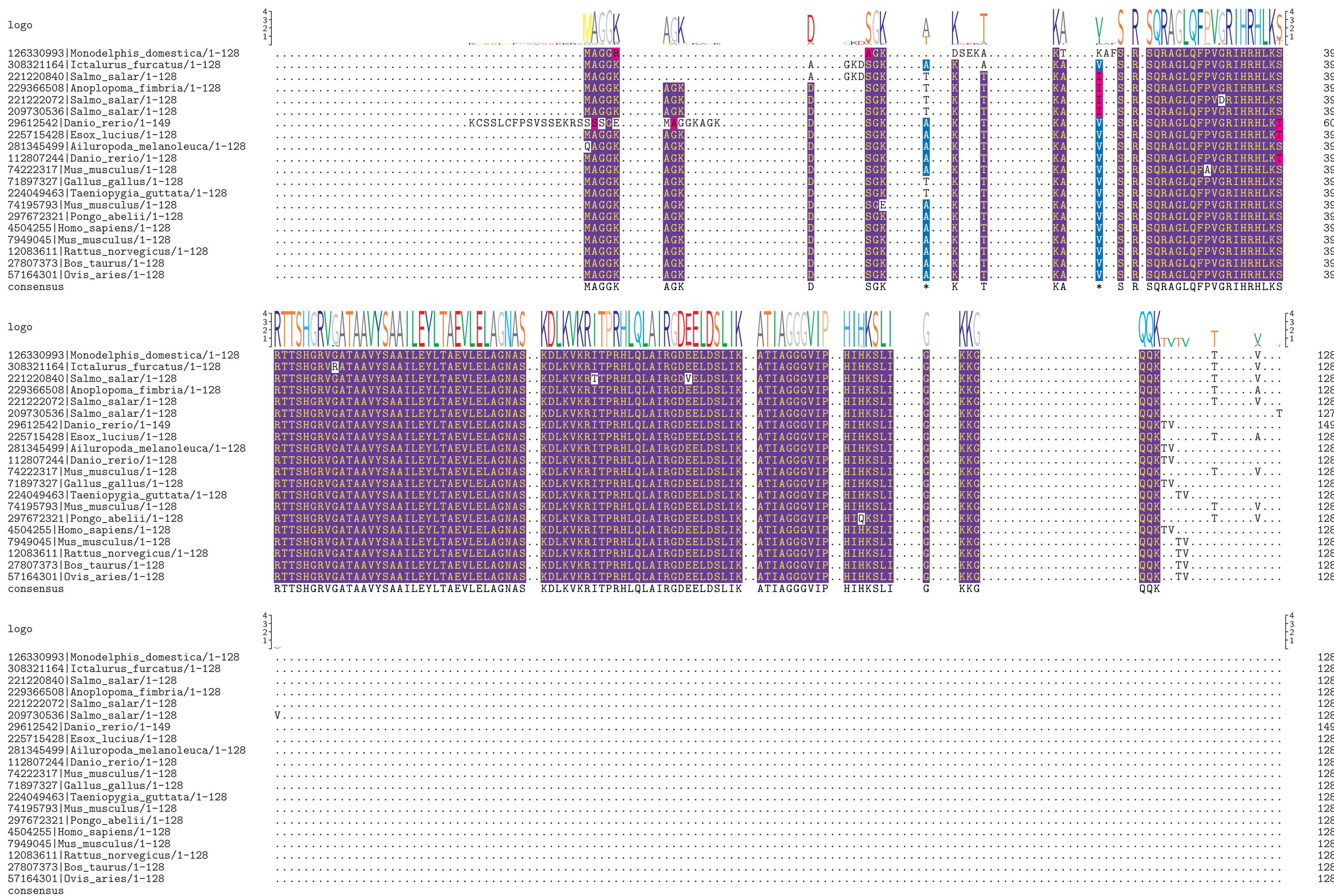
█ non conserved  
█ similar  
█ ≥ 50% conserved  
█ ≥ 80% conserved

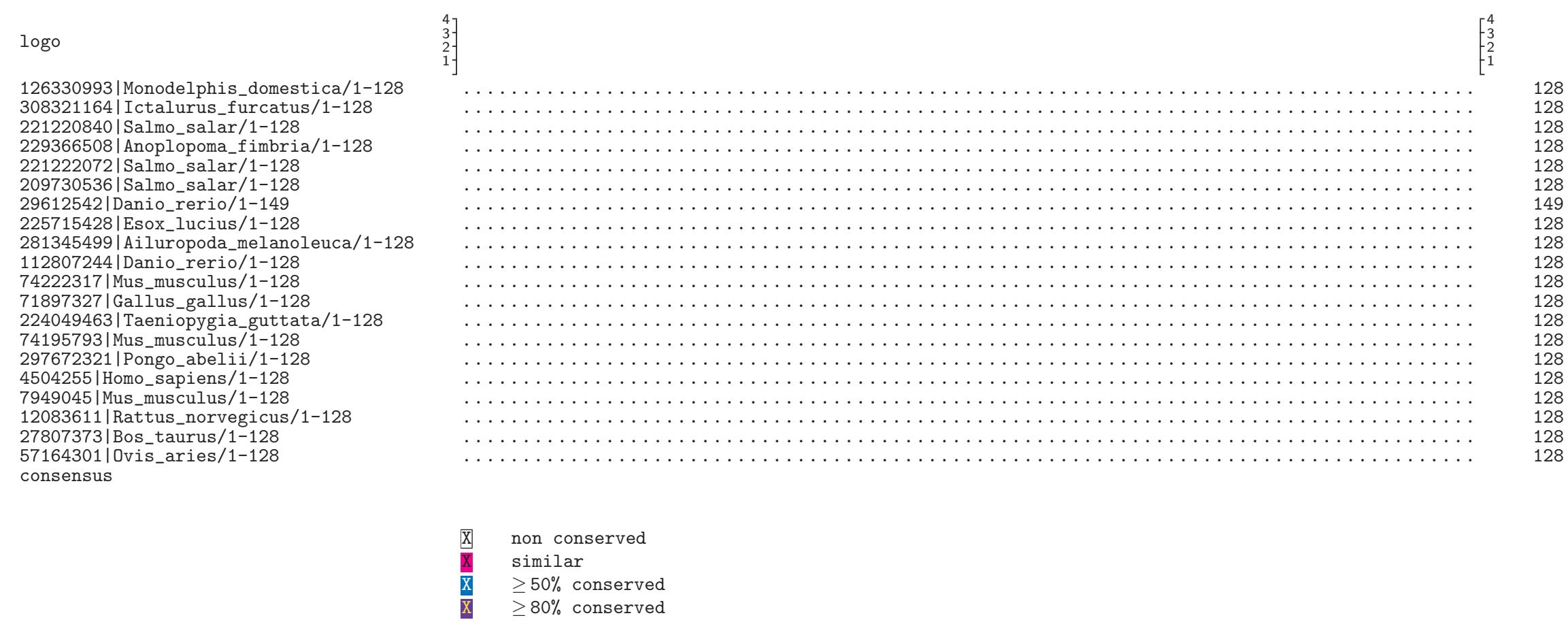


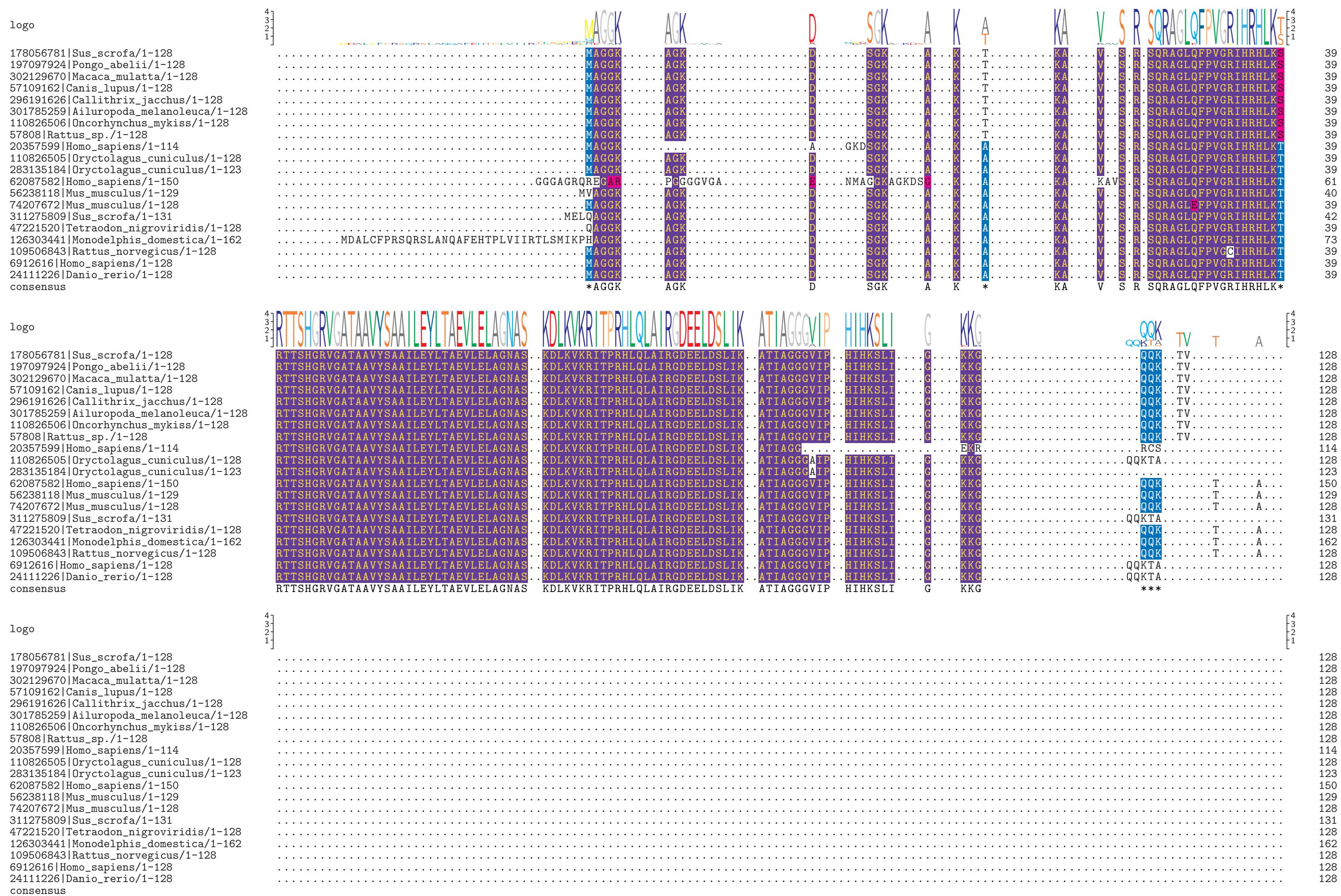


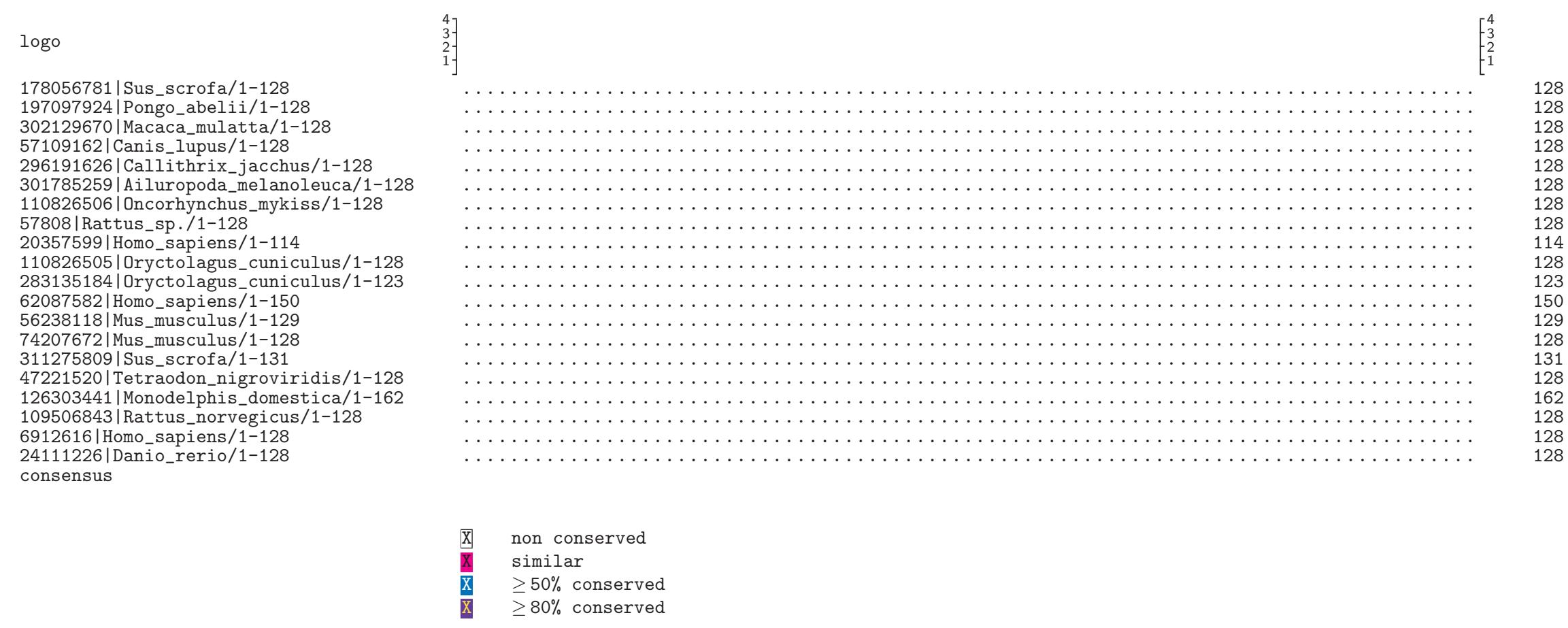


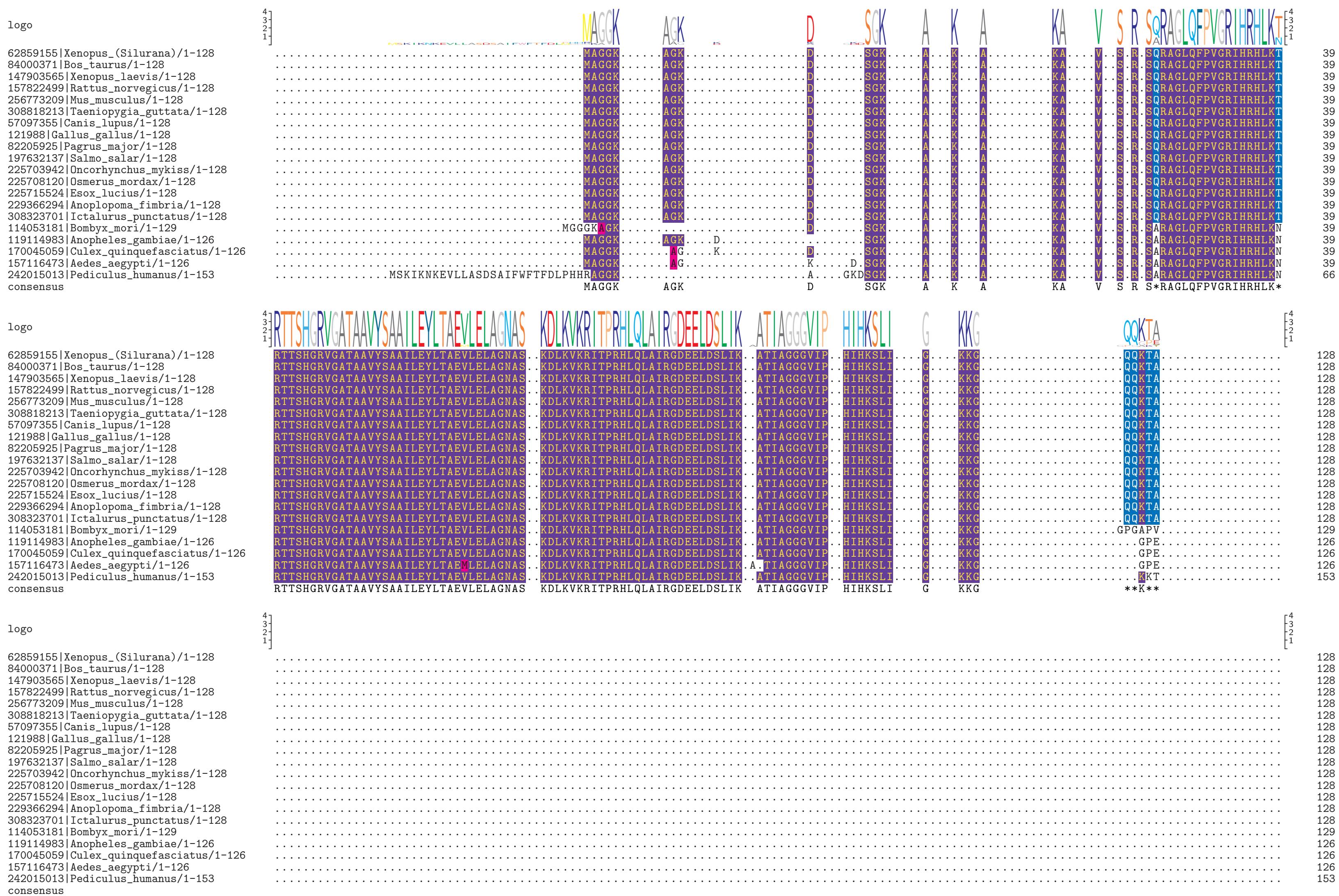


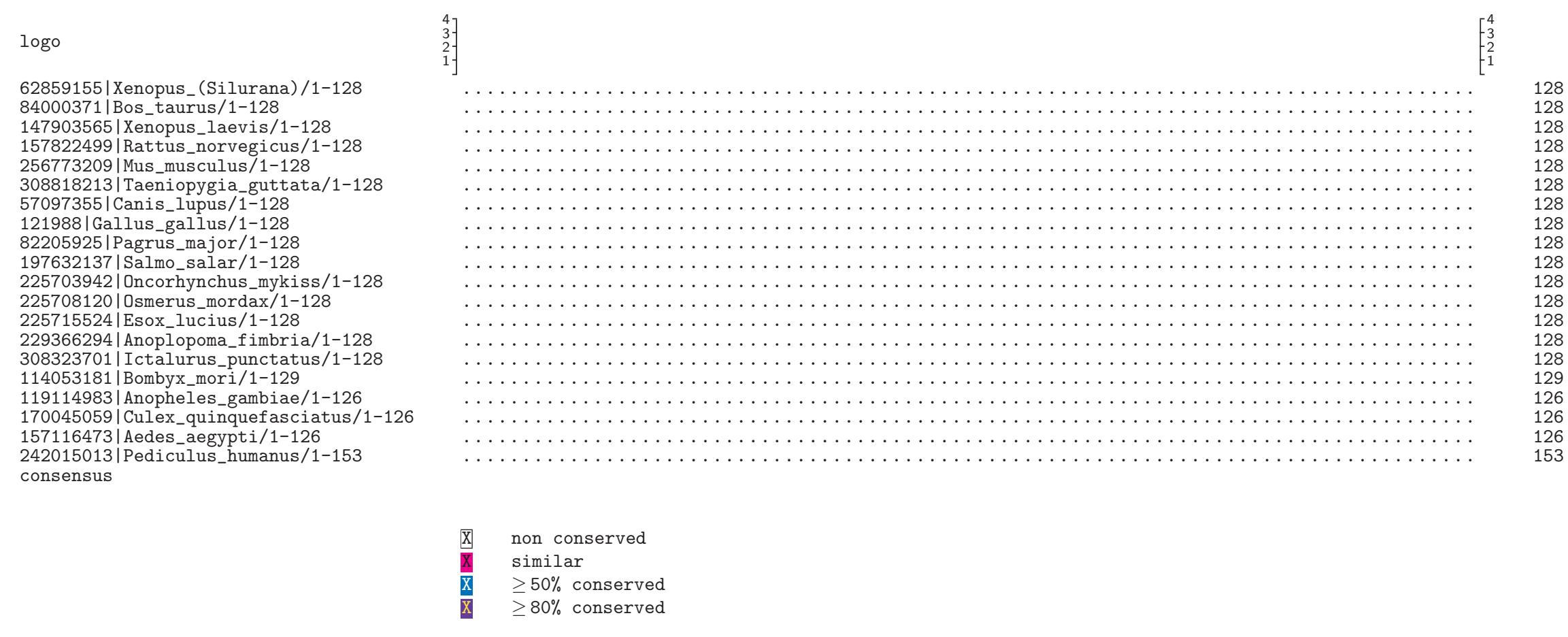


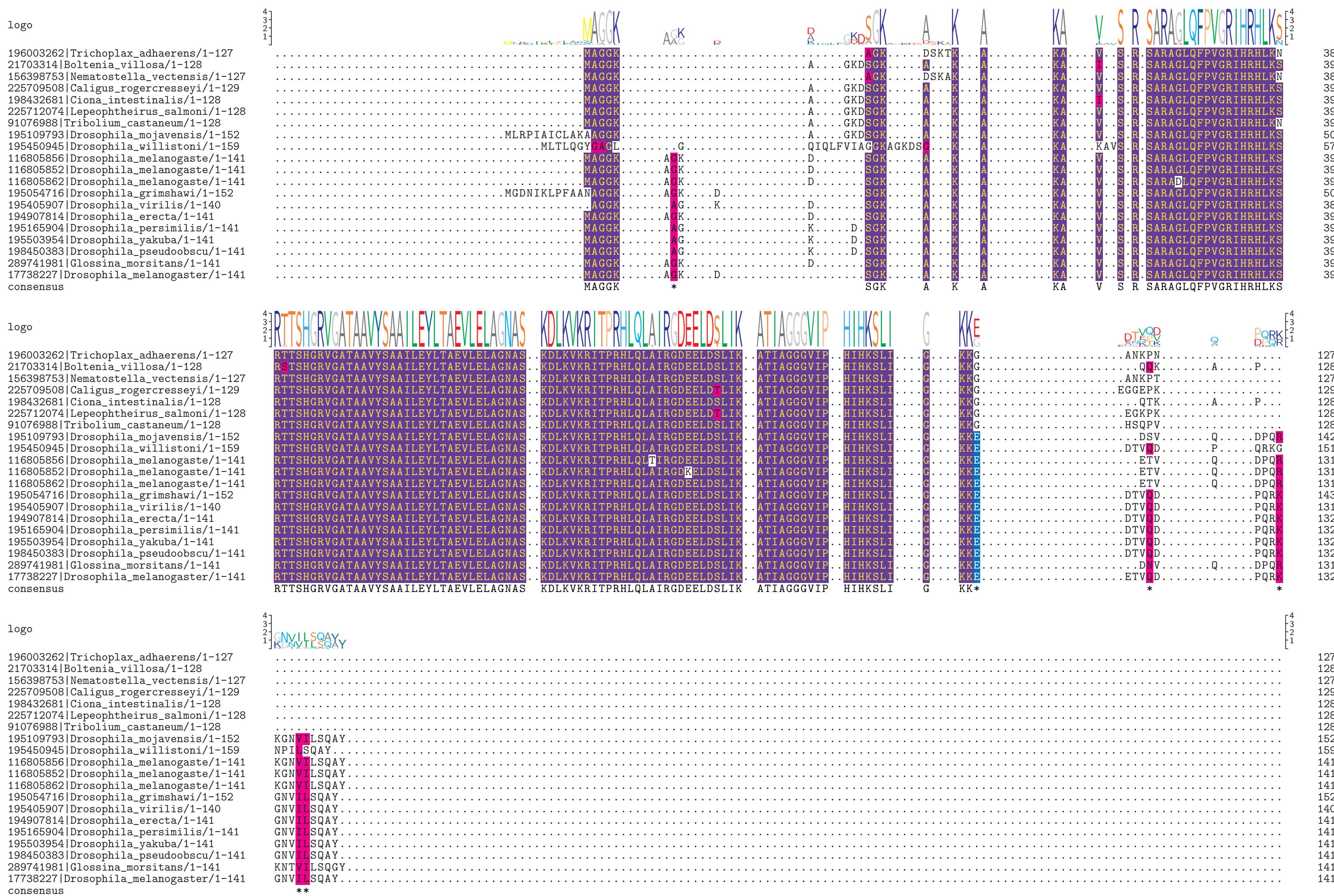


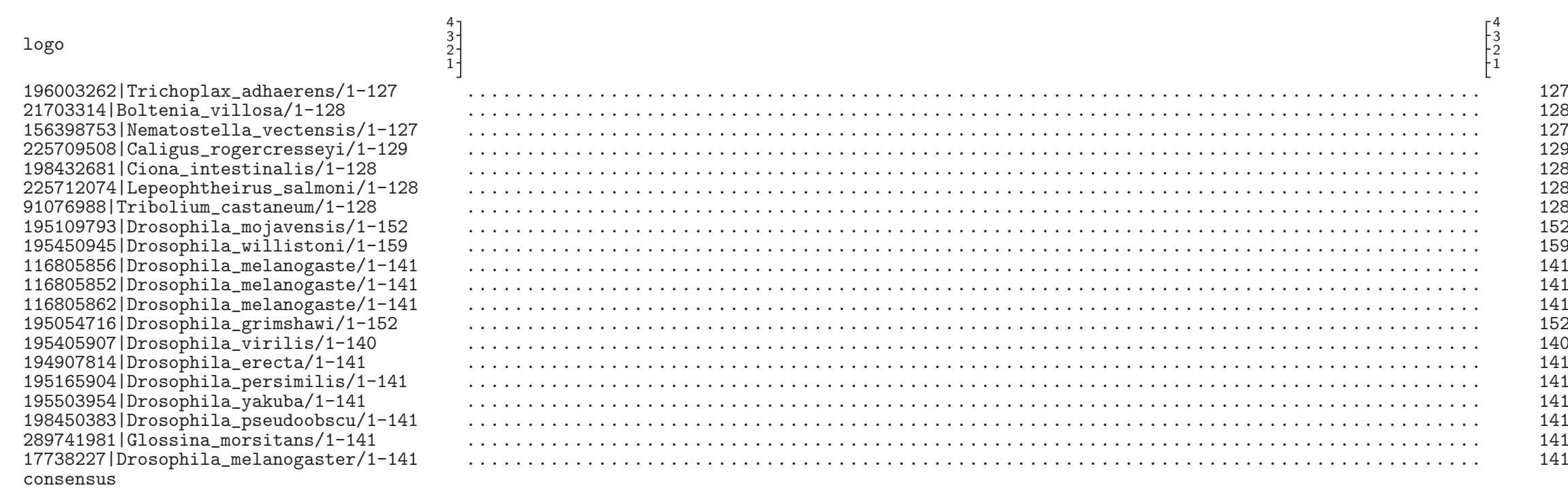




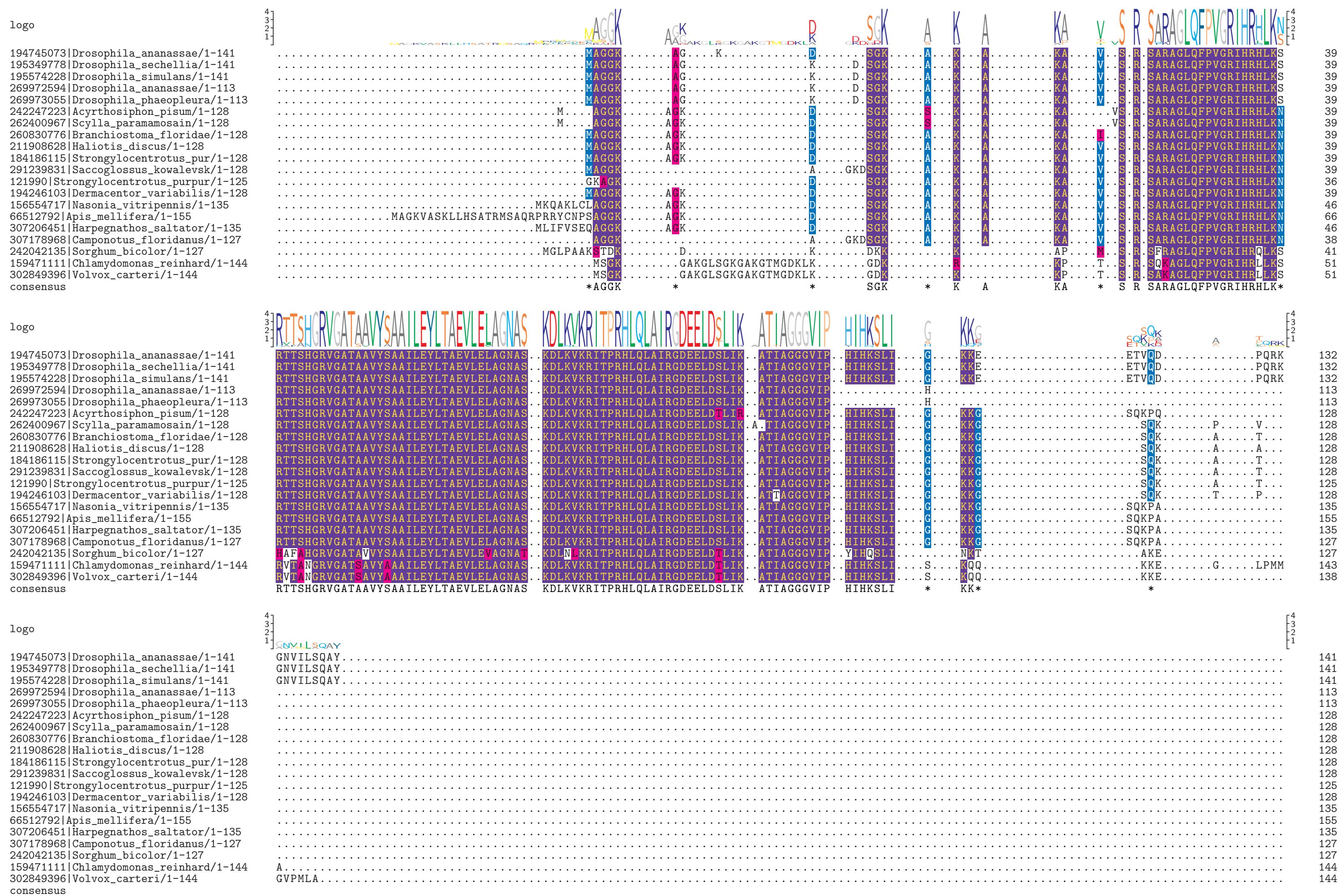


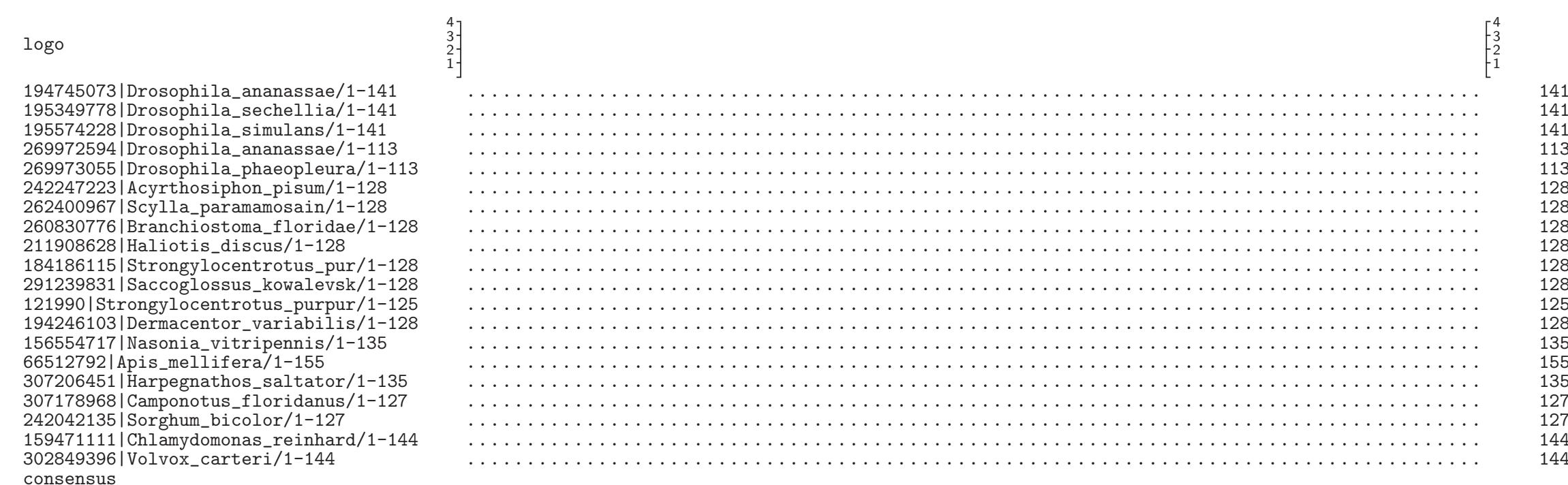




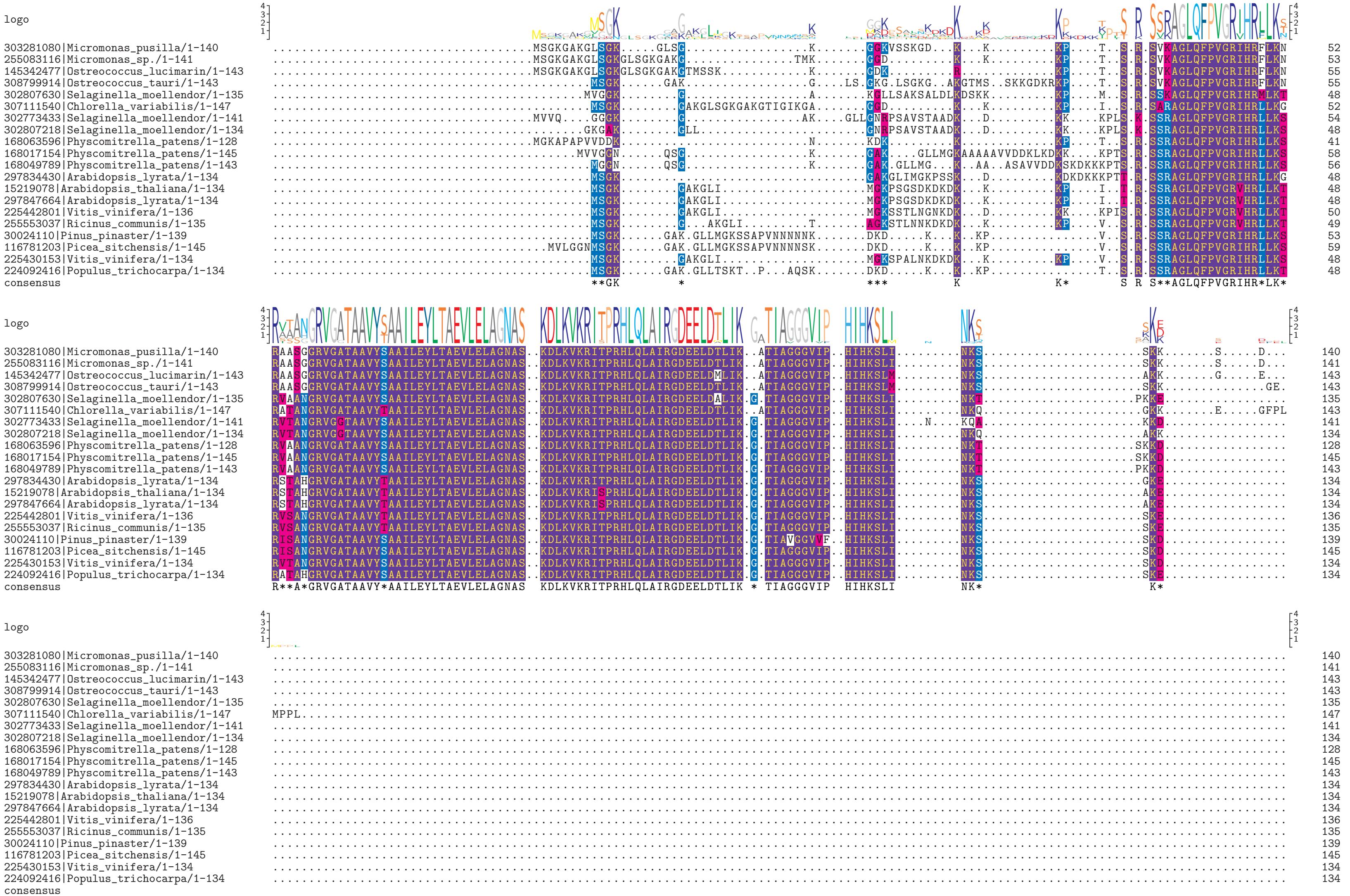


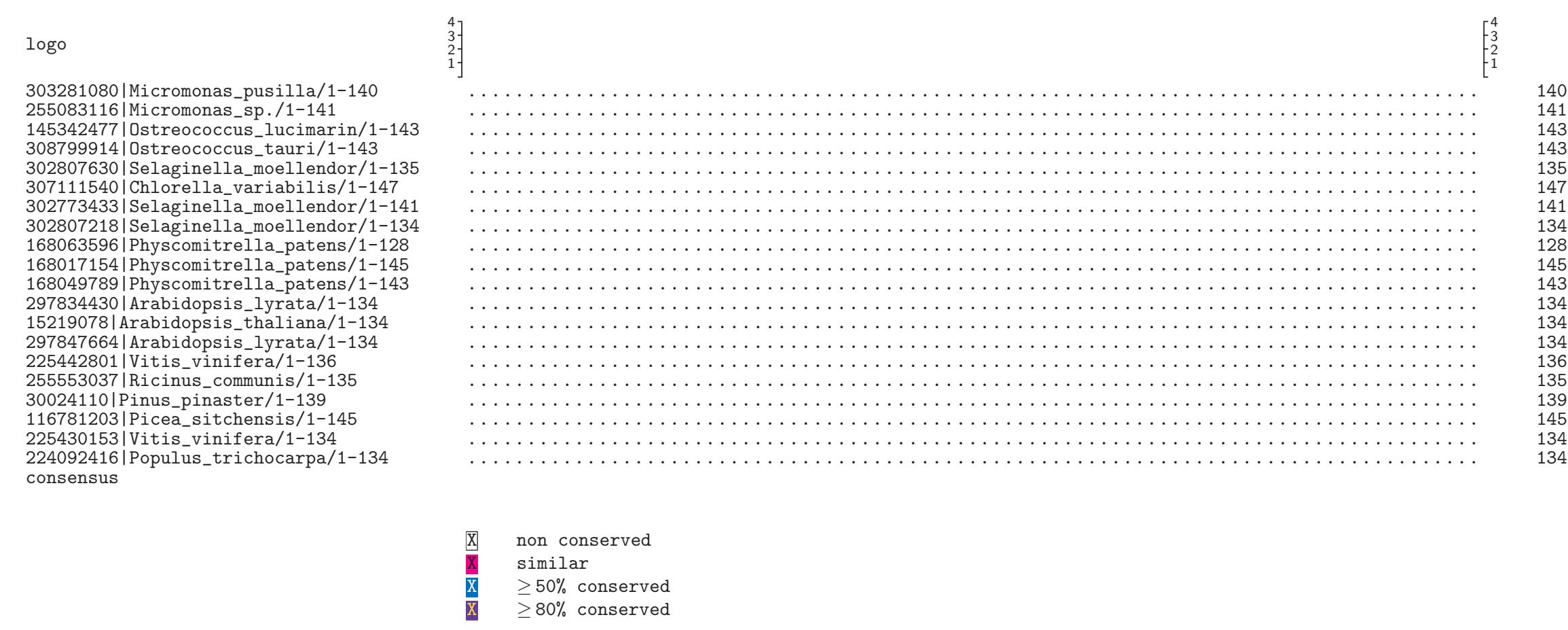
non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved

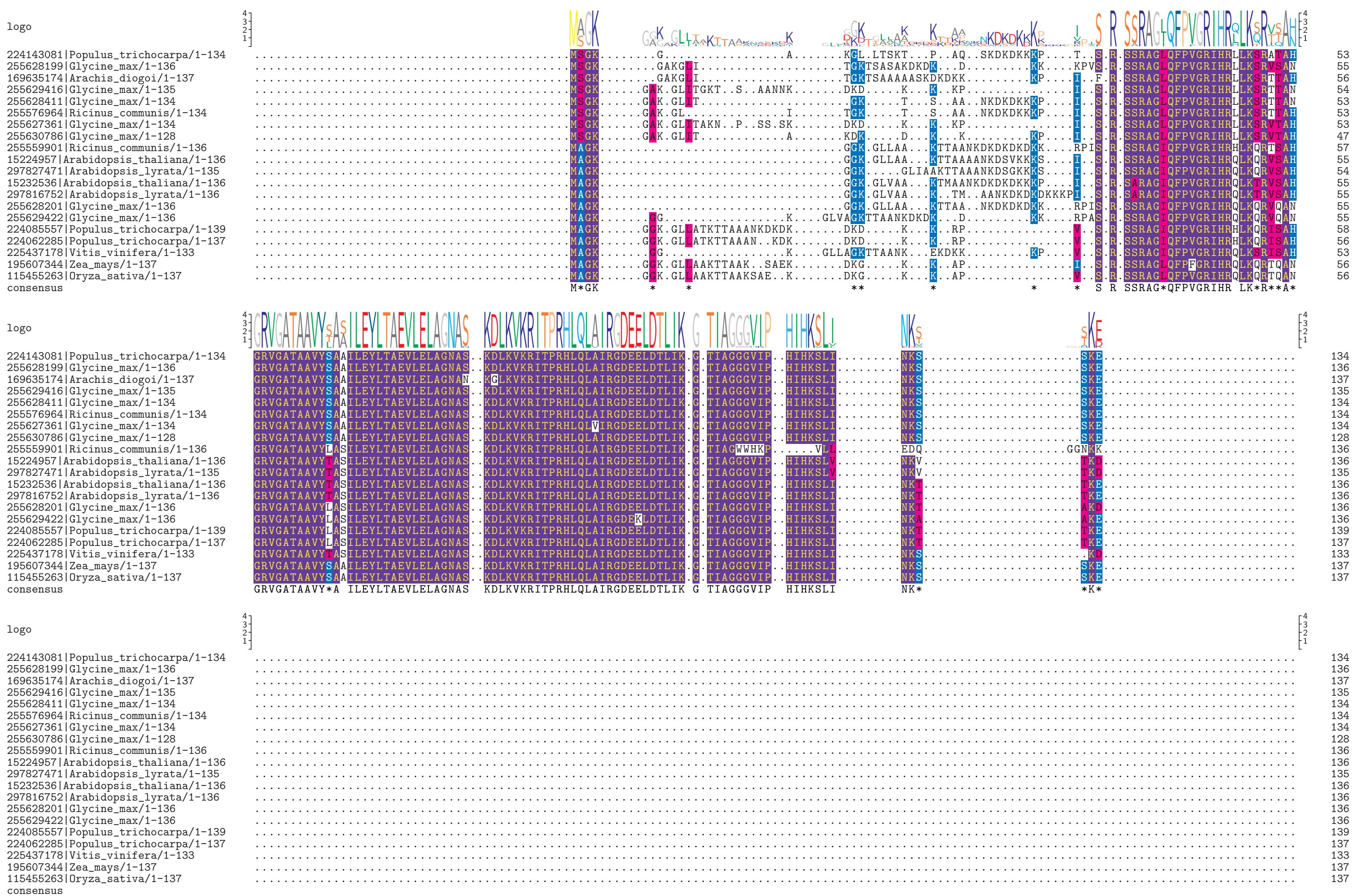


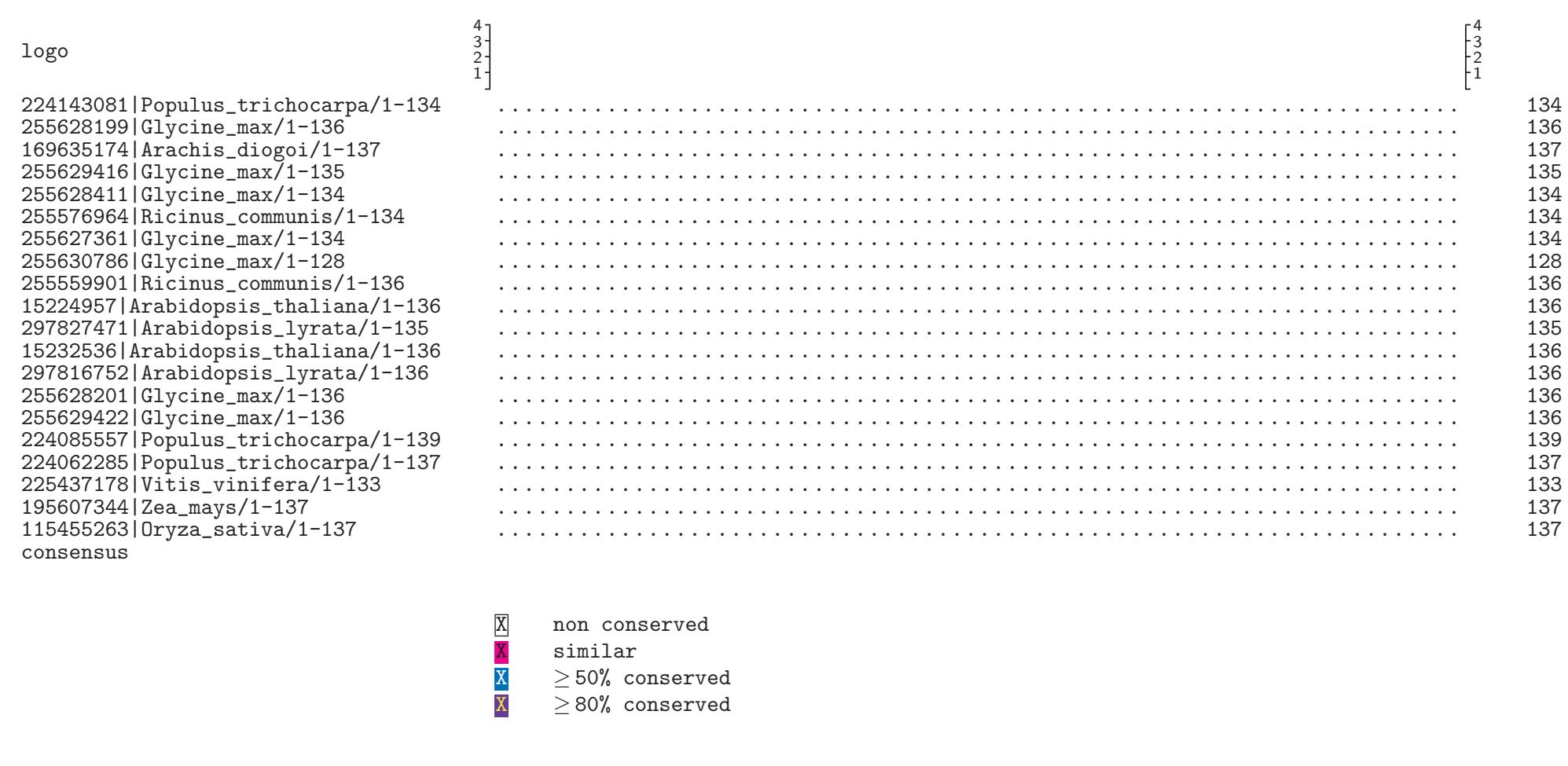


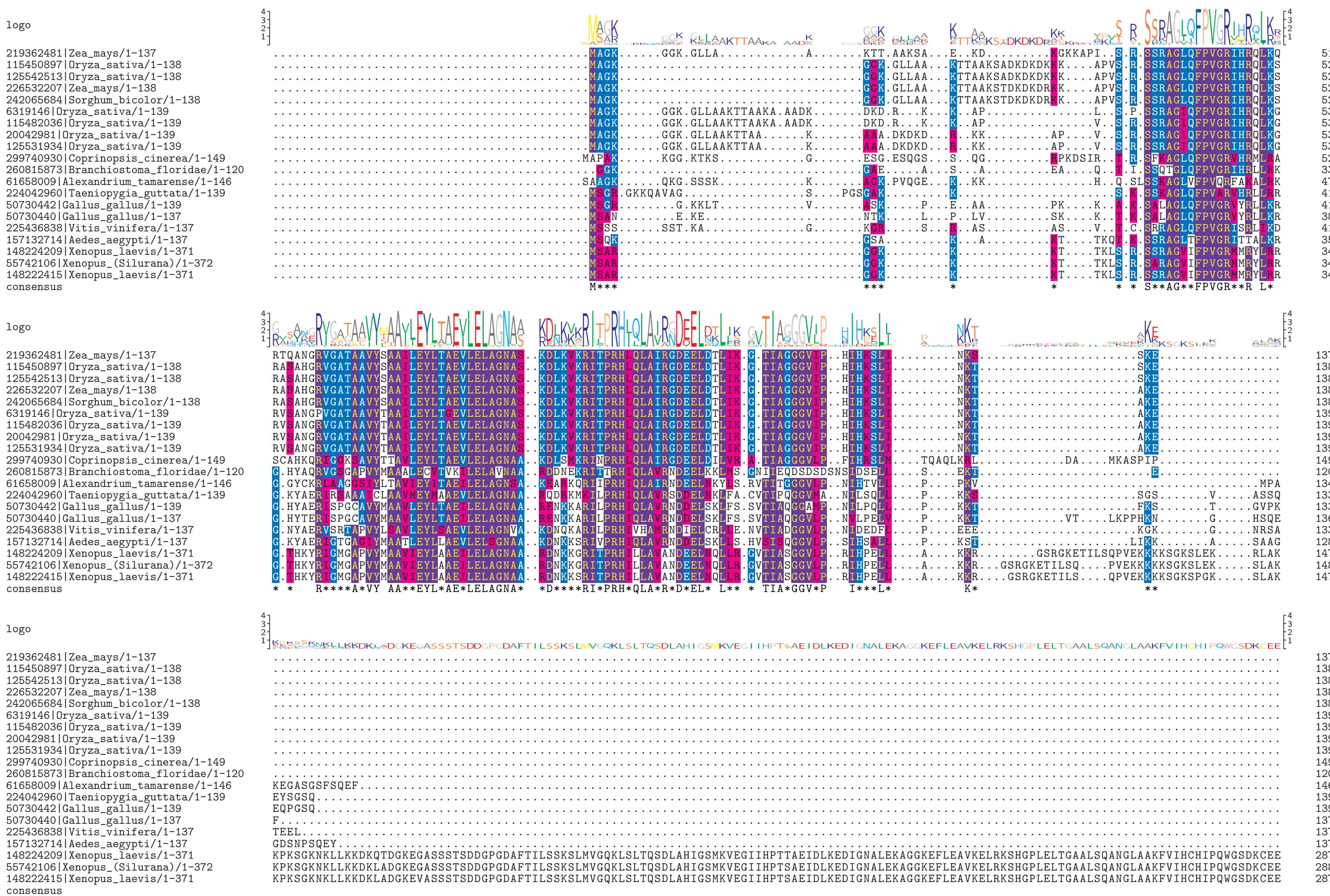
non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved



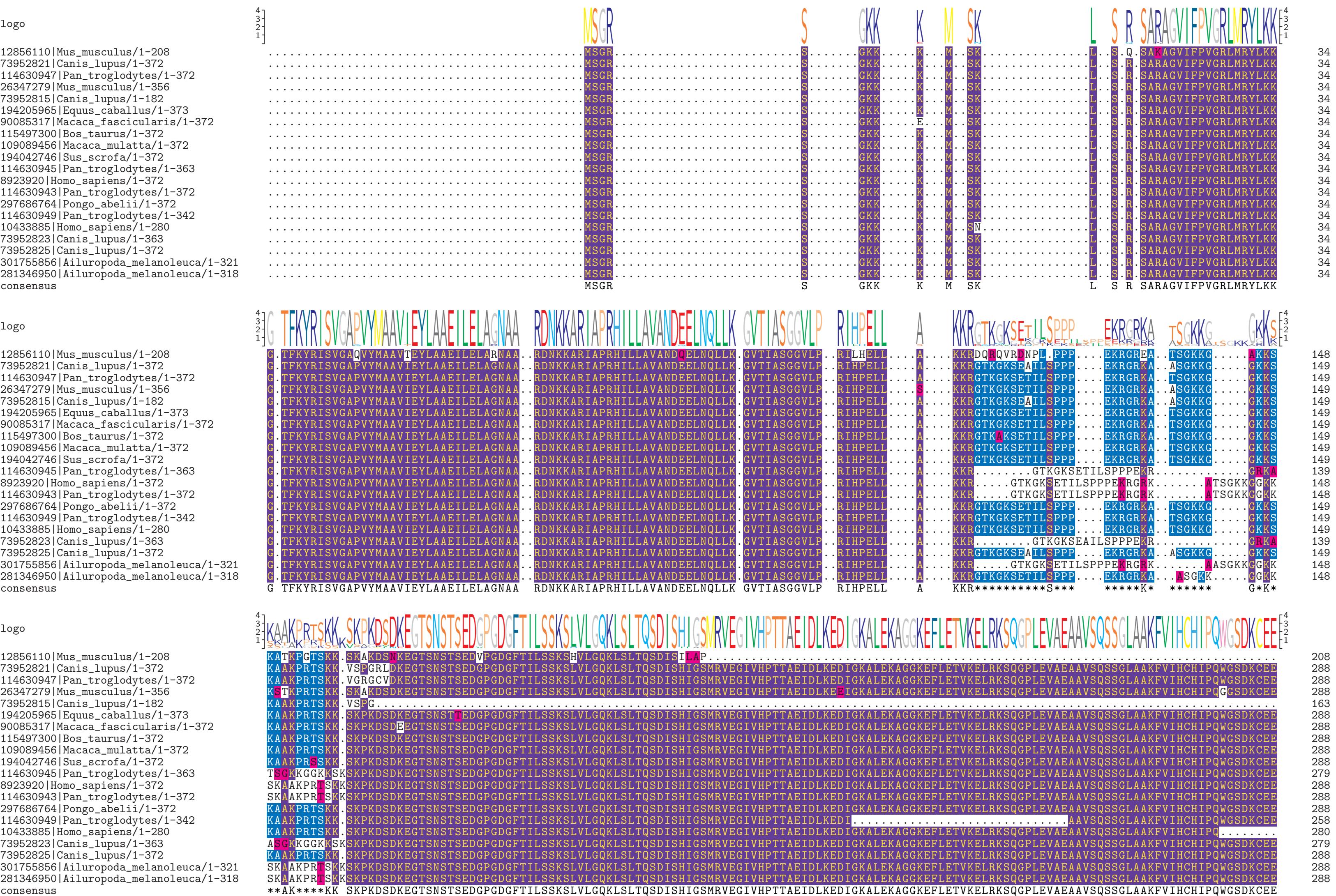










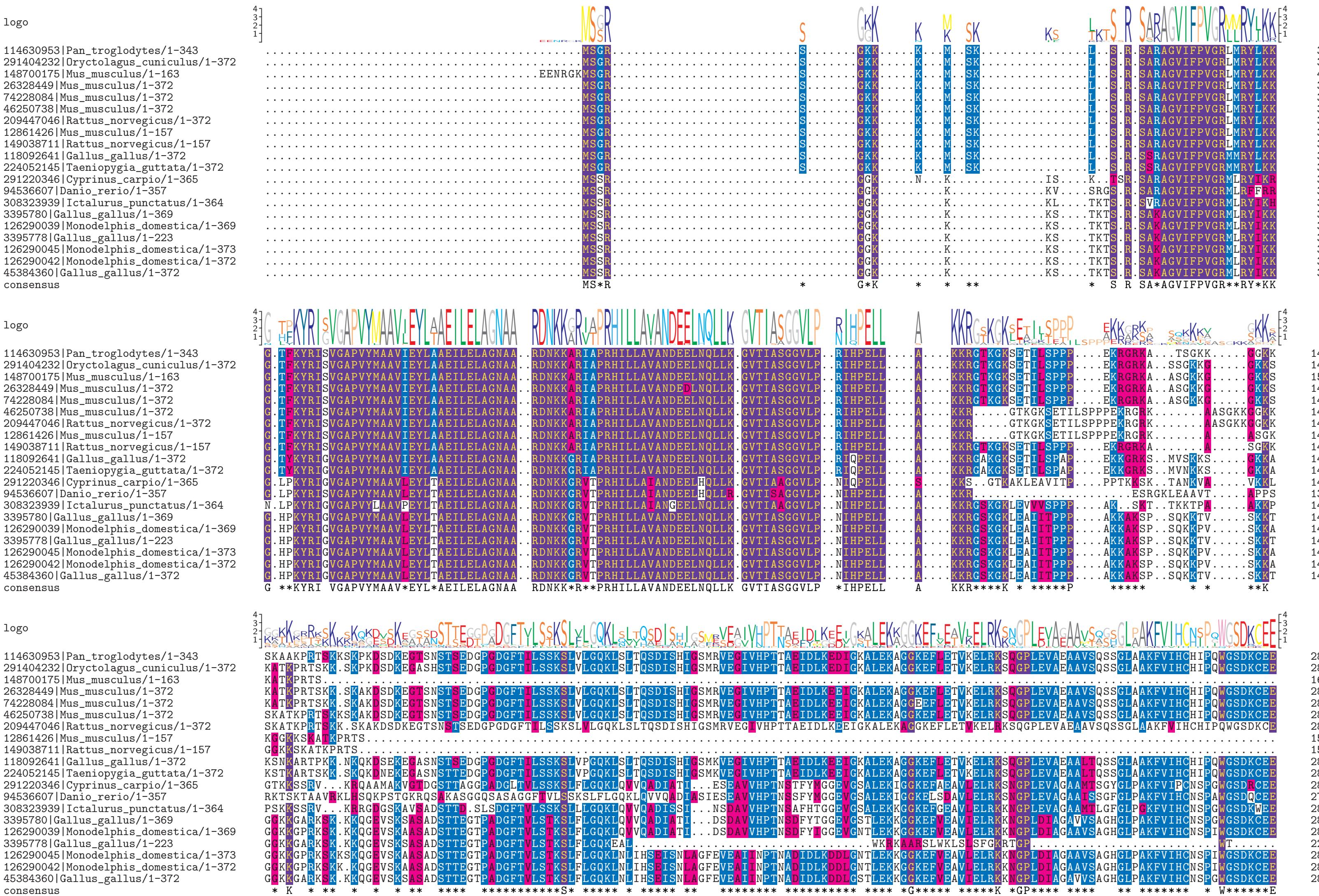


logc

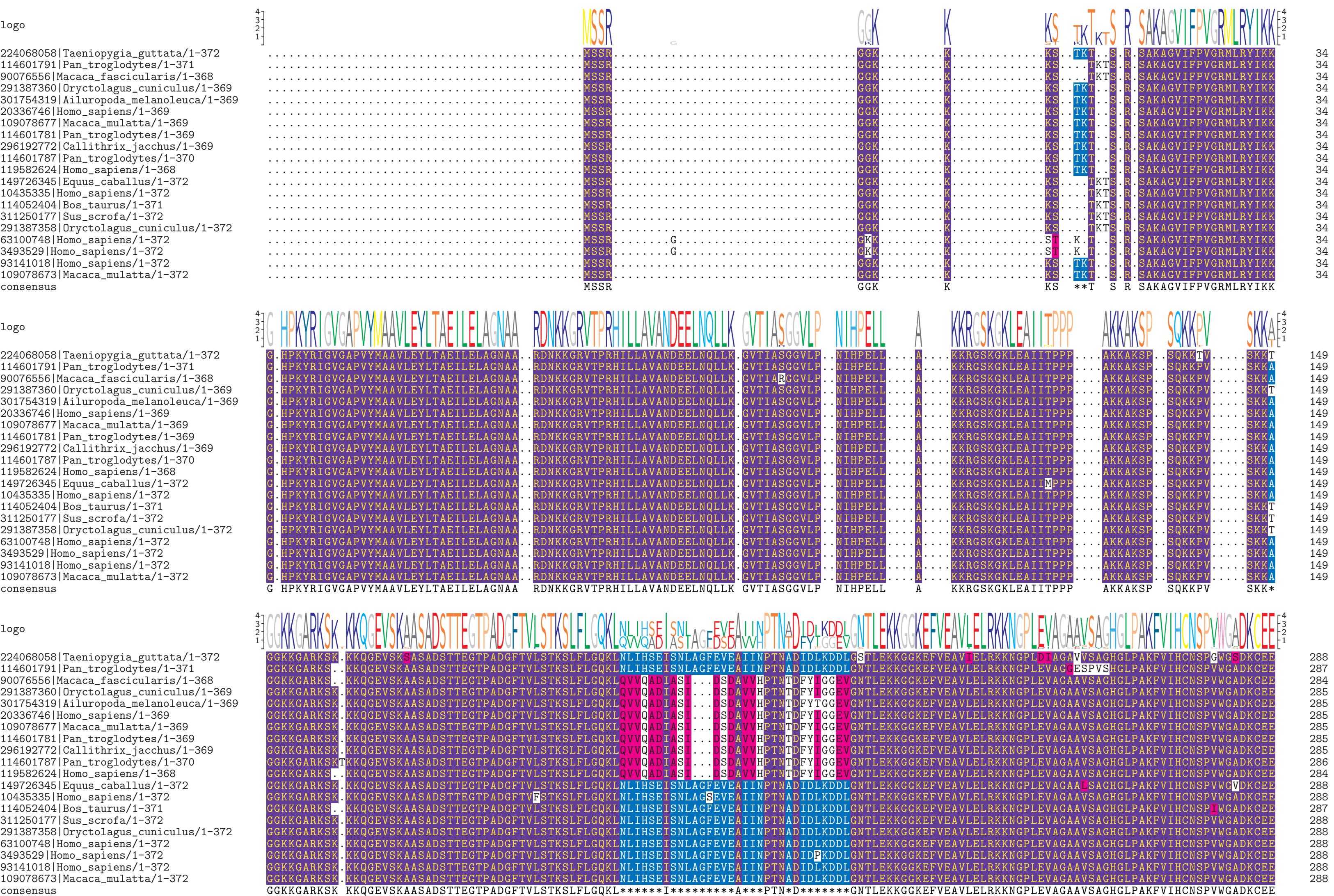
12856110|Mus\_musculus/1-208  
73952821|Canis\_lupus/1-372  
114630947|Pan\_troglodytes/1-372  
26347279|Mus\_musculus/1-356  
73952815|Canis\_lupus/1-182  
194205965|Equus\_caballus/1-373  
90085317|Macaca\_fascicularis/1-372  
115497300|Bos\_taurus/1-372  
109089456|Macaca\_mulatta/1-372  
194042746|Sus\_scrofa/1-372  
114630945|Pan\_troglodytes/1-363  
8923920|Homo\_sapiens/1-372  
114630943|Pan\_troglodytes/1-372  
297686764|Pongo\_abelii/1-372  
114630949|Pan\_troglodytes/1-342  
10433885|Homo\_sapiens/1-280  
73952823|Canis\_lupus/1-363  
73952825|Canis\_lupus/1-372  
301755856|Ailuropoda\_melanoleuca/1-321  
281346950|Ailuropoda\_melanoleuca/1-318  
consensus

20  
37  
37  
35  
18  
37  
37  
37  
37  
37  
36  
37  
37  
37  
34  
28  
36  
37  
32  
31

- █ non conserved
- █ similar
- █ ≥ 50% conserved
- █ ≥ 80% conserved



X	non conserved
X	similar
X	$\geq 50\%$ conserved
X	$\geq 80\%$ conserved

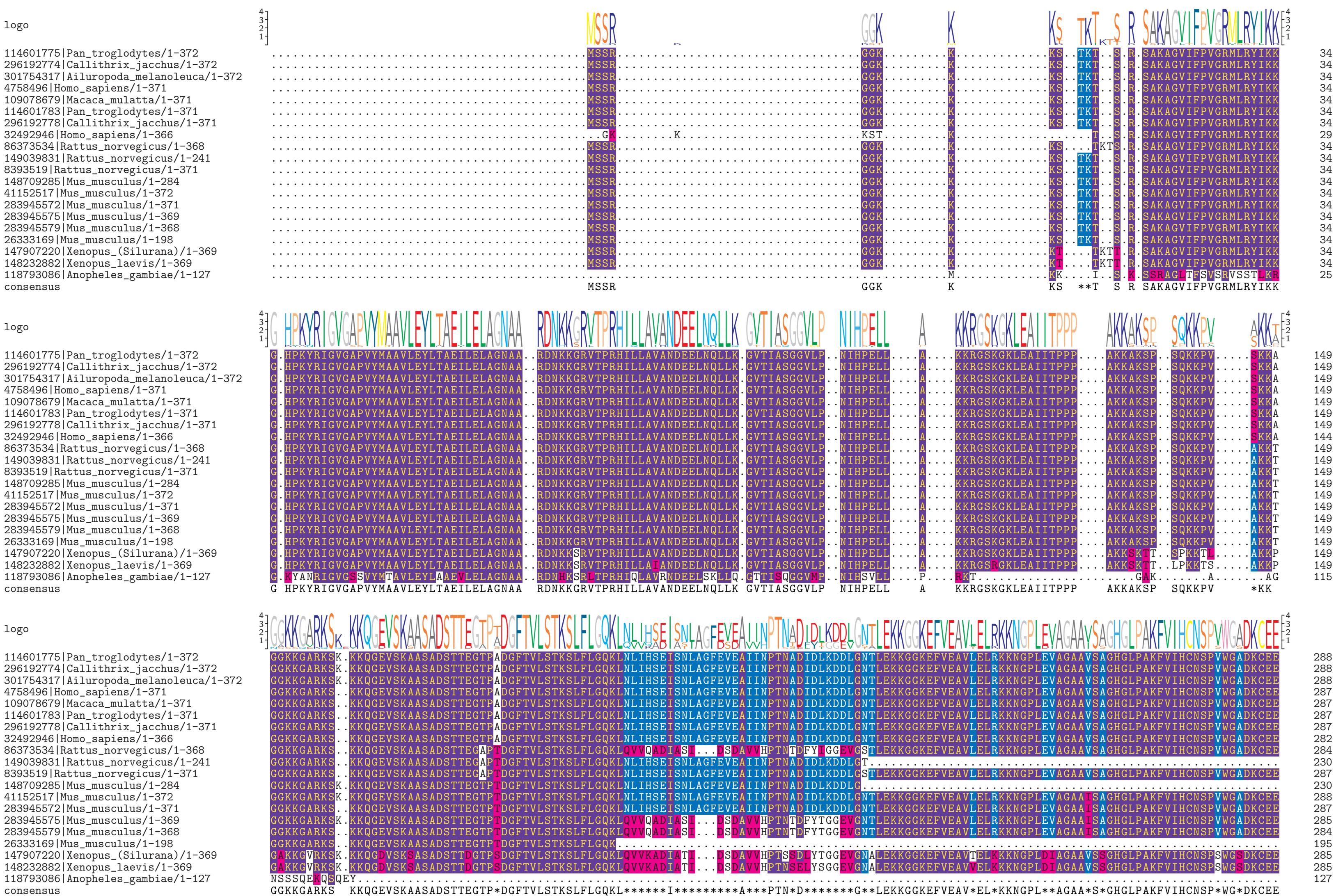


logc

224068058|*Taeniopygia\_guttata*/1-372  
114601791|*Pan\_troglodytes*/1-371  
90076556|*Macaca\_fascicularis*/1-368  
291387360|*Oryctolagus\_cuniculus*/1-369  
301754319|*Ailuropoda\_melanoleuca*/1-369  
20336746|*Homo\_sapiens*/1-369  
109078677|*Macaca\_mulatta*/1-369  
114601781|*Pan\_troglodytes*/1-369  
296192772|*Callithrix\_jacchus*/1-369  
114601787|*Pan\_troglodytes*/1-370  
119582624|*Homo\_sapiens*/1-368  
149726345|*Equus\_caballus*/1-372  
10435335|*Homo\_sapiens*/1-372  
114052404|*Bos\_taurus*/1-371  
311250177|*Sus\_scrofa*/1-372  
291387358|*Oryctolagus\_cuniculus*/1-372  
63100748|*Homo\_sapiens*/1-372  
3493529|*Homo\_sapiens*/1-372  
93141018|*Homo\_sapiens*/1-372  
109078673|*Macaca\_mulatta*/1-372  
consensus

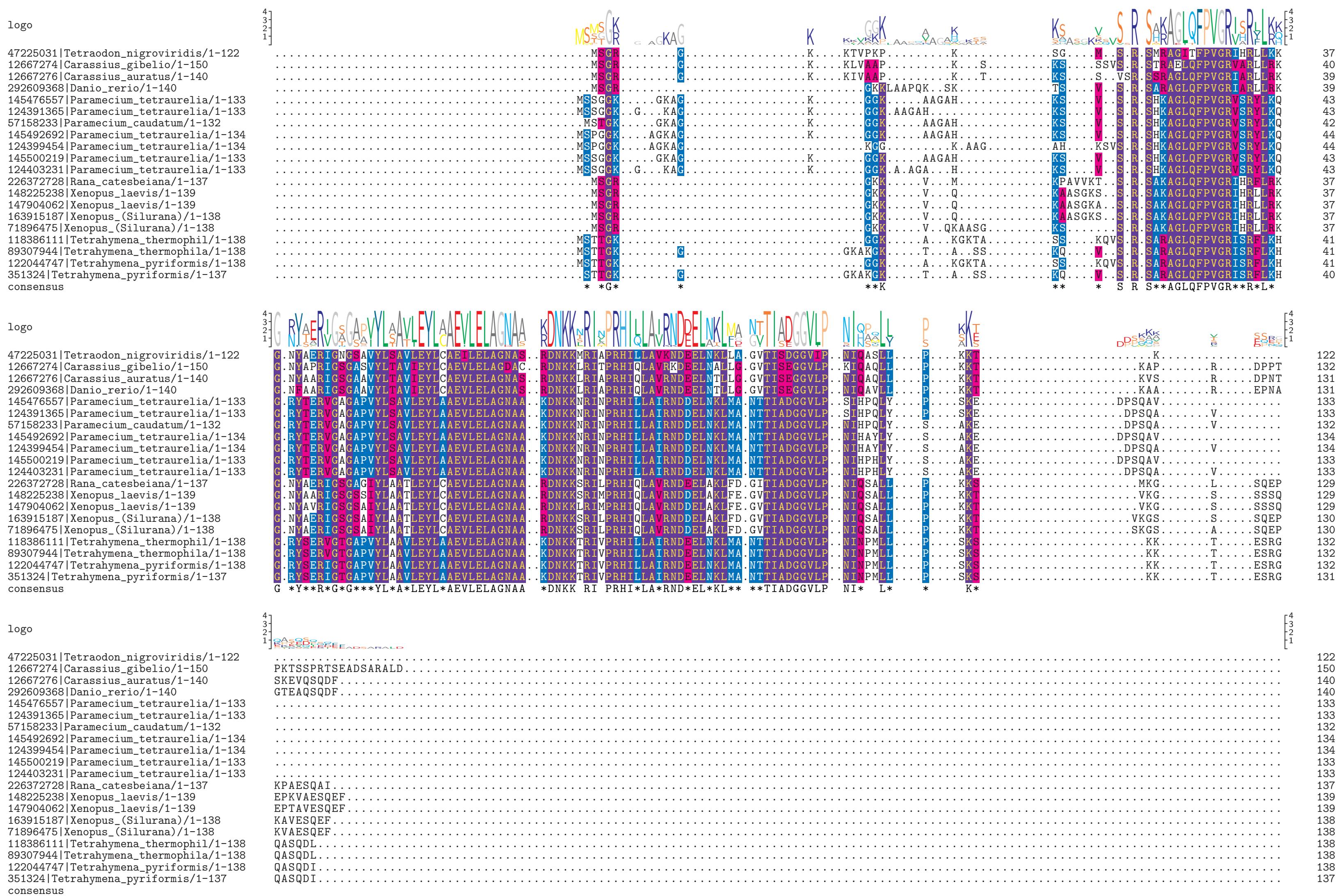
372  
371  
368  
369  
369  
369  
369  
369  
369  
370  
368  
372  
372  
371  
372  
372  
372  
372  
372  
372

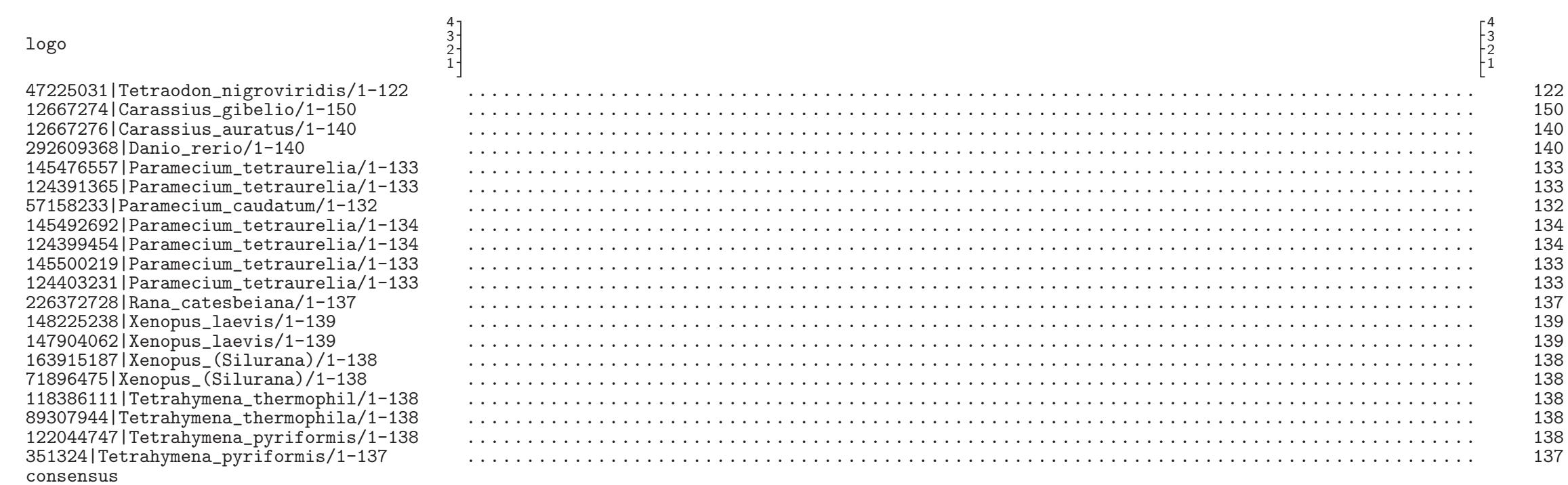
 non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved



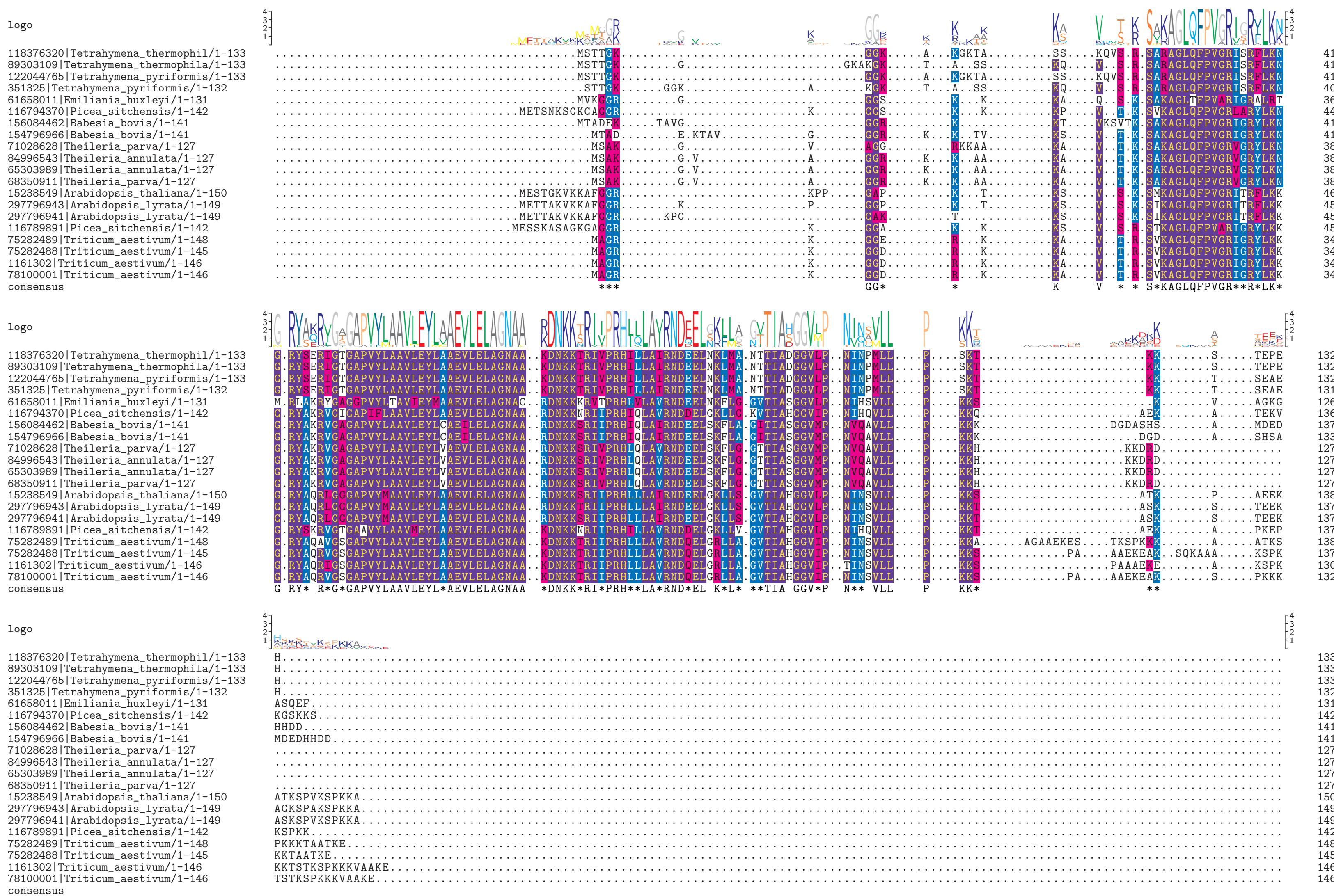
Sequence logo showing conservation of amino acids across 18 protein sequences. The x-axis represents position 1 to 372. The y-axis lists species and their lengths. A legend at the bottom indicates four levels of conservation: non-conserved (grey), similar (pink), >50% conserved (blue), and >80% conserved (yellow).

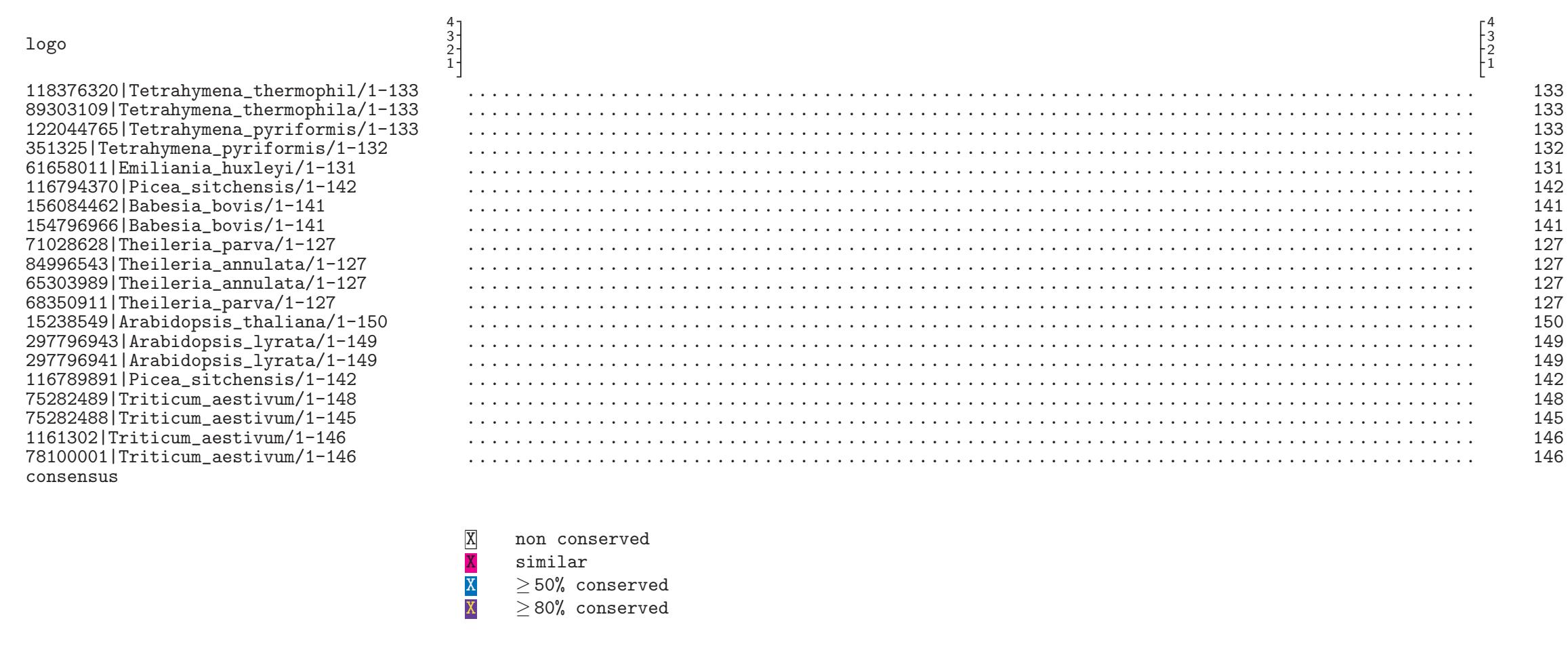
Species	Length	Sequence
114601775   Pan_troglodytes / 1-372	372	LLEKTVKNCLALADDKKLKSIAFPSIGS
296192774   Callithrix_jacchus / 1-372	372	LLEKTVKNCLALADDKKLKSIAFPSIGS
301754317   Ailuropoda_melanoleuca / 1-372	372	LLEKTVKNCLALADDKKLKSIAFPSIGS
4758496   Homo_sapiens / 1-371	371	LLEKTVKNCLALADDKKLKSIAFPSIGS
109078679   Macaca_mulatta / 1-371	371	LLEKTVKNCLALADDKKLKSIAFPSIGS
114601783   Pan_troglodytes / 1-371	371	LLEKTVKNCLALADDKKLKSIAFPSIGS
296192778   Callithrix_jacchus / 1-371	371	LLEKTVKNCLALADDKKLKSIAFPSIGS
32492946   Homo_sapiens / 1-366	366	LLEKTVKNCLALADDKKLKSIAFPSIGS
86373534   Rattus_norvegicus / 1-368	368	LLEKTVKNCLALADDKKLKSIAFPSIGS
149039831   Rattus_norvegicus / 1-241	241	..... G SRSRQPPNSF .....
8393519   Rattus_norvegicus / 1-371	371	LLEKTVKNCLALADDKKLKSIAFPSIGS
148709285   Mus_musculus / 1-284	284	..... NGFPKQTAQLILKAISYYFVSTMSSSIKTVYFMLFDSESESIGIYVQEMAKLDAN
41152517   Mus_musculus / 1-372	372	LLEKTVKNCLALADDKKLKSIAFPSIGS
283945572   Mus_musculus / 1-371	371	LLEKTVKNCLALADDKKLKSIAFPSIGS
283945575   Mus_musculus / 1-369	369	LLEKTVKNCLALADDKKLKSIAFPSIGS
283945579   Mus_musculus / 1-368	368	LLEKTVKNCLALADDKKLKSIAFPSIGS
26333169   Mus_musculus / 1-198	198	..... PPQ .....
147907220   Xenopus_(Silurana) / 1-369	369	LLEKTVKNCLALADEKKIKSIAFPSIGS
148232882   Xenopus_laevis / 1-369	369	LLEKTVKNCLALADEKKIKSIAFPSIGS
118793086   Anopheles_gambiae / 1-127	127	.....
consensus		LLEKTVKNCLALAD**K*KSIAFPSIGS

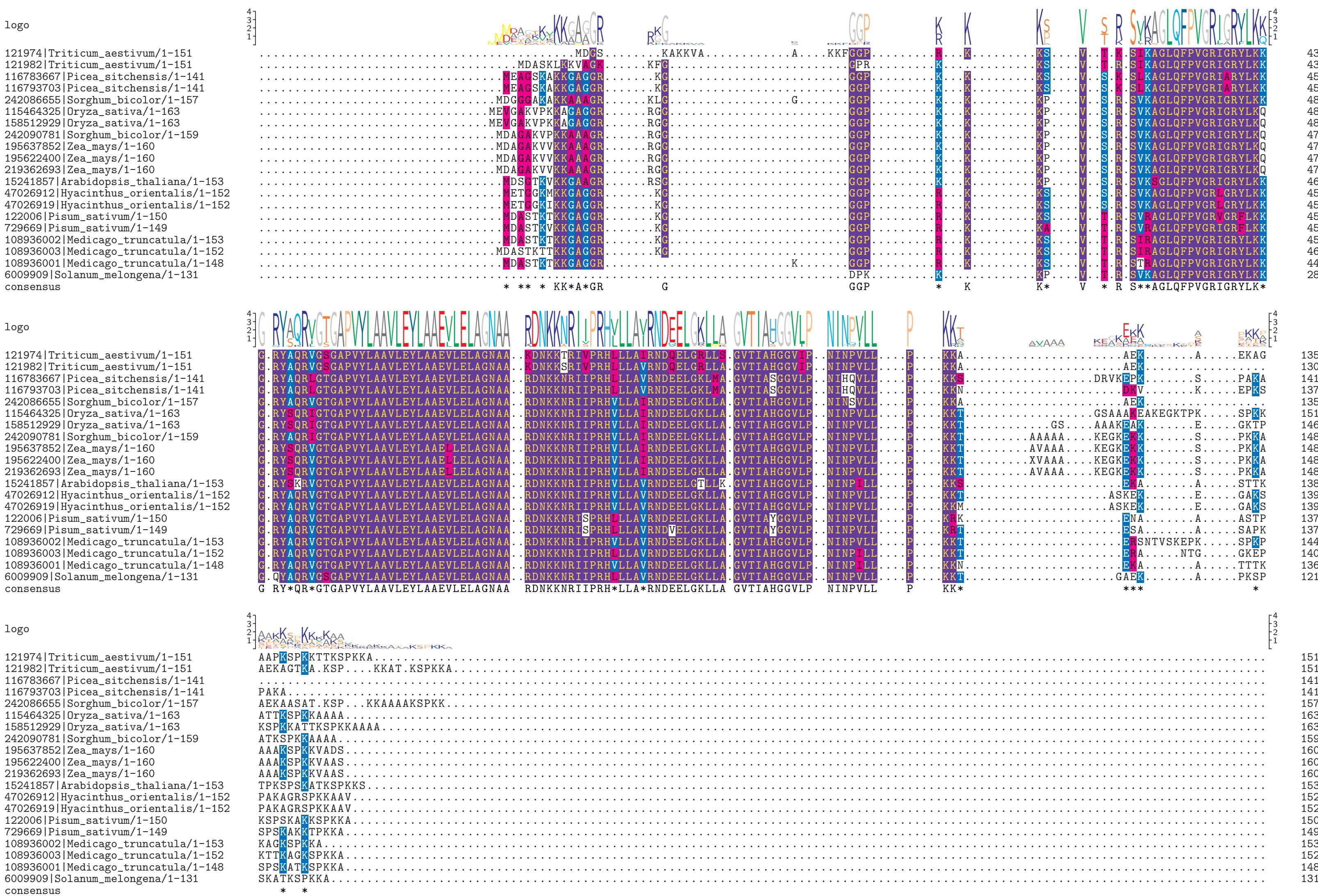


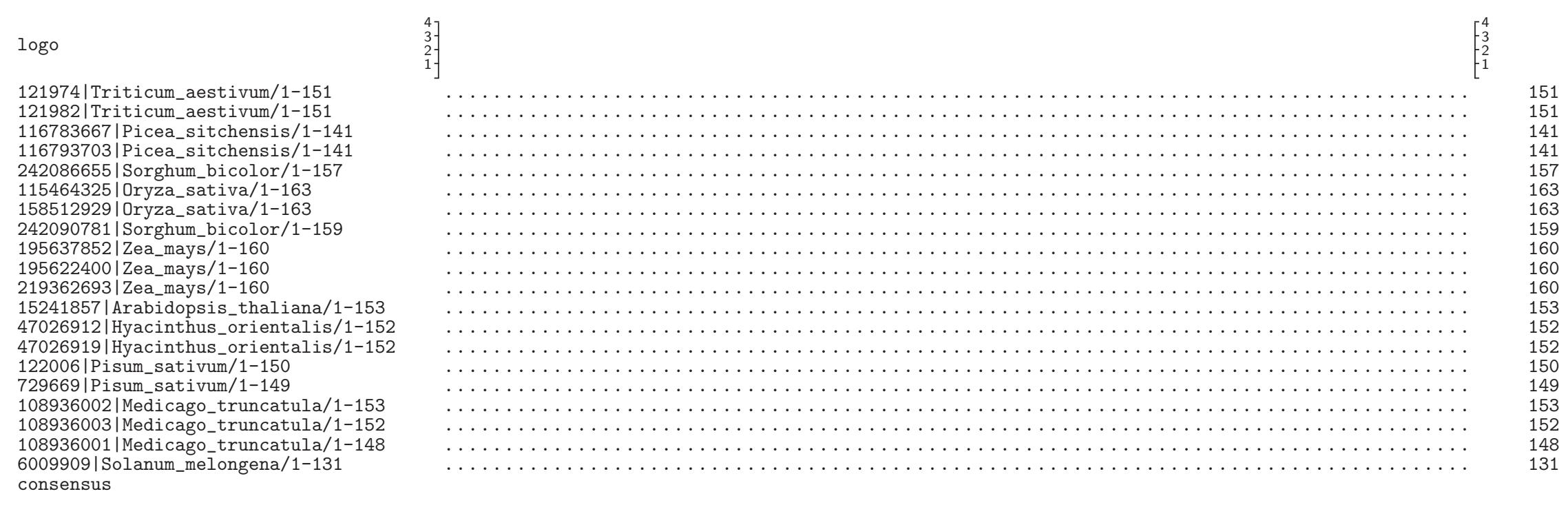


non conserved  
 similar  
 $\geq 50\%$  conserved  
 $\geq 80\%$  conserved

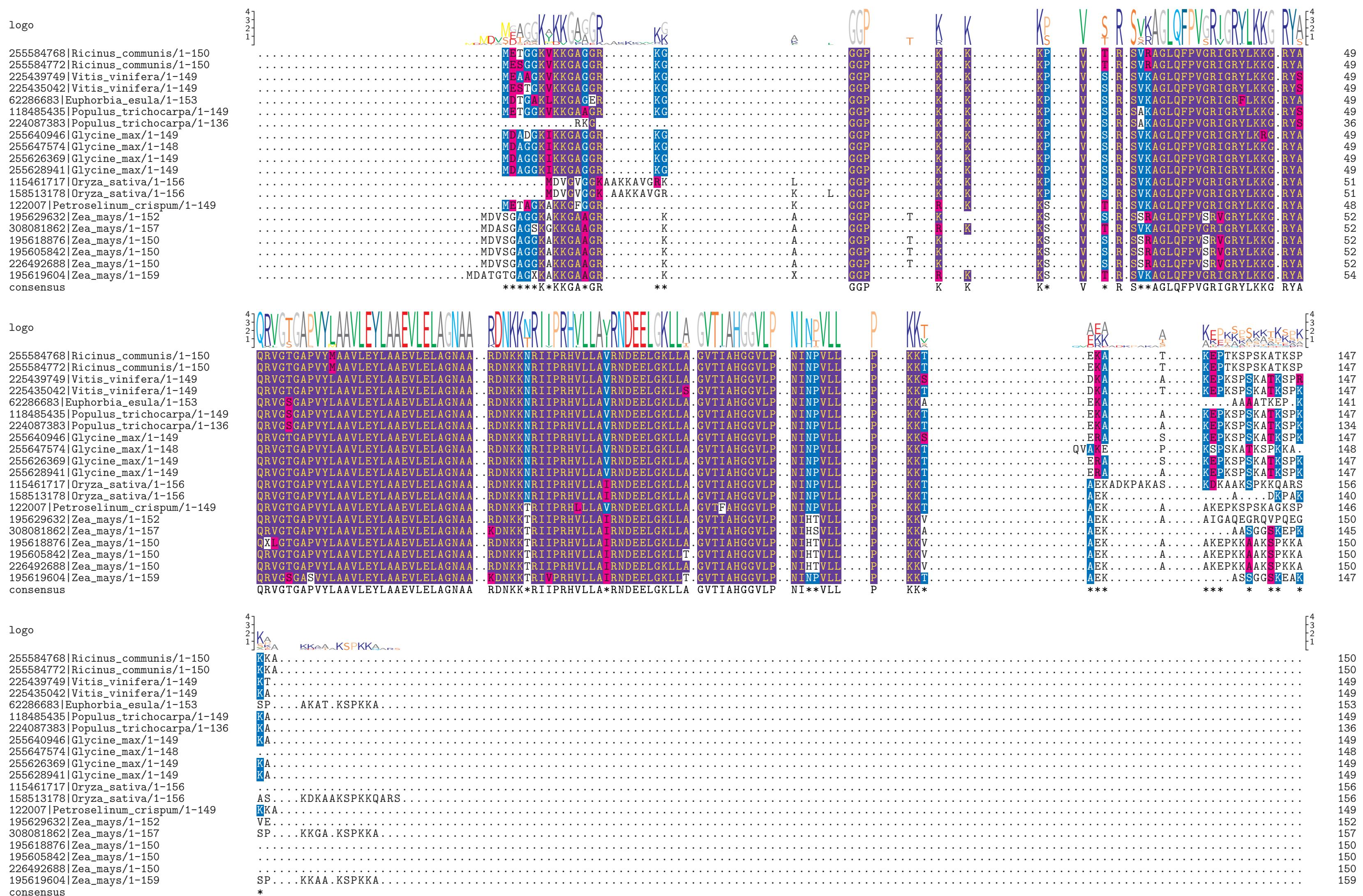


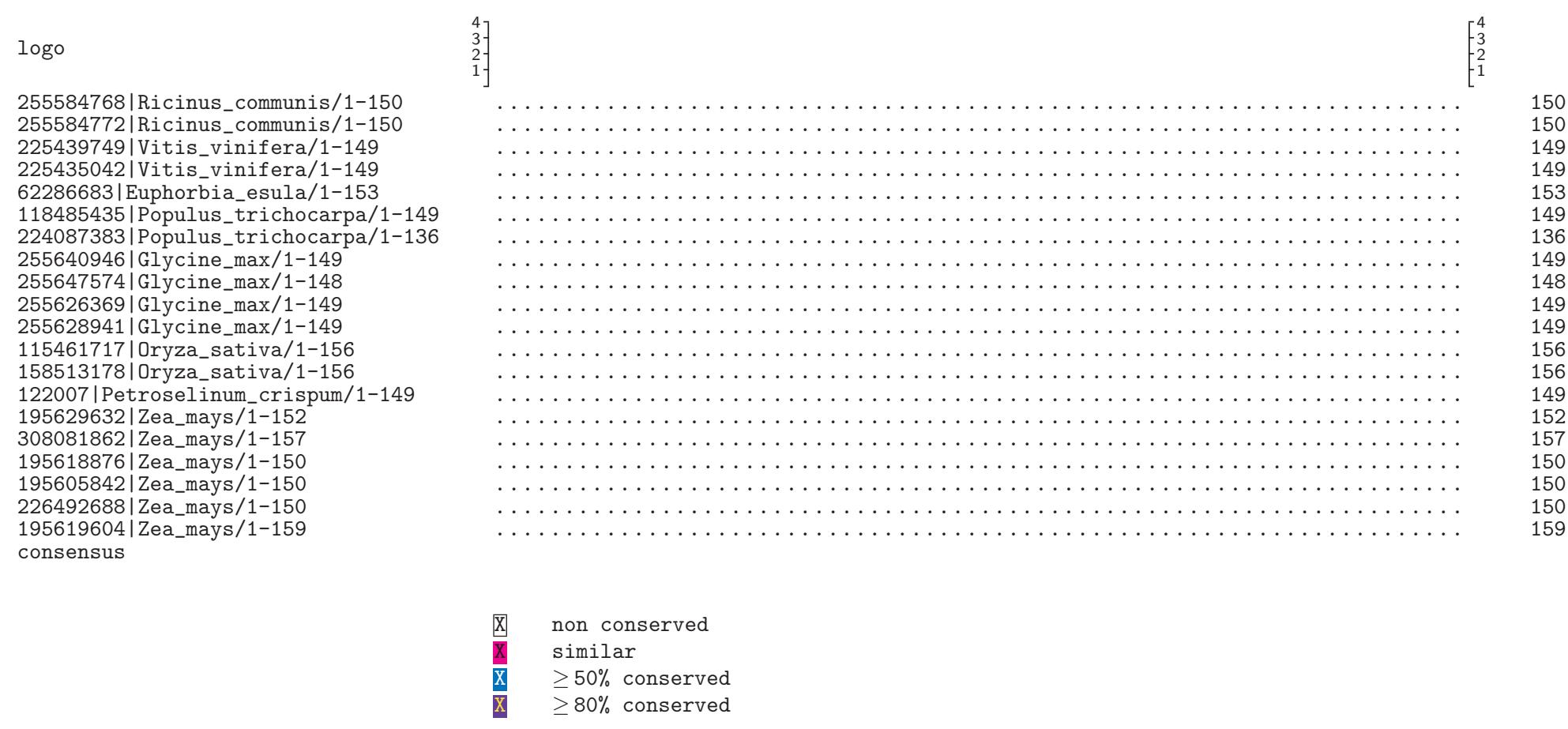


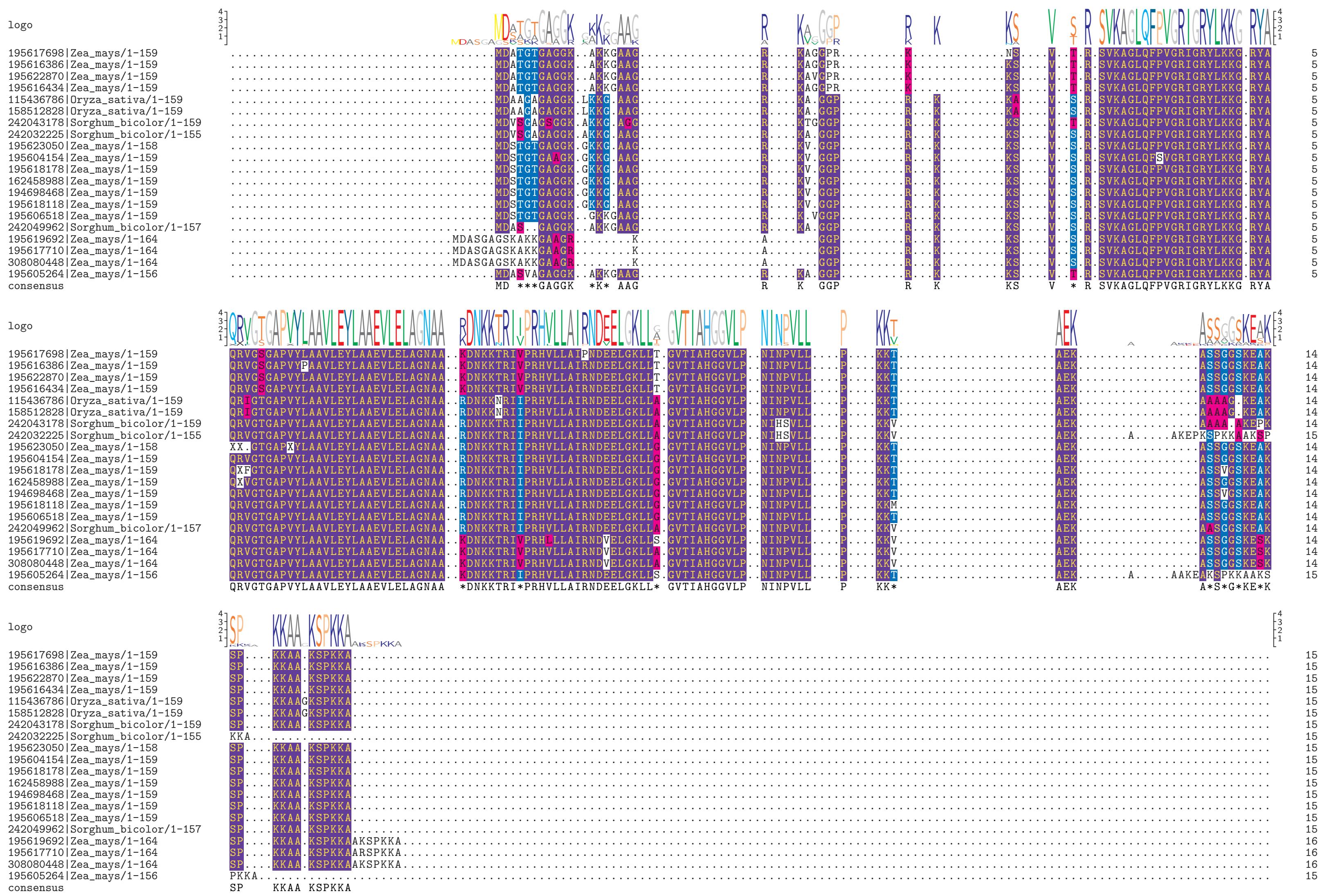


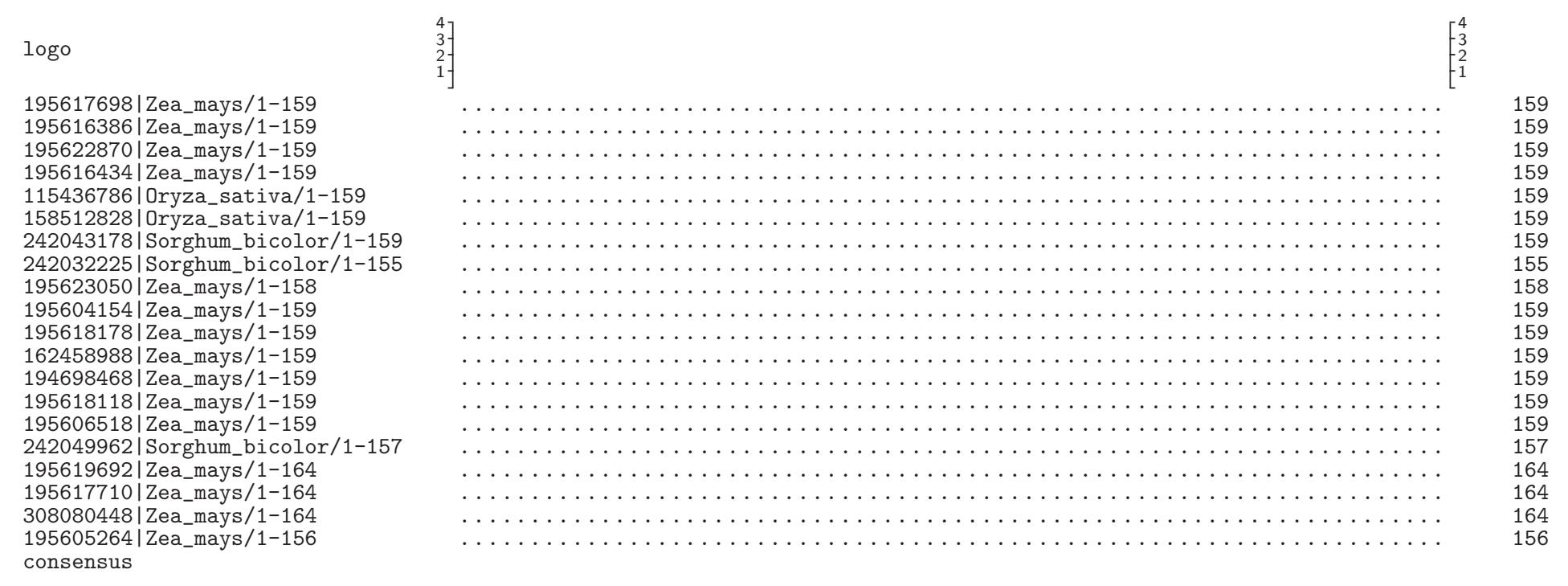


X non conserved  
X similar  
X ≥ 50% conserved  
X ≥ 80% conserved

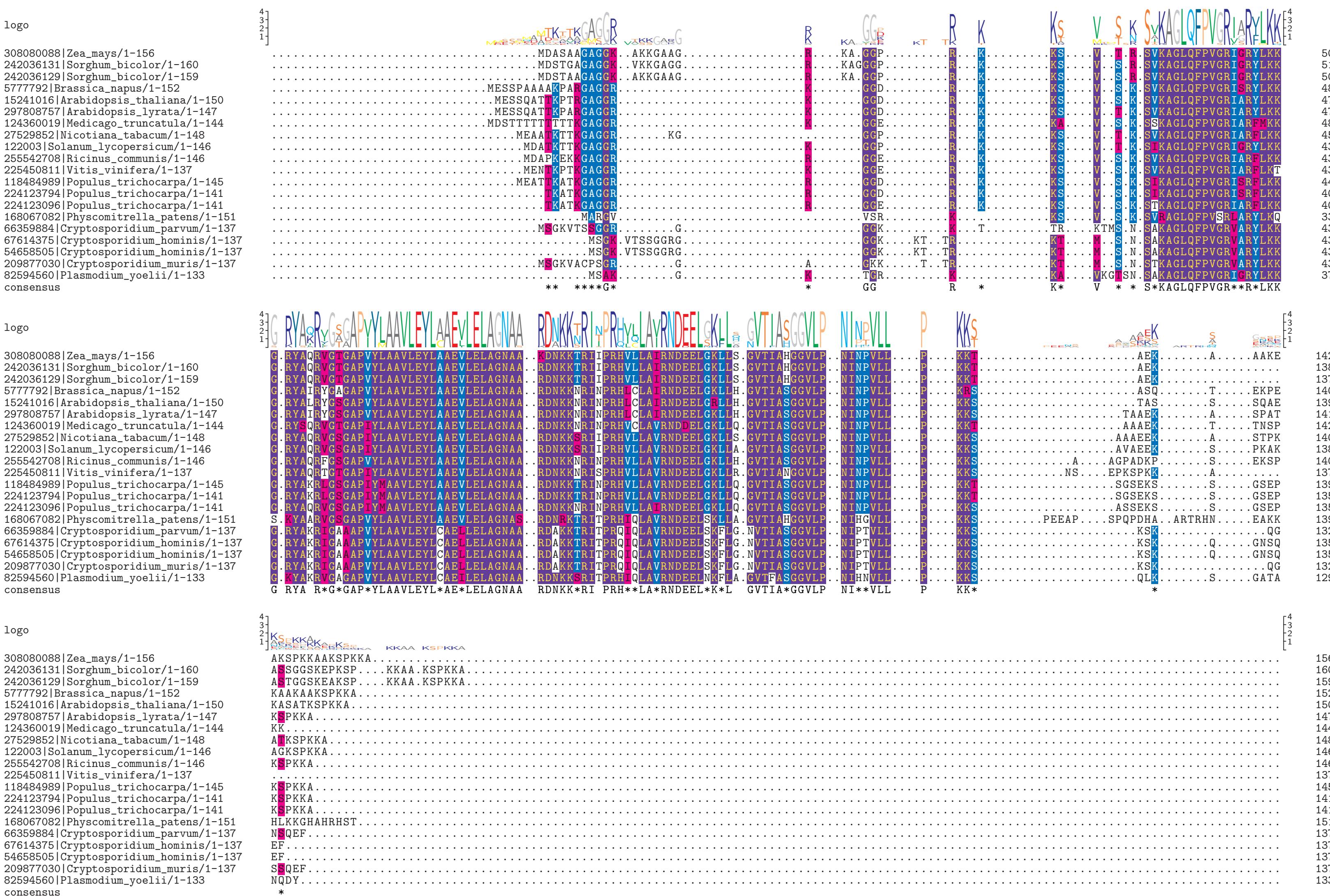


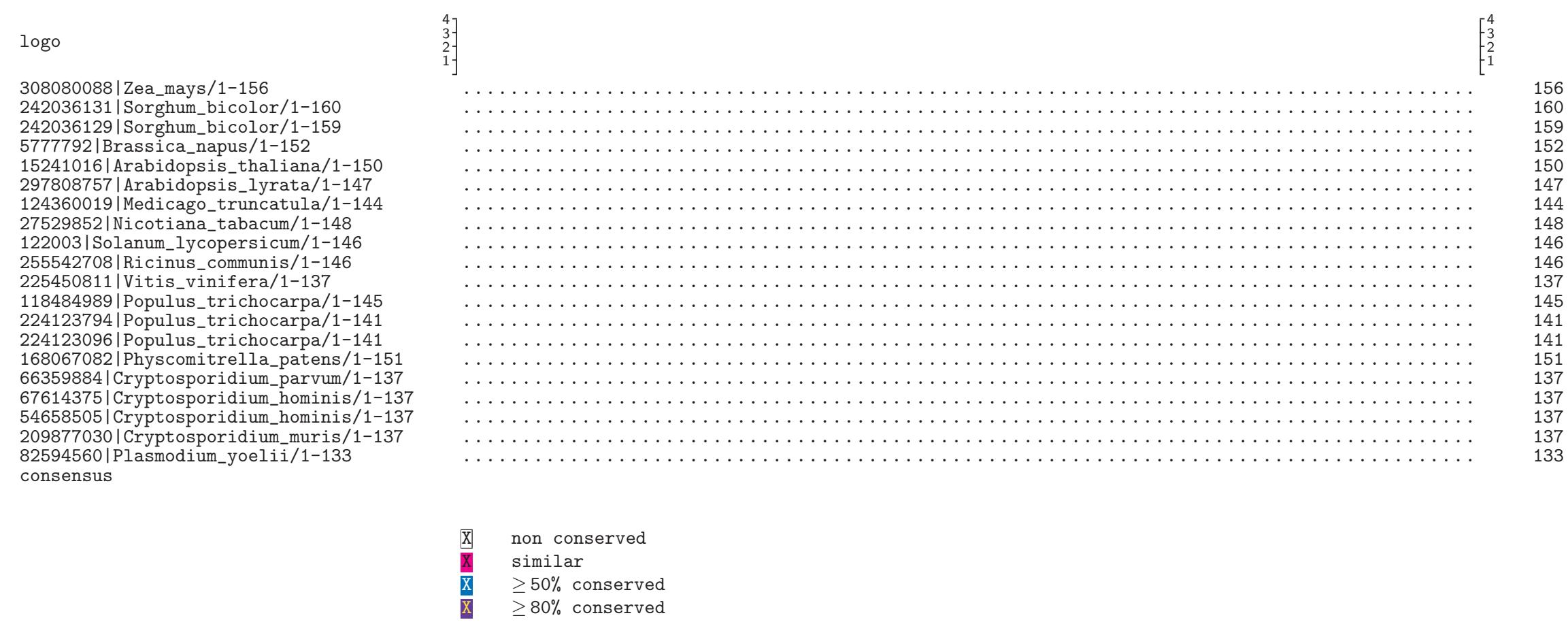


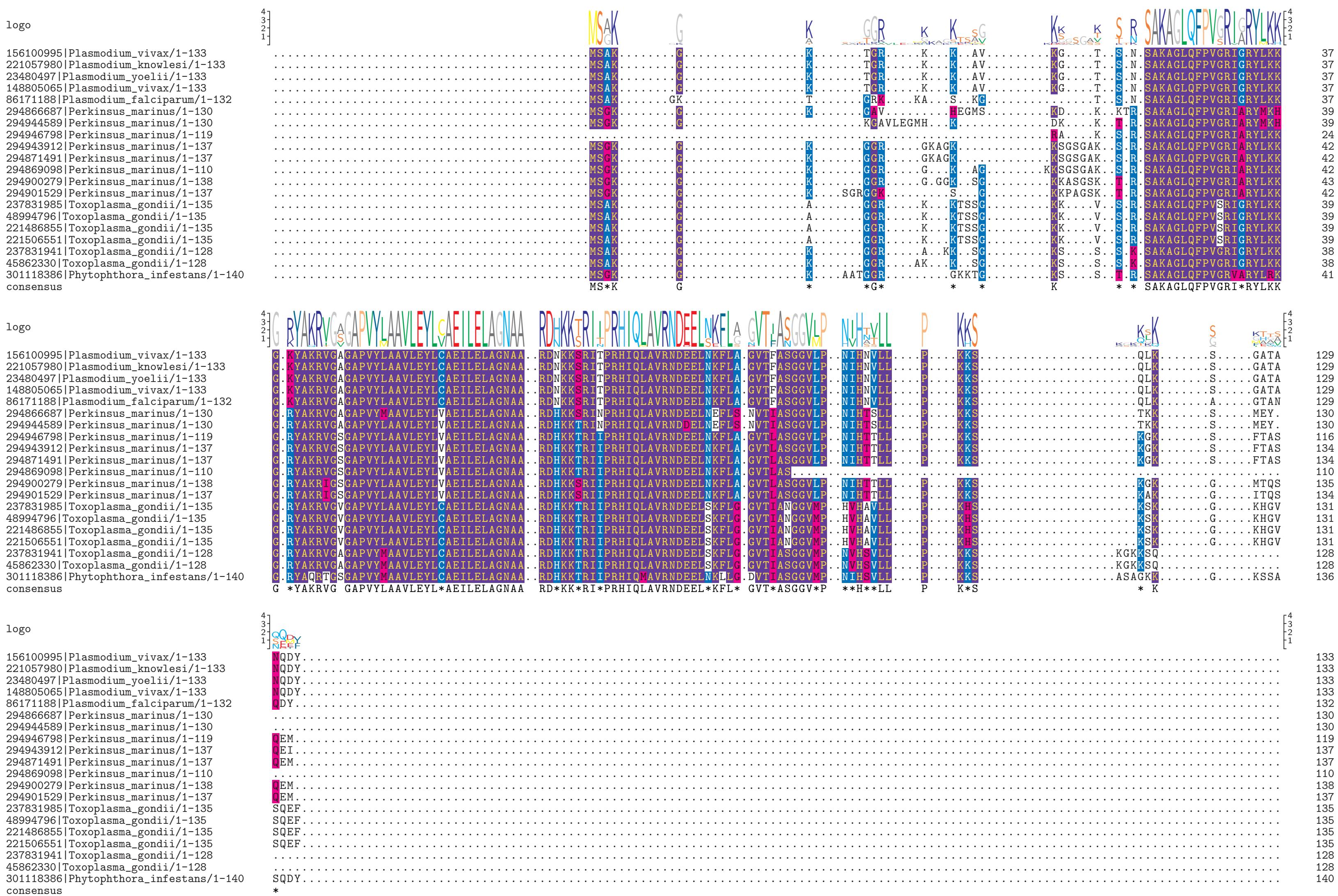


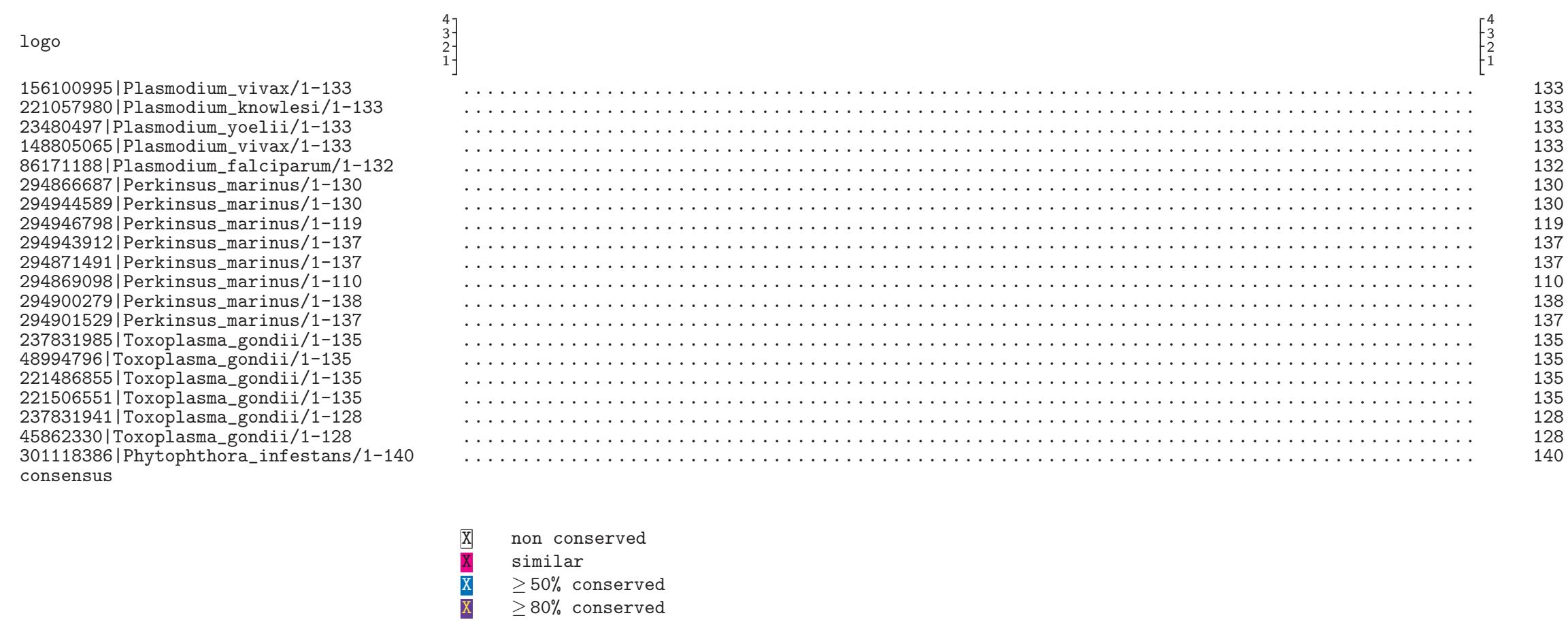


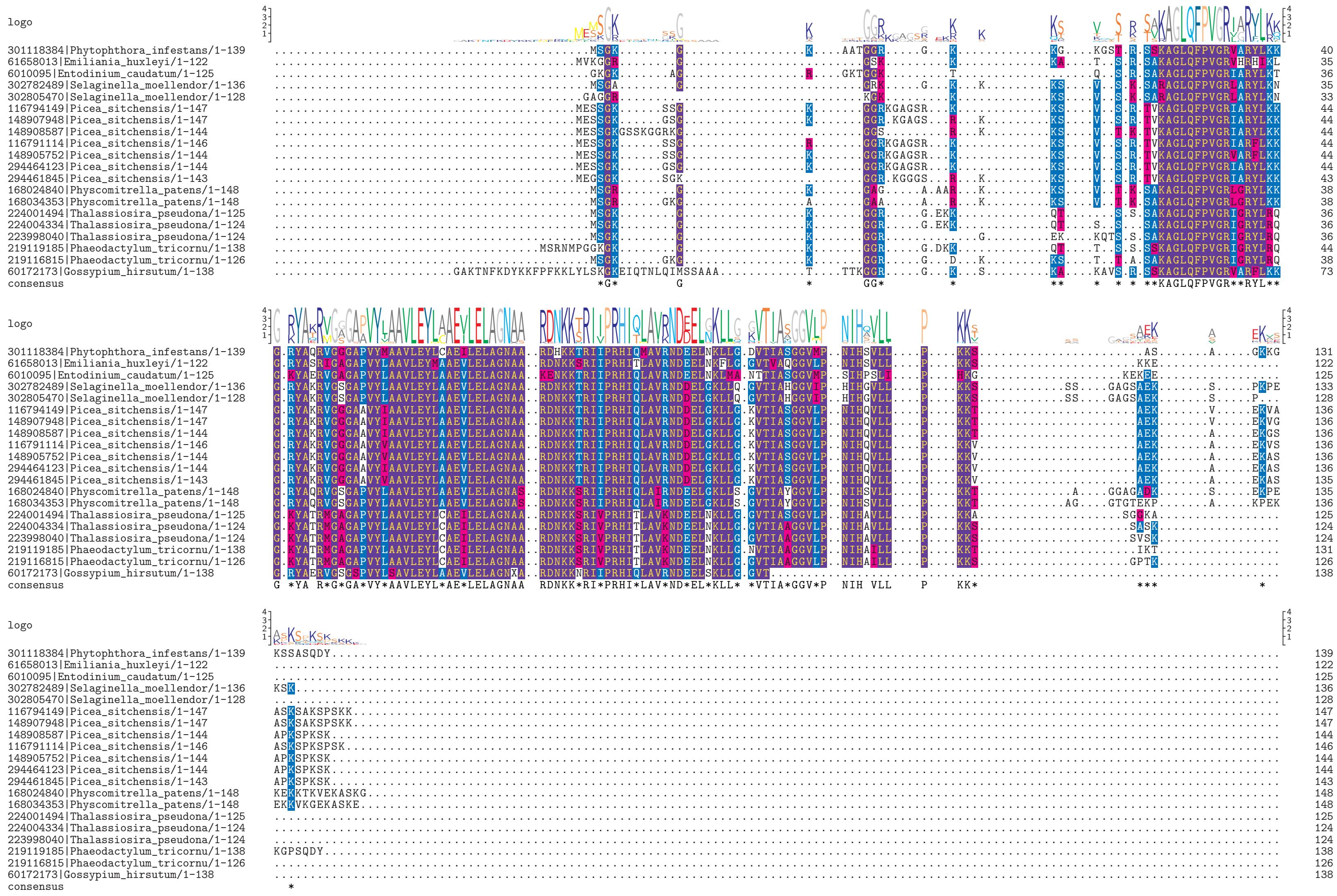
non conserved  
 similar  
 $\geq 50\%$  conserved  
 $\geq 80\%$  conserved

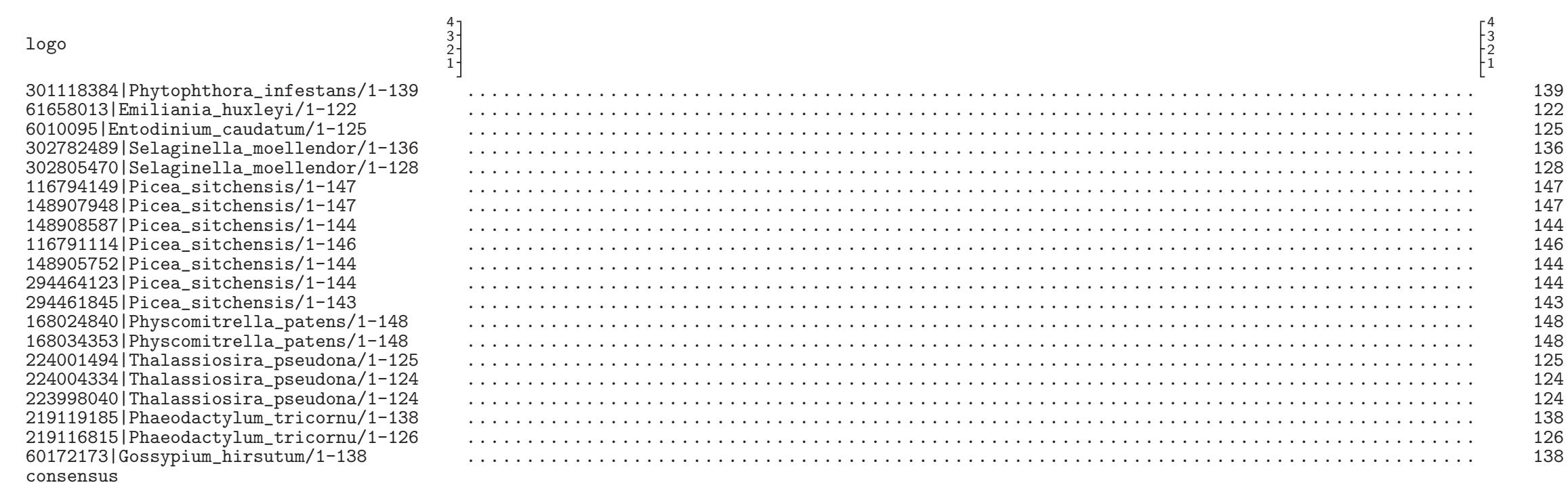




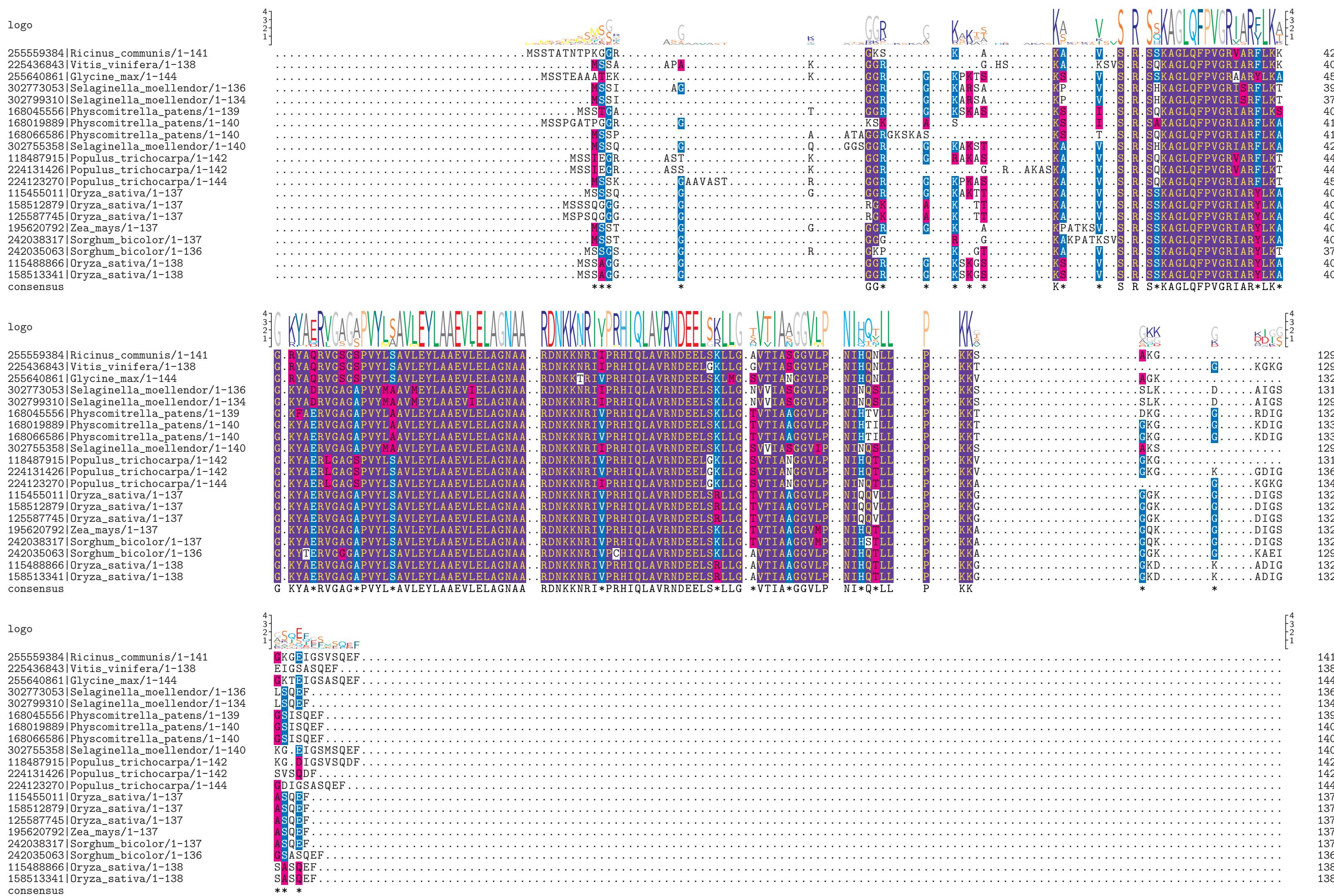


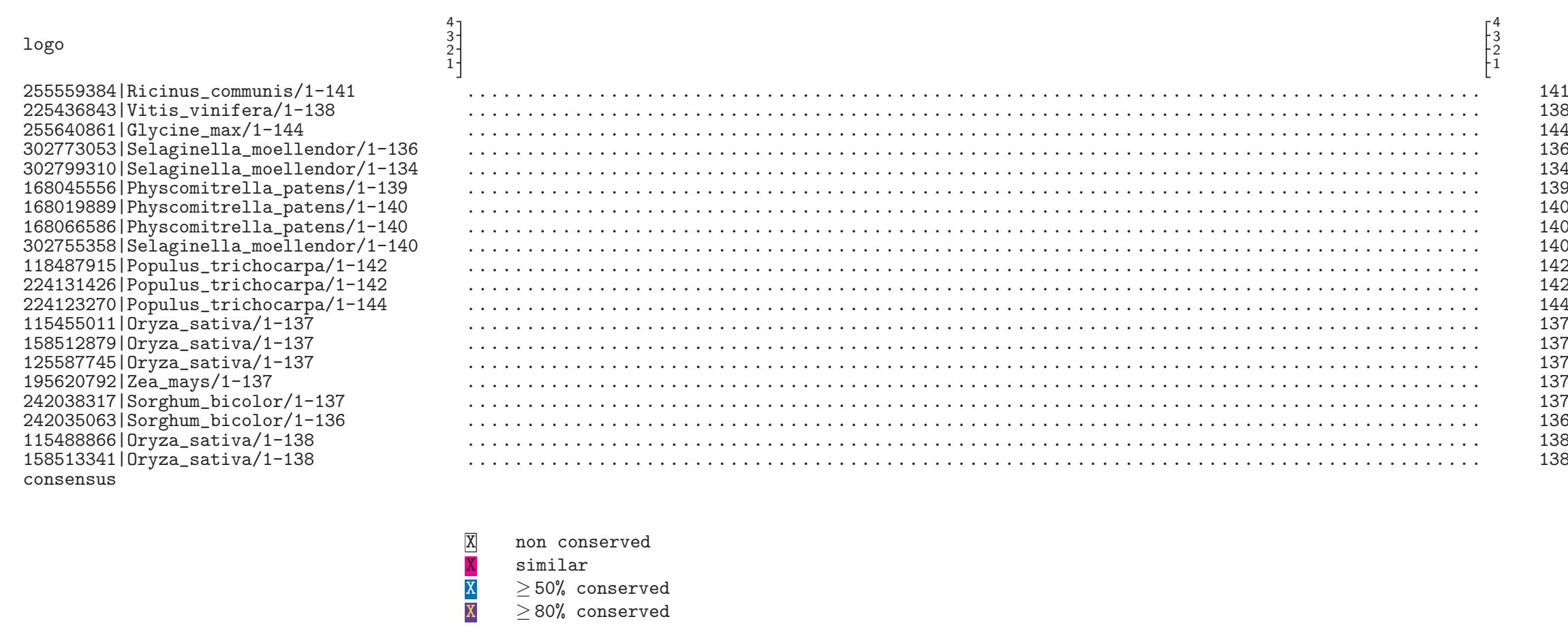


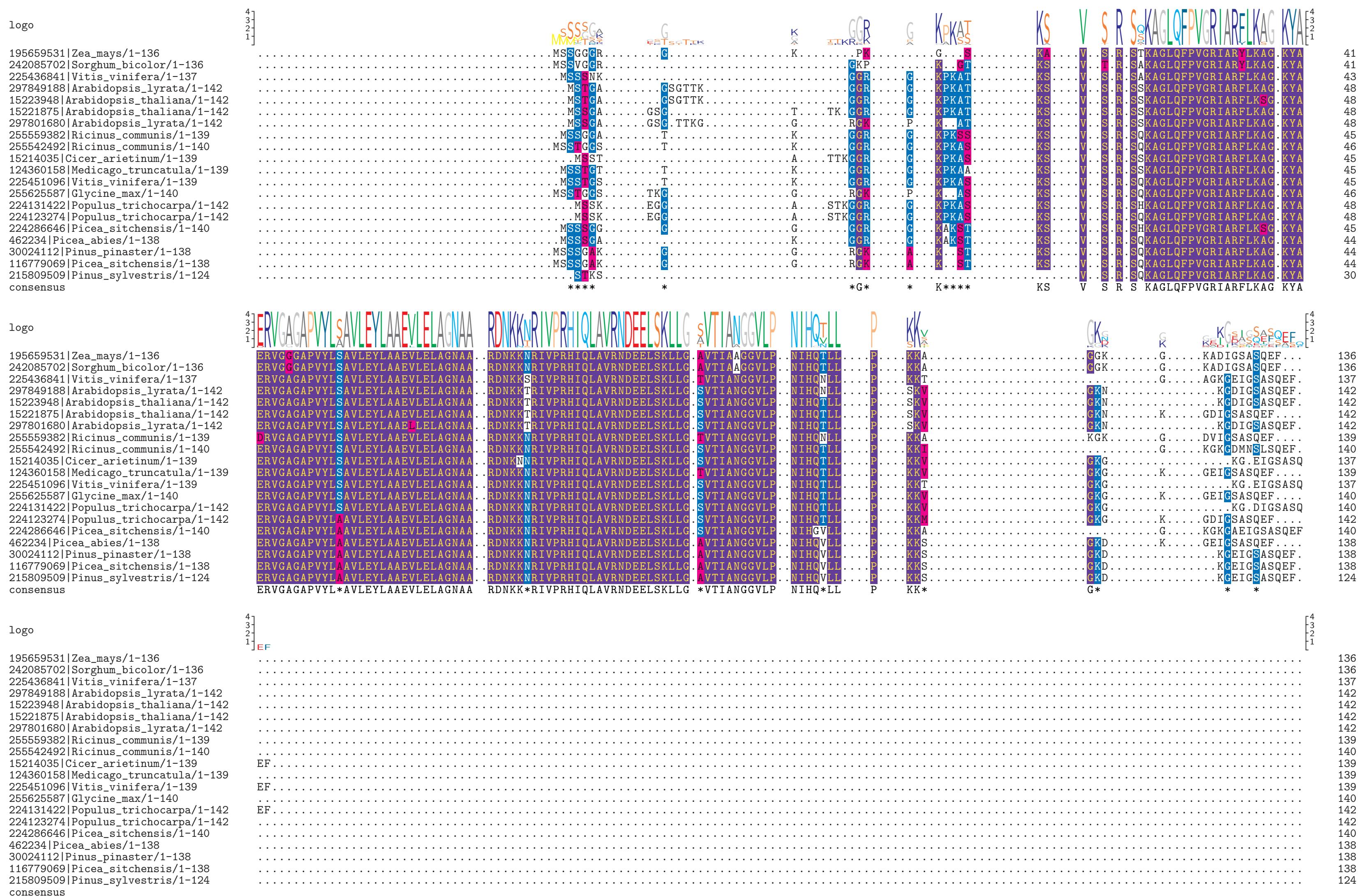


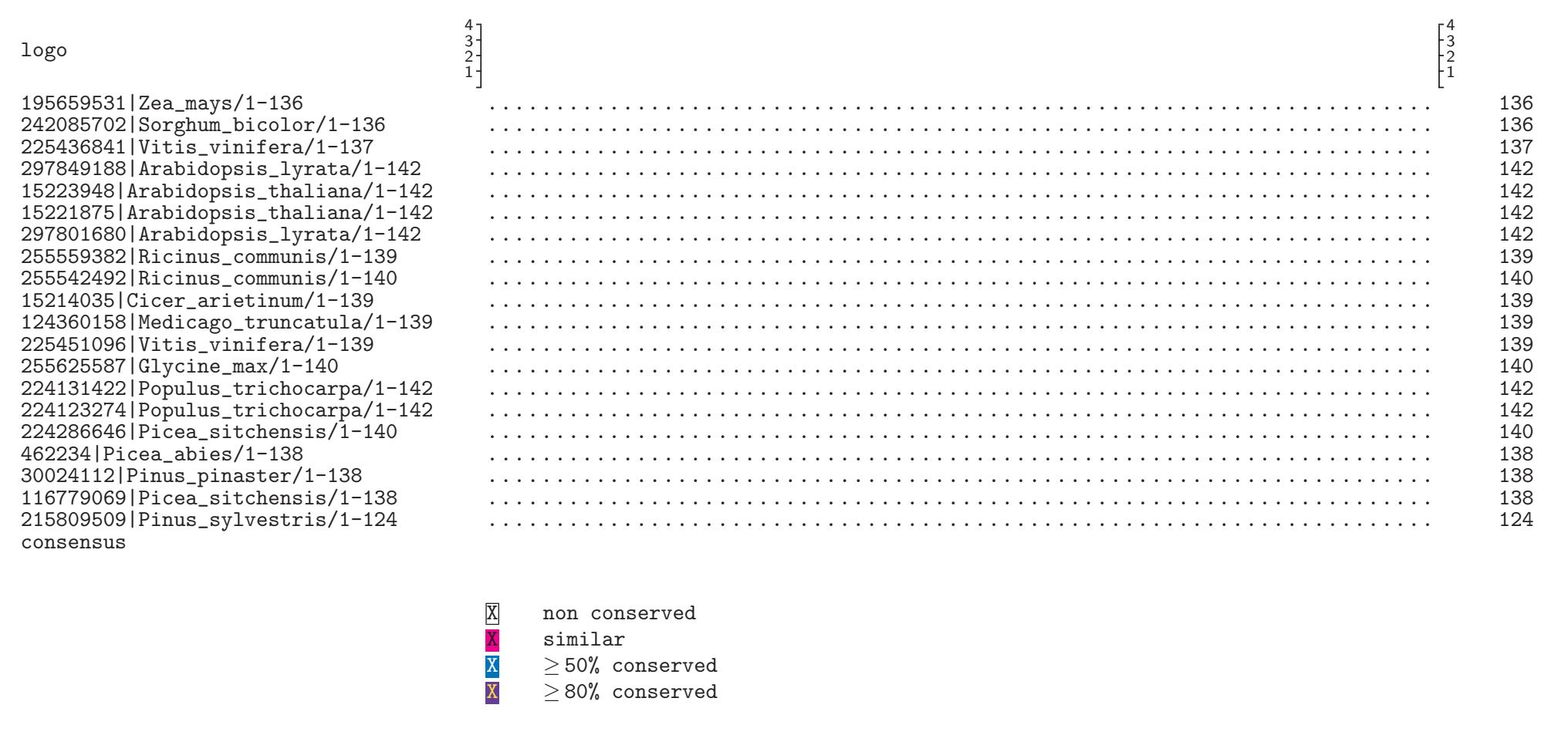


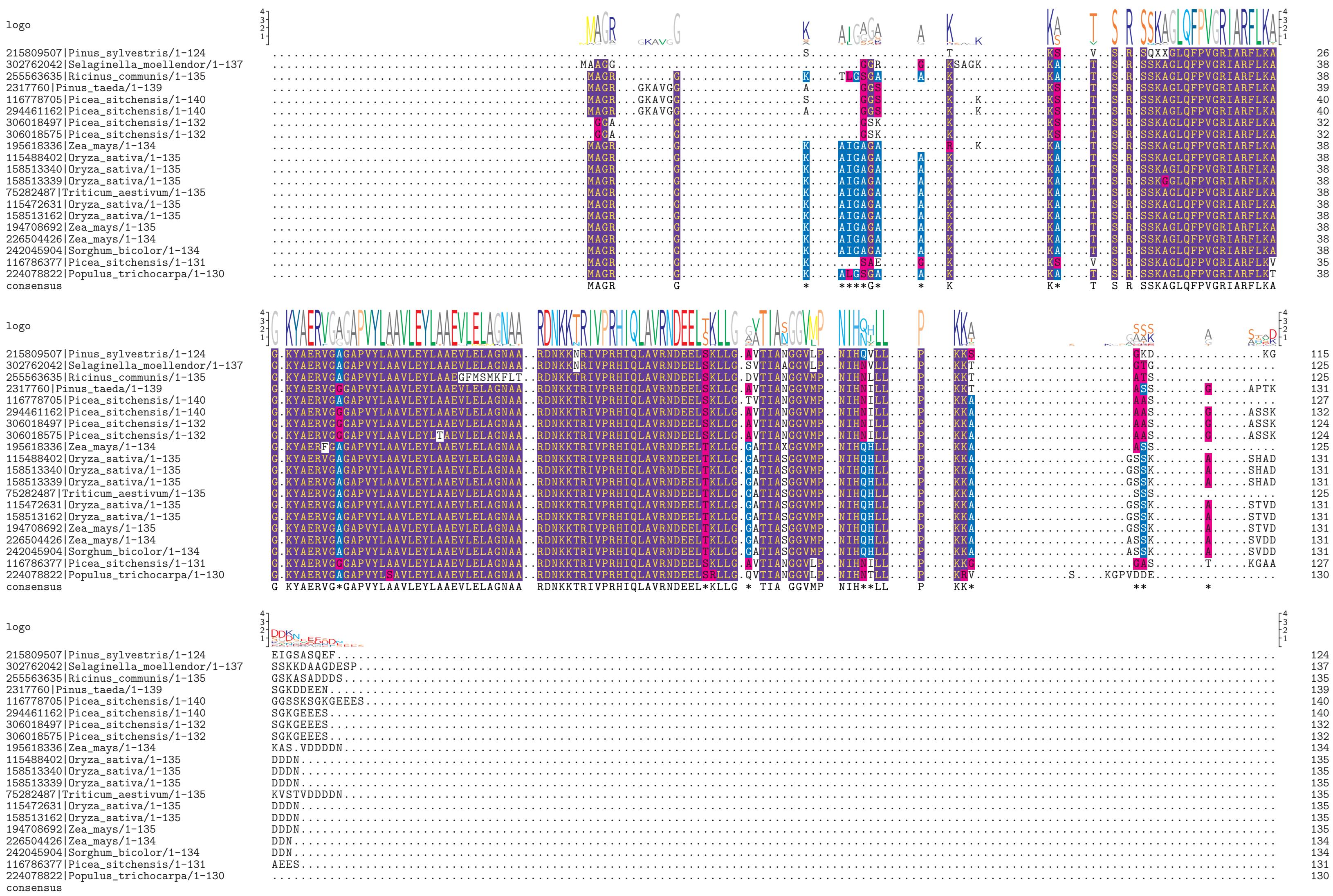
non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved

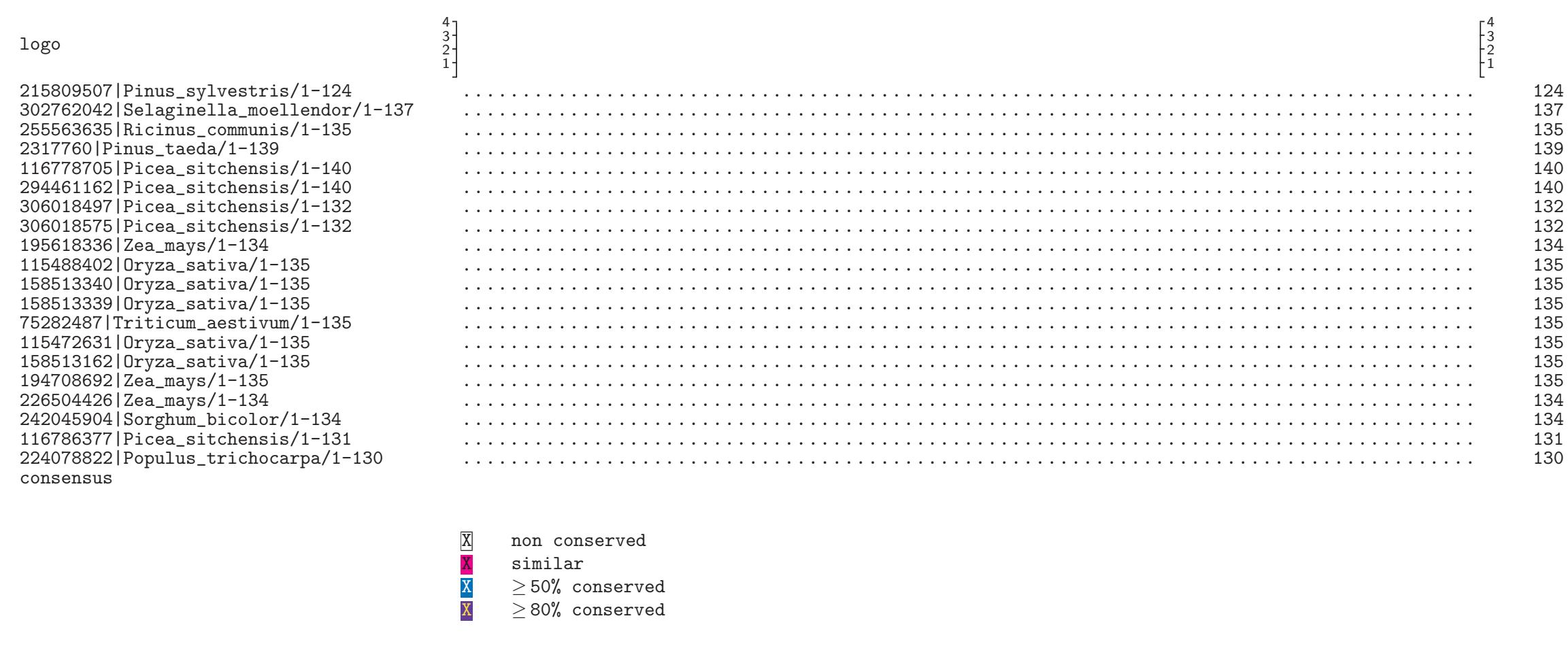


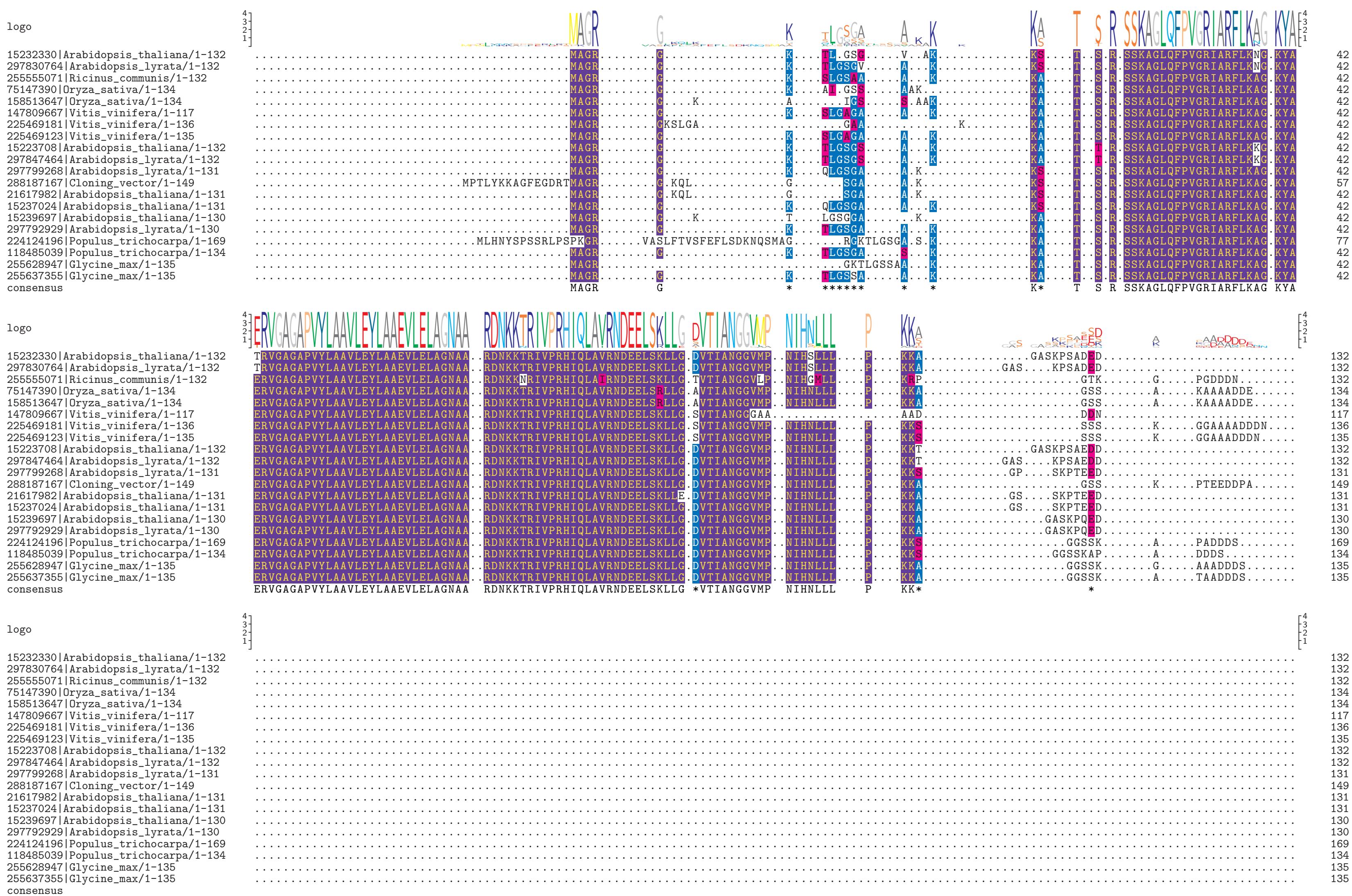


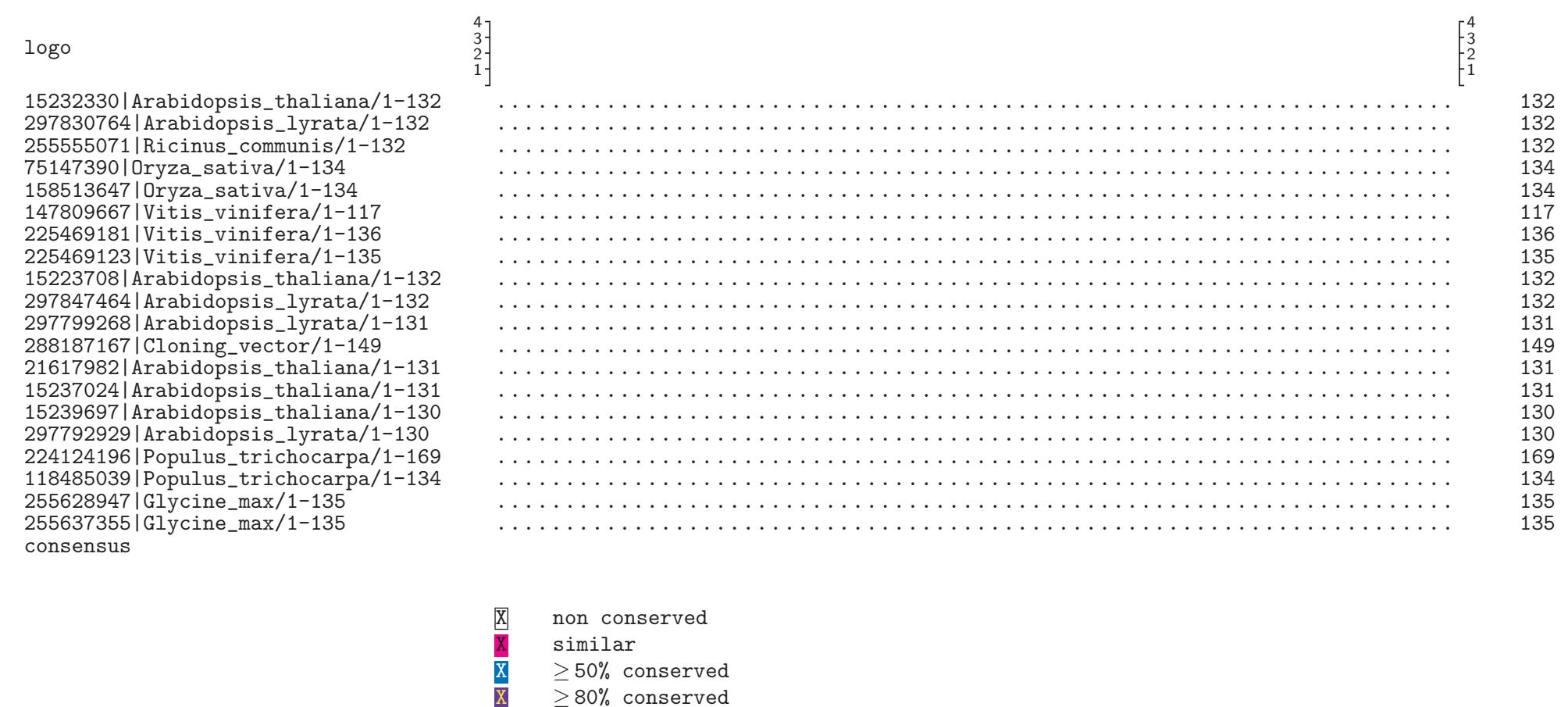


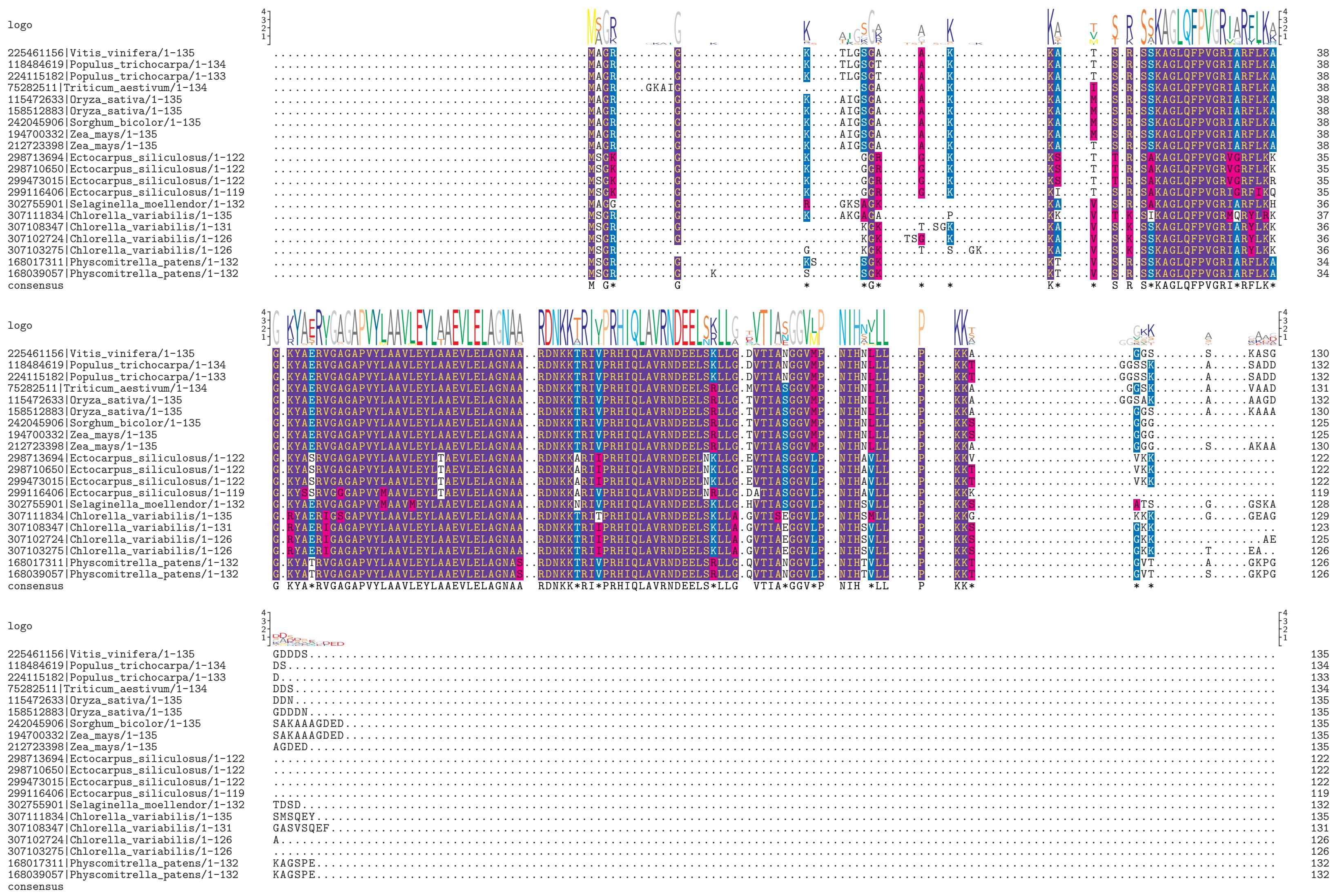


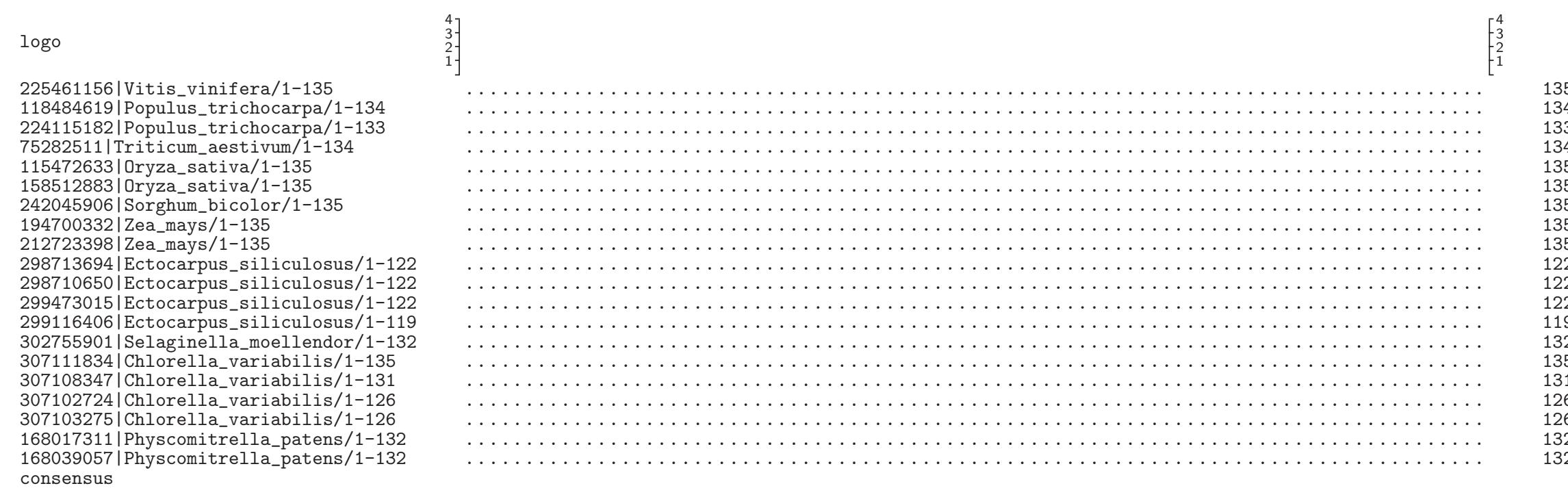




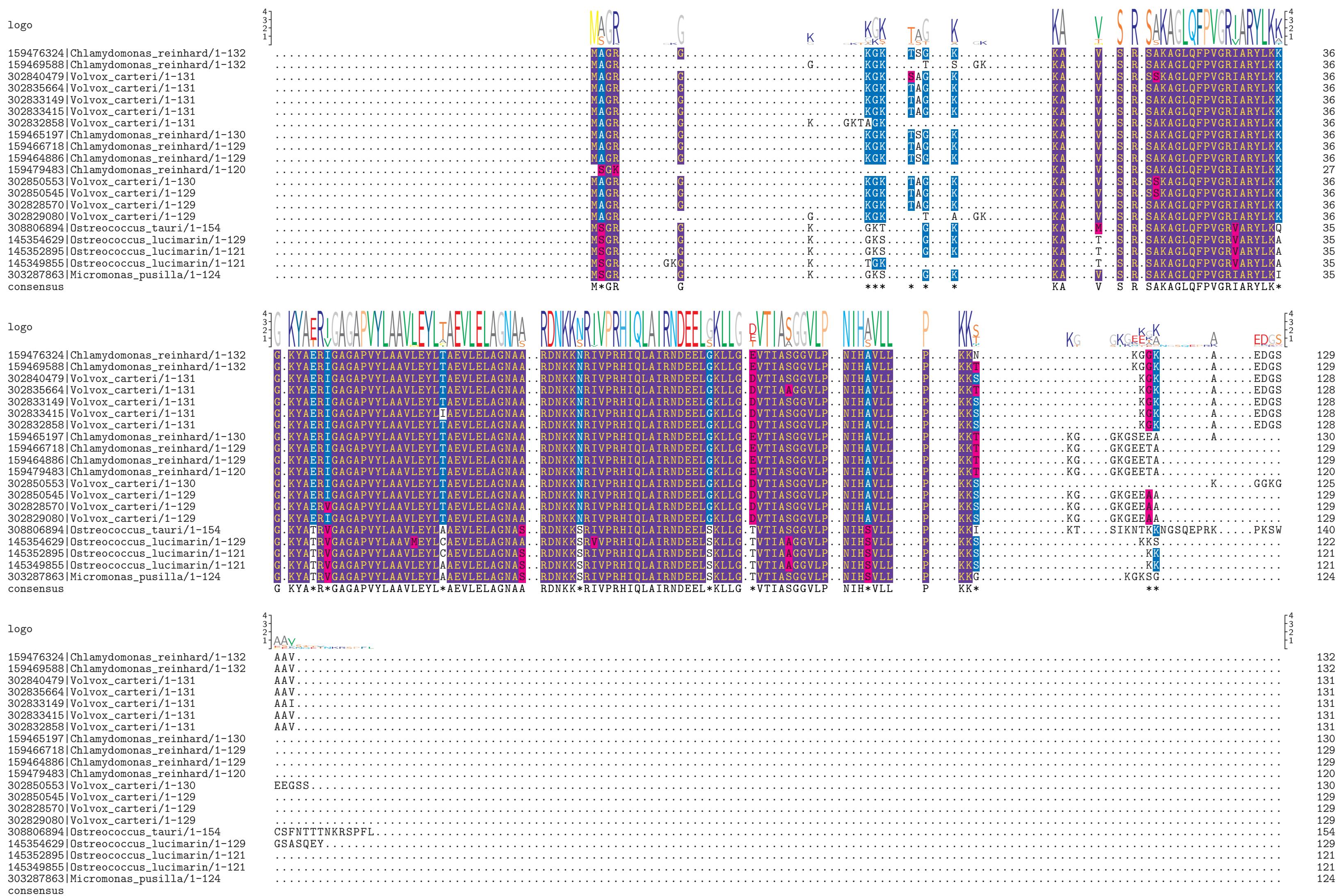


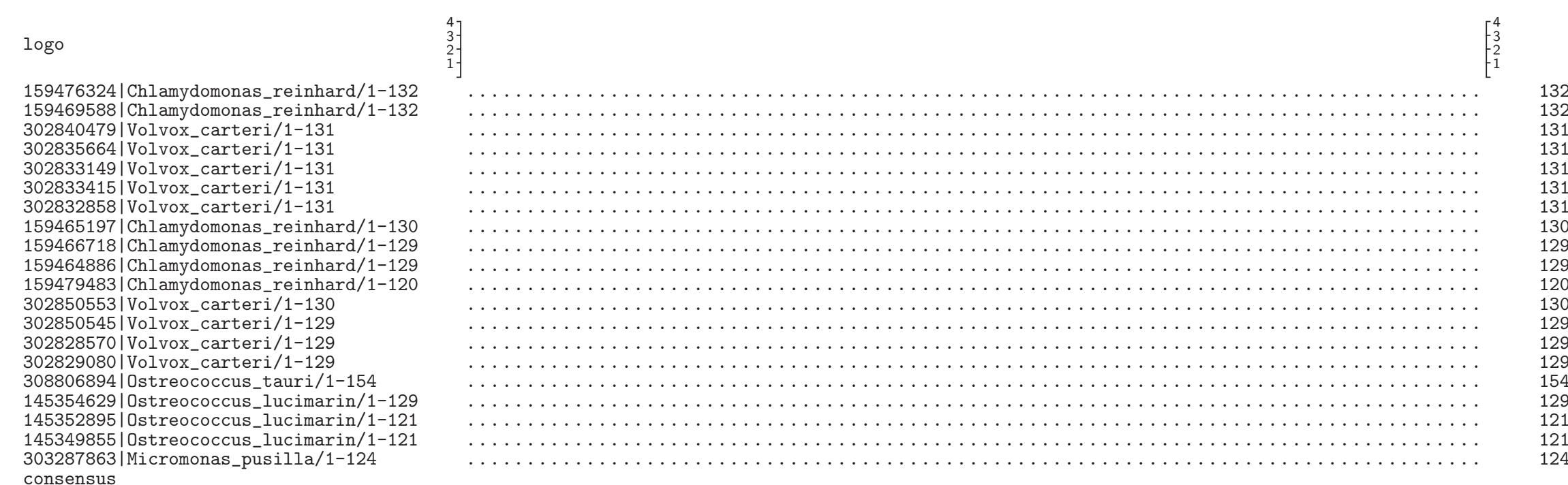




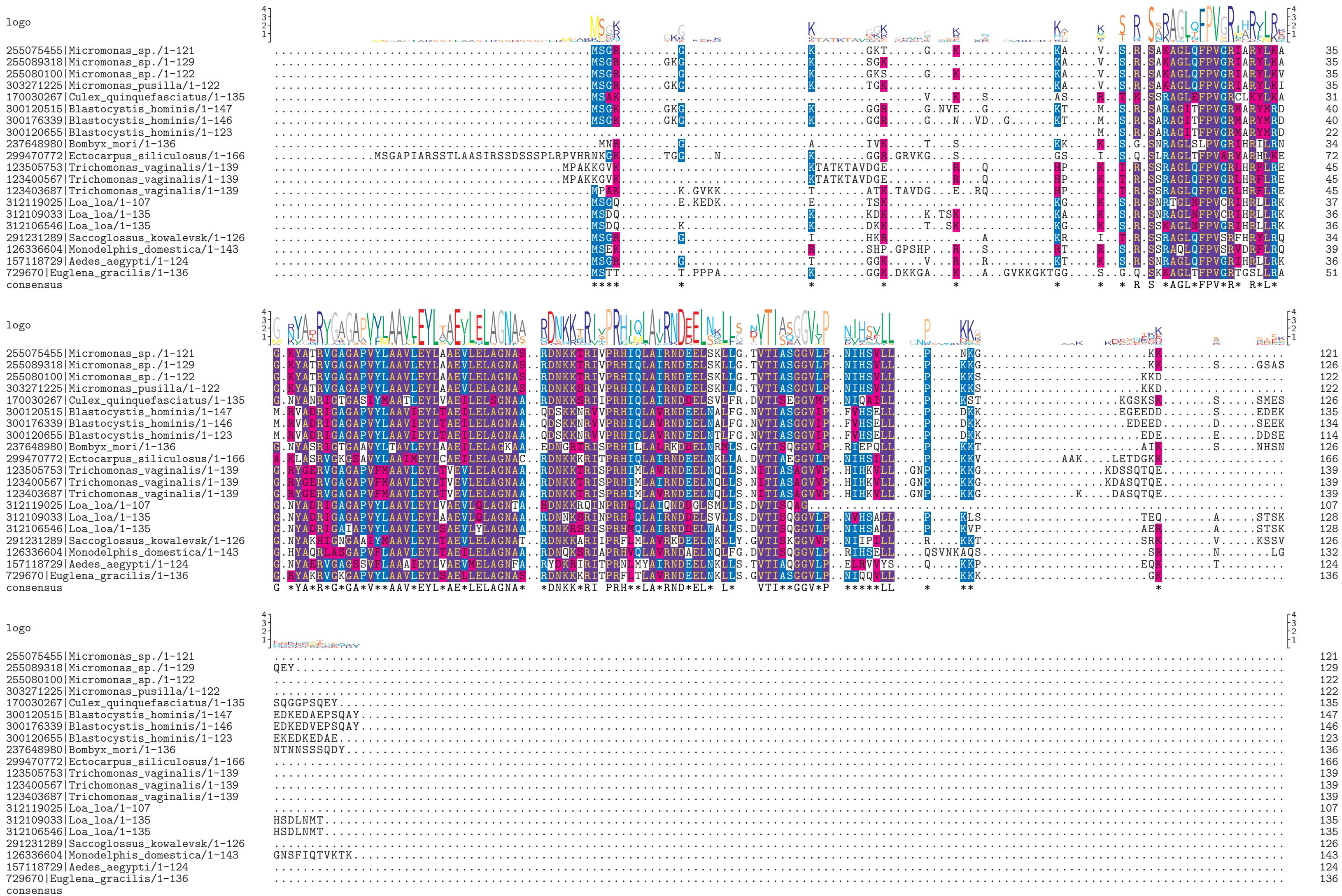


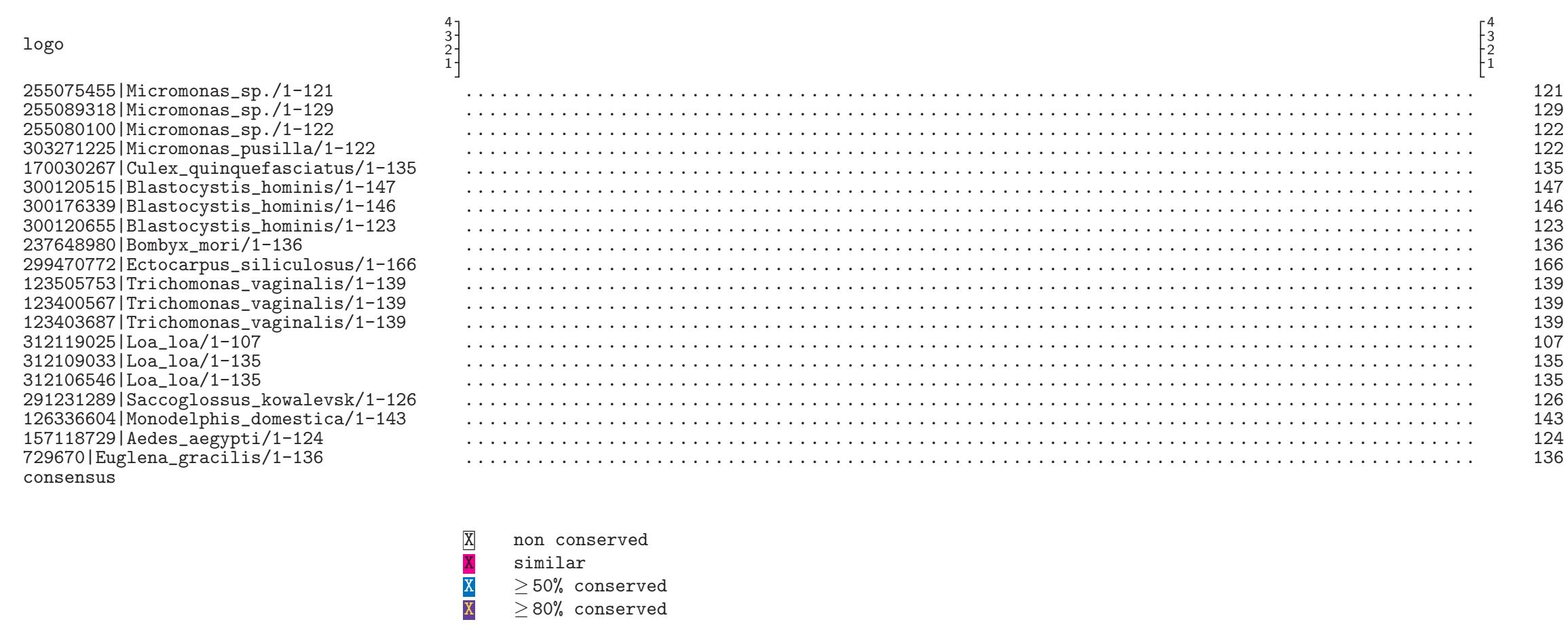
non conserved  
 similar  
 $\geq 50\%$  conserved  
 $\geq 80\%$  conserved

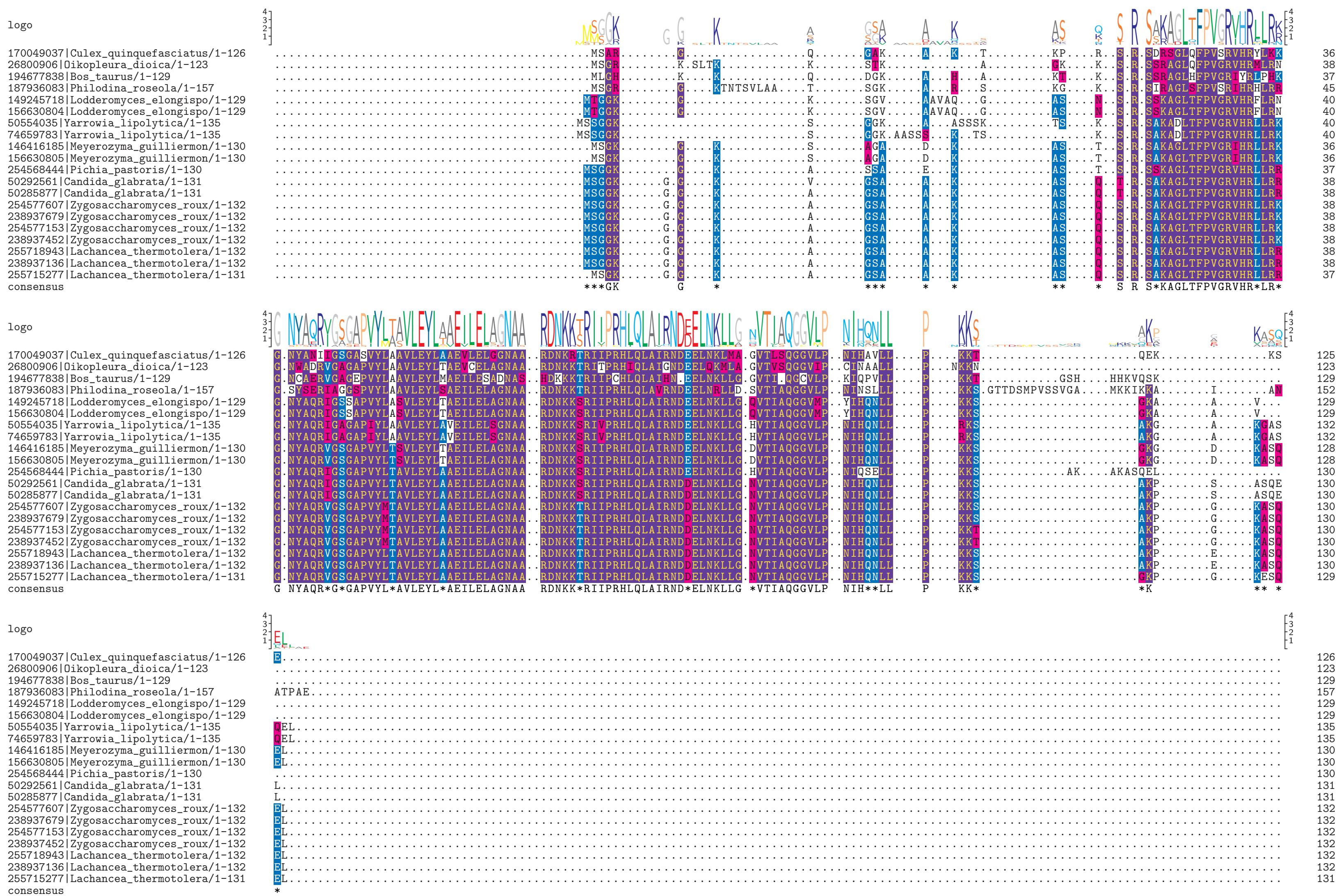


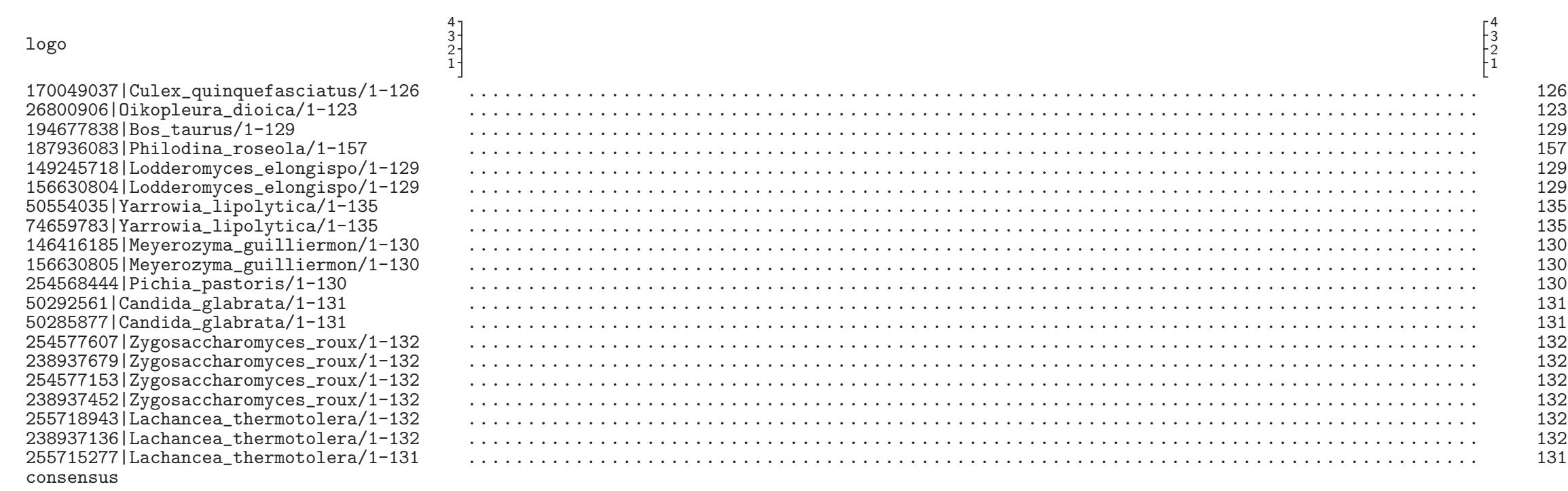


█ non conserved  
█ similar  
█ ≥ 50% conserved  
█ ≥ 80% conserved

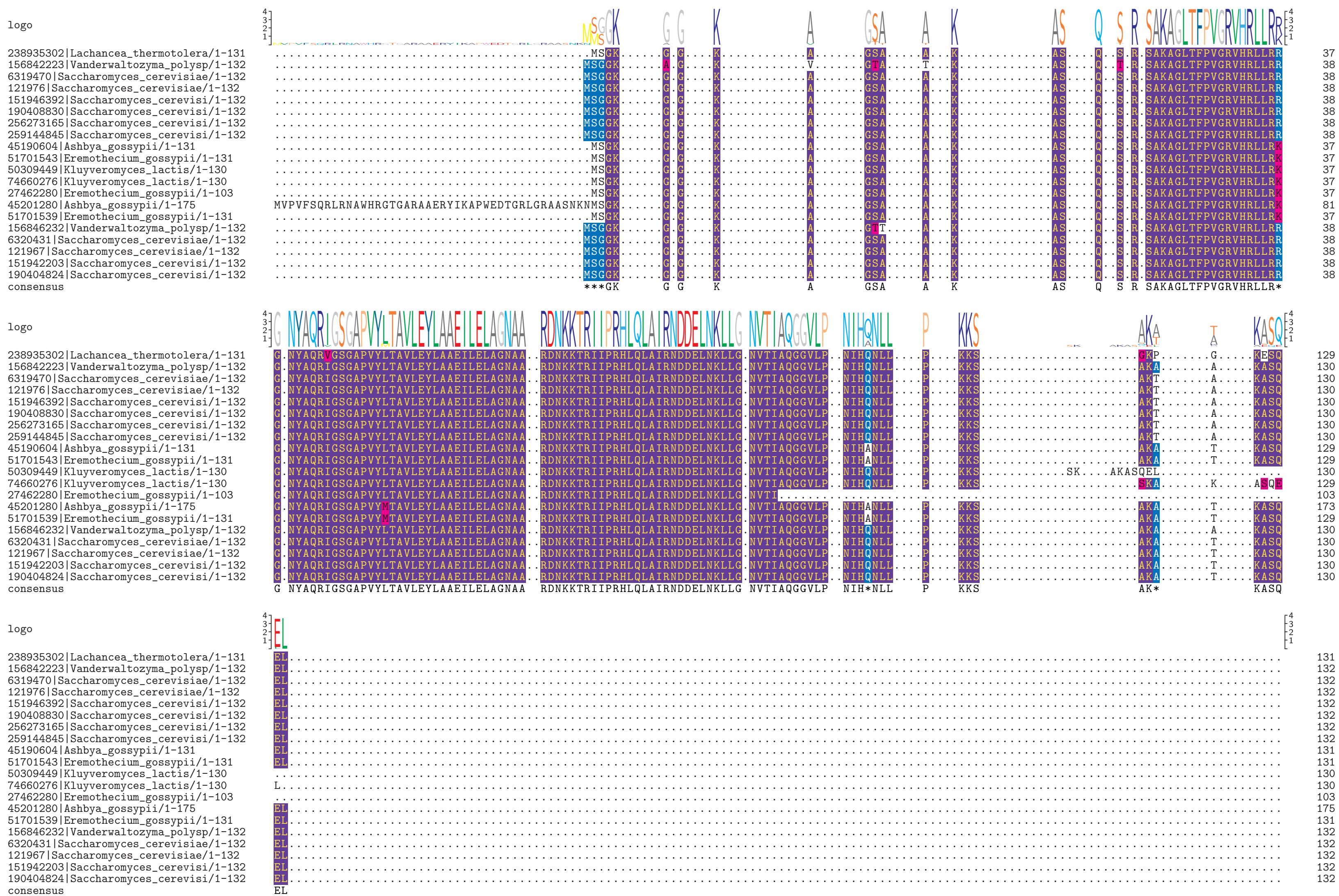


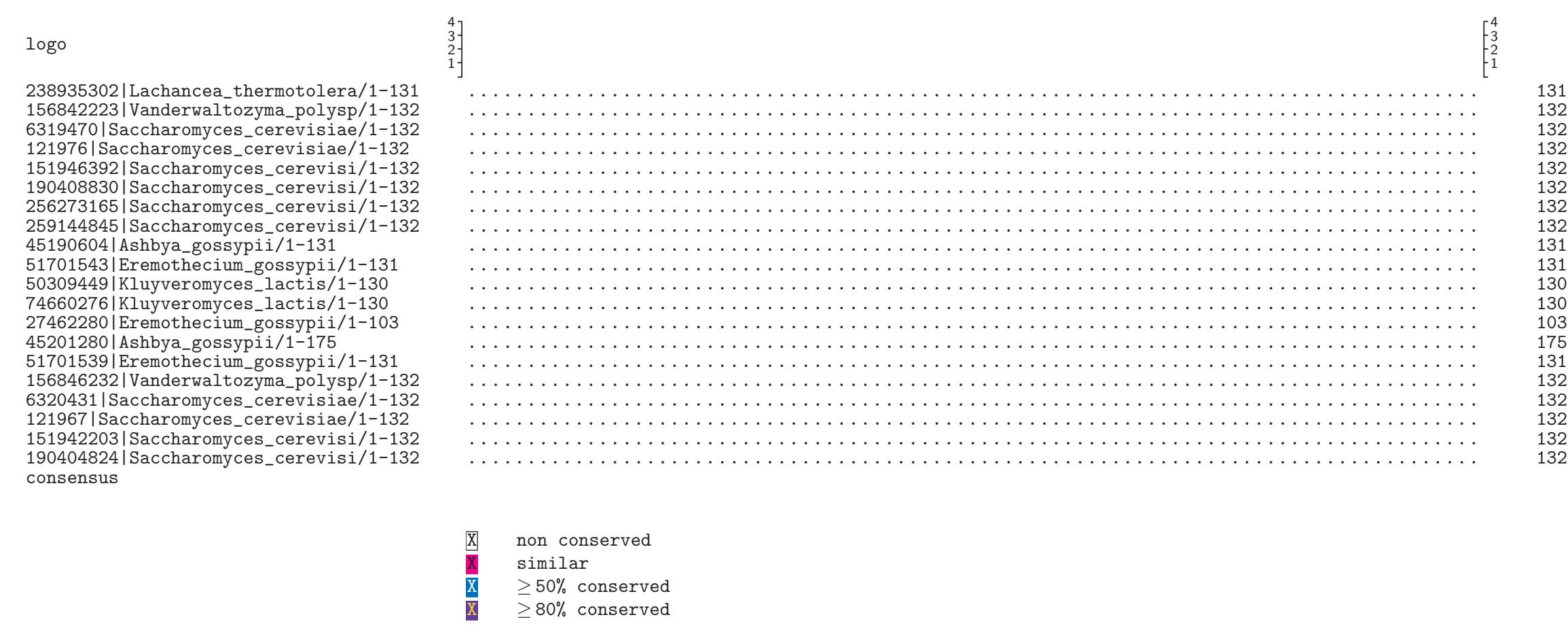


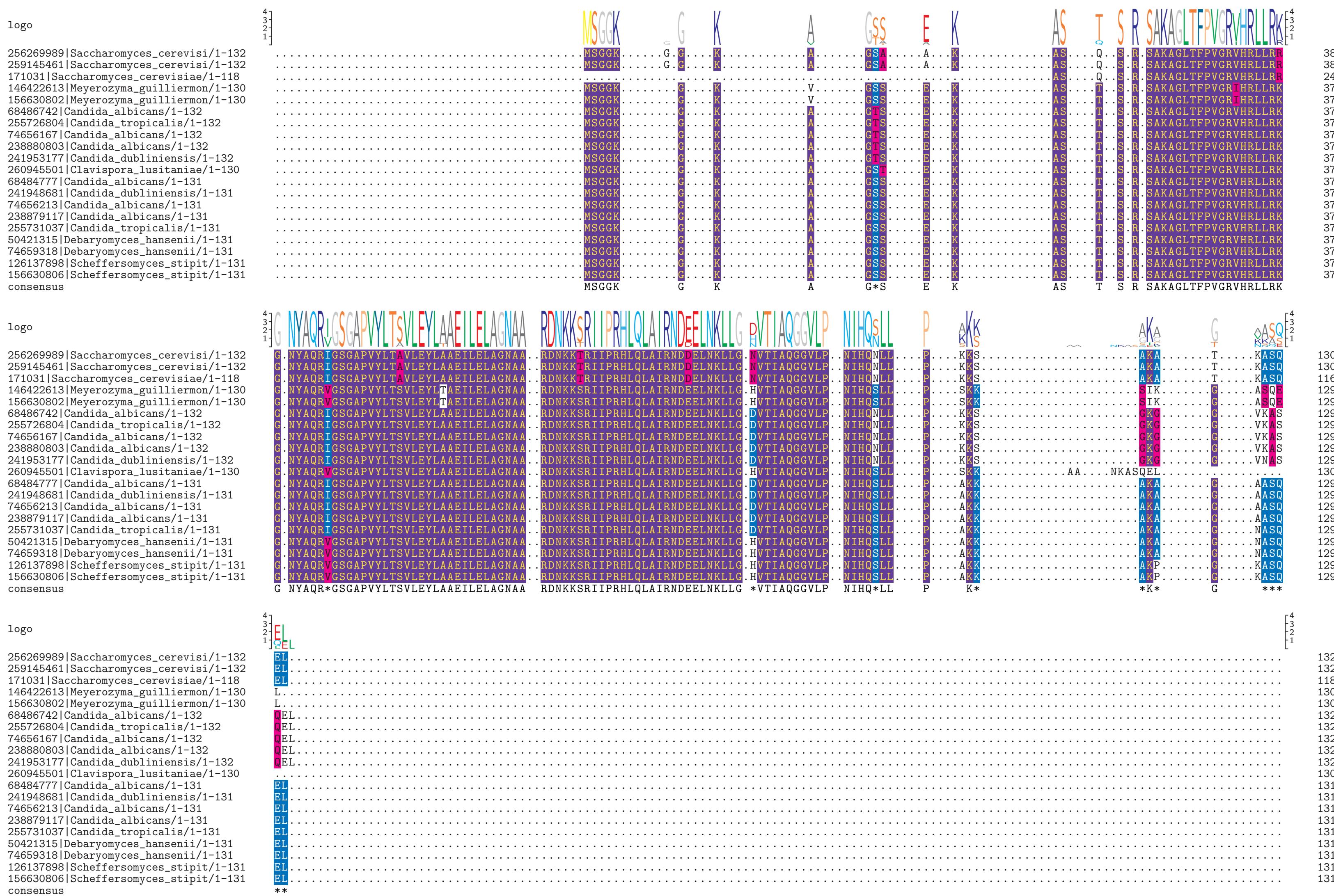


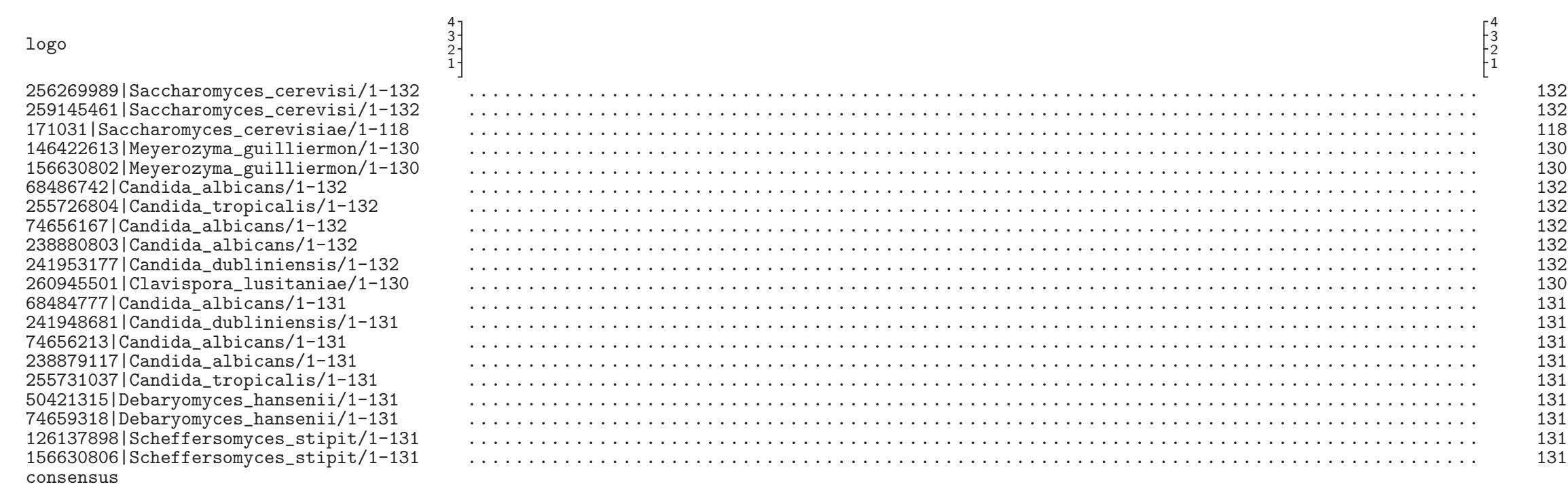


non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved

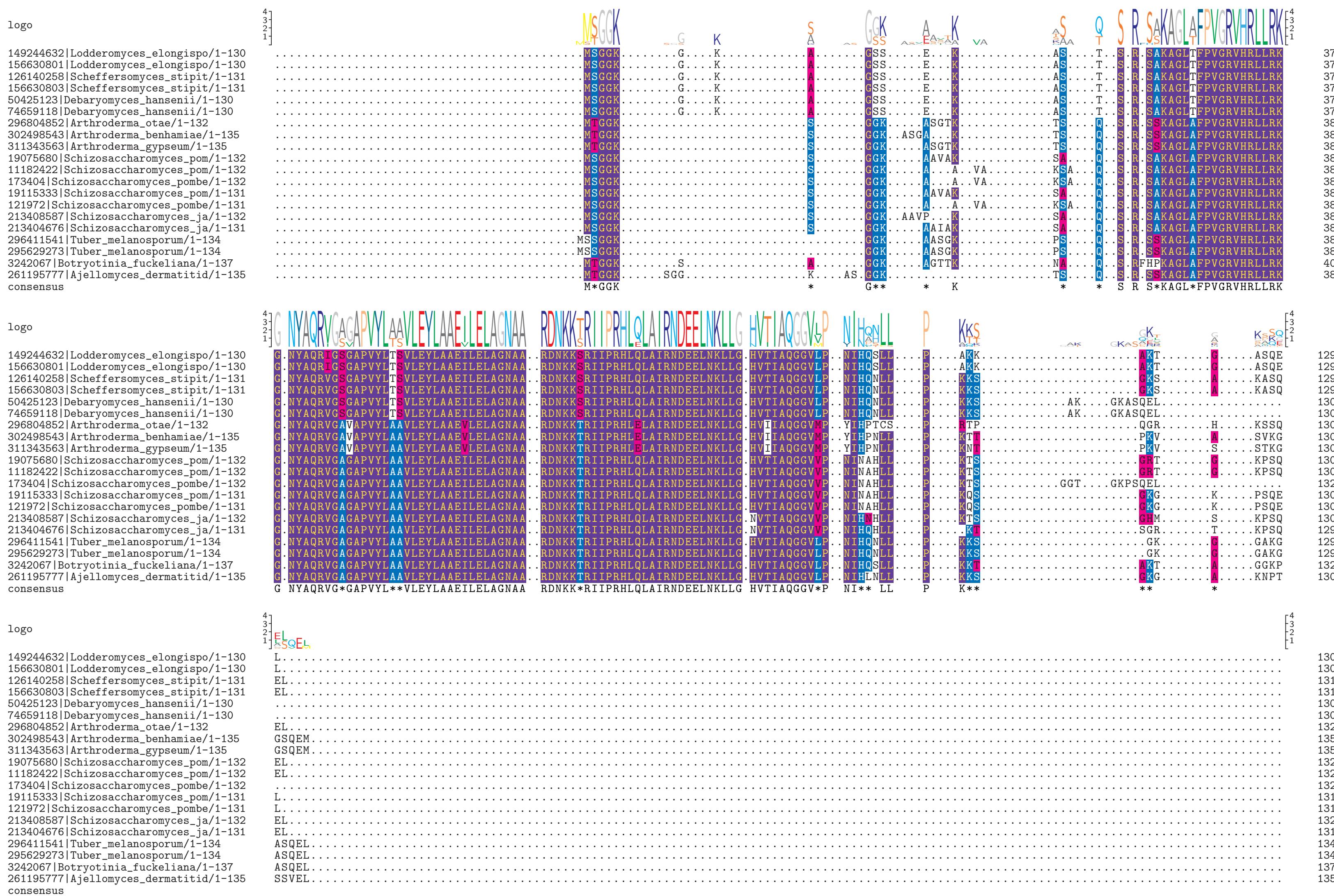


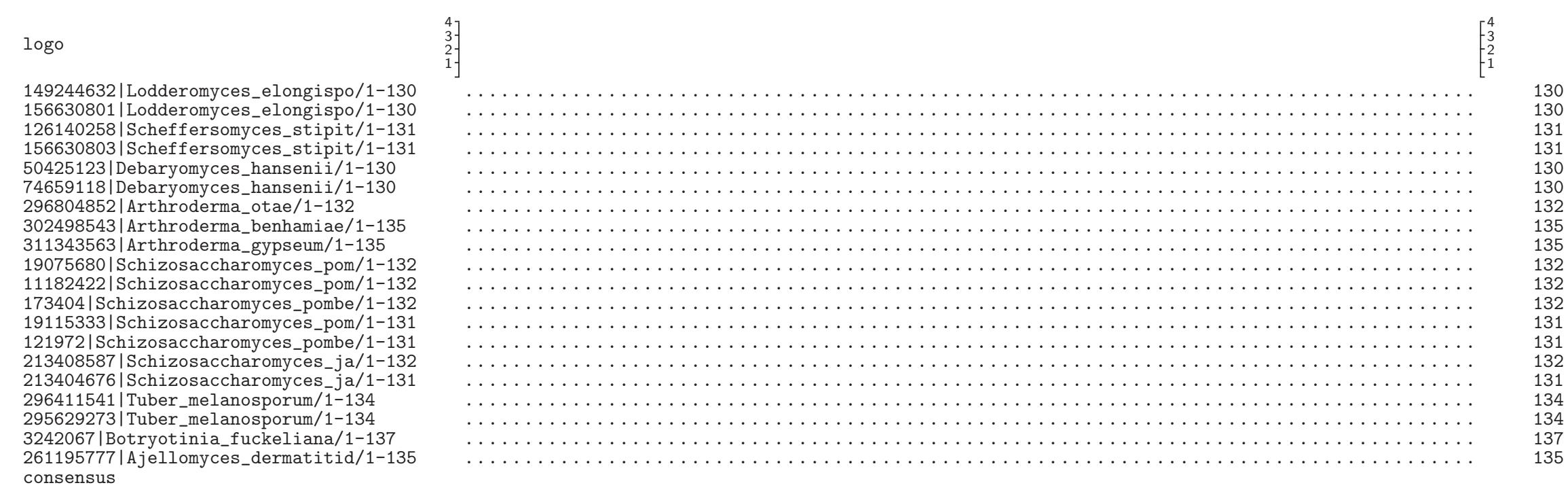




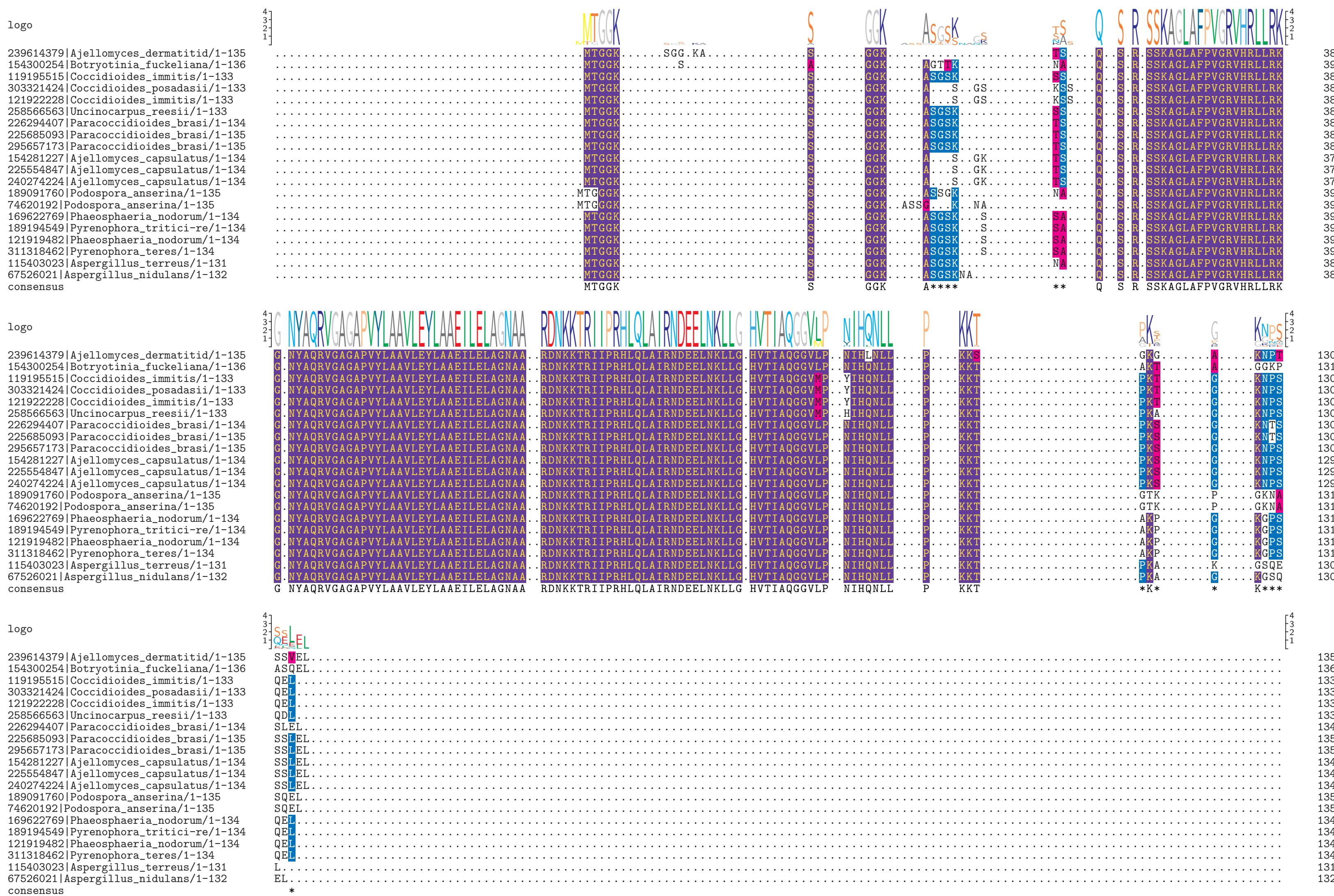


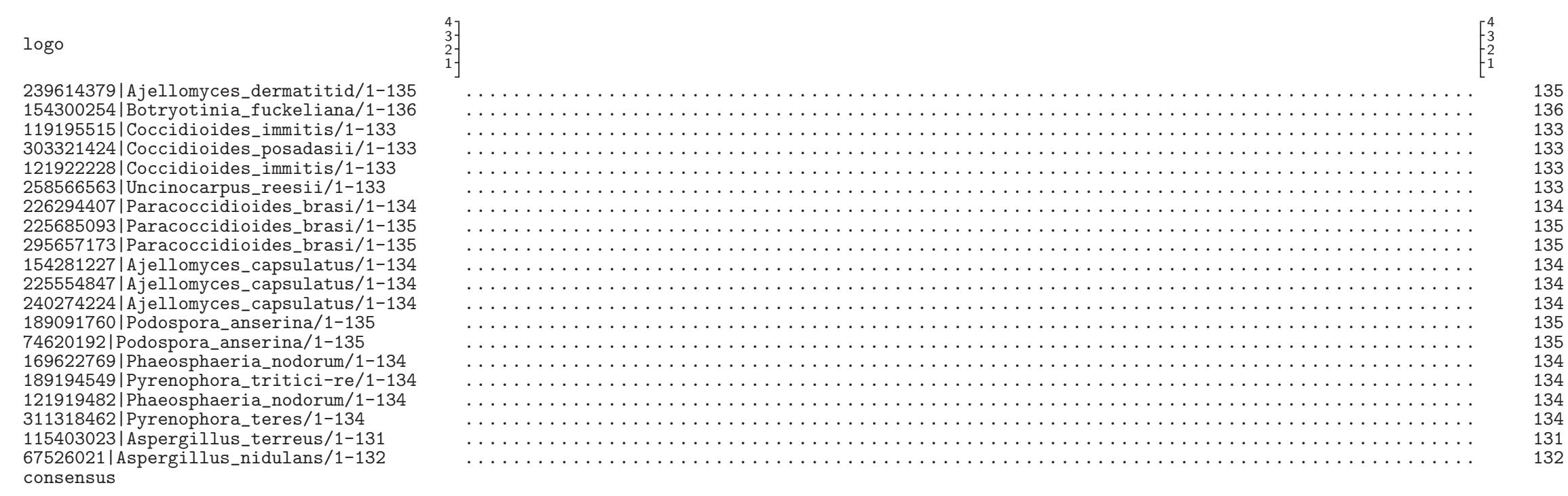
█ non conserved  
█ similar  
█ ≥ 50% conserved  
█ ≥ 80% conserved



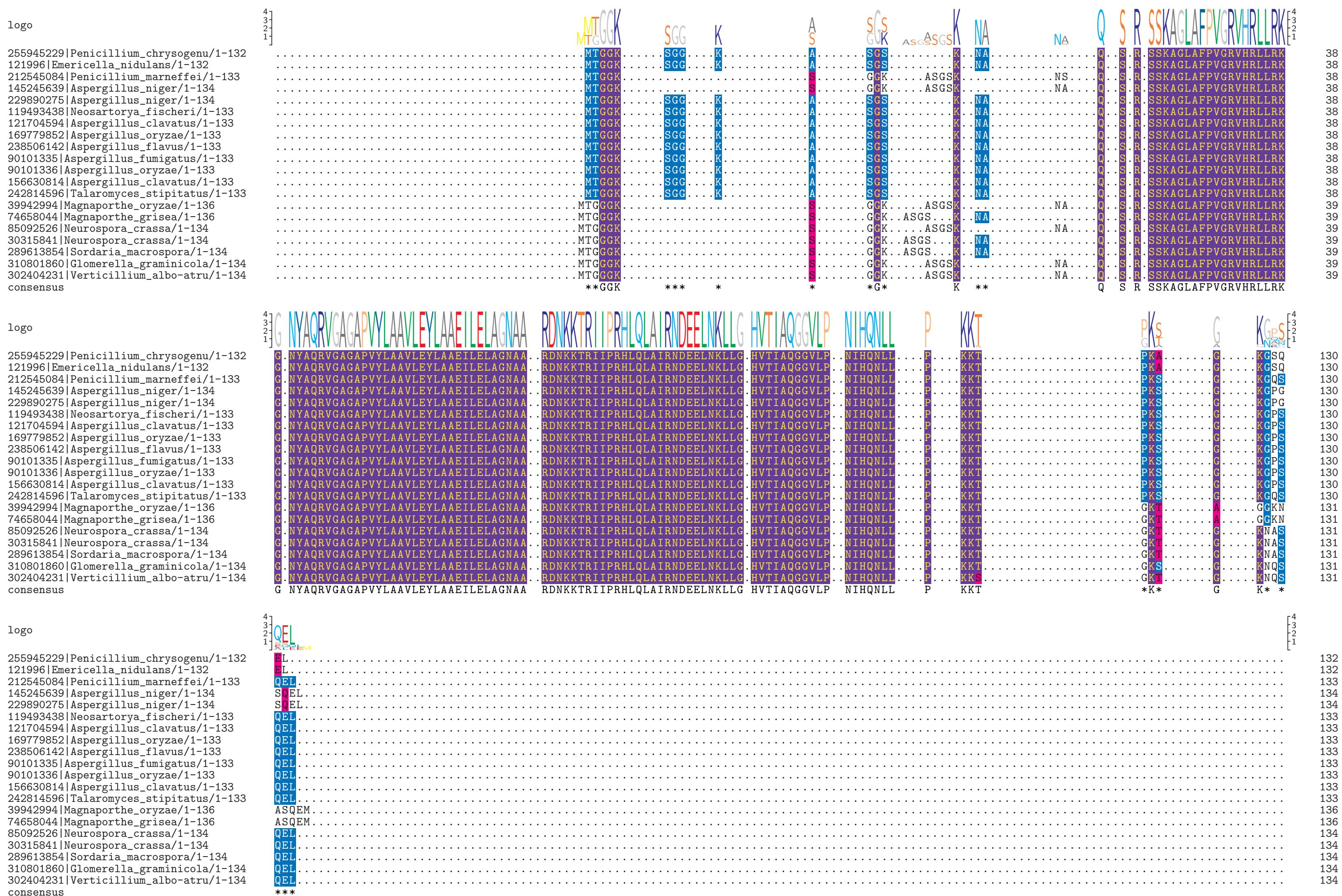


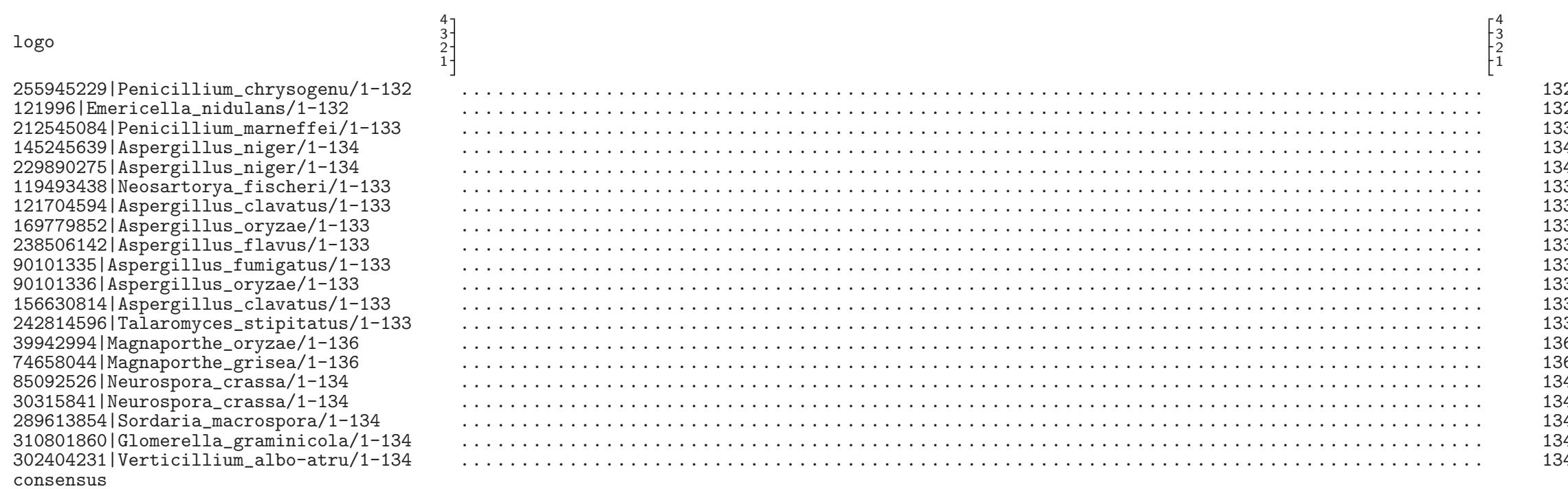
█ non conserved  
█ similar  
█ ≥ 50% conserved  
█ ≥ 80% conserved



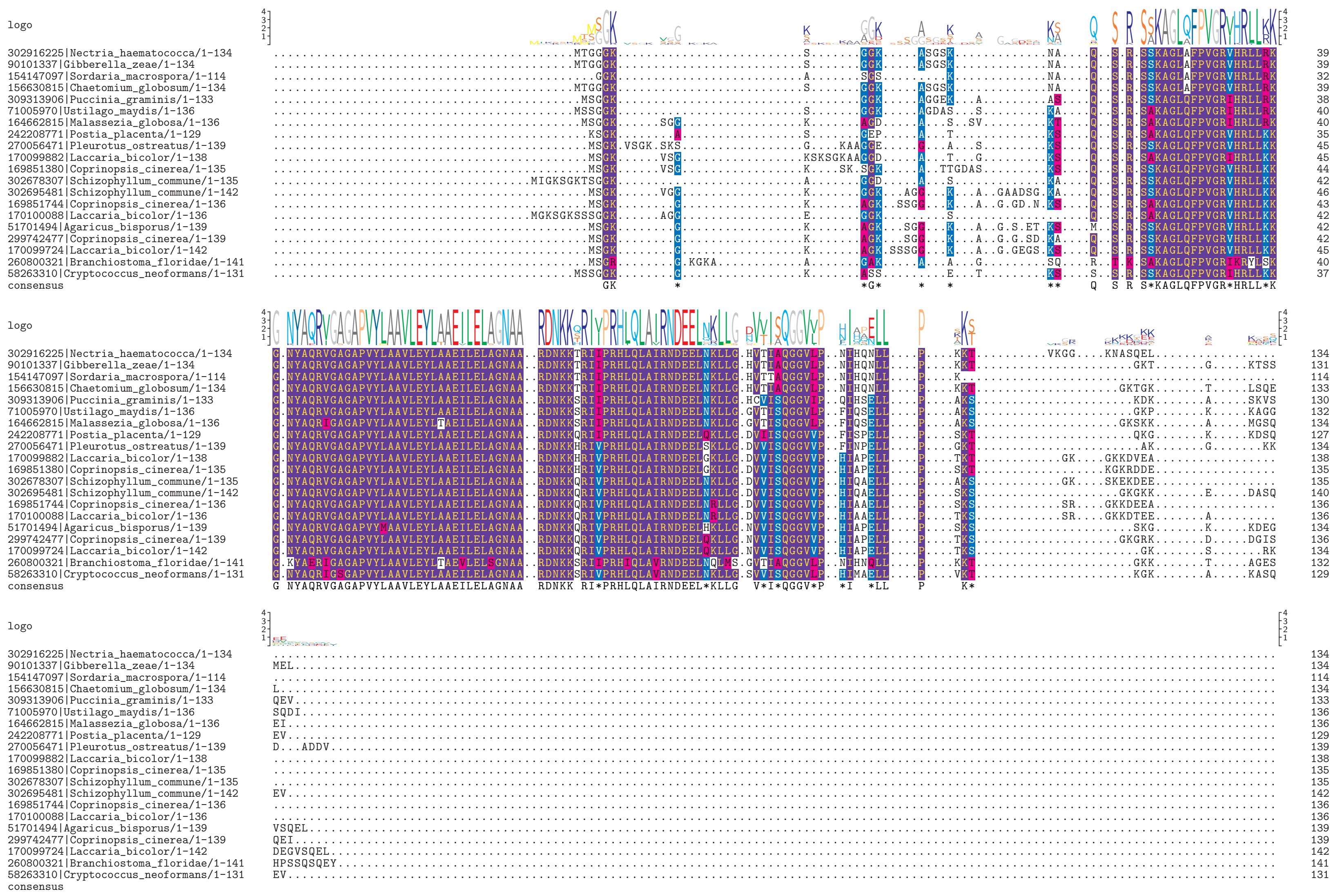


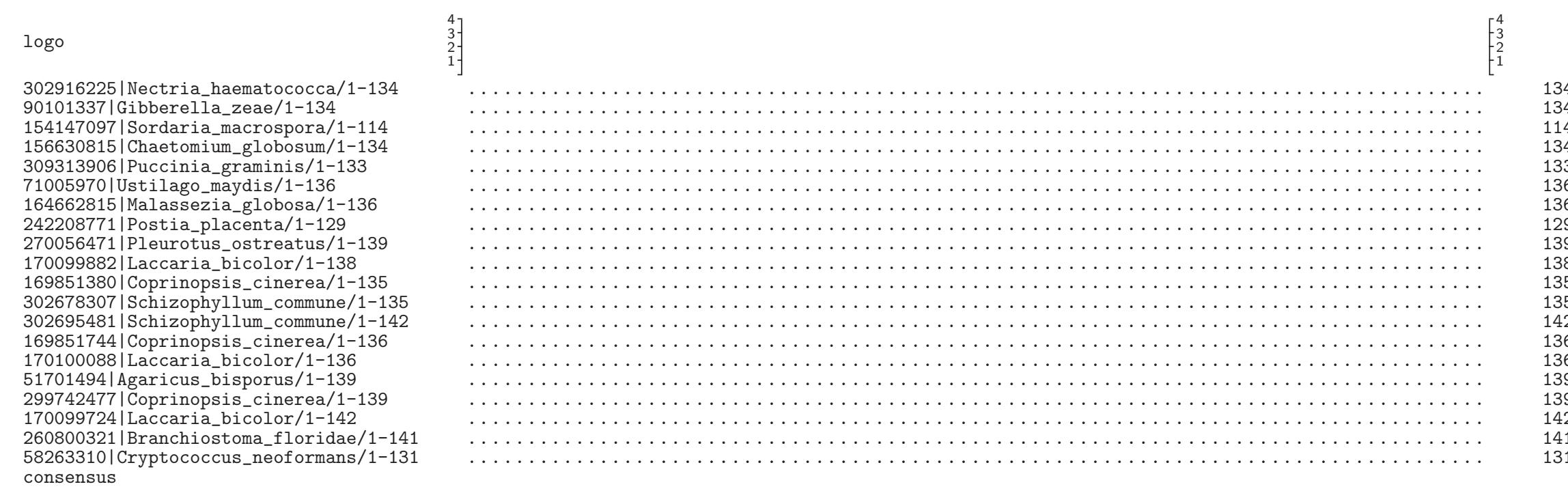
	non conserved
	similar
	≥ 50% conserved
	≥ 80% conserved



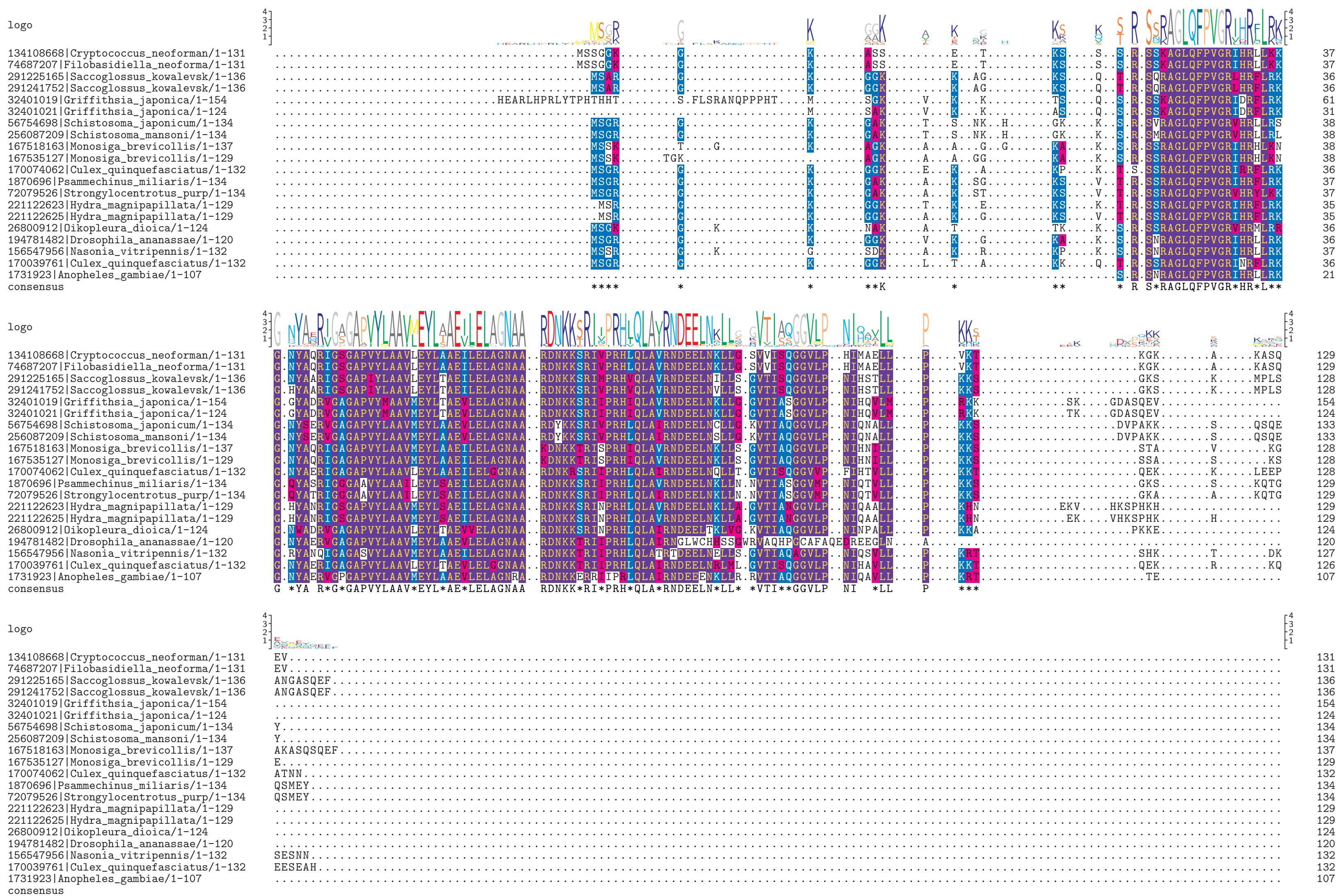


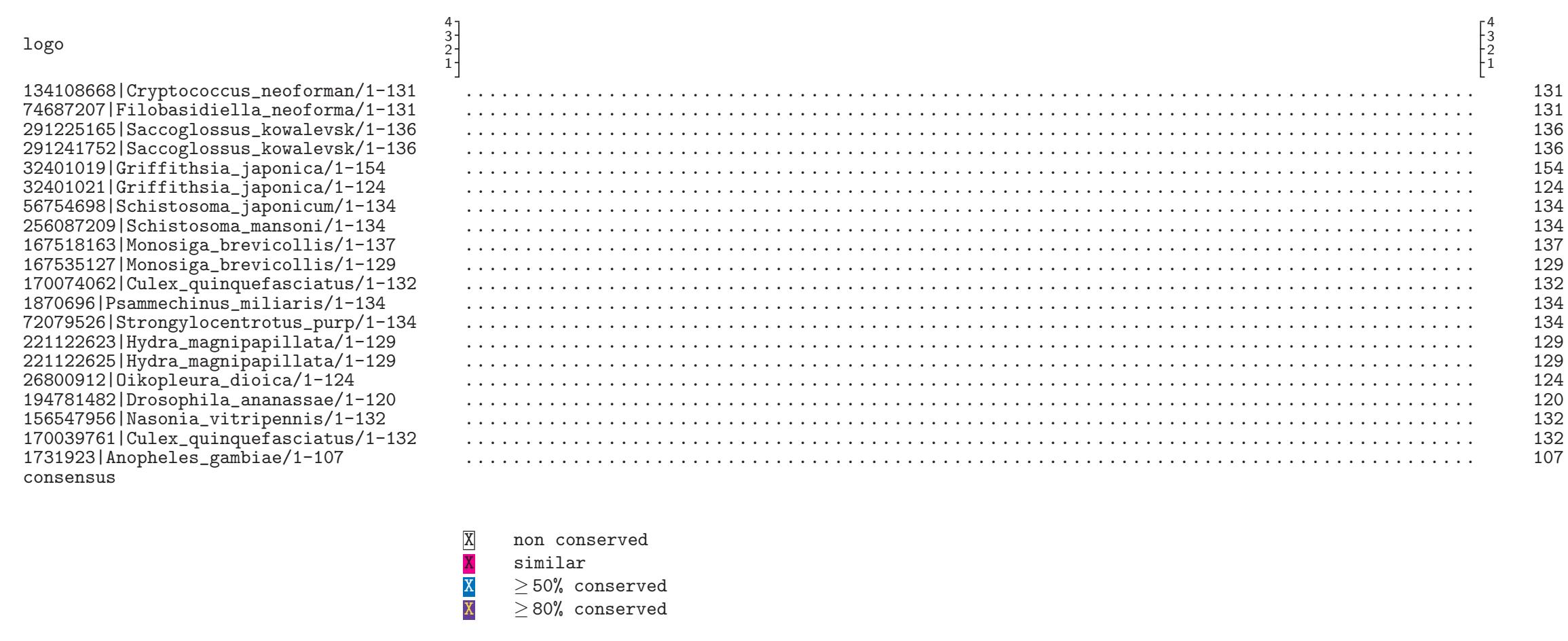
X	non conserved
X	similar
X	$\geq 50\%$ conserved
X	$\geq 80\%$ conserved

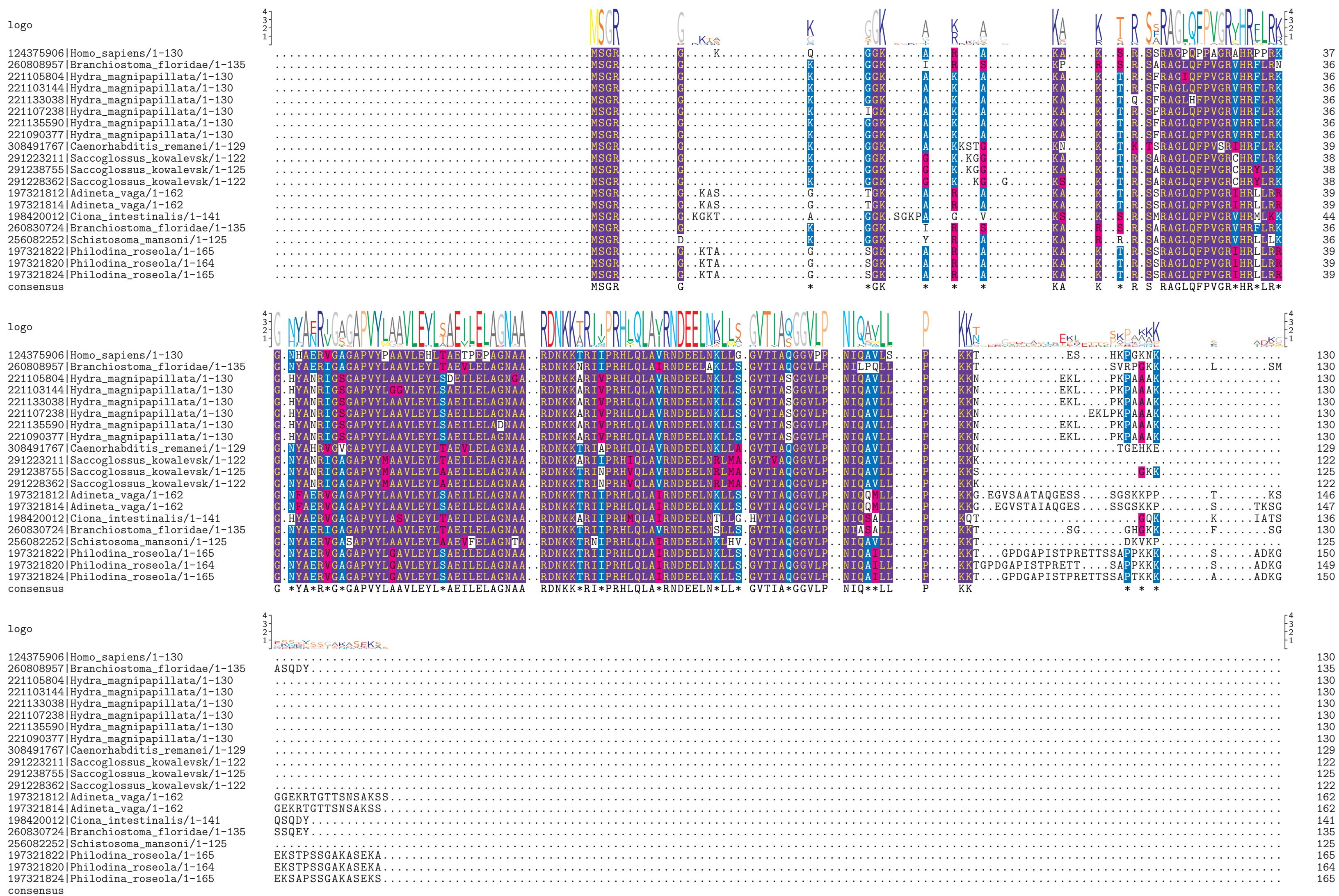


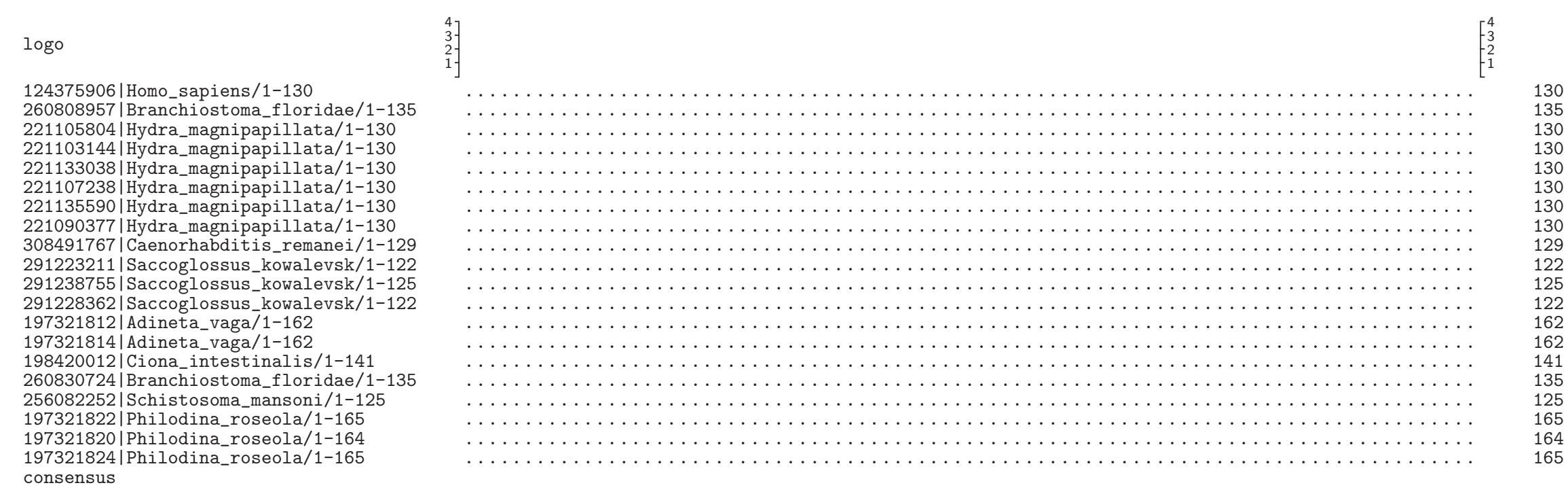


	non conserved
	similar
	≥ 50% conserved
	≥ 80% conserved

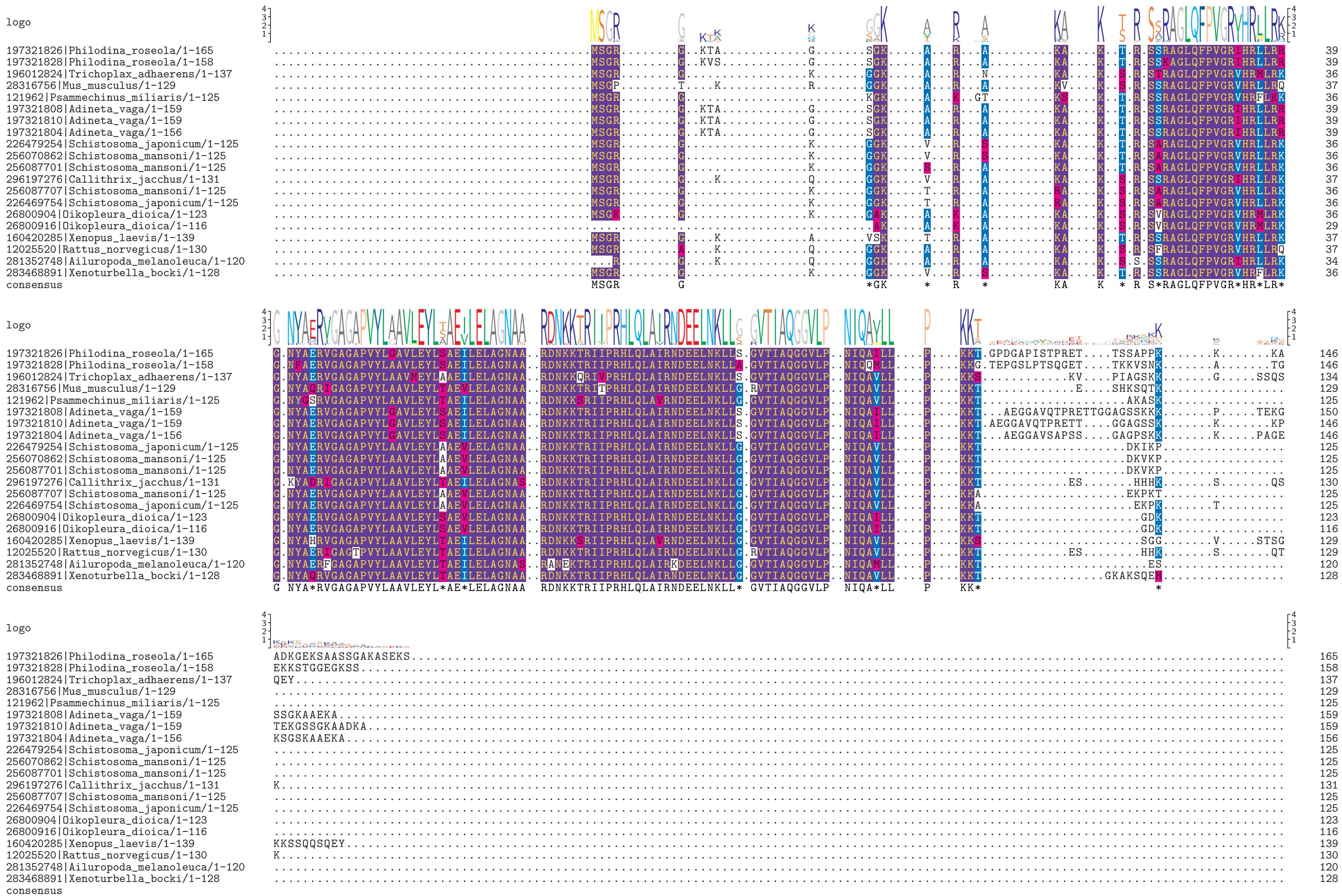


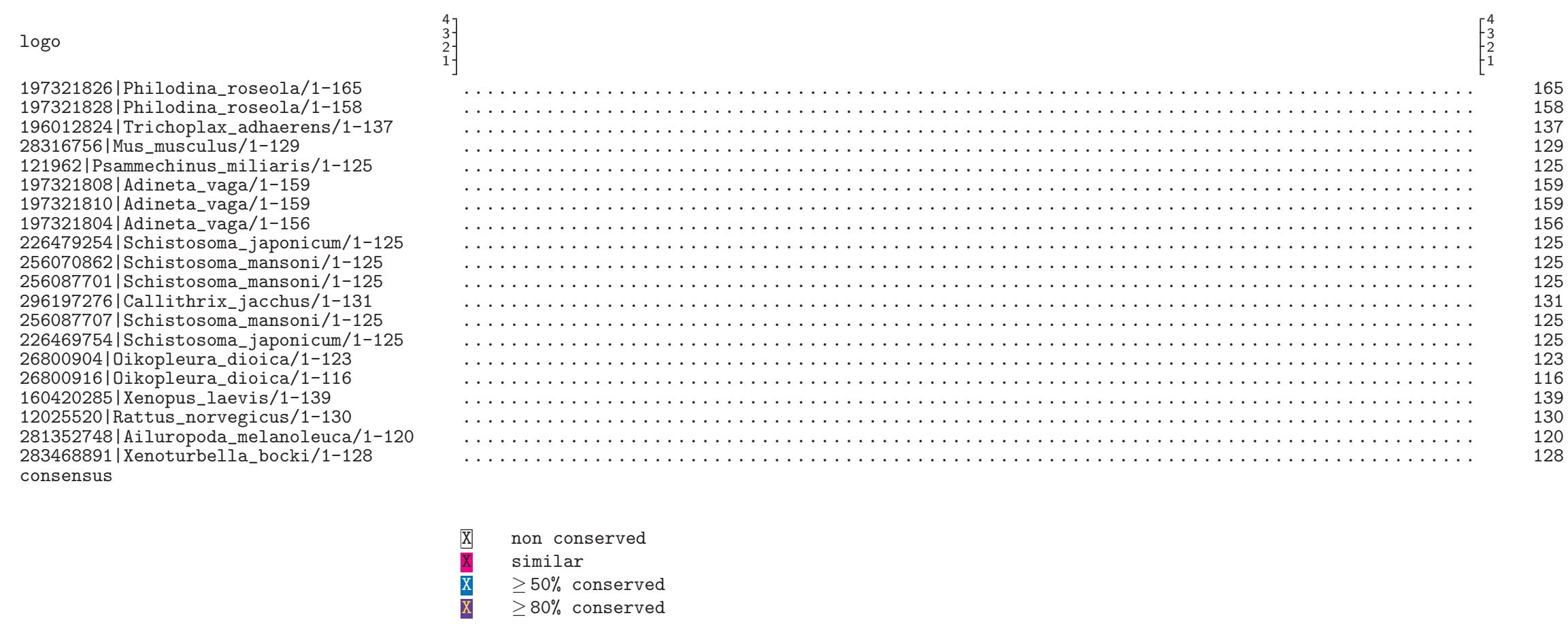


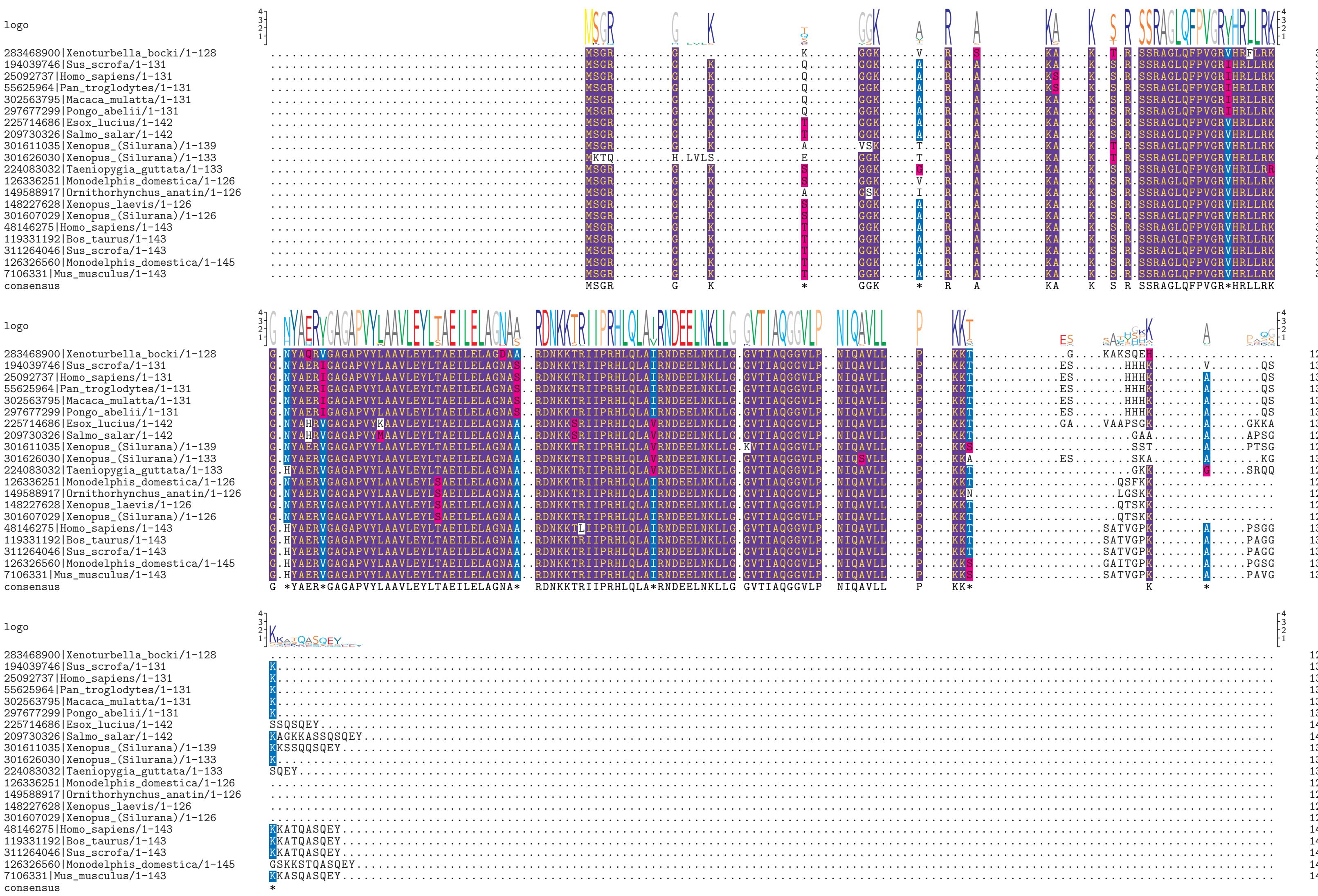


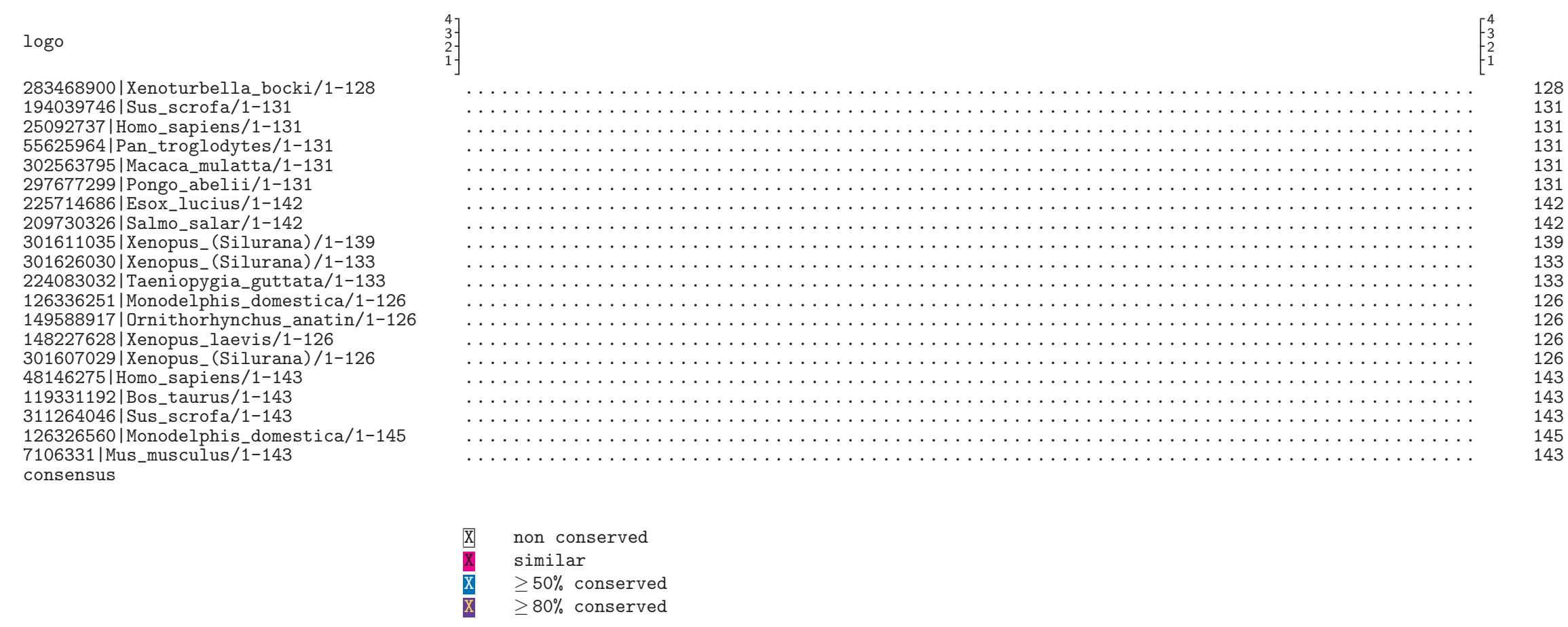


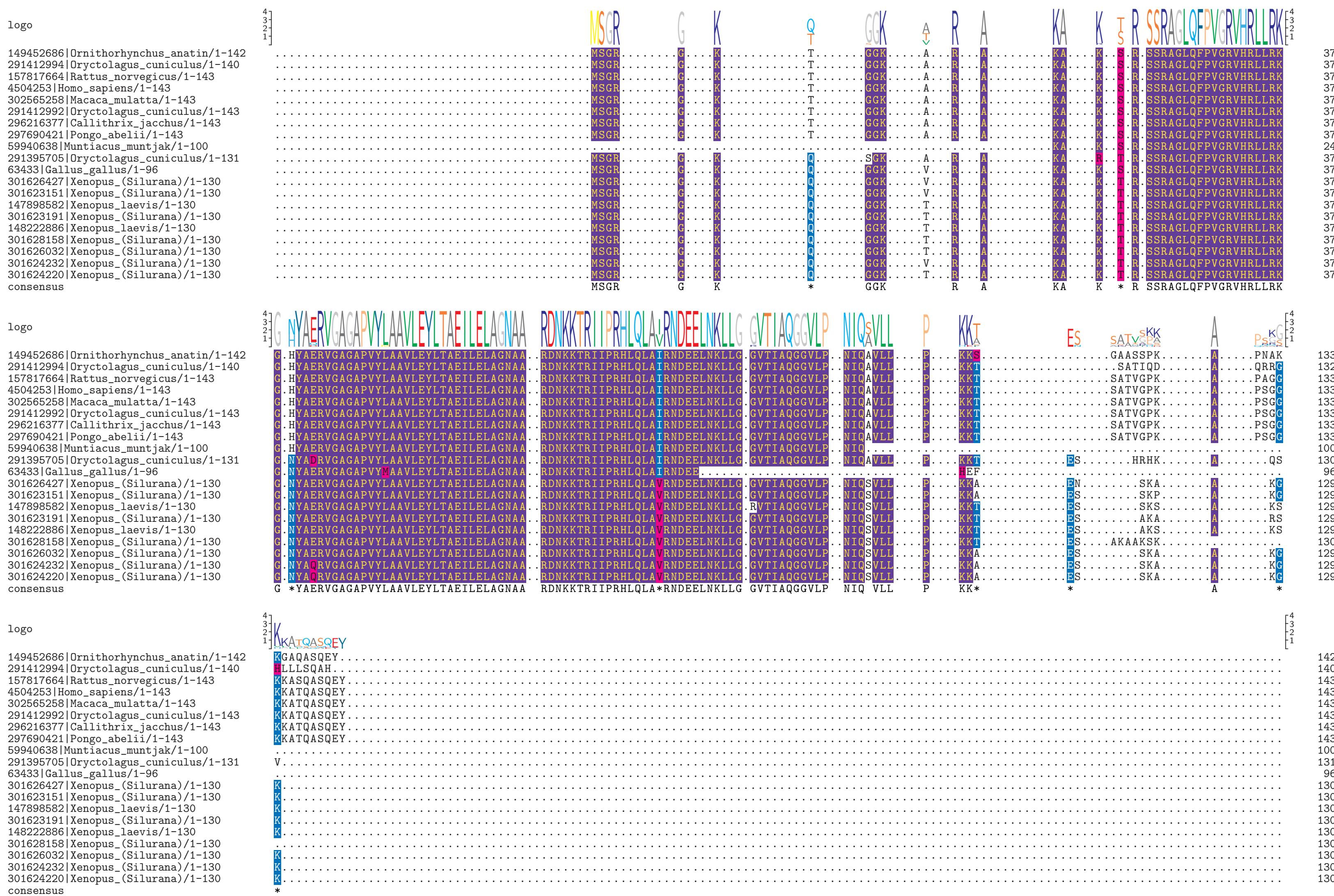
X non conserved  
X similar  
X ≥ 50% conserved  
X ≥ 80% conserved

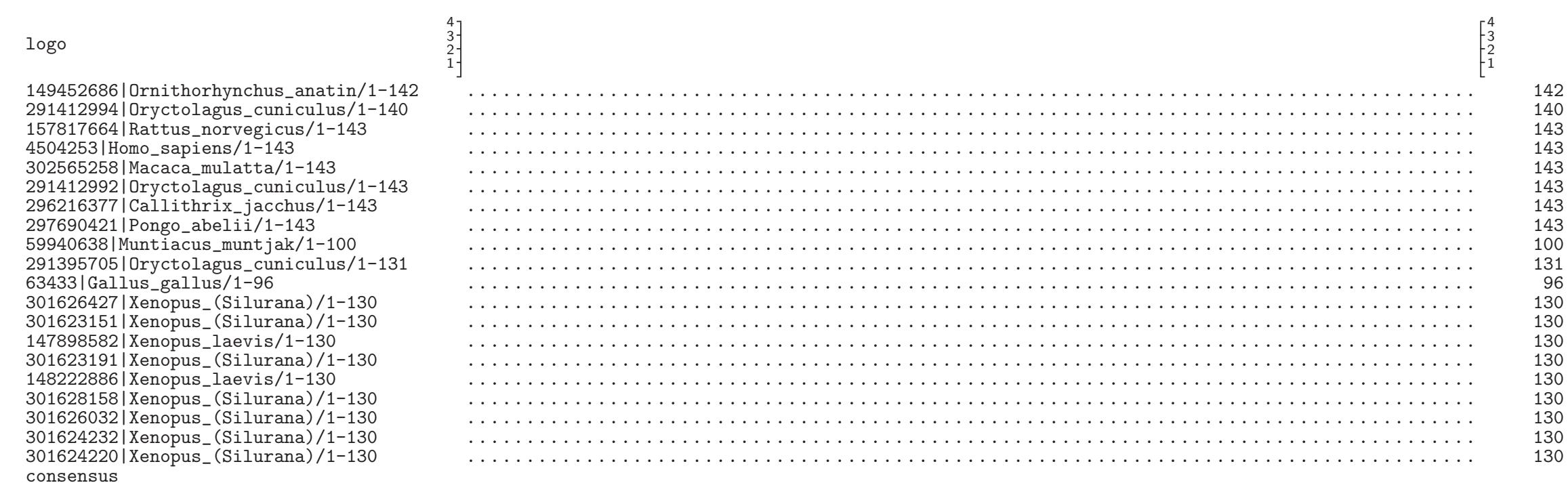




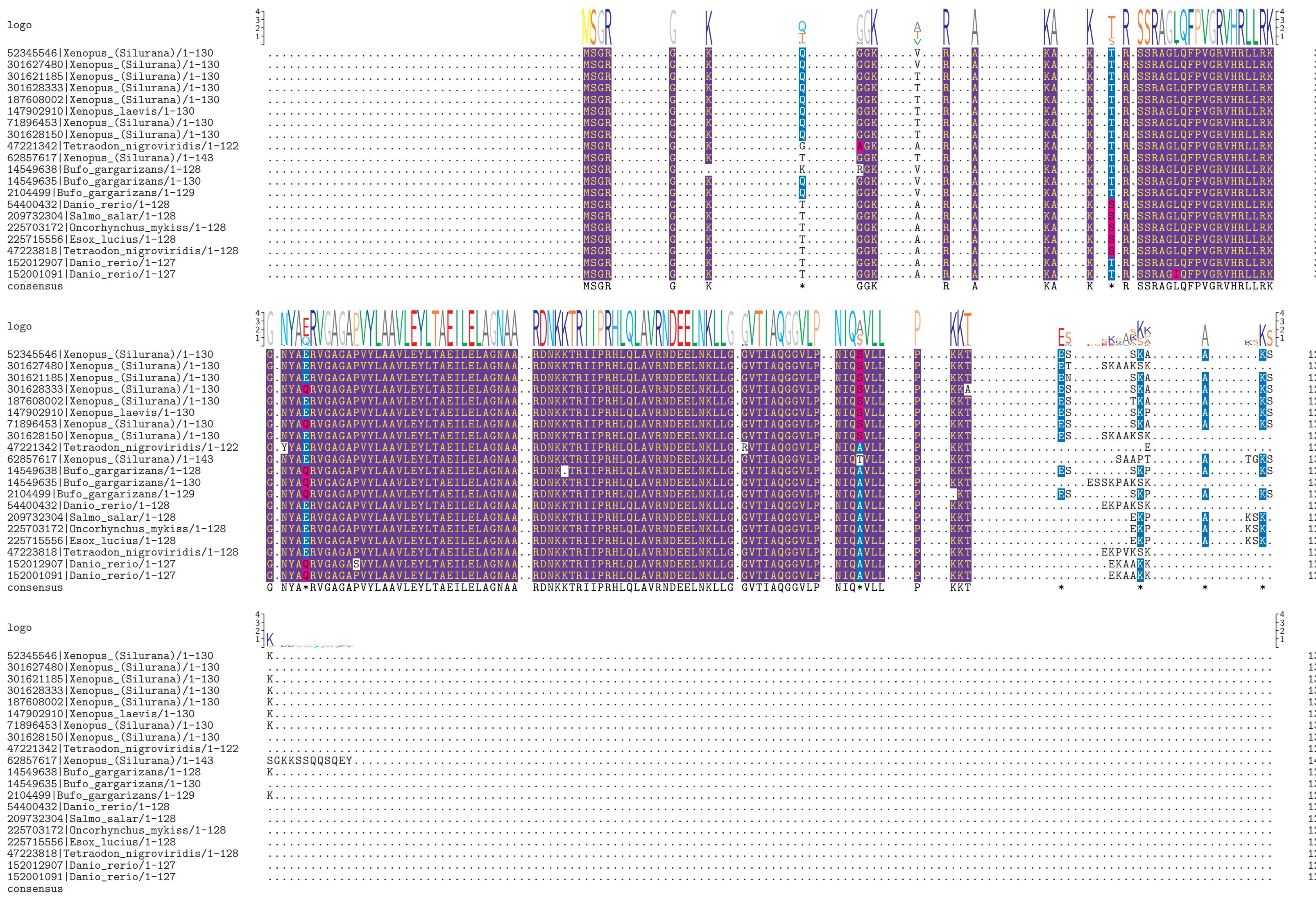


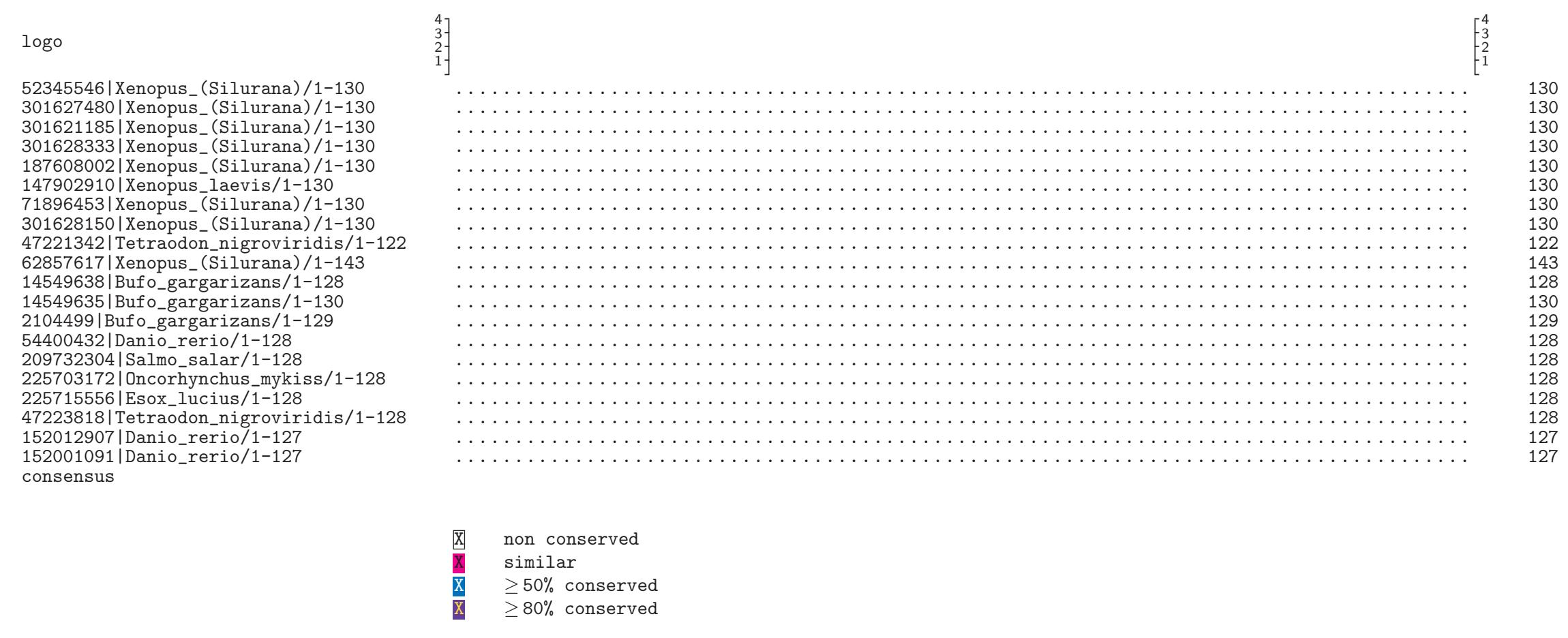


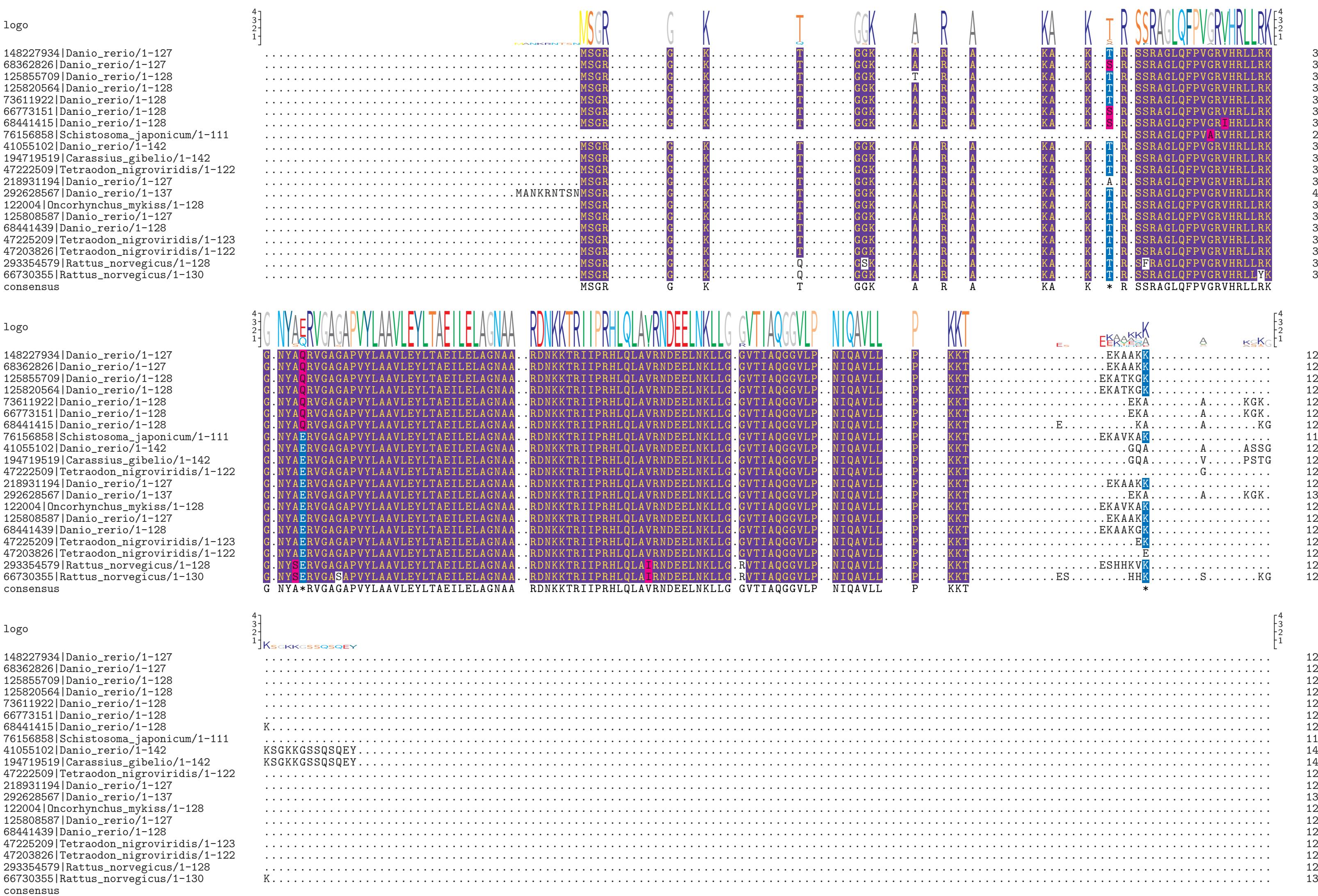


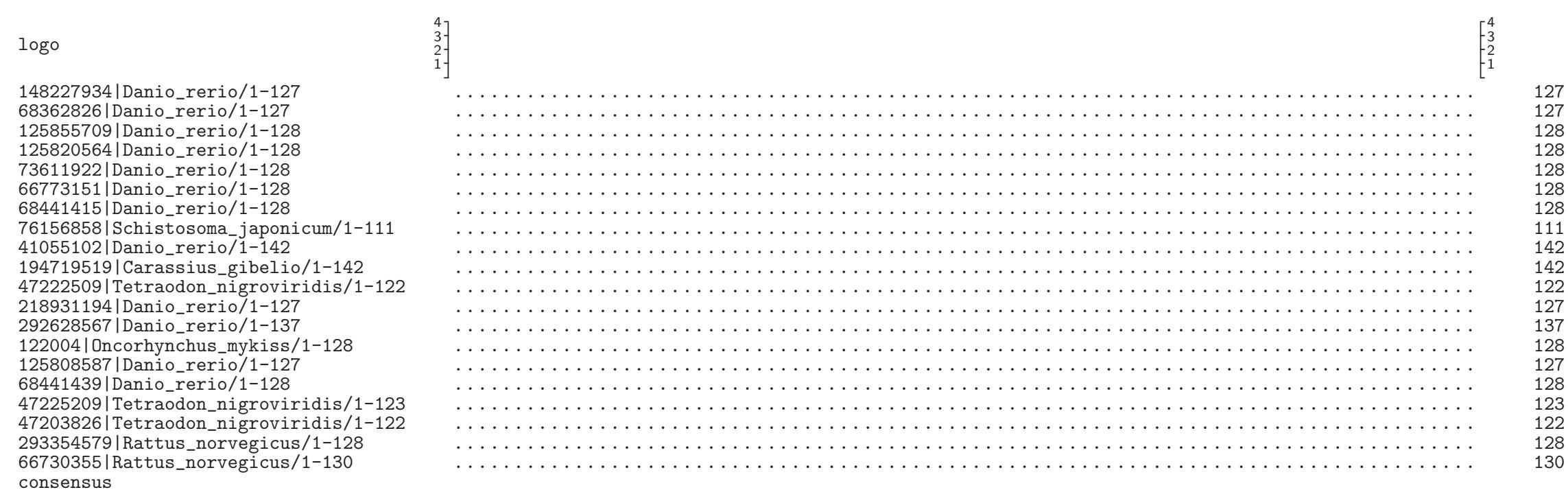


non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved

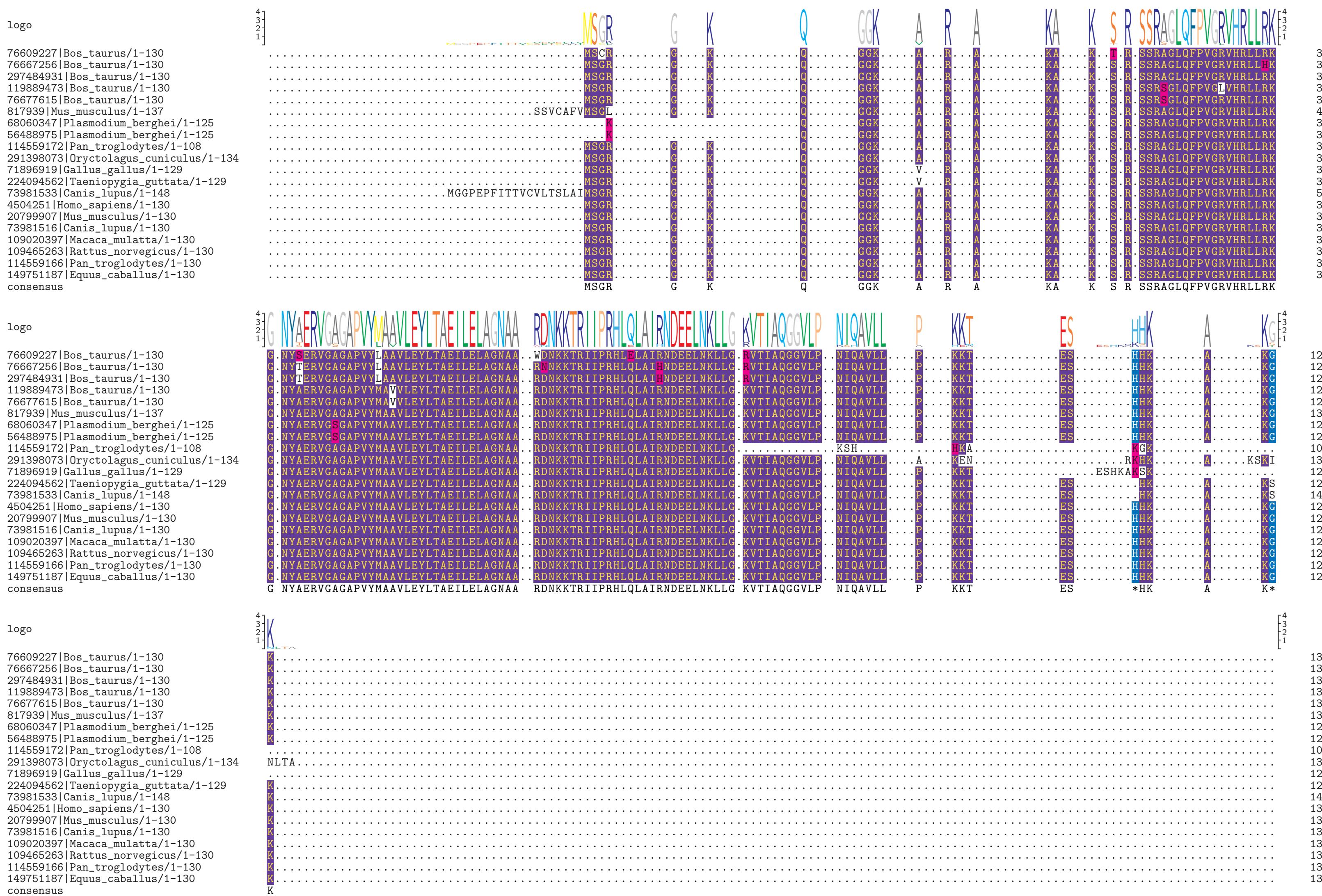


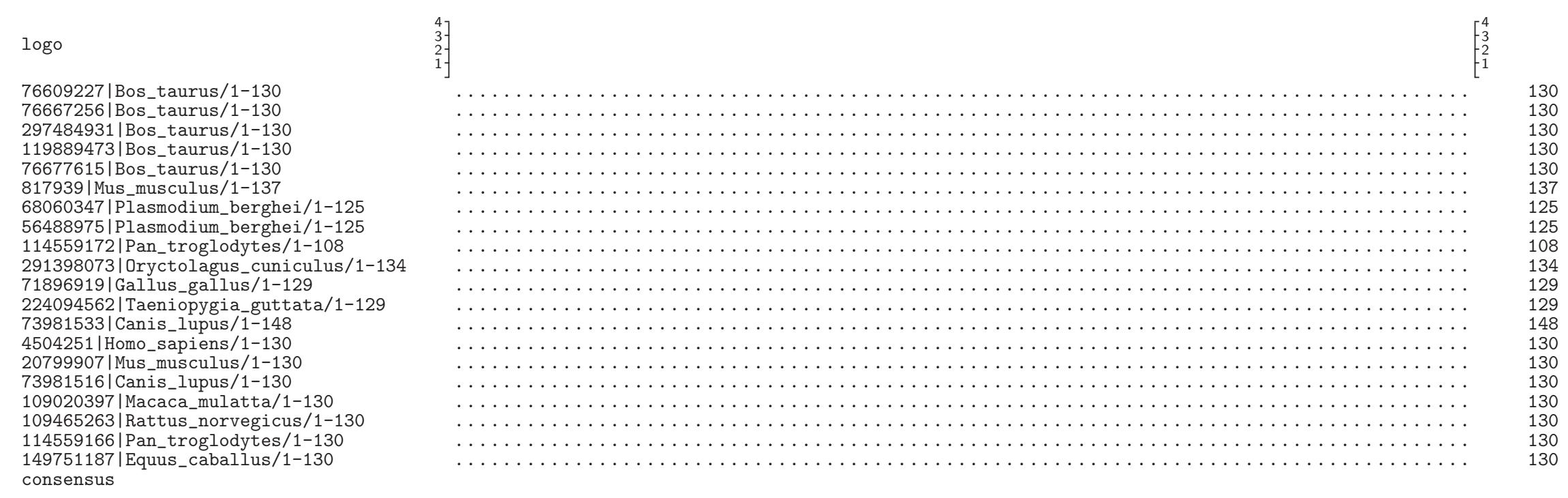




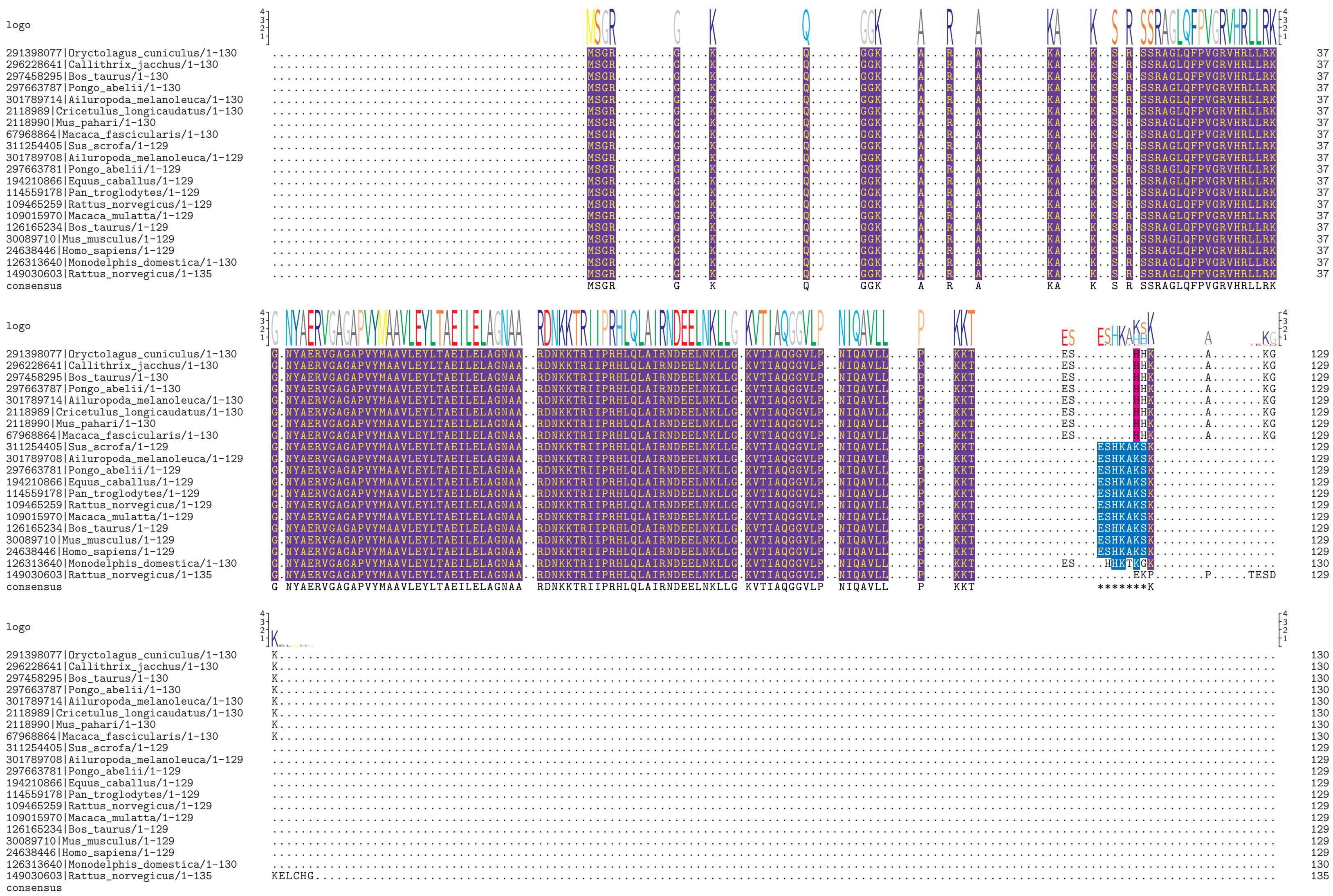


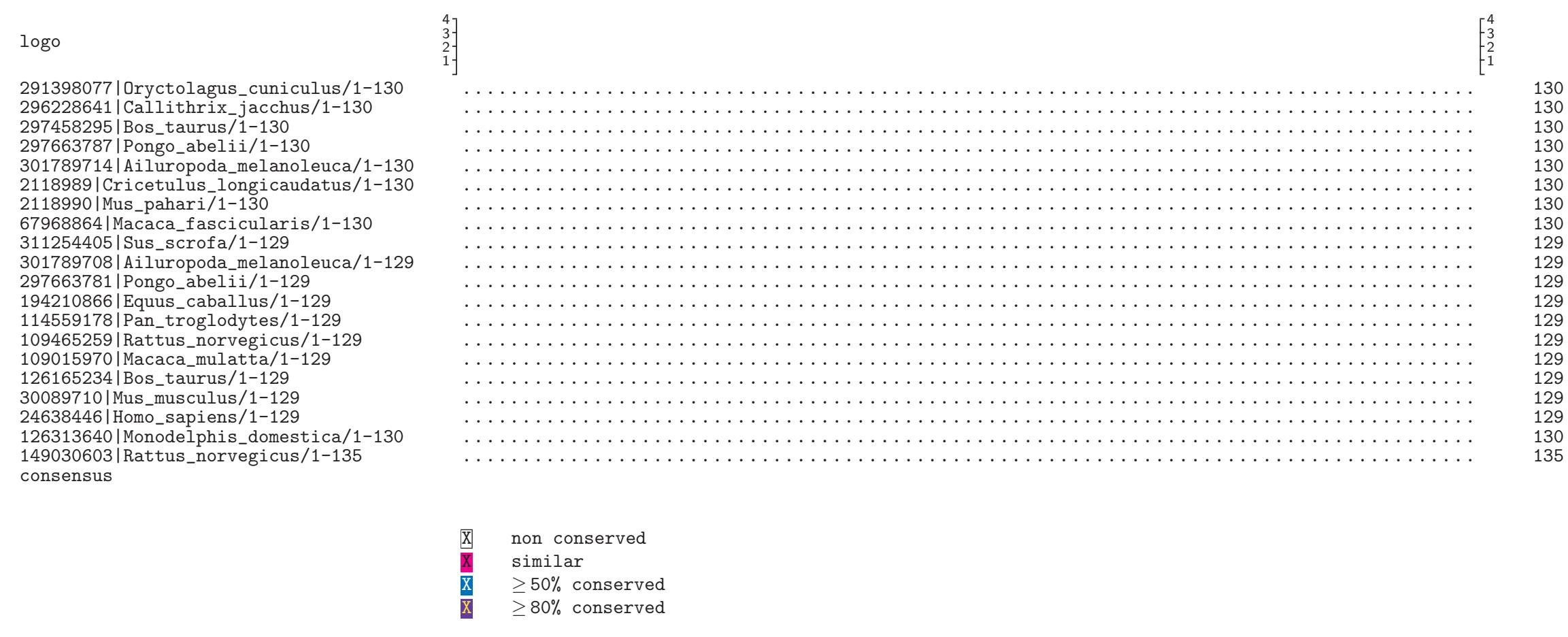
X non conserved  
X similar  
X  $\geq 50\%$  conserved  
X  $\geq 80\%$  conserved

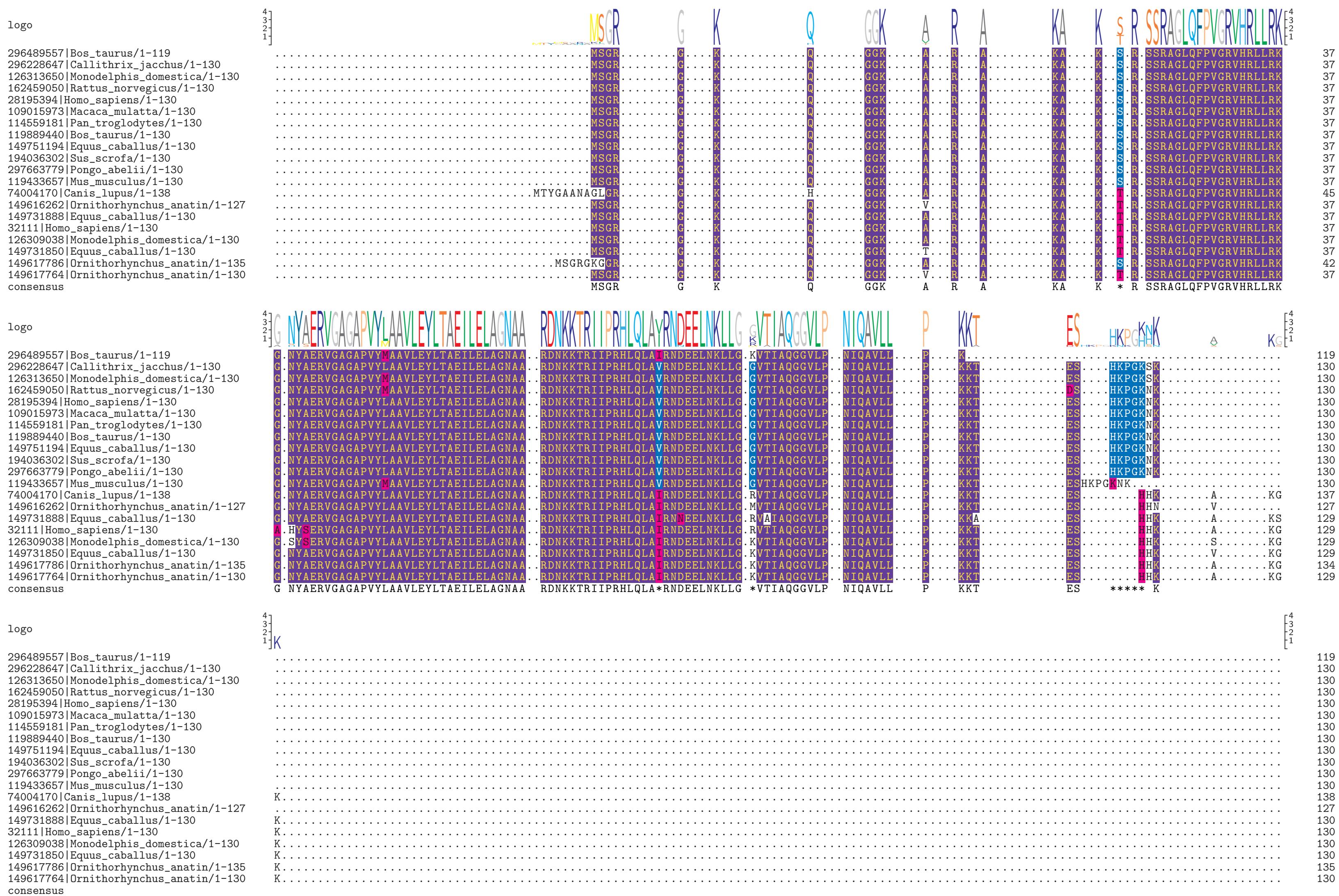


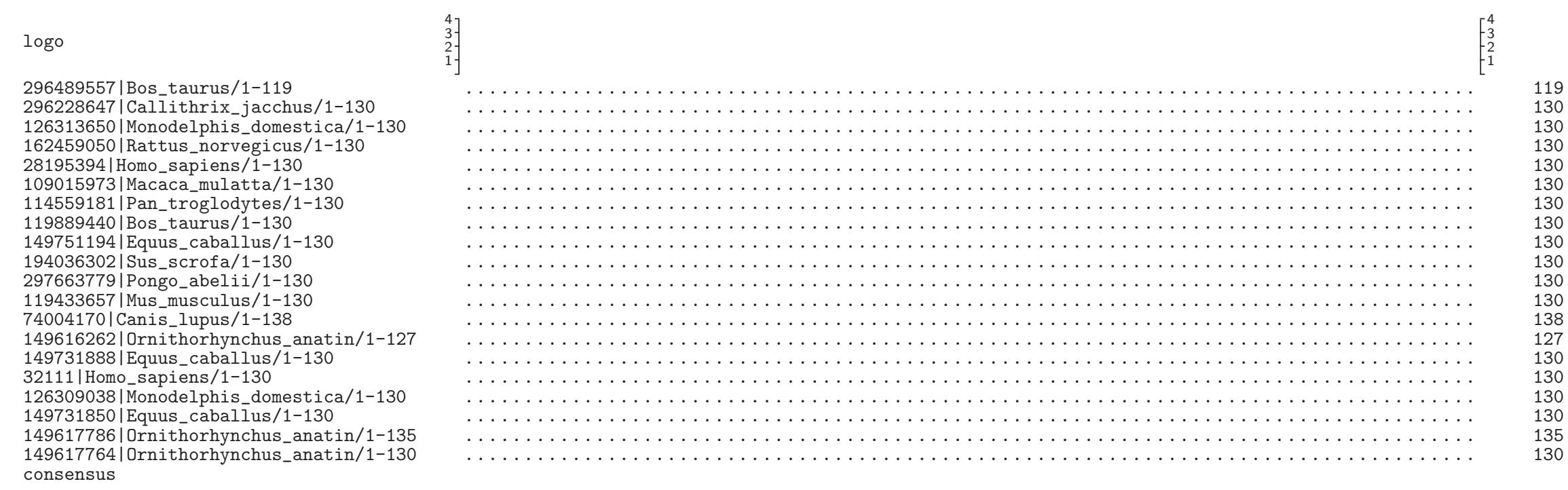


█ non conserved  
█ similar  
█ ≥ 50% conserved  
█ ≥ 80% conserved

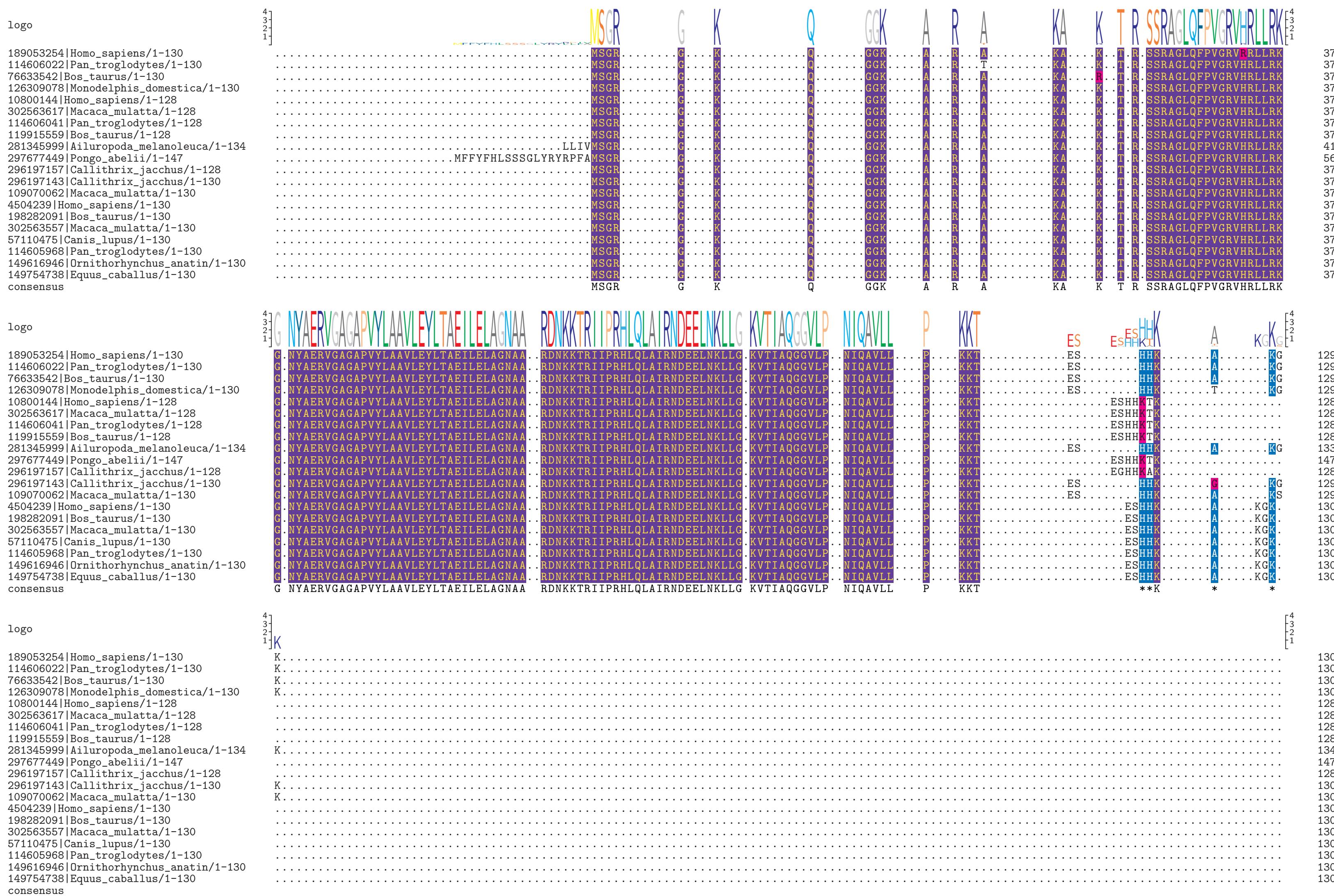


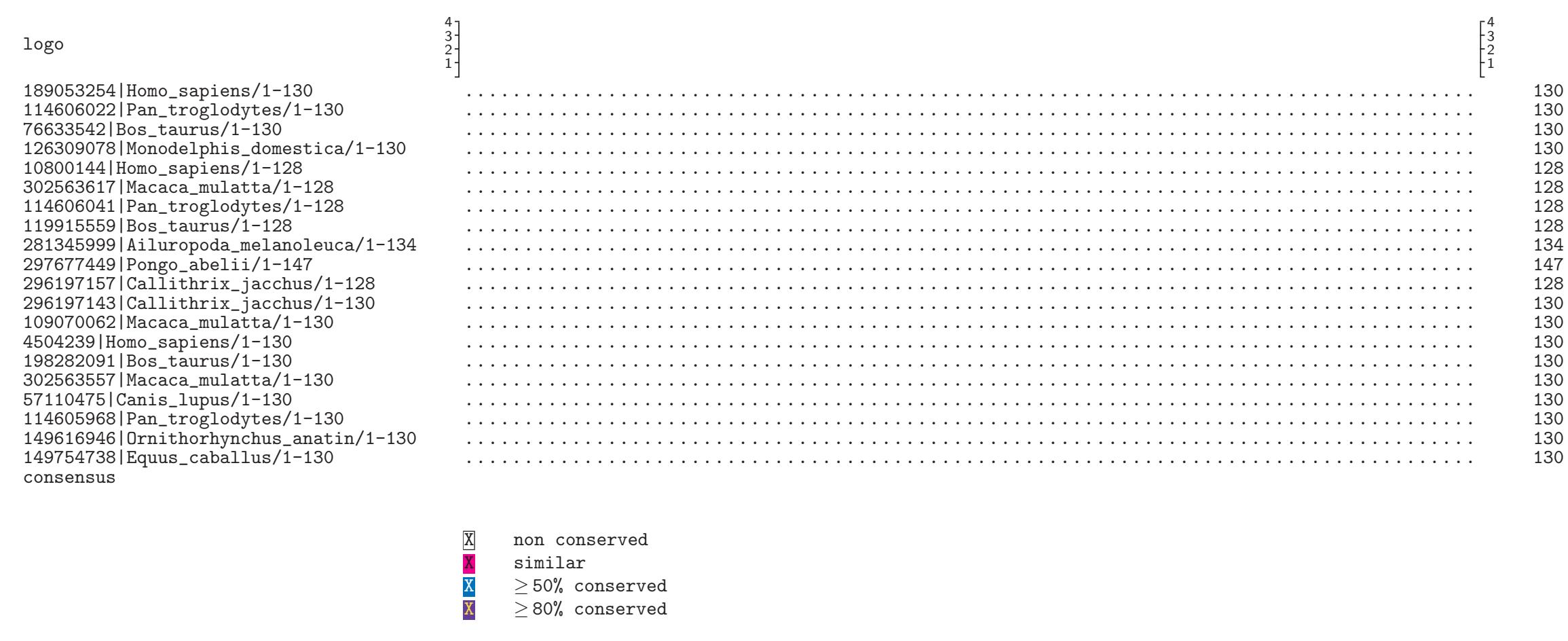


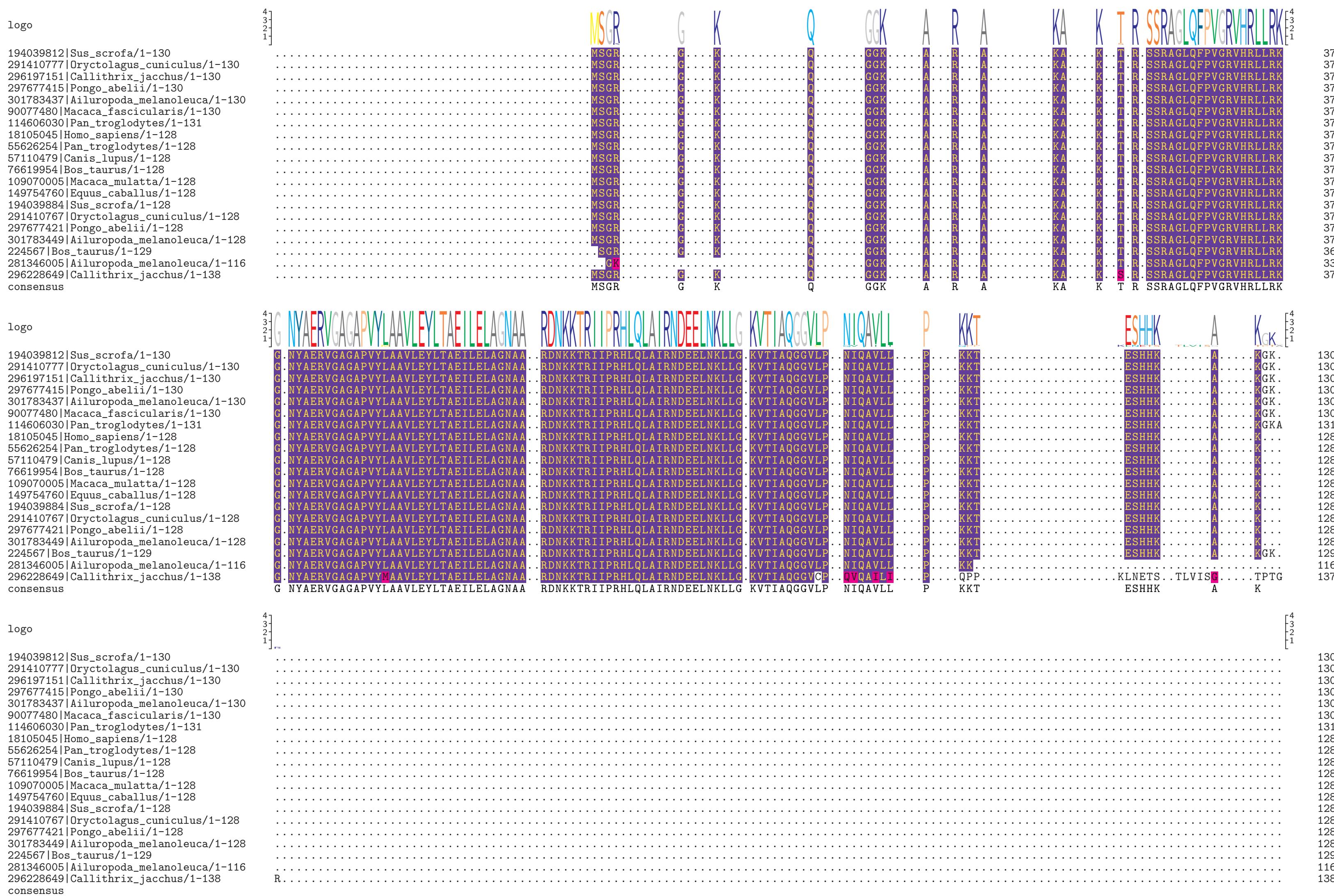


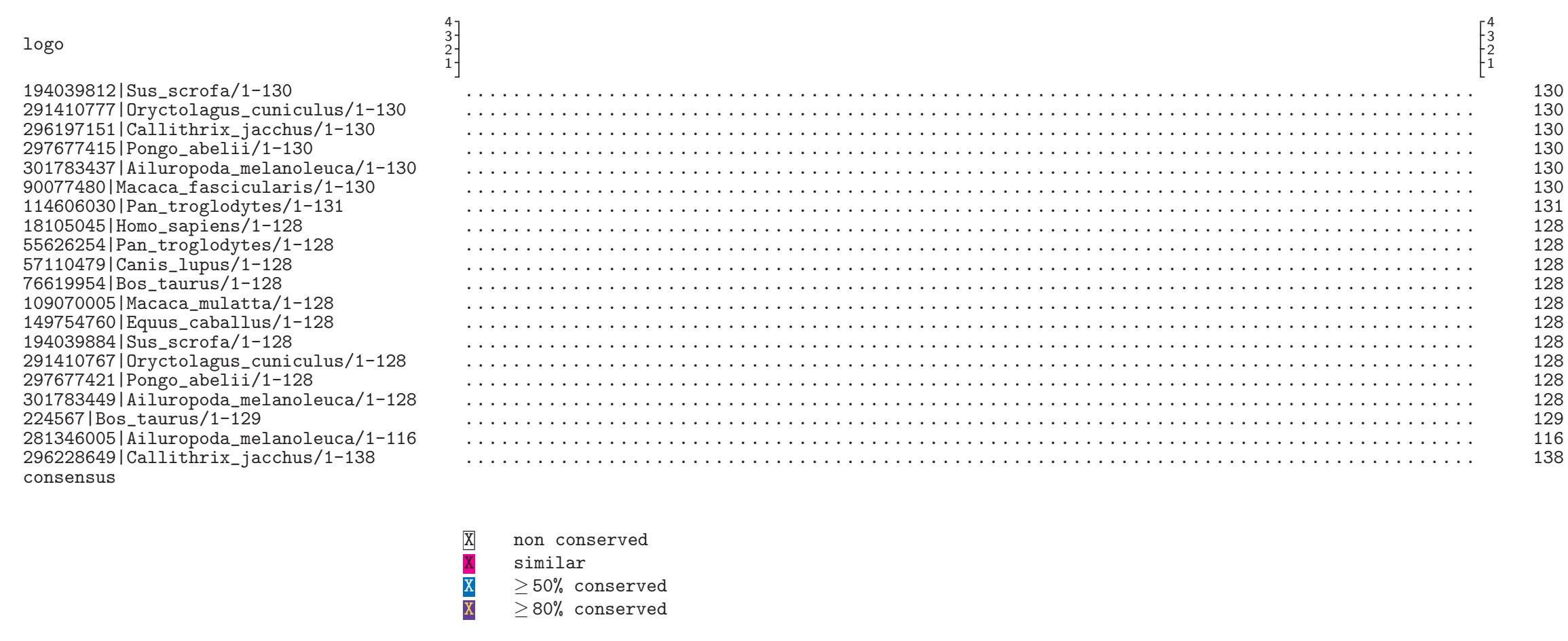


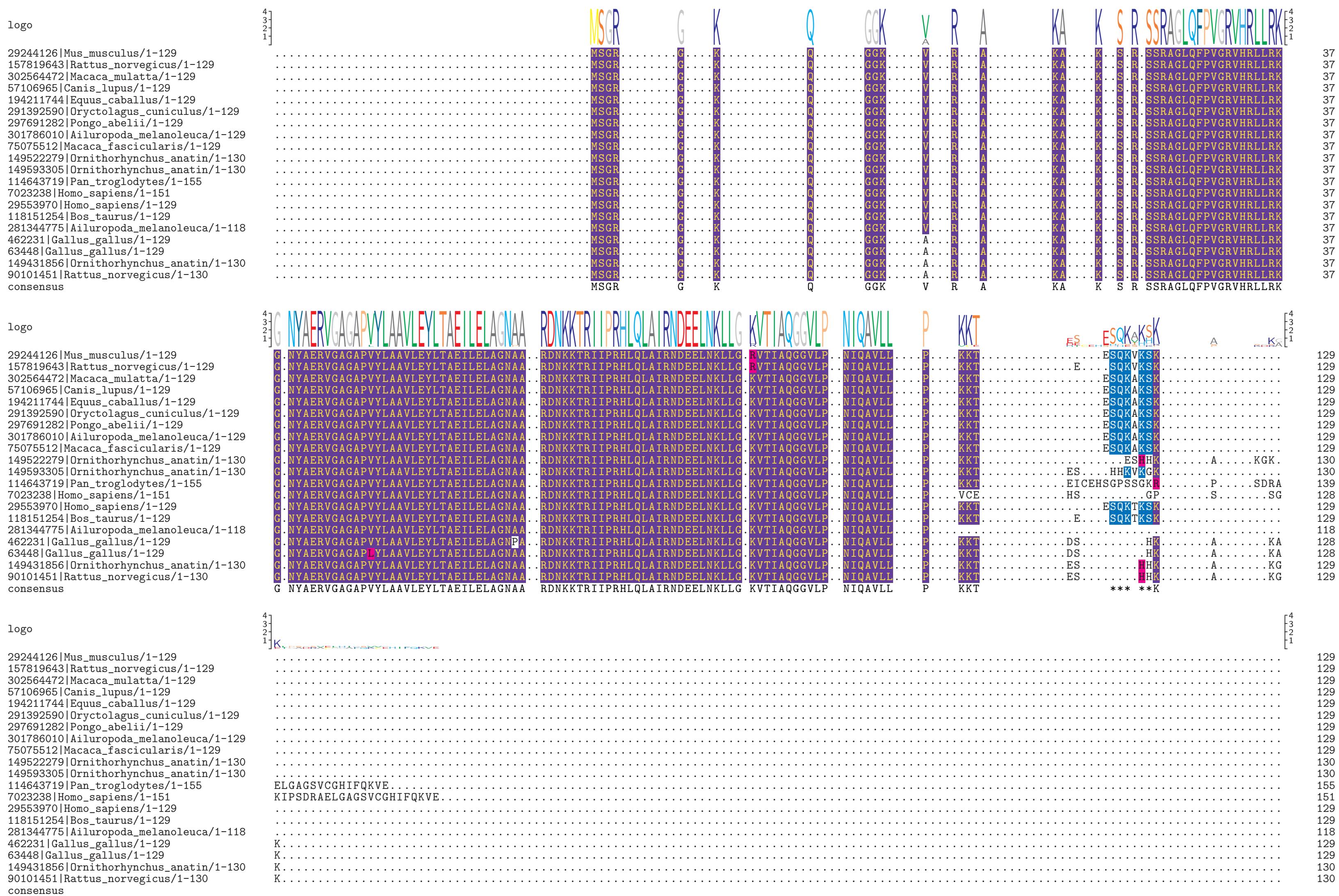
non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved

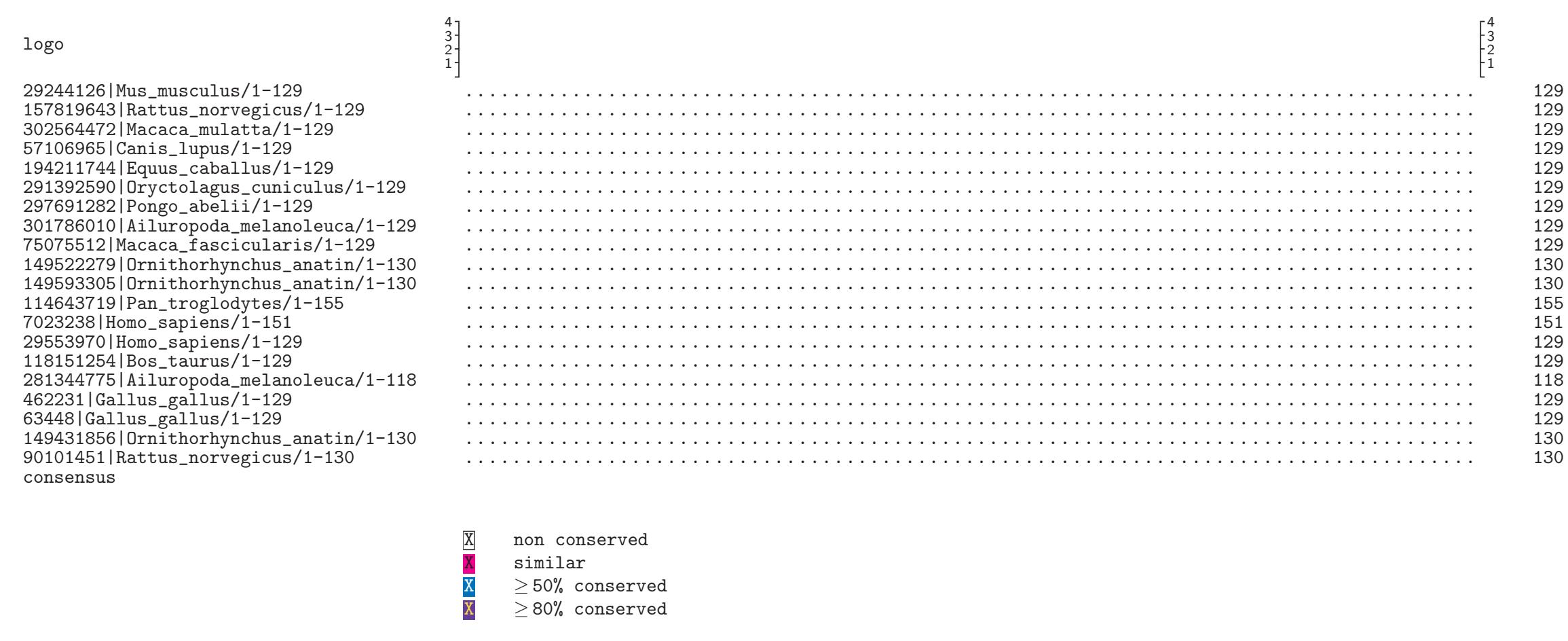




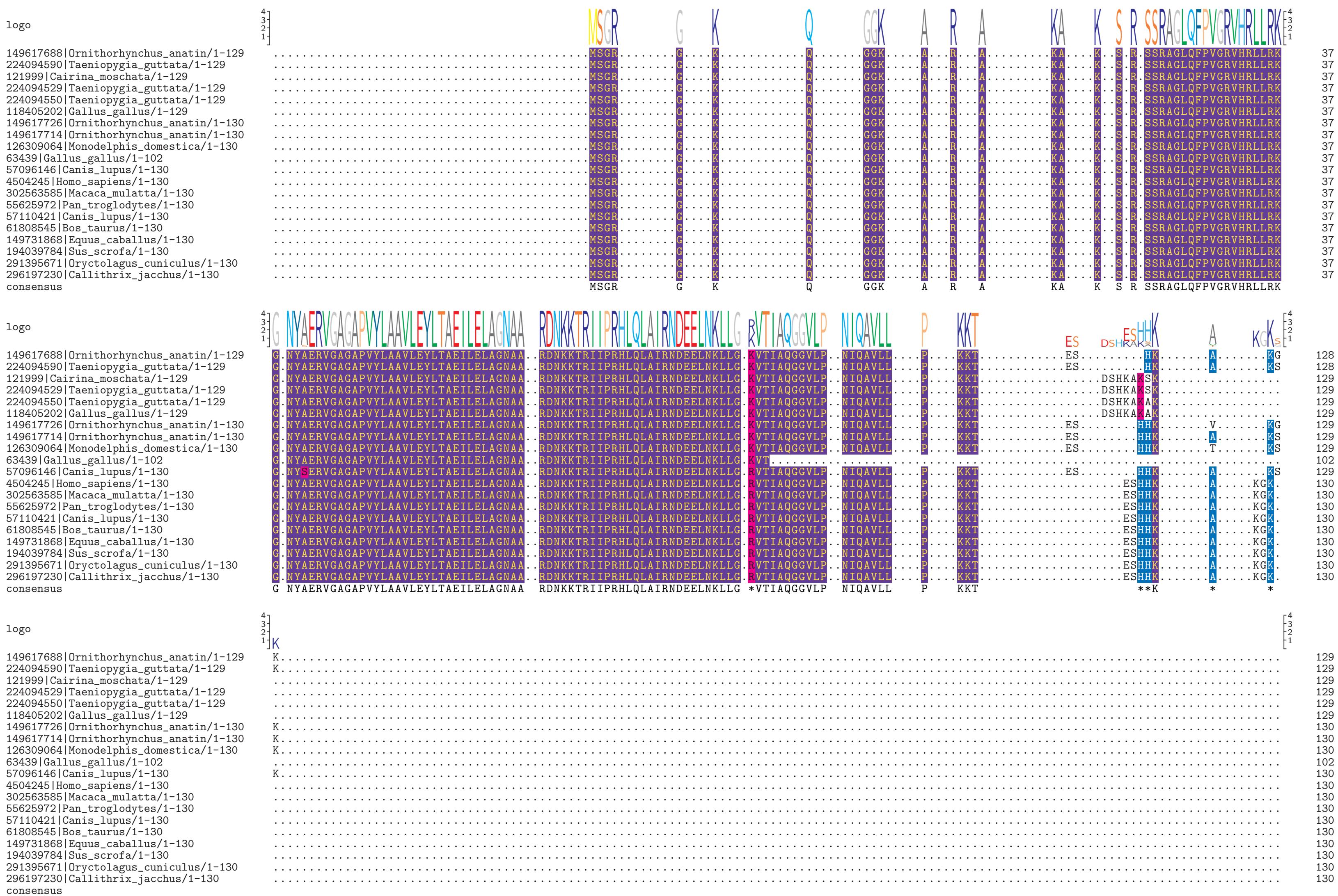


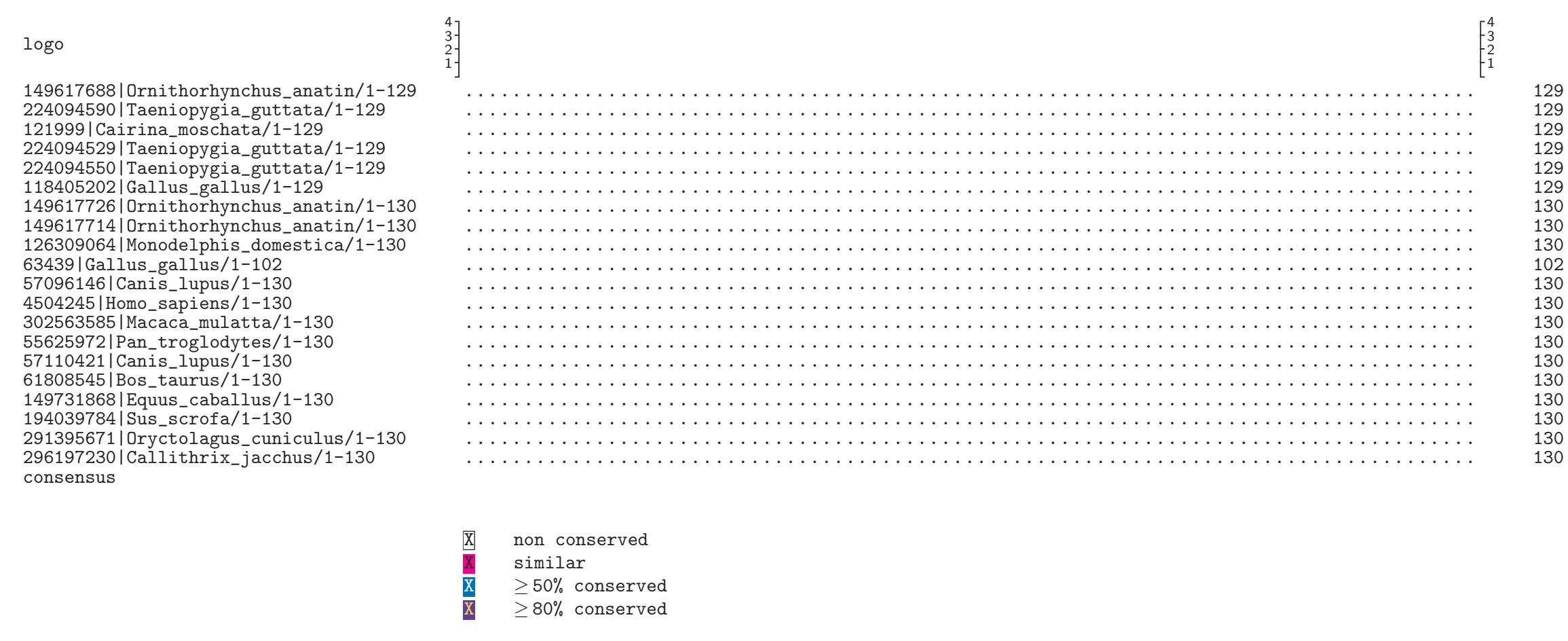


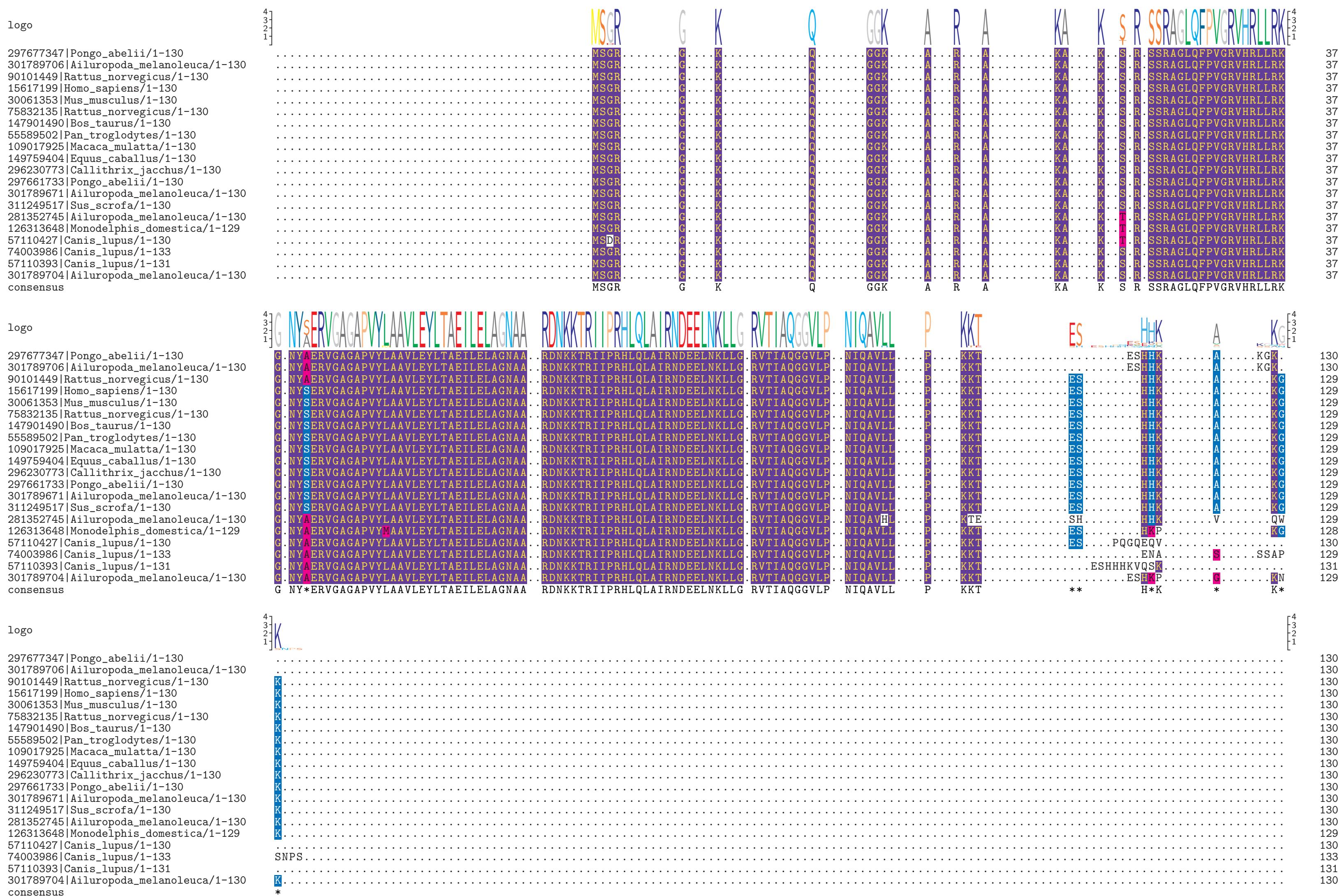


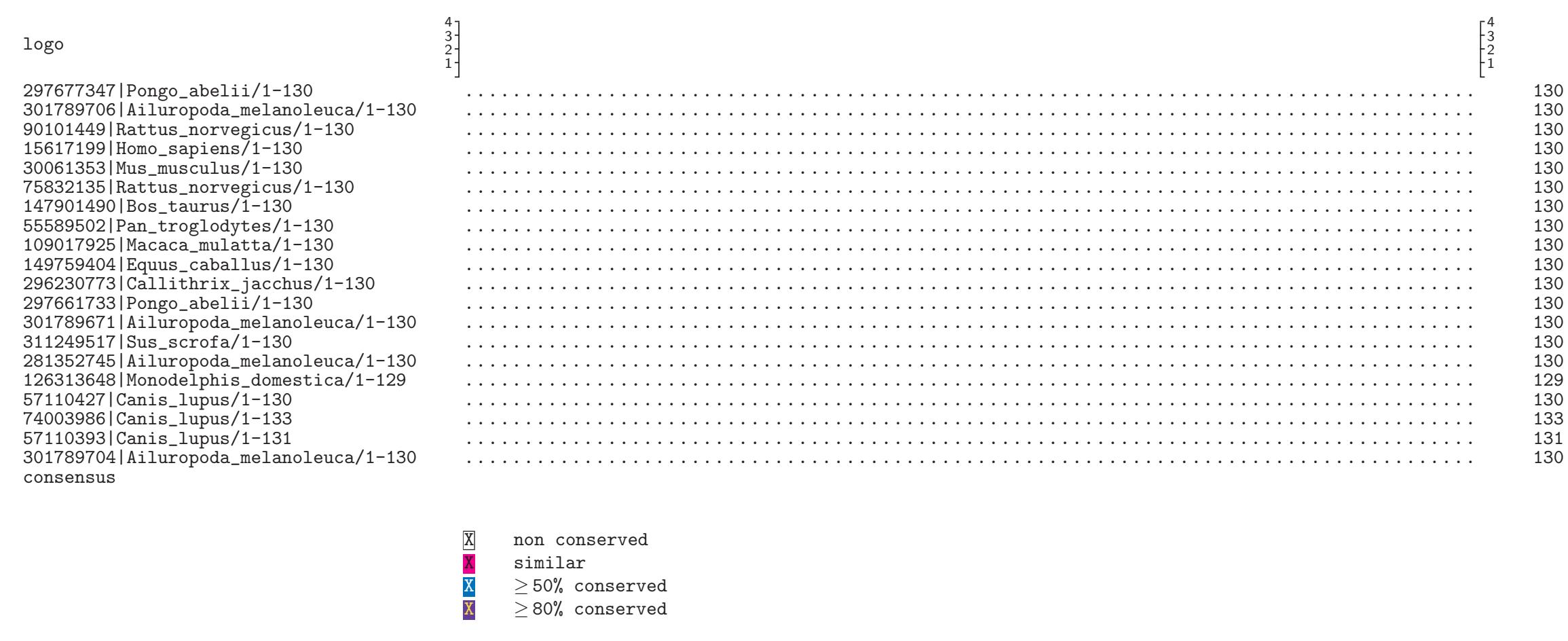


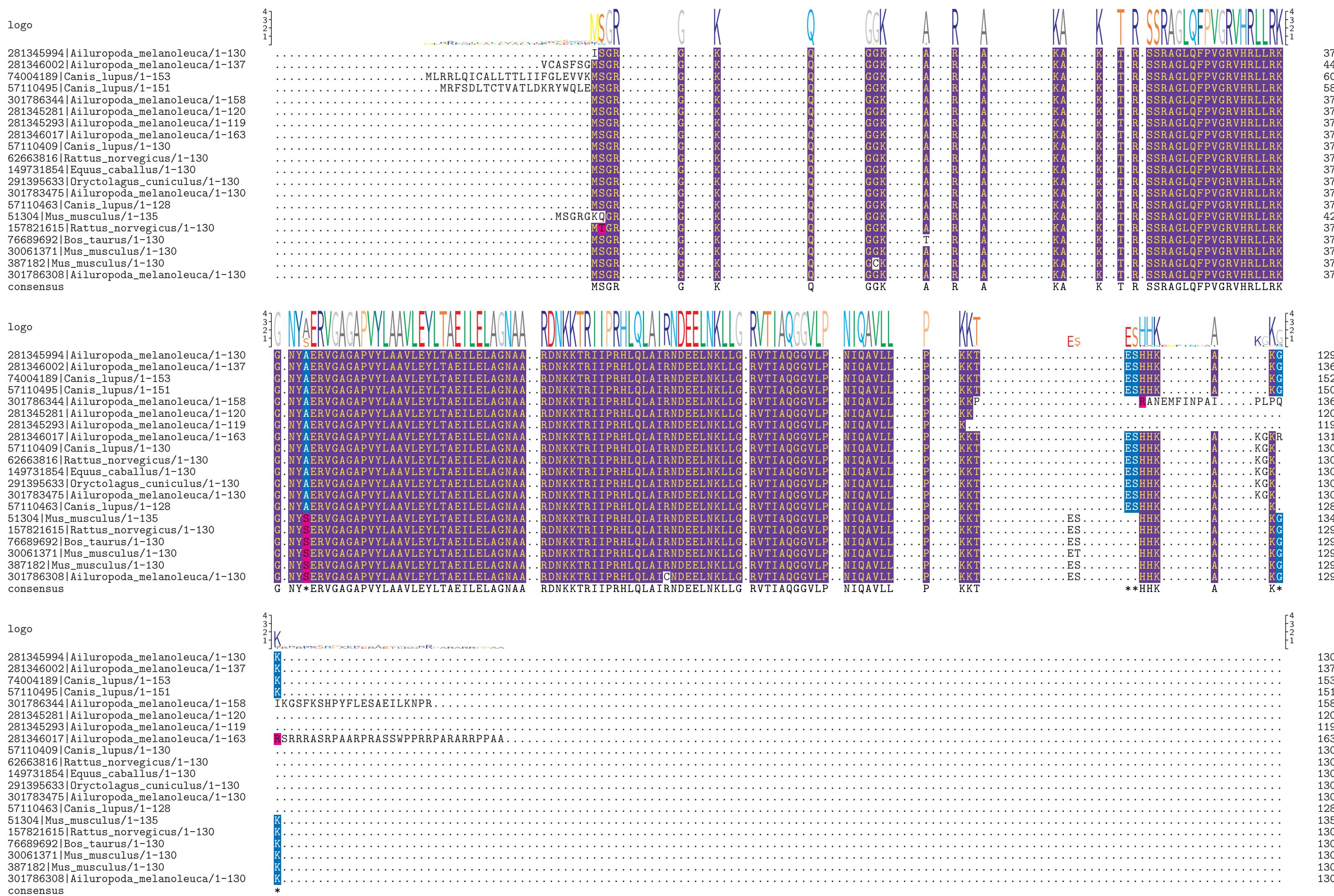
non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved

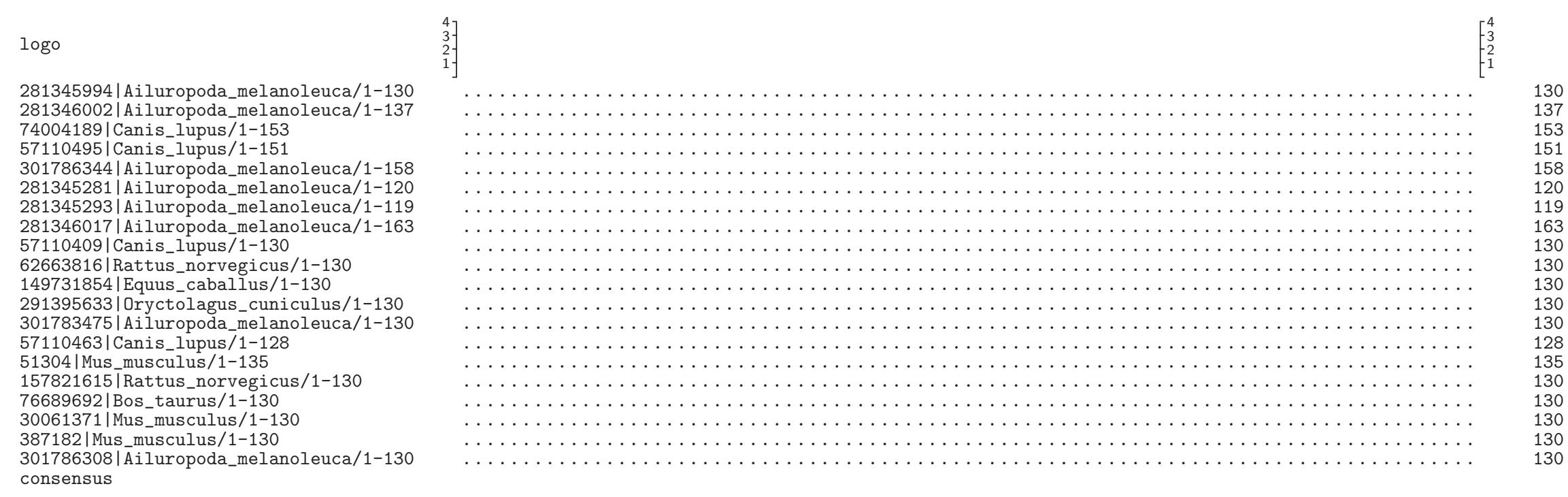


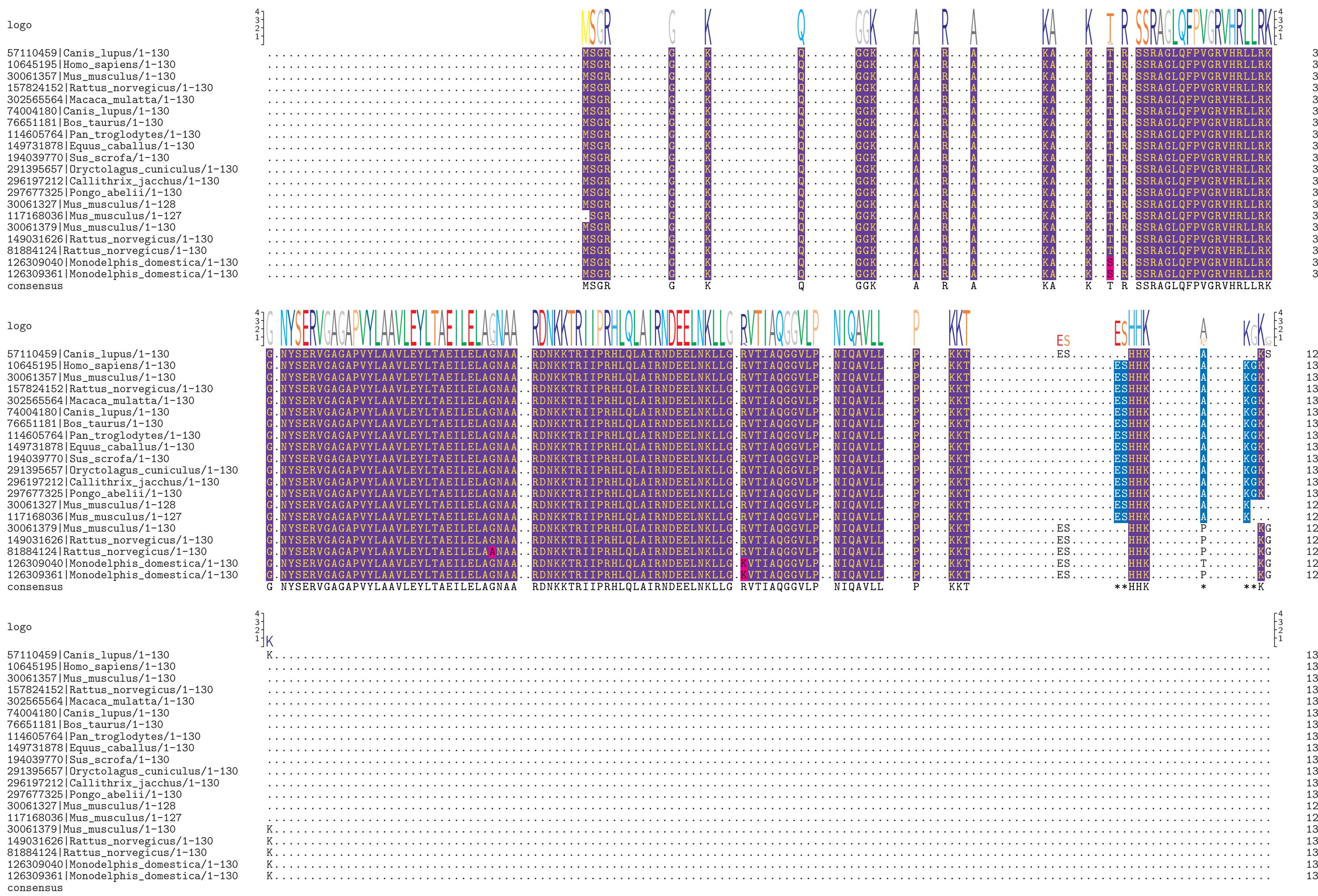


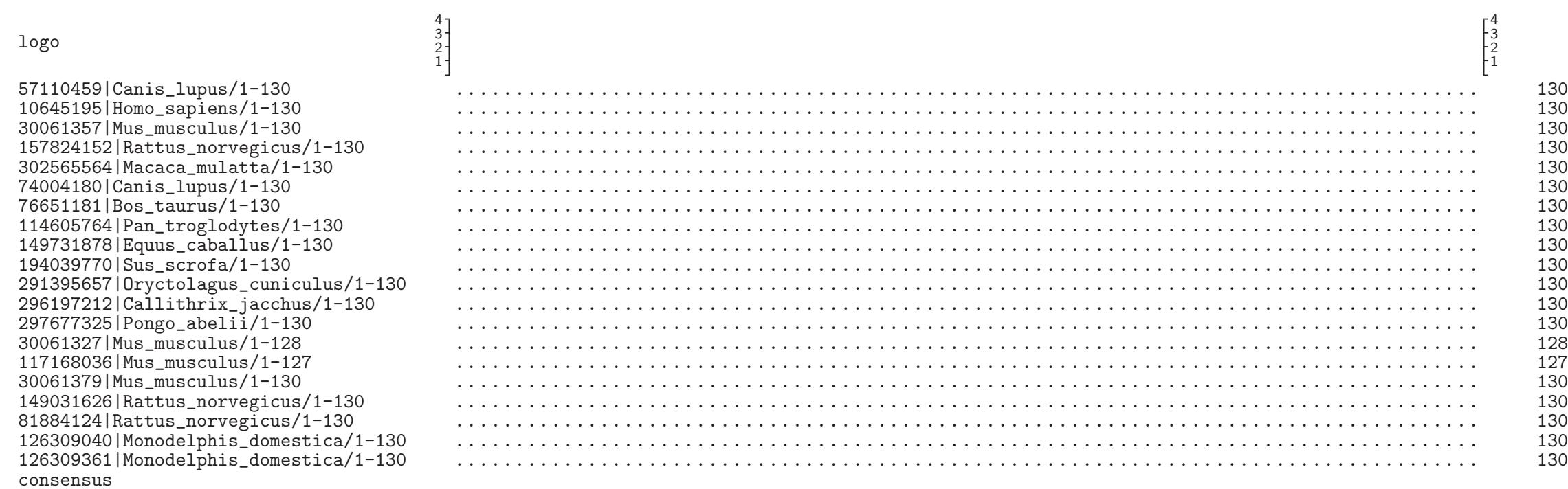




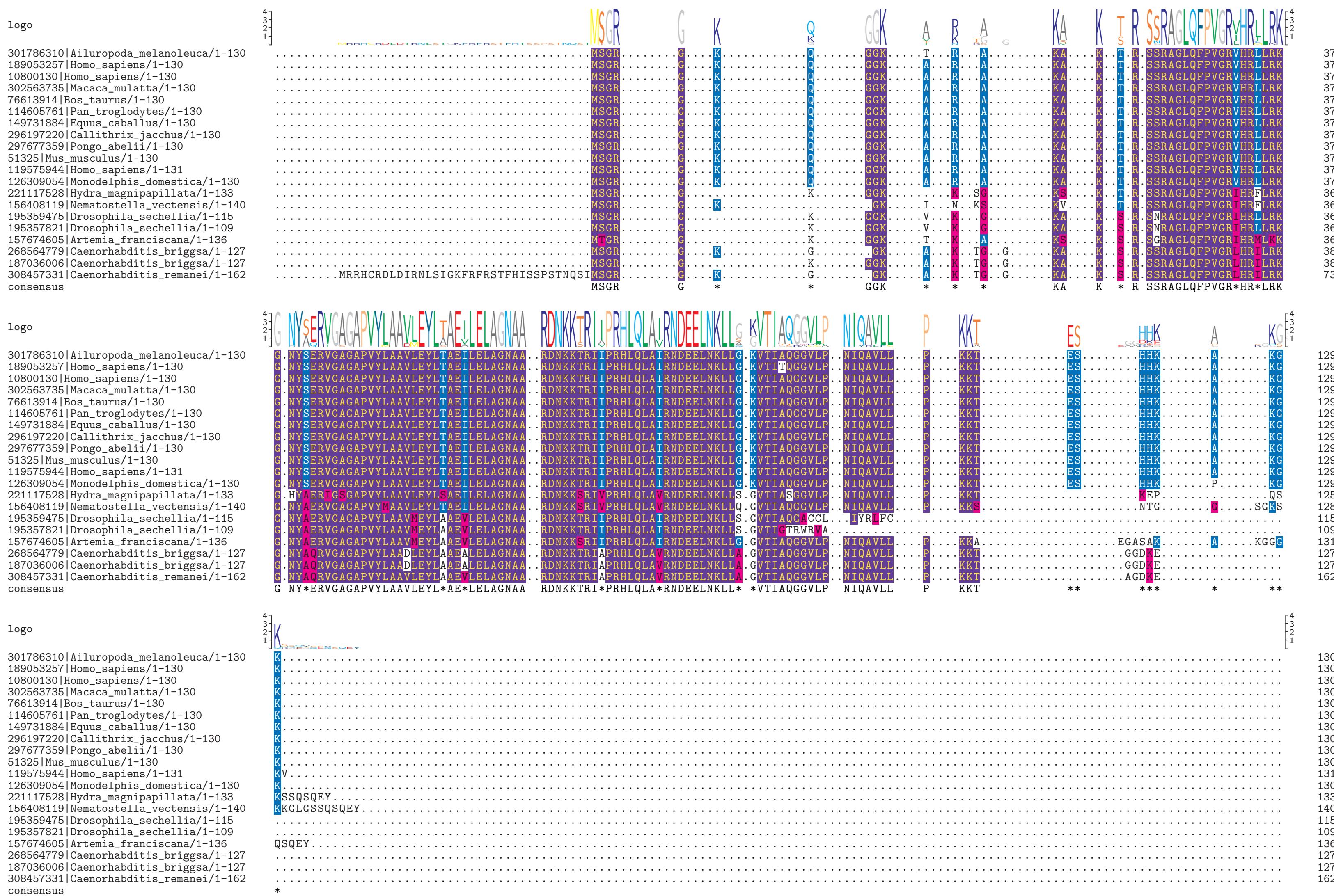


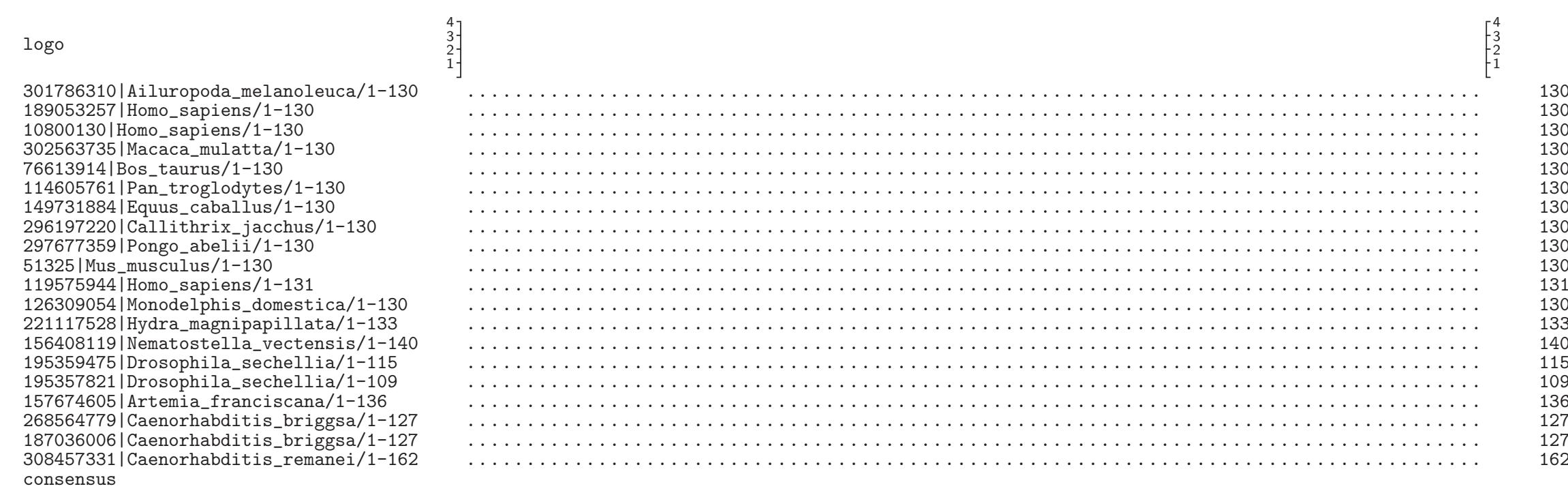




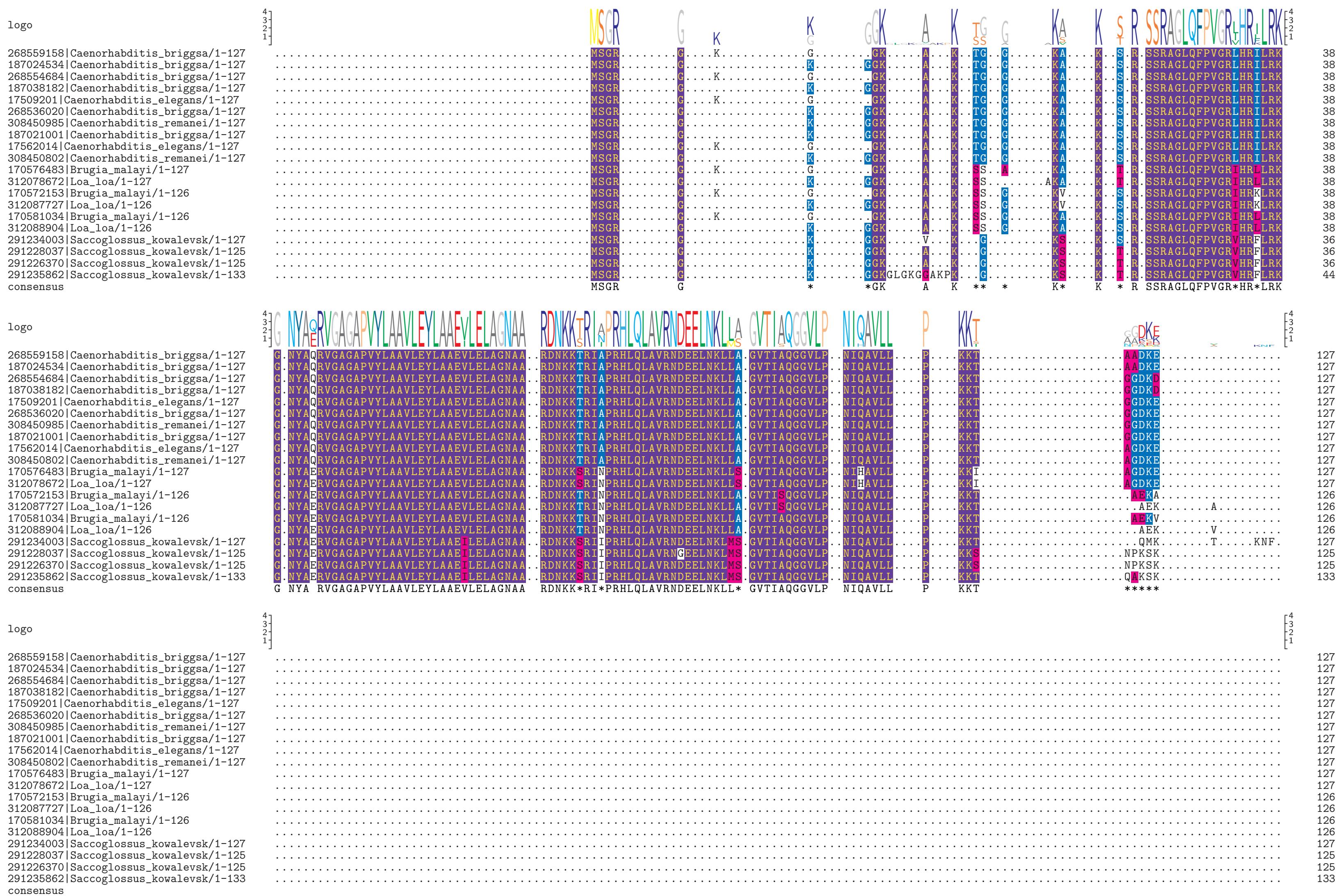


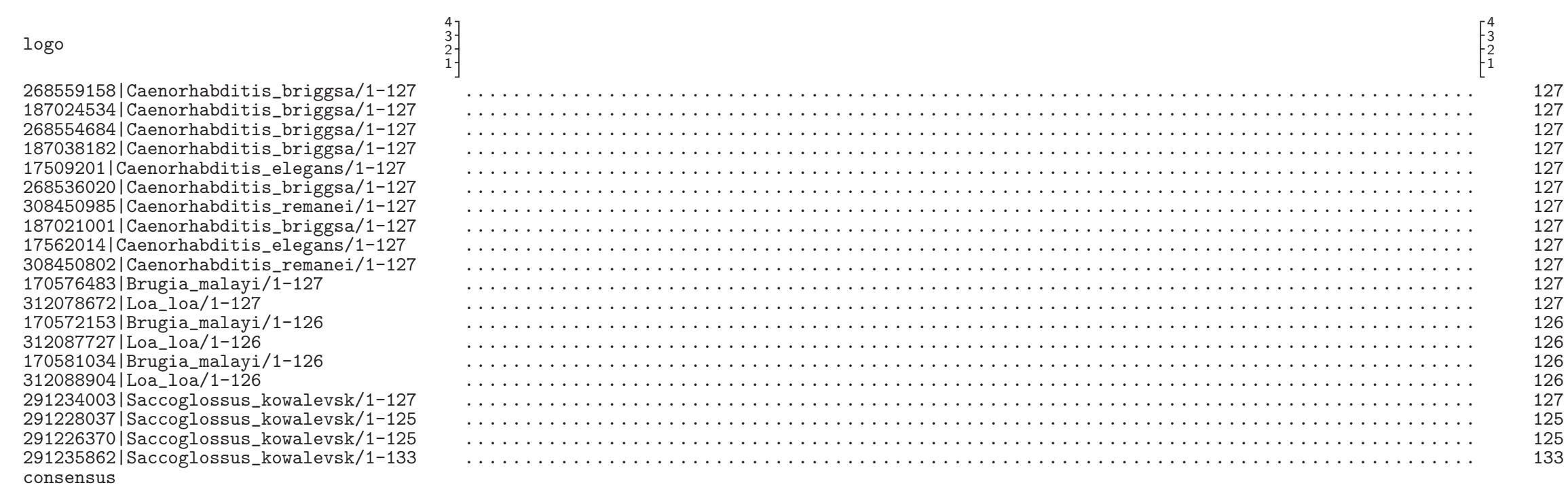
non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved



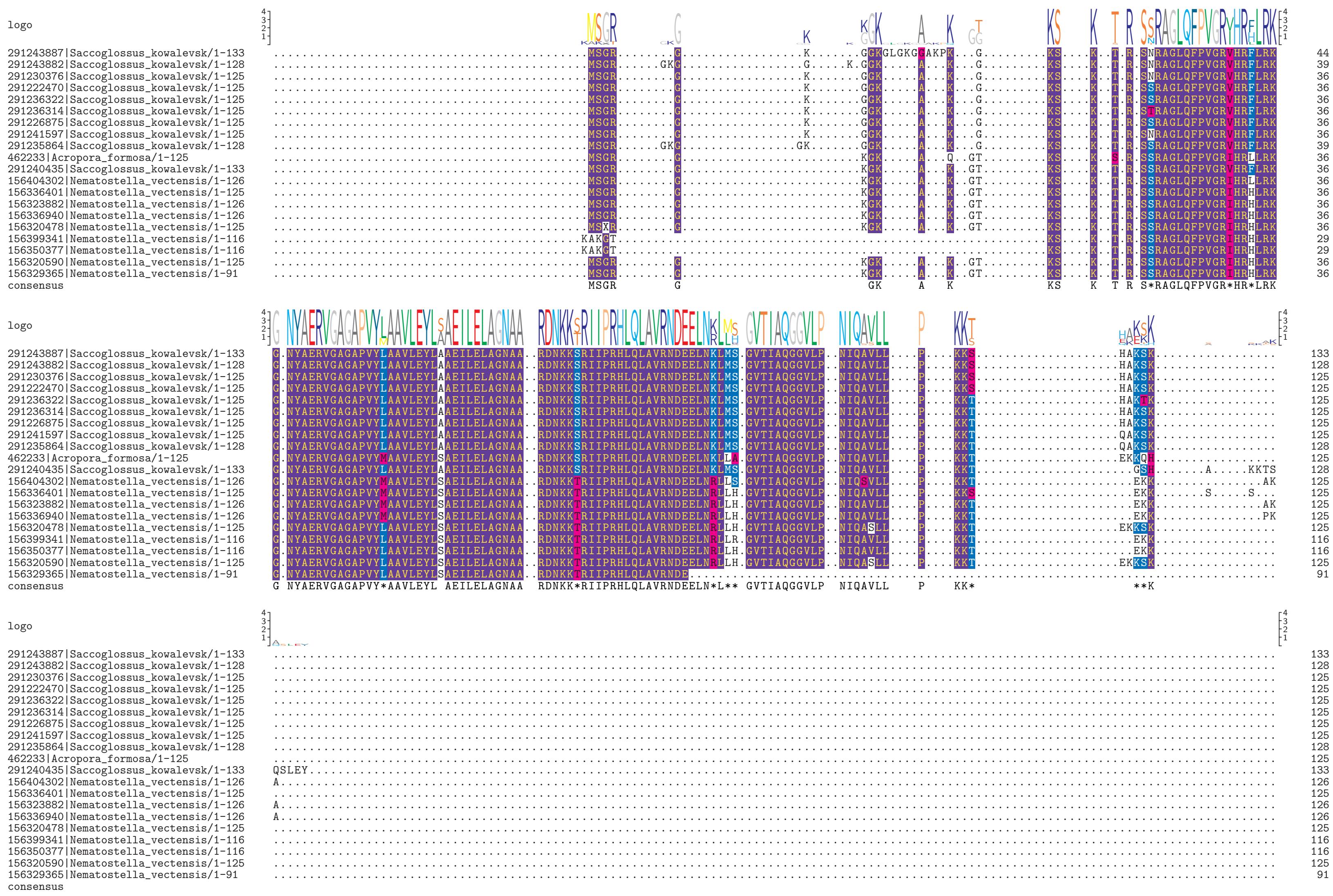


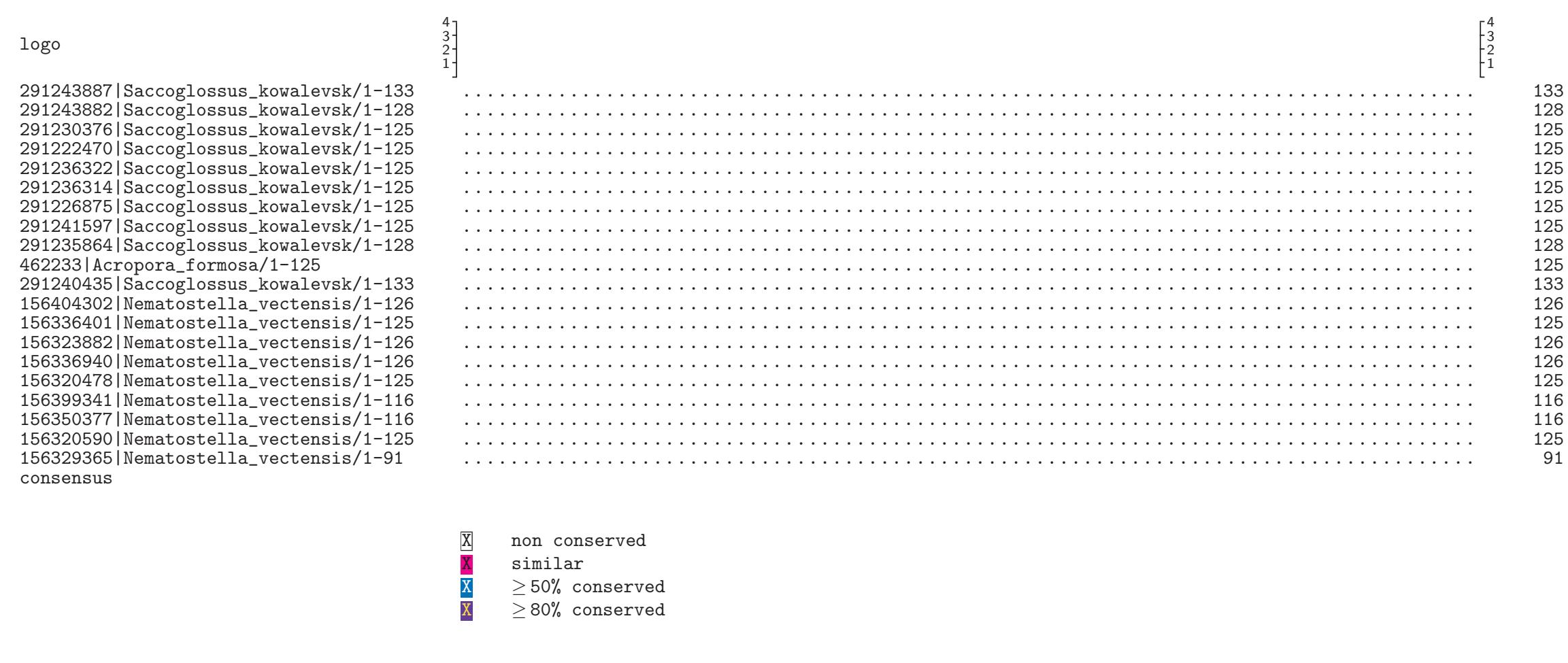
non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved

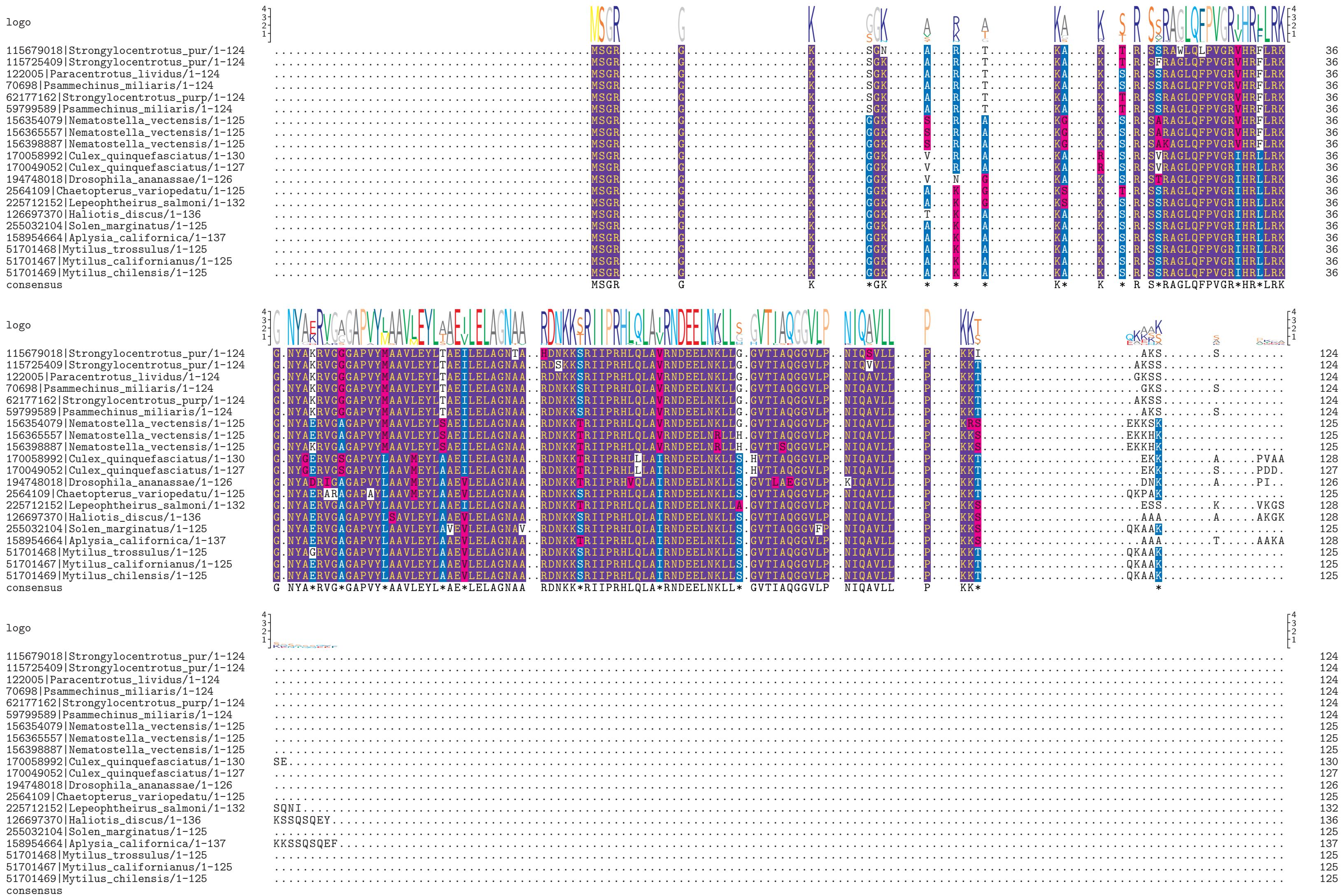


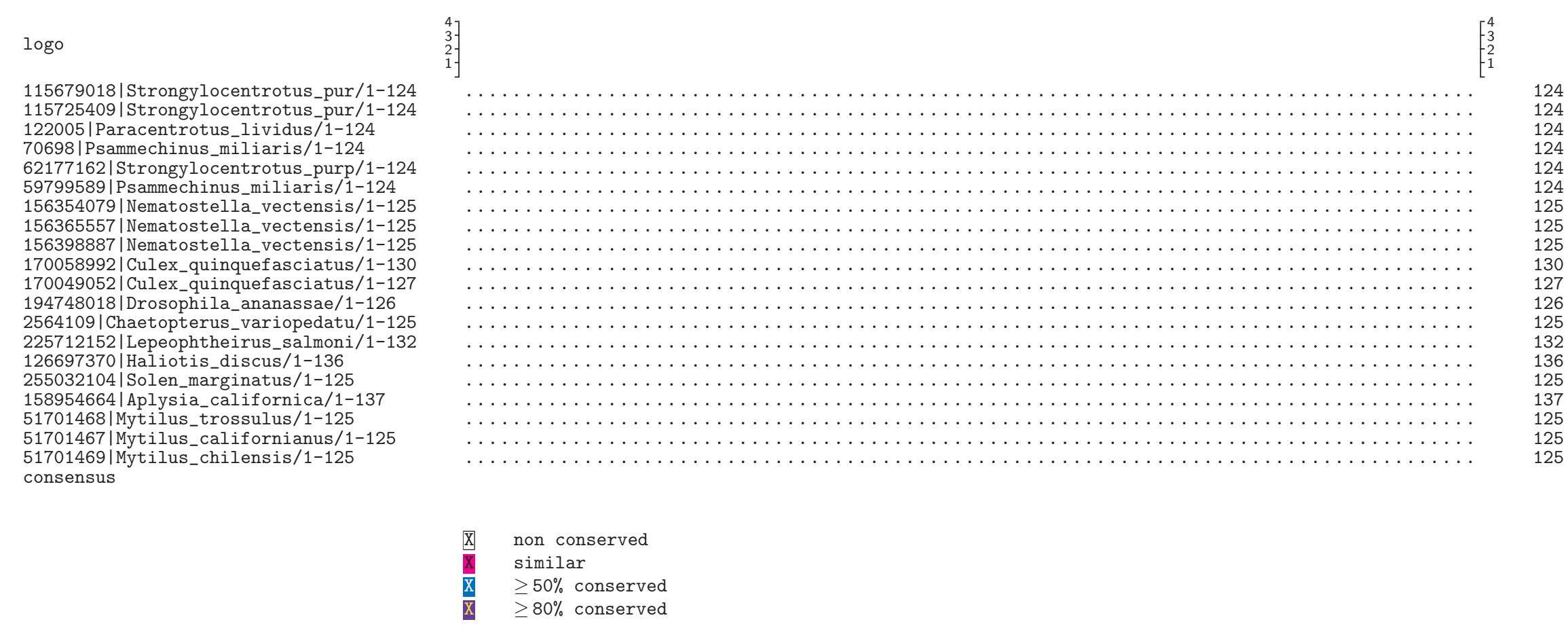


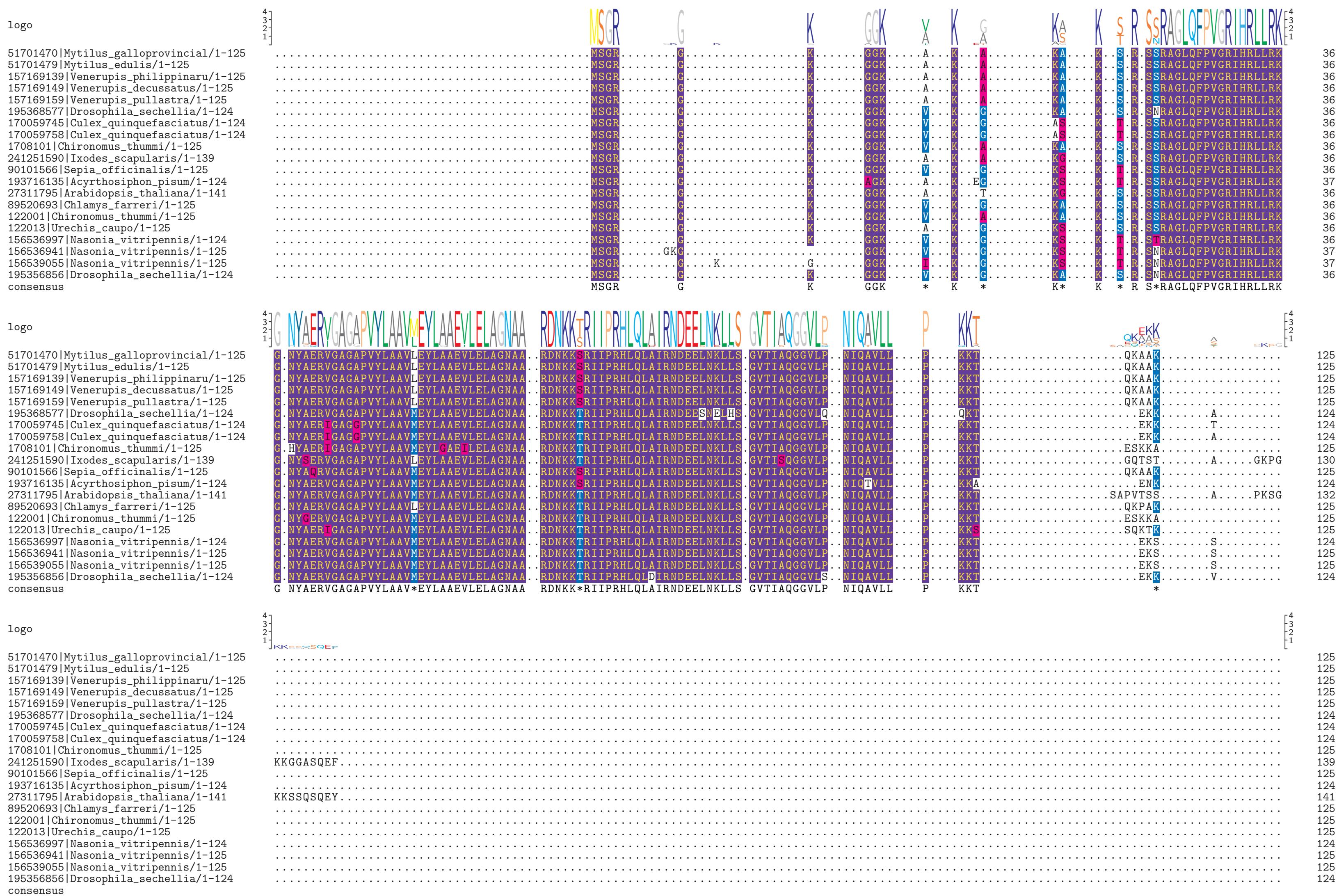
non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved





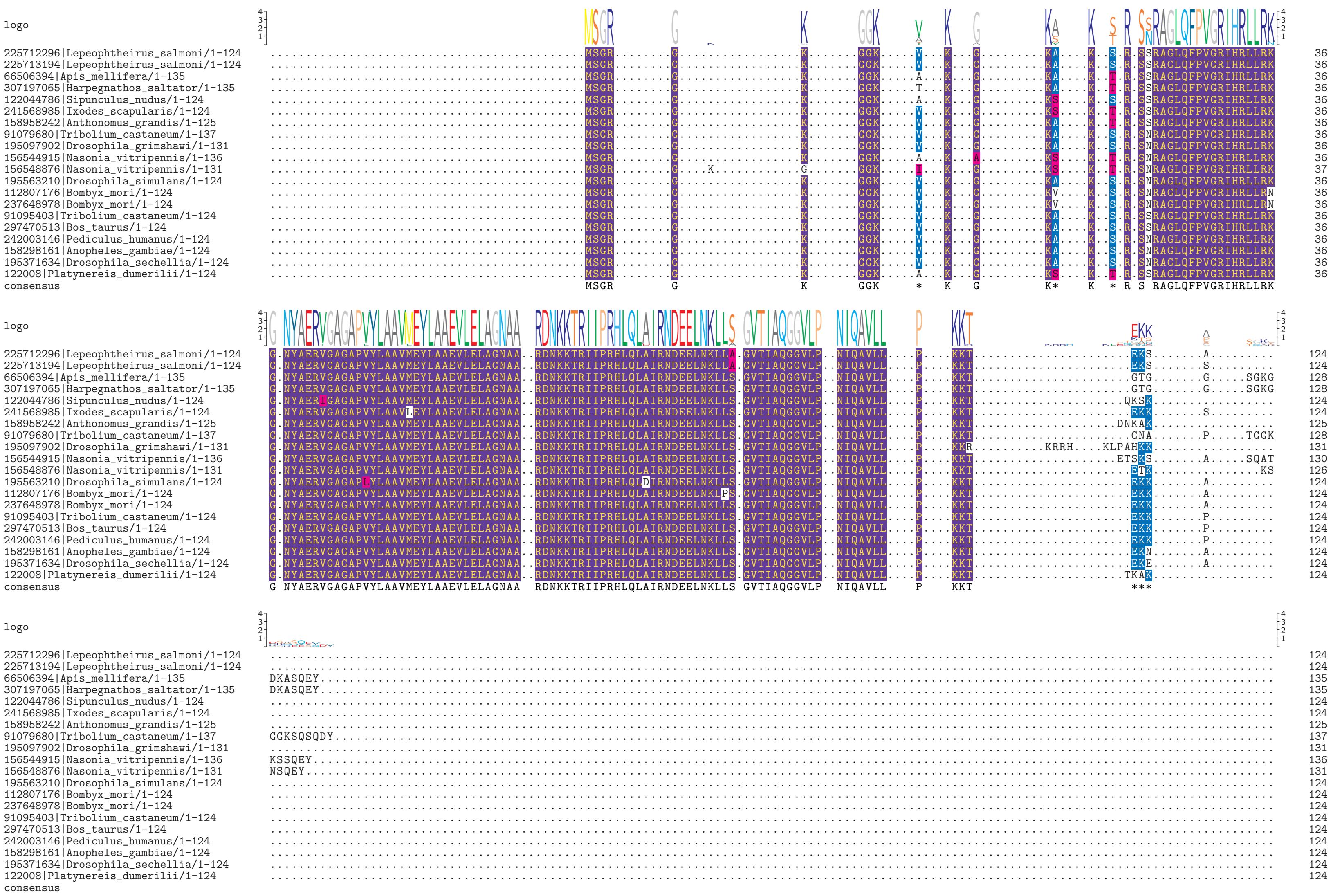


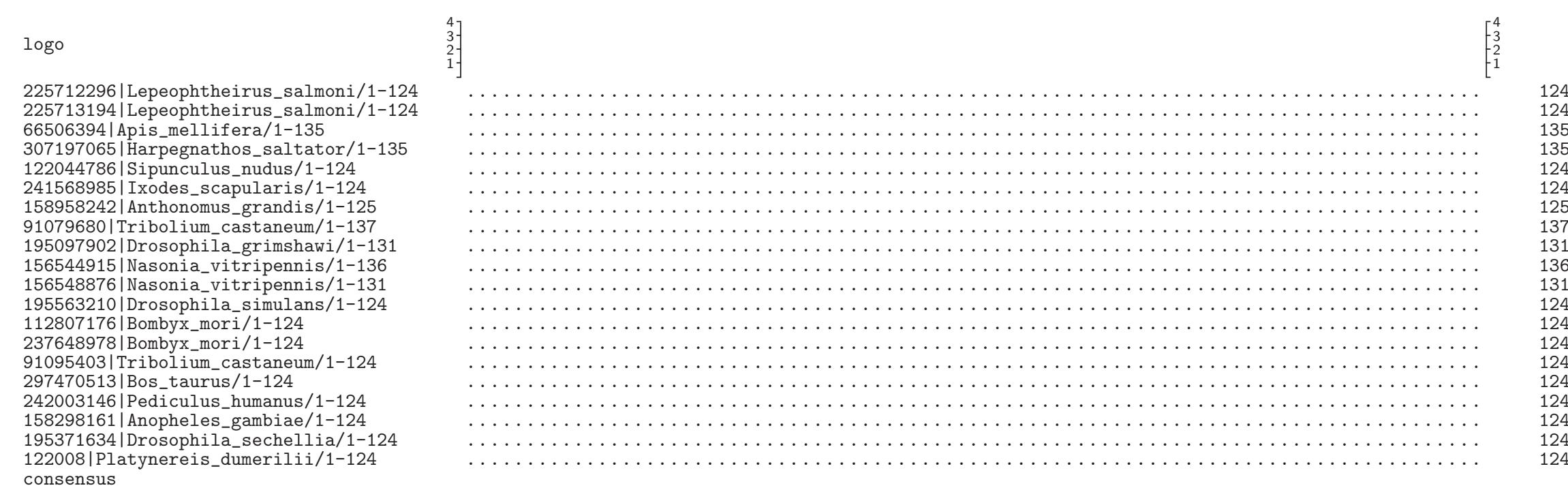




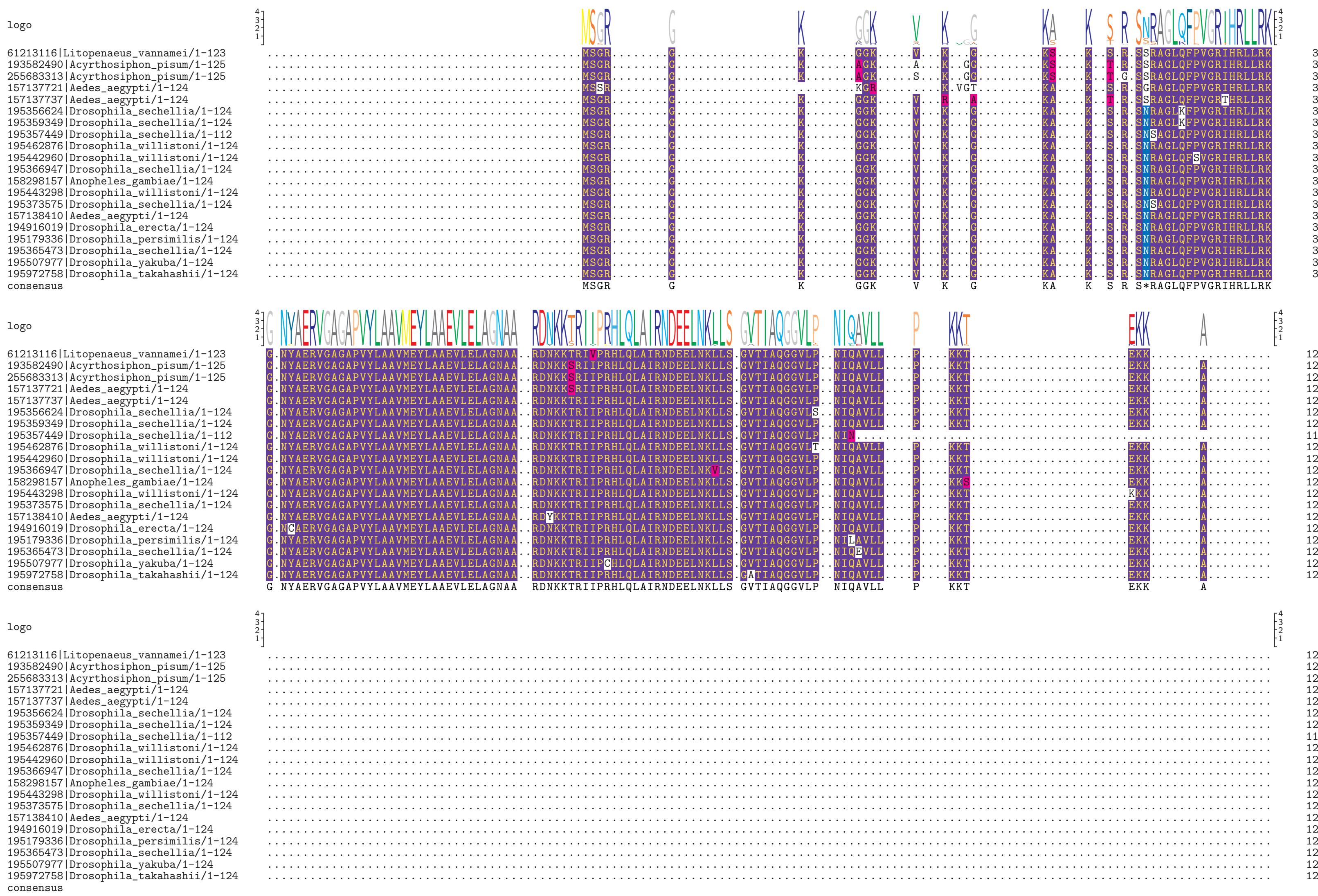
logo		4 3 2 1	4 3 2 1
51701470 Mytilus_galloprovincial/1-125	.	.	125
51701479 Mytilus_edulis/1-125	.	.	125
157169139 Venerupis_philippinaru/1-125	.	.	125
157169149 Venerupis_decuussatus/1-125	.	.	125
157169159 Venerupis_pullastra/1-125	.	.	125
195363877 Drosophila_sechellia/1-124	.	.	124
170059745 Culex_quinquefasciatus/1-124	.	.	124
170059758 Culex_quinquefasciatus/1-124	.	.	124
1708101 Chironomus_thummi/1-125	.	.	125
241251590 Ixodes_scapularis/1-139	.	.	139
90101566 Sepia_officinalis/1-125	.	.	125
193716135 Acyrthosiphon_pisum/1-124	.	.	124
273117951 Arabidopsis_thaliana/1-141	.	.	141
89520693 Chlamys_farreri/1-125	.	.	125
122001 Chironomus_thummi/1-125	.	.	125
122013 Urechis_caupo/1-125	.	.	125
156536997 Nasonia_vitripennis/1-124	.	.	124
156536941 Nasonia_vitripennis/1-125	.	.	125
156539055 Nasonia_vitripennis/1-125	.	.	125
195356856 Drosophila_sechellia/1-124	.	.	124
consensus	.	.	.

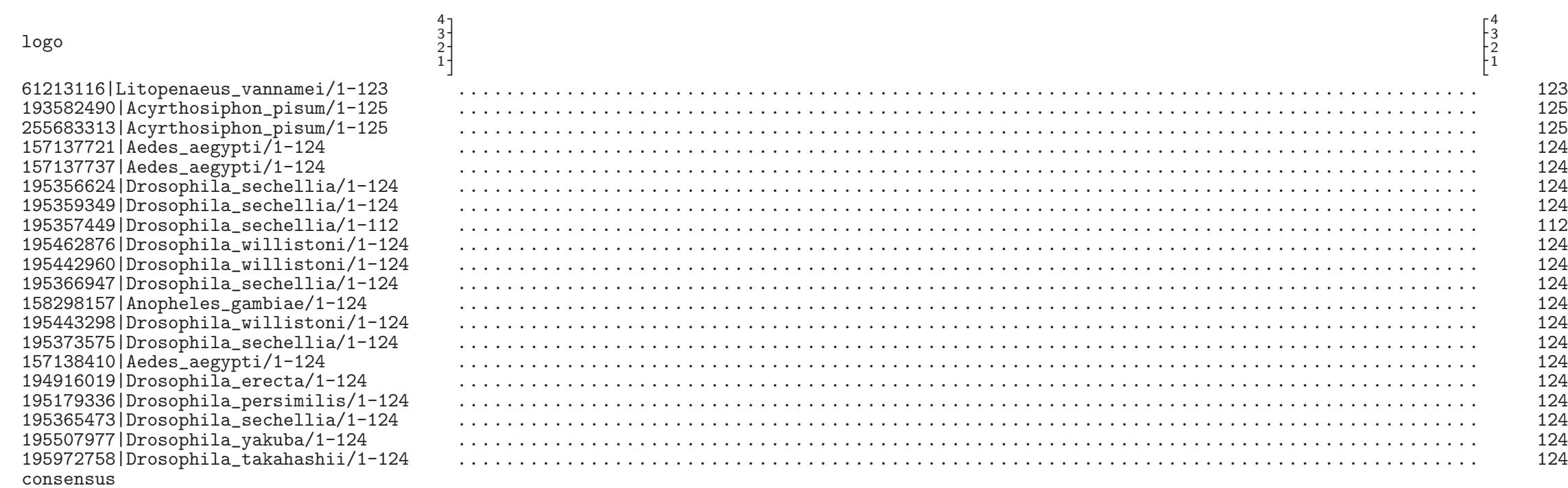
non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved

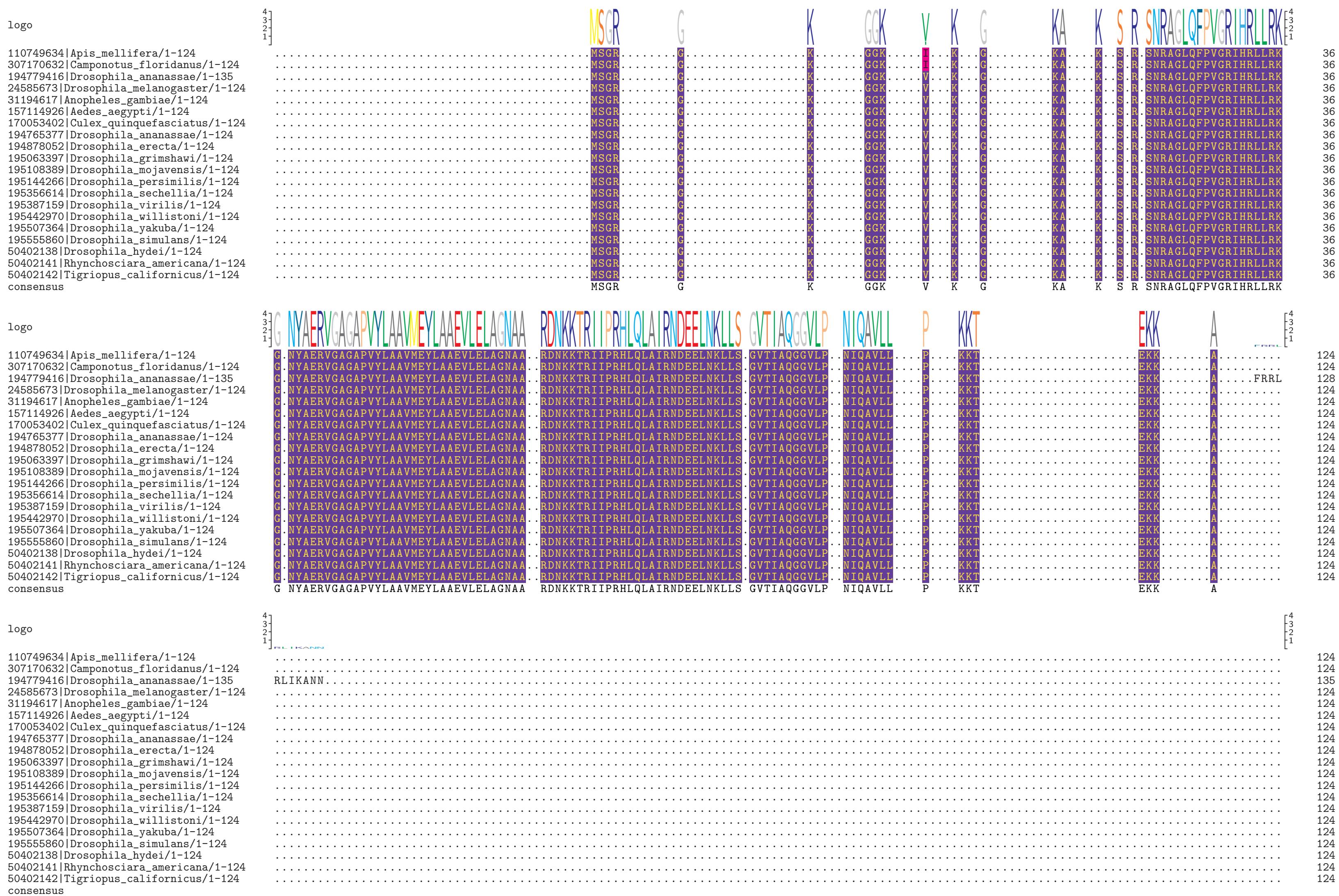


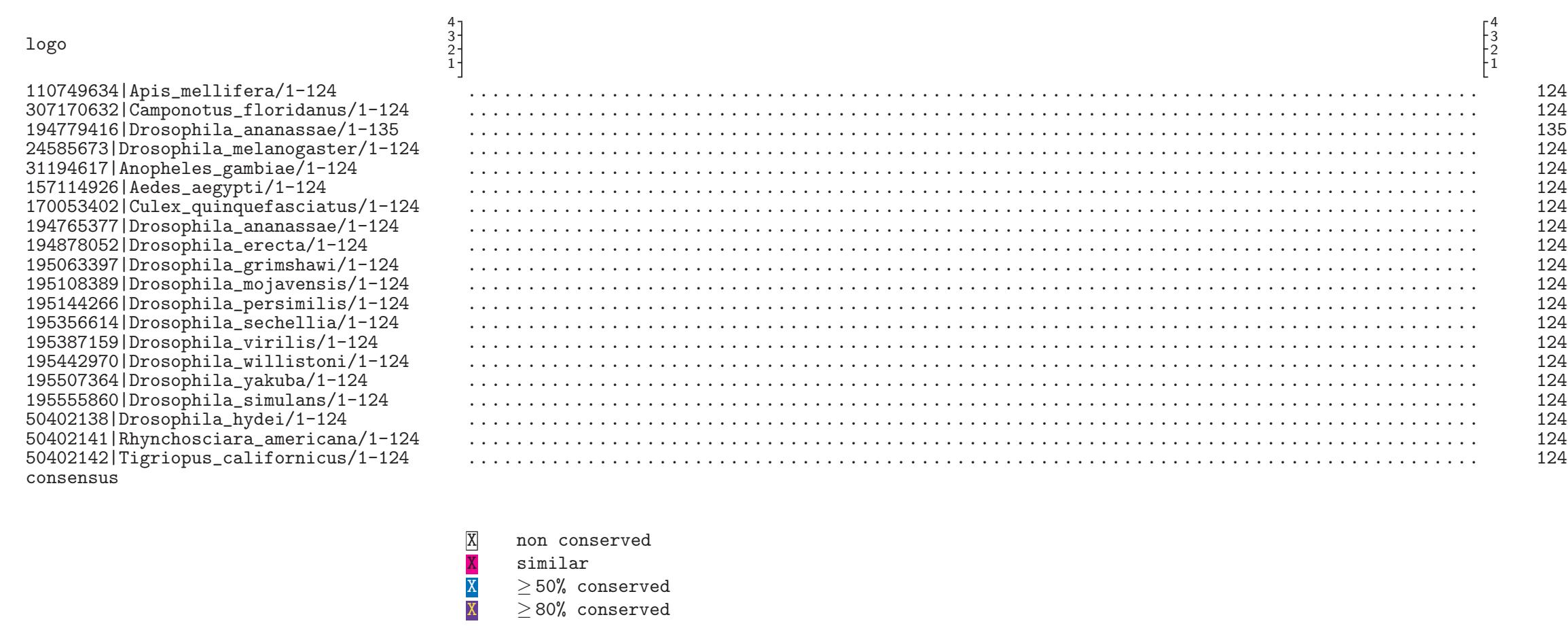


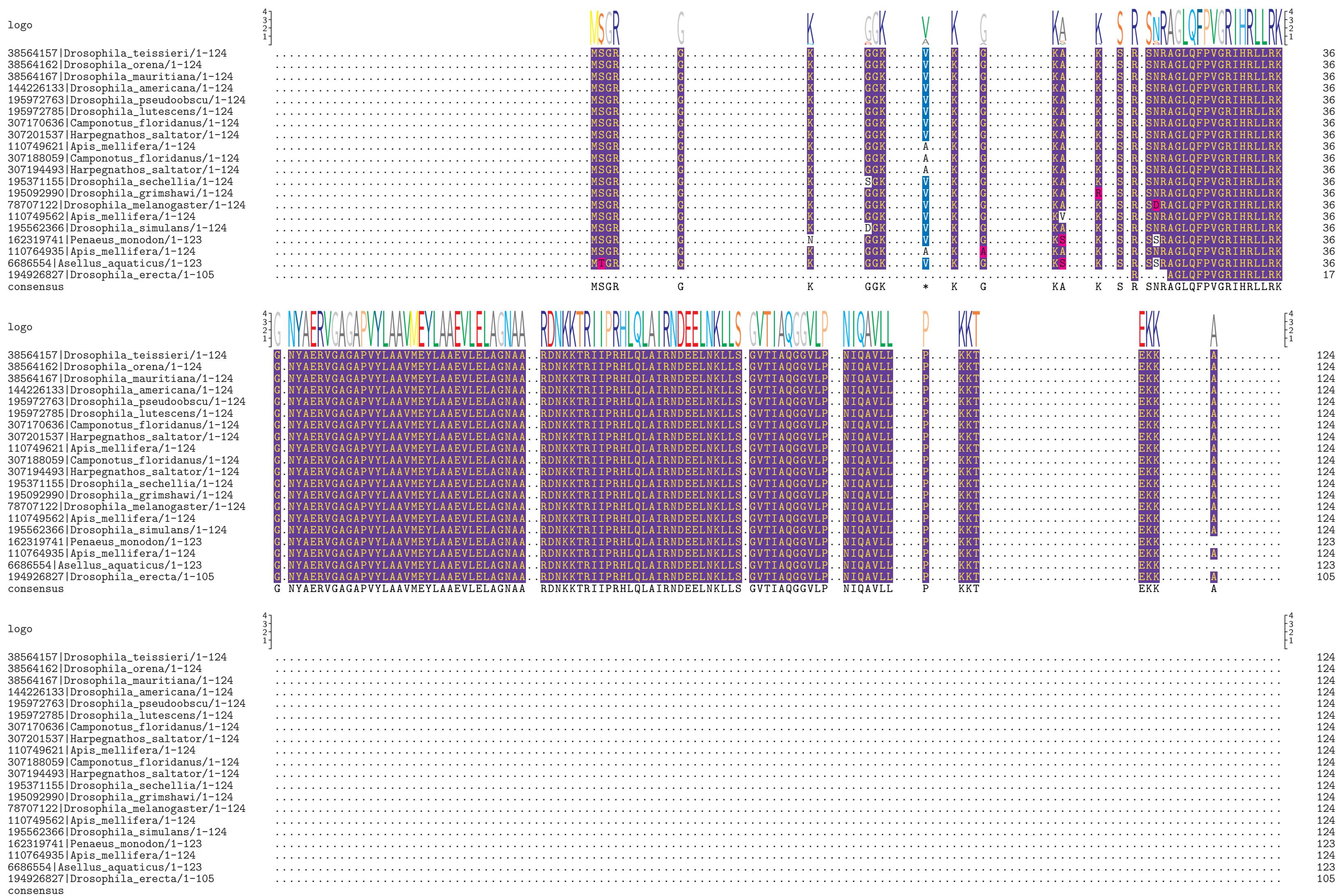
non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved

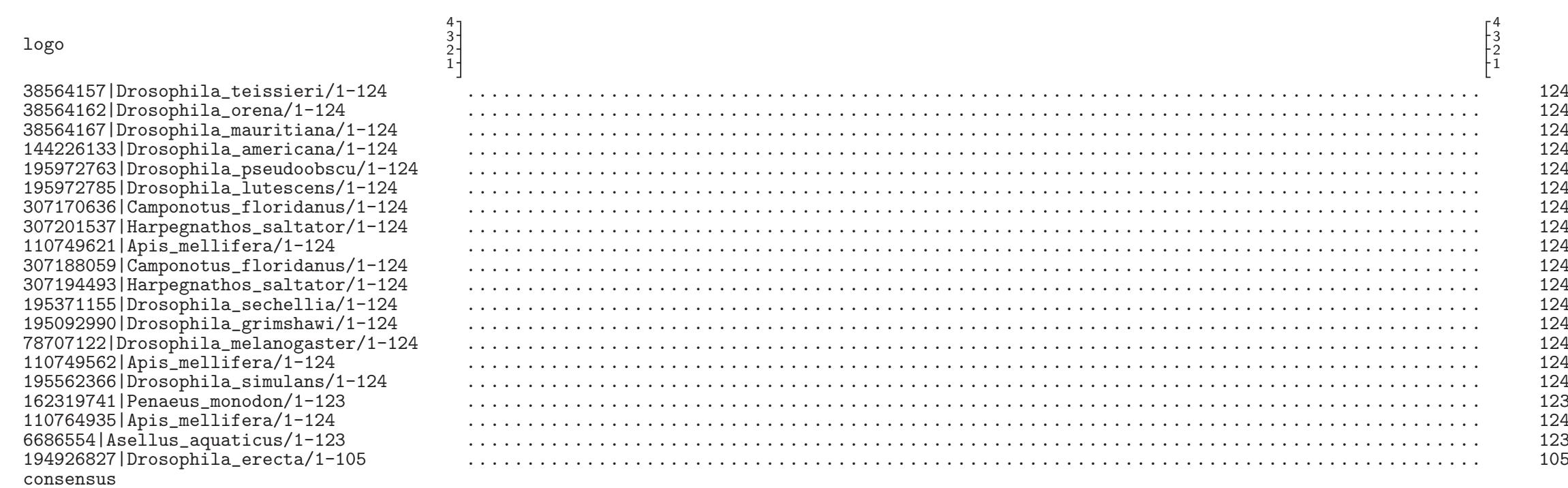




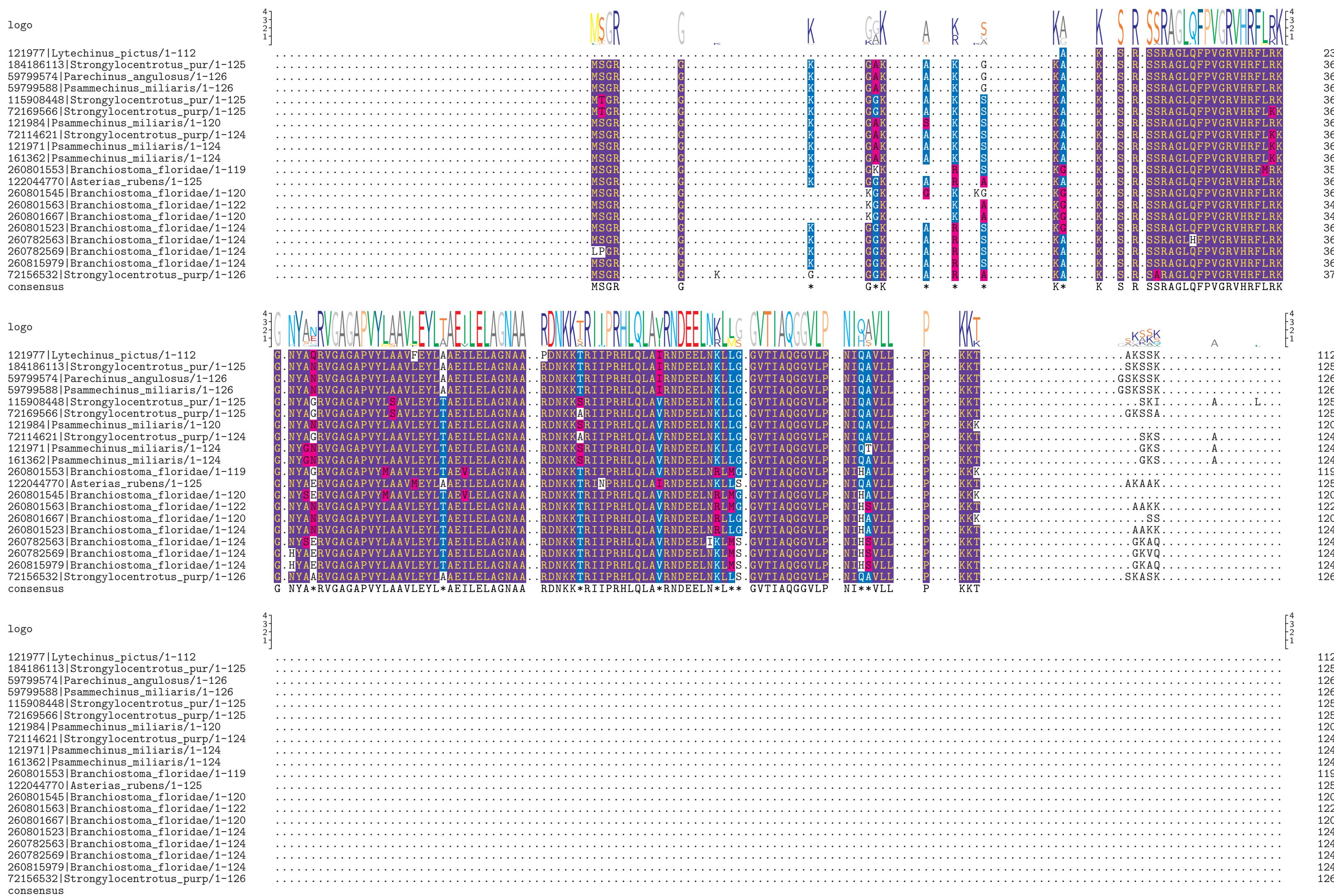


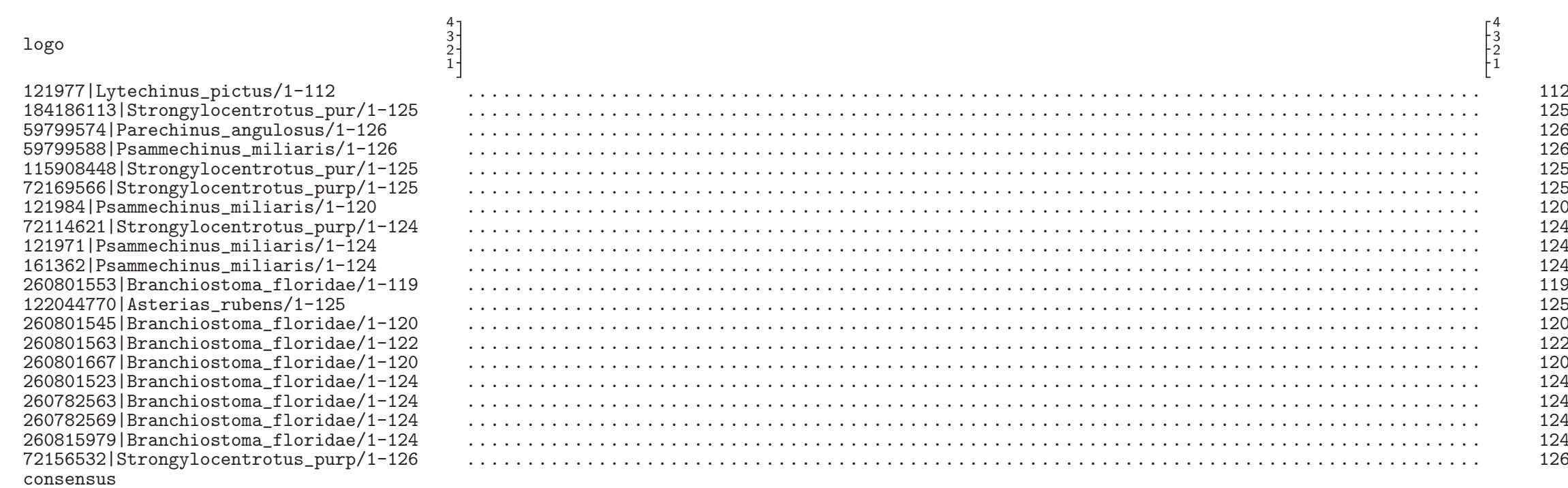






non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved





non conserved  
 similar  
 ≥ 50% conserved  
 ≥ 80% conserved

