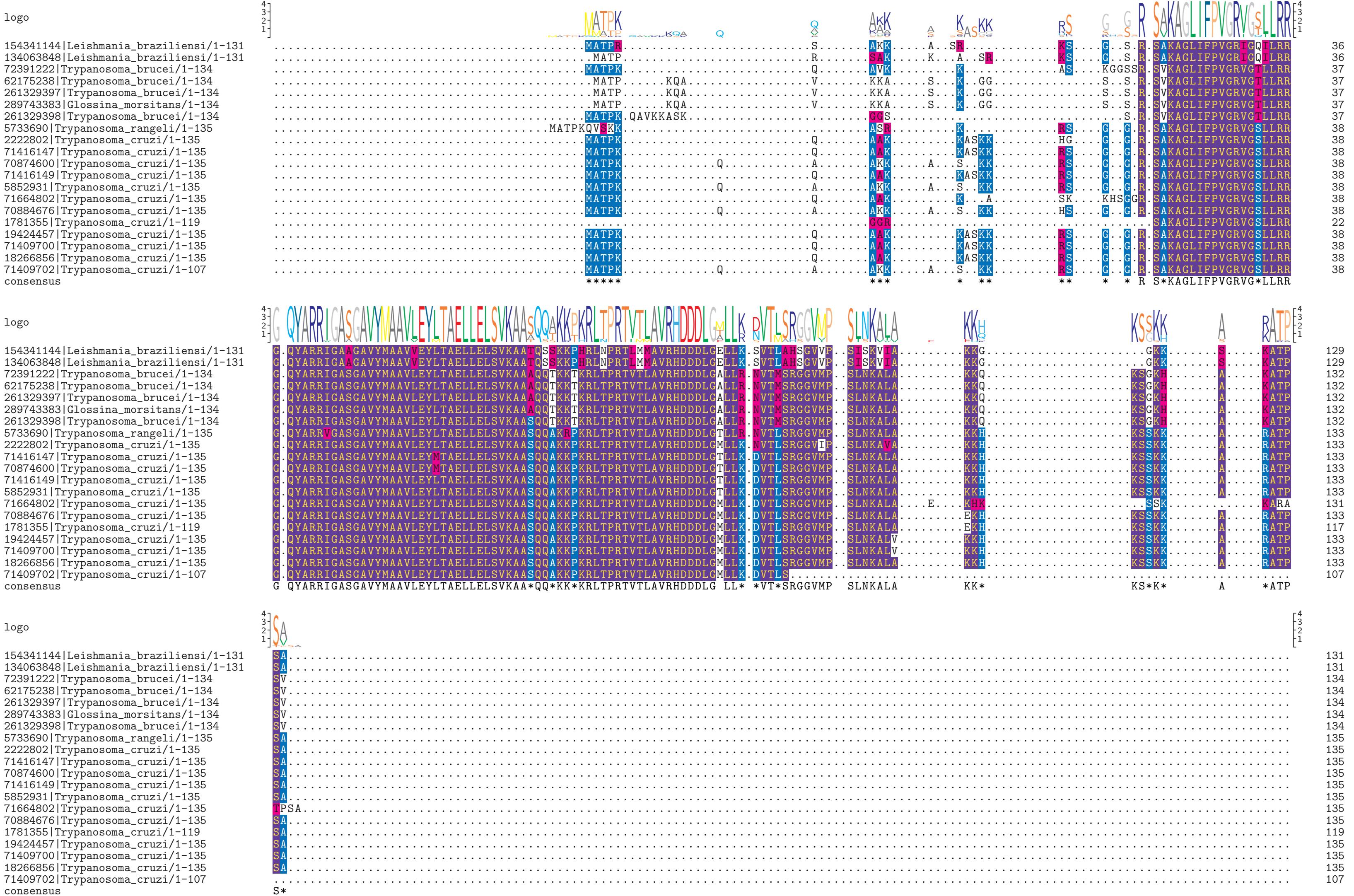
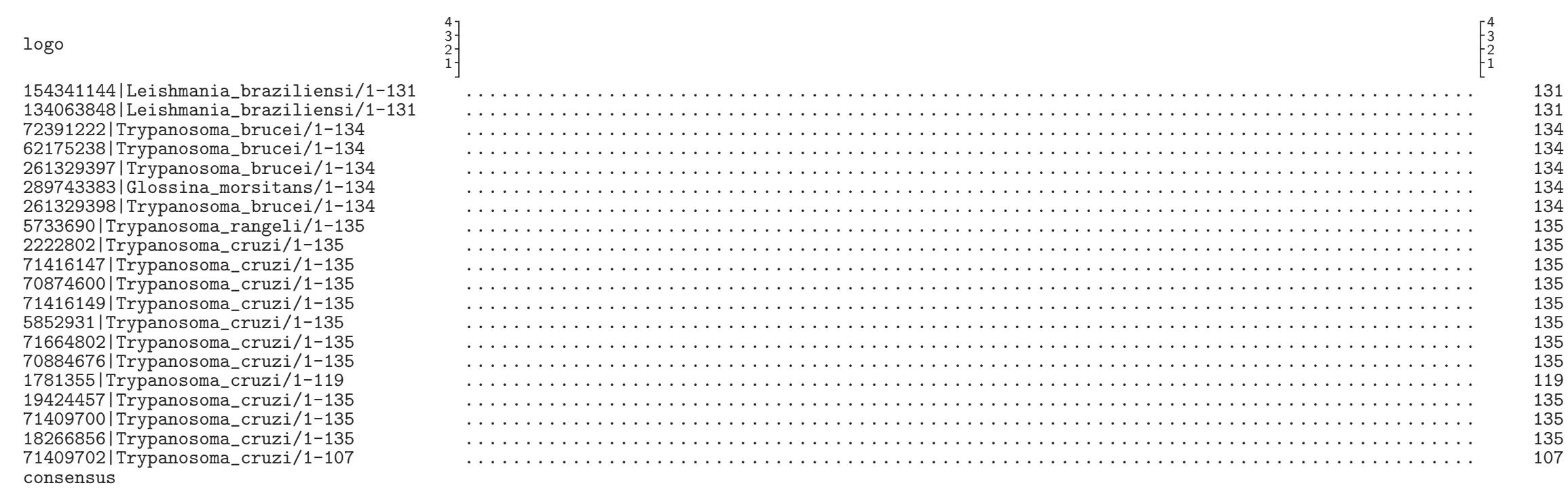
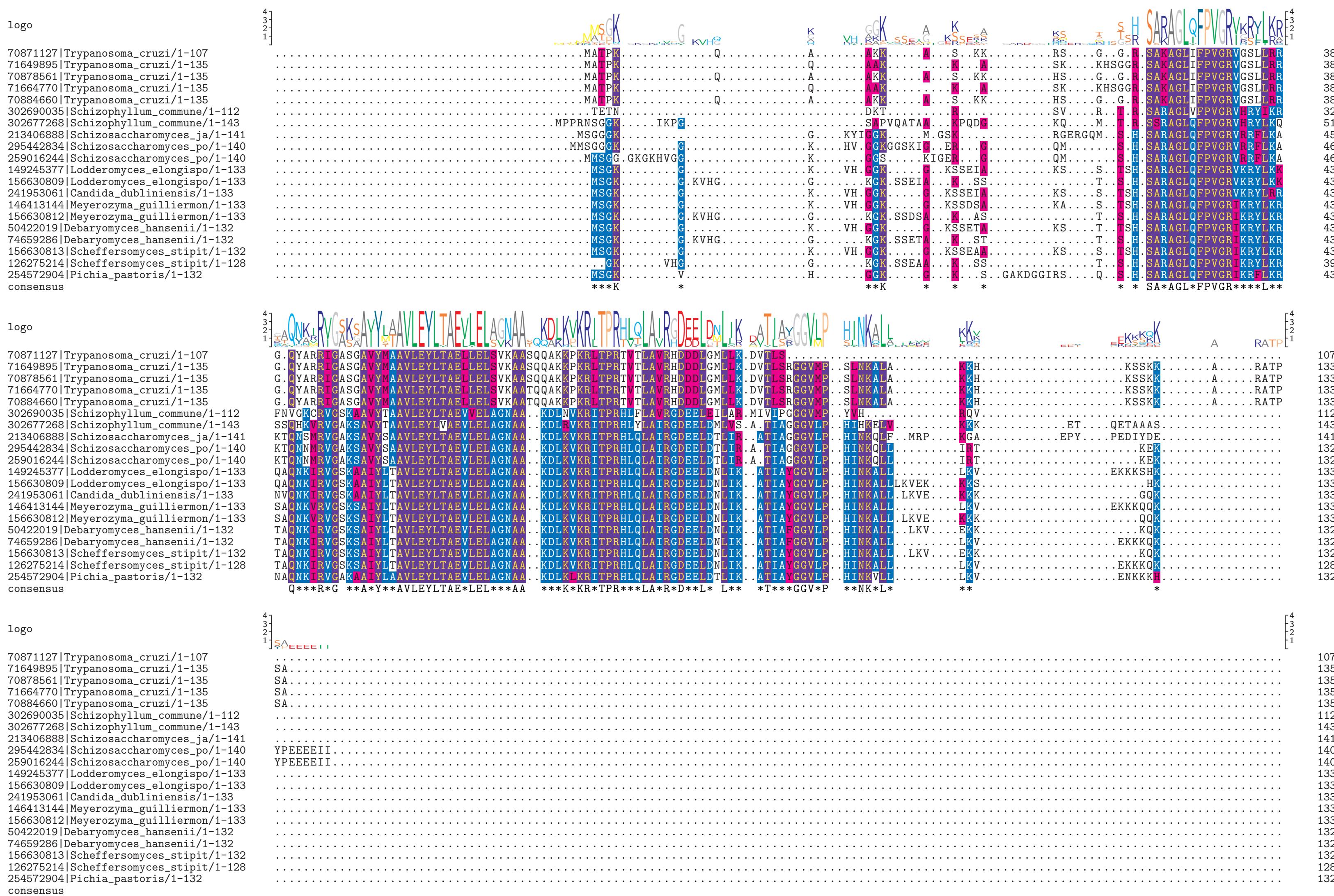


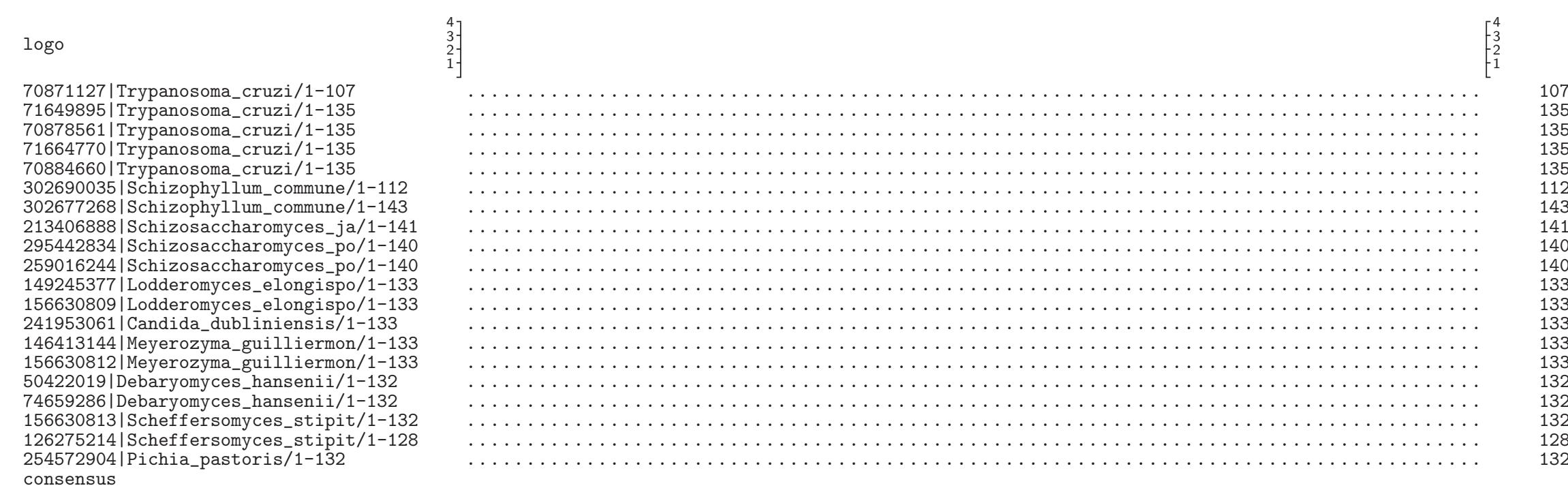
H2A.fasta

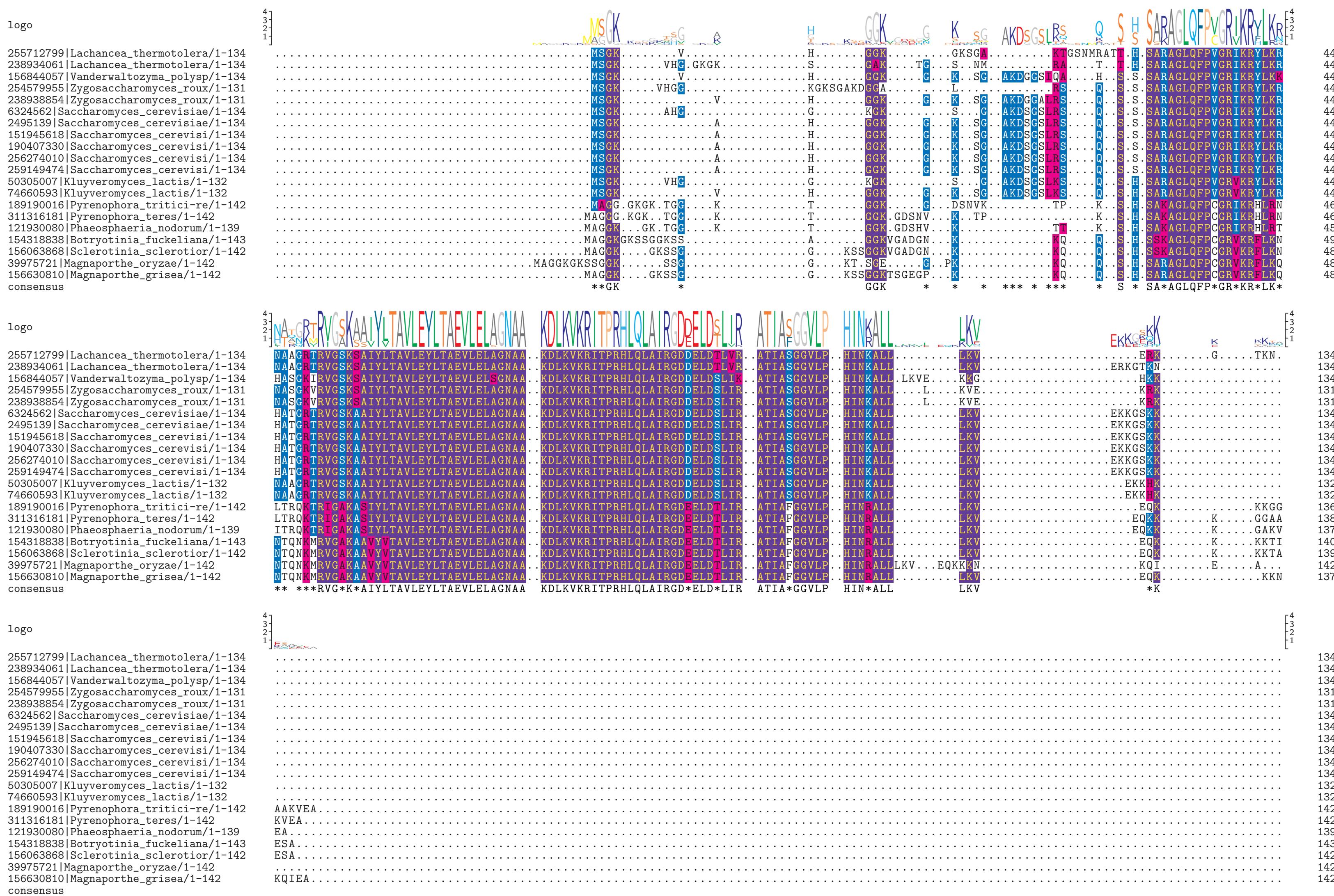


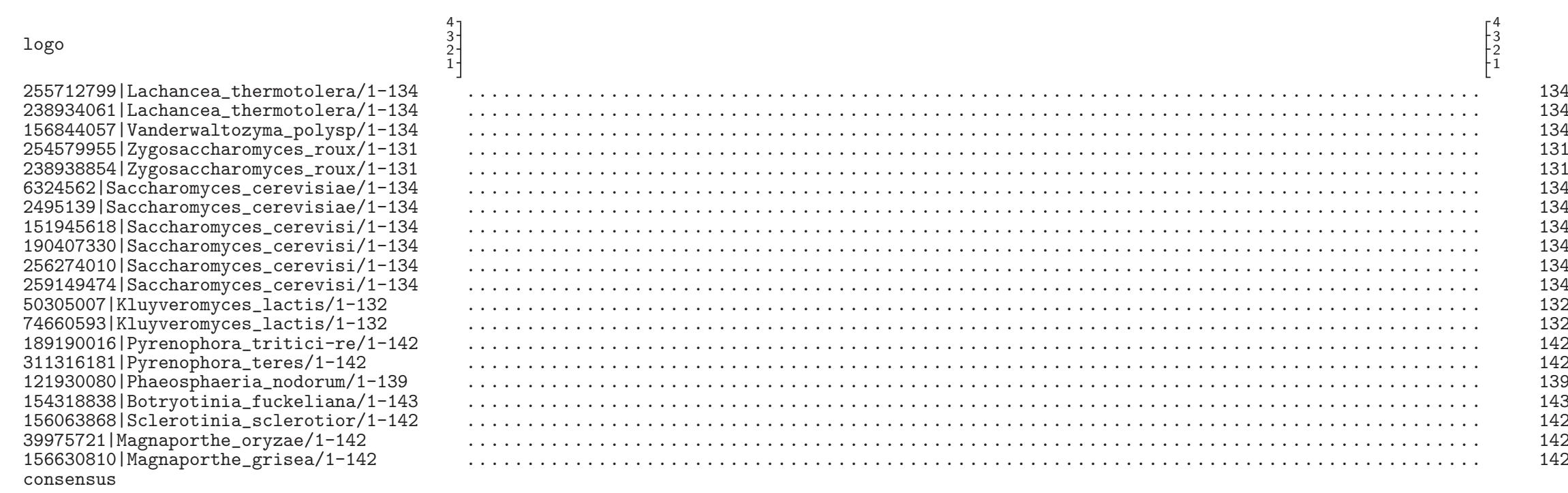


non conserved
 similar
 ≥ 50% conserved
 ≥ 80% conserved

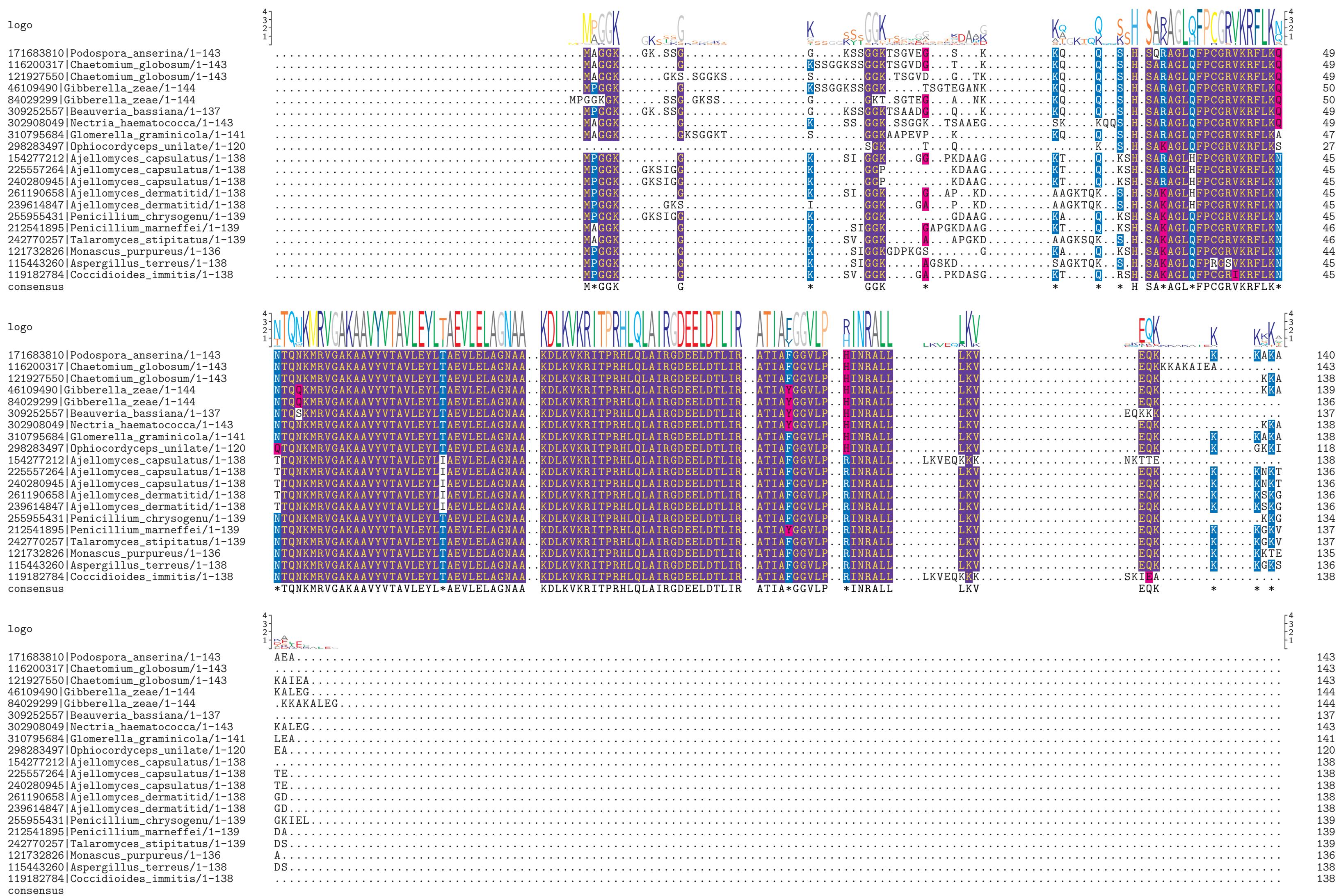


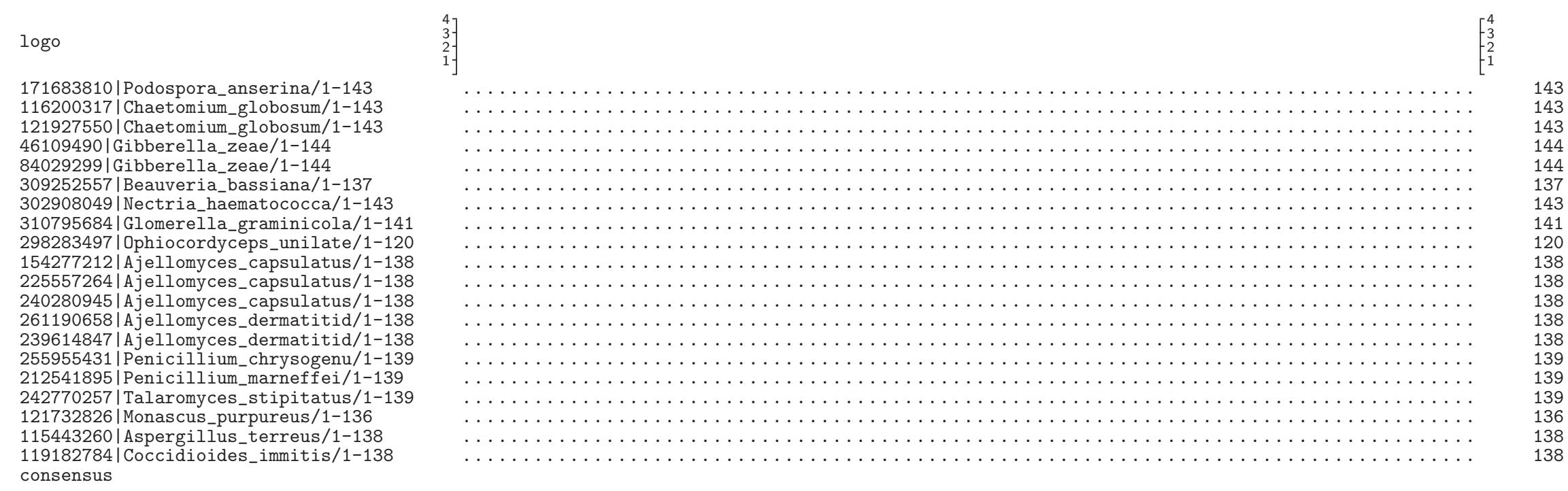




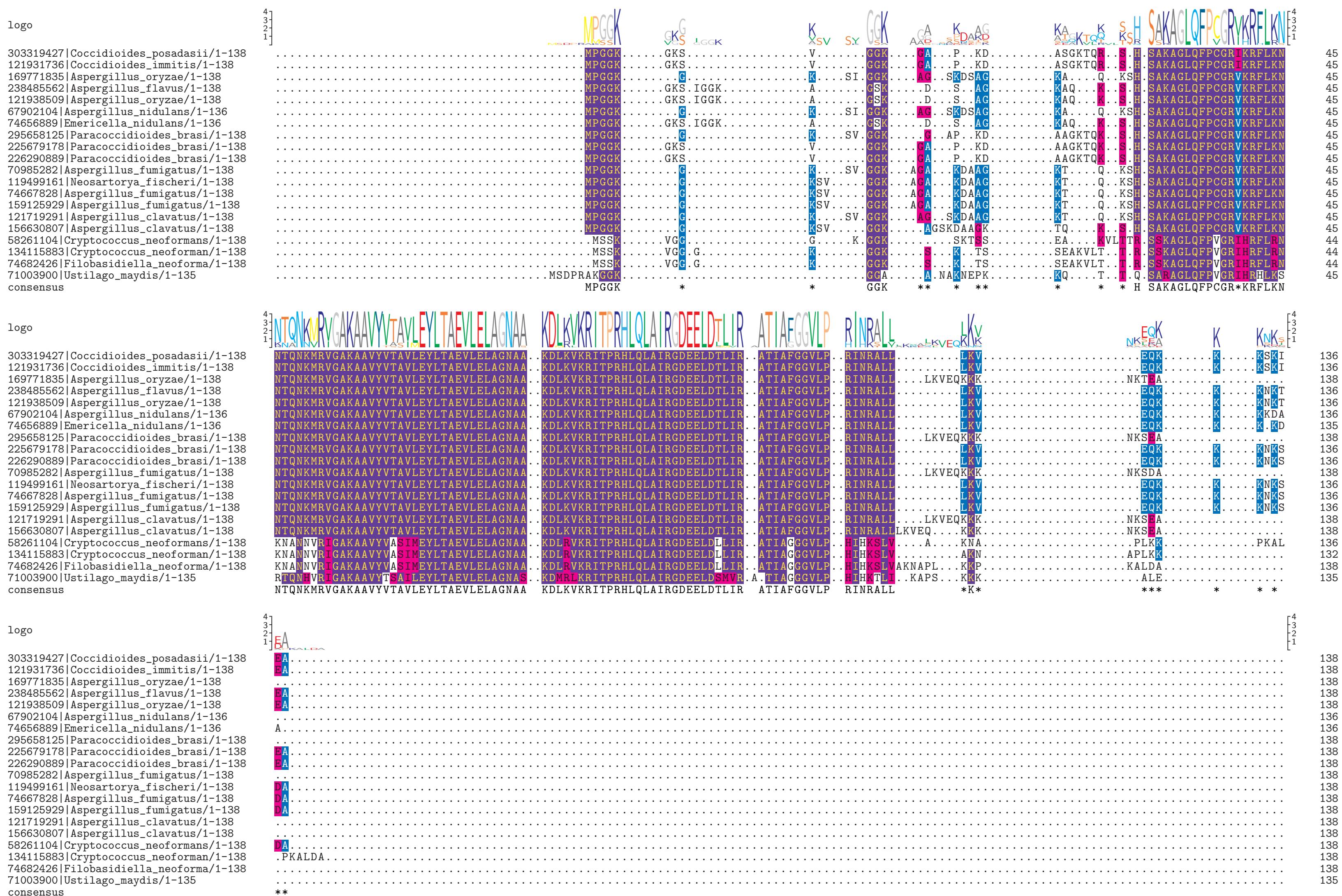


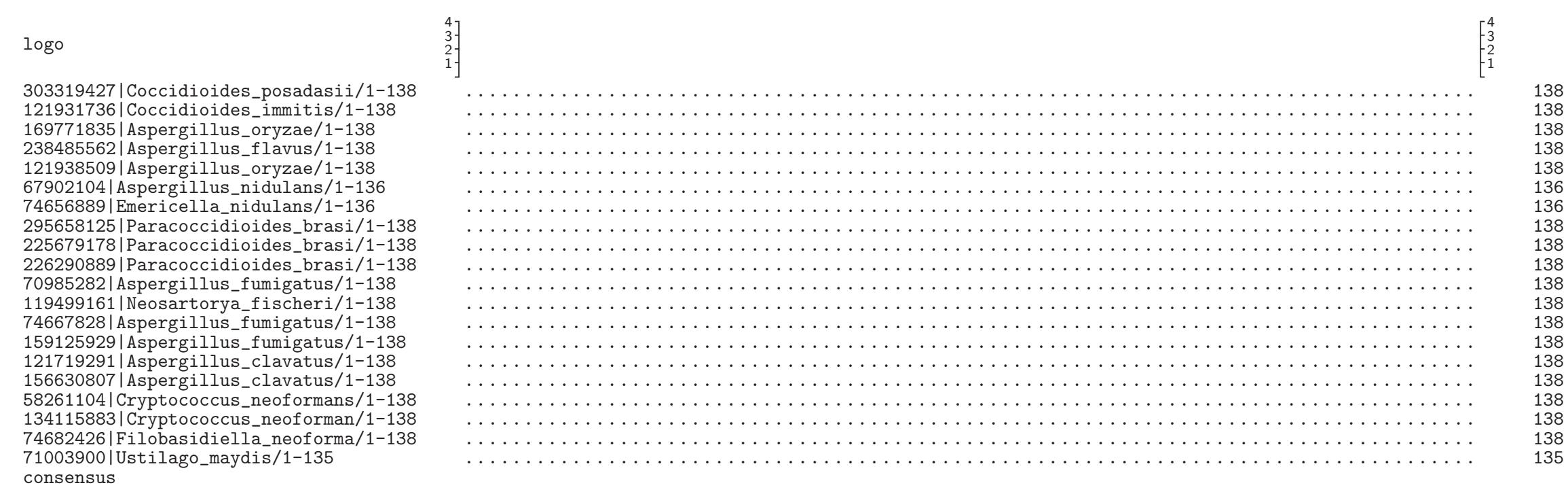
█ non conserved
 █ similar
 █ ≥ 50% conserved
 █ ≥ 80% conserved



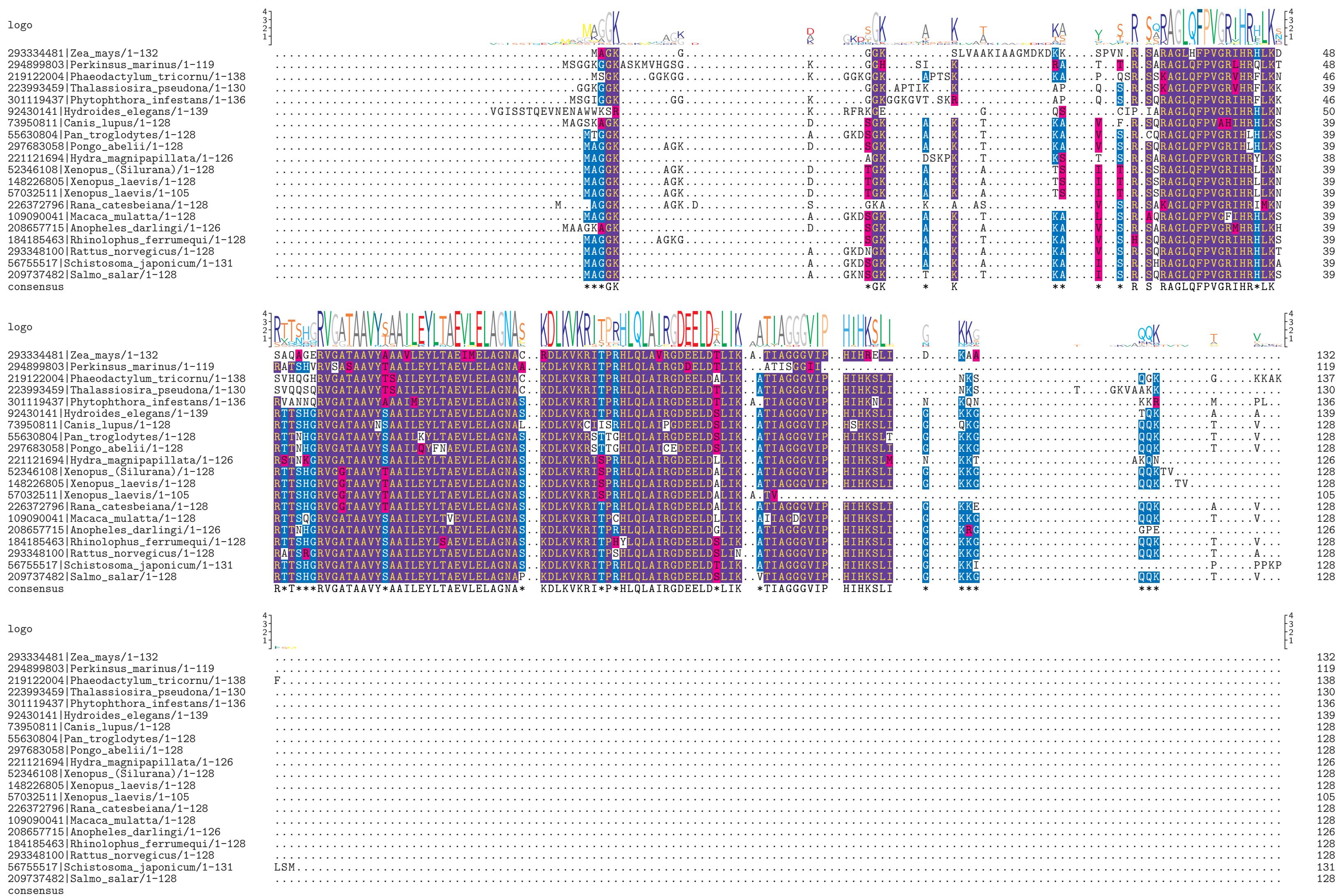


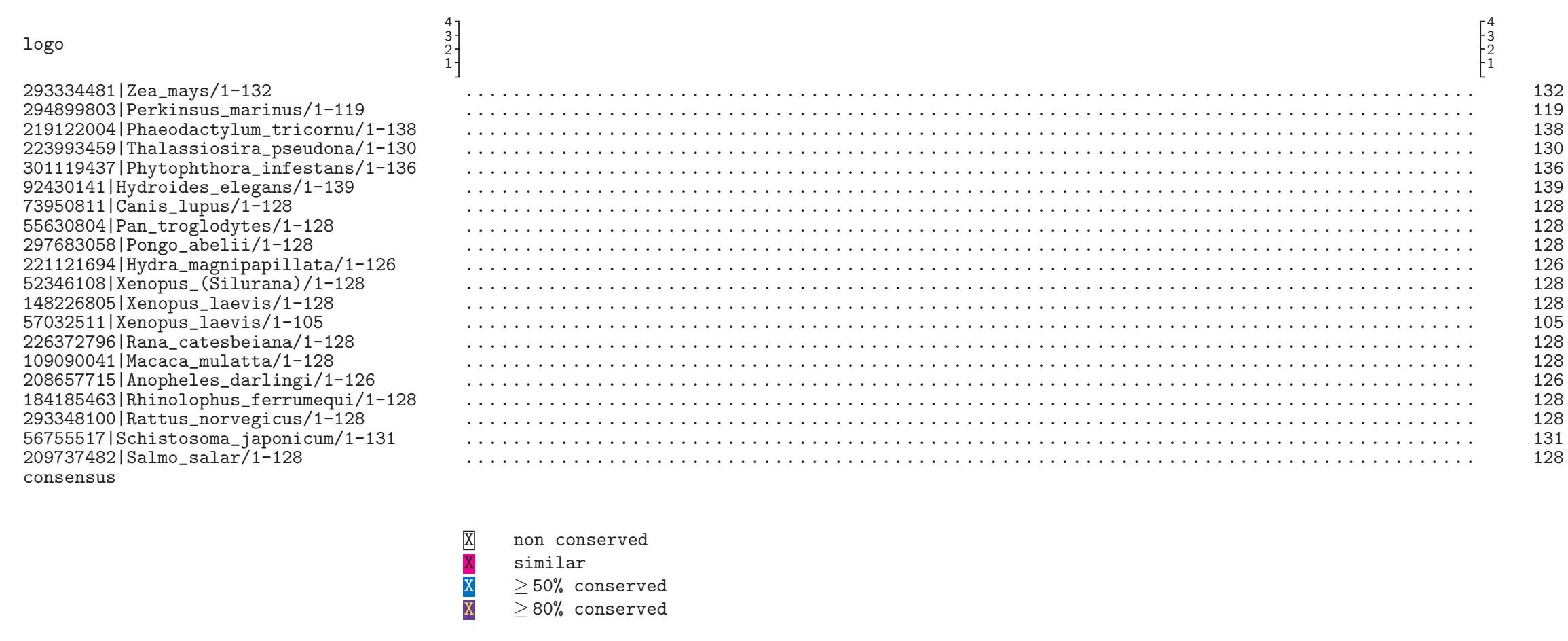
█ non conserved
█ similar
█ ≥ 50% conserved
█ ≥ 80% conserved

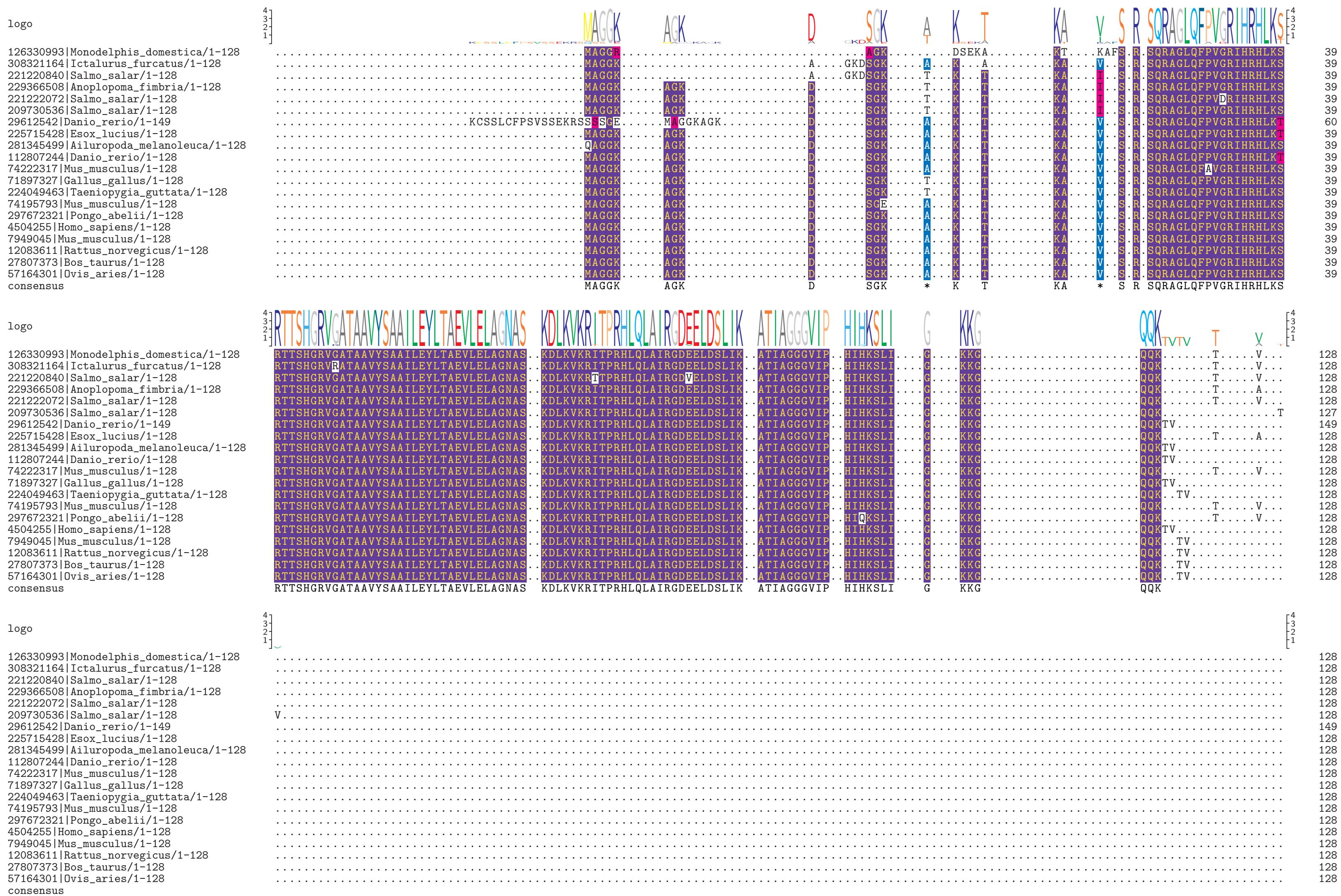


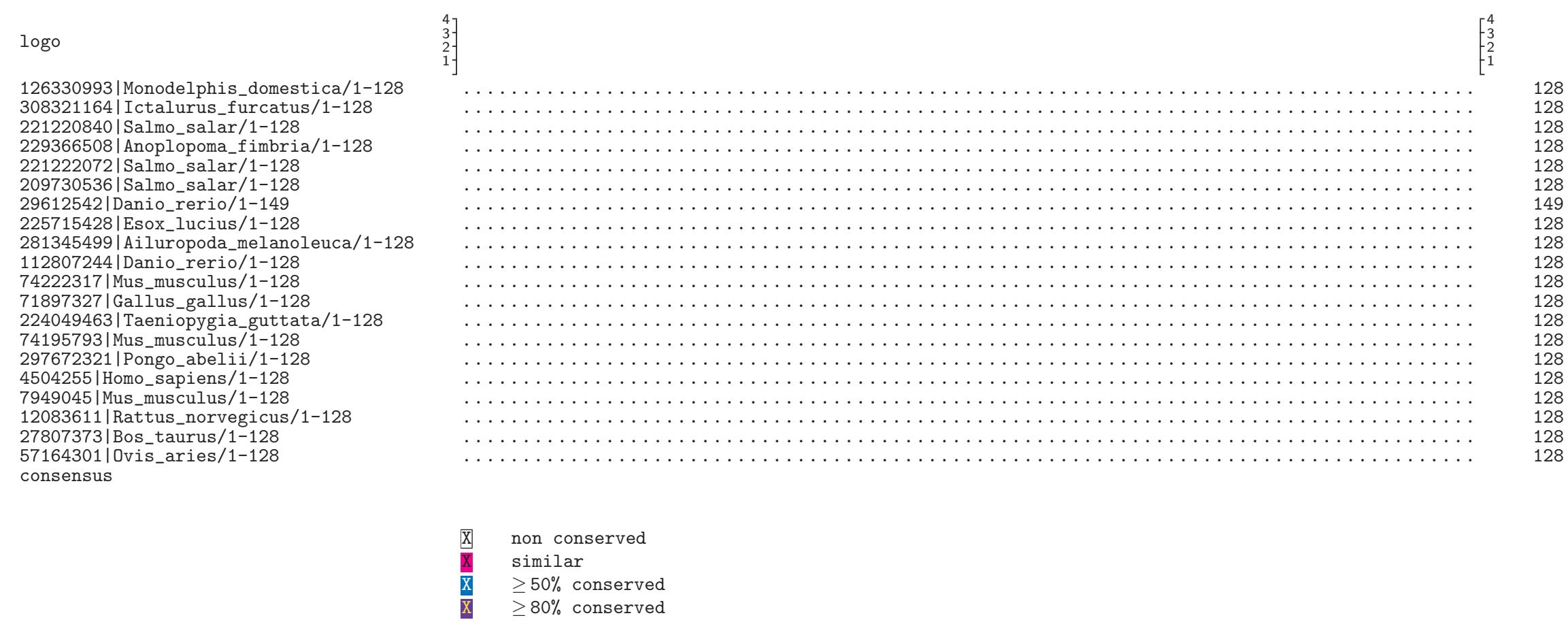


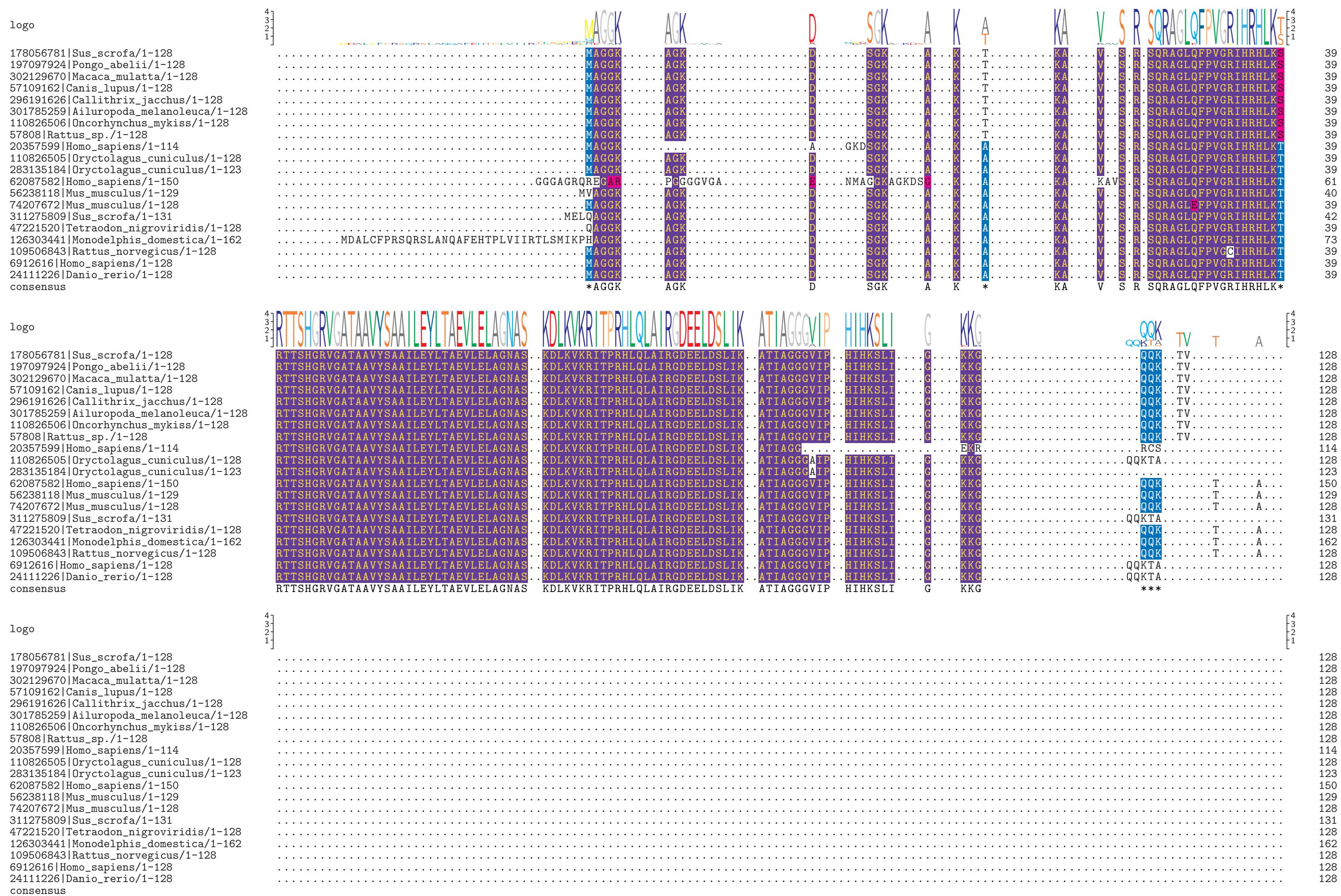
non conserved
 similar
 ≥ 50% conserved
 ≥ 80% conserved

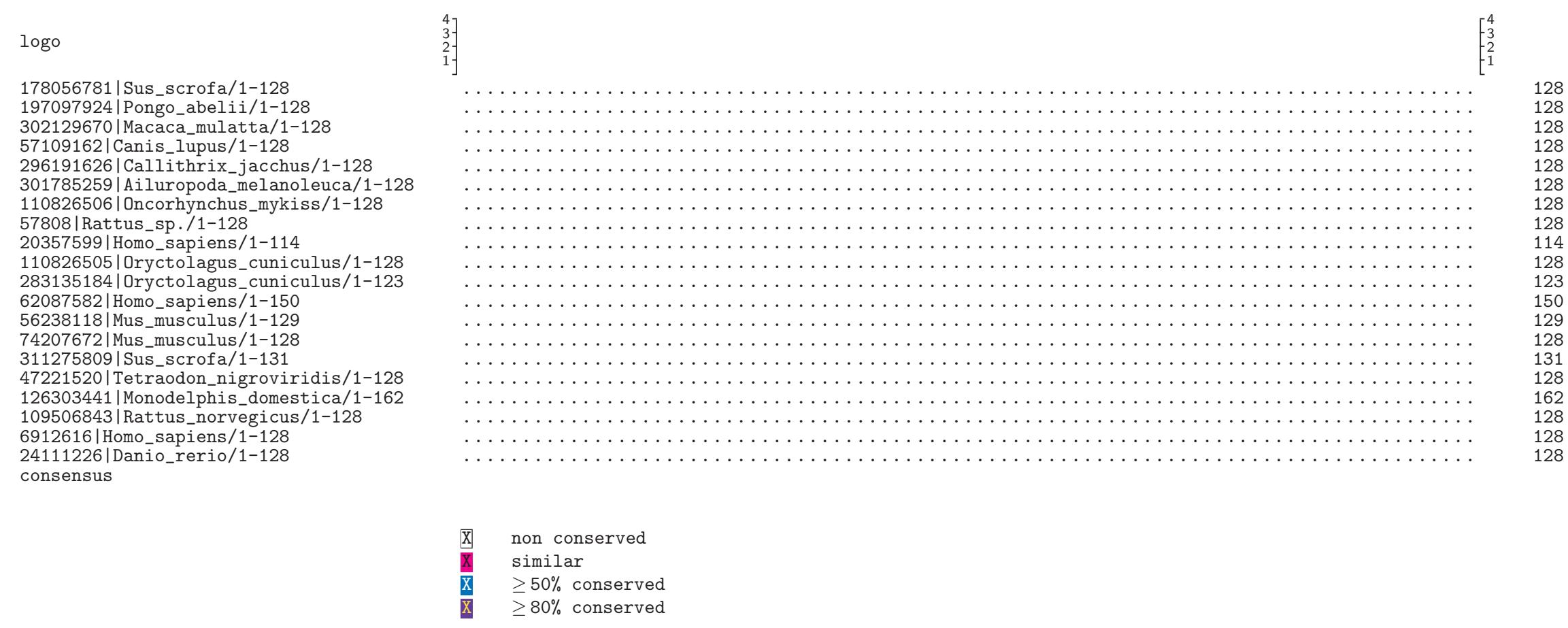


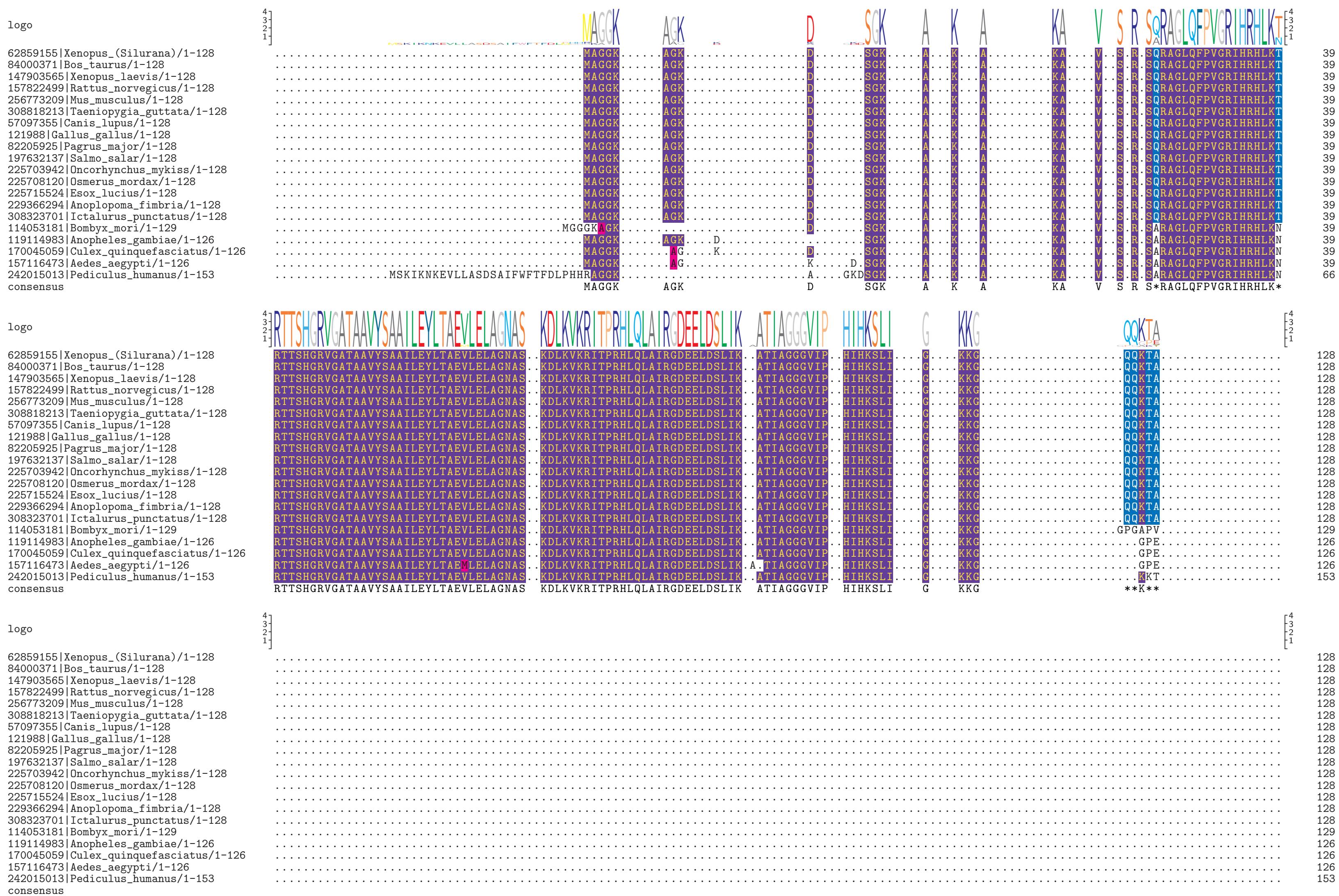


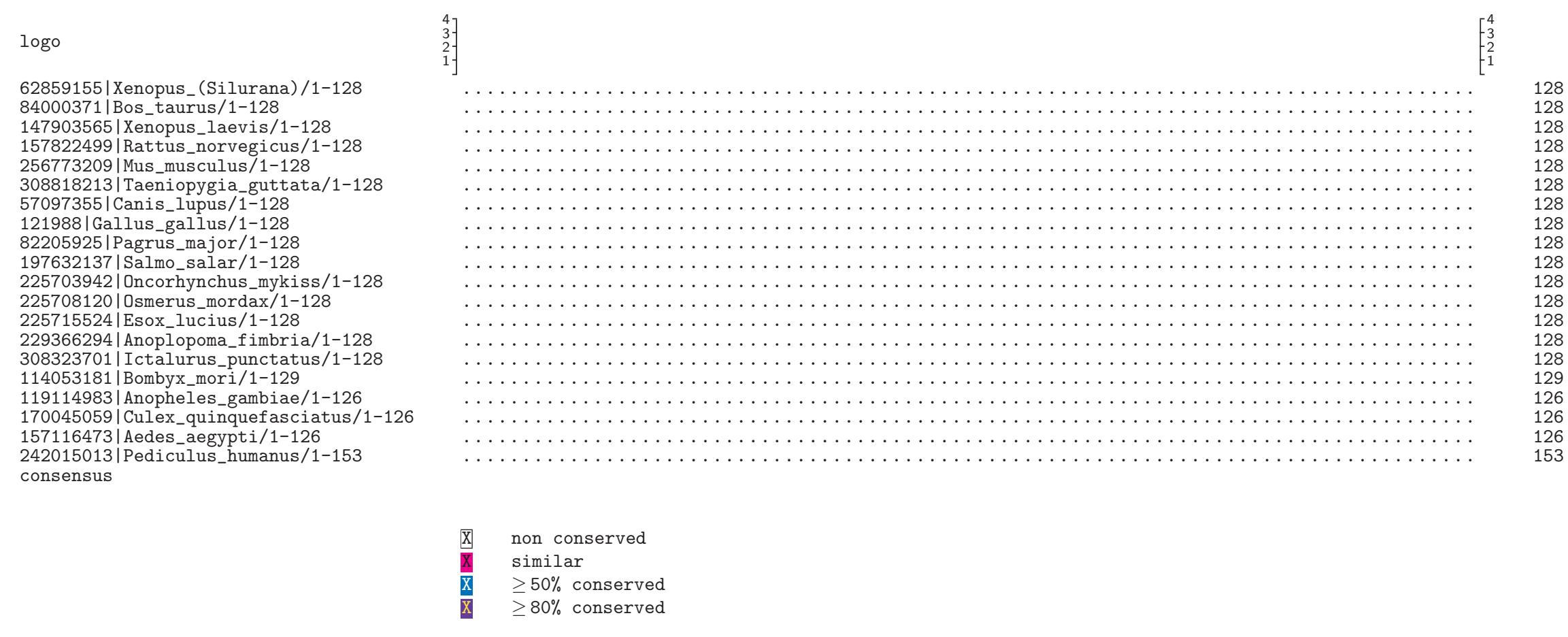


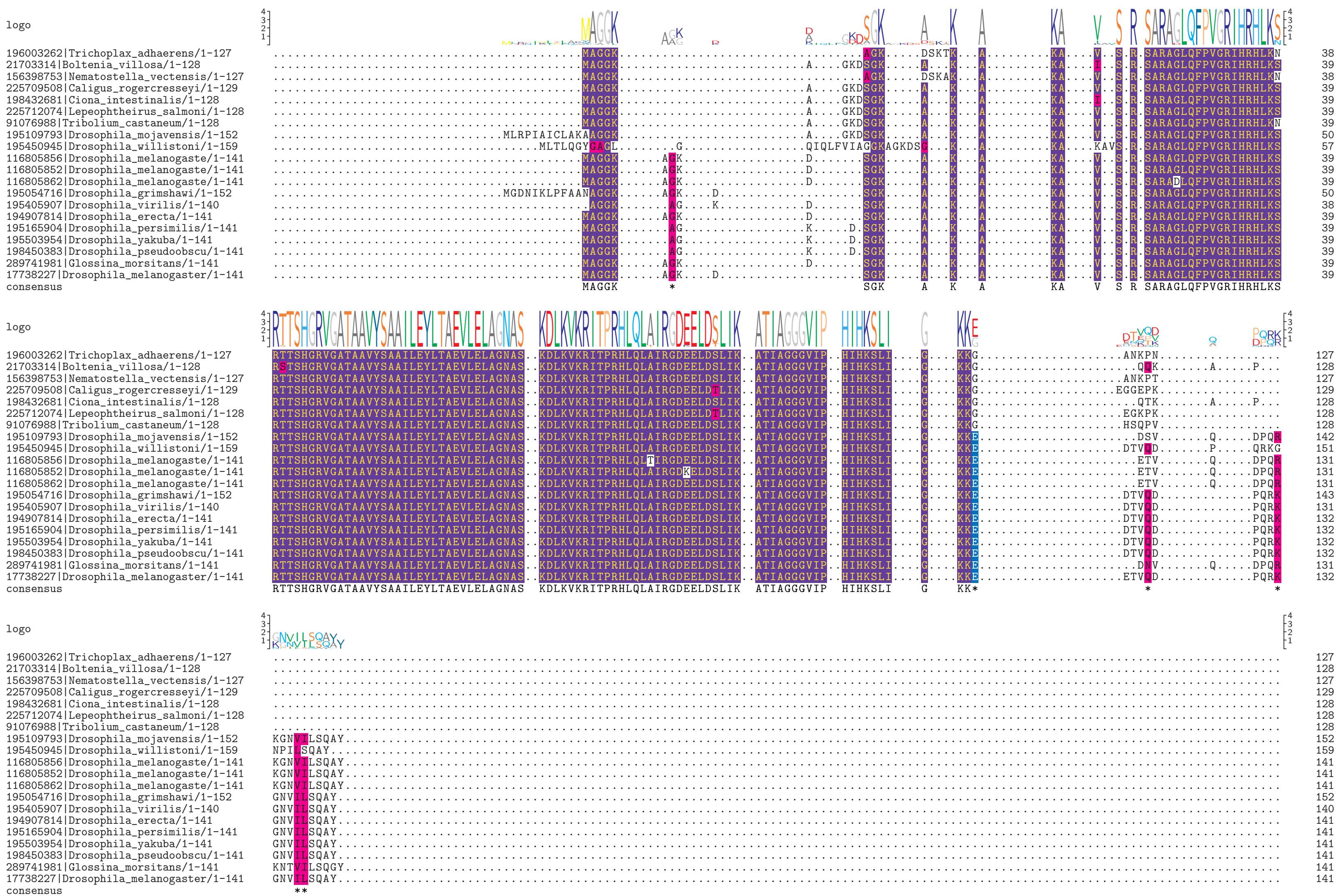


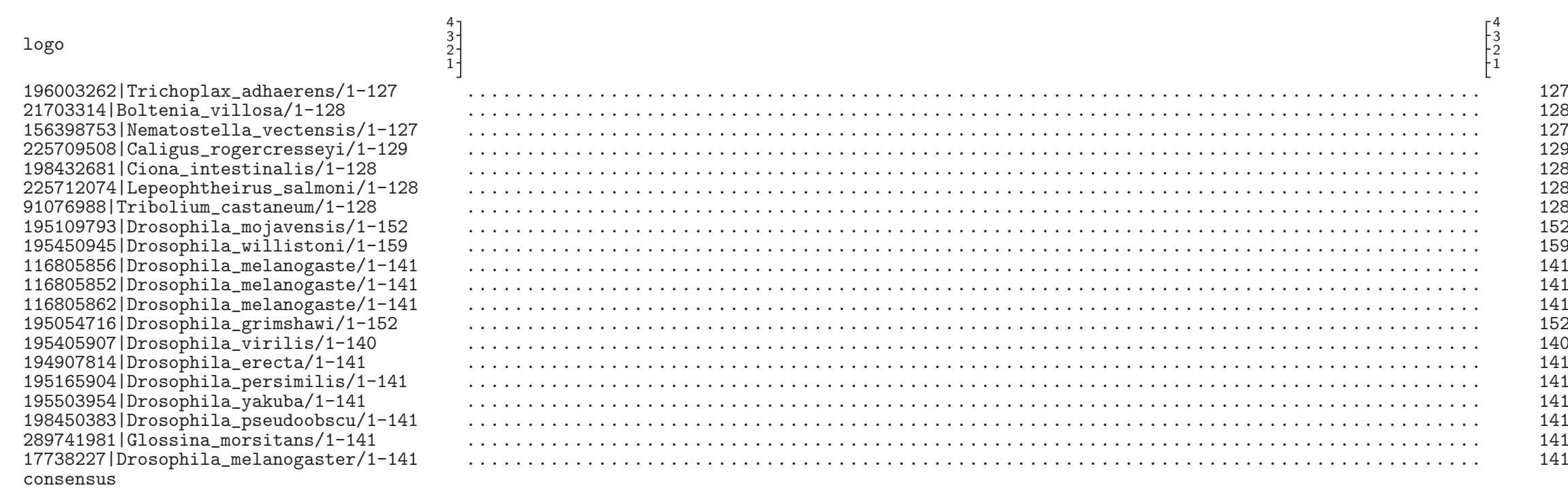




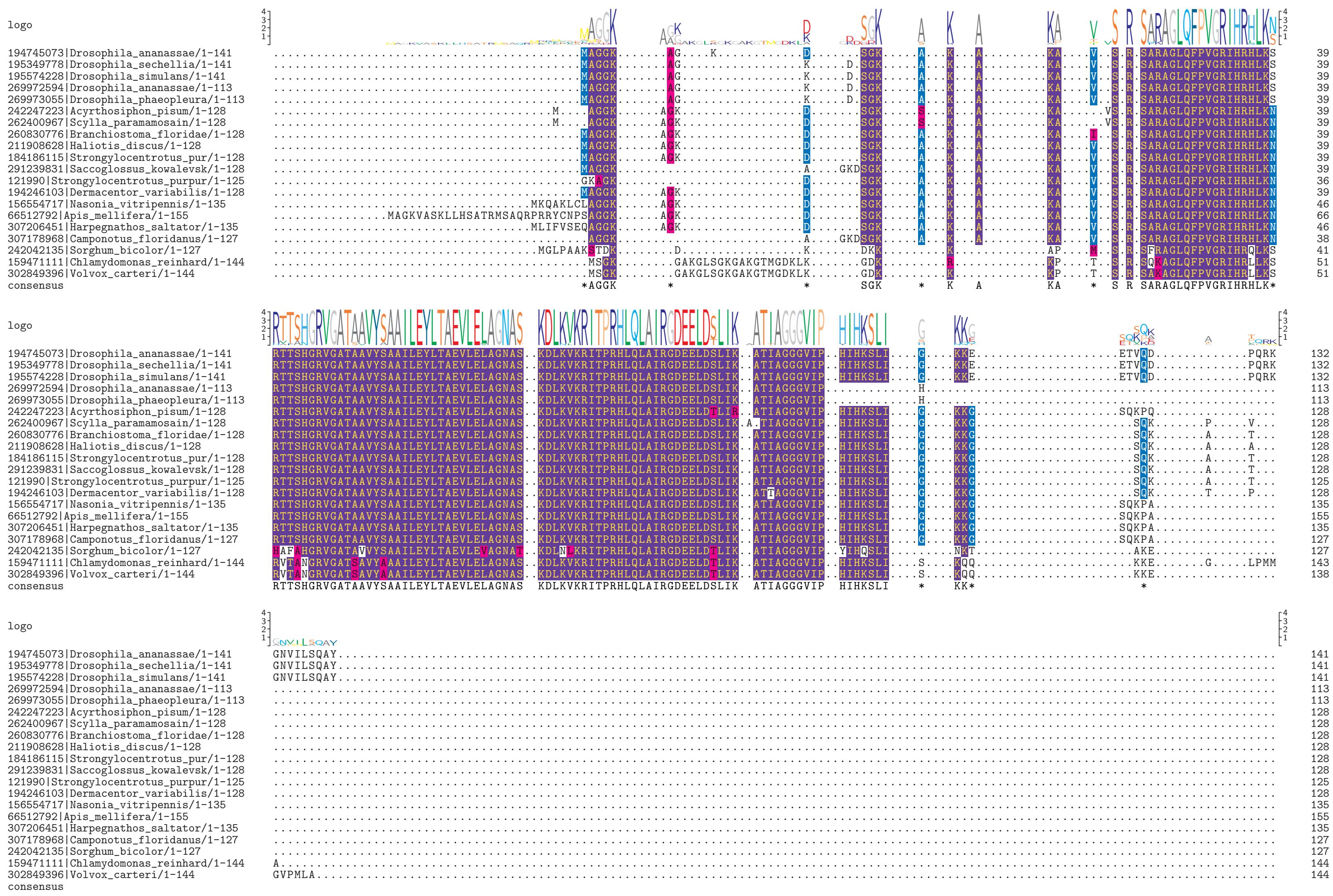


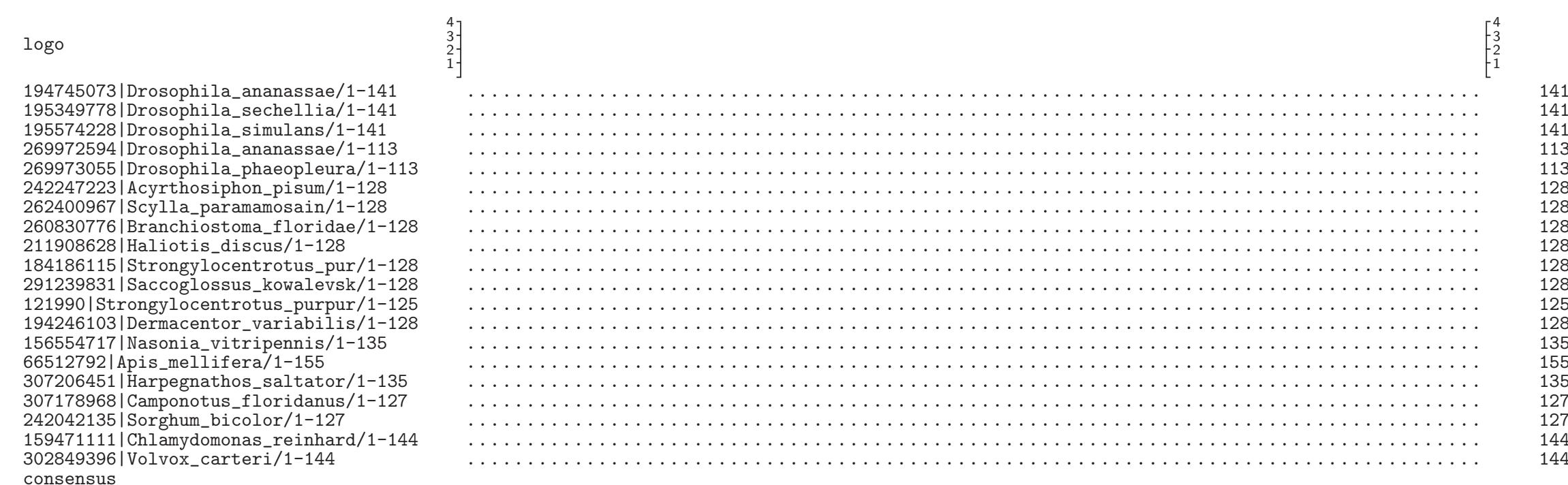




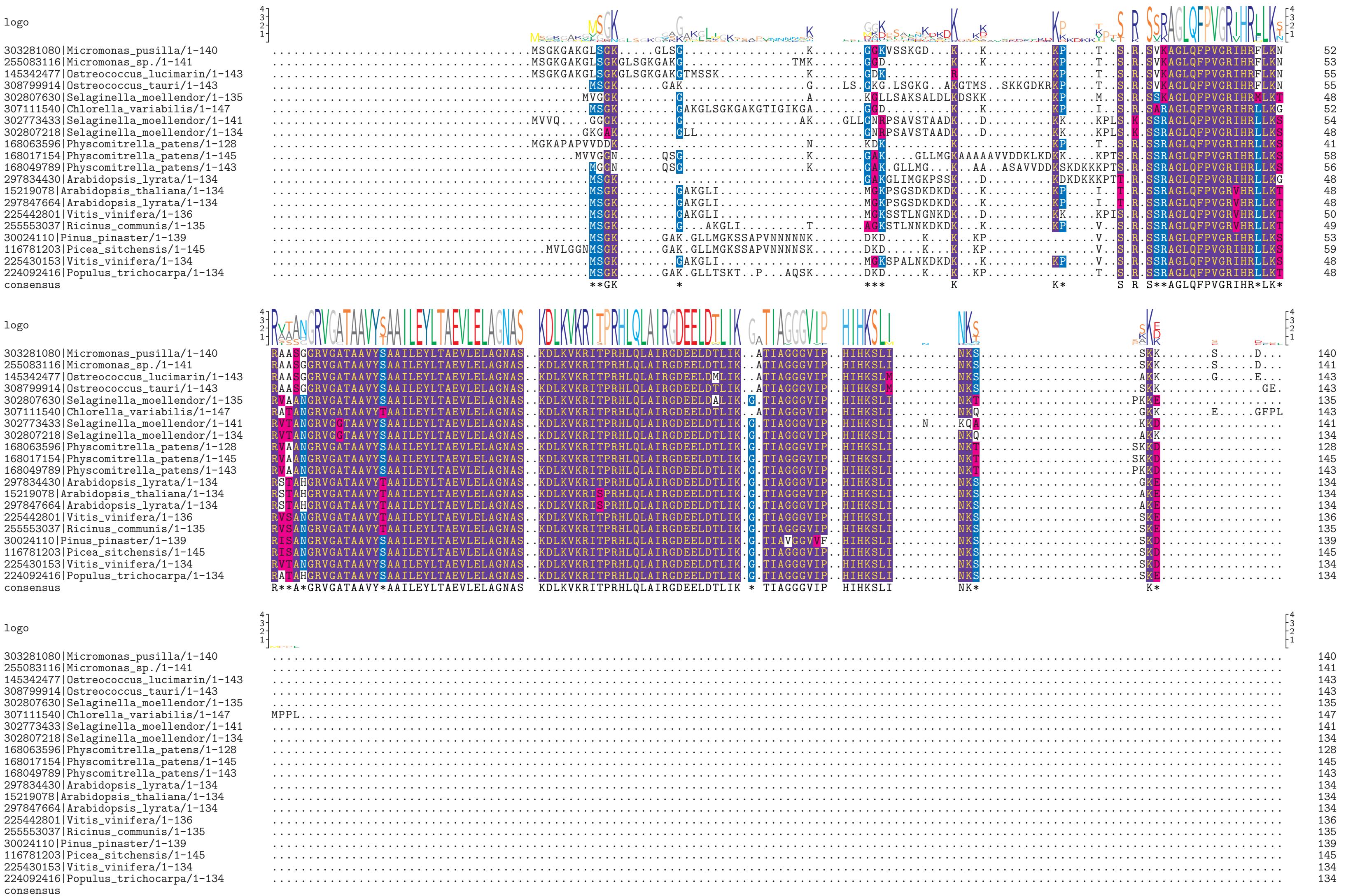


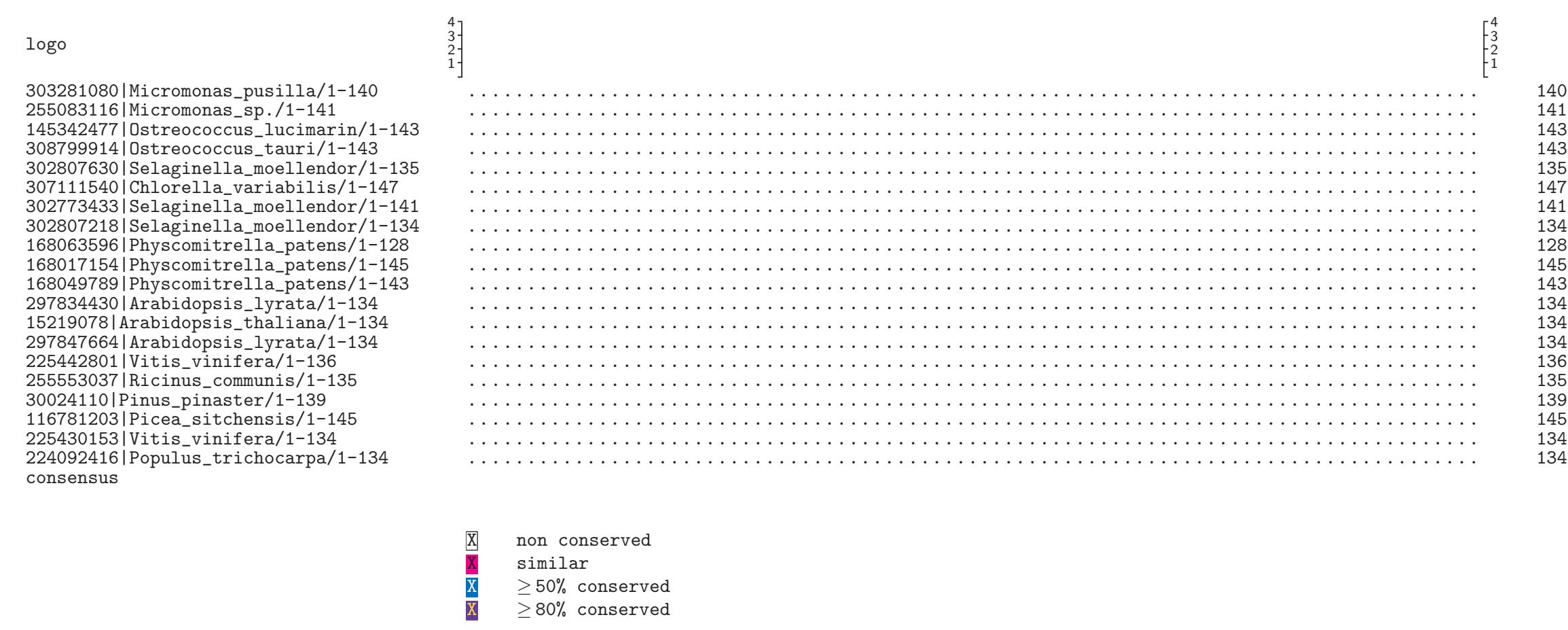
non conserved
 similar
 ≥ 50% conserved
 ≥ 80% conserved

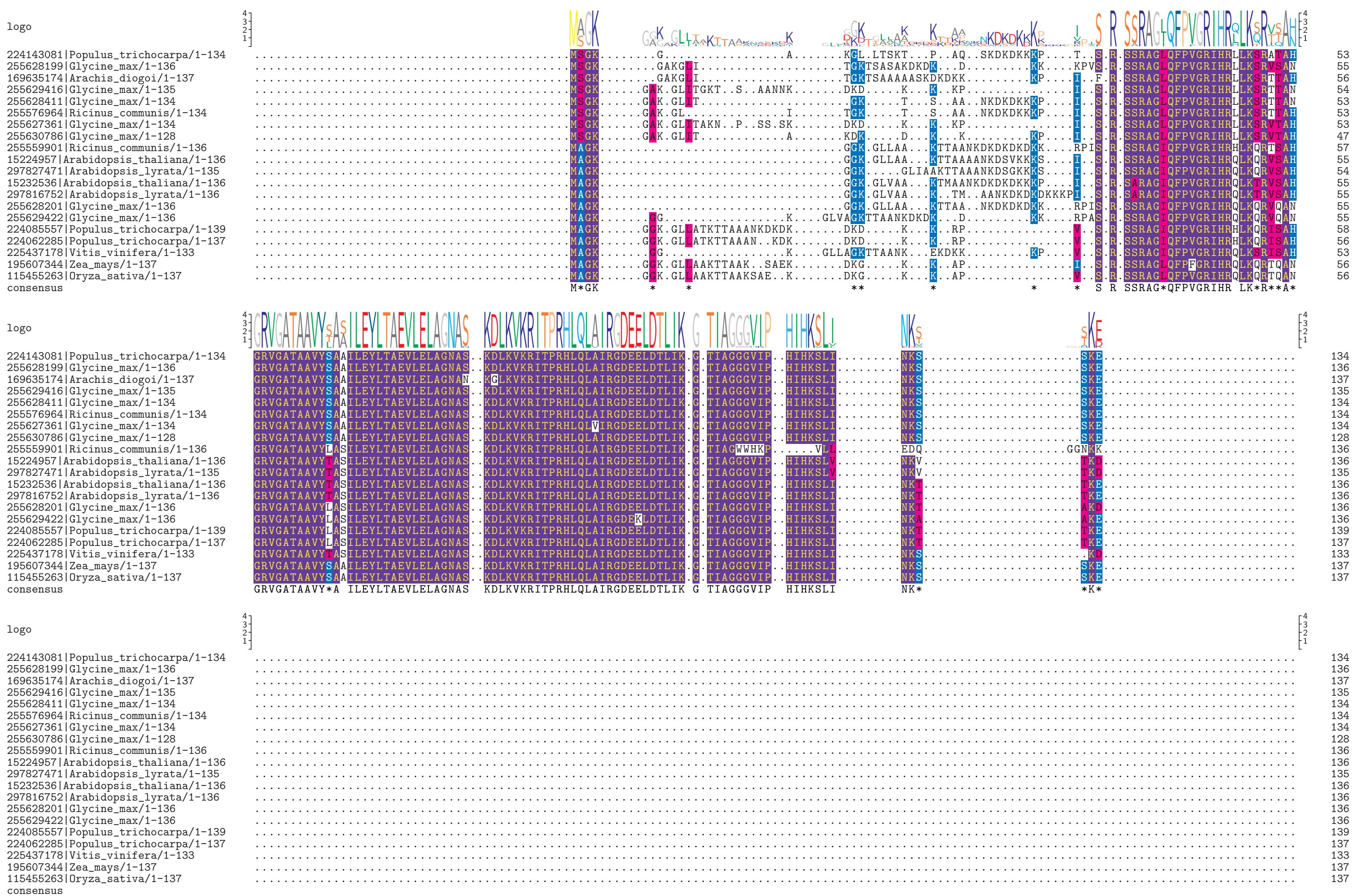


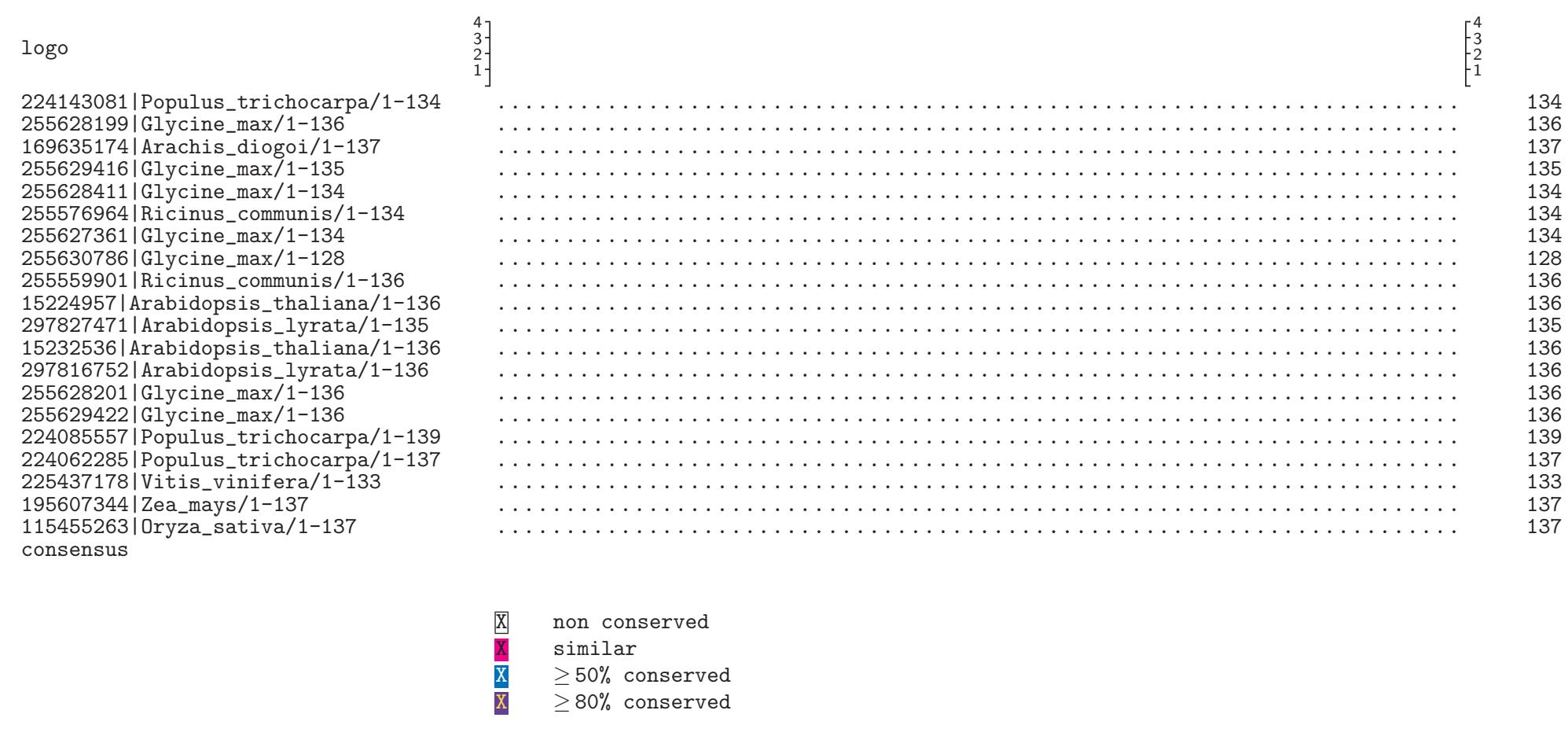


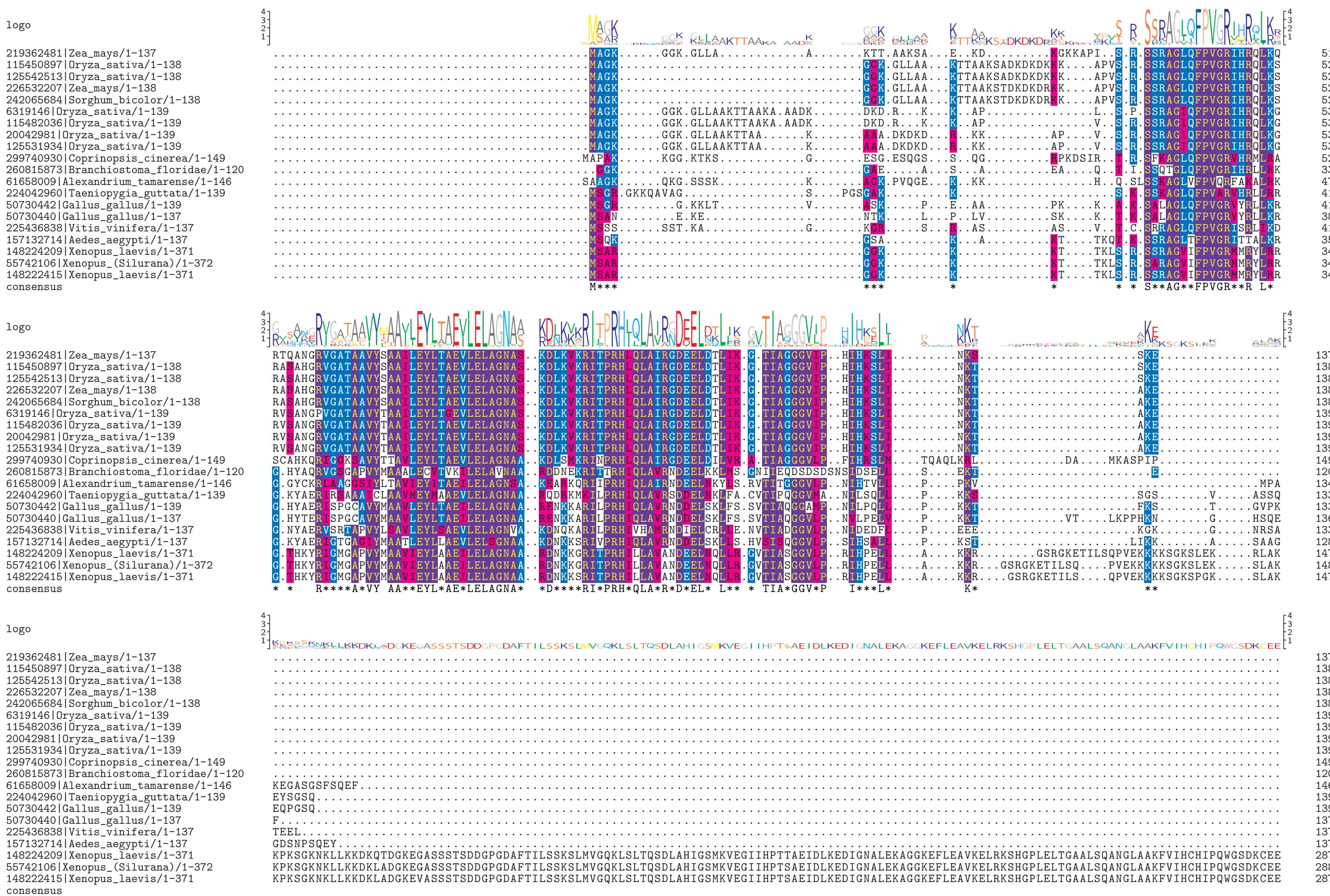
non conserved
 similar
 ≥ 50% conserved
 ≥ 80% conserved



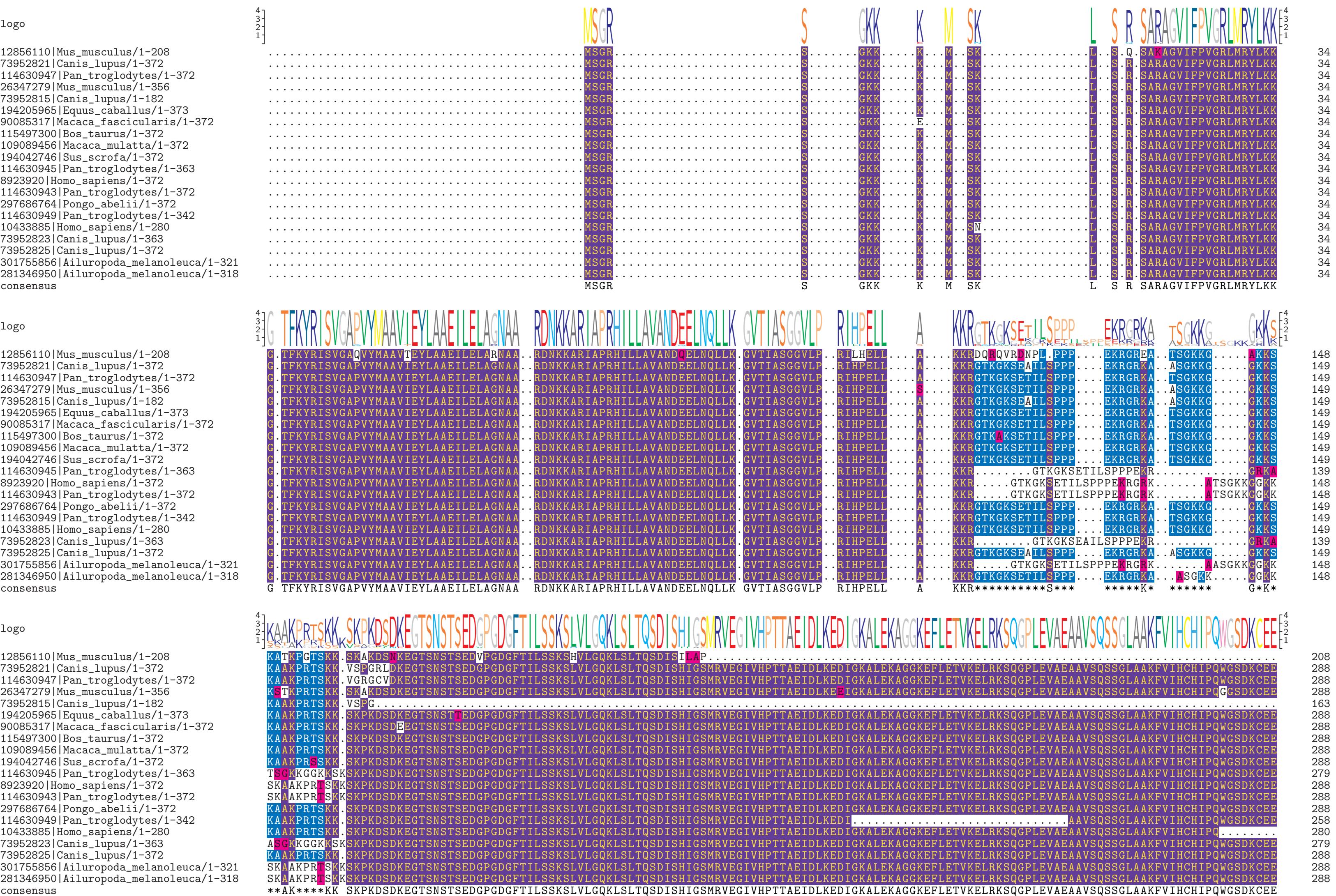












logc

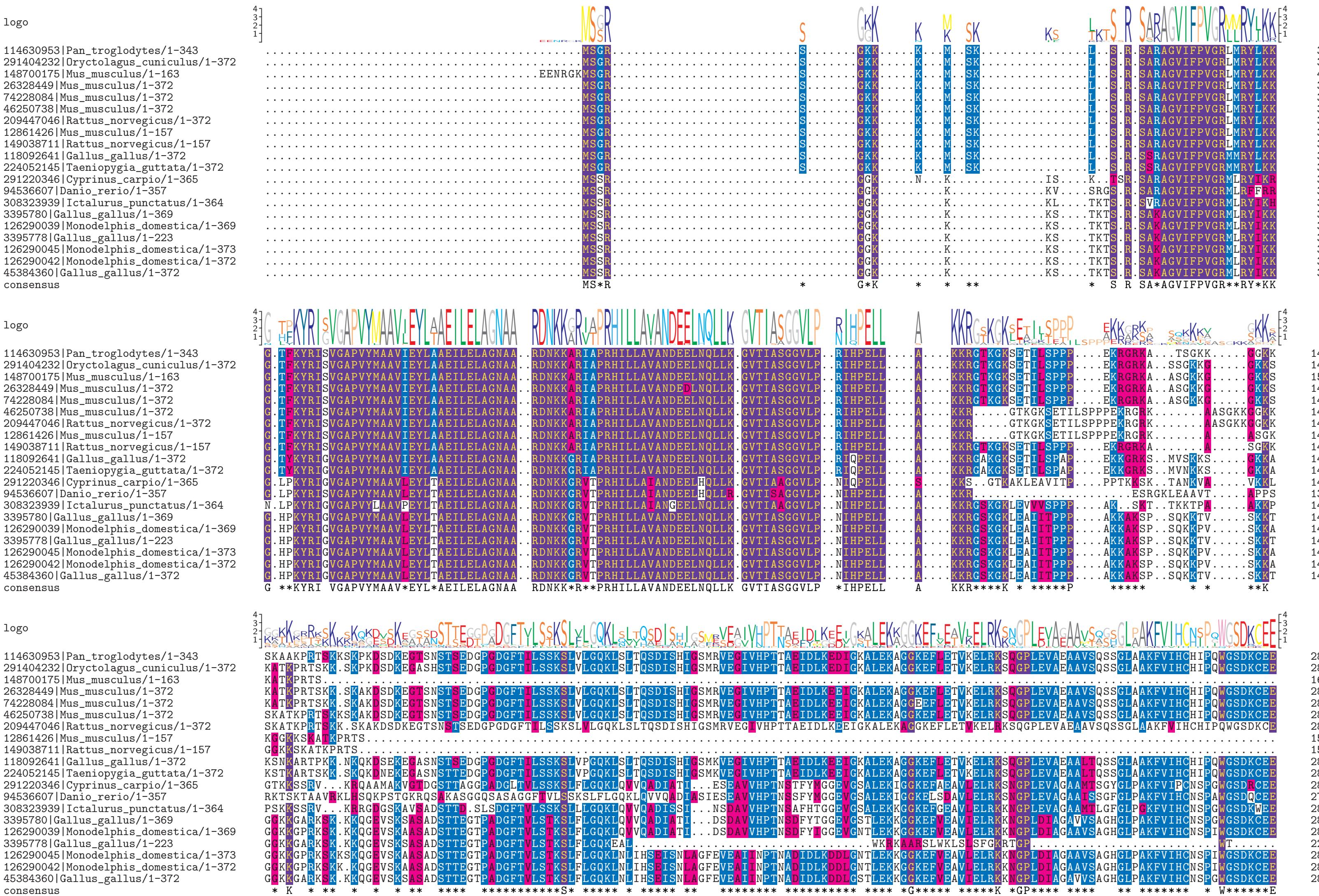
12856110|Mus_musculus/1-208
73952821|Canis_lupus/1-372
114630947|Pan_troglodytes/1-372
26347279|Mus_musculus/1-356
73952815|Canis_lupus/1-182
194205965|Equus_caballus/1-373
90085317|Macaca_fascicularis/1-372
115497300|Bos_taurus/1-372
109089456|Macaca_mulatta/1-372
194042746|Sus_scrofa/1-372
114630945|Pan_troglodytes/1-363
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

The sequence logo displays the probability of each amino acid at every position in the protein sequence. The x-axis represents the sequence positions, and the y-axis represents the amino acid probabilities. The legend indicates the color coding for each amino acid:

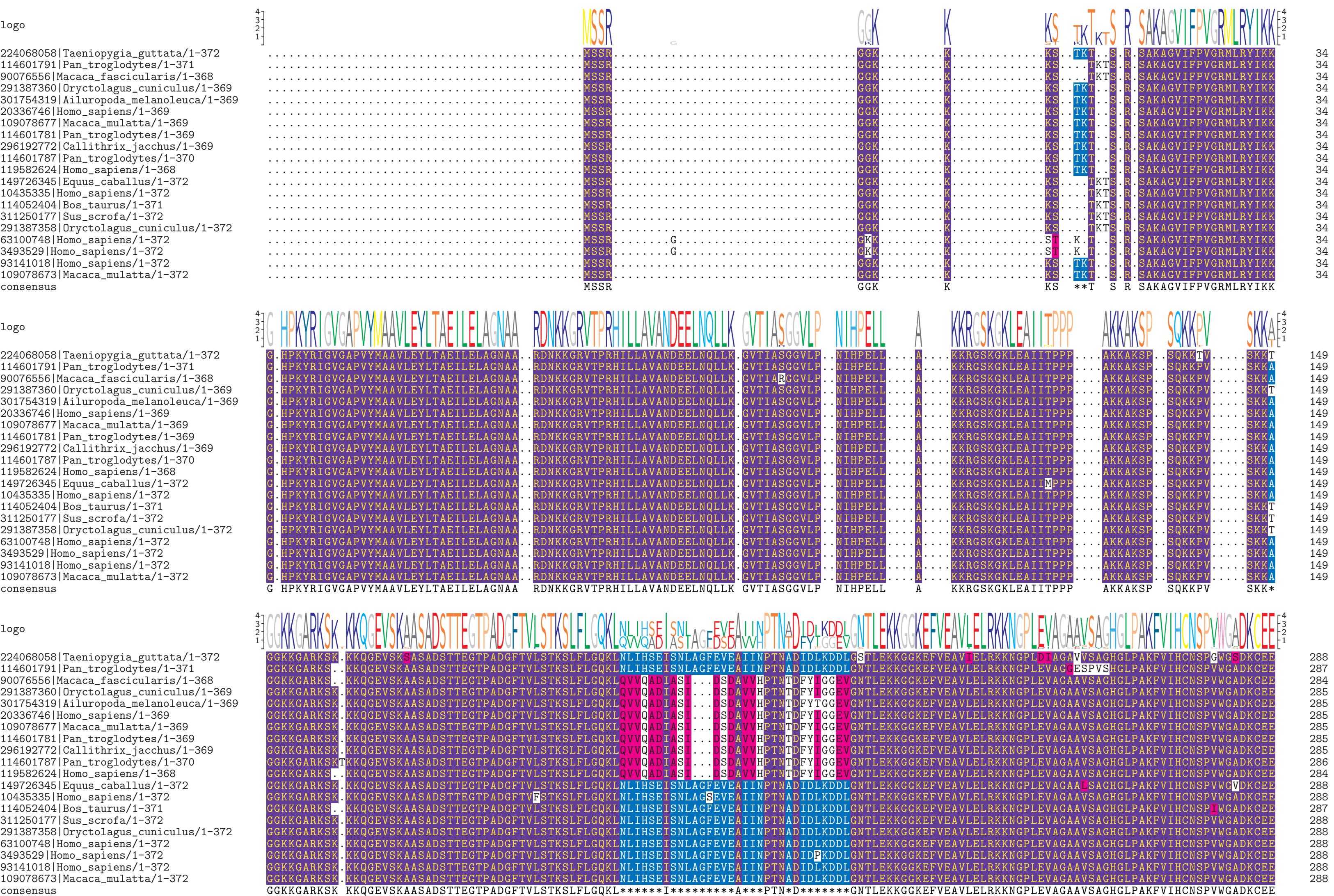
- A (green)
- C (blue)
- D (red)
- E (orange)
- F (yellow)
- G (light blue)
- H (purple)
- I (pink)
- K (dark blue)
- L (light green)
- M (brown)
- N (teal)
- P (grey)
- Q (light orange)
- R (dark red)
- S (light pink)
- T (yellow-green)
- V (light blue-grey)
- W (yellow-orange)
- Y (yellow)

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

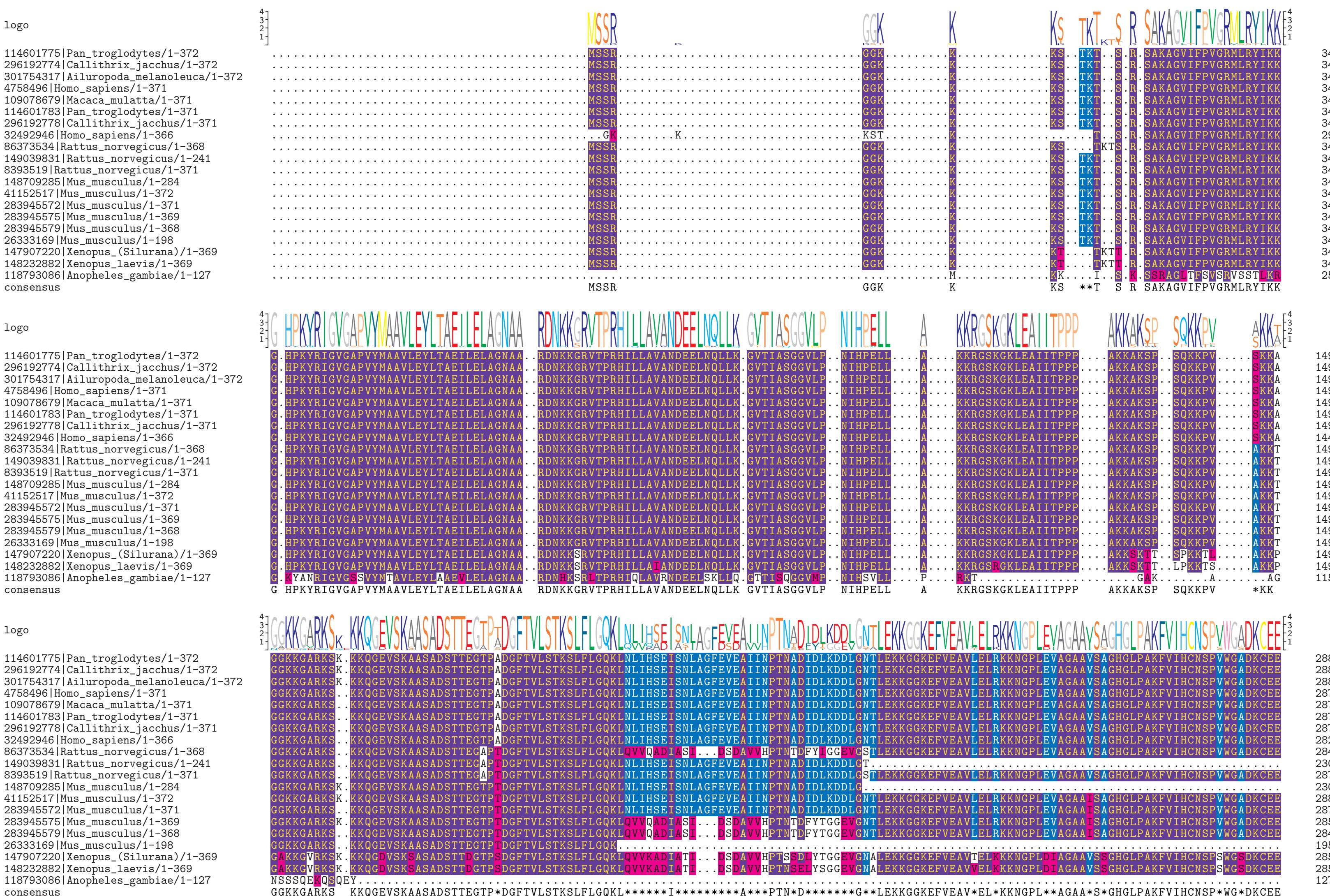
- █ non conserved
- █ similar
- █ ≥ 50% conserved
- █ ≥ 80% conserved



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

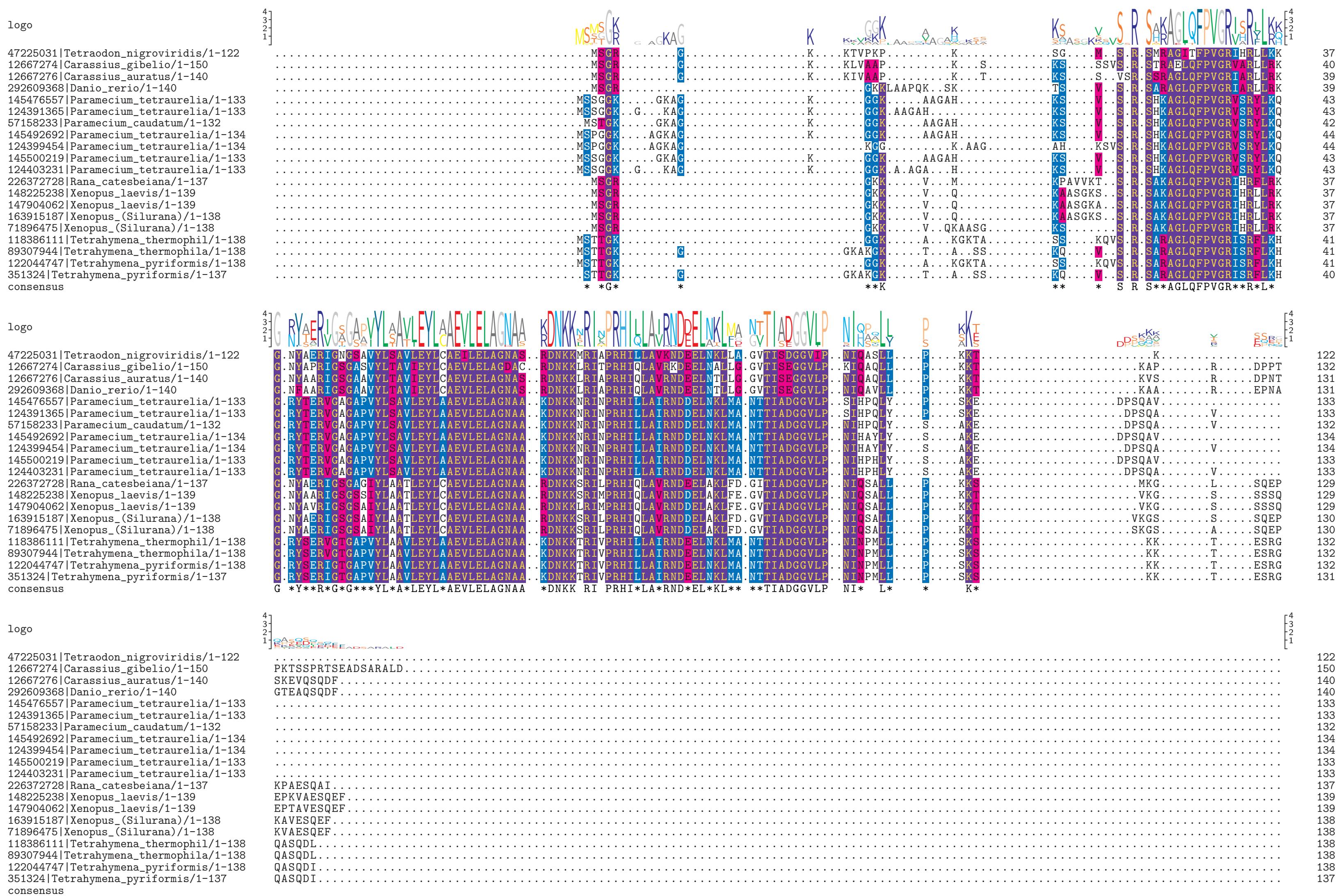


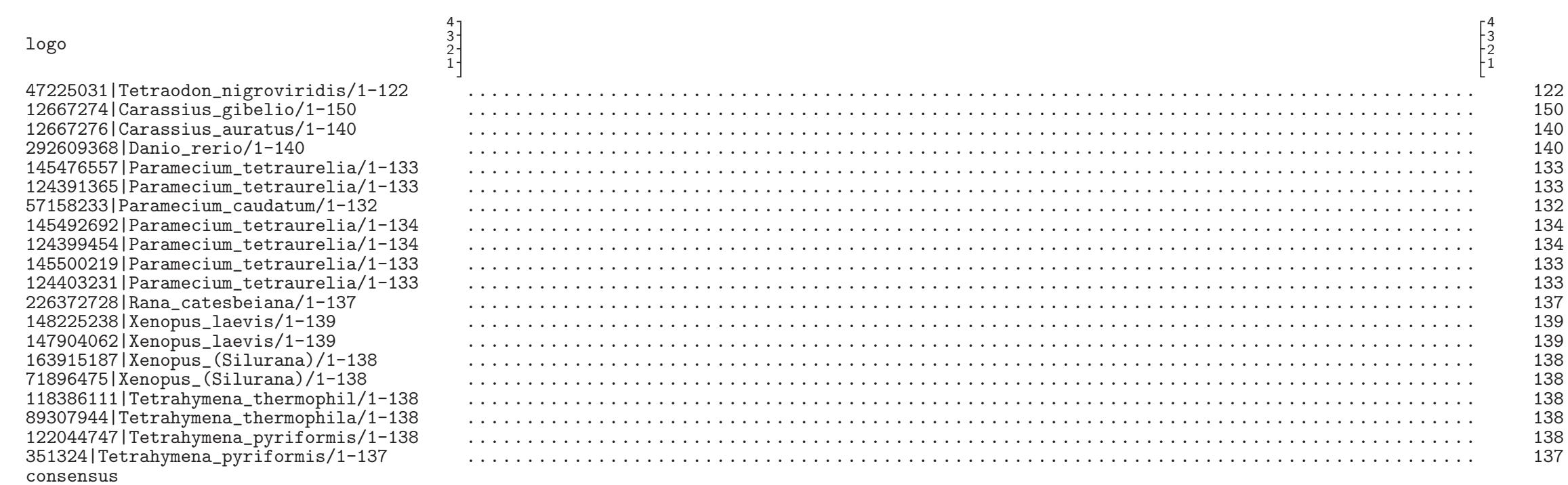




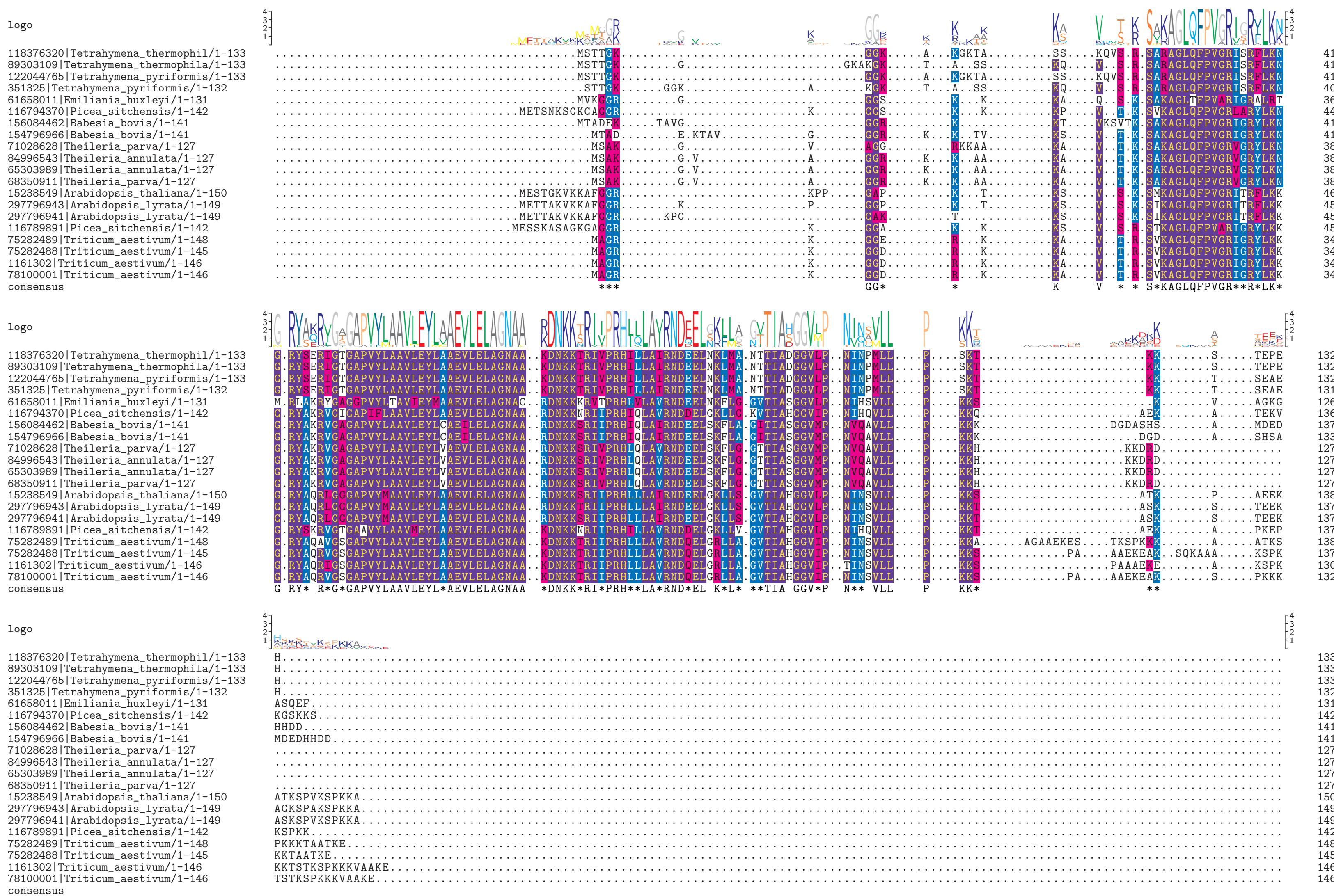
Sequence logo showing conservation of amino acids across 18 protein sequences. The x-axis represents positions 1 to 372. The y-axis lists species and their lengths. A legend at the bottom indicates conservation levels: non-conserved (grey), similar (pink), >50% conserved (blue), and >80% conserved (yellow).

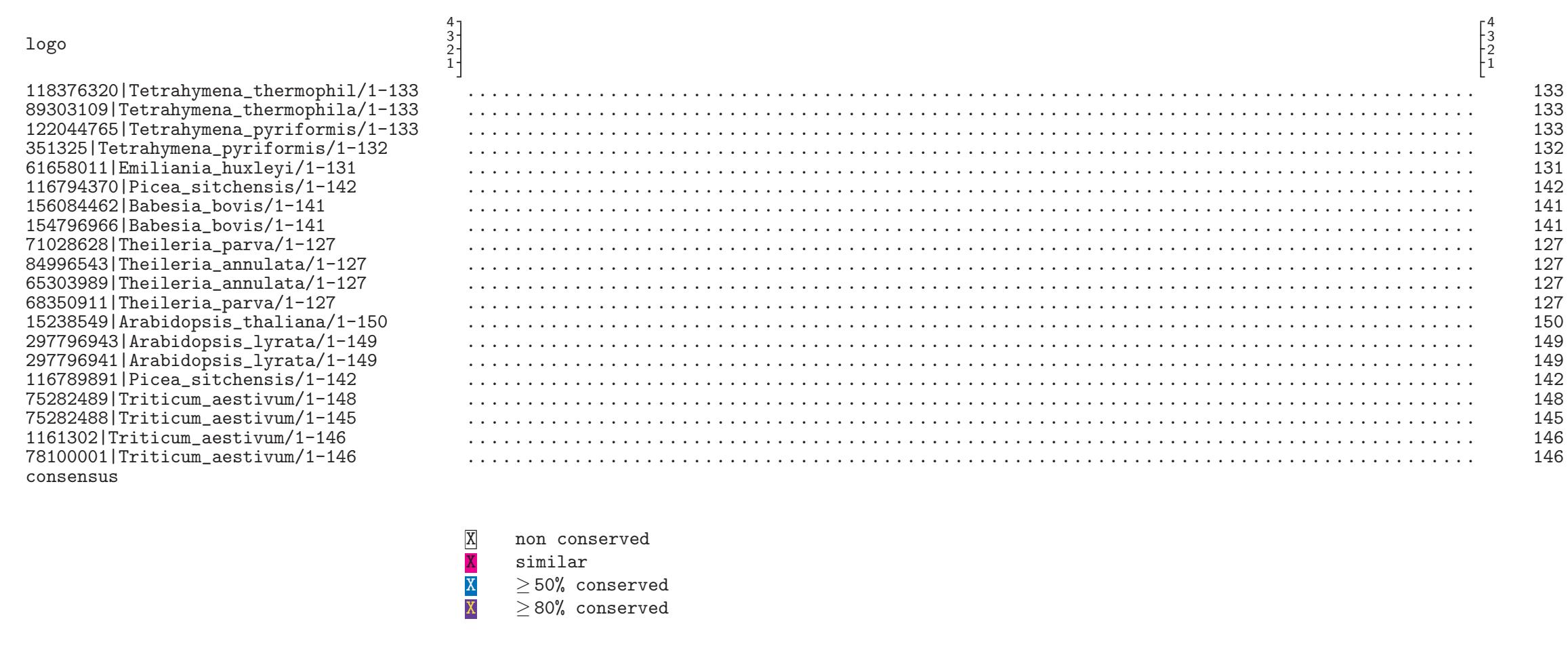
| Species | Length | Sequence |
|--|--------|---|
| 114601775 Pan_troglodytes / 1-372 | 372 | LLEKTVKNCLALADDKKLKSIAFPSIGS |
| 296192774 Callithrix_jacchus / 1-372 | 372 | LLEKTVKNCLALADDKKLKSIAFPSIGS |
| 301754317 Ailuropoda_melanoleuca / 1-372 | 372 | LLEKTVKNCLALADDKKLKSIAFPSIGS |
| 4758496 Homo_sapiens / 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 | NGFPKQTAQLILKAISYYFVSTMSSSIKTVYFMLFDSESIGIYVQEMAKLDAN |
| 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 |

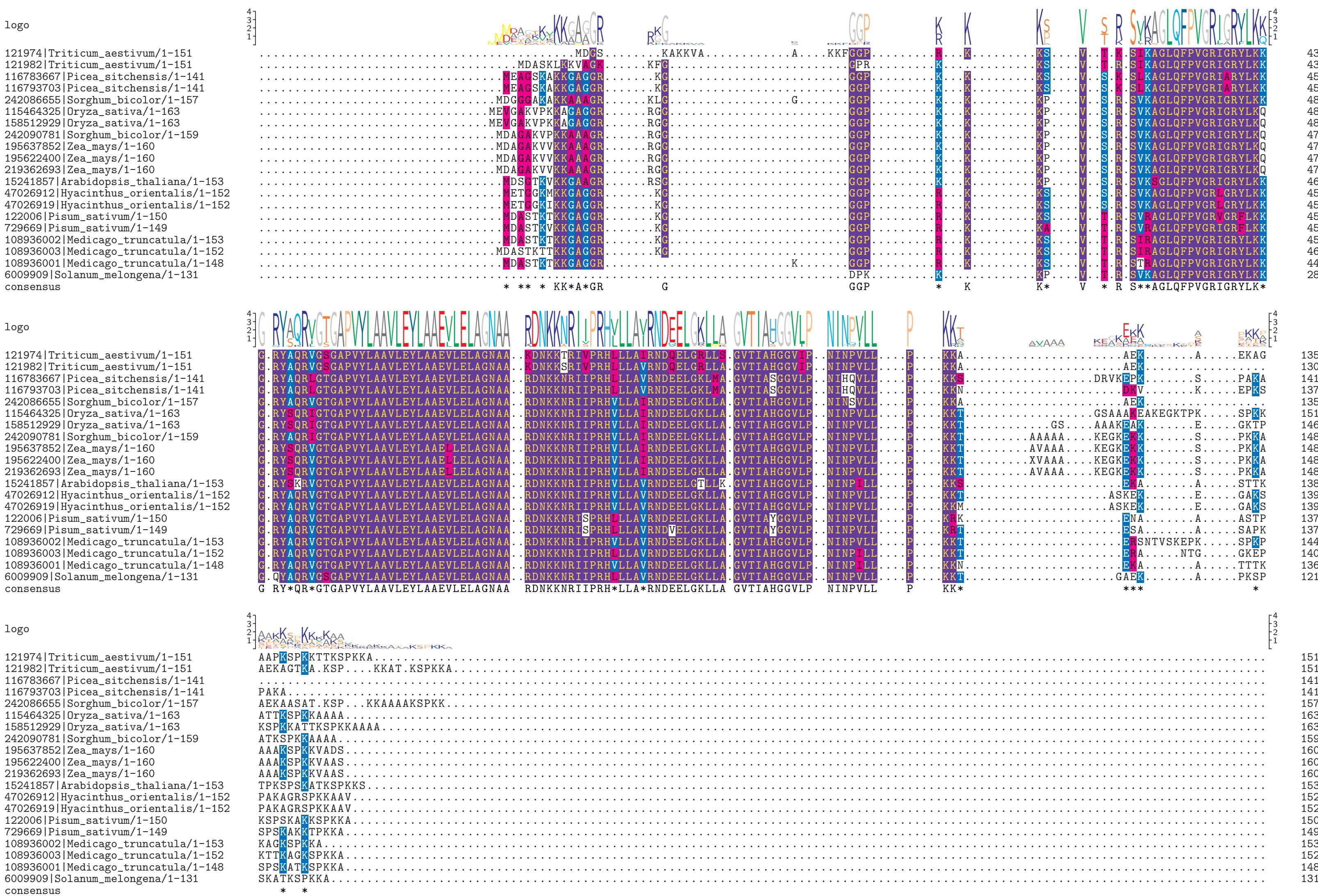


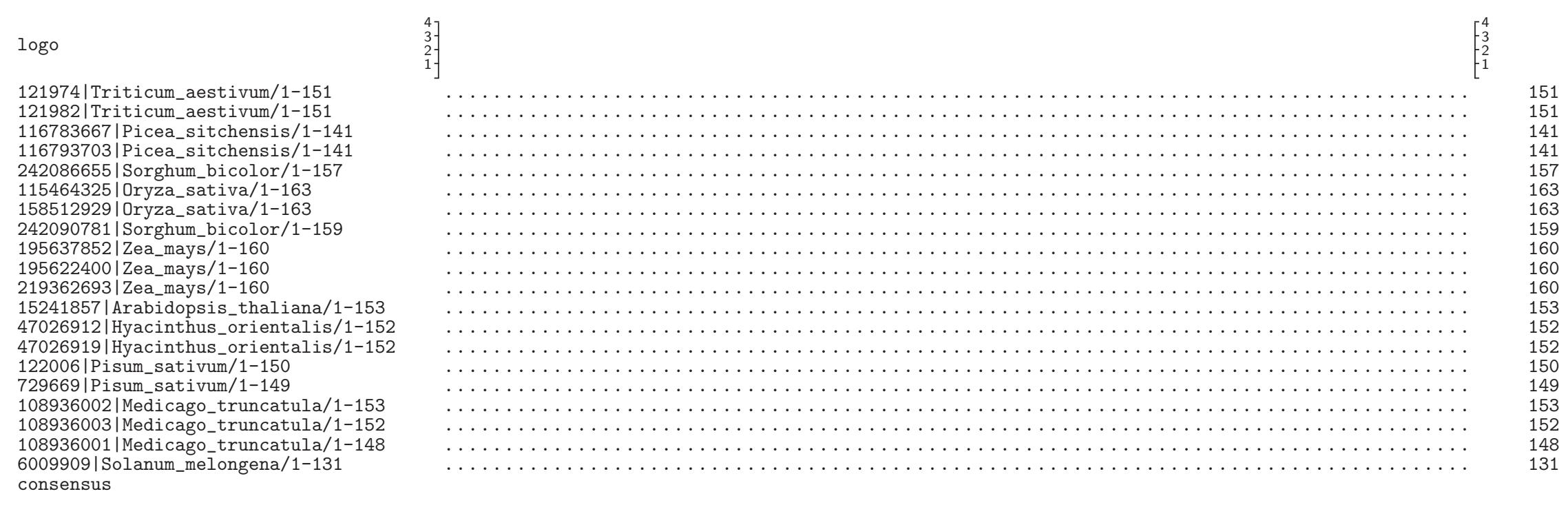


| | |
|--|-----------------|
| | non conserved |
| | similar |
| | ≥ 50% conserved |
| | ≥ 80% conserved |

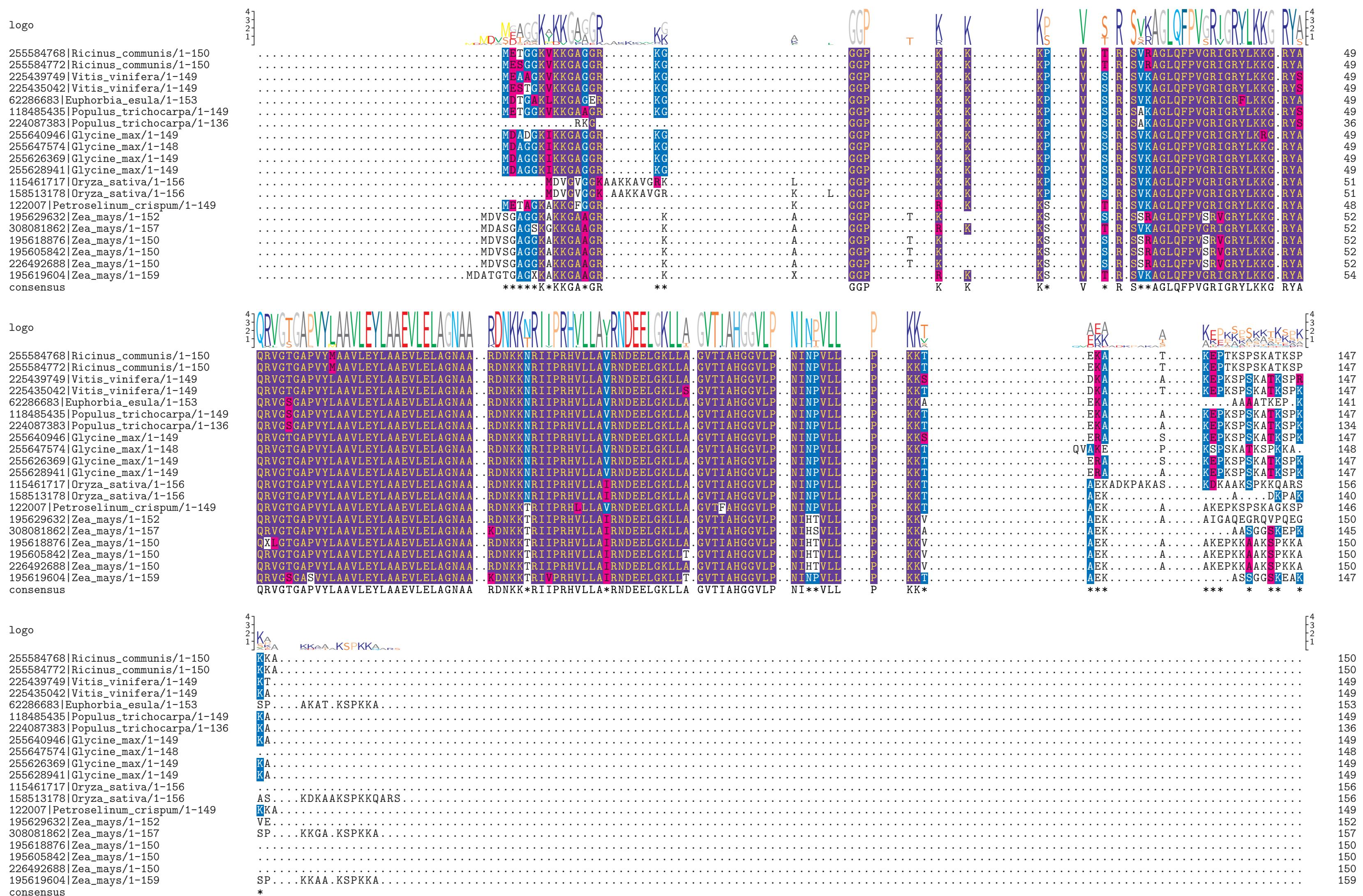


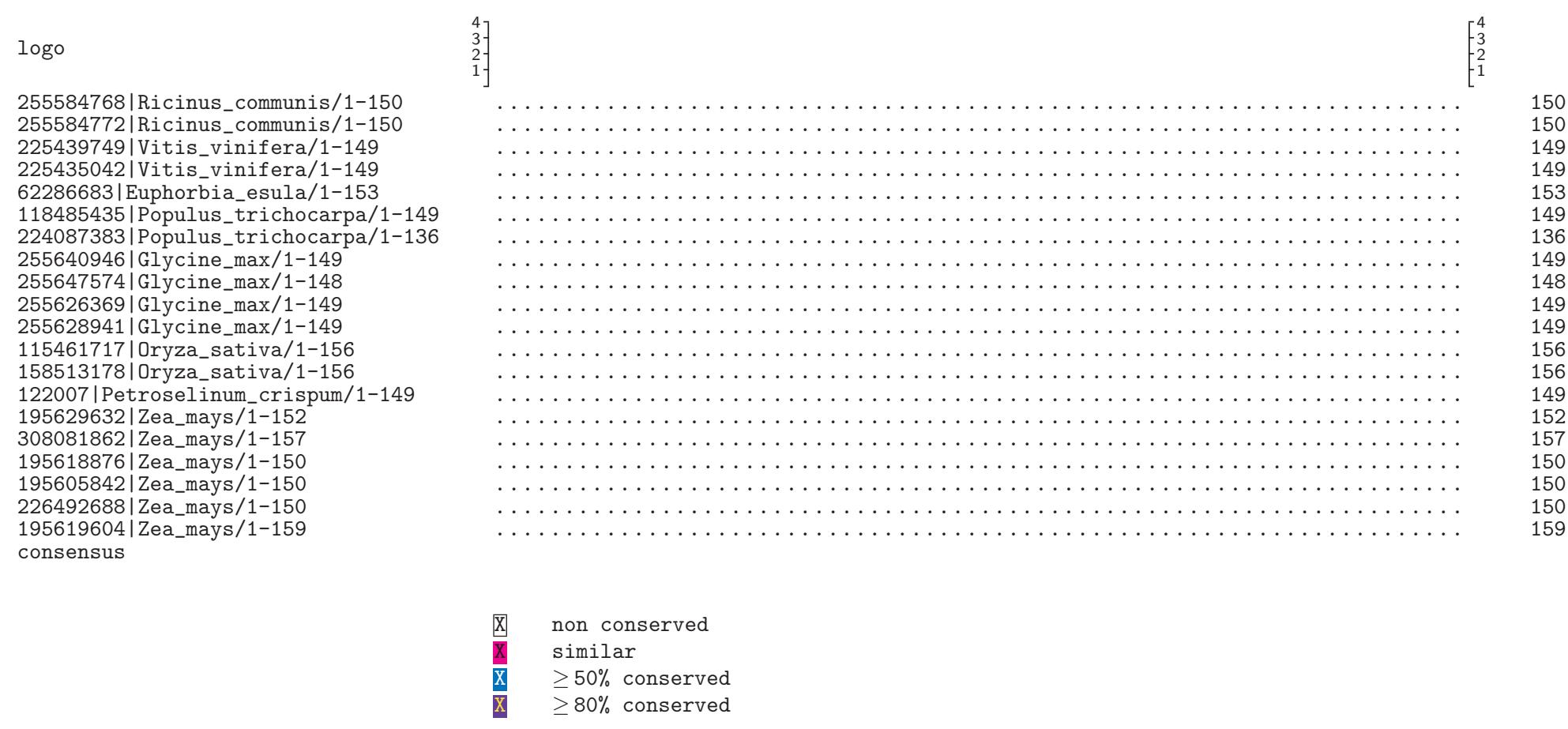


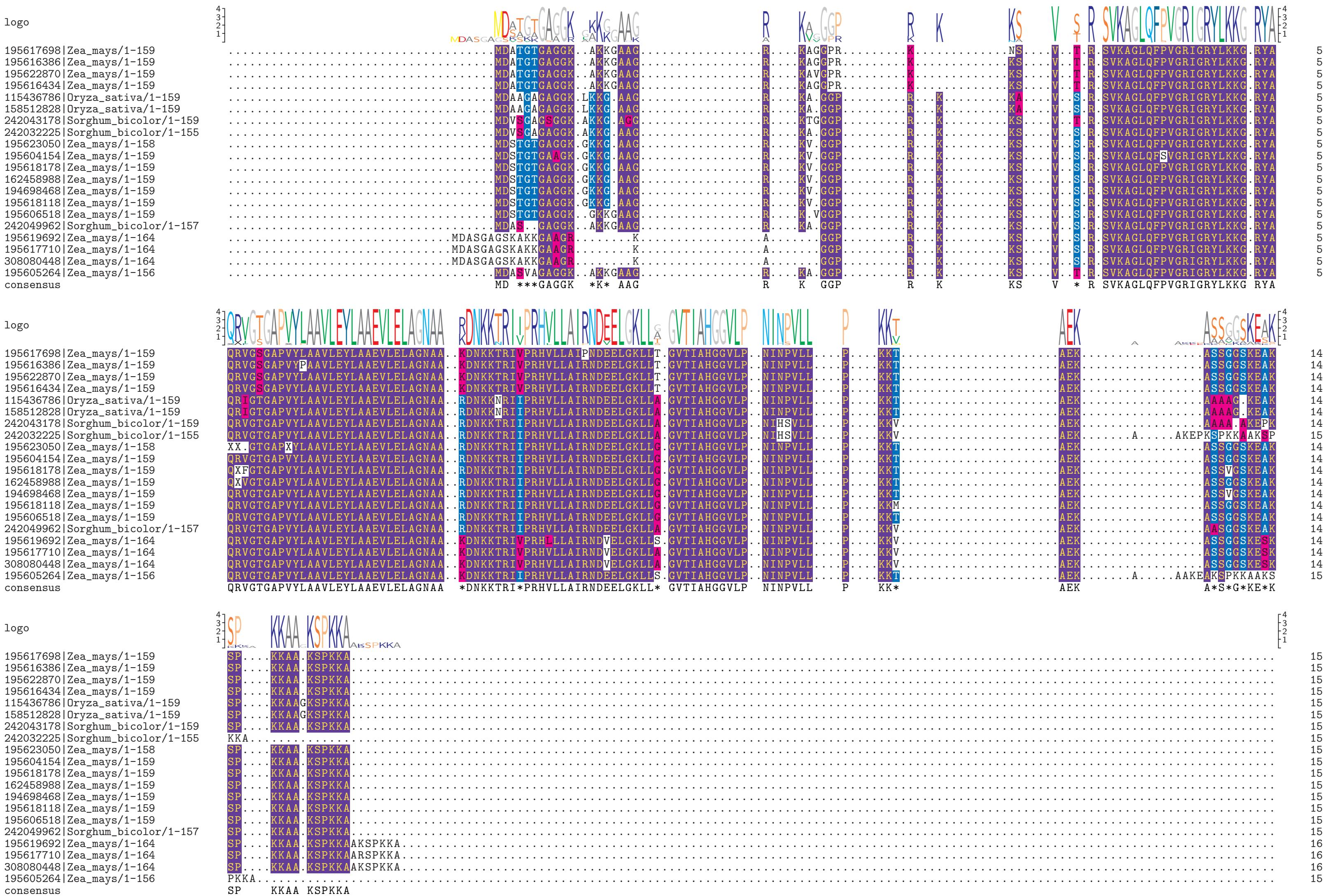


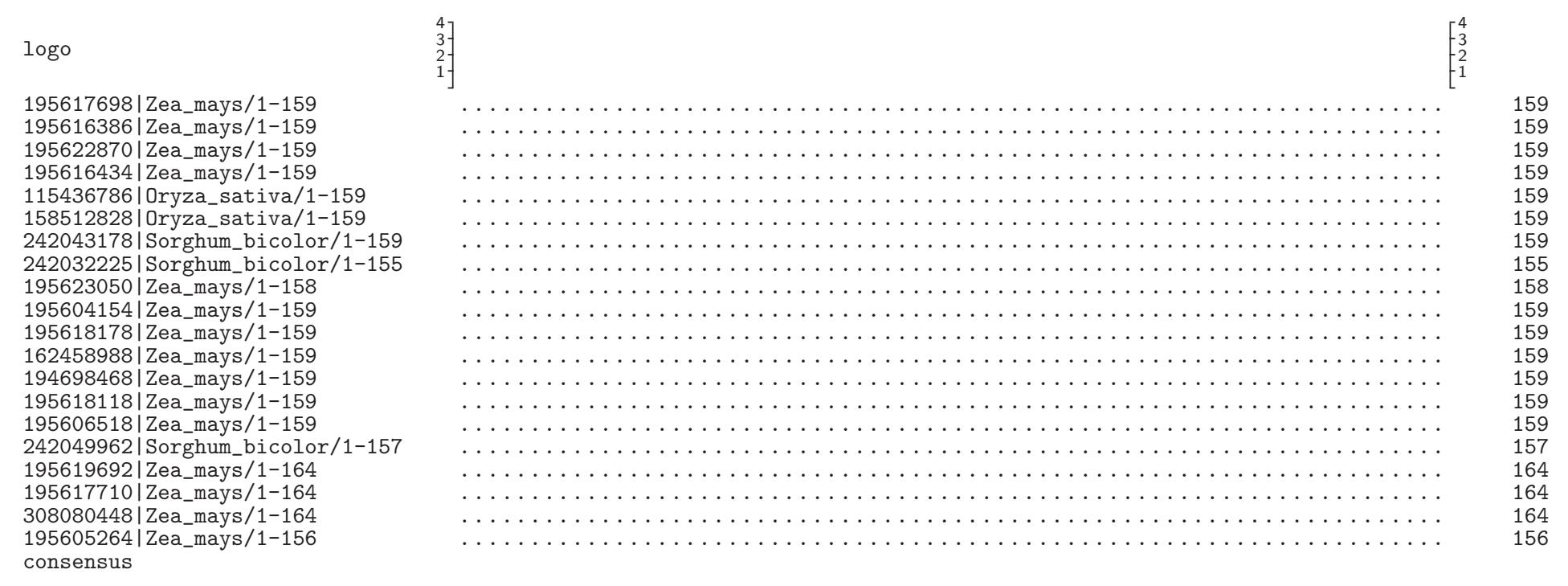


X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved

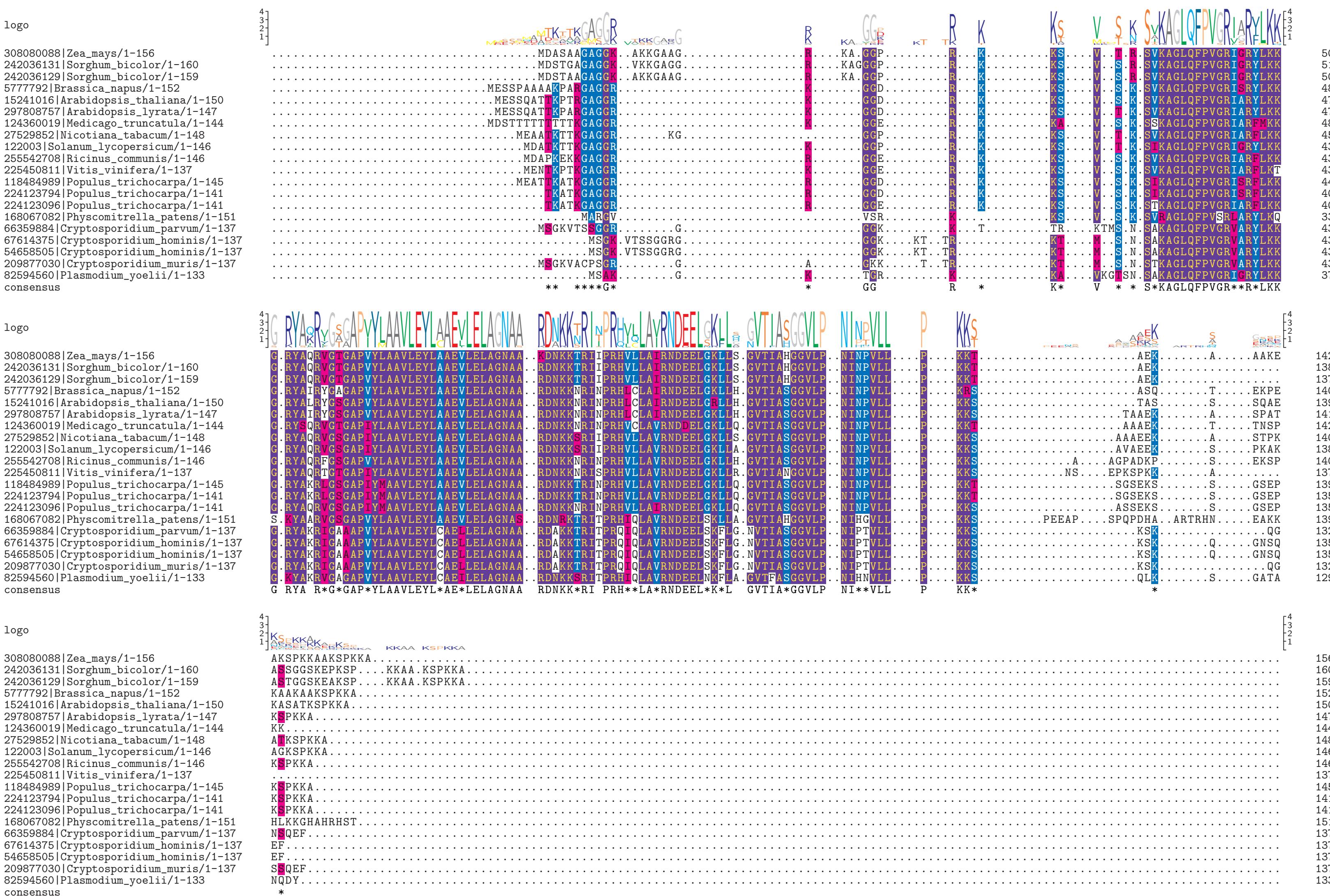


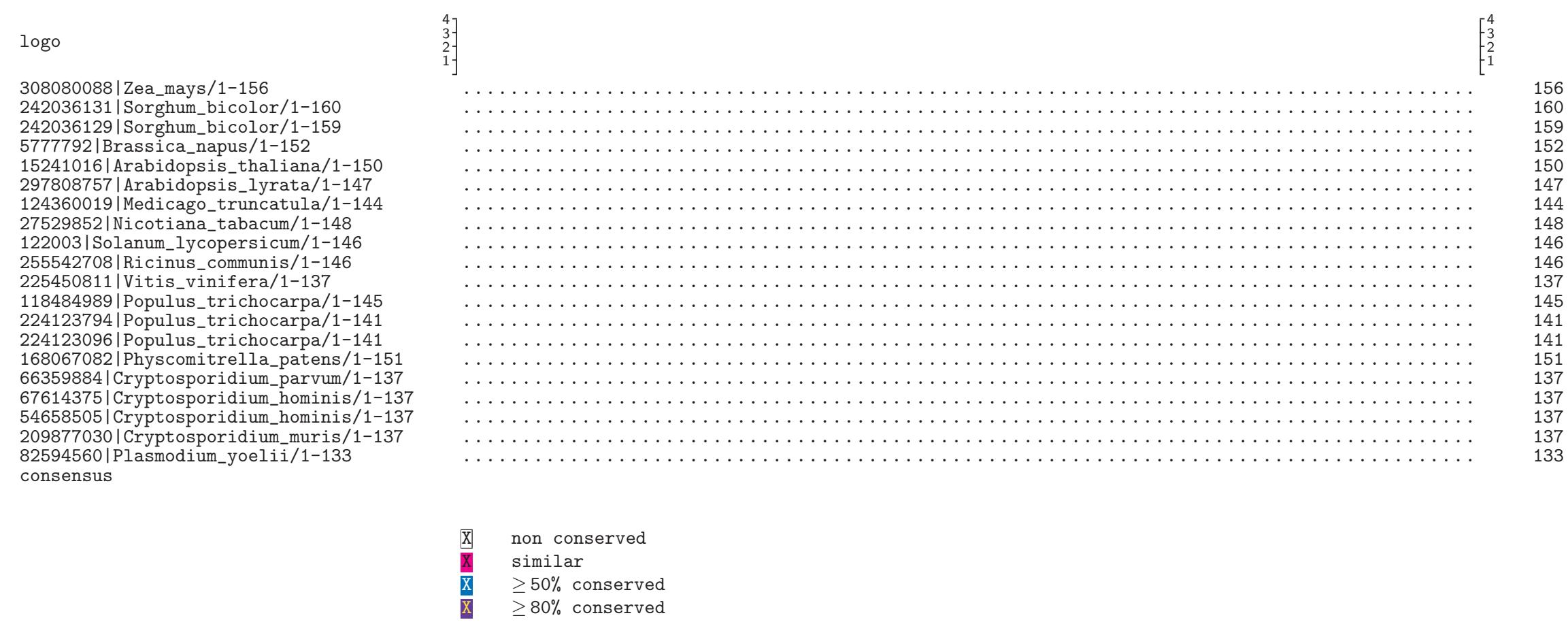


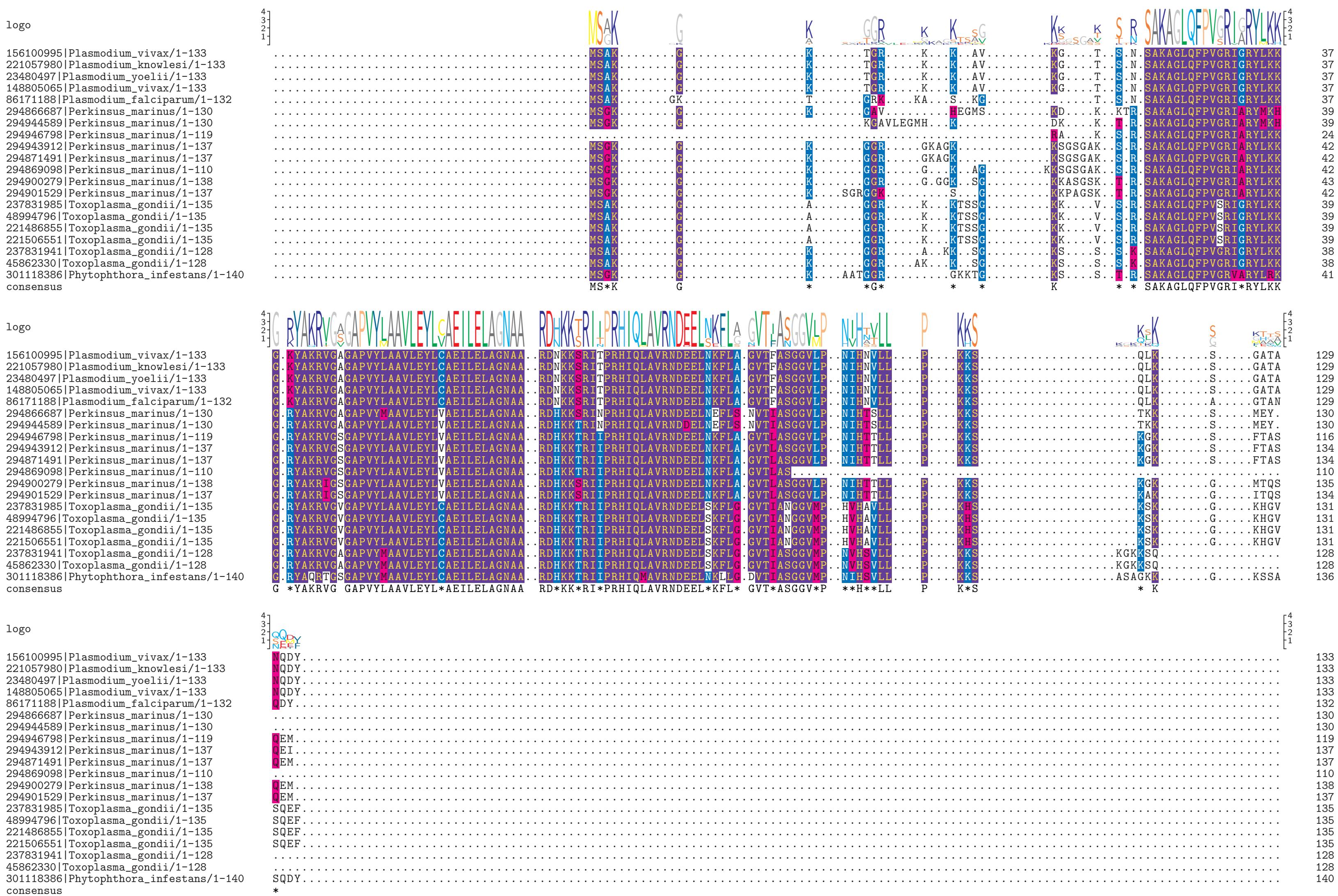


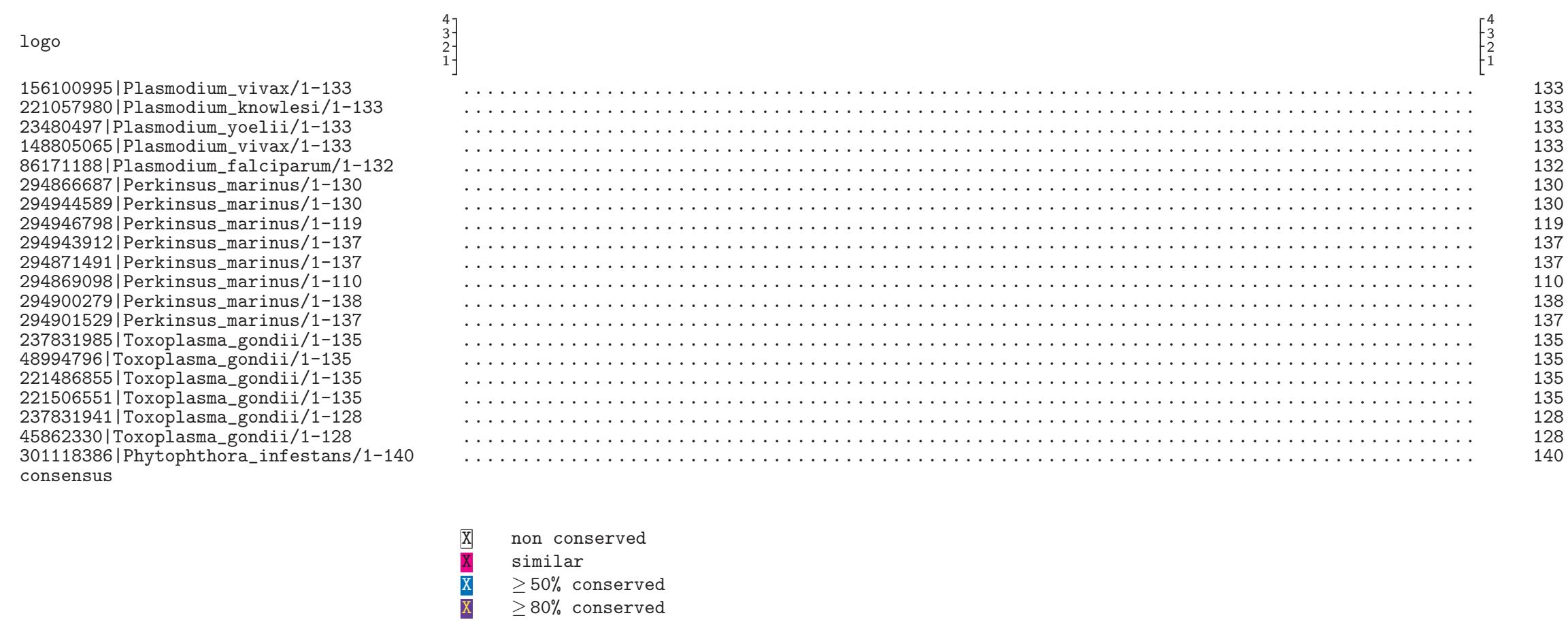


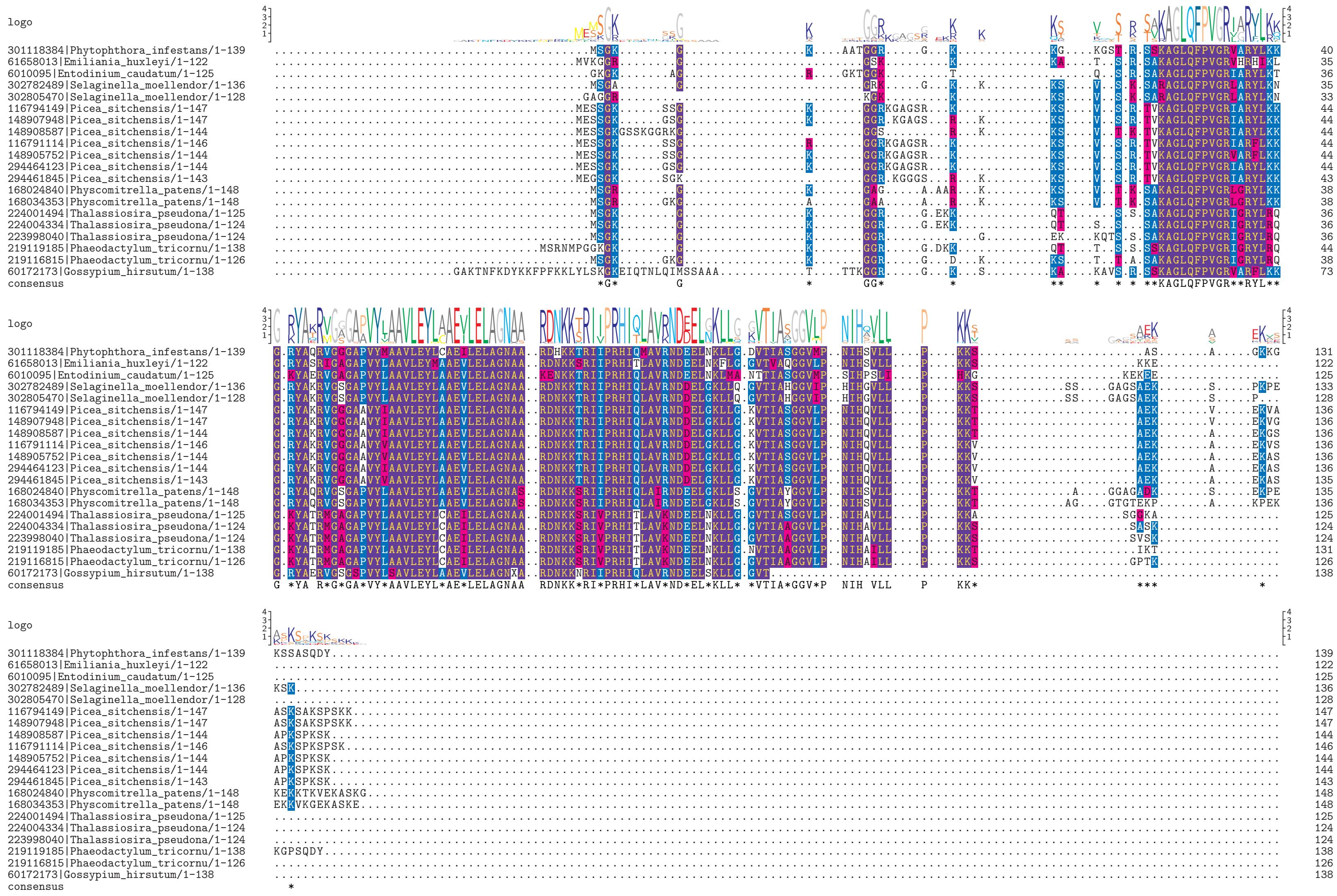
non conserved
 similar
 ≥ 50% conserved
 ≥ 80% conserved

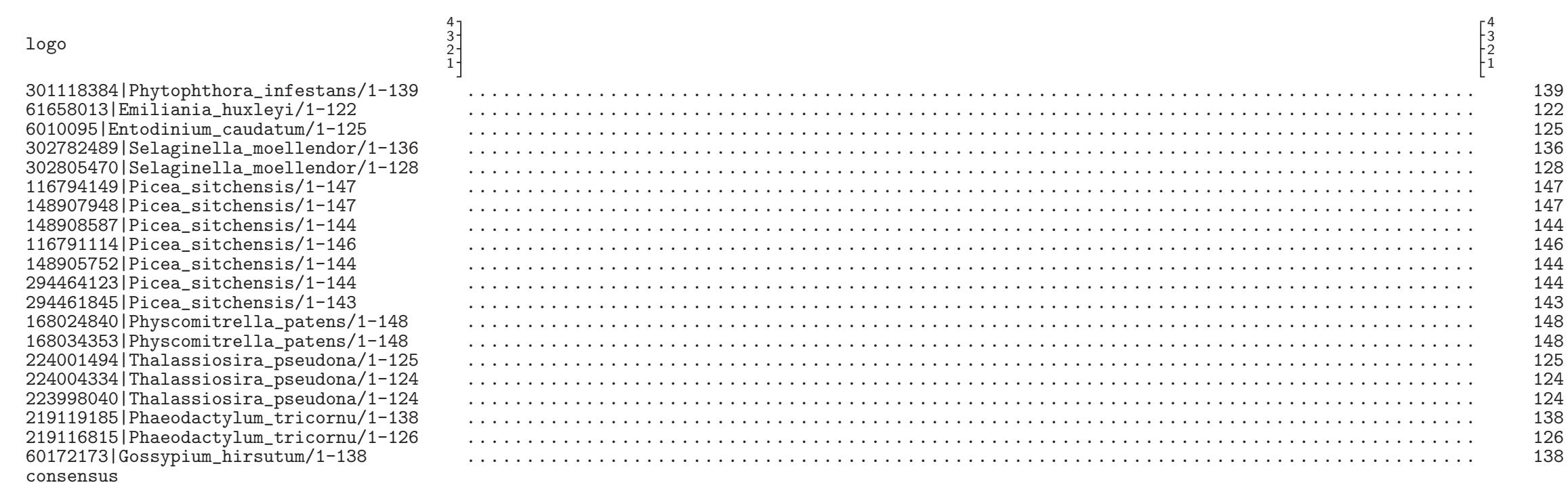




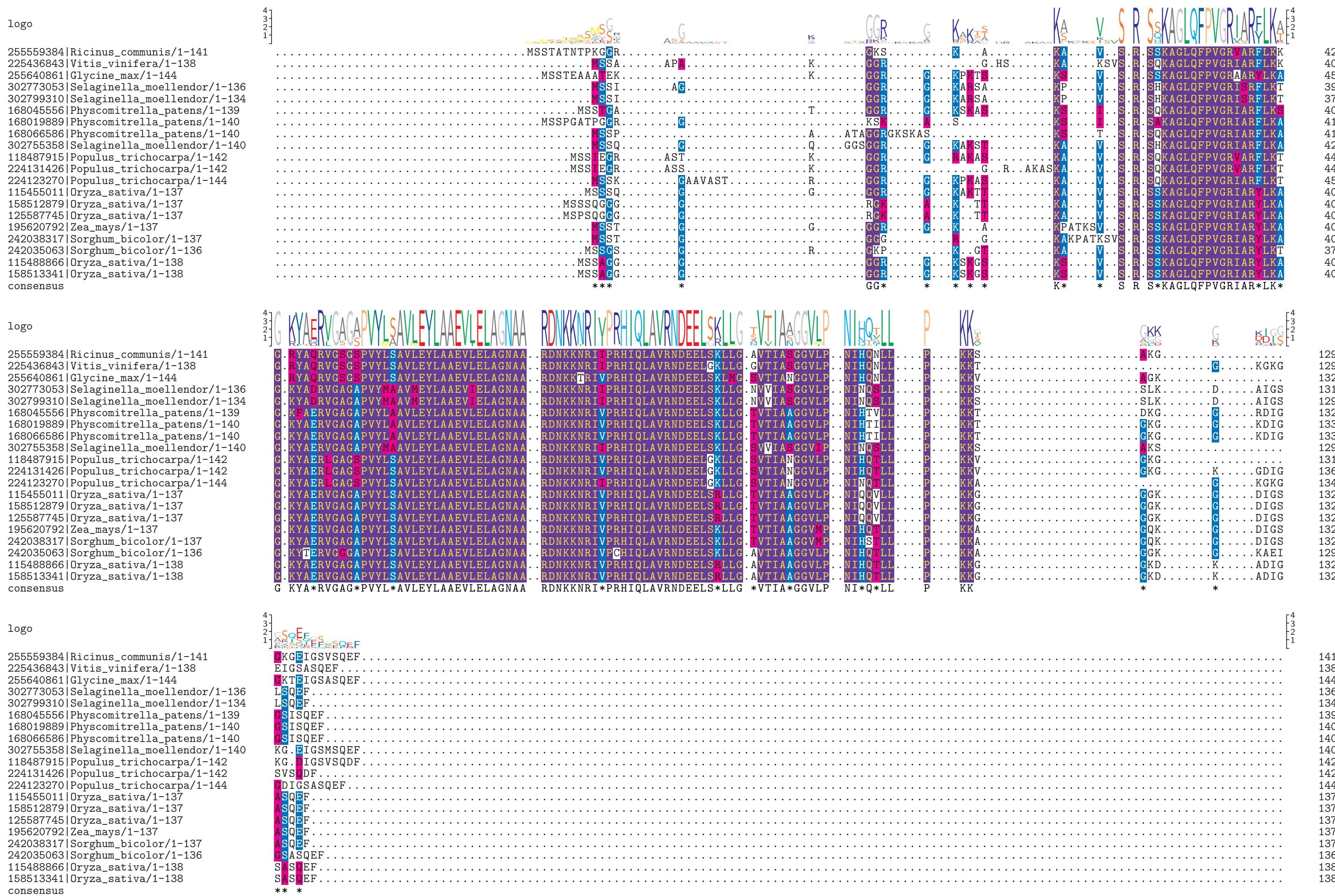


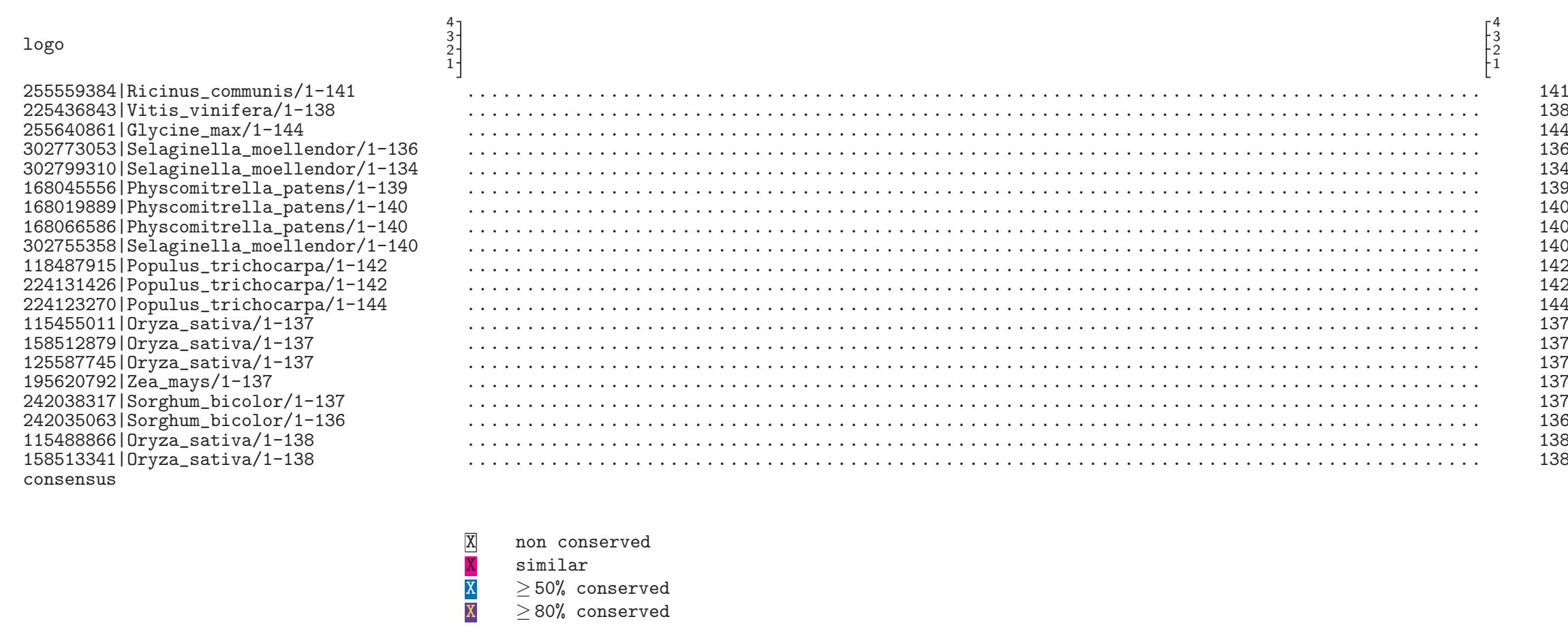


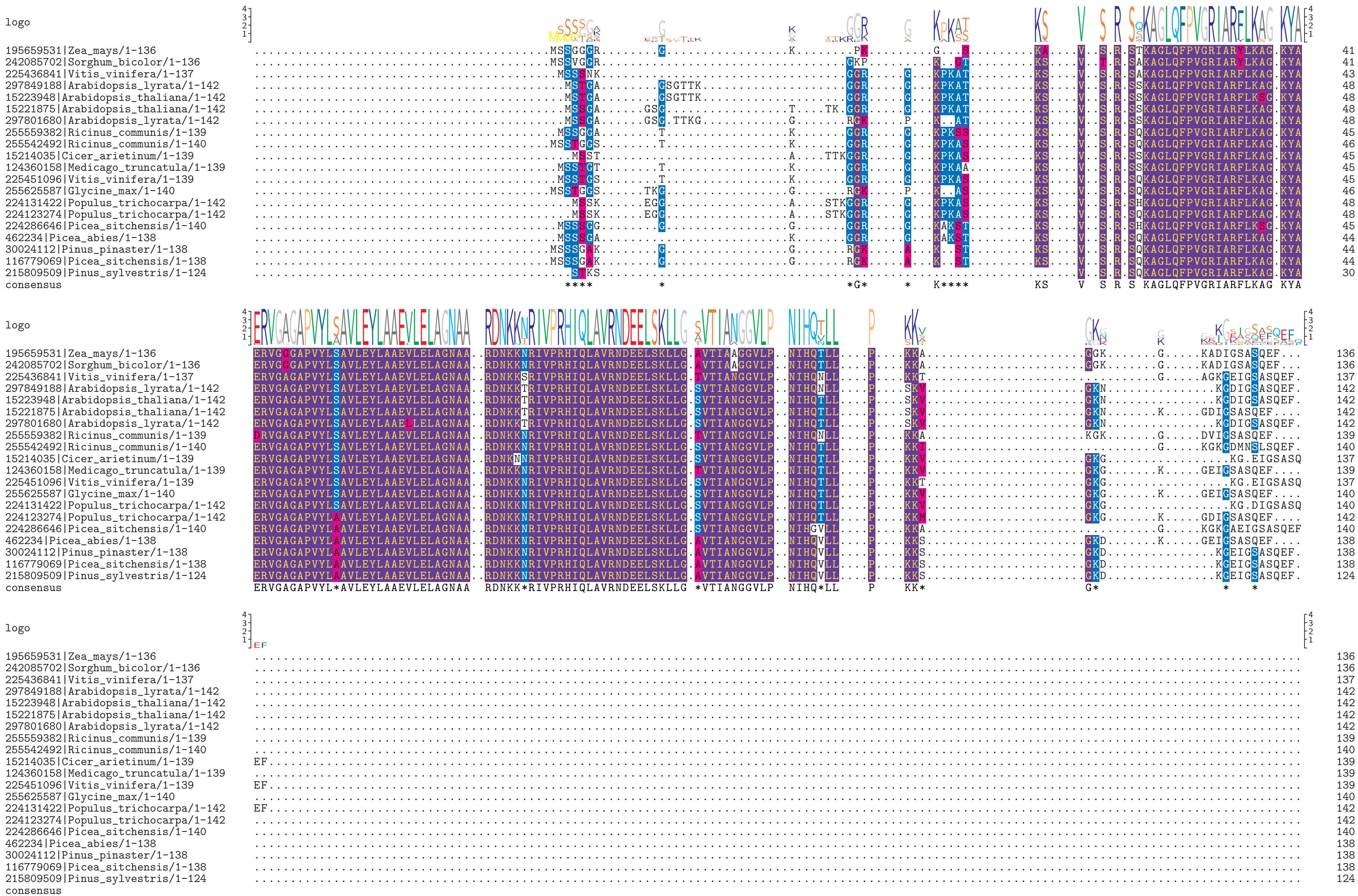


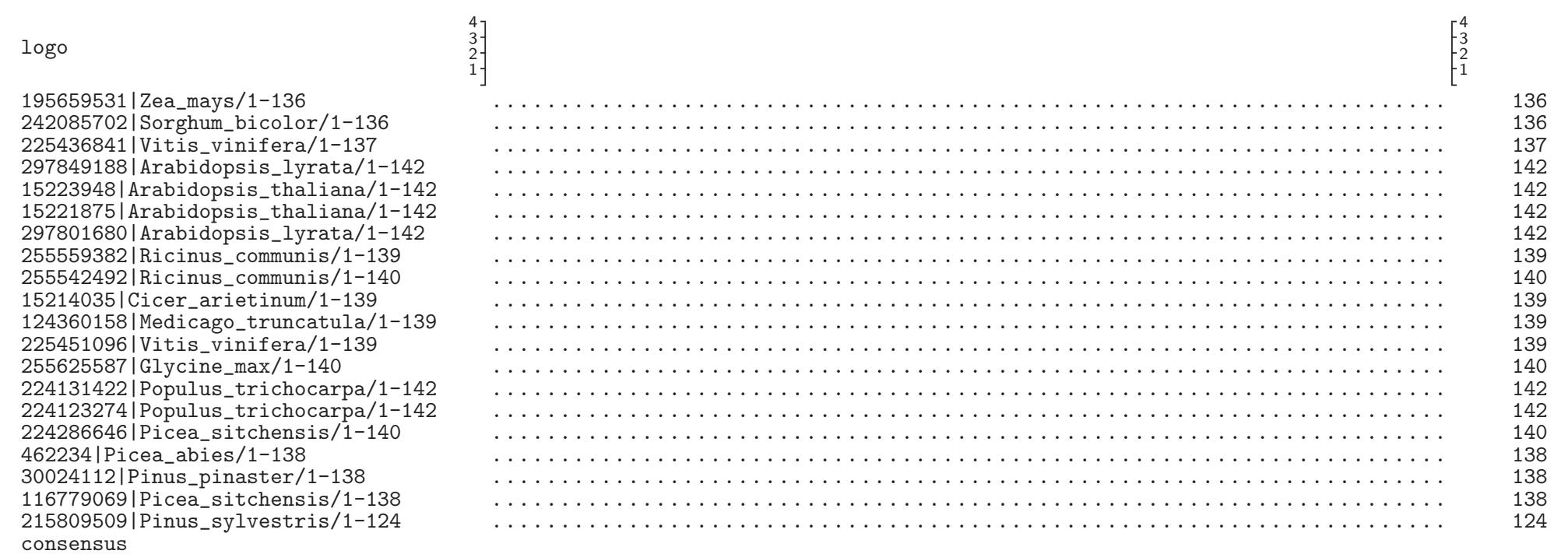


| | |
|--|-----------------|
| | non conserved |
| | similar |
| | ≥ 50% conserved |
| | ≥ 80% conserved |

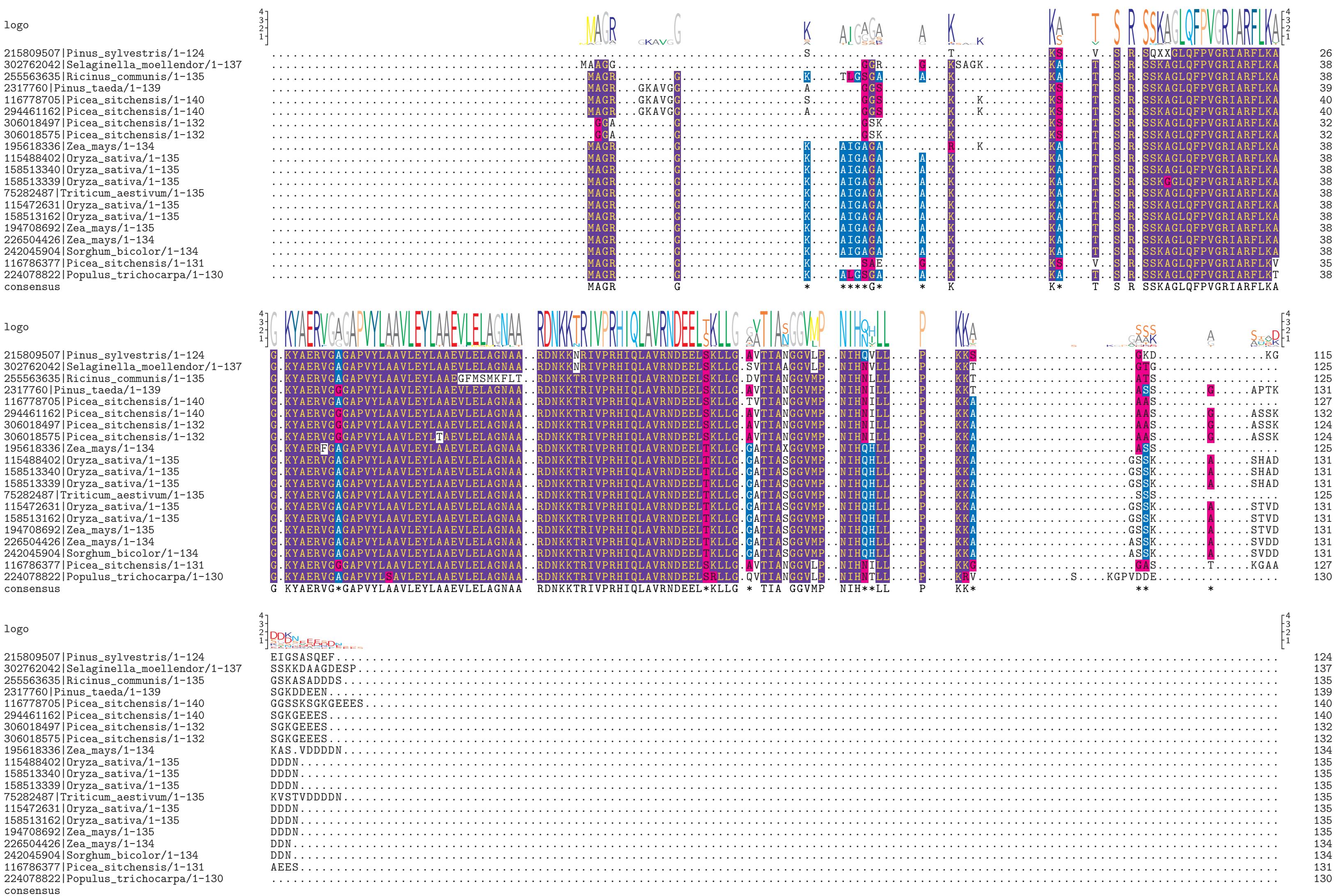


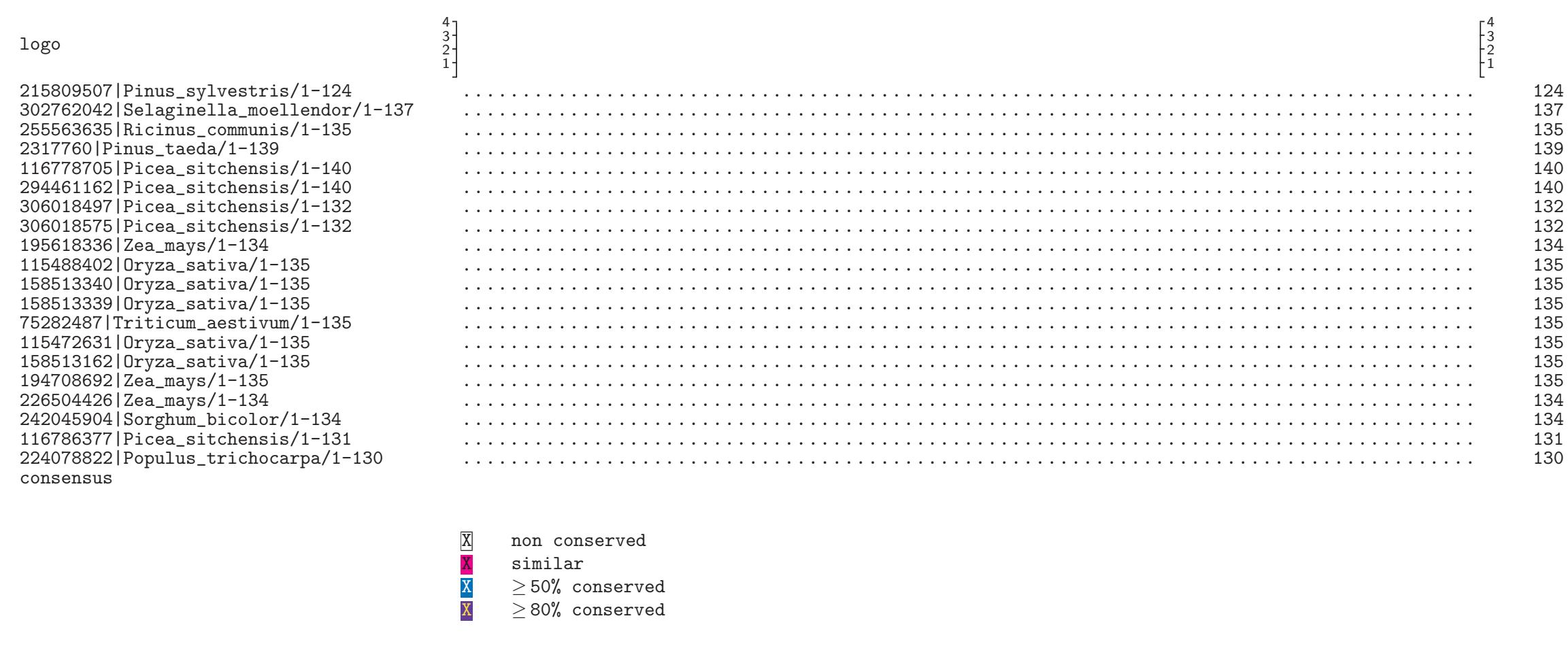


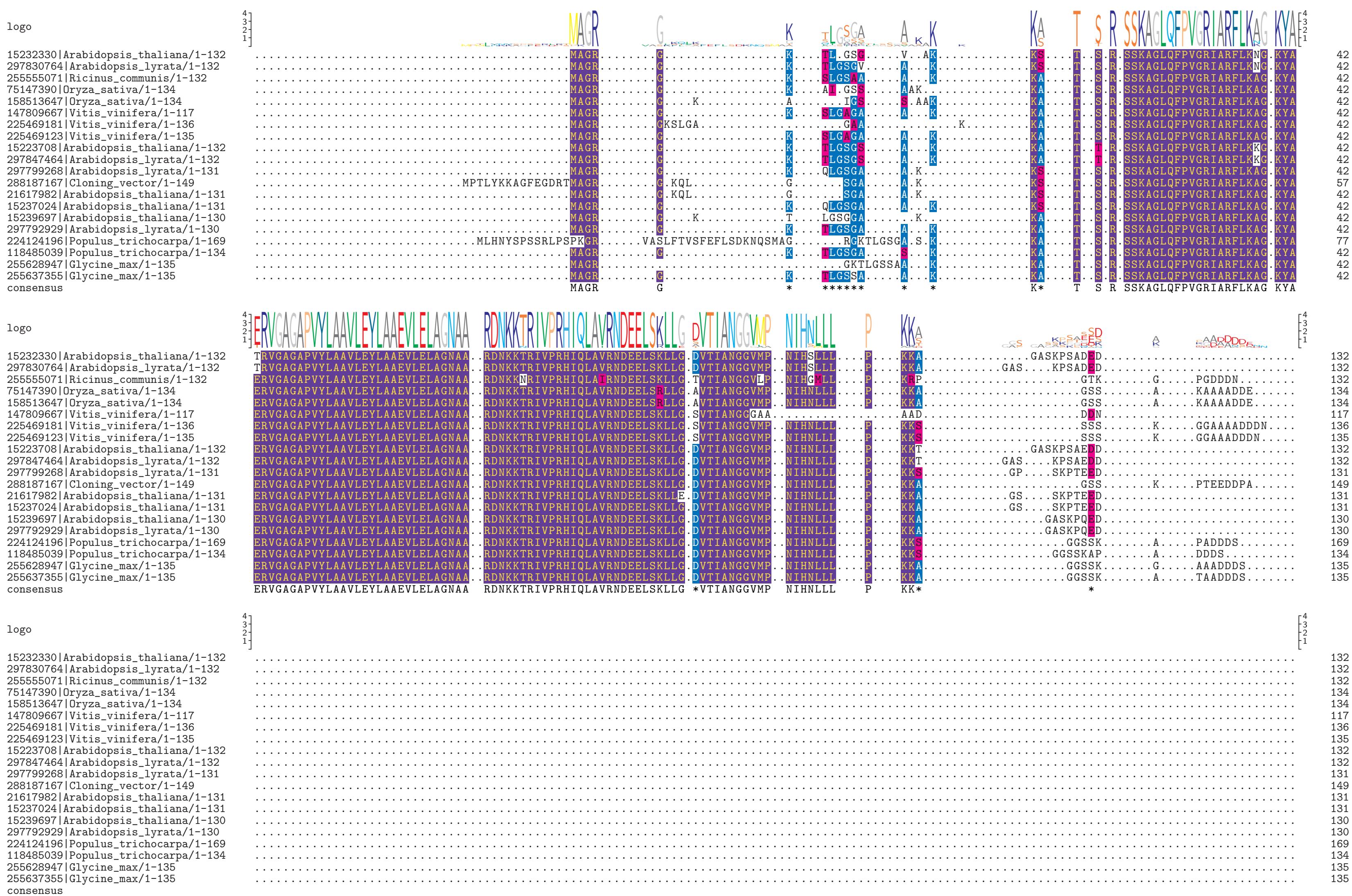


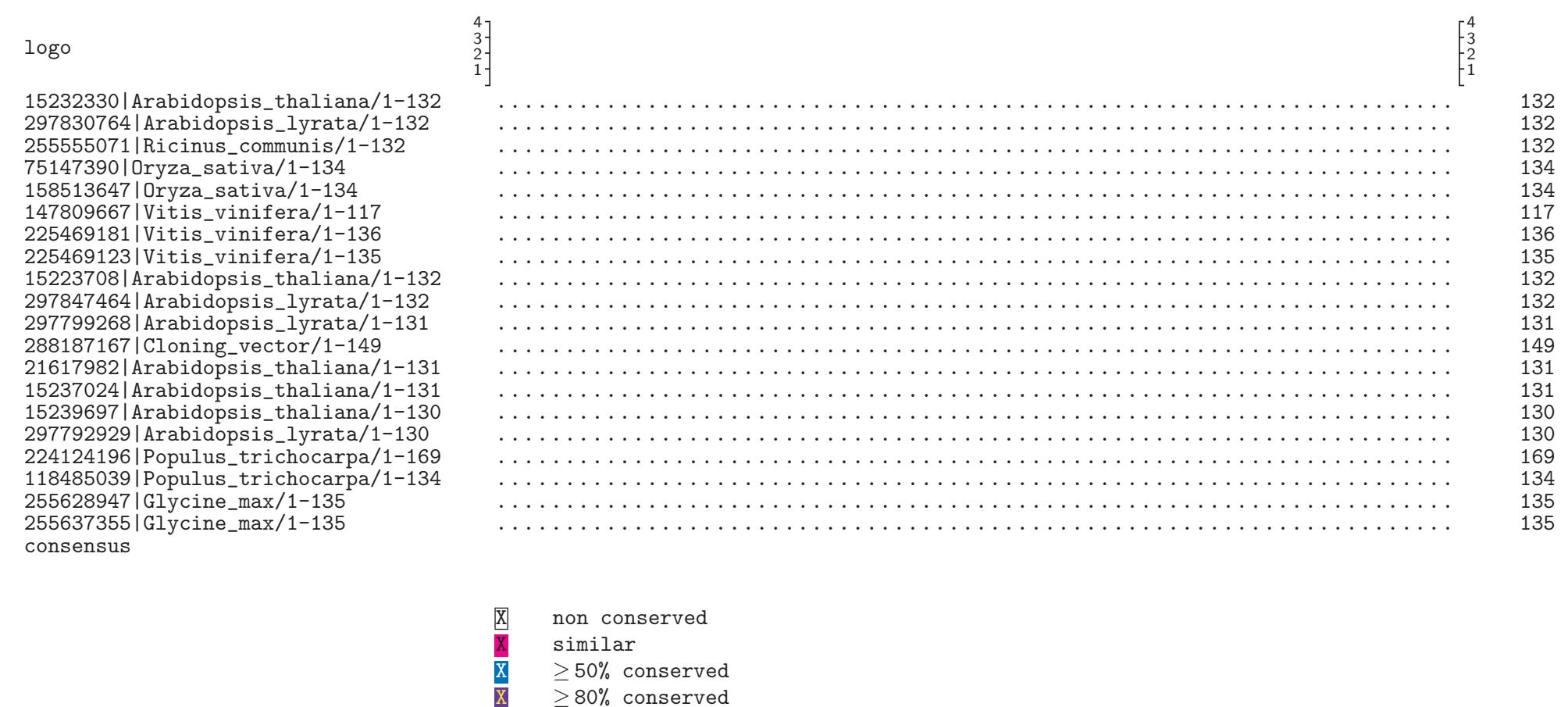


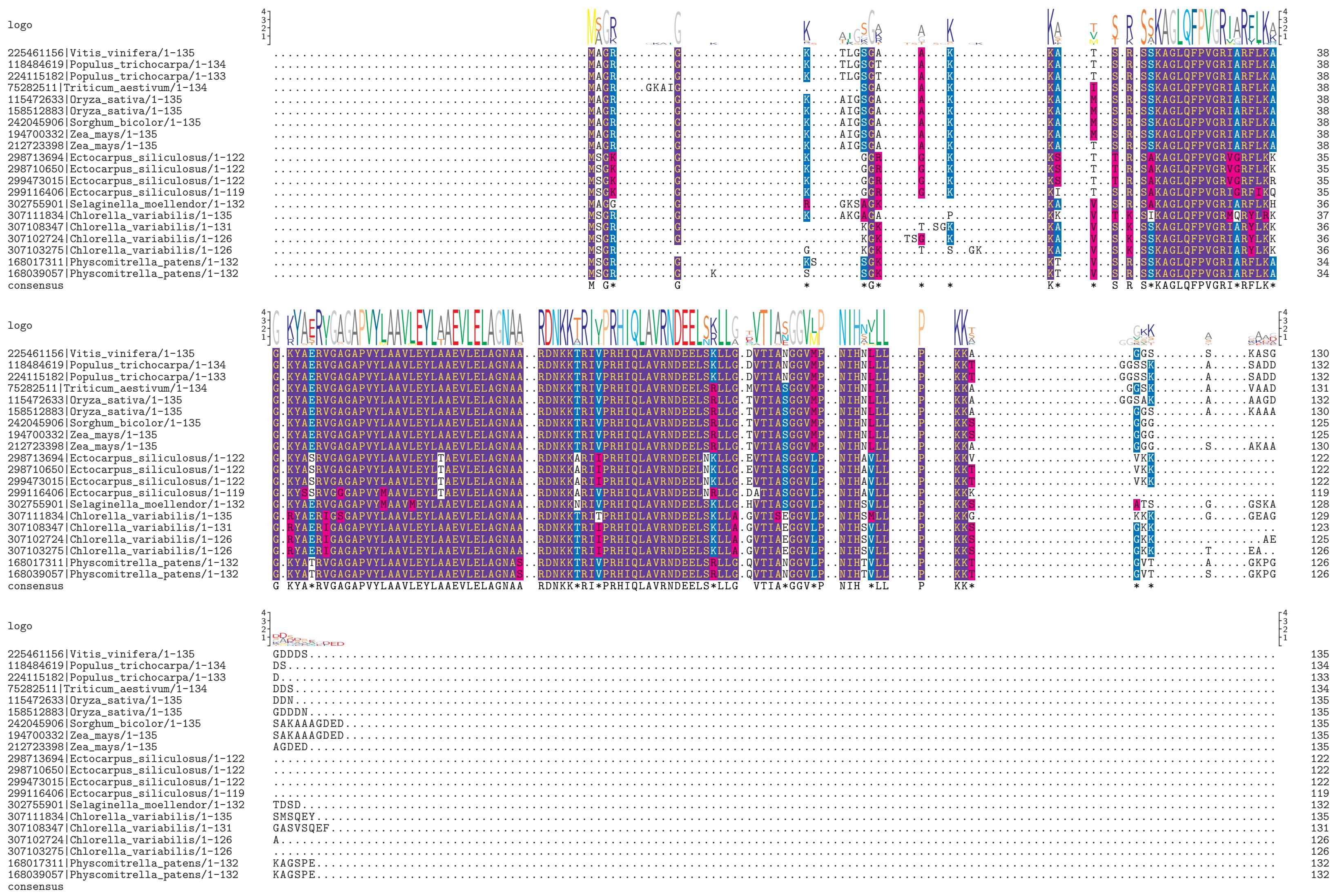
non conserved
 similar
 ≥ 50% conserved
 ≥ 80% conserved

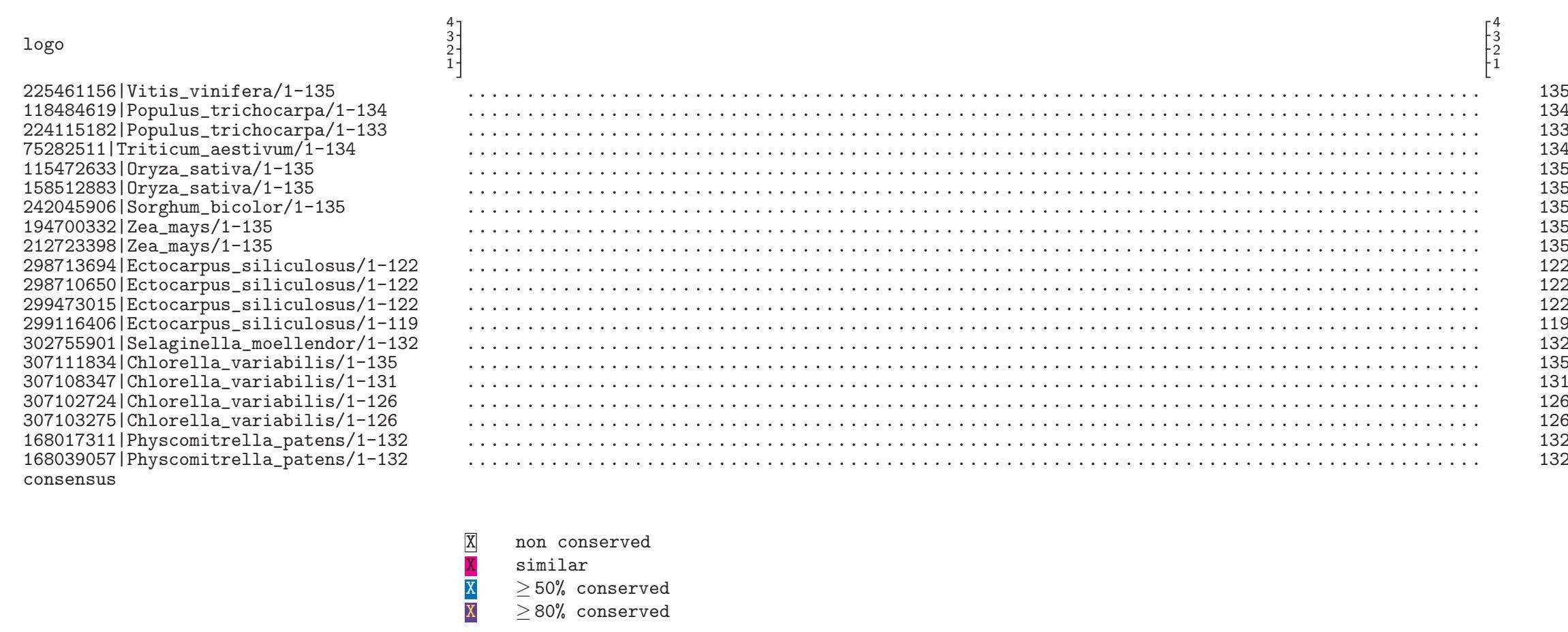


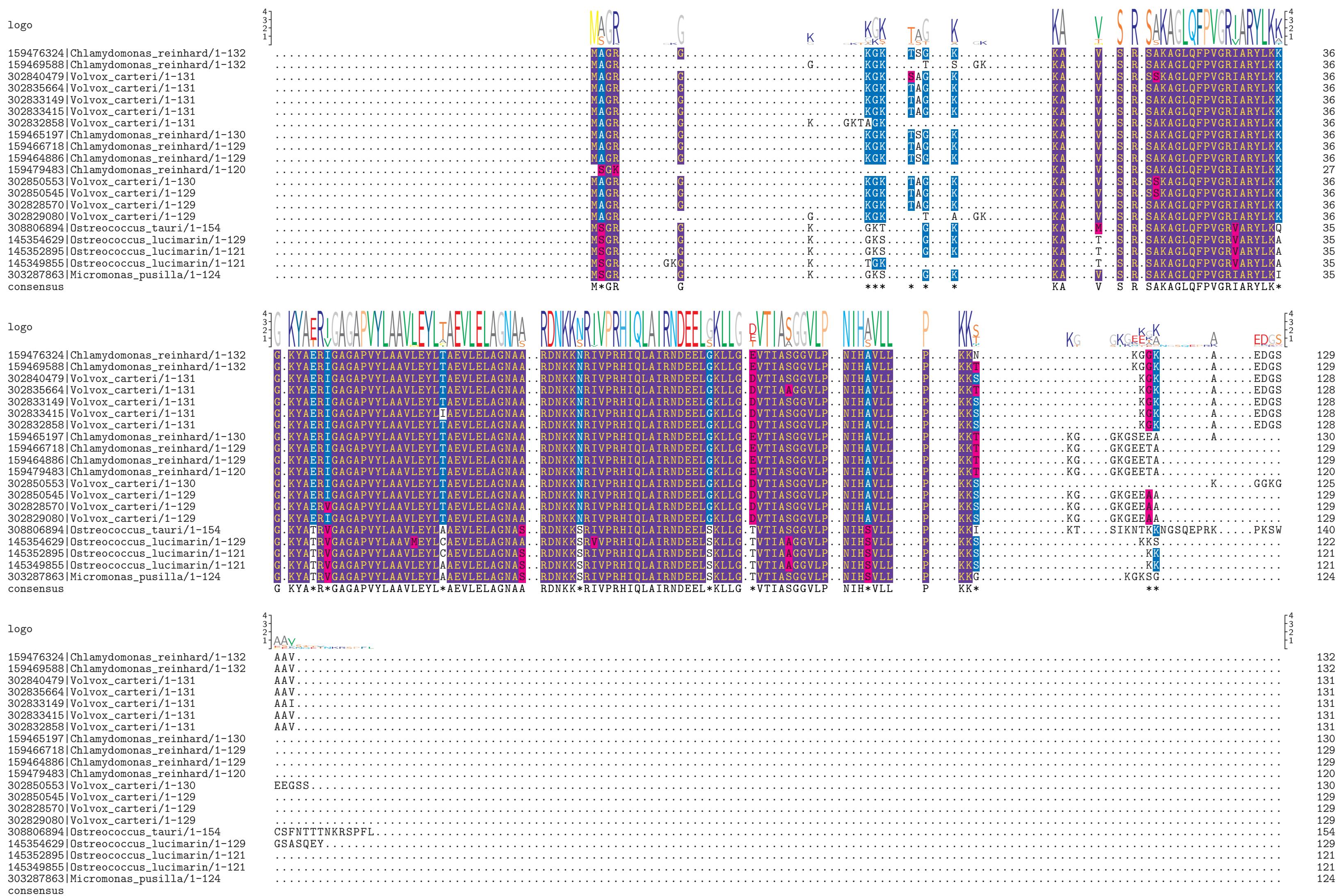


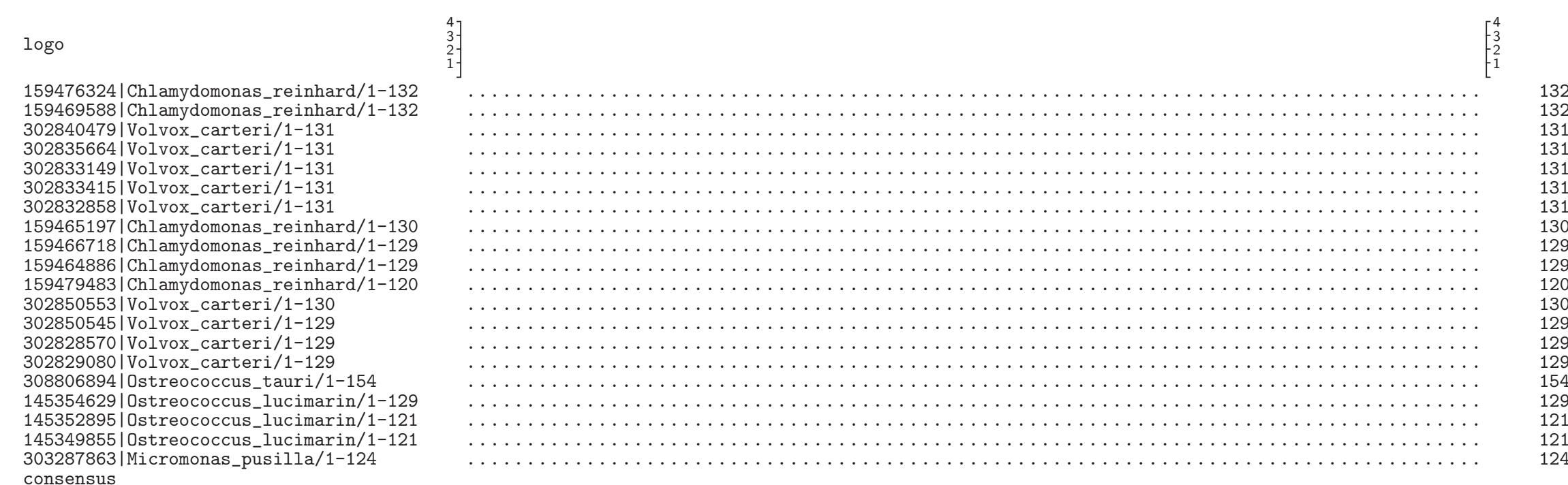




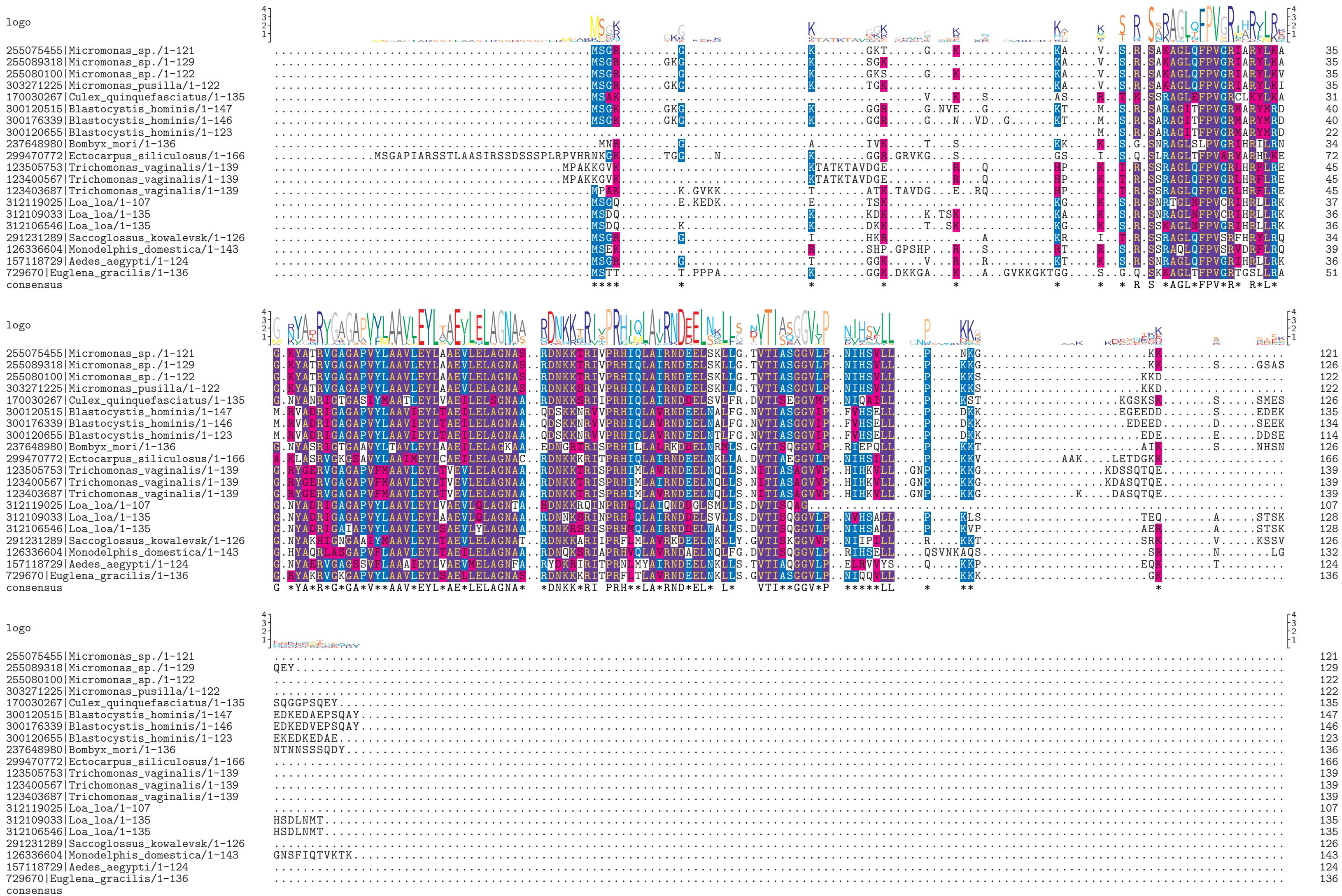


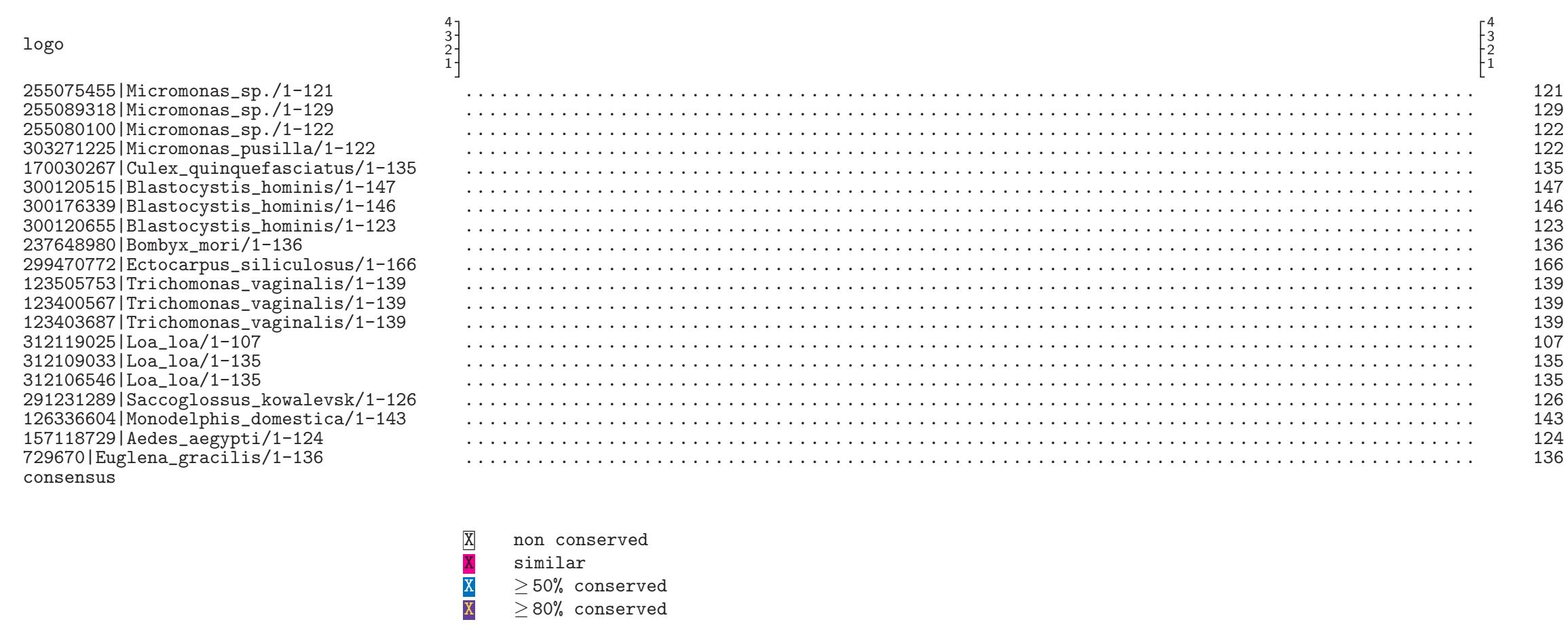


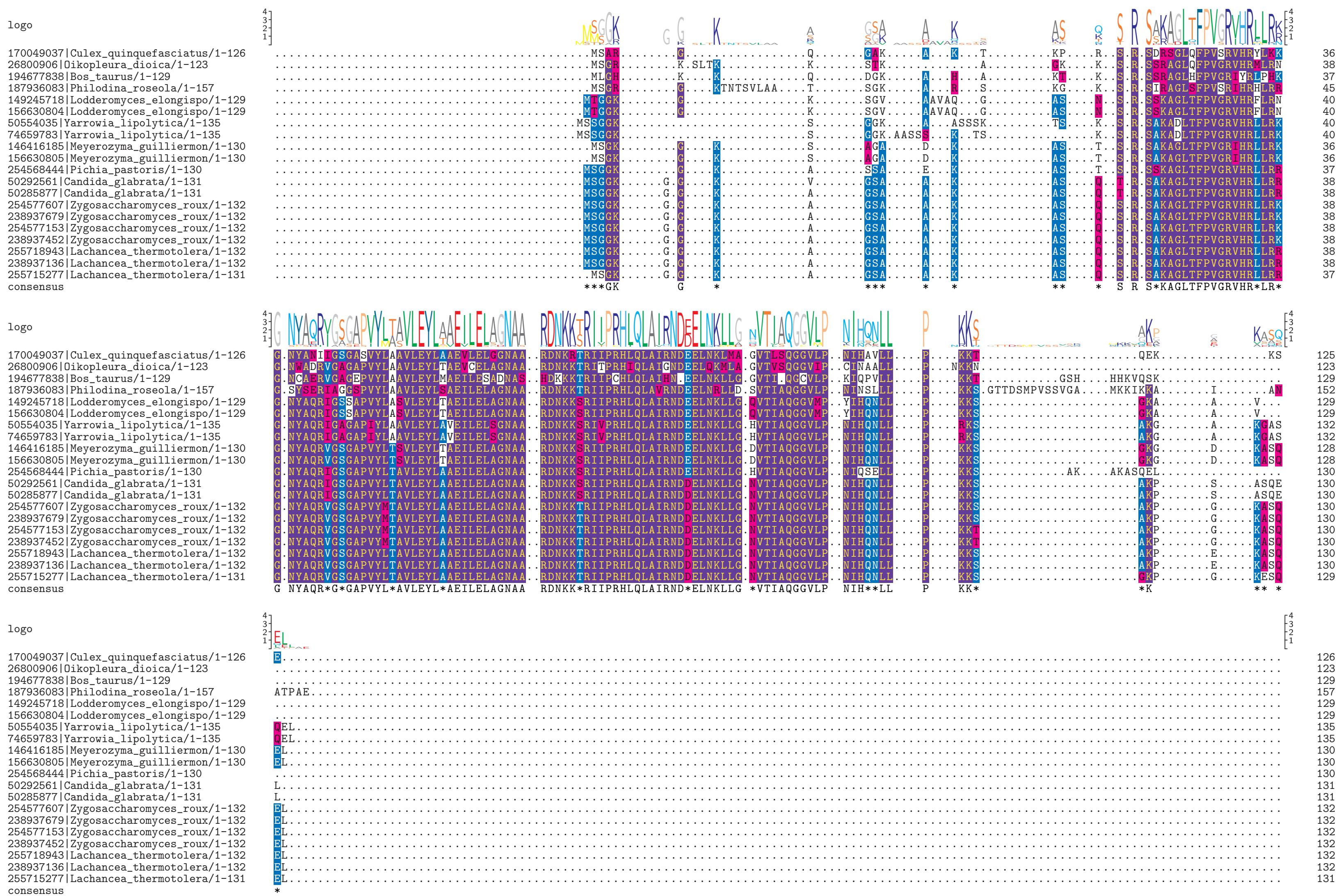


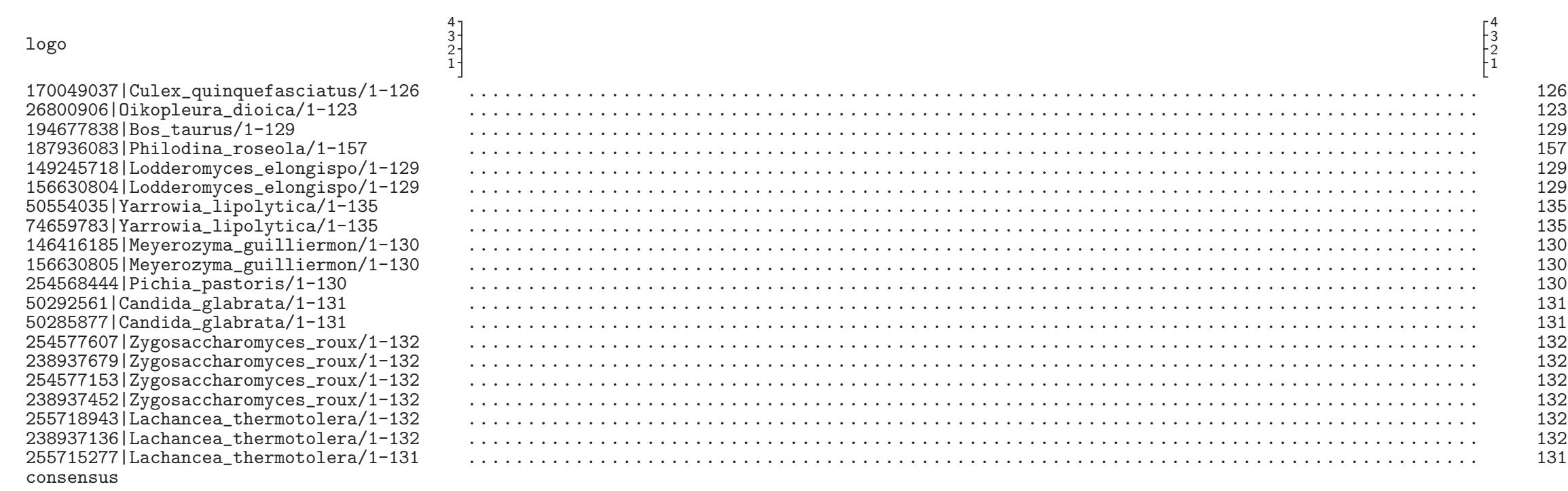


█ non conserved
 █ similar
 █ ≥ 50% conserved
 █ ≥ 80% conserved

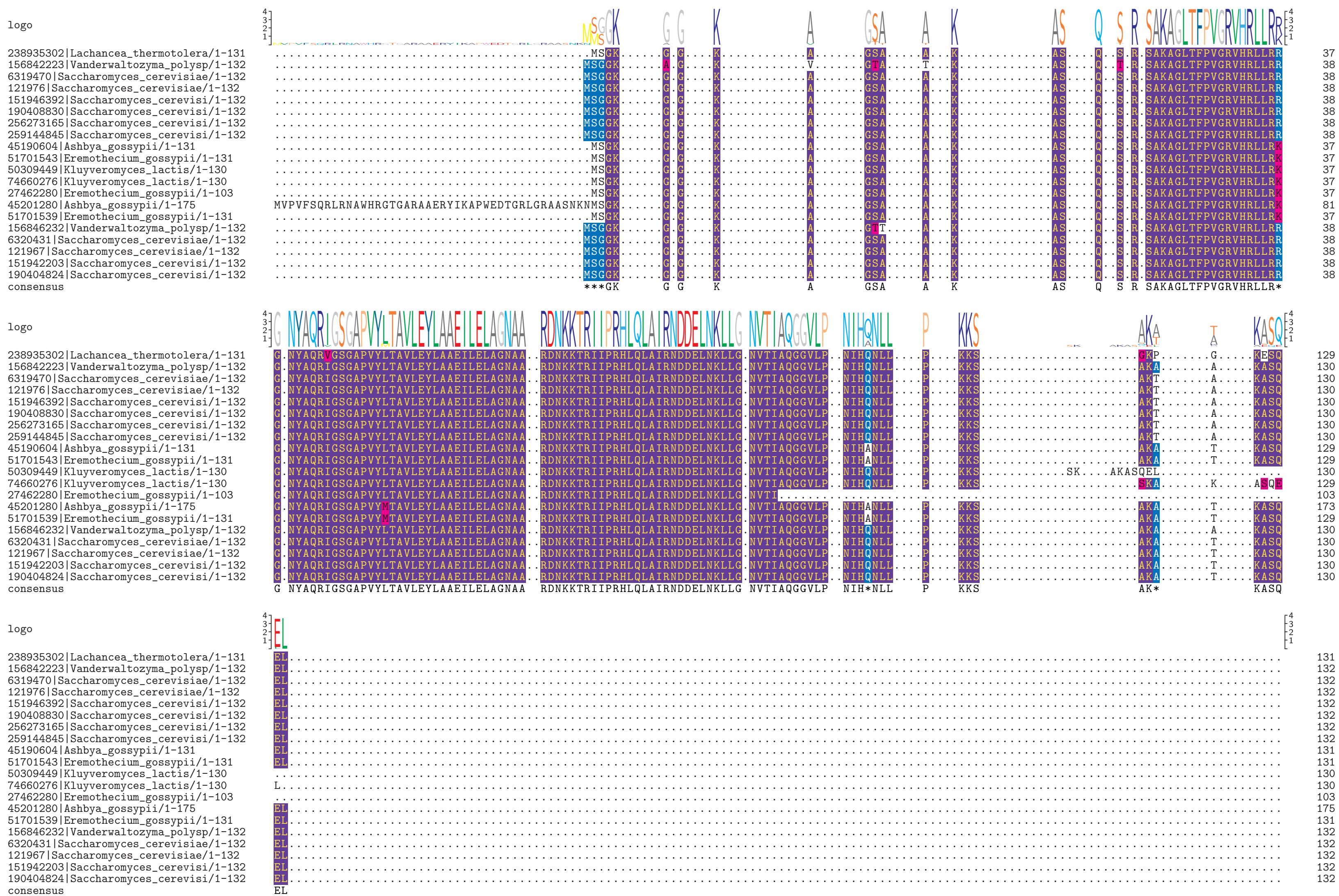


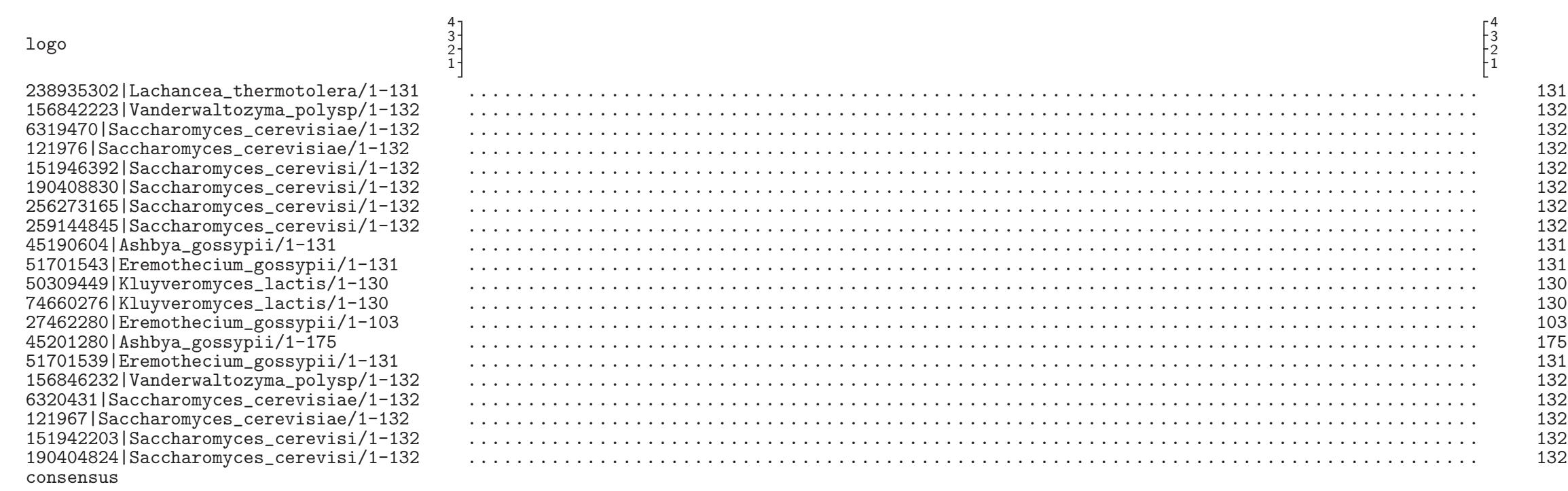




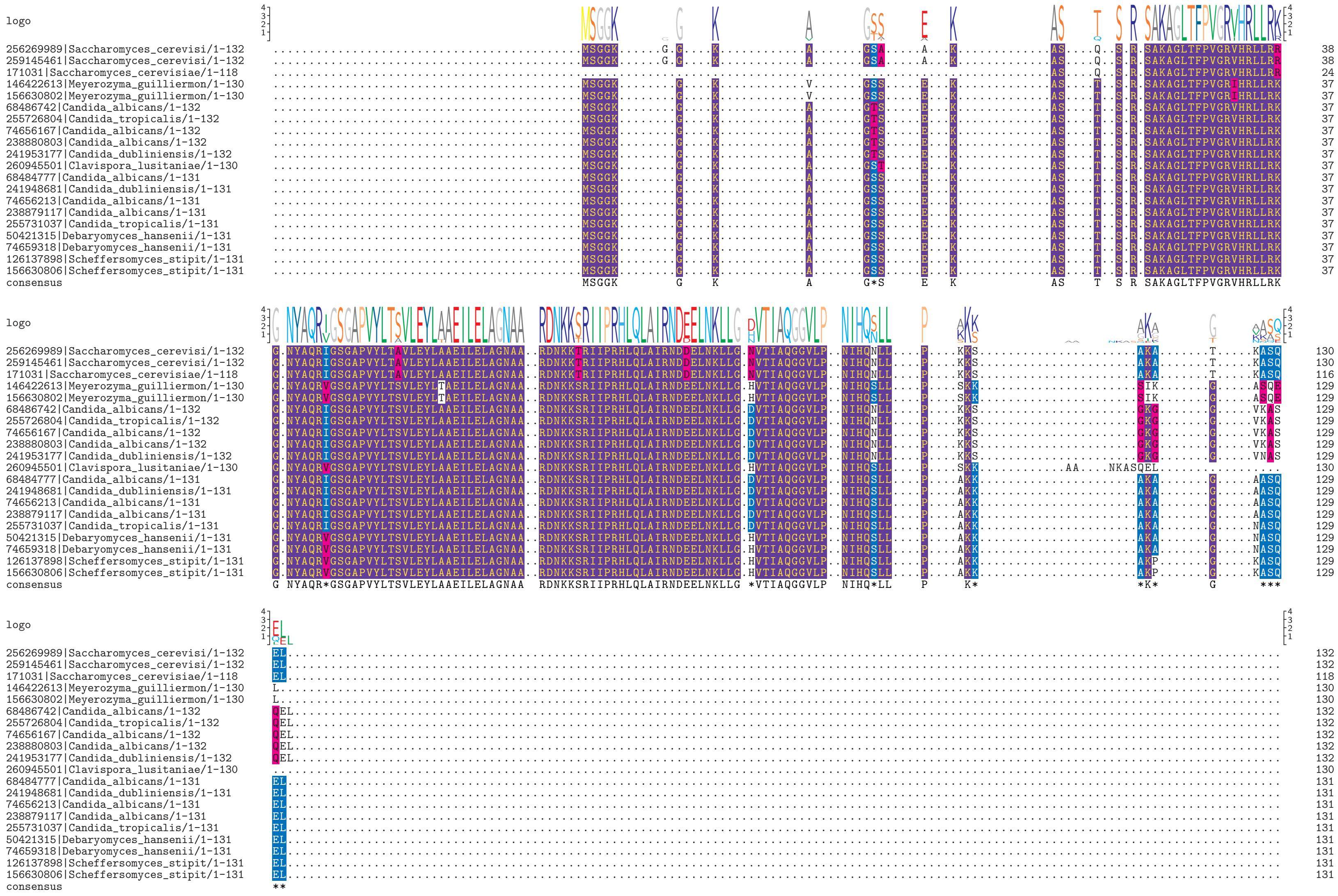


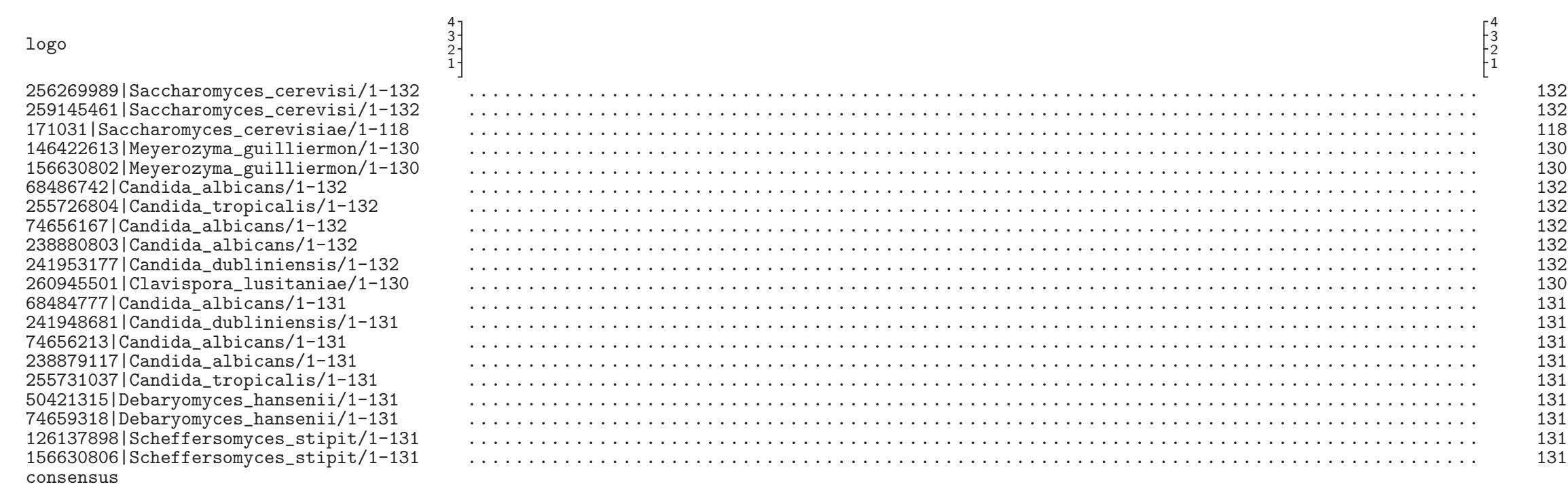
non conserved
 similar
 ≥ 50% conserved
 ≥ 80% conserved



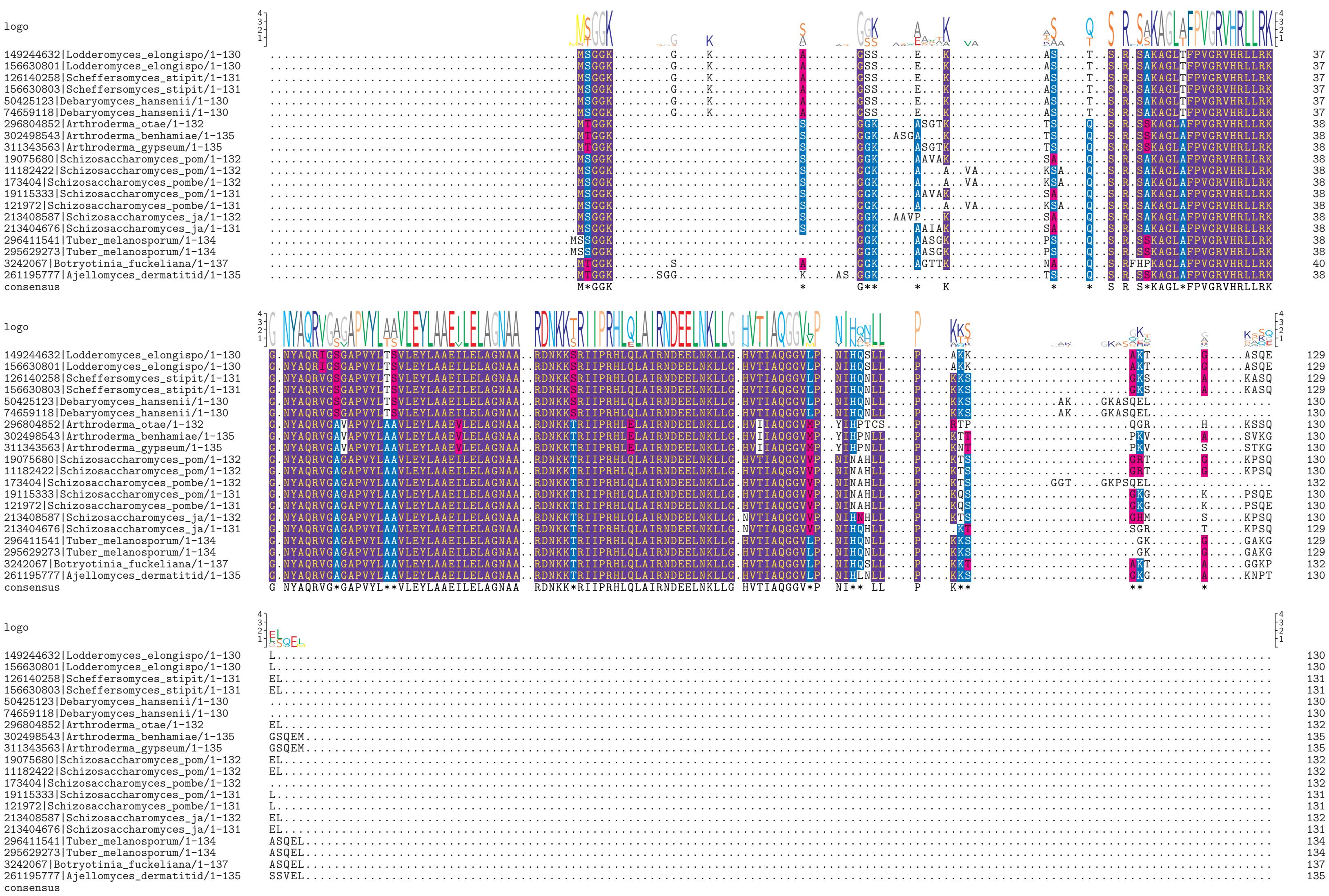


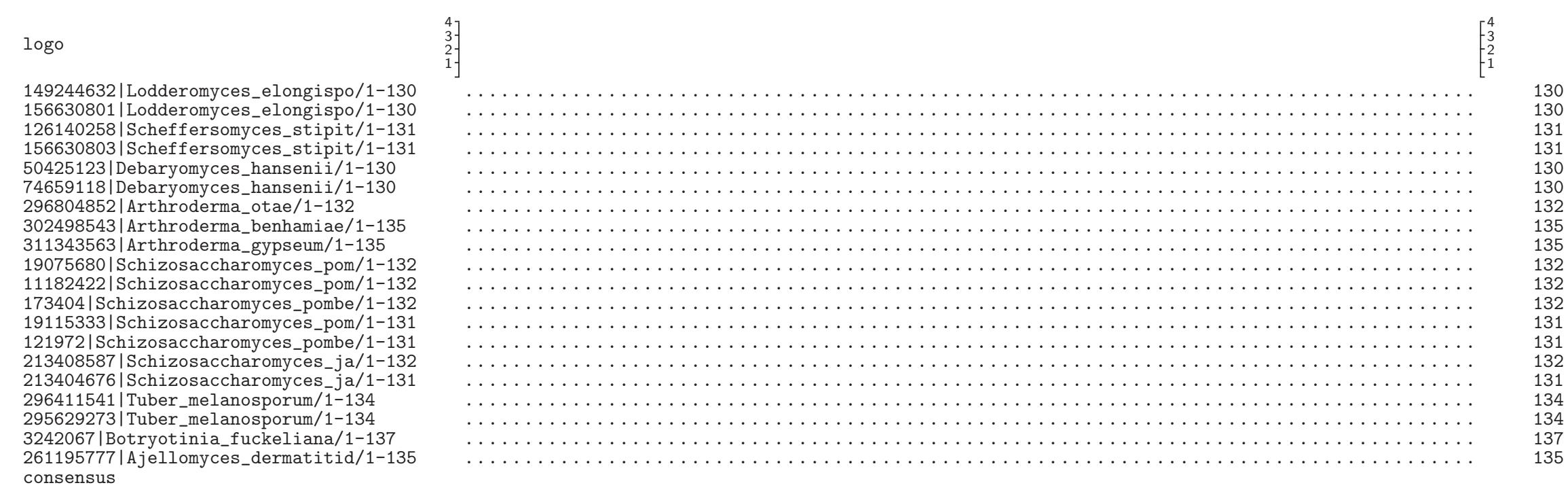
non conserved
 similar
 ≥ 50% conserved
 ≥ 80% conserved



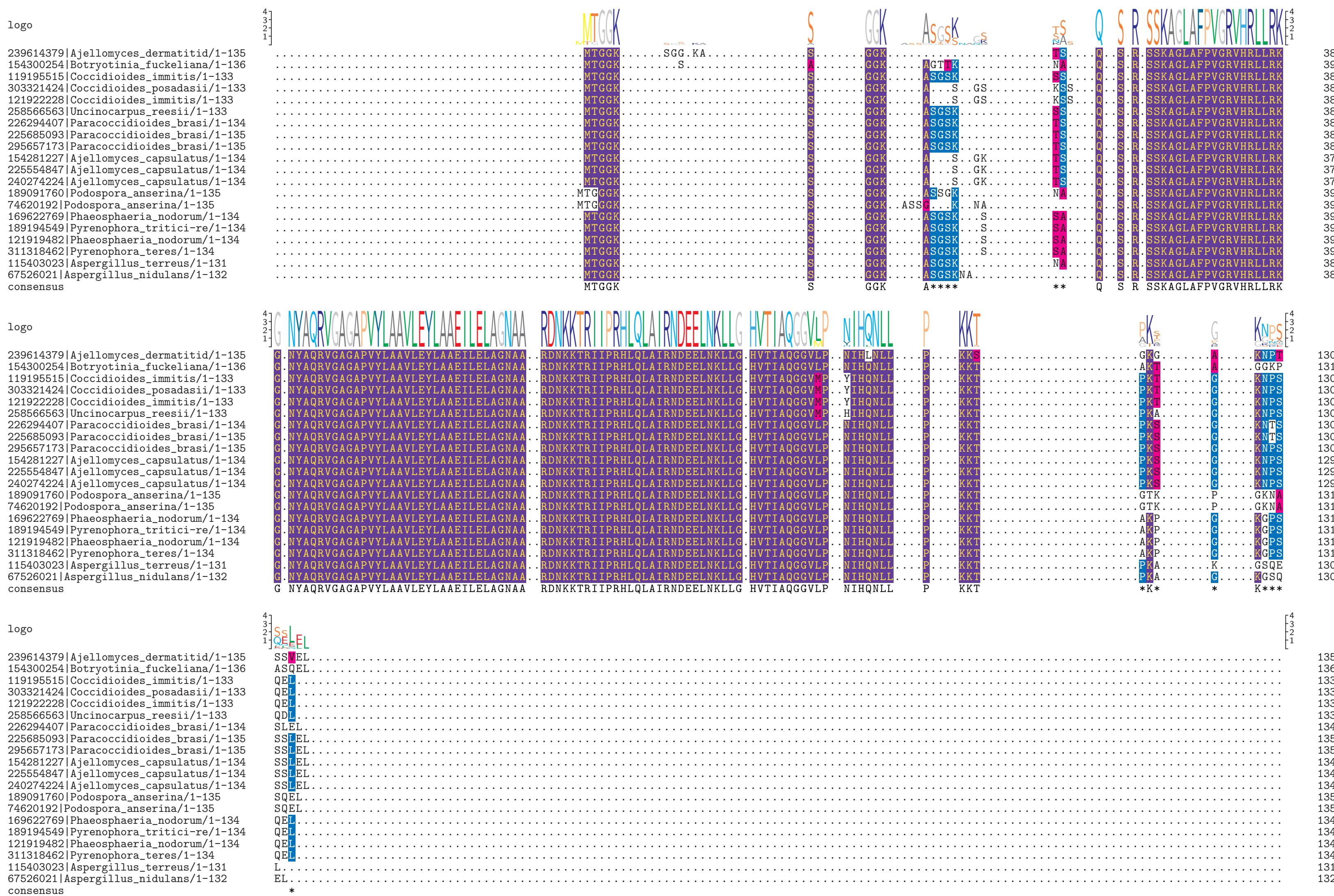


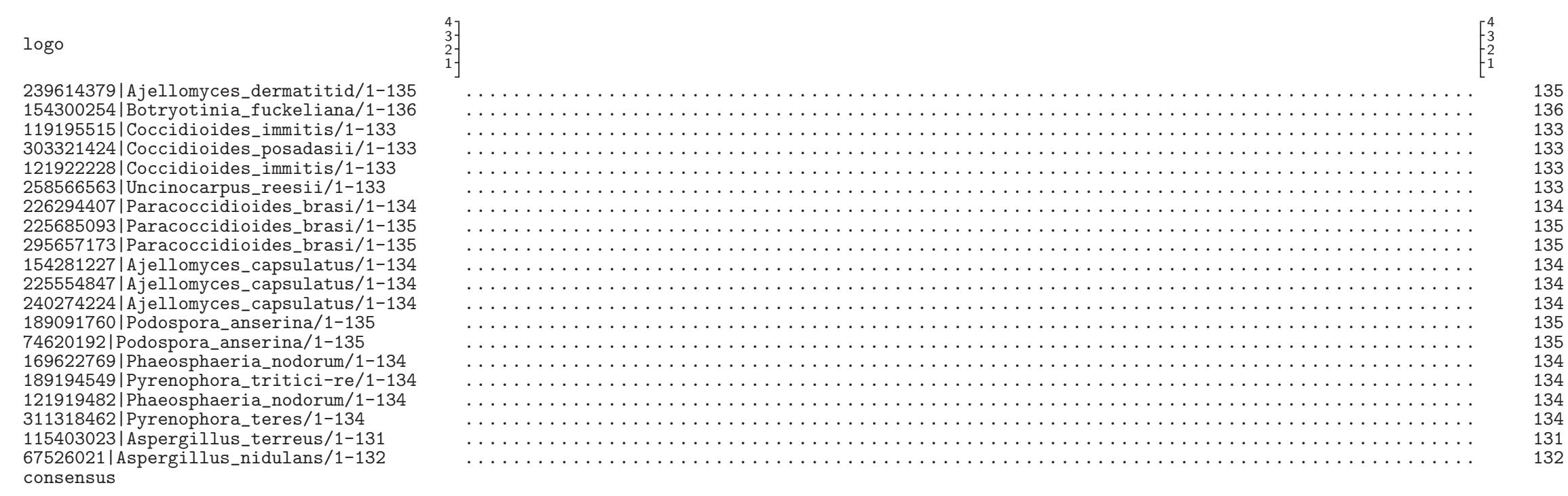
█ non conserved
█ similar
█ ≥ 50% conserved
█ ≥ 80% conserved



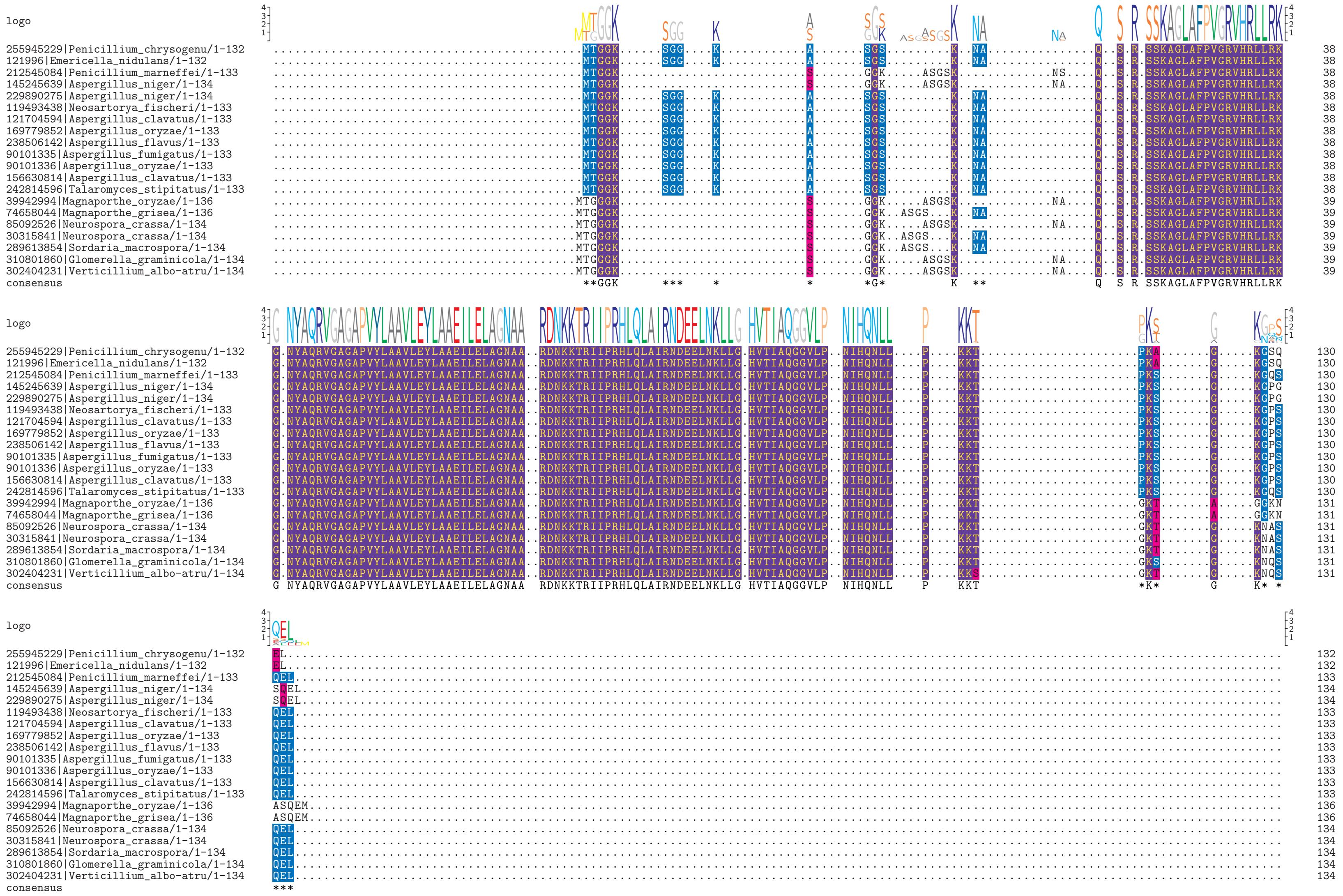


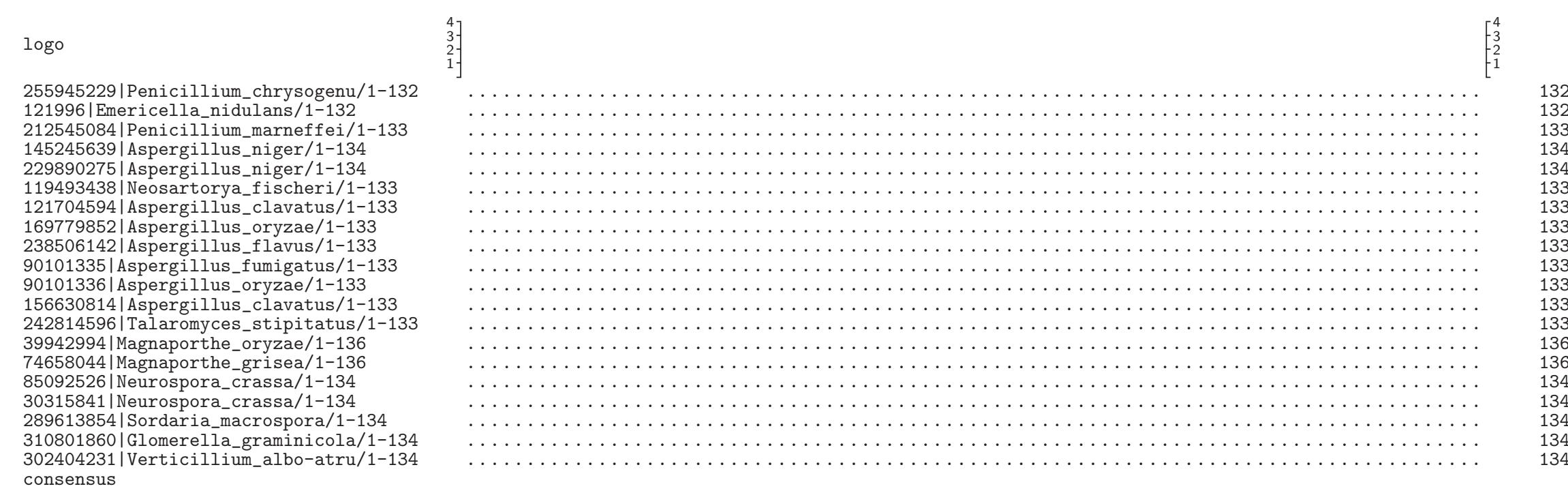
X non conserved
X similar
X ≥ 50% conserved
X ≥ 80% conserved



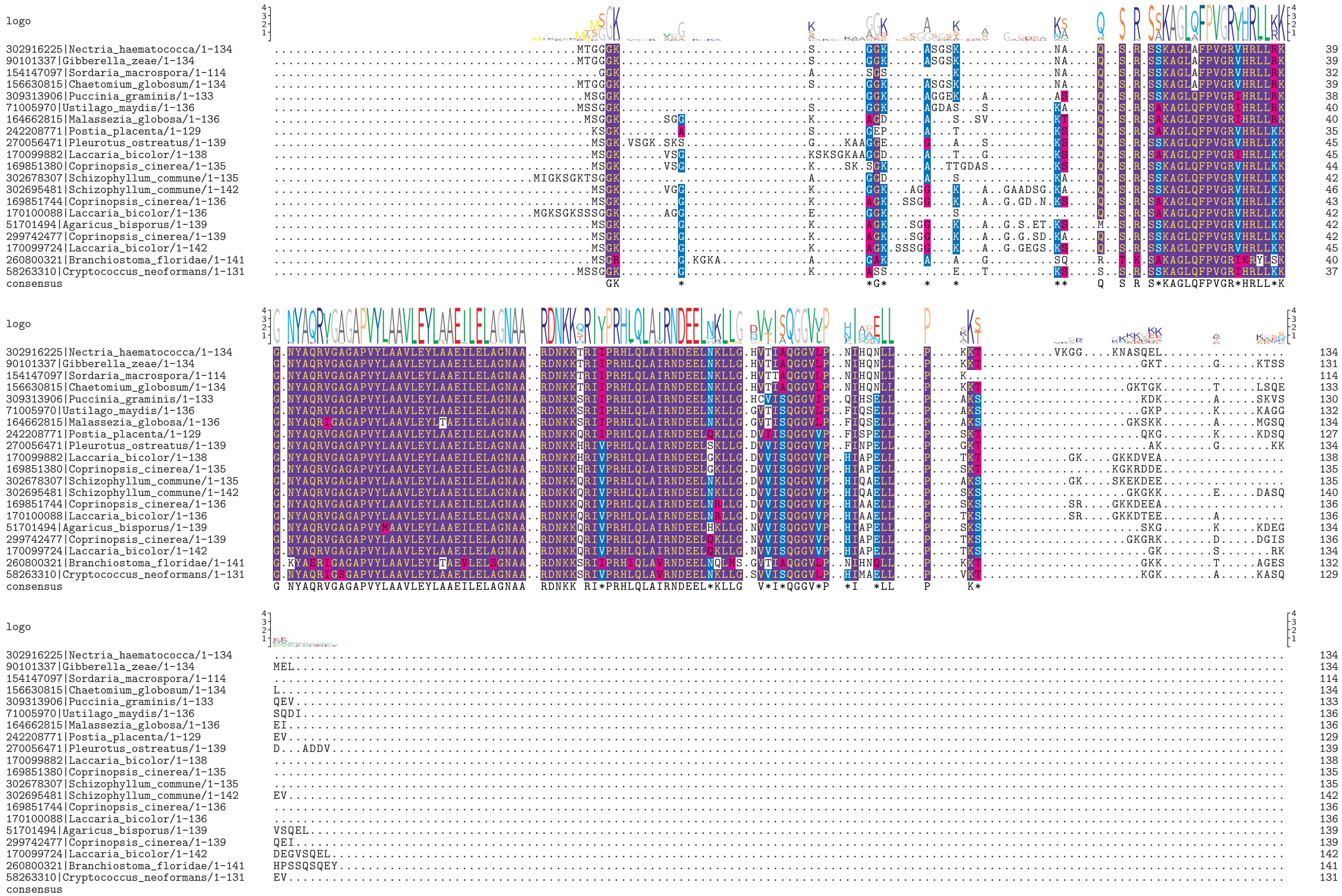


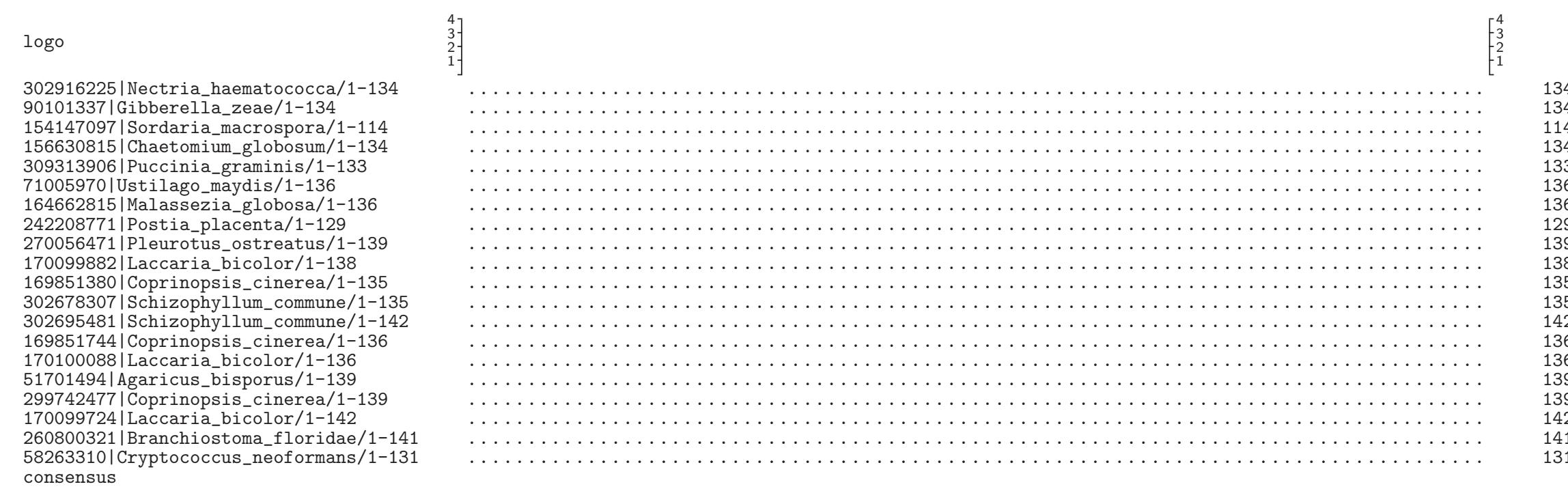
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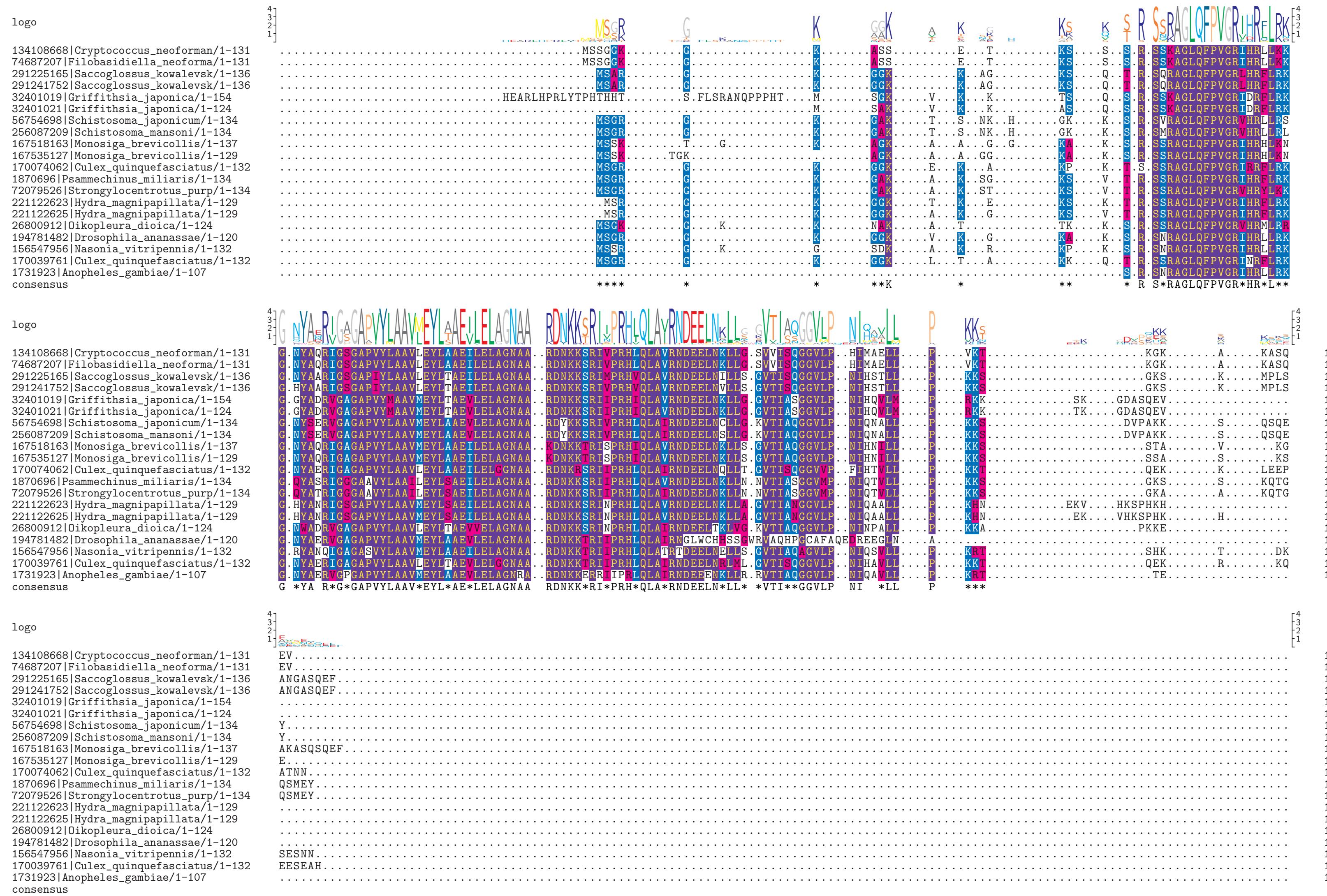


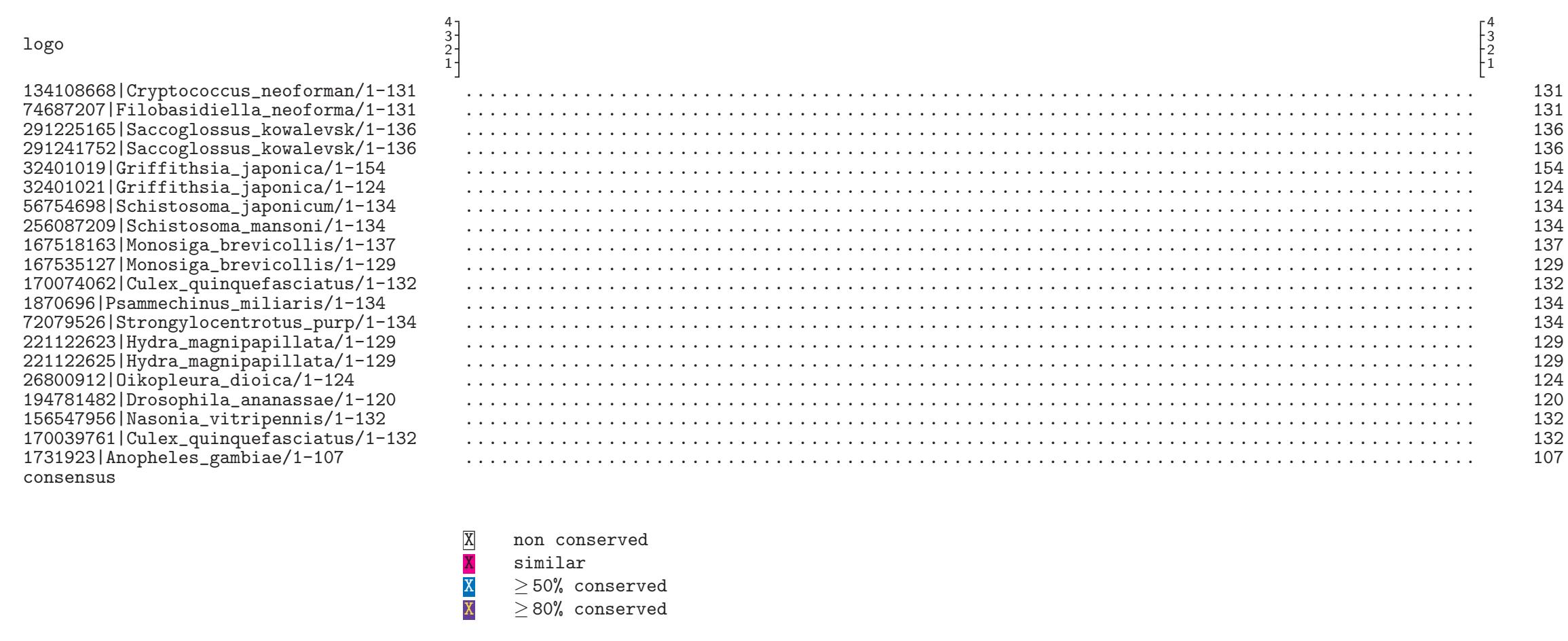
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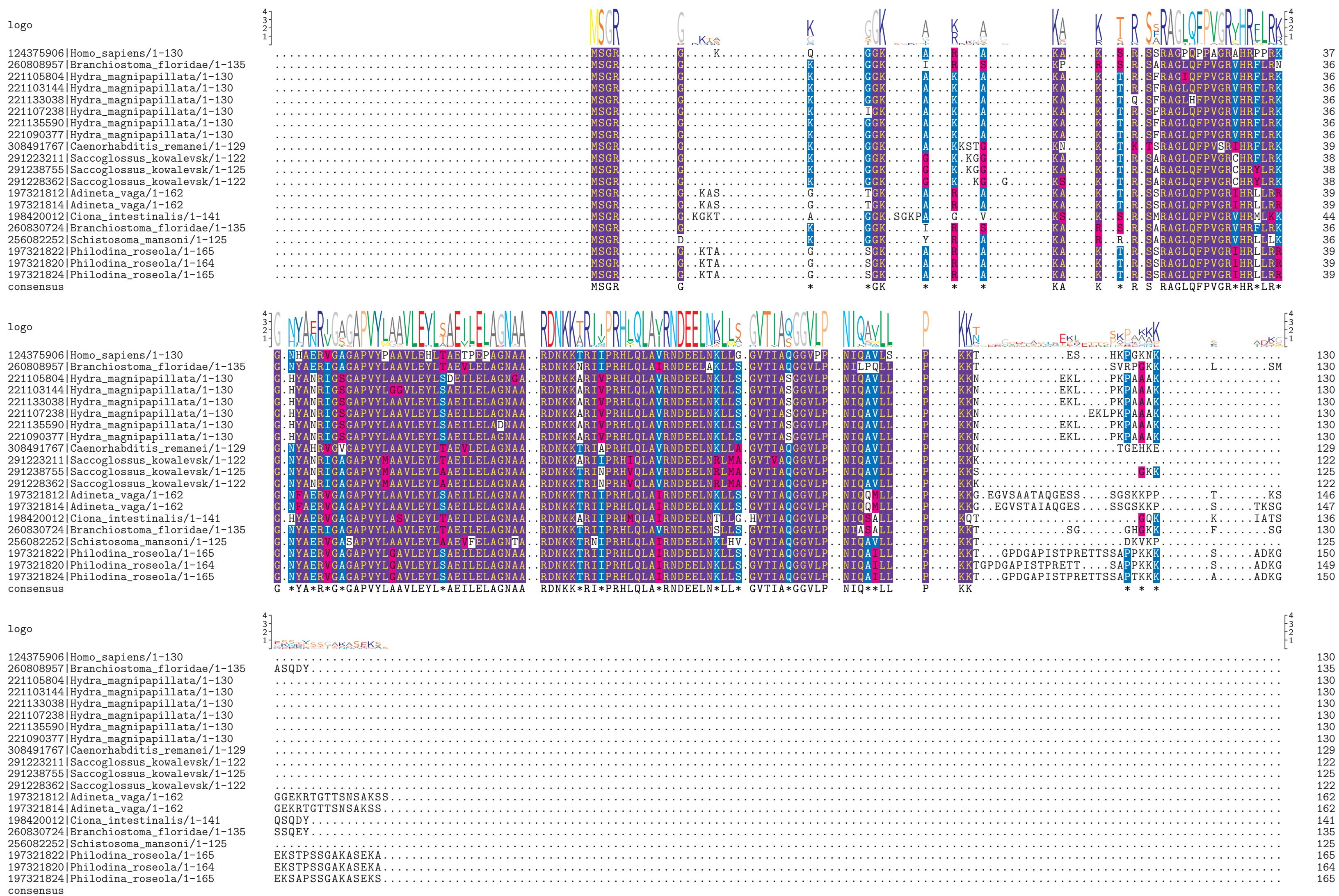


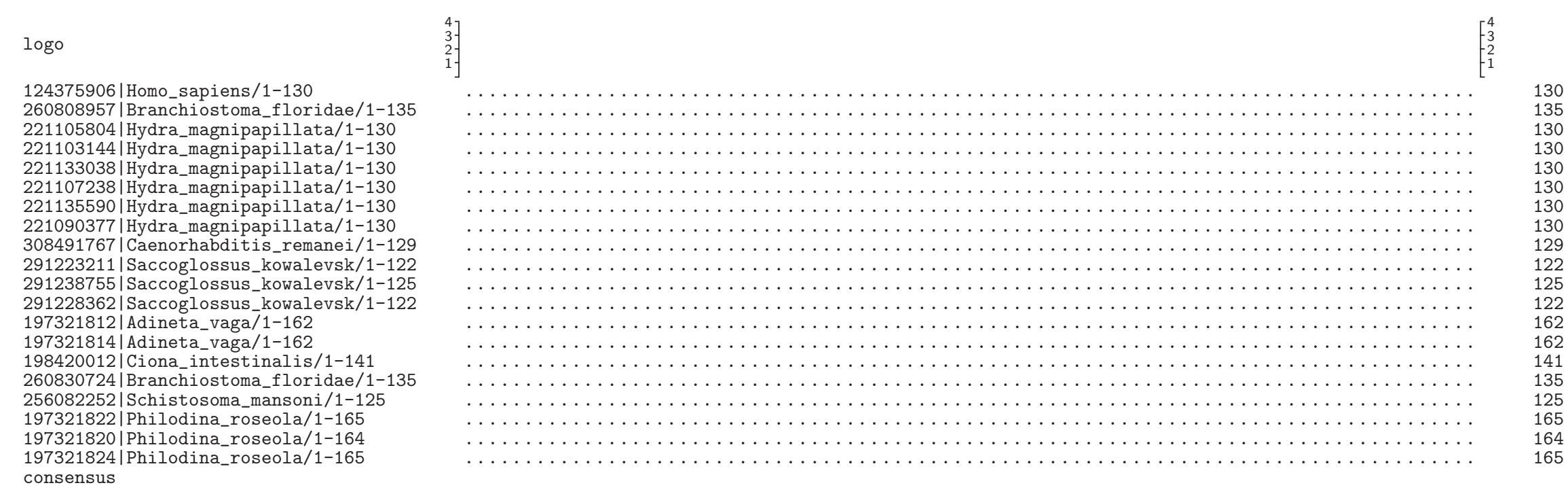


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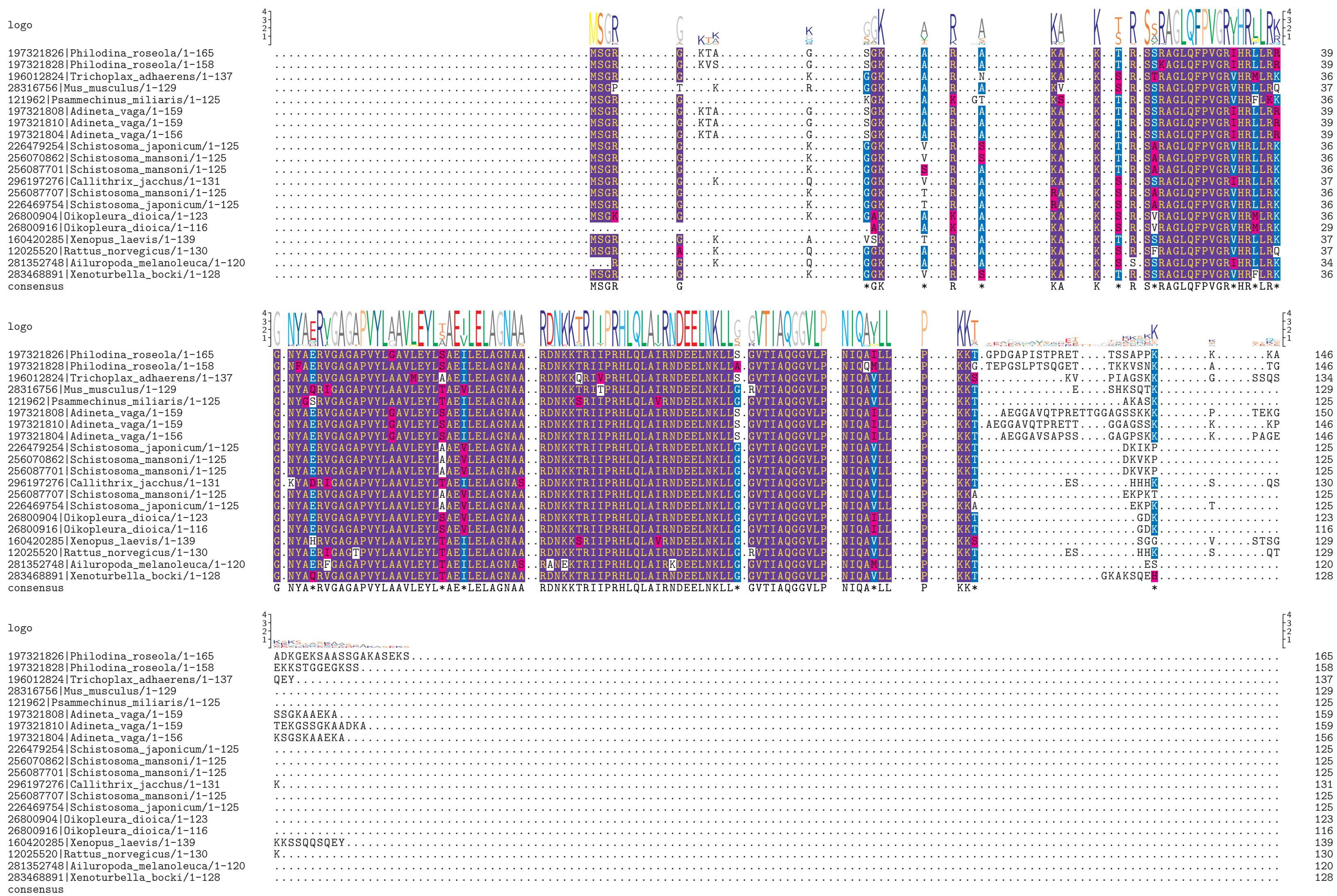


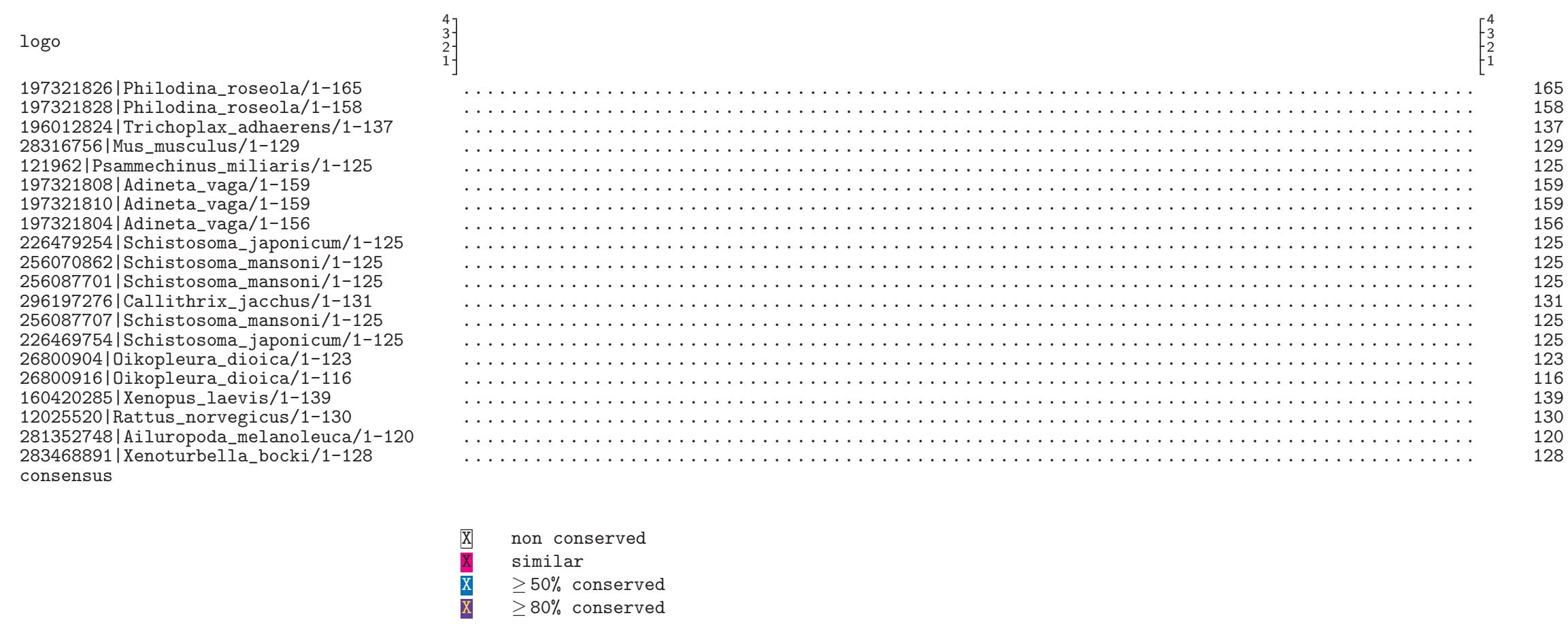


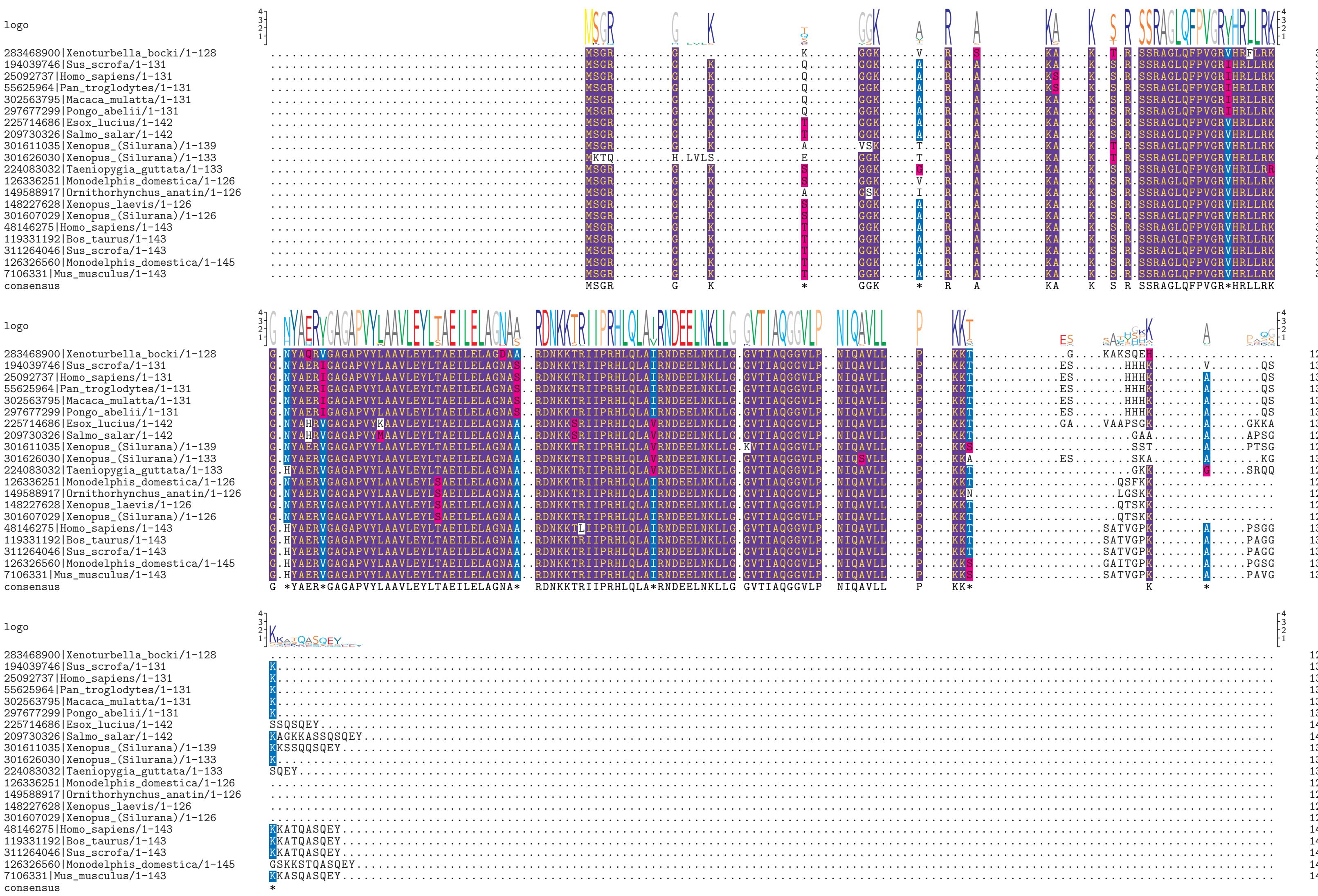


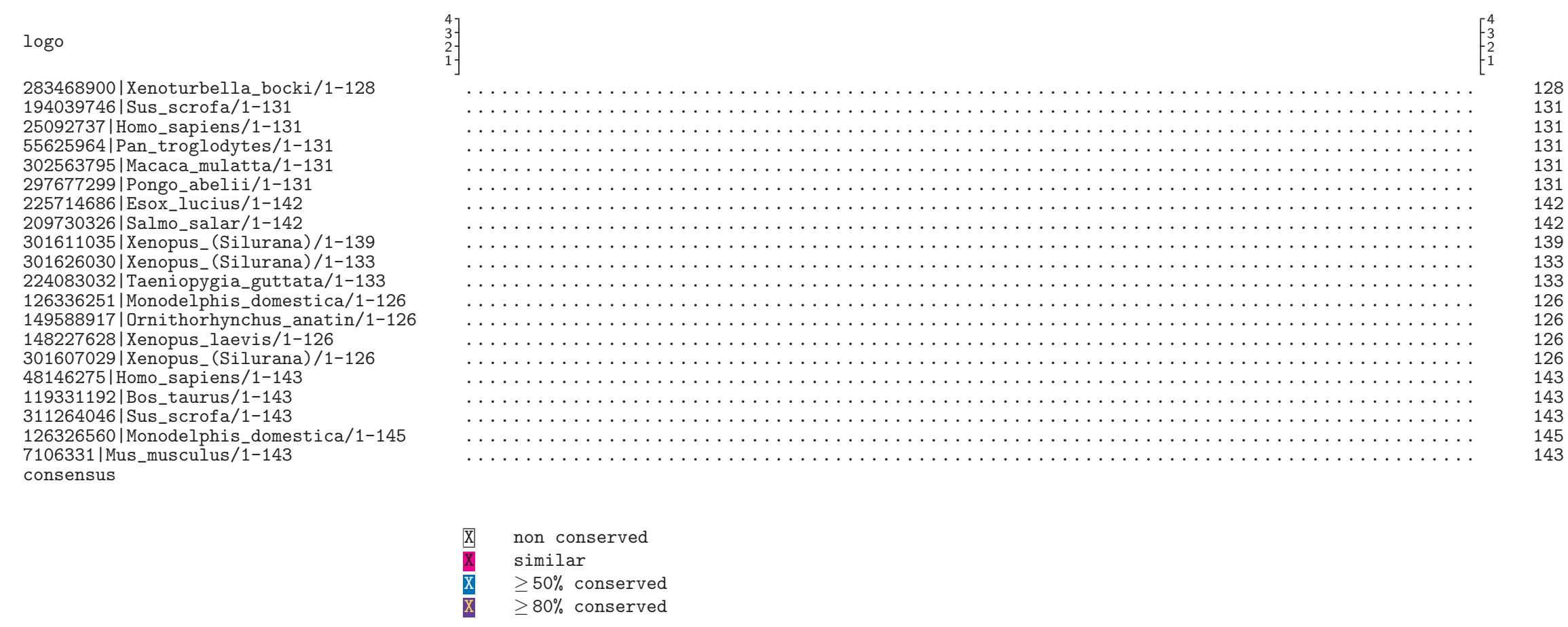


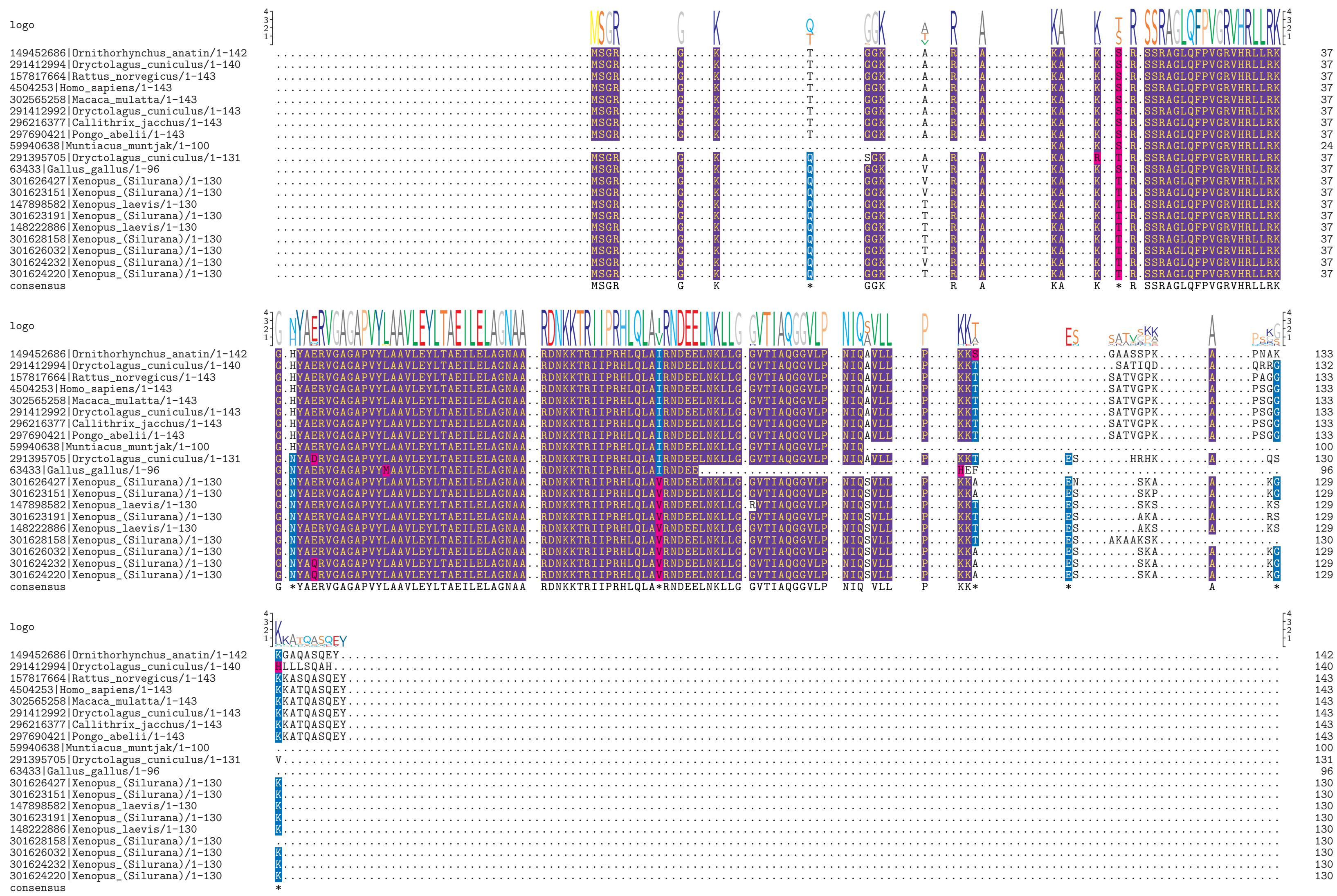
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X ≥ 50% conserved
X ≥ 80% conserved

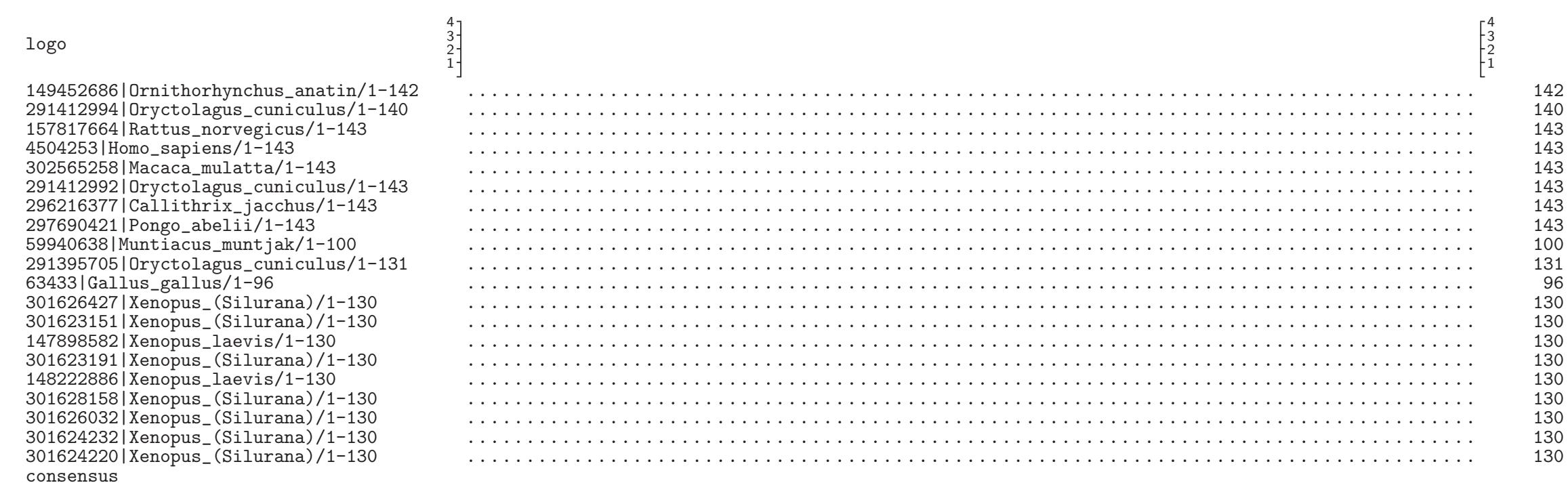




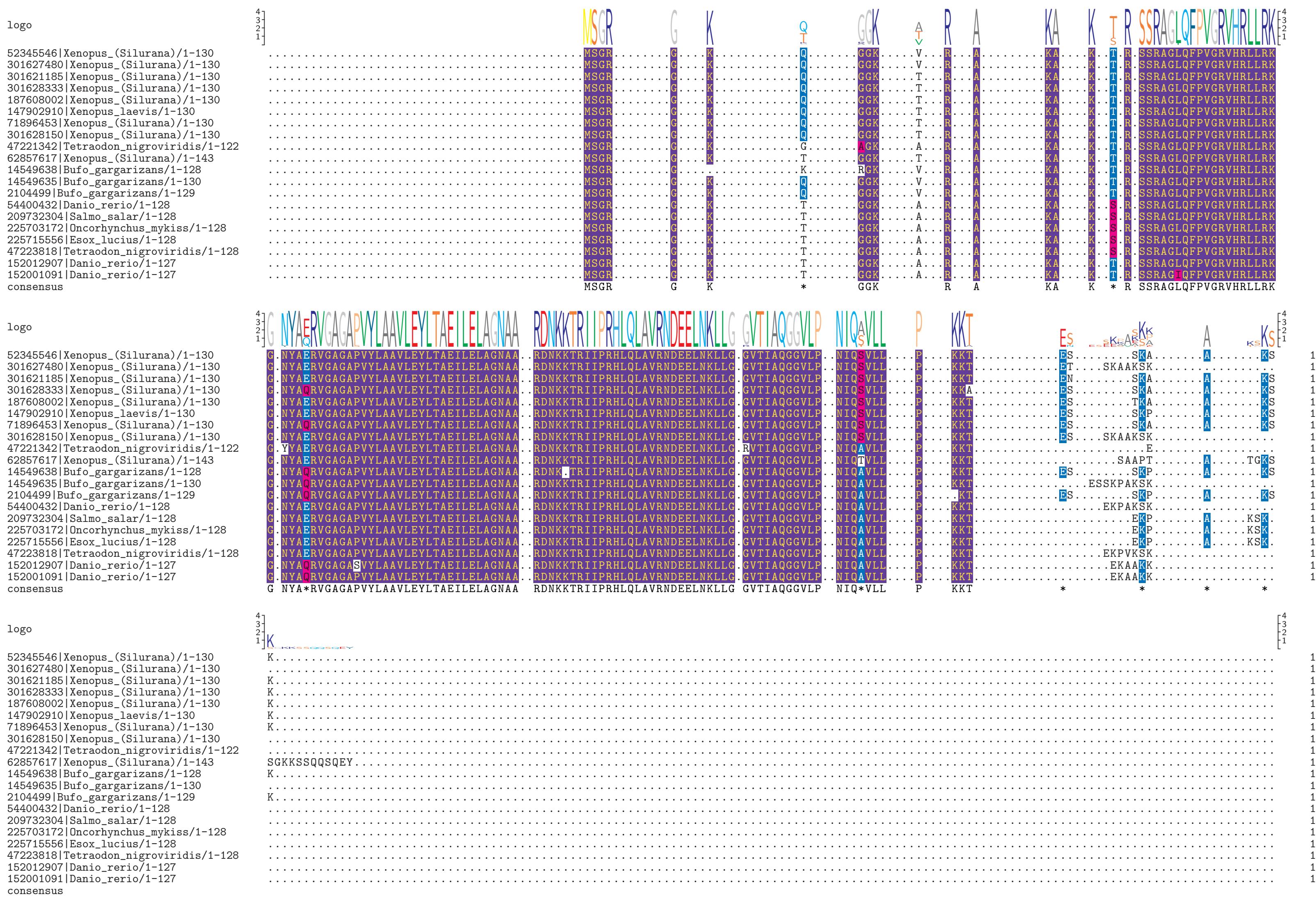


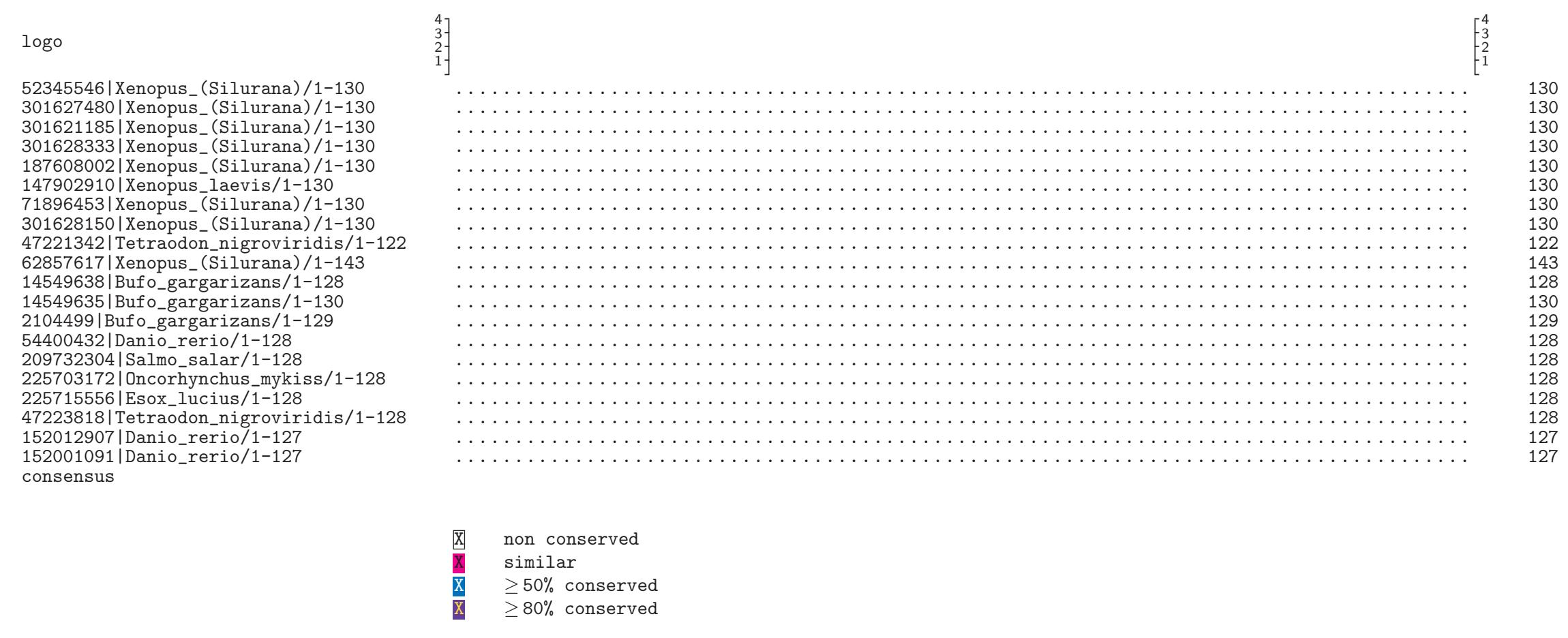


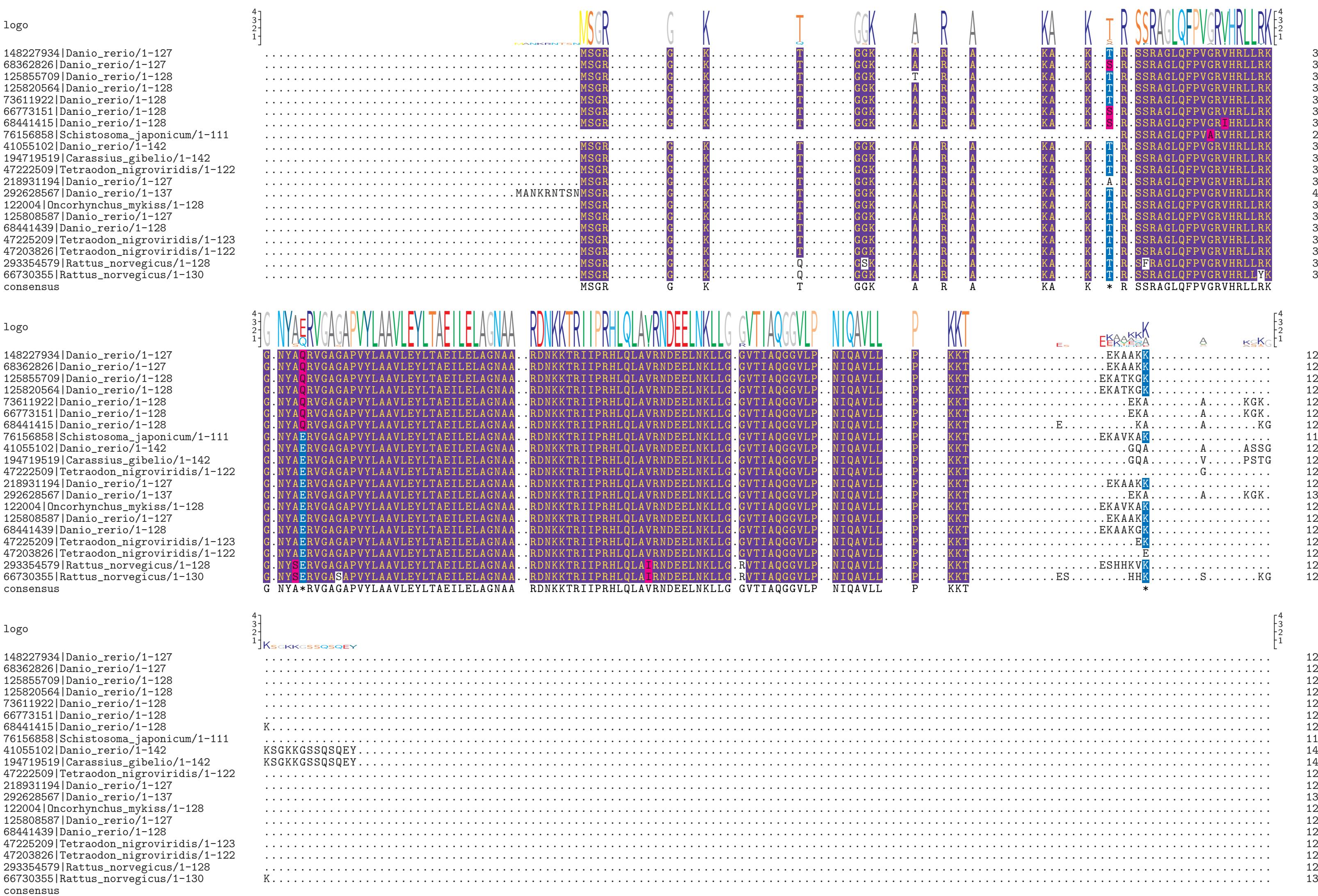


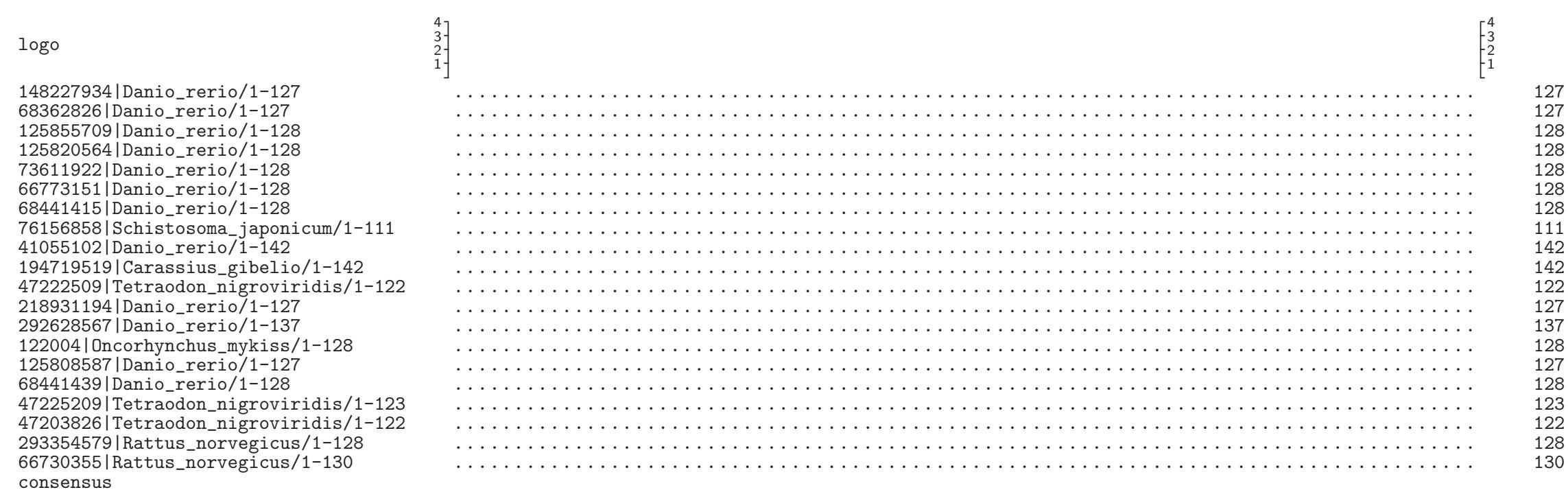


non conserved
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 ≥ 80% conserved

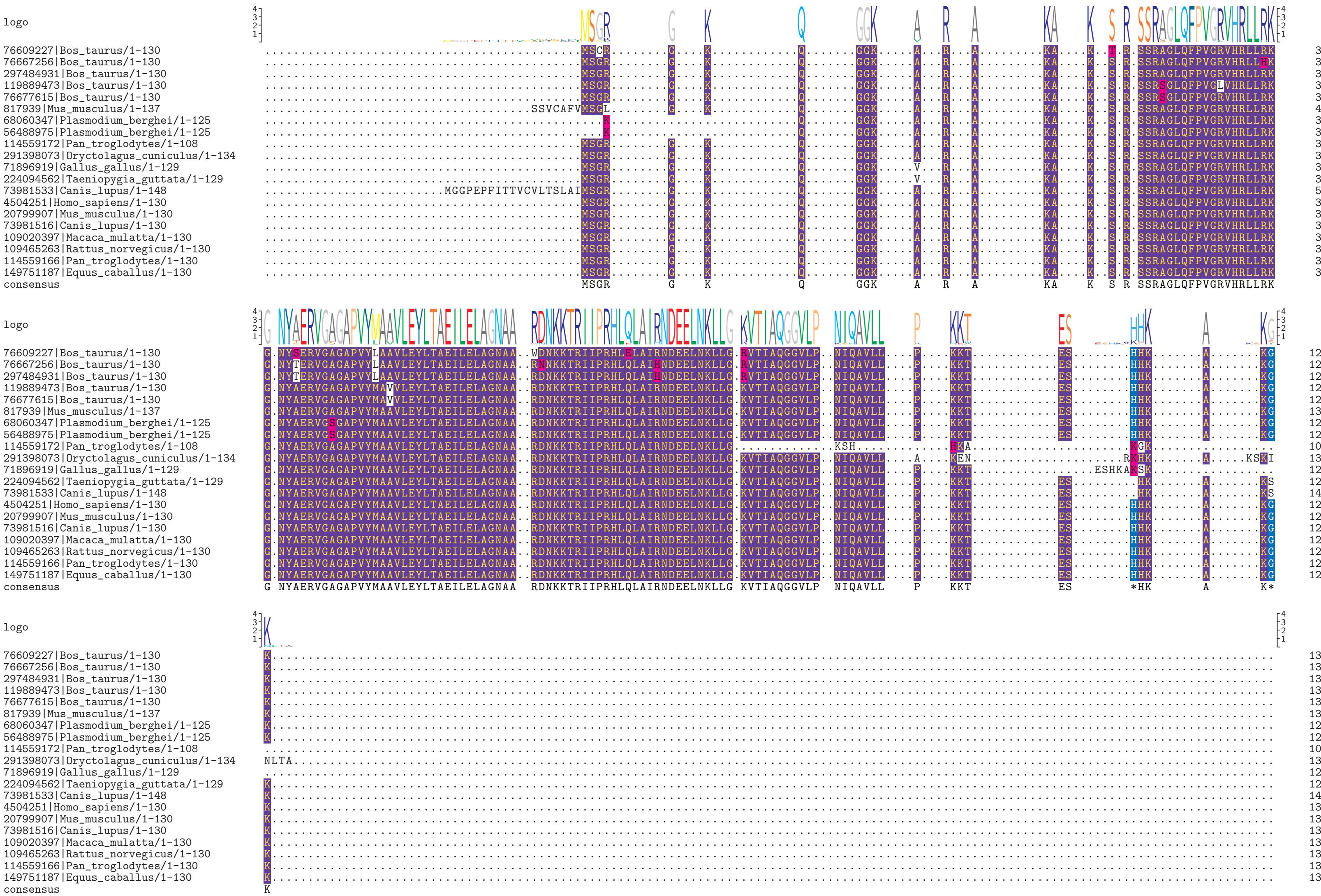


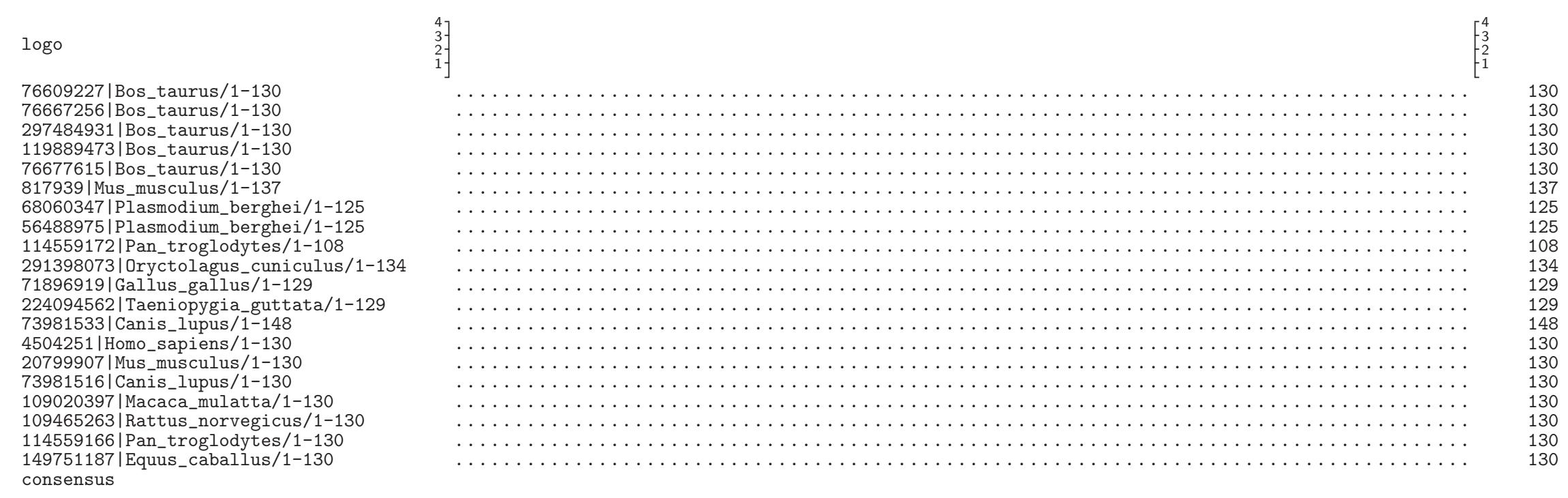




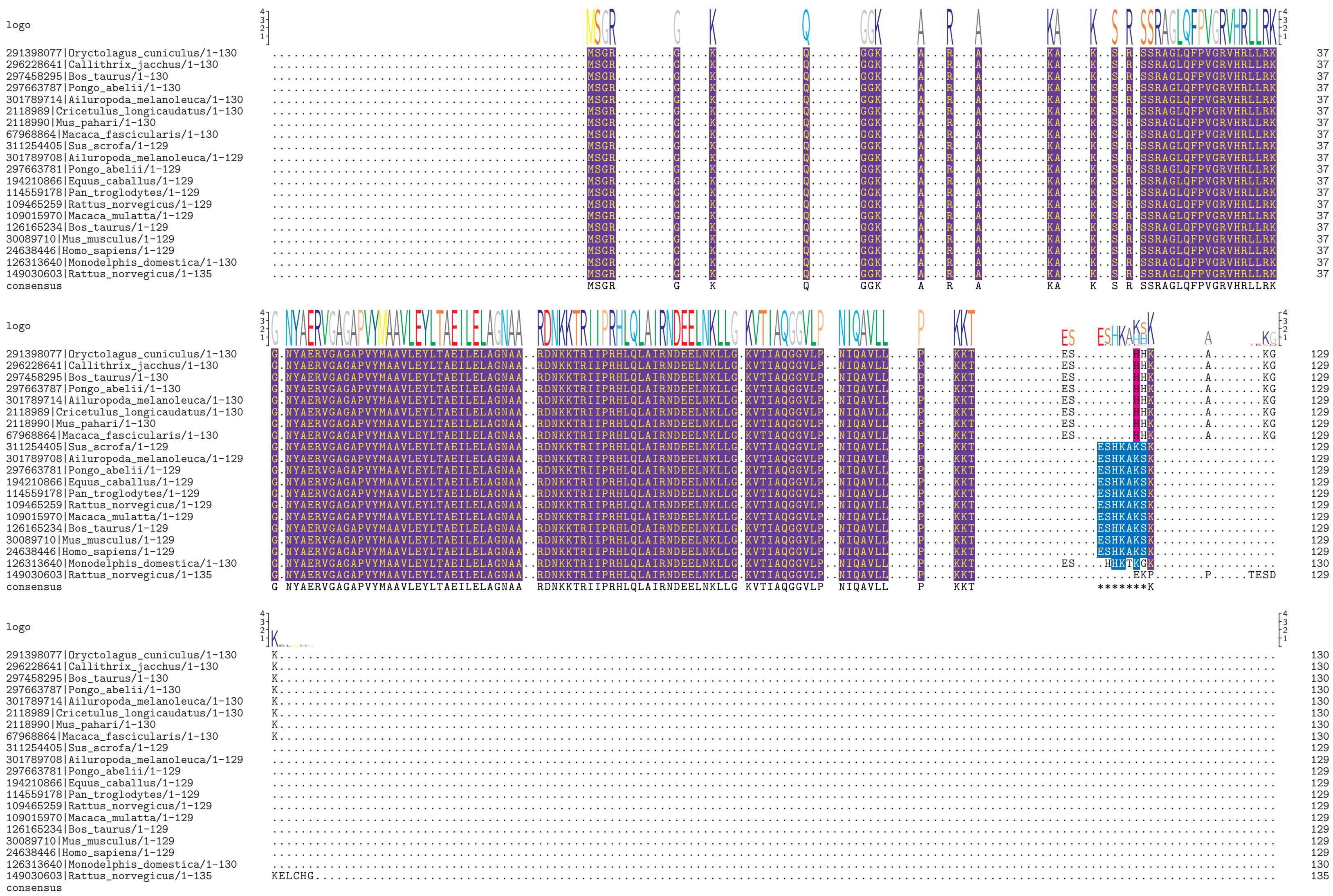


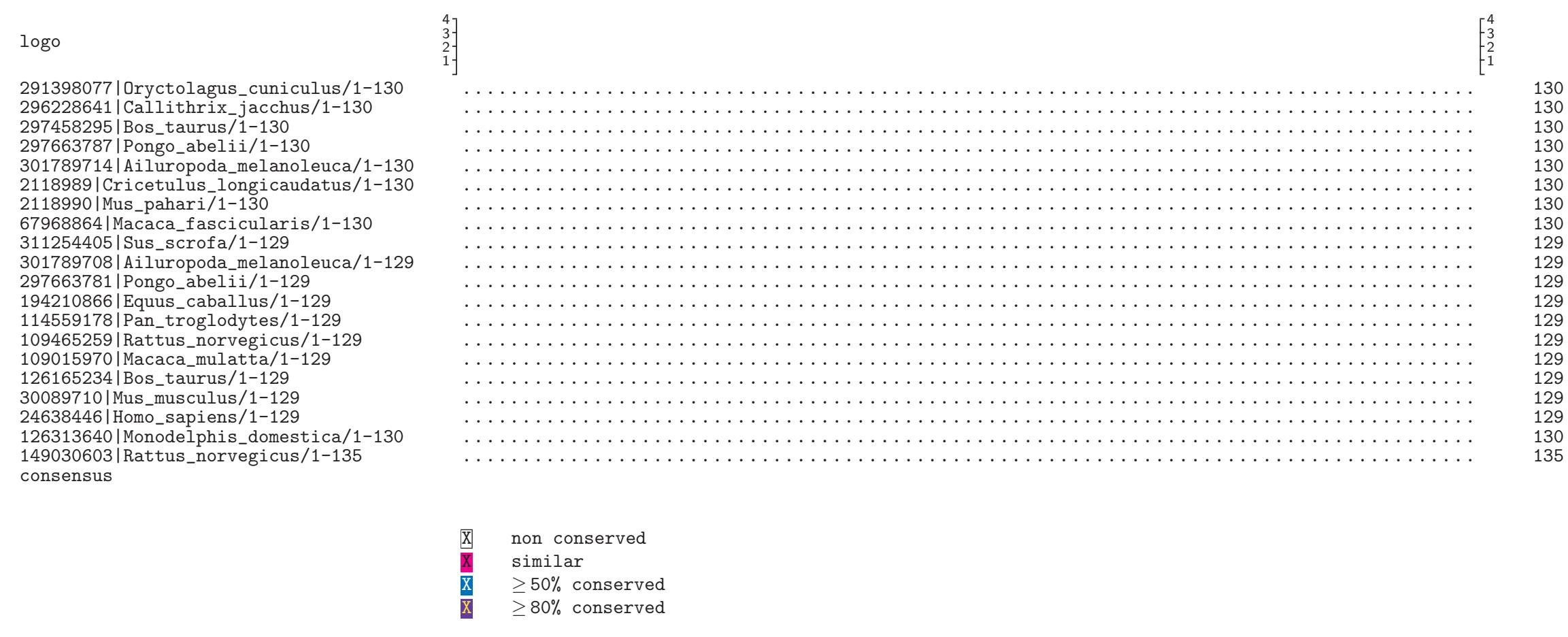
X non conserved
X similar
X $\geq 50\%$ conserved
X $\geq 80\%$ conserved

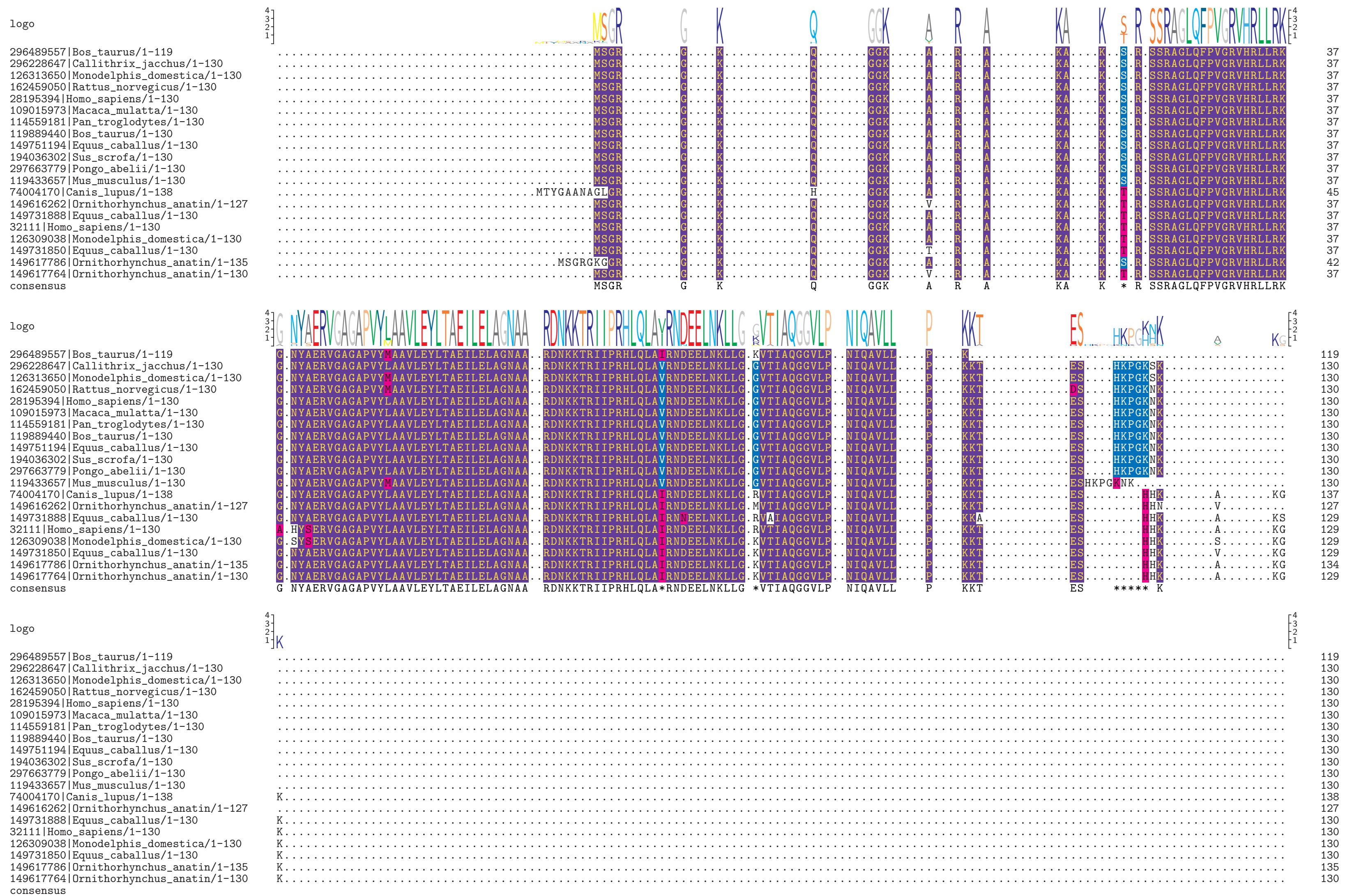


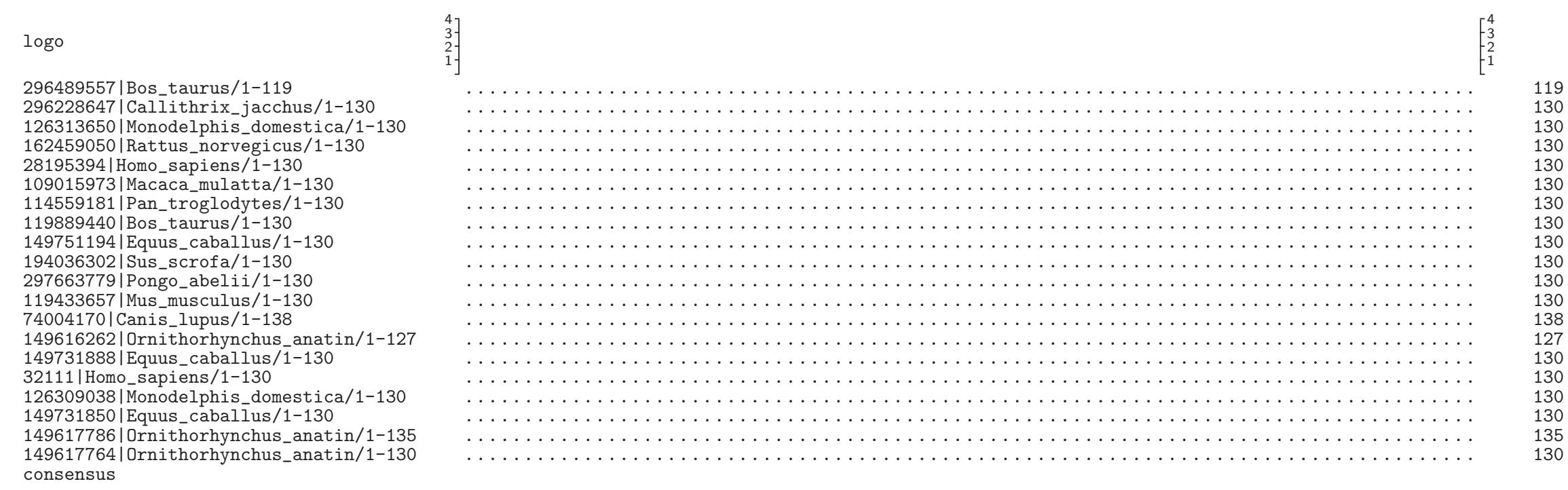


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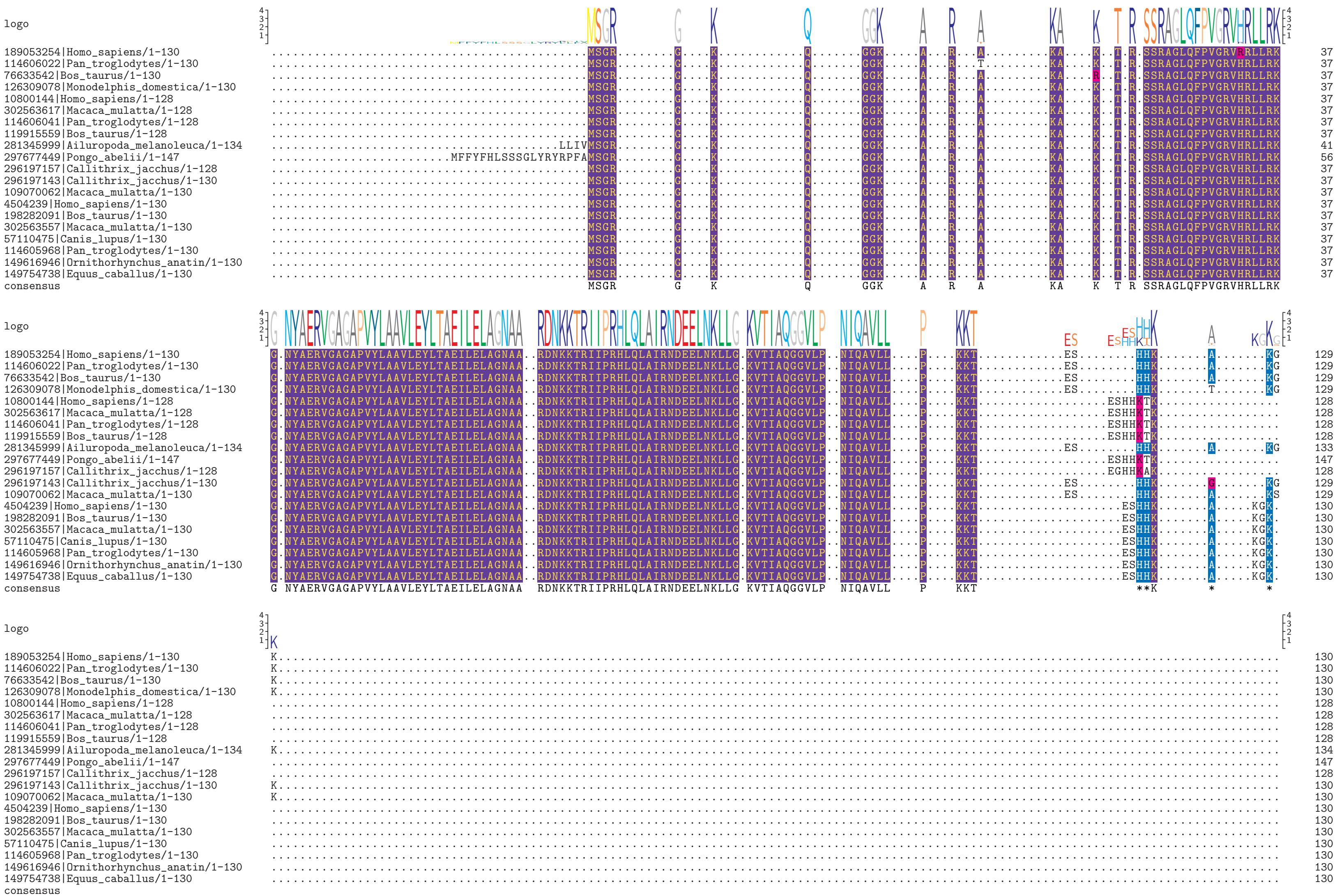


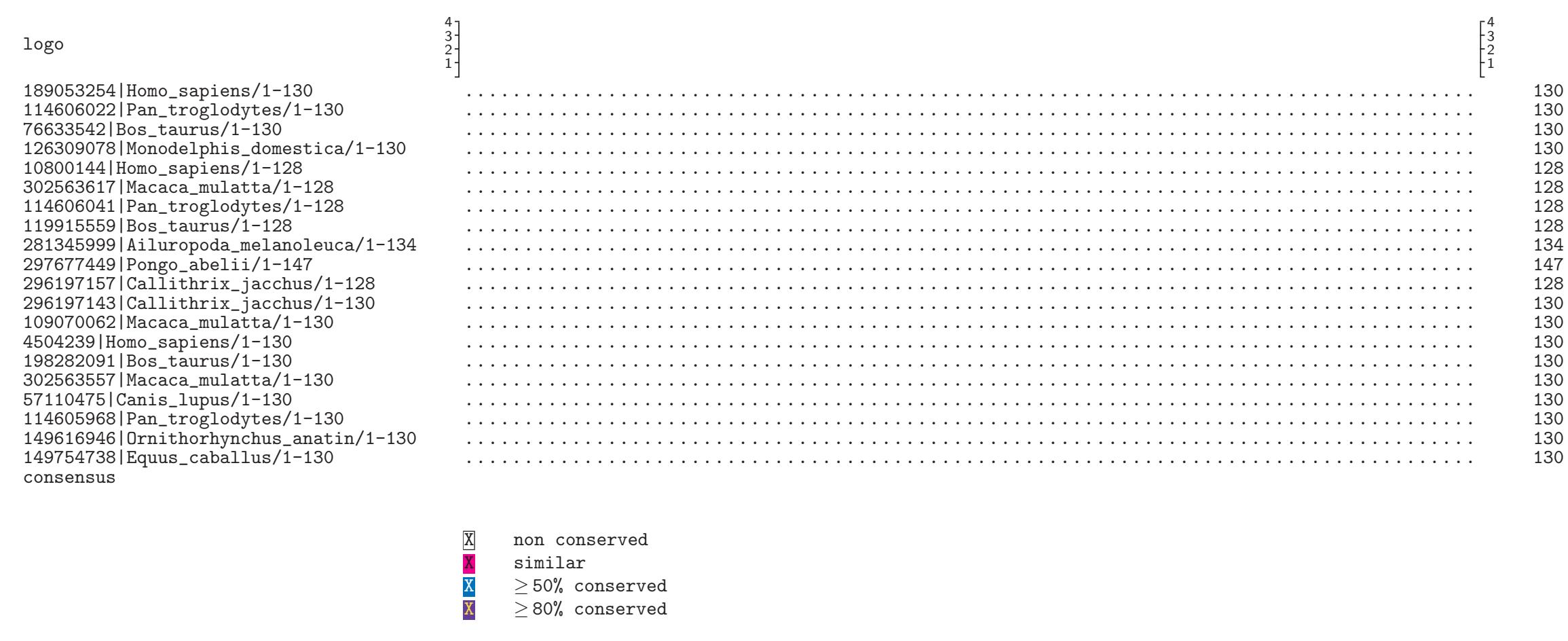


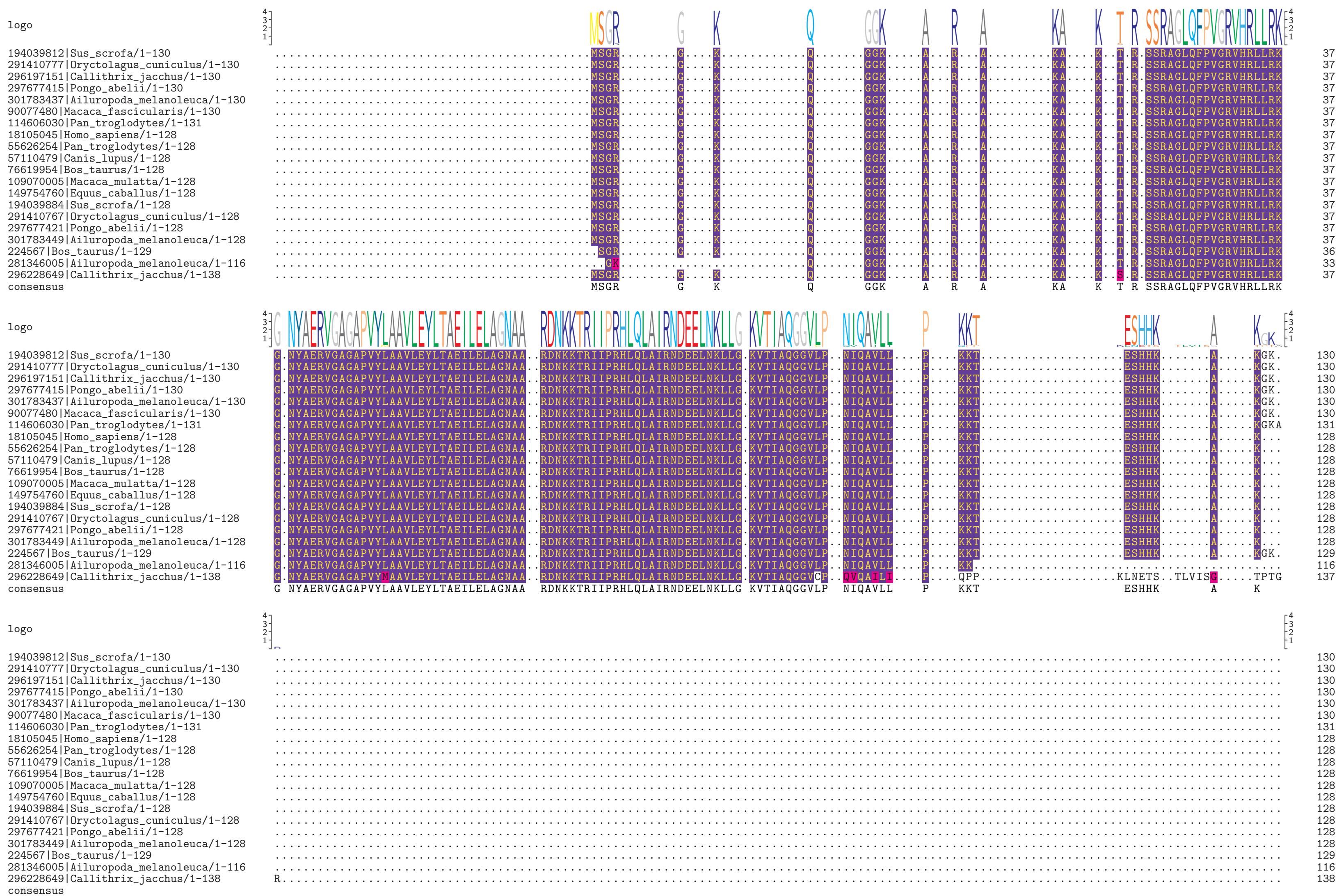


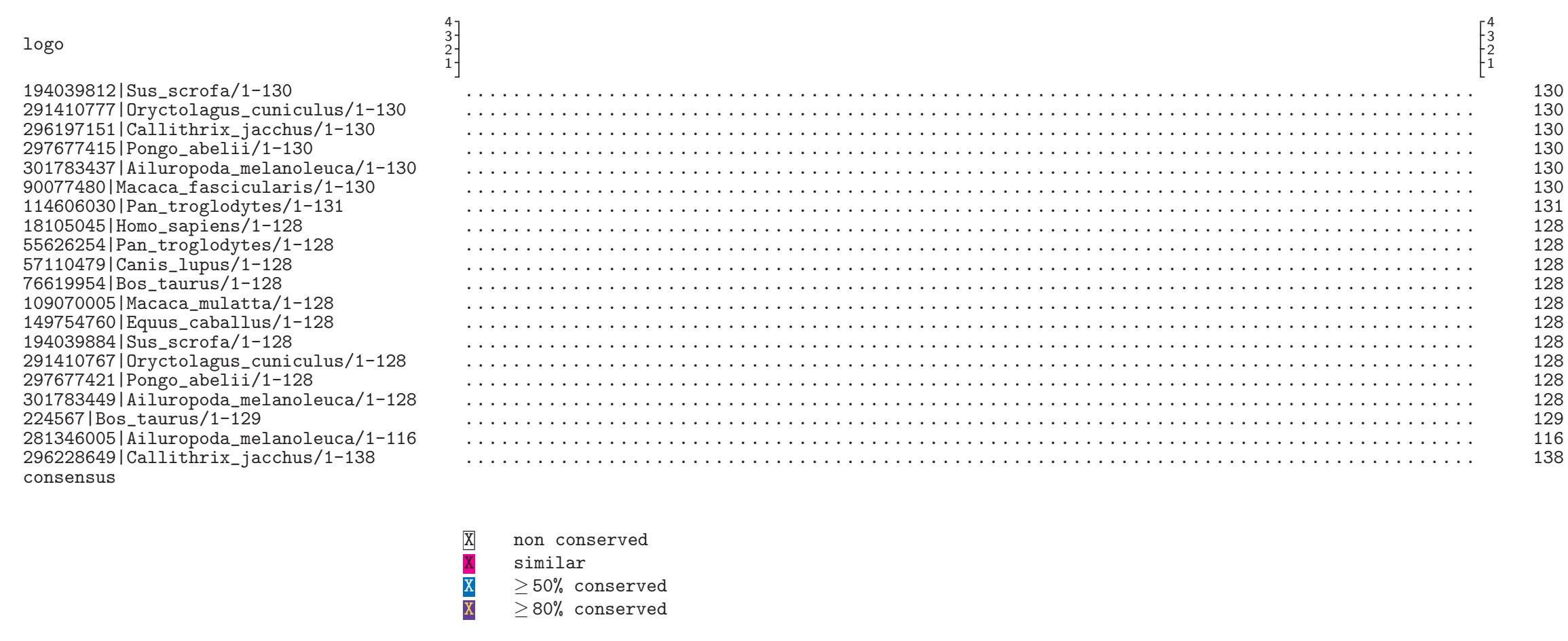


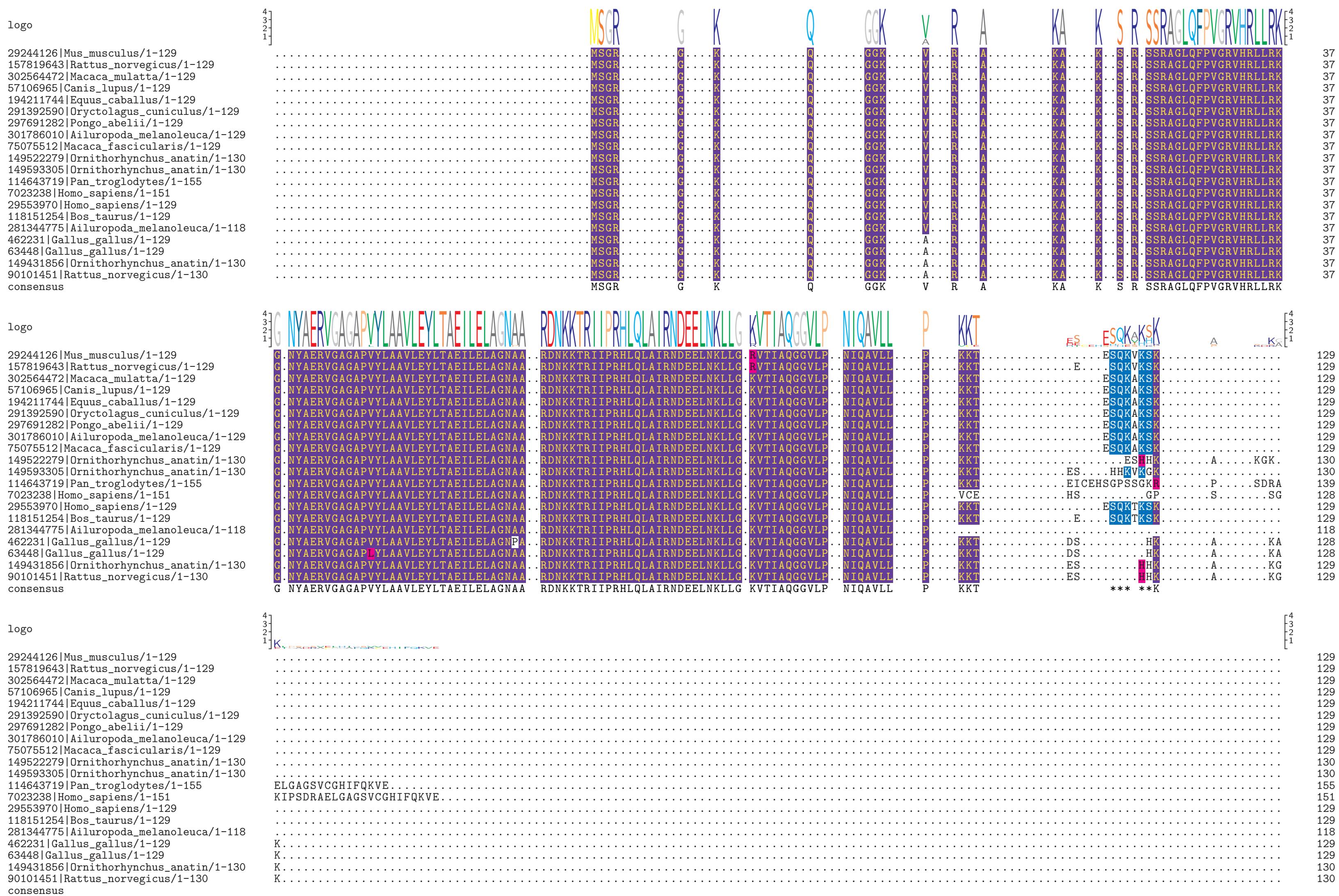
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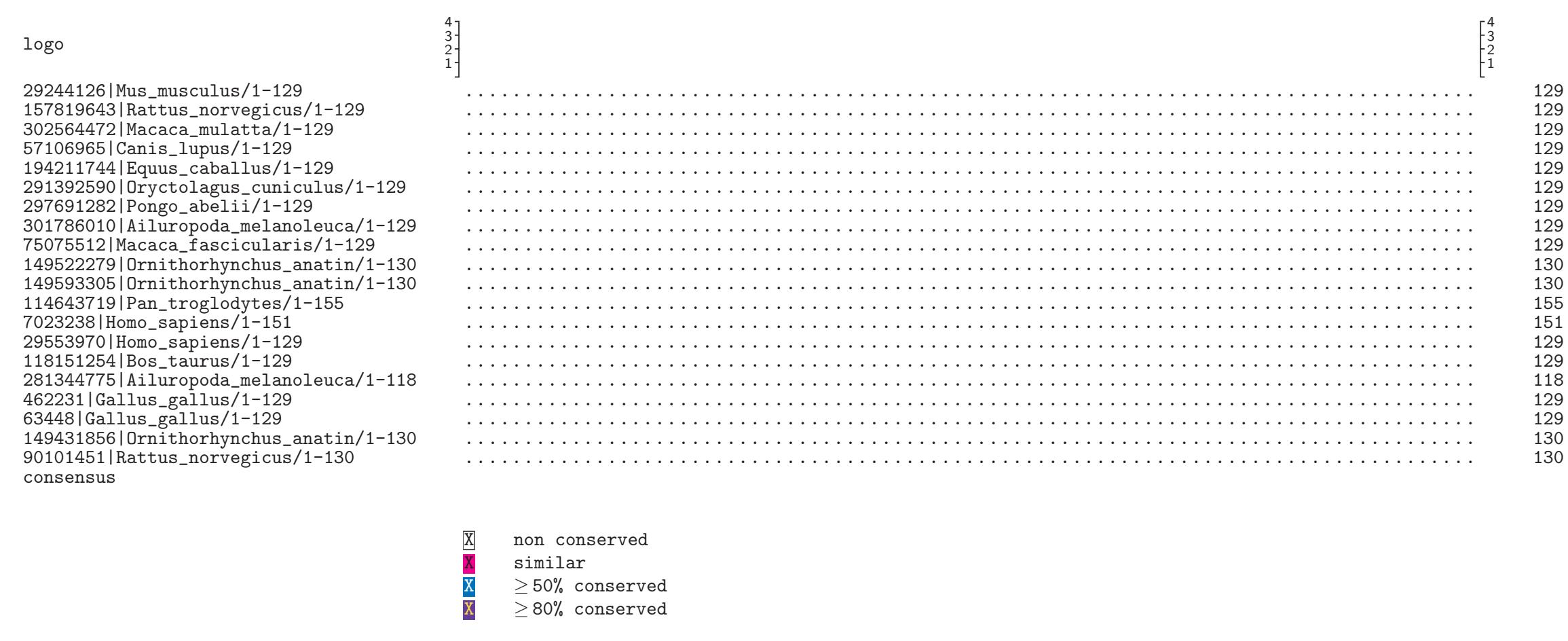




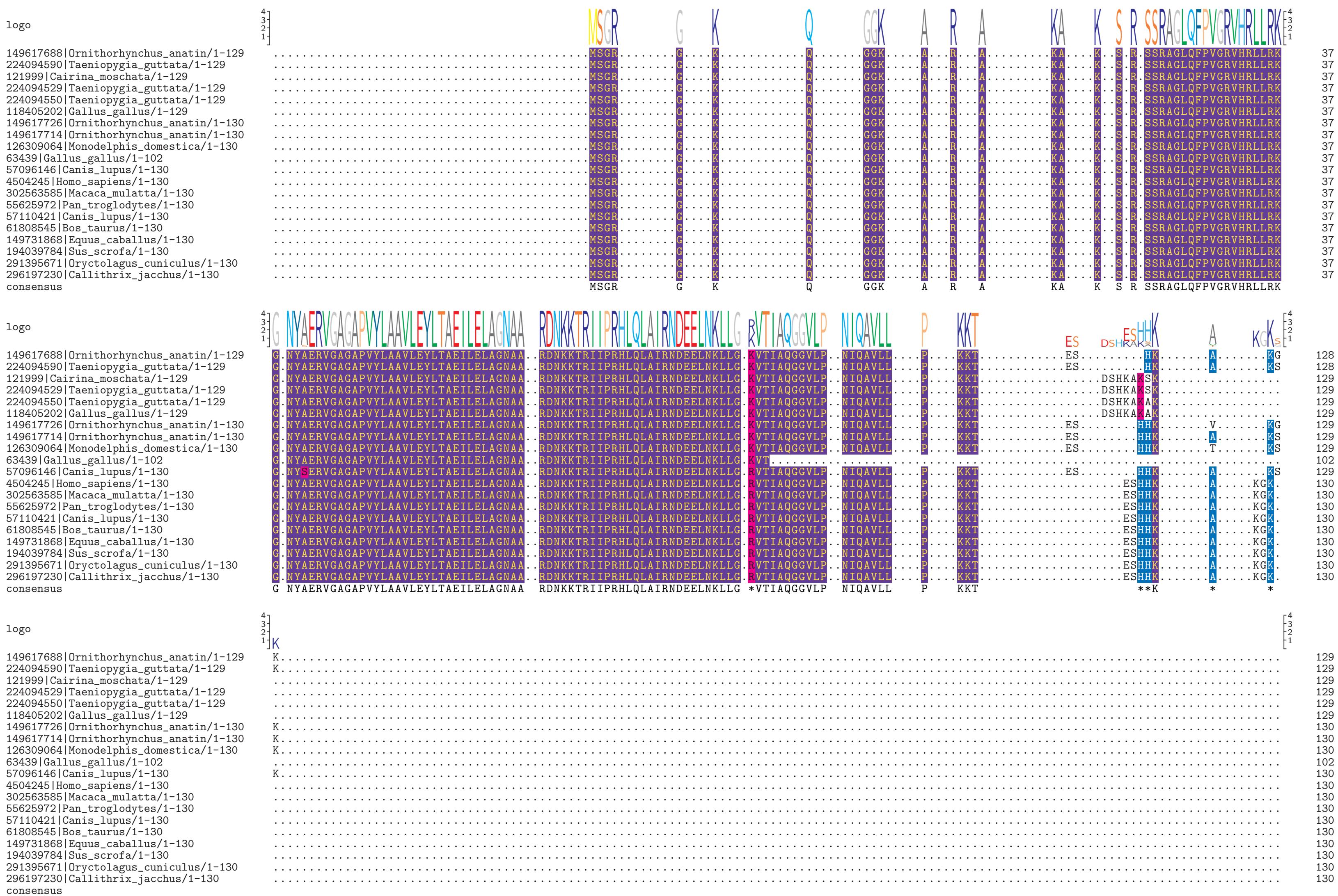


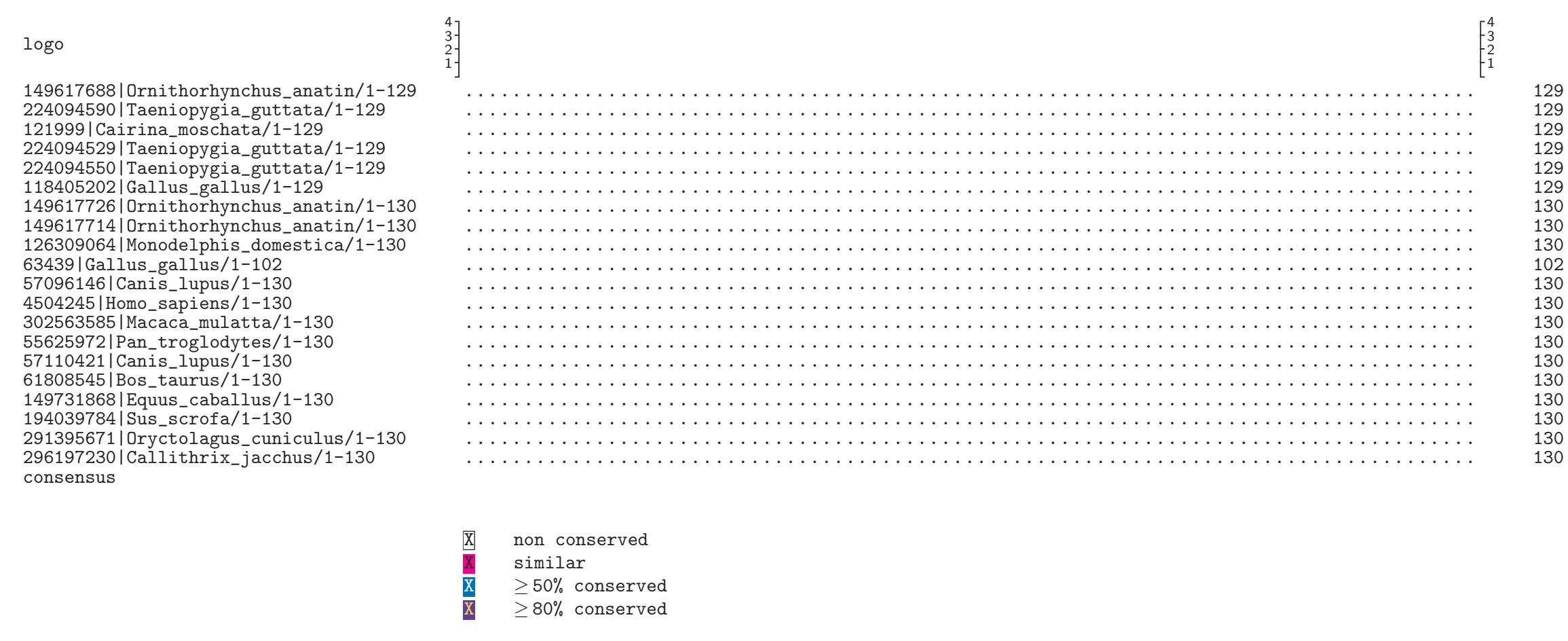


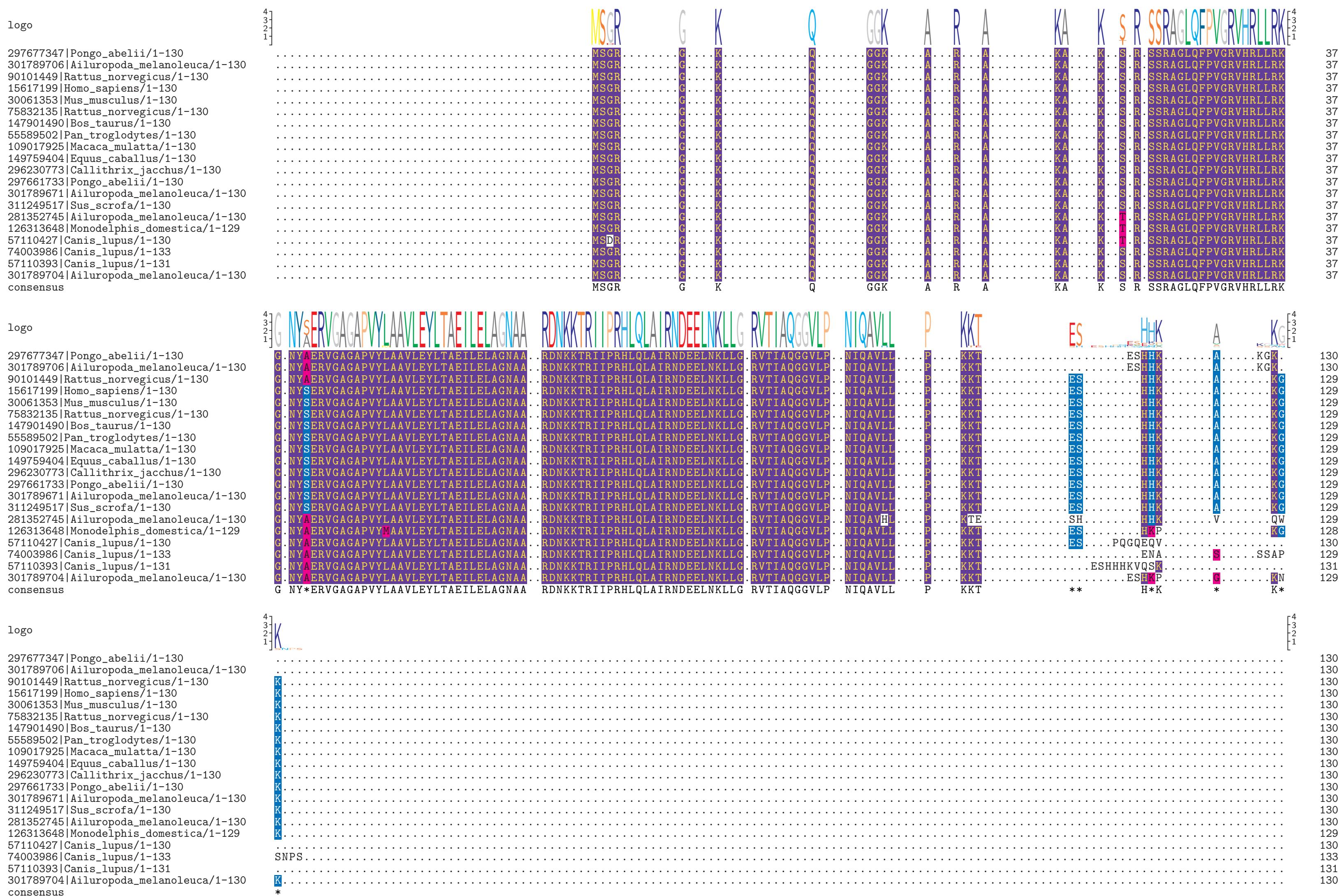


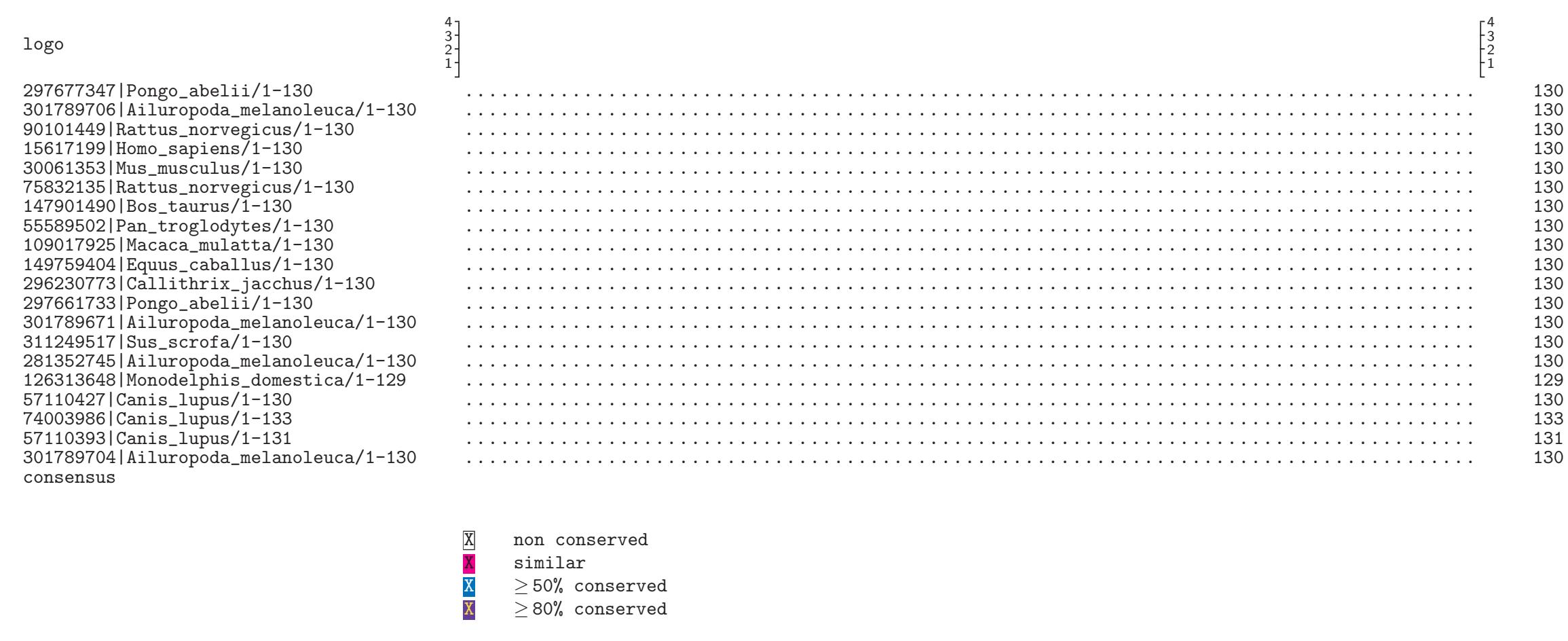


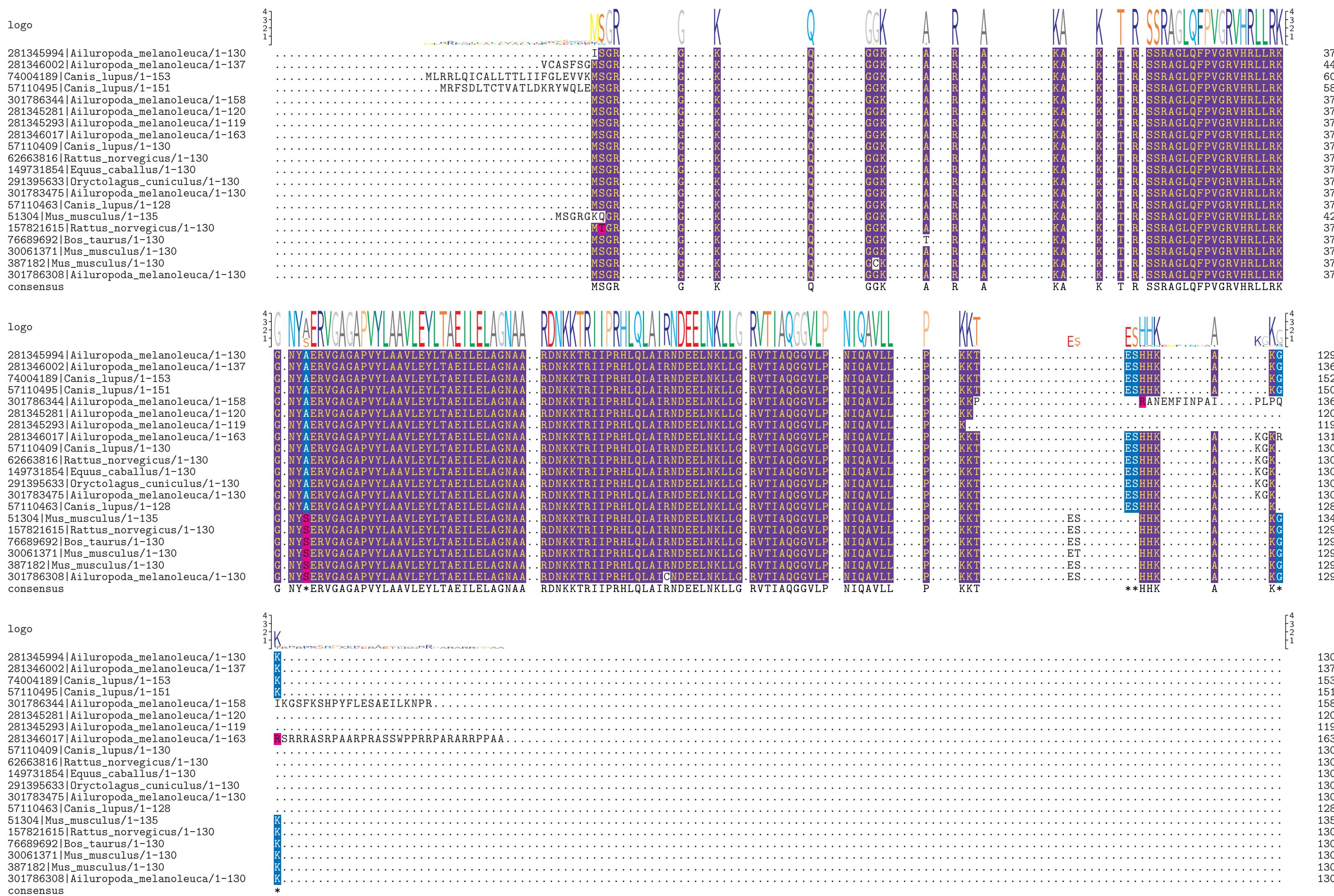
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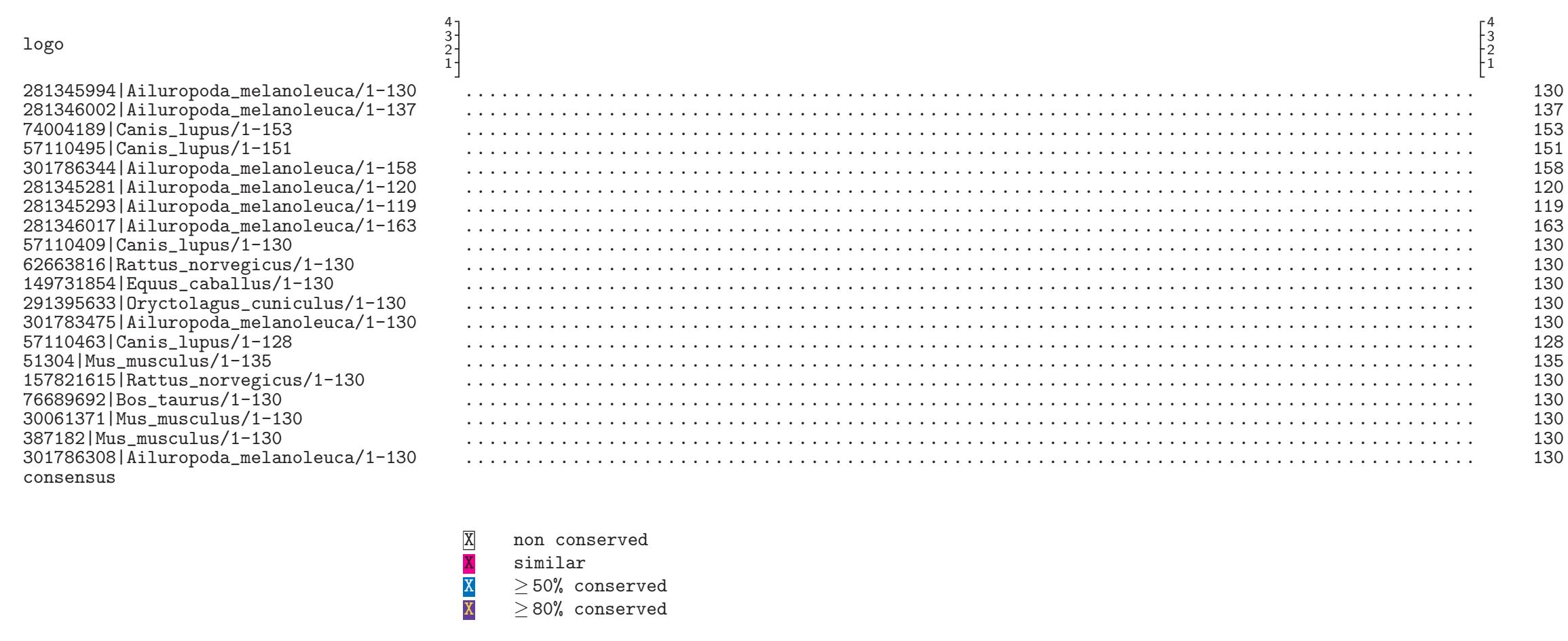


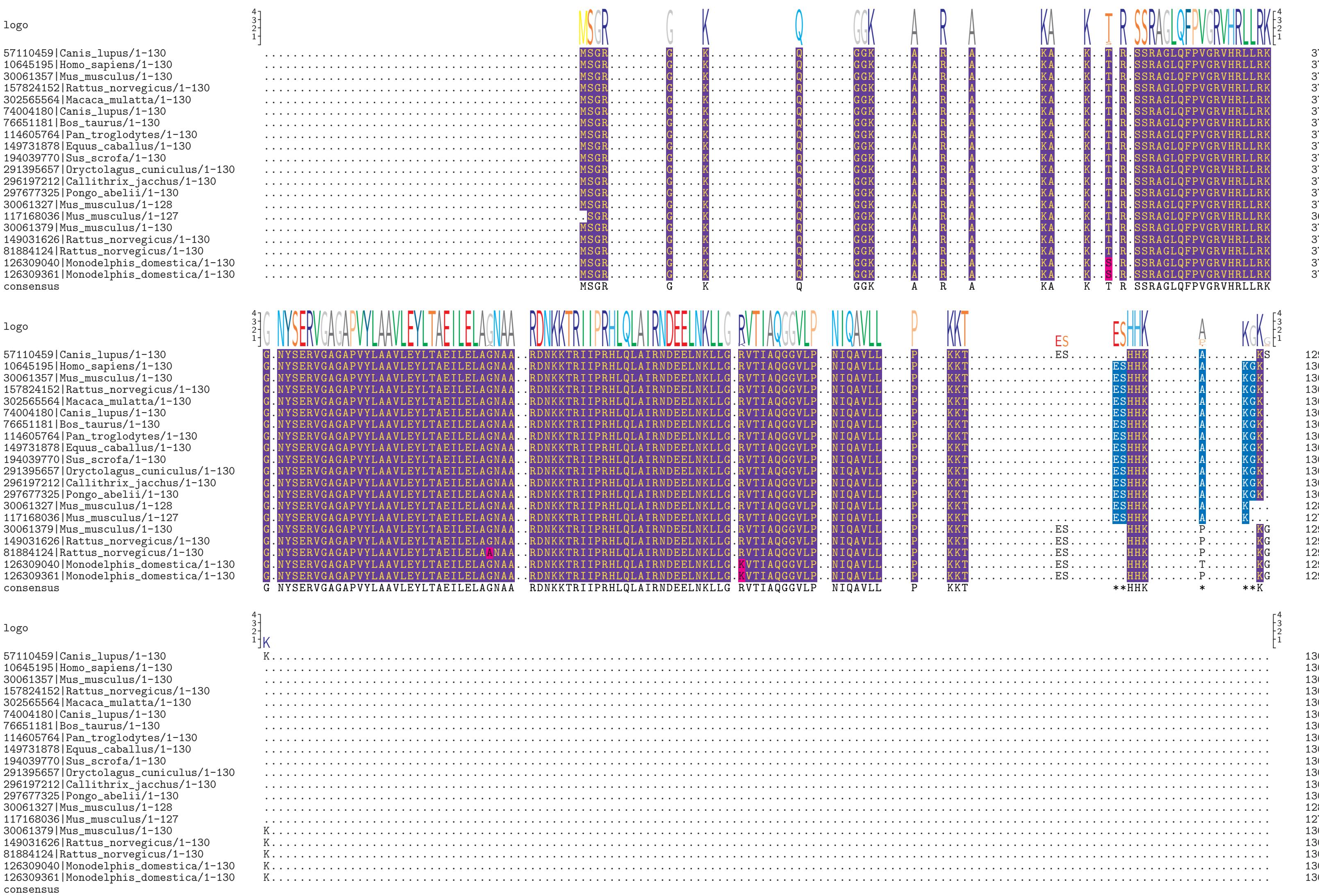


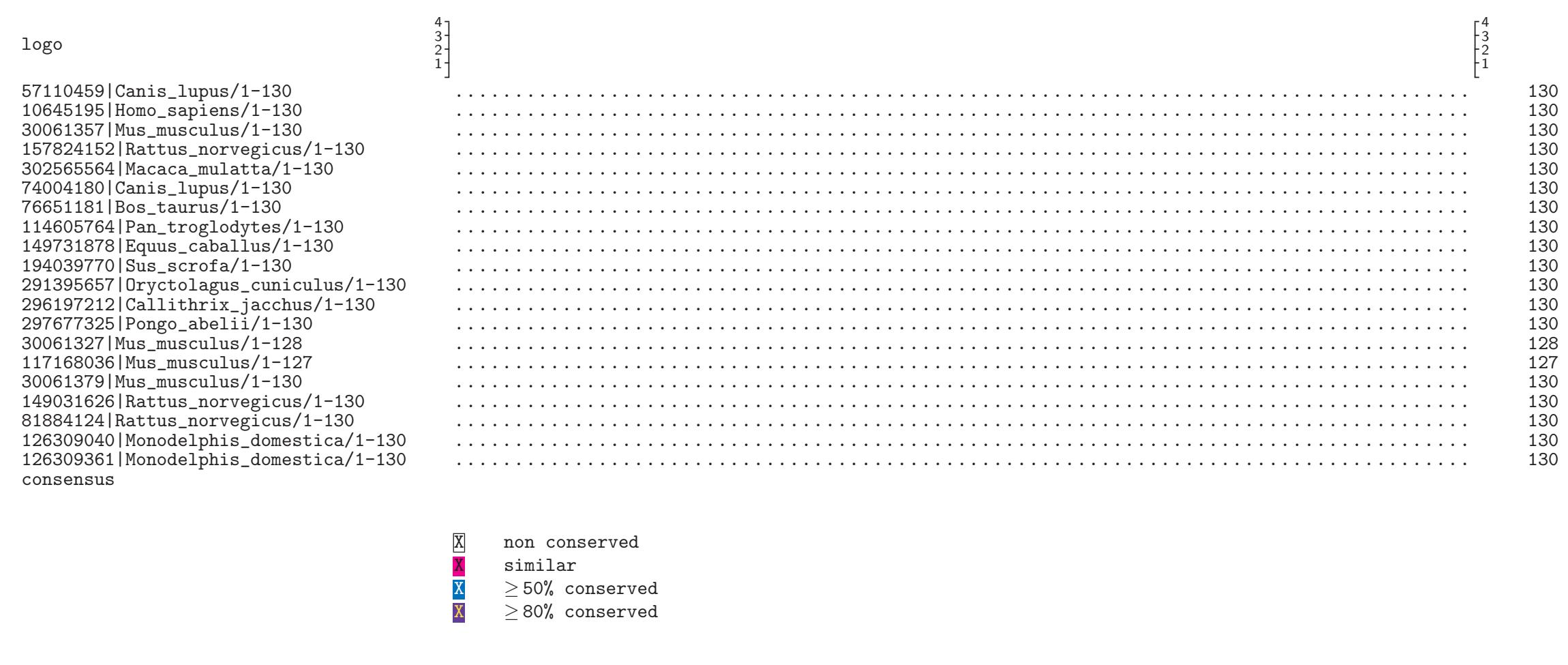


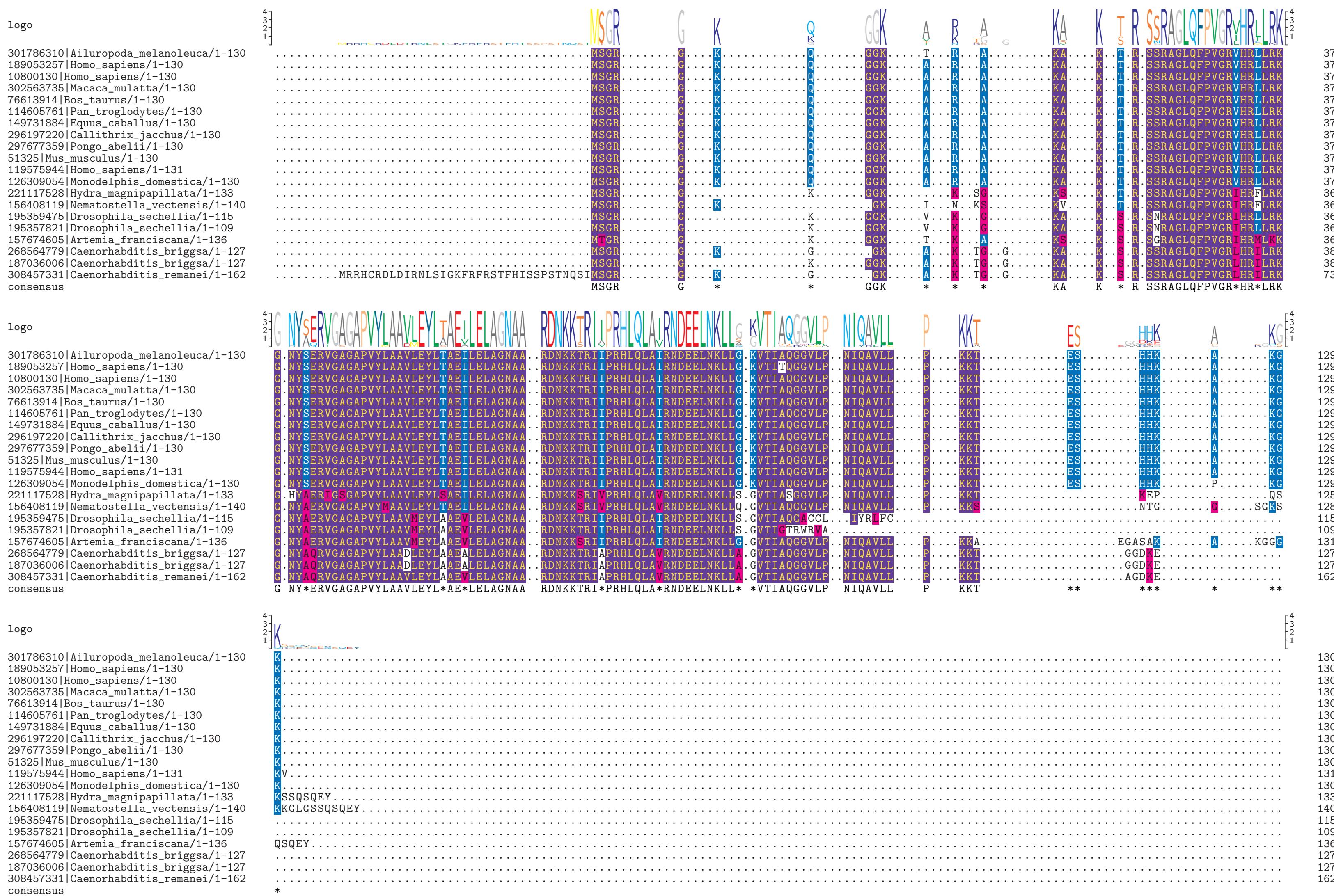


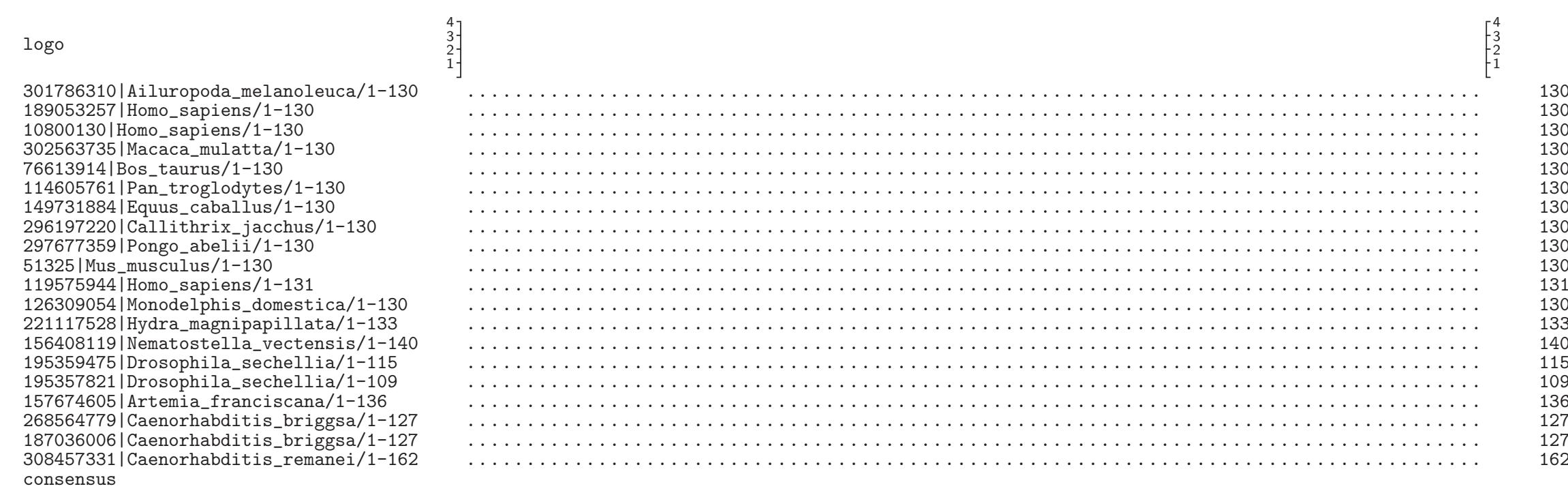




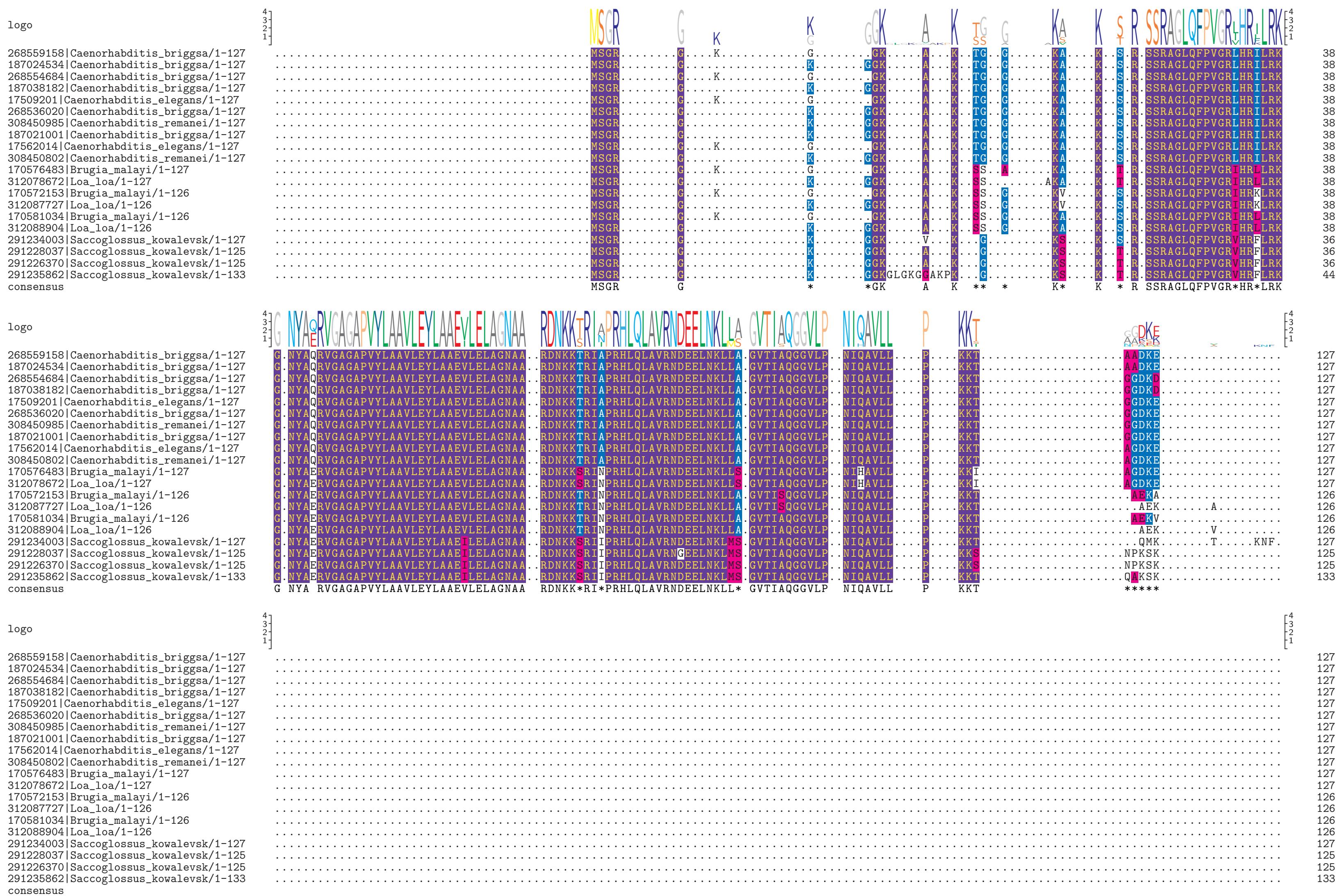


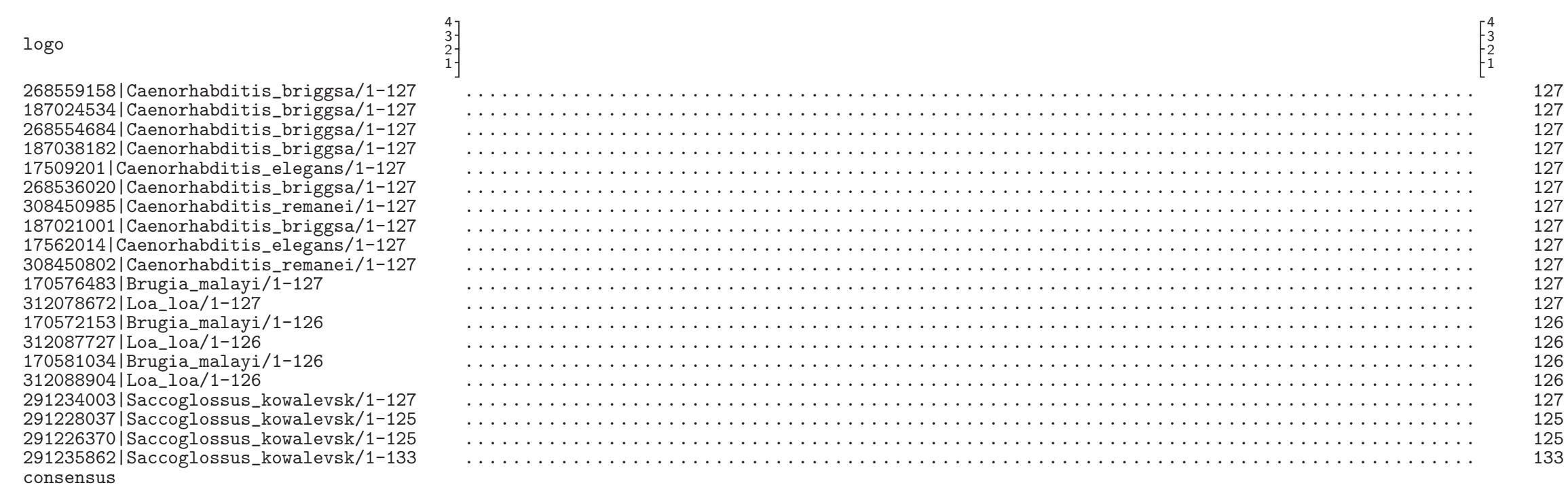




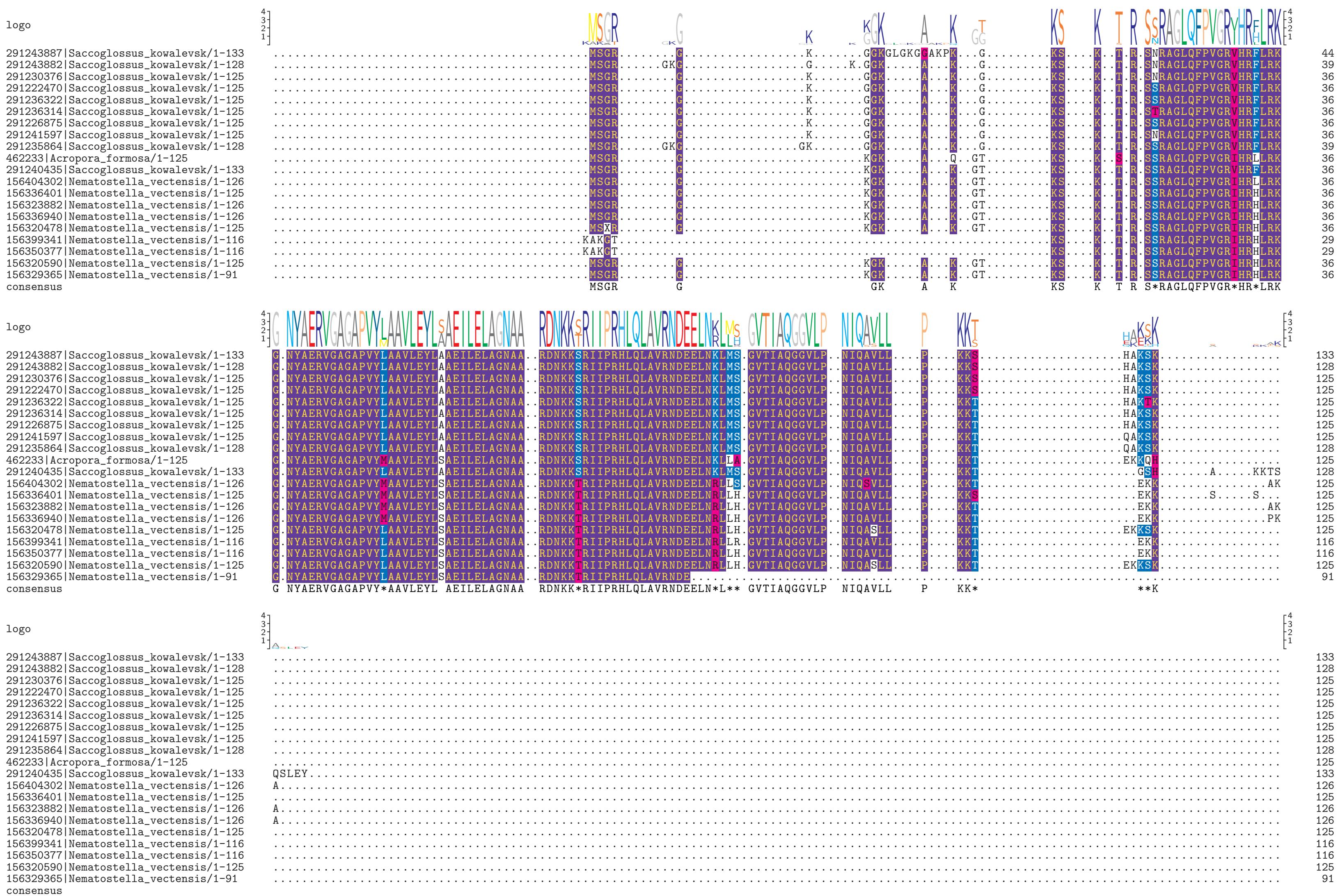


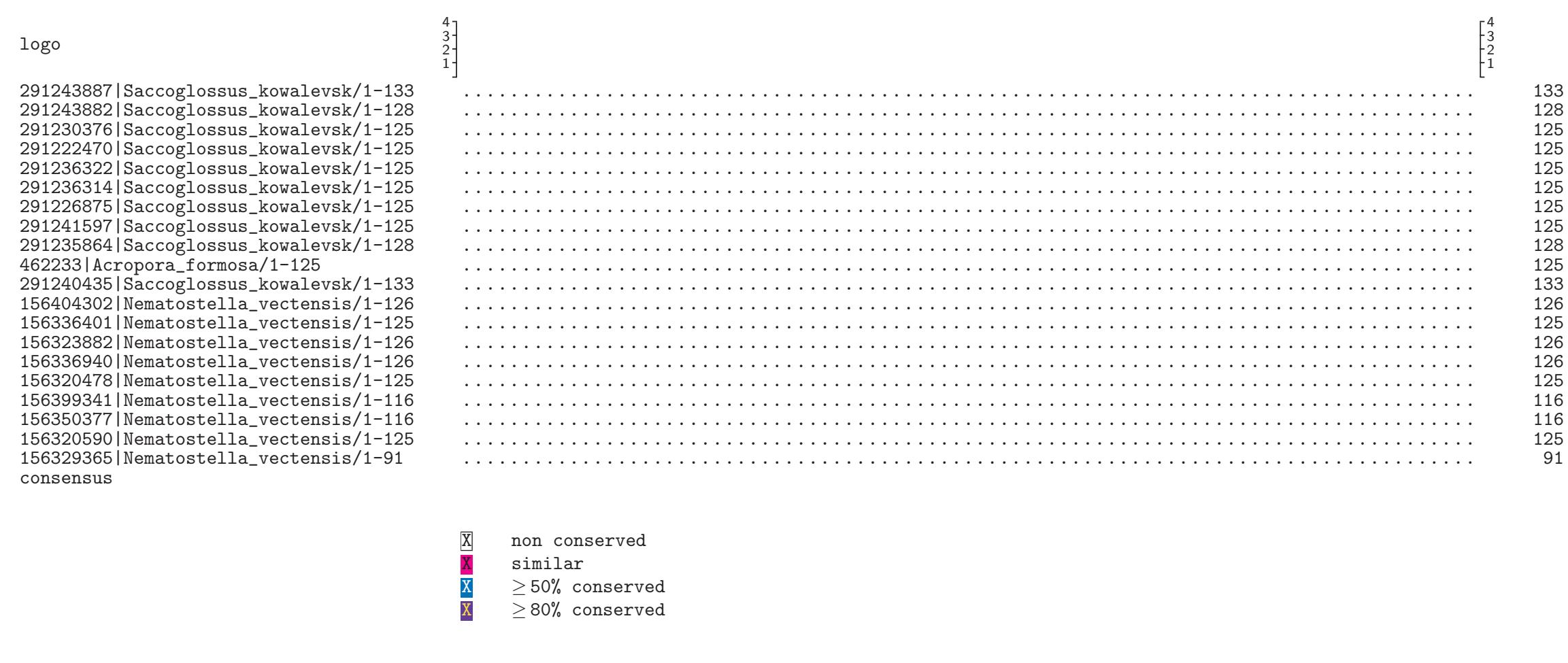
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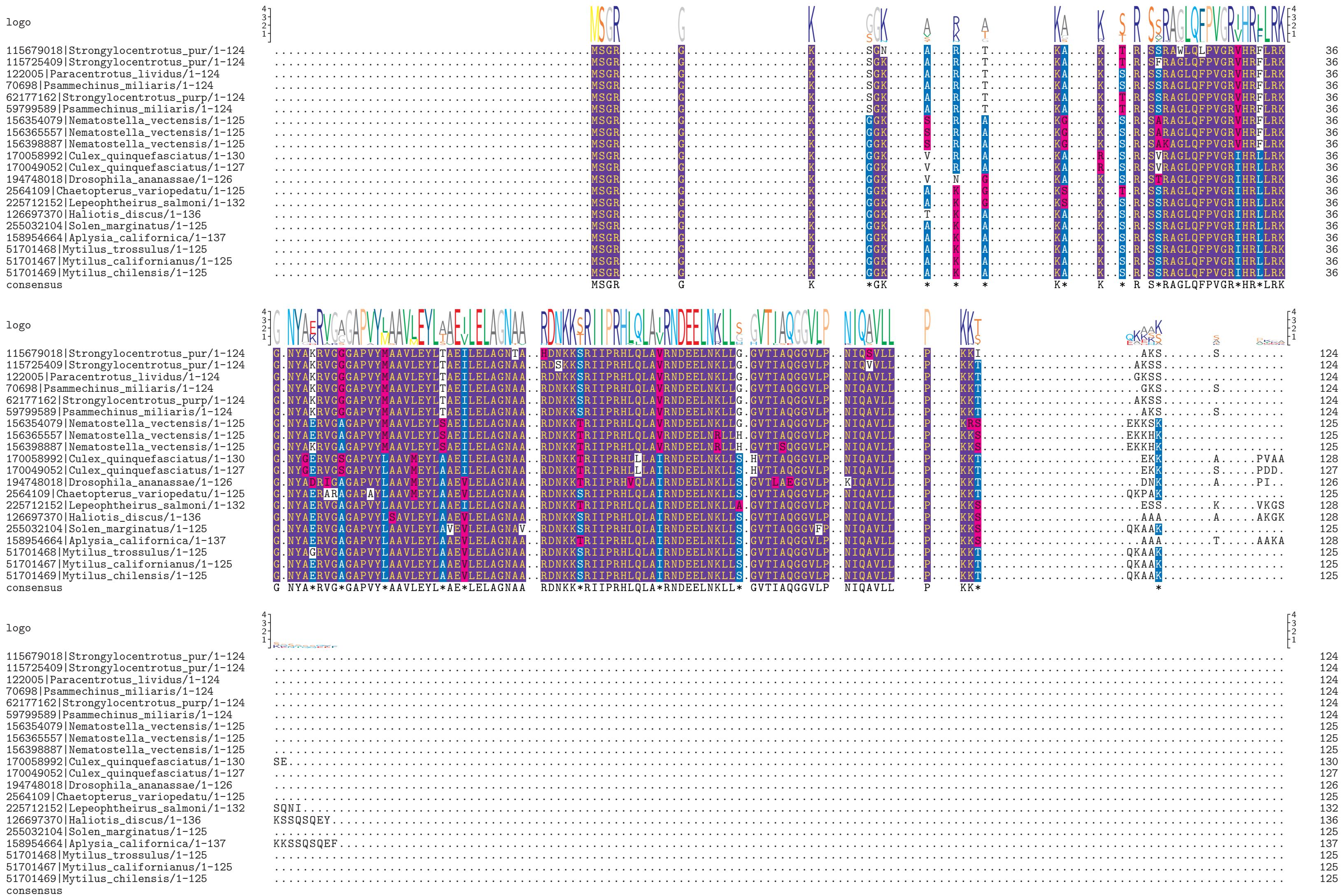


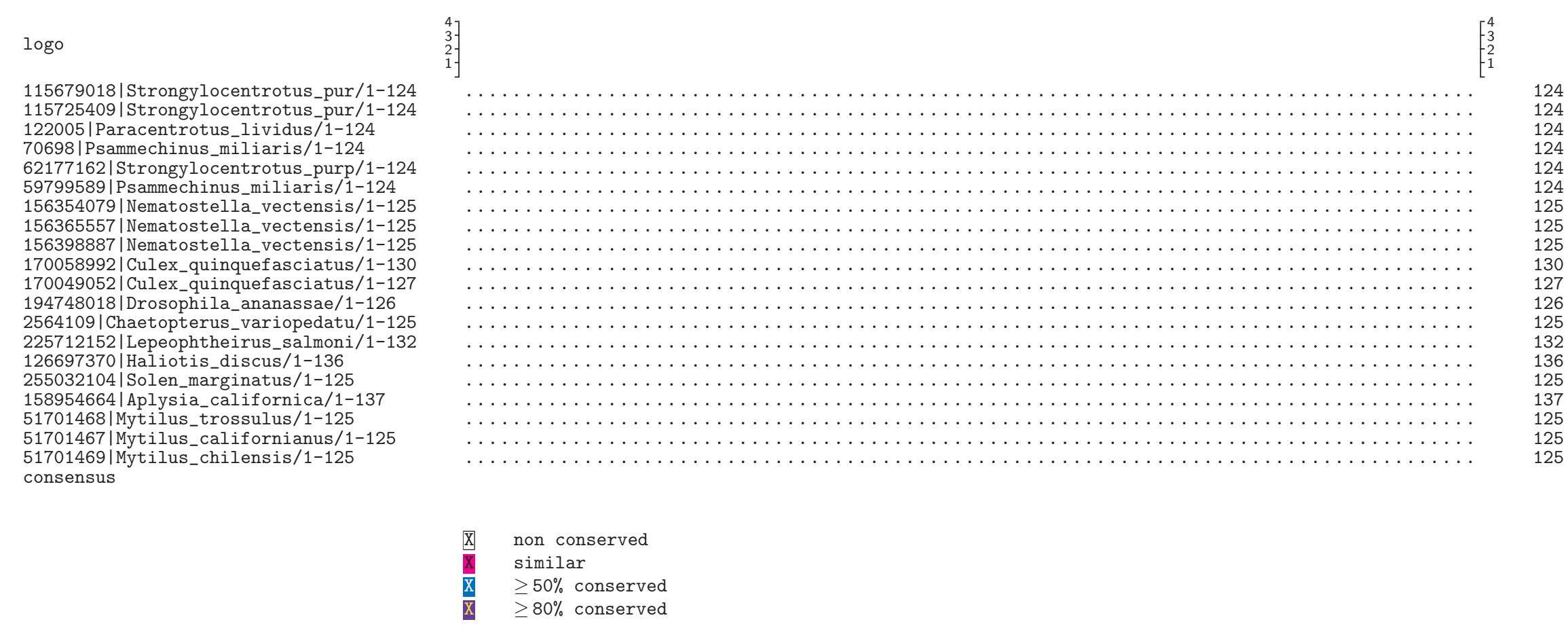


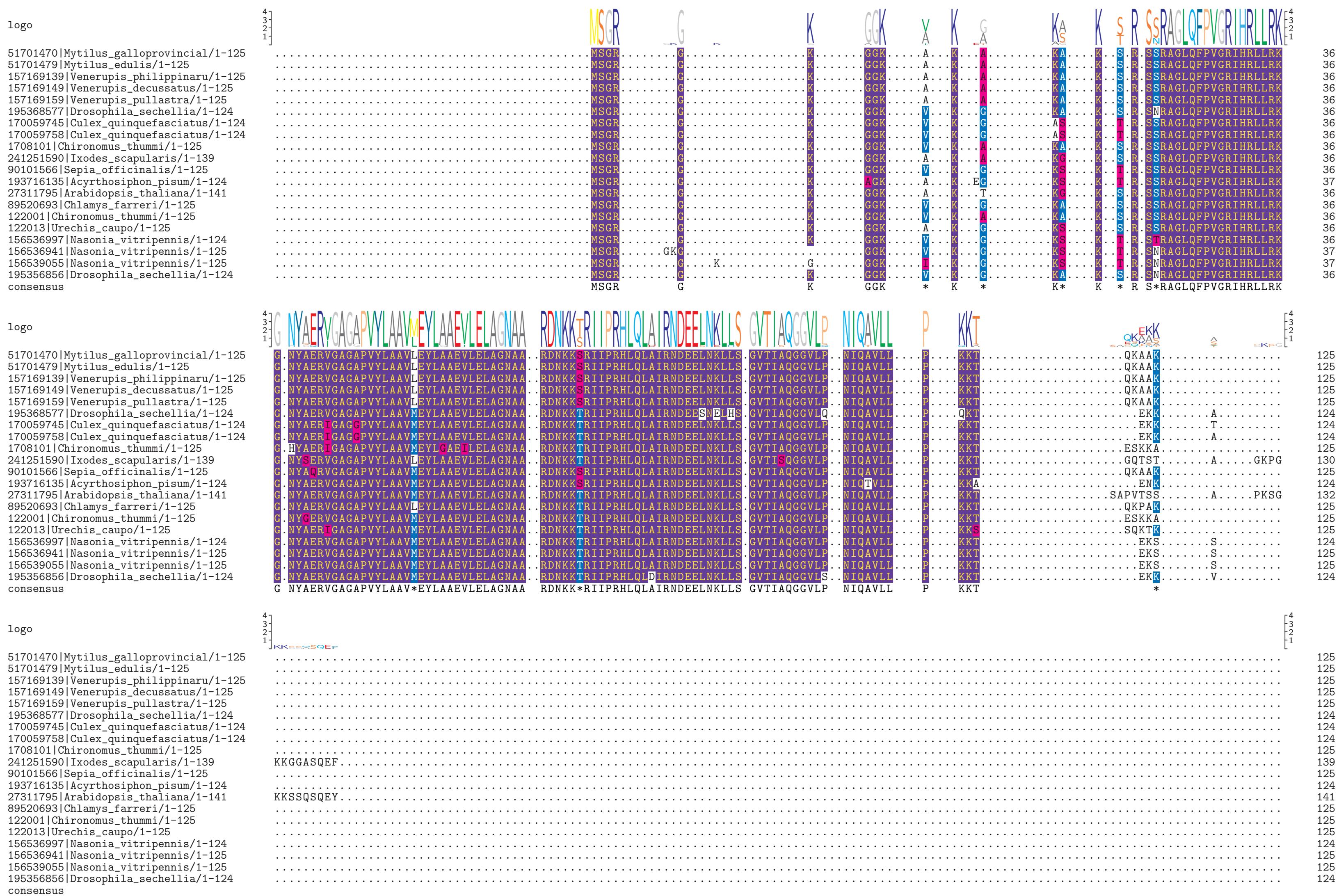
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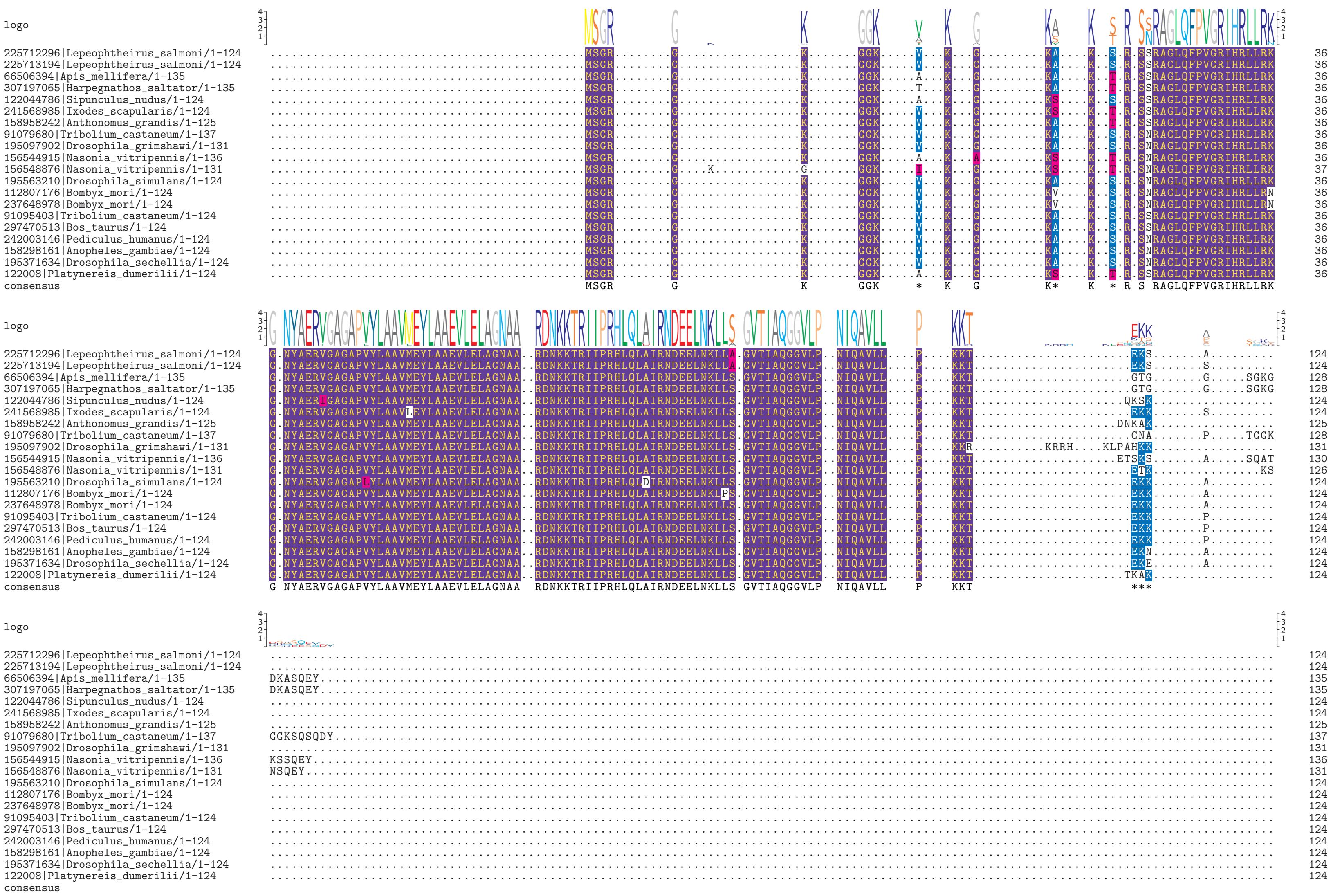


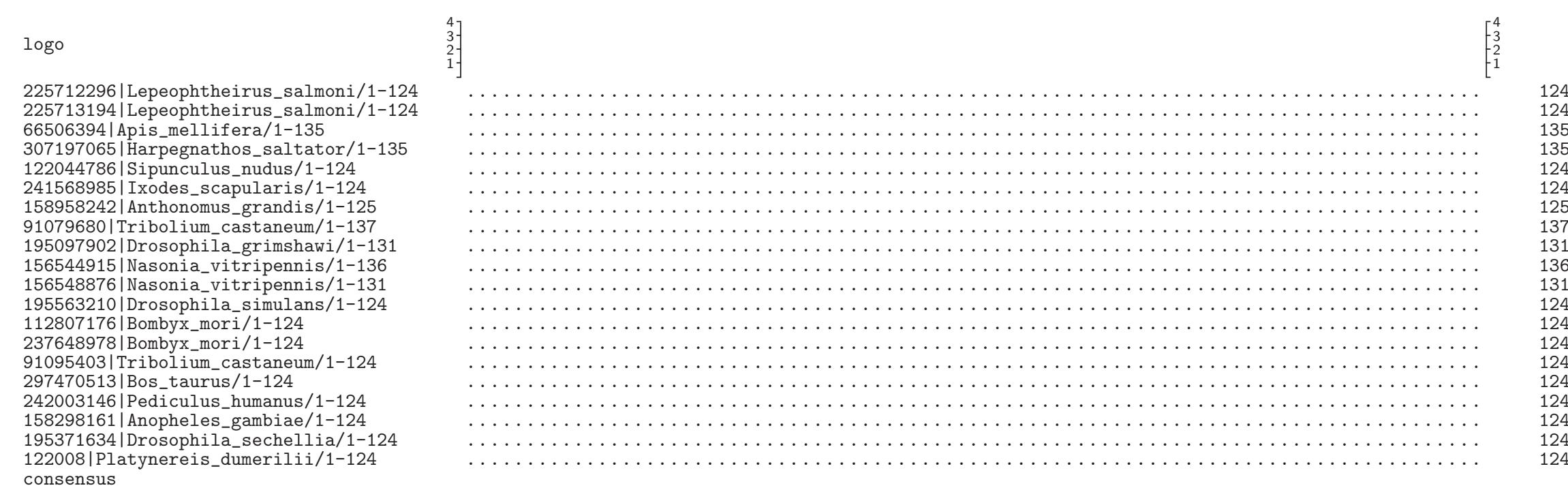




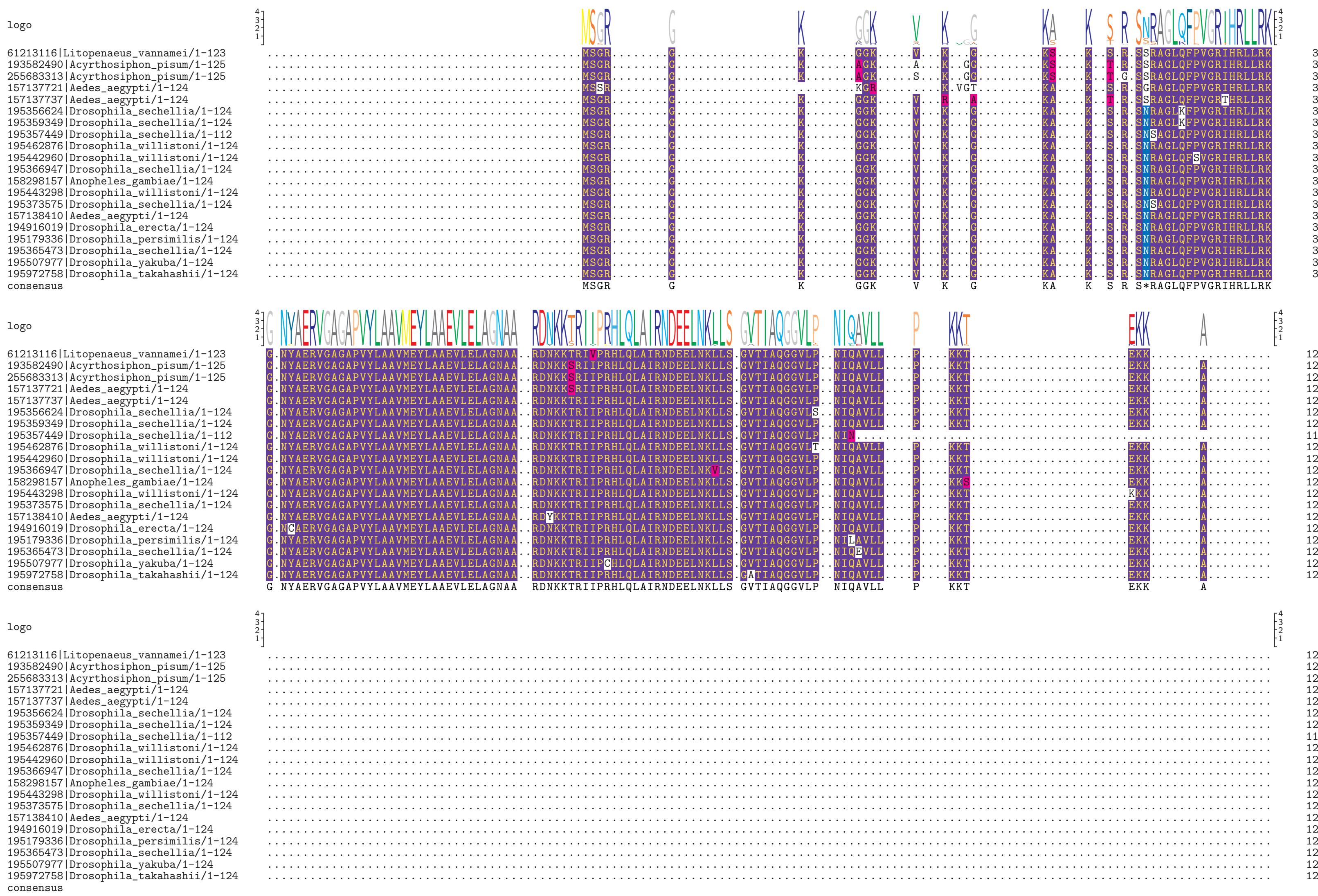
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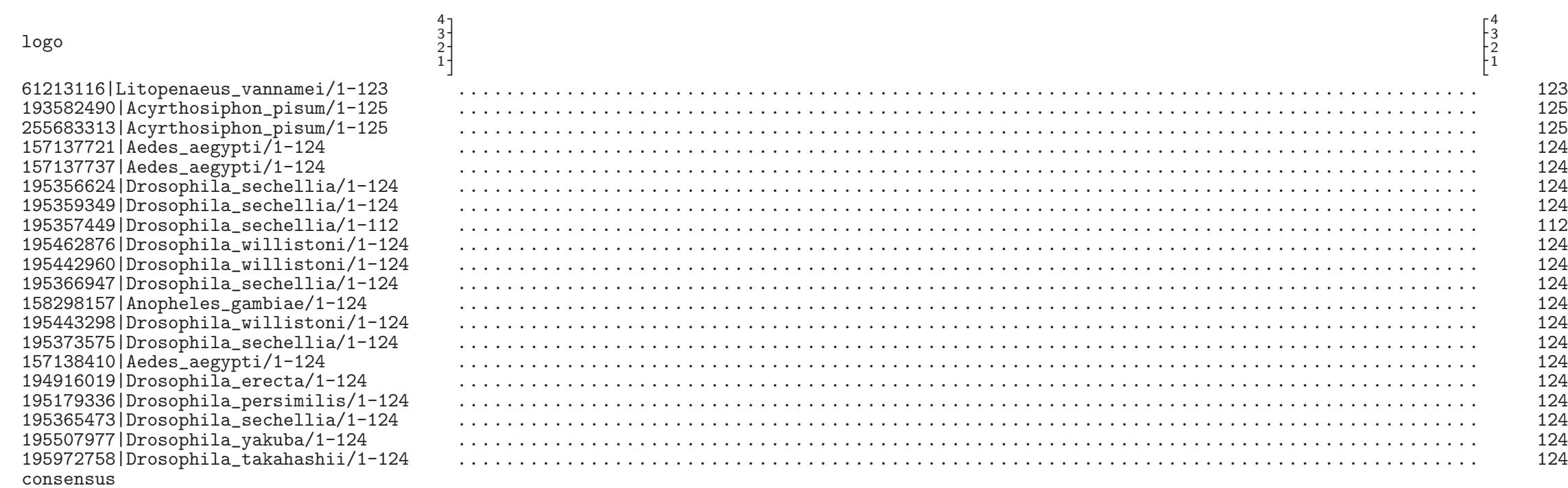
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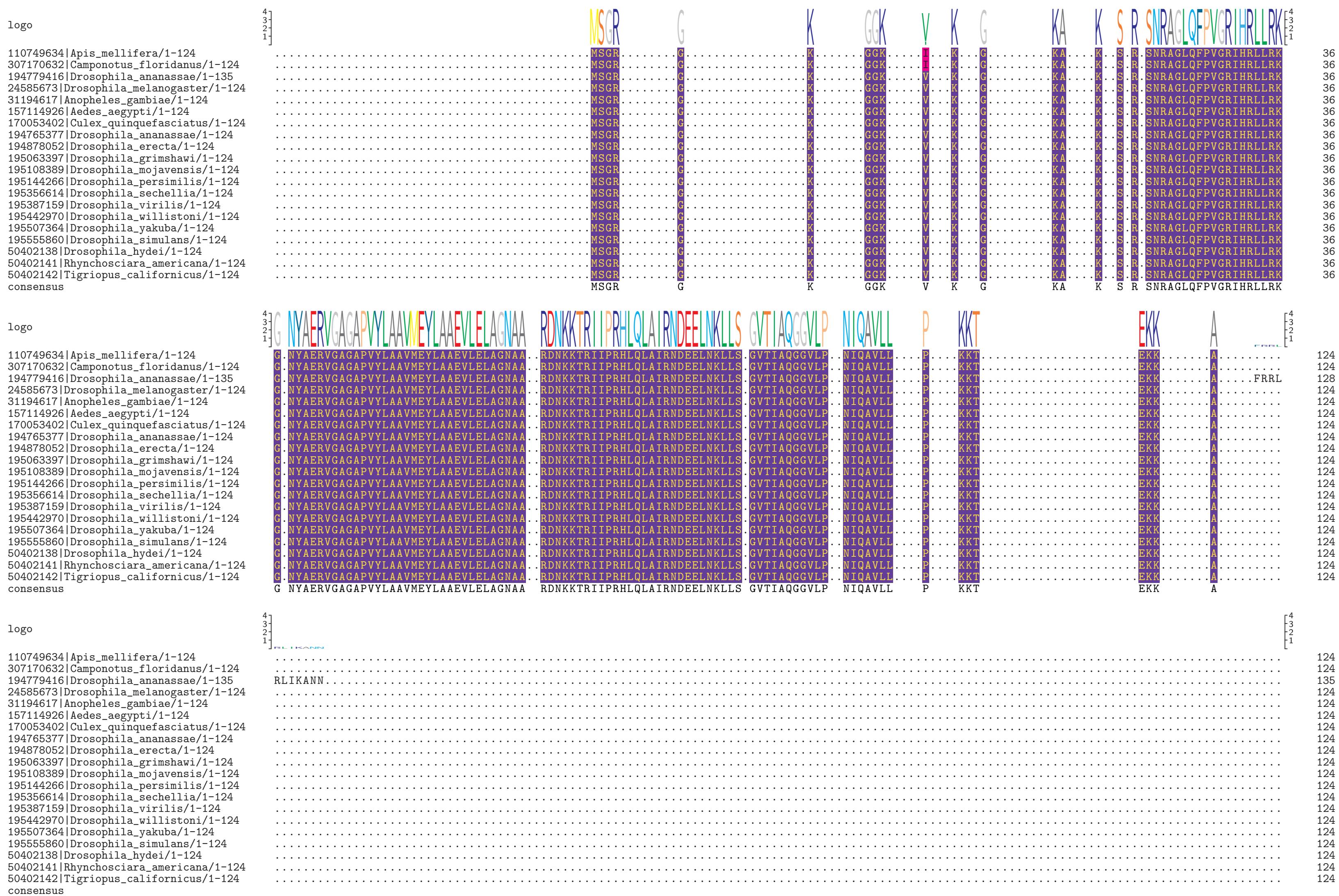


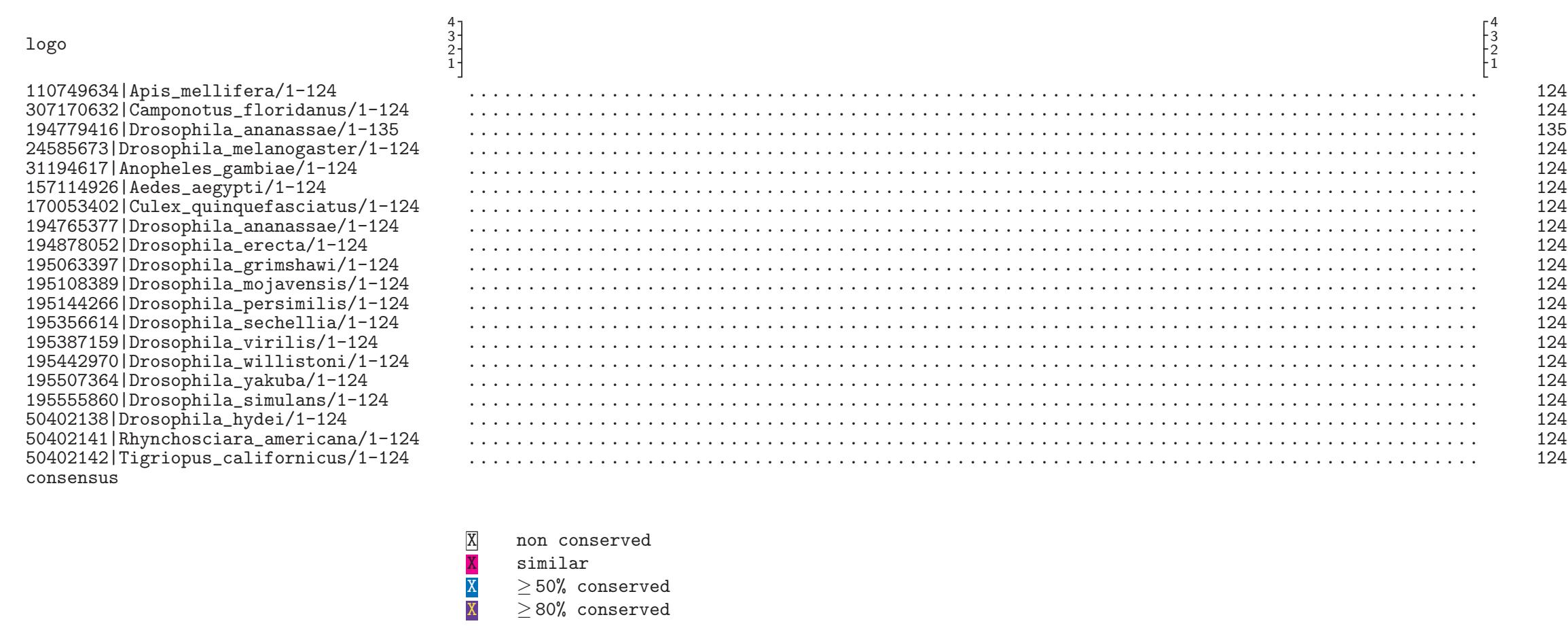
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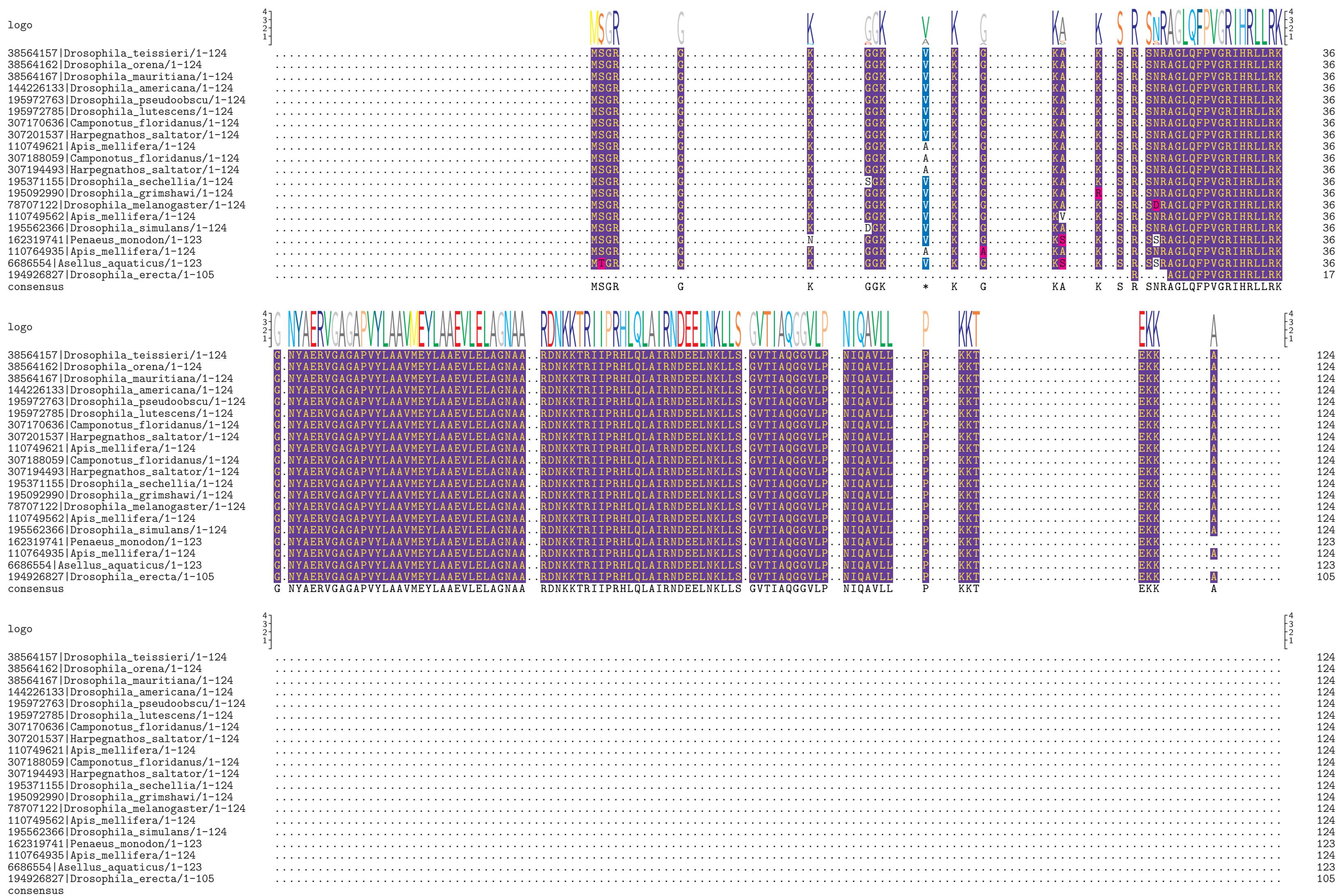


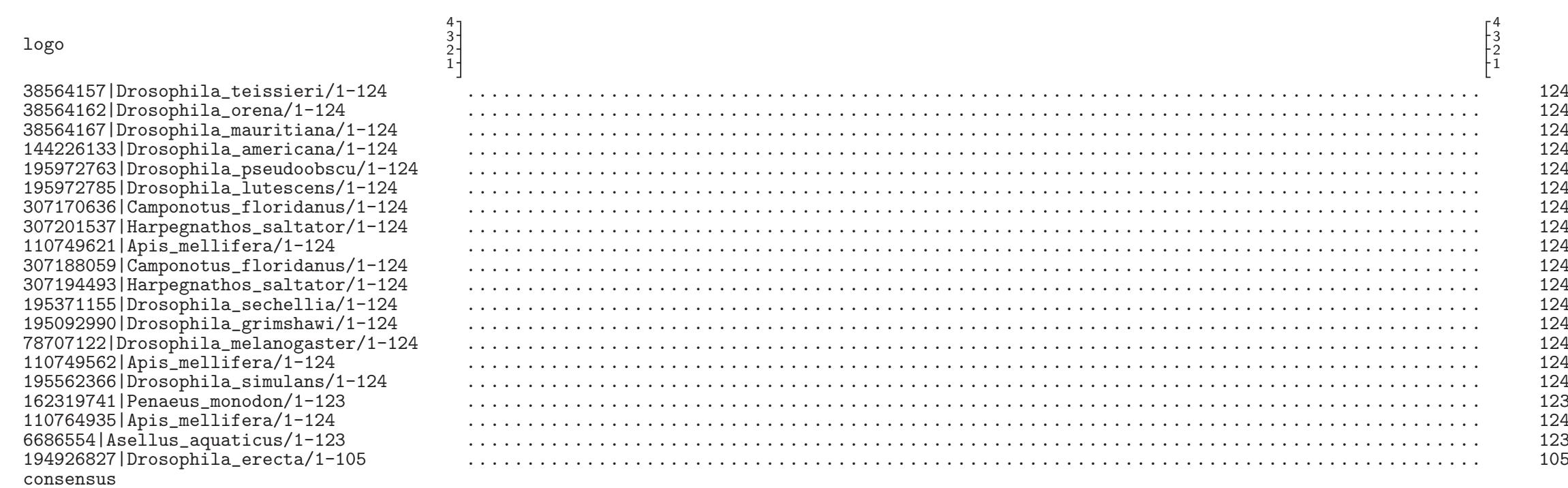


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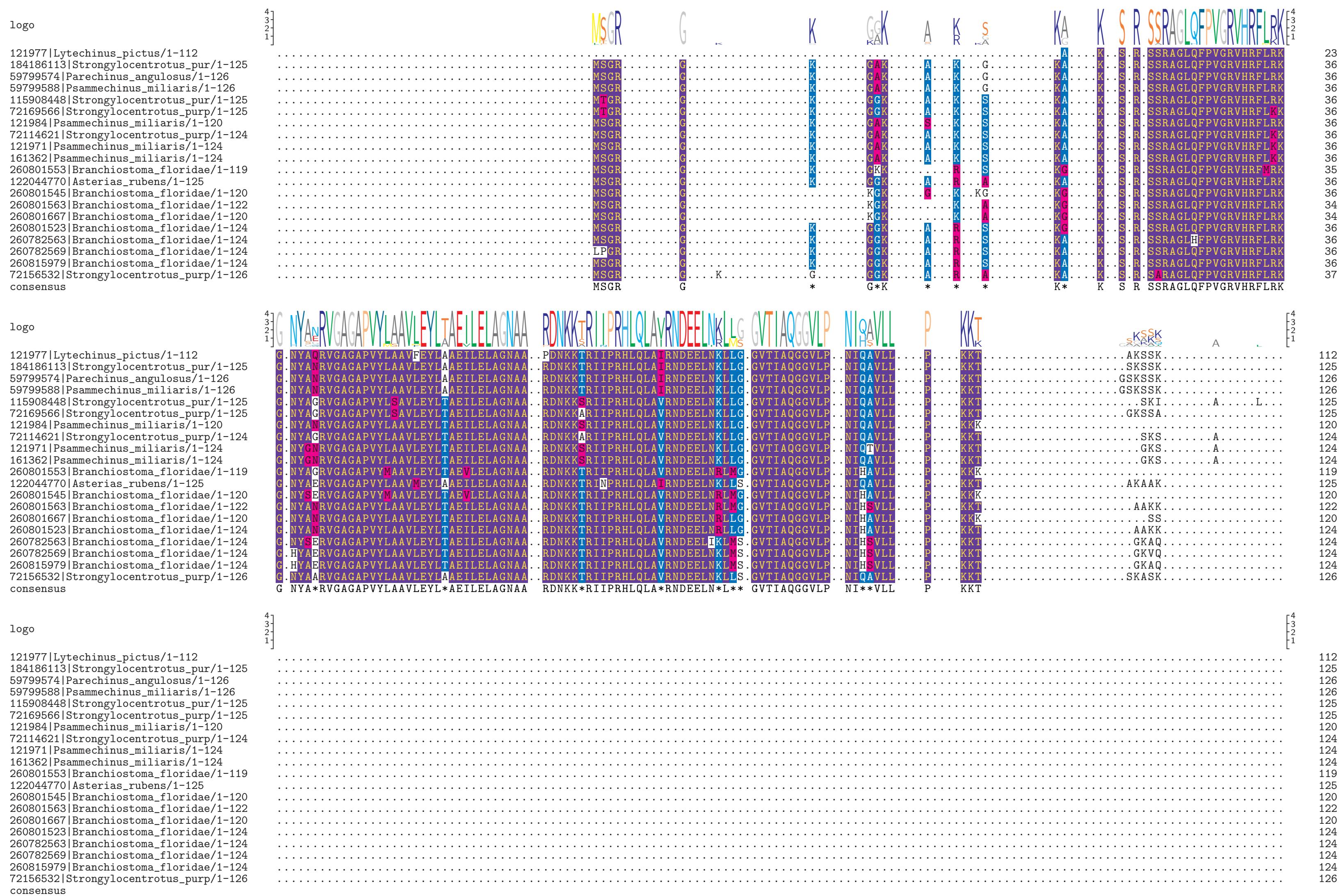


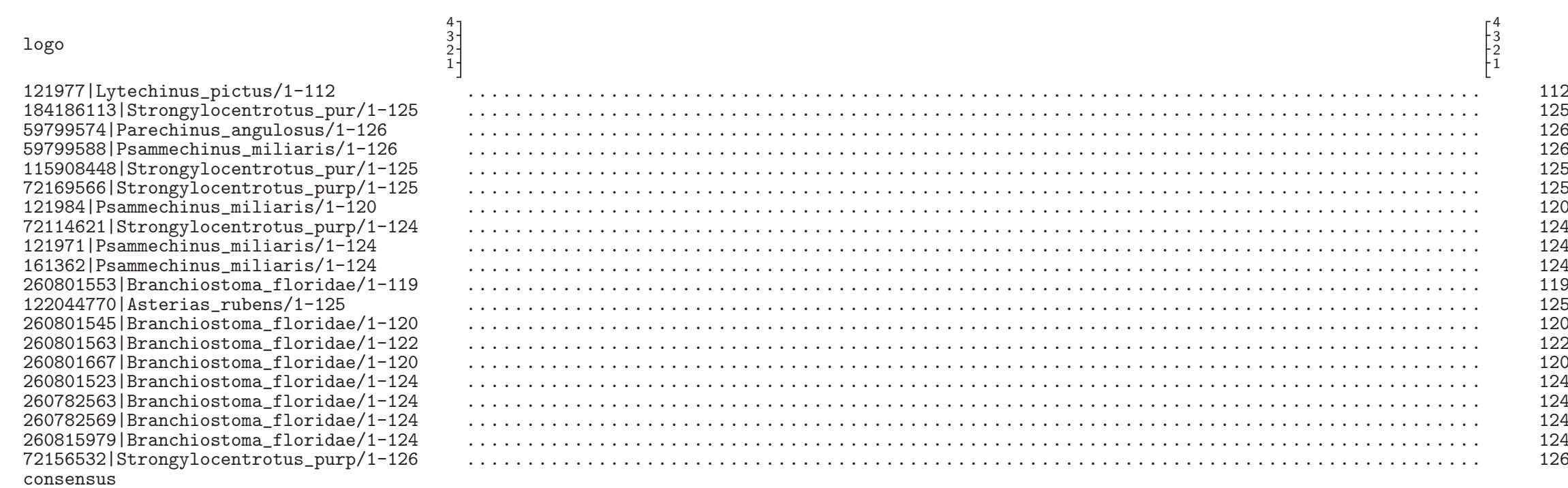






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