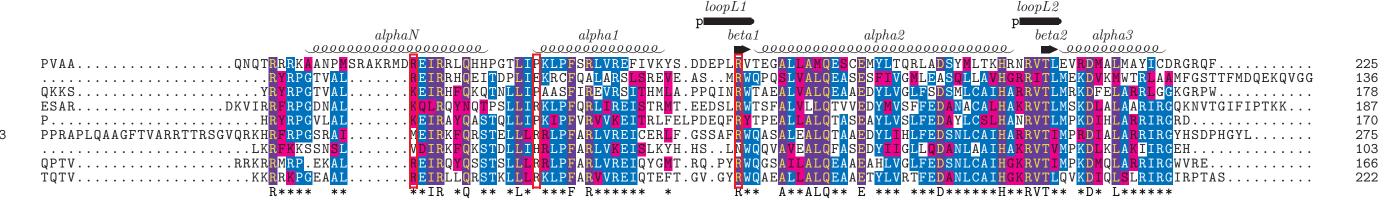
cenH3_updated_aligned.fasta

Drosophila|22024004|cenH3
Perkinsus|294874934|cenH3
Arabidopsis|18378832|cenH3
Tetrahymena|118356028|cenH3
Plasmodium|124513424|cenH3
Cyanidioschyzon|544210412|cenH3
Guillardia|13794280|cenH3
Thallassiosira|223995905|cenH3
Phytophthora|695416328|cenH3
consensus



Drosophila|22024004|cenH3
Perkinsus|294874934|cenH3
Arabidopsis|18378832|cenH3
Tetrahymena|118356028|cenH3
Plasmodium|124513424|cenH3
Cyanidioschyzon|544210412|cenH3
Guillardia|13794280|cenH3
Thallassiosira|223995905|cenH3
Phytophthora|695416328|cenH3
consensus



Drosophila|22024004|cenH3
Perkinsus|294874934|cenH3
Arabidopsis|18378832|cenH3
Tetrahymena|118356028|cenH3
Plasmodium|124513424|cenH3
Cyanidioschyzon|544210412|cenH3
Guillardia|13794280|cenH3
Thallassiosira|223995905|cenH3
Phytophthora|695416328|cenH3
consensus

. 187 . 170 . 275 . 103 . 166 . 222

225

137

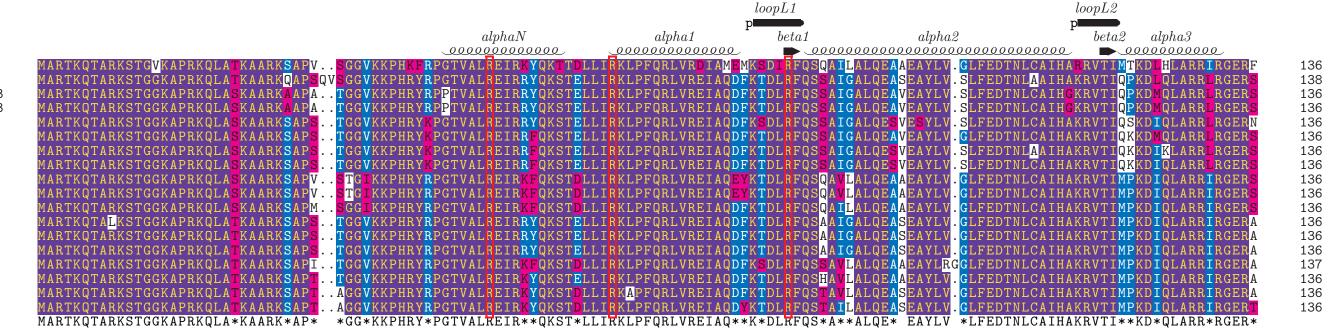
178

 $fordsymbol{\overline{X}}$ non conserved similar $fordsymbol{\overline{X}}$ $\geq 50\%$ conserved $\geq 80\%$ conserved

1

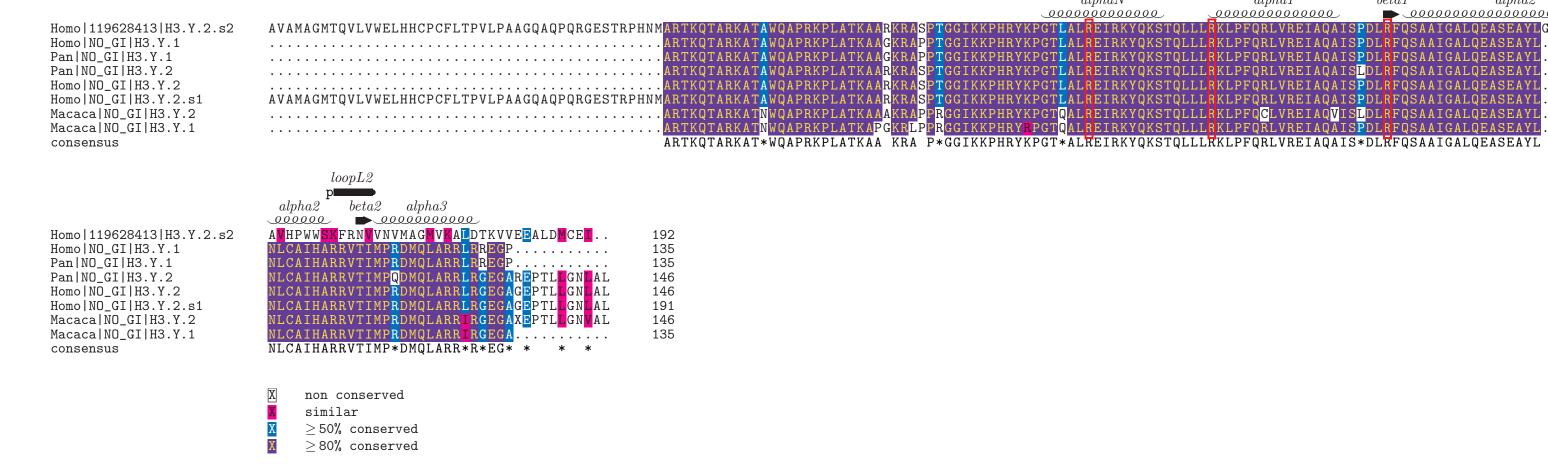
H3.3_aligned.fasta

Tetrahymena|118350232|H3.3
Crypto|58260270|H3.3
Schizosaccharomyces|122076|H3.3
Schizosaccharomyces|122076|H3.3
Trichoderma|589115521|H3.3
Candida|68484797|H3.3
Saccharomyces|6319482|H3.3
Debaryomyces|50408553|H3.3
Plasmodium|82594554|H3.3
Plasmodium|82594554|H3.3
Toxoplasma|22476750|H3.3
Homo|51859376|H3.3
Drosophila|17530867|H3.3
Drosophila|17530867|H3.3
Griffithsia|32401039|H3.3
Arabidopsis|15236103|H3.3
Thallasiosira|224009486|H3.3
Phytophthora|301090188|H3.3



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

H3.Y_updated_aligned.fasta

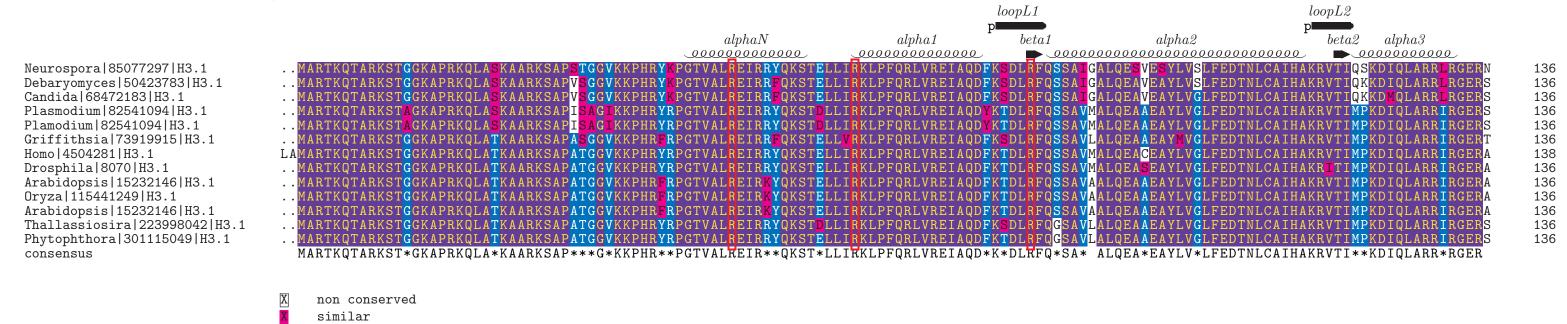


107

_00000<u>0</u>0000000

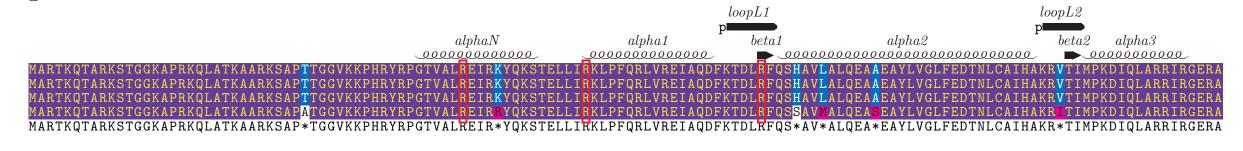
H3.1_updated_aligned.fasta

 \geq 50% conserved \geq 80% conserved



H3.2_updated_aligned.fasta

Arabidopsis|15236103|H3.2 Oryza|115453351|H3.2 Selaginella|302792052|H3.2 Drosophila|8070|H3.2 consensus



forall X non conserved similar forall X $\geq 50\%$ conserved forall 2 80% conserved