





cenH3.fasta

Drosophila|220240404|cenH3
Perkinsus|294874934|cenH3
Arabidopsis|18378832|cenH3
Tetrahymena|118356028|cenH3
Plasmodium|124513424|cenH3
Cyanidiosischyzon|544210412|cenH3
Guillardia|13794280|cenH3
Thalassiosira|223995905|cenH3
Phytophthora|1695416328|cenH3
consensus

MPRHRSRA	RAPRPSANNSKSPN	DDDTAFRSPE	PDGTDYGLEI	TSQTLIQDNNRRSSSTLR	RADAGRRQPAARDSST	SGEEDQENRYPT	TRSPQT	RMVTVQ	QESKTRAA	110
MART	HRVTRSQ	PRNQDAAGAS	SSQAAGPTTTPTRRG	EGDNTQQTNTPT	SPATGT	RGAKSR	QAMPRGS	LCGGGKVP	TAKKRPQFV	117
MANKAYQK	RRSNSNQQR	DSLKKNNQDLNRKS	ENQQGKKND	IQDQNRN	ASTK	KRESSG	GEKY	AG	NRQGGKND	70
MVRT	KNI	PNNHPLNAFNR	DKSPKNTKLPNTRVH	GISSTKT	TINRNP	VNRGGIN	EVAAQ	NLHRTN	IRK	70
MVRVFGNPVGGAHQHYRQTQALNRDESL	LEQLQRTTVAEQDENIEPEPERSSPDEAQS	RLKSLG	LRVAVP	PGGSVLS	NLAETRLTTEEAANRPTGAGRSEV	SGRAEPL	PGPP	TATTNAD	VRQLGS	145
MARA	MP	PGSSSSSARRRND	PLLGRARERESS	MMKKQN	ACGGGRLS	SAGS	AAAGGG	ERPR	GPPTS	61
MASP	PPALPASDASSSVSDSGTDDSTPPNPSP	QGRSPSPFAA	RGPAARARAPPAAPSSVSSASTSP	PPNLPARRPSVA	PVGRQAAI	HATP	APPRKR	ATPP	RRPSSPA	116
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Drosophila|22024004|cenH3 PVAA.....NQNT**RR**KA**NP**SR**AK**RM**D****E**IR**L**QH**PG**T**I****K**LP**S**LR**VR**EFIVKY**S**.DDEPL**R**VT**E**GA**LL**A**Q**ES**CM**Y**IT**Q**RL**AD**SY**LT**K**IR**NR****VT**EV**DM**AL**MA**Y**IT**CD**R**GR**Q**F..... 225
 Perkinsus|294874934|cenH3.....Y**RP**GT**VA**L.....**E**IR**R**H**Q**ET**DP**LR**K**Q**AL**A**RS**LR**VE**LA**S**.M**W**PP**Q**SL**VA**LQ**EA**SS**FG**LV**GL**EA**SL**VA**LR**HT**IT**LM**ED**K**VI**W**TR**LA**MF**GS**TT**FMD**Q**E**K**Q**V**GG 136
 Arabidopsis|18378832|cenH3.....Y**RP**GT**VA**L.....**E**IR**H**Q**K**Q**T**N**LL**IA**AS**E**IR**EV**RS**IT**TH**MA**A**.P**Q**PI**NR**WT**AE**AL**VA**LQ**EA**AD**Y**LV**GL**FS**DS**ML**CA**IR**HT**VL**MR**K**DF**EL**AR**LG**CK**GR**WP**..... 178
 Tetrahymena|118356028|cenH3 ESAR.....DKVIR**FP**GD**N**AL.....**K**Q**IR**Q**YN**Q**PS**LL**IK**LP**Q**LR**IT**RE**IT**RM**T**.EED**SL**WT**S**F**AL**LV**TV**VD**Y**W**S**F**ED**NA**LC**HA**IR**VT**LS**K**D**IAL**AR**IG**R**Q**KN**VT**G**IF**IT**PK..... 187
 Plasmodium|124513424|cenH3 P.....HY**RP**GV**LA**L.....**E**IR**TA**Q**AST**QL**LI**K**P**EV**RV**V**K**IR**LF**EL**PD**EQ**PR**Y**TE**AL**Q**CA**SS**AY**LV**LF**ED**AY**LC**SH**AN**IR**VT**LM**PK**D**HL**IA**R**IR**GR**D..... 170
 Cyanidioschyzon|544210412|cenH3 PPRAP**LQ**AA**GT**VAR**RT**TRSG**V**Q**R**K**H**.....**F**RP**GS**RA**T**.....**E**IR**K**Q**R**ST**ELL**LR**RL**PA**RL**VR**EI**CE**R**.G**SS**AP**AS**LE**AL**Q**CA**AA**SY**LV**HL**FE**DS**SN**LC**AI**AR**VT**MP**D**IL**AL**AR**IG**Y**HS**DP**H**GY**L..... 275
 Guillardia|13794280|cenH3.....L**K**Q**R**K**SS**N**SL**.....**V**DR**K**K**Q**ST**DL**LR**PL**PA**RL**V**K**IS**LY**KH**S**.L**W**Q**Q**V**EA**LQ**EA**AS**Y**LV**GL**Q**DA**NA**AI**HA**IR**VT**MP**D**IL**AL**AR**IG**H**..... 103
 Thallassiosira|223995905|cenH3 QPT**V**.....RR**K**R**MP**.**E**K**AL**.....**E**IR**Q**Q**ST**S**LL**LR**LP**PA**RL**VR**EI**Q**Y**GT**IR**.H**S**.P**Y**W**Q**GS**AL**ALQ**EA**AA**HL**LV**GL**F**ED**SN**LC**AI**IR**GT**MP**K**D**ML**AR**IG**R**W**VR**E..... 166
 Phytophthora|695416328|cenH3 TQT**V**.....KK**R**Q**GE**AA**L**.....**E**IR**L**R**Q**ST**SL**LR**LP**PA**RL**VR**EI**Q**TE**FT**G**.G**Y**W**Q**AE**AL**ALQ**EA**AA**TY**LV**RT**FE**DS**SN**LC**AI**IR**GT**MP**K**D**ML**AR**IG**R**PT**AS**..... 222
 consensus R*** ** **IR *Q ** *L* ***F R***** * R** A**ALQ** E *** **D*****H**V**T** *D* L*****

Drosophila 22024004 cenH3		225
Perkinsus 294874934 cenH3	T	137
Arabidopsis 18378832 cenH3		178
Tetrahymena 118356028 cenH3		187
Plasmodium 124513424 cenH3		170
Cyanidioscythus 544210412 cenH3		275
Guillardia 13794280 cenH3		103
Thalassiosira 223995905 cenH3		166
Phytophthora 695416328 cenH3		222
consensus		

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