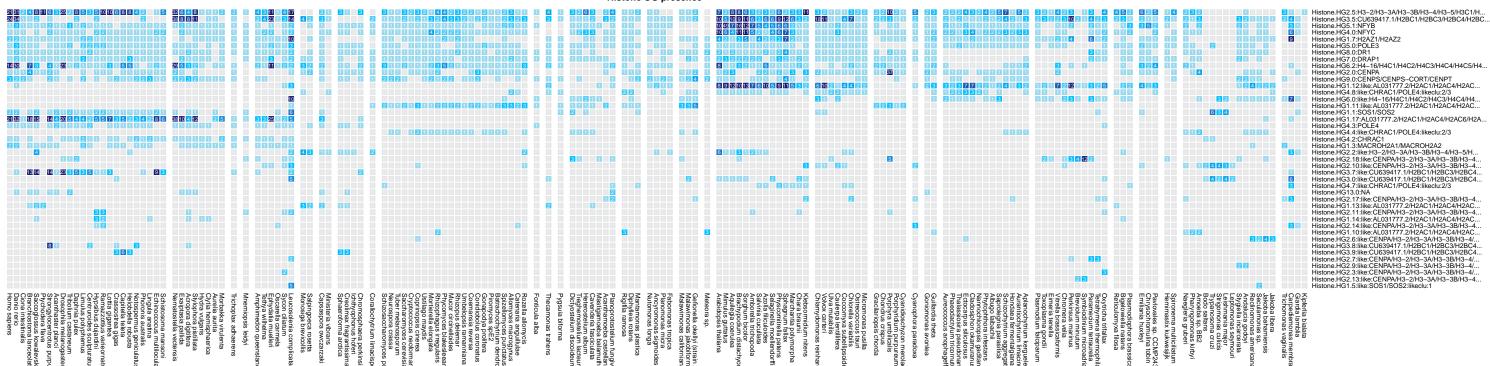
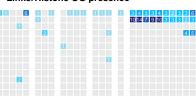
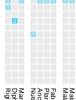
## **Histone OG presence**



## LinkerHistone OG presence

















## Acetyltransf\_1 OG presence



### Company of the co

## GNAT\_acetyltr\_2 OG presence

## Hat1\_N OG presence

## KAT11 OG presence

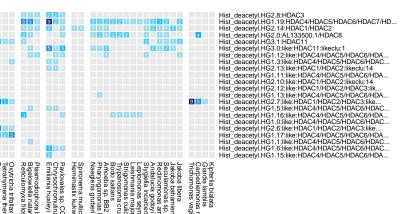
# Ciardia lambila Cappedismonas wagnalis Jakoba baharniensis Seculamonas sperioranifera Jakoba baharniensis Seculamonas speriorania Septimonas speriorania Andalucia godoyi Sygleta incarcerata Leptomonas speriorania Septimonas subelisis Seculamonas speriorania Septimonas subelisis Seculamonas speriorania Septimonas culcisis Seculamonas speriorania Septimonas culcisis Seculamonas speriorania Septimonas culcisis Seculamonas speriorania Septimonas culcisis Seculamonas culcisis Leptomonas posta Leptomonas culcisis Leptomonas posta Leptomonas portiora relia Seculamonas reinamonas Leptomonas pondi Leptom

MOZ\_SAS.HG1.2:KAT6A/KAT6B/KAT7 MOZ\_SAS.HG1.4:KAT5 MOZ\_SAS.HG1.5:KAT8 MOZ\_SAS.HG1.6:like:KAT5/KAT8:likeclu:4/5 MOZ\_SAS.HG1.7:like:KAT5/KAT8:likeclu:4/5 MOZ\_SAS.HG1.8:like:KAT5/KAT8:likeclu:4/5 MOZ\_SAS.HG1.3:like:KAT5/KAT8:likeclu:4/5

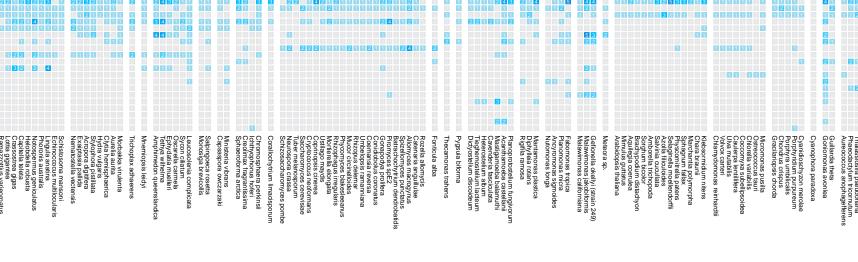
MOZ\_SAS OG presence

	3 2 4 2 3 2 3 2 1 1 1 1 1 1 2 1 0 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0	2 2 1 1 1 1 0 0 0 0 0 0	2 1 4 2 2 5 1 1 2 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0	2 1 1 1 1 1 0 0 0 0 0 0	1 1 1 0 1 0 0 0 0 0 0 0		1 1 0 0			0 0 0 0	1 2 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 1 2 2
Schistosoma mansoni Echinoccous multioni echinocis echinoc	Morbakka virulenta Aurelia auria Clyta hemisphaerica Hydra vulgaris Stylophora pistillata Acopora digitiera Exaiphasia palitida Nematostella vectensis	Mnemiopsis leidyi Trichoplax adhaerens	Leucosolenia complicata Sycon ciliatum Oscarella camela Ephydatia muelleri Tethya wilhelma Amphimedon queenslandica	Salpingoeca rosetta Monosiga brevicollis	Ministeria vibrans Capsaspora owczarzaki	Chromosphaera perkinsii Ichthyophonus hoferi Creolimax fragrantissima Sphaeroforma arctica	Corallochytrium limacisporum	para actro dyvitum derut obariuos From yoos spiez o Gonapodya prolifera Conidobolus coronatus Corindansia lewe isa Imbeliopasis amanniana Mizopus deleminar Mizopus deleminar Mizopus deleminar Mizopus deleminar Mizopus deleminar Mizopus deleminar Mizopus deleminar Mizopus deleminar Mizopus deleminar Septimospies carevisiae La carinda deleminar Septimospie a crassa Septimospie a crassa New porta crassa New porta New porta crassa New porta New porta New porta New porta N	Rozella allomycis Catenaria anguillulae Allomyces macrogynus Spizellomyces punctatus	Fonticula alba	Thecamonas trahens	avenderia fas leterostelium leghemosteliu ictyostelium o

## 



## SIR2 OG presence



1 3 1 1 1 0 1 1 0 0 0 1 0

SIR2.HG2.1:SIRT4/SIRT5

SIR2.HG3.1:SIRT6

SIR2.HG3.1:SIRT6

SIR2.HG3.1:SIRT6

SIR2.HG3.1:SIRT6

SIR2.HG3.0:SIRT7

SIR2.HG3.0:SIRT7

SIR2.HG3.0:SIRT7

SIR2.HG3.0:SIRT7

SIR2.HG3.0:SIRT7

SIR2.HG3.0:SIRT5-SIREcdu:12/14

SIR2.HG3.0:SIRT5-SIRT2/SIRT3-SIREcdu:12/14

SIR2.HG3.0:SIRE-SIRT2/SIRT3-SIREcdu:12/14

SIR2.HG3.1:SiRe-SIRT2/SIRT3-SIREcdu:12/14

SIR2.HG3.1:SiRe-SIRT2/SIRT3-SIREcdu:12/14

SIR2.HG3.1:SiRE-SIRT2/SIRT3-SIREcdu:12/14

SIR2.HG3.1:SiRE-SIRT2/SIRT3-SIREcdu:12/14

SIR2.HG3.1:SiRE-SIRT2/SIRT3-SIREcdu:12/14

SIR2.HG3.1:SiRE-SIRT2/SIRT3-SIREcdu:12/14

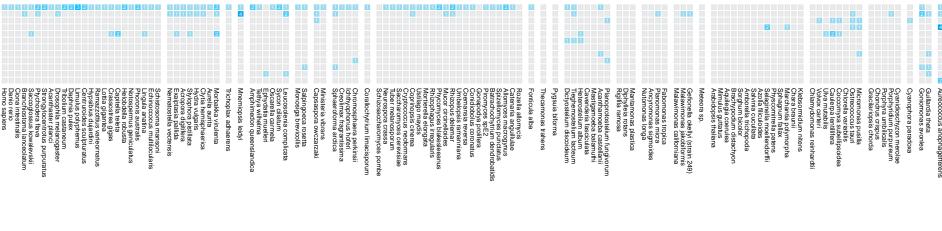
SIR2.HG3.1:SiRE-SIRT2/SIRT3-SIREcdu:12/14

SIR2.HG3.2:SiRE-SIRT2/SIRT3-SIREcdu:12/14

SIR2.HG3.5:SiRT2/SIRT3-SIREcdu:12/14

SIR2.HG3.5:SiRT2/

## DOT1 OG presence



DOT1.HG1.13:DOT1L
DOT1.HG1.10:like:DOT1L:likeclu:13
DOT1.HG1.11:like:DOT1L:likeclu:13
DOT1.HG1.11:like:DOT1L:likeclu:13
DOT1.HG1.21:like:DOT1L:likeclu:13
DOT1.HG1.12:like:DOT1L:likeclu:13
DOT1.HG1.12:like:DOT1L:likeclu:13
DOT1.HG1.81:like:DOT1L:likeclu:13
DOT1.HG1.91:like:DOT1L:likeclu:13
DOT1.HG1.51:like:DOT1L:likeclu:13
DOT1.HG1.7:like:DOT1L:likeclu:13
DOT1.HG1.0:like:DOT1L:likeclu:13

## SET OG presence

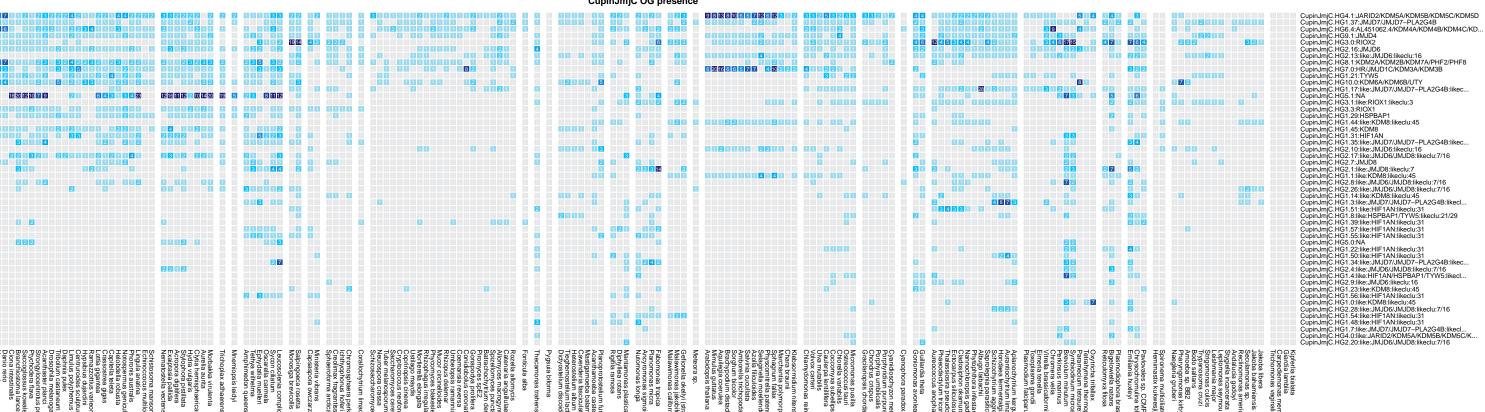
2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3					
					SET.HG2.8:SETD6   SET.HG2.8:SETD6   SET.HG2.8:SETD6   SET.HG2.19:like:SETD3/SETD4:likeclu: SET.HG4.10:ASH1.   SET.HG4.10:ASH1.   SET.HG4.10:ASH1.   SET.HG4.10:ASH1.   SET.HG4.0:Iike:MT2A/KMT2B/KMT2B/KMT2F.SET.HG7.0:SETD7   SET.HG3.20:like:KMT2A/KMT2B/KMT2B/SET.HG4.3:like:SMY01/SMY02/SMY0SET.HG4.3:like:SMY01/SMY02/SMY0SET.HG4.3:like:SMY01/SMY02/SMY0SET.HG4.3:like:SMY01/SMY02/SMY0SET.HG4.9:like:like:Like:Like:Like:Like:Like:Like:Like:L
					SET.HG2.7:like:SETD6:likeclu:8 SET.HG3.15:like:MT2A/KMT2B/MT2 SET.HG10.1:NA SET.HG4.1:like:ASH1U/KMT2E/NSD1/ SET.HG3.1:like:ASH1U/KMT2E/NSD1/ SET.HG8.0:like:EZ11/EZ14Z-likeclu:1 SET.HG8.0:like:EZ11/EZ14Z-likeclu:1 SET.HG3.1:like:SETD3/SETD4:likeclu:1 SET.HG3.1:like:SETD3/SETD4:likeclu:1 SET.HG3.1:like:SETD3/SETD4:likeclu:1 SET.HG3.1:like:MT2A/KMT2B/KMT2 SET.HG4.7:like:SMT0A/KMT2B/KMT2 SET.HG4.7:like:SMT0A/SETD4:likeclu:1 SET.HG4.7:like:SMT0A/SETD4:likeclu:1 SET.HG4.7:like:SMT0A/SETD4:likeclu:1 SET.HG4.7:like:SMT0A/SETD4:likeclu:1 SET.HG4.7:like:SMT0A/SETD4:likeclu:1 SET.HG4.7:like:SMT0A/SETD4:likeclu:1 SET.HG4.7:like:SMT0A/SETD4:likeclu:1 SET.HG4.7:like:SMT0A/SETD4:likeclu:1 SET.HG4.7:like:SMT0A/SETD4:likeclu:1
					SET.HG1.9ilke:SMVD1/SMVD2/SMVD SET.HG2.18ilke:SETD3/SETD4/ikeclu SET.HG2.41ilke:SETD3/SETD4/ikeclu SET.HG2.41ilke:SETD3/SETD4/ikeclu SET.HG2.24ilke:SETD3/SETD4/ikeclu SET.HG1.5ilke:SMVD1/SMVD2/SMV SET.HG1.61ilke:SMVD1/SMVD2/SMV SET.HG4.61ilke:SETD3/SETD4/ikeclu SET.HG4.61ilke:SETD3/SETD4/ikeclu SET.HG2.9ilke:SETD3/SETD4/ikeclu SET.HG2.9ilke:SETD3/SETD4/ikeclu SET.HG2.9ilke:SETD3/SETD4/ikeclu SET.HG2.9ilke:SETD3/SETD4/ikeclu
72 52 52 201					SET.HG1.2ilke.SMVD1/SMYD2/SMYD   SET.HG1.6ilke.SMVD1/SMYD2/SMYD   SET.HG1.6ilke.SMVD1/SMVD2/SMYD   SET.HG3.0ilke.SMVD1/SMVD2/SMYD   SET.HG3.0ilke.SMVD1/SMVD2/SMYD   SET.HG3.0ilke.SMVD1/SMVD2/SMYD2/SMYD2/SMYD2/SMYD1/SMVD2/SMYD1/SMVD2/SMYD1/SMVD2/SMYD1/SMVD1/SMVD2/SMYD1/SMVD1
20 0 2					SET.HG2.39:like:SETD3/SETD4:likeclu   SET.HG1.42:like:SMVD1/SMVD2/SMV     SET.HG1.62:like:SMVD1/SMVD2/SMV     SET.HG1.50:like:SMVD1/SMVD2/SMV     SET.HG3.6:like:KMT2A/KMT2B/KMT2C     SET.HG3.6:like:KMT2A/KMT2B/KMT2C     SET.HG4.4:like:SMVD1/SMVD2/SMV     SET.HG4.4:like:SMVD1/SMVD2/SMV     SET.HG5.2:like:KMT2A/KMT2B/KMT2C     SET.HG6.2:like:KMT3A:likeclur5     SET.HG6.2:like:KMT3A:likeclur5     SET.HG6.3:like:SMVD1/SMVD2/SMV     SET.HG3.3:like:SMVD1/SMVD2/SMV     SET.HG3.3:like:SMVD1/SMVD2/SMV     SET.HG3.3:like:SMVD1/SMVD2/SMV     SET.HG3.3:like:SMVD1/SMVD2/SMV     SET.HG3.4:like:KMT2A/KMT2B/KMT2
8			1		SET.HG3.11:like:KMT2A/KMT2B/KMT2   SET.HG2.62:like:SETD3/SETD4:likeclu   SET.HG1.65:like:SEMD3/SETD4:likeclu   SET.HG1.65:like:SMYD1/SMYD2/SMY   SET.HG1.61:like:SMYD1/SMYD2/SMY   SET.HG1.61:like:Like:SMYD1/SMYD2/SMY   SET.HG3.14:like:KMT2A/KMT2B/KMT2   SET.HG2.13:like:SETD3/SETD4:likeclu   SET.HG2.13:like:SETD3/SETD4:likeclu   SET.HG6.17:like:KMT5A:likeclu:SET.HG6.17:like:SMYD5:likeclu:TMT5A:likeclu:SET.HG1.70:like:SMYD5:likeclu:TMT5A:likeclu:SET.HG1.70:like:SMYD5:likeclu:TMT5A:likeclu:SET.HG1.70:like:SMYD5:likeclu:TMT5A:Ilkeclu:TMT5A:Ilkeclu:T
Sycon ciliatum Oscarella camela Ephydatia muelleri Tethya willerima Amphimedon queensiandica Mmemiopsis leidyi Trichoplas adhaerens Mobakka virulenta Aurelia aurita della Lyria henisphaerica Hydra vulgaris Sylophora pistillata Auropora digitifica Exalpasia pallida Nematostella vectensis Schistosoma mansoni Echinococous multilocularis Lingula anatina Evalpasia pallida Nematostella vectensis Schistosoma mansoni Echinococous multilocularis Lingula enatina Exalpasia pallida Crassostrea gigas Lottia gigantea Ramazzottus varienmatus Hypsibius dujardiri Centruroides sculpiruatus Limulus polyphemus Tribolium castaneum Drosophila puelanogaster Acanthaster planci Strongyloceantous purpuratus Indolum castaneum Nosophila puela	Rucenia sieurity Rucenia sieurity Rucenia sieurity Aldienia dia gily Aldienia dia gi	Gefionella okel Malawimonas i Malawimonas i Malawimonas i Fabomonas to Fabomonas to Palonomoas i Palonomoas i Nuternonas j Nuternonas tr Nuternonas i Nuternonas	Cyaniqisoshyzon merolae Porphyridium purpureum Porphyridium purpureu	Plasmodiophor Bigliowilla is Bigliowilla is Bigliowilla is Bigliowilla is Reticulormyxa I a Reticulorm	SET.HG2.23:like:SETD3/SETD4:likeclu SET.HG6.19:like:KMT5A:likeclu:6

SWIRM OG presence
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SWIRM.HG1.2:SMARCC1/SMARCC2 SWIRM.HG2.1:TADA2A SWIRM.HG3.0:KDM1A SWIRM.HG1.0:MYSM1 SWIRM.HG2.0:like:TADA2A:likeclu:1

			SWIRM OG presence	
				1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Schistbsom a marisoni Echinococous multiocularis Lingula a natima Phoronis australis Phoronis australis Heiobbelia robusita Capitella leibelia Capitella leibelia Capitella leibelia Capitella leibelia Capitella pulex Limulus polyphemus Daphia pulex Limulus polyphemus Daphia pulex Limulus polyphemus Daphia pulex Strongylocentrous purpuratus Plychodera flava Strongylocentrous purpuratus Plychodera flava Strongylocentrous purpuratus Plychodera flava Ciona intestinalis Branchotsoma lanceolatum Ciona intestinalis Branchotsoma lanceolatum Ciona intestinalis Danio refio	Leucosoueria compicata Syono cilatum Syono cilatum Syono cilatum Gosarella carmele Ebhyadata muelleria Teithya wilhelma Irethya wilhelma Mnemiopsis leidyi Trichoplax adhaerens Monbakka virulenta Aurelia aurila Aurelia aurila Cilyia hemisphaerica Hydra vulgaris Sylophora pisililata Carchorad adgiffeta Exaiprasa palifica Exaiprasa palifica Exaiprasa palifica	Ciadenaria anguilullae Aliomyces macrogyus Süzellomyces punctatus Barrachochyrtium dendrobaridis Barrachochyrtium dendrobaridis Barrachochyrtium dendrobaridis Coemansia reversa Mucro cricinelioides Mucro cricinelioides Phycomyces blekesteeanus Phycomyces blekesteeanus Phycomyces blekesteeanus Phycomyces blekesteeanus Phycomyces blekesteeanus Phycomyces belevia Usitago maydis Copinoposis cinetera Usitago maydis Copinoposis cinetera Cypptococcus neoformans Saccharomyces berevisiae Tuber melanosporum Neurospora crassas Saccharomyces pombe Corrallochyrtium limacisporum Chomospheara perkinsii Chellmyophorus holferi Creelimax (Taygatissisma Sphaeroforma arctica Ministeria vibrans Saphaeroforma arctica Saphaeroforma arctica Saphaeroforma crasetta Saphaeroforma arctica Saphaeroforma arctica Saphaeroforma arctica	Kiebsormidium nitiens Cihara brauni del yang del	Choladis cispus Gradiariopsis chorda Micromonas pusilia Ostreococus tauri Chlorela variabilis Coccomyxa subellipsoidea Caudrpa lentilitiera Ulva mutabilis Volvox earteri Chlamydomonas reinhardtii

## CupinJmjC OG presence



## ADD\_ATRIX. Horizona de la cambia dela cambia de la cambi

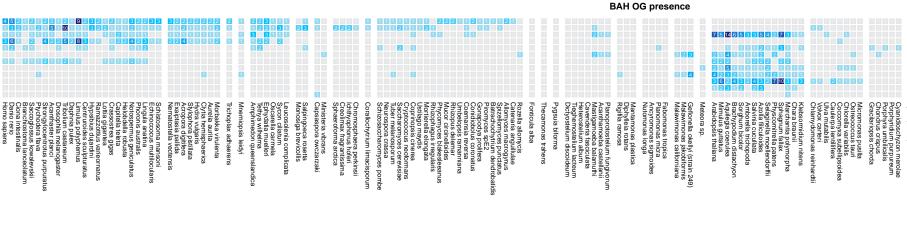
ADD\_ATRX OG presence

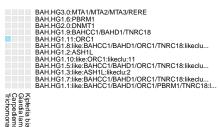
## ADD\_DNMT3 OG presence

a grubeni
a grubeni
a grubeni
ma multiciliatum
setik kukwesijik

iles sp. CCMP2436
chromulina tobin
ila hukleyi

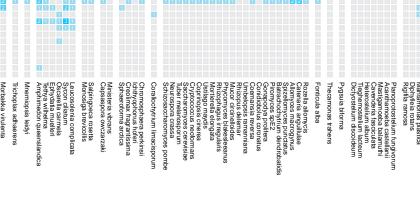
odiophora brassicae
wiella natians
lomyva fliosa
cha trifallax
yimeria thermophila
vimeria vielia
plasma gondii
modium teriaurelia
plasma gondii
modium teriaurelia
plasma gondii
modium falciparum
unochyritum kerguelense
antoctyritum lagge-gatum
yila theresiscaliorini
modium falciparum
unochyritum kerguelense
antoctyritum lagge-gatum
yila plasma gondii
plasma gondii
plasma gondii
modium falciparum
unochyritum kerguelense
antoctyritum lagge-gatum
yologinia parasitica
yologinia parasitica
yologinia parasitica
upo labachii
viophitroria iriestans
anocelorpopsis gaditeria
viophitroria iriestans
anocelorpopsis chorica
viophyra umbilicalis
viophyra umbil





## BIR OG presence

6 3

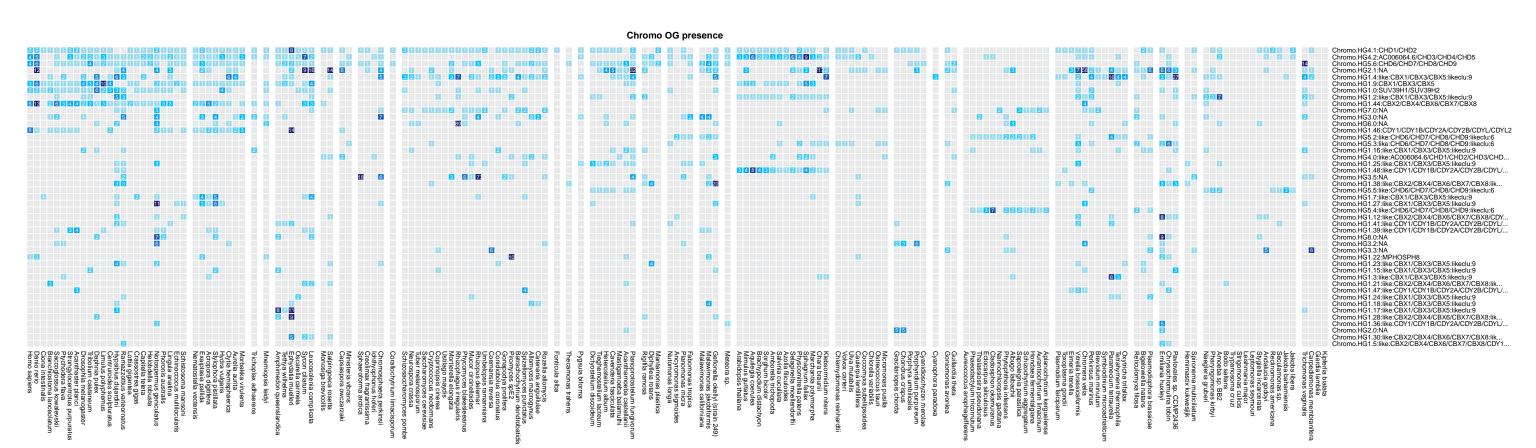


1 3 1 3 1 1 1 1 1 1 1 1 1 0 1 1 0 2 1 1 5 1

BIR.HG1.0:BIRC5
BIR.HG1.10:BIRC5
BIR.HG1.10:BIRC6
BIR.HG1.11:like:BIRC2/BIRC3/BIRC6/BIRC7/NAIP/XIA...
BIR.HG1.3:like:BIRC2/BIRC3/BIRC6/BIRC7/NAIP/XIA...
BIR.HG1.3:like:BIRC2/BIRC3/XIAP-likeclu-16
BIR.HG1.12:like:BIRC2/BIRC3/XIAP-likeclu-16
BIR.HG1.13:like:BIRC2/BIRC3/XIAP-likeclu-16
BIR.HG1.13:like:BIRC2/BIRC3/XIAP-likeclu-16
BIR.HG1.15:like:BIRC2/BIRC3/XIAP-likeclu-16
BIR.HG1.15:like:BIRC2/BIRC3/XIAP-likeclu-16
BIR.HG1.15:like:BIRC2/BIRC3/XIAP-likeclu-16
BIR.HG1.15:like:BIRC2/BIRC3/XIAP-likeclu-16
BIR.HG1.15:like:BIRC2/BIRC3/XIAP-likeclu-16

# Bromodomin OC presence The state of the sta

Bromodomain.HG3.10:KAT2A/KAT2B Bromodomain.HG2.3:BRD7/BRD9 Bromodomain.HG6.0:TAF1/TAF1L Bromodomain.HG7.1:BRWD1/BRWD3/PHIP Bromodomain.HG4.8:SMARCA2/SMARCA4 Bromodomain.HG8.0:ATAD2/ATAD2B Bromodomain.HG2.5:BRD1/BRPF1/BRPF3 Bromodomain.HG1.54:CREBBP/EP300 Bromodomain.HG5.2:BAZ1A/BAZ1B/BAZ2A/BAZ2B Bromodomain.HG4.5:ASH1L/PBRM1 Bromodomain.HG1.15:like:BRD2/BRD3/BRD4/BRD8/BRD. Bromodomain.HG5.0:ZMYND8/ZMYND11 Bromodomain.HG1.28:like:BRD8:likeclu:40 Bromodomain.HG3.7:CECR2 Bromodomain.HG1.40:BRD8 Bromodomain.HG1.49:BRD2/BRD3/BRD4/BRDT Bromodomain.HG1.30:like:CREBBP/EP300:likeclu:54 Bromodomain.HG2.0:like:BRD1/BRD7/BRD9/BRPF1/BRP. Bromodomain.HG5.1:SP100/SP140/SP140L/TRIM24/TRI... Bromodomain.HG1.11:like:BRD2/BRD3/BRD4/BRD8/BRD. Bromodomain.HG3.5:like:BPTF/CECR2/KAT2A/KAT2B:I... Bromodomain.HG3.6:BPTF Bromodomain.HG1.16:like:BRD2/BRD3/BRD4/BRD8/BRD... Bromodomain.HG1.26:like:BRD2/BRD3/BRD4/BRDT:lik... Bromodomain.HG1.37:like:BRD2/BRD3/BRD4/BRDT:lik... Bromodomain.HG4.0:like:ASH1L/PBRM1/SMARCA2/SMAR. Bromodomain.HG1.12:like:BRD2/BRD3/BRD4/BRD8/BRD... Bromodomain.HG4.2:like:BRD1/BRD1/BRD3/BRFF/BRF.. Bromodomain.HG4.3:like:BRD2/BRD3/BRD4/BRD8/BRD. Bromodomain.HG1.23:like:BRD2/BRD3/BRD4/BRD8/BRD. Bromodomain.HG1.22:like:BRD1/BRD7/BRD9/BRFF1/BRP.. Bromodomain.HG3.3:like:BPTF/CECR2/KAT2A/KAT2B:l Bromodomain.HG1.19:like:BRD2/BRD3/BRD4/BRD8/BRD. Bromodomain.HG1.21:like:BRD2/BRD3/BRD4/BRD8/BRD. Bromodomain.H31.21.links.BRD2/BRD3/BRD4/BRD7/BRD. Bromodomain.H31.25.links.BRD2/BRD3/BRD4/BRD7-link. Bromodomain.H31.53.links.CREBBP/EP300/linksQlu54 Bromodomain.H31.10.links.BRD2/BRD3/BRD4/BRD8/BRD. Bromodomain.H31.51.links.BRD2/BRD3/BRD4/BRD5/IMAR. Bromodomain.H31.51.links.BRD2/BRD3/BRD4/BRD7.IMAR. Bromodomain.HG3.4:like:BPTF/CECR2/KAT2A/KAT2B:... Bromodomain.HG1.32:like:BRD2/BRD3/BRD4/BRD8/BRD. Bromodomain.HG1.47:like:CREBBP/EP300:likeclu:54 Bromodomain.HG1.3ike:CREBbP/EP300:likedlu:54 Bromodomain.HG1.22ike:CREBbP/EP300:likedlu:54 Bromodomain.HG1.22ike:CREBbP/EP300:likedlu:54 Bromodomain.HG1.5ike:RD2/BRD3/BRD4/BRD4/BRD1. Bromodomain.HG1.42:like:CREBbP/EP300:likeclu:54 Bromodomain.HG1.32.iike:BRD2/BRD3/BRD4/BRDT:iik... Bromodomain.HG1.8:iike:BRD2/BRD3/BRD4/BRD7.iik... Bromodomain.HG1.8:iike:BRD2/BRD3/BRD4/BRD8/BRDT... Bromodomain.HG1.46:iike:BRD2/BRD3/BRD4/BRD8/BRD...



## ING OG presence

| ING.HG1.2:ING1/ING2/ING4/ING5 | ING.HG1.1:ING3 | ING.HG1.0:like:ING1/ING2/ING3/ING4/ING5:likeclu... | ING.HG1.4:like:ING1/ING2/ING3/ING4/ING5:likeclu...

0 0	0 0 0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0	0 0 0	0 0	0 0	0 0 0 0	0 1	0 0	0 0 0	0 0 0	0 0	0 0 0	2 1	0 0 0 0	0 0 0	0 0 0	0 0 0	0 0 0													0 0 1	0 0 0 1	1 0	
Tribolium castaneum	Hypsibius dujardini Centruroides sculpturatus Limulus polyphemus Daphnia pulex	Crassostrea gigas Lottia gigantea Ramazzottius varieornatus	Notospermus geniculatus Helobdella robusta Capitella teleta	ochisusonia mationii Echinococus multilocularis Lingula anatina Phoronis australis	ptasia pallic natostella ve	ra vulgaris ophora pistilla	Morbakka virulenta Aurelia aurita Civita hemisphaetica	Mnemiopsis leidyi Trichoplax adhaerens	=	Leucosolenia complicata Sycon ciliatum Oscarelia carmela Ephydatia muelleri	rosetta evicollis	ow	Creolimax fragrantissima Sphaeroforma arctica	alloct	spora cra osaccharo	Cryptococcus neotormans Saccharomyces cerevisiae Tuber melanosporum	stilago maydis oprinopsis cinerea	Muccomyces blakesleeanus Rhizophagus irregularis Mortieralla elopoata	Umbelopsis ramanniana Rhizopus delemar Musor ritrinalloides	Gonapodya prolifera Conidiobolus coronatus Coemansia reversa	Spizellomyces punctatus Batrachochytrium dendrobatidis Bironyces snE2	Rozella allomycis Catenaria anguillulae Allomyces macropyrus	Fonticula alba	Pygsuia biforma	Heterostelium album Tieghemostelium lacteum Dictyostelium discoideum	Acanthamoeba castellanii Mastigamoeba balamuthi Cavenderia fasciculata	Mantamonas plastica Diphylleia rotans Rigifila ramosa Planoprotostalium functionum	Planomonas micra Ancyromonas sigmoides Nutomonas longa	as californian tropica	Gefionella okellyi (strain 249) Malawimonas jakobiformis	dops	loides icullata trichopoo	nagnum falláx /scomitrella pate aginella moellen	Klebsormidium nitens Chara braunii Marchantia polymorpha	Ulva mutabilis Volvox carteri Chlamydomonas reinhardtii	Ustreococcus tauri Chorella variabilis Cocomyxa subellipsoidea Caulerpa lentilifera	Gracilariopsis chorda Micromonas pusilla	Pórphyridium purpureum Porphyra umbilicalis Chondrus crispus

MBT OG presence

Acanifamoda castellari Mastigamoda balamuthi Cavenderia fasciculata Heterostellum abum Tieghemostellum abum Dictyostellum discordeum Pygsula biforma Thecamonas trahens Fonticula alba Rozella allomyots Gatenaria angullules Allomyots marcogynus Spizellomyose punctatus Spizellomyots Deriz

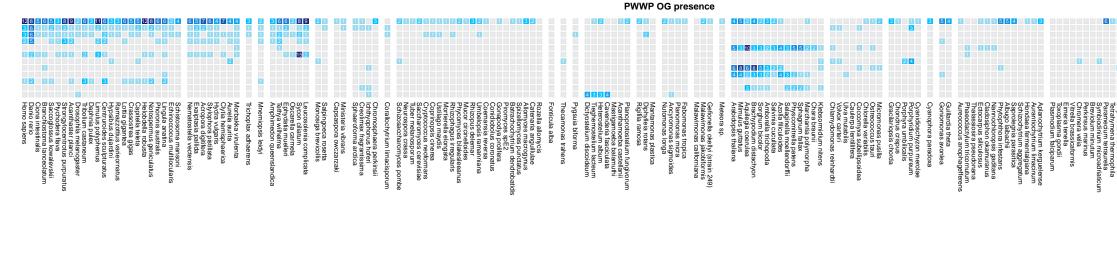
remnyphonus hotering coolinax fragantissima sphaerioforma arctica sphaerioforma arctica Ministeria vibrans Capsaspora owczarzaki Salpingoeca rosetta Monosiga brevicollis Leucosolienia complicata Sycon ciliatum Oscarelia carmela Ephydatia muelleri Tethiya wilhelma Amphimedon queenslandica Mnemiopsis leidyl Trichoplax adhaerens Morbakka virulenta Aurelia aurita Ciyla hemisphaerica

Notosperinus geniculatus
Heloodella robusta
Capitella teleta
Capitella pigaritea
Capite

## 

MRG OG presence

PHD OG presence													
	PHD.HG1.1:CXXC1/DIDO1/PHF3 PHD.HG4.5:BAZ1A/BAZ18/BAZ2A/BAZ2B PHD.HG4.5:BAZ1A/BAZ18/BAZ2A/BAZ2B PHD.HG8.2:KDM4A/KDM4B/KDM4C/KDM5A/KDM5B/KDM5C/K PHD.HG7.0:PHF13/PHF23 PHD.HG5.4:KMT2A/KMT2B/KMT2C/KMT2D PHD.HG5.4:KMT2A/KMT2B/KMT2C/KMT2D PHD.HG8.1:like:KDM4A/KDM4B/KDM4C/KDM5A/KDM5B/KD PHD.HG3.1:ZPHF12 PHD.HG3.1:ZPHF12 PHD.HG3.1:ZPHF19 PHD.HG1.1:MT2/PHF1/PHF19 PHD.HG2.1:MT2/PHF1/PHF19 PHD.HG2.1:SJADE1/JADE2/JADE3 PHD.HG1.1:JHRF2/PHF1/PHF19 PHD.HG1.1:JHRF2/PHF1/PHF19 PHD.HG1.1:JHRF1/PHF19												
	PHD.HG2.5:PHF14 PHD.HG2.2:like:BAZ1A/BAZ1B/BAZ2A/BAZ2B/SP140L/T PHD.HG10.3:like:TAF3:likeclu:2 PHD.HG6.6:DPF1/DPF2 PHD.HG6.6:DPF1/DPF2 PHD.HG17.0:NA PHD.HG16.1:NA PHD.HG16.1:NA PHD.HG5.6:like:KMT2A/KMT2B/KMT2C/KMT2D:likeclu:4 PHD.HG3.1:SPHF214/PHF21B PHD.HG10.2:TAF3 PHD.HG10.2:TAF3 PHD.HG1.5:like:FBXL19/KDM2A/KDM2B/KDM7A/PHF2/PH PHD.HG1.5:like:FBXL19/KDM2A/KDM2B/KDM7A/PHF2/PH PHD.HG4.8:SP140LTRIM24/TRIM28/TRIM33/TRIM66												
	PHD.HG13.0:NA PhD.HG6.4:PHF10 PHD.HG6.8:KAT6A/KAT6B PHD.HG1.2:PYGO1/PYGO2 PHD.HG1.3:BPTF PHD.HG6.3iike:DPF1/DPF2/KAT6A/KAT6B/PHF10:like PHD.HG18.0:NA PHD.HG6.7:like:KMT2A/KAT6B.likeclu:8 PHD.HG5.1:like:KMT2A/KMT2B/KMT2C/KMT2D.likeclu:4 PHD.HG5.0:PHF1 PHD.HG3.9:like:MT2A/KMT2B/KMT2C/KMT2D.likeclu:4 PHD.HG4.0:PHF1 PHD.HG3.9:like:KMT2A/KMT2B/KMT2C/KMT2D.likeclu:4 PHD.HG4.0:like:BRT0/KMT2B/KMT2C/KMT2D.likeclu:4 PHD.HG2.0:like:BRT0/KRTP5/HF12/PHF21A/PHF21B-likeclu:4 PHD.HG2.0:like:BRT0/KRTP5/KMT2B/KMT2C/KMT2D.likeclu:4 PHD.HG2.0:like:BRT0/KRTP5/JADE1/JADE2/JAD PHD.HG1.0:RSF1												
	PHD.HG2.15.ilke:BRD1/BRPF1/BRPF3/JADE1/JADE2/JA PHD.HG4.4like:BA21/BAB21/BBA22/ABA22B/SP140L/T PHD.HG2.17.ilke:BRD1/BRPF1/BRPF3/JADE1/JADE2/JA PHD.HG51.1ilke:RSF1:likeclu:0 PHD.HG21.0:NA PHD.HG50.0ilke:DPF1/DPF2/KAT6A/KAT6B/PHF10:like PHD.HG3.1:NA PHD.HG20.0:ASXL1/ASXL2/ASXL3 PHD.HG2.0:ASXL1/ASXL2/ASXL3 PHD.HG1.2:like:AUT62-likeclu:3 PHD.HG1.2:like:AUT6666.6/CHD3/CHD4/CHD5:likeclu:4 PHD.HG4.7:like:BA21A/BA21B/BA22/ABA22B/SP140L/T PHD.HG3.1ilke:AUT6666.6/CHD3/CHD4/CHD5!likeclu:4 PHD.HG3.1ilke:AUT6666.6/CHD3/CHD4/CHD5!likeclu:4 PHD.HG3.1ilke:AUT6666.6/CHD3/CHD4/CHD5!likeclu:4												
	PHD.HG1.03like.BP1F:likeclus3 PhD.HG3.13like.2HG06664.6/CHD3/CHD4/CHD5:likec PHD.HG19.0:NA PhD.HG11.03like.PYGO1/PYGO2:likeclu:2 PHD.HG2.21.like.BBD1/BRPF1/BRPF3/JADE1/JADE2/JAD PHD.HG2.21.like.BBD1/BRPF1/BRPF3/JADE1/JADE2/JAD PHD.HG2.27.like.BBD1/BRPF1/BRPP3/JADE1/JADE2/JAD PHD.HG2.27.like.BBD1/BRPF1/BRPP3/JADE1/JADE2/JAD PHD.HG2.31.like.BP1/SP1/PHF2/IAPHF2/IB-likeclus1/JADE2/JAD PHD.HG2.31.like.PYGO1/PYF2/IAPHF2/IAPHF2/IB-likeclus1/JADE2/JAD PHD.HG2.31.like.PYGO1/PYGO2:likeclus2 PHD.HG13.31.like.AC006664.6/CHD3/CHD4/CHD5:likeclus4 PHD.HG3.31.like.AC006664.6/CHD3/CHD4/CHD5:likeclus4 PHD.HG3.01.NA												
Giardidia ciaminia di Giardidia ciaminia di Giardidia ciaminia di Capridio di monta di Capridio di Cap	PHD.HG26.0:NA PHD.HG27.1:like:BRD1/BRPF1/BRPF3/JADE1/JADE2/JA PHD.HG24.0:NA PHD.HG24.0:NA PHD.HG29:like:BRD1/BRPF1/BRPF3/JADE1/JADE2/JAD PHD.HG10.7:like:TAF3:likeclu:2 PHD.HG10.1:like:TAF3:likeclu:2												
alis si s													



PWWP.HG1.8:AC098650.1/GLYR1/HDGFL1/HDGFL2/HDGFL...
PWWP.HG1.2:NSD1/NSD2/NSD3
PWWP.HG1.14:BRD1/BRPF1/BRPF3

PWWP.HG1.3:DNMT3A/DNMT3B PWWP.HG1.0:like:AC098650.1/BRD1/BRPF1/BRPF3/DNM... PWWP.HG1.18:ZMYND11

PWWP.HG1.18:ZMVND11
PWWP.HG1.10:like:Ac098650.1/BRD1/BRPF1/BRPF3/GL...
PWWP.HG1.20:like:BRD1/BRPF1/BRPF3/likeclu:14
PWWP.HG1.20:like:Ac098650.1/BRD1/BRPF1/BRPF3/GLY...
PWWP.HG1.17:ZWNND8
PWWP.HG1.17:Zlike:BRD1/BRPF1/BRPF3/likeclu:14
PWWP.HG1.16:like:MBD5:likeclu:22

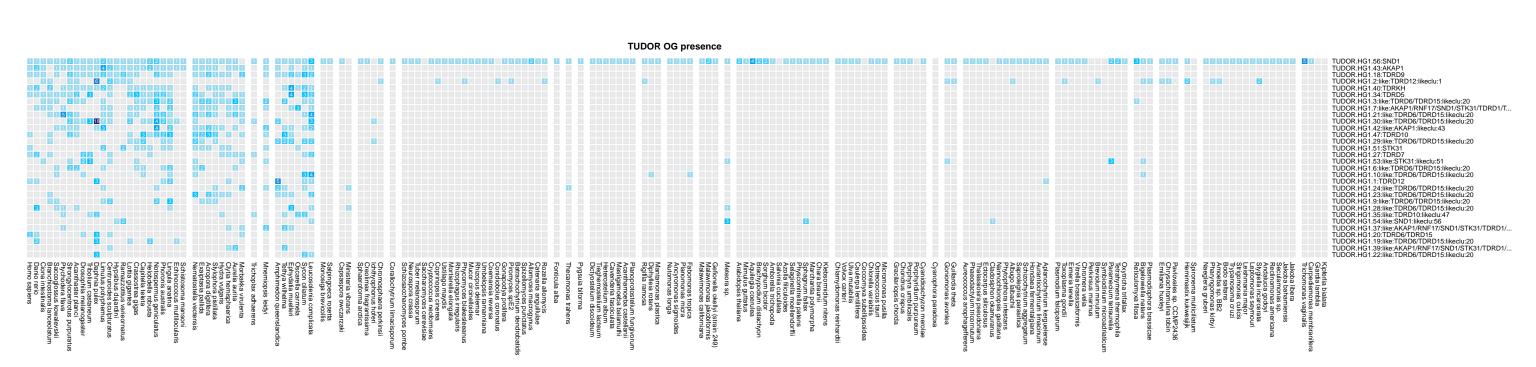
0 1 0 1 1 0

# ANAMA ELECTRICA STATE OF THE CONTROLLAR SANCHARDER STATEMENT OF THE CONTROLLAR STATEME

SAWADEE OG presence

## TTD OG presence

Geficoella okeliyi (strain 24)
Geficoella okeliyi (strain 24)
Malawirnonas cialdorilarian
Fabornonas riopica
Planomonas iropica
Planomonas iropica
Planomonas iropica
Planomonas iropica
Anogromonas sigmides
Nutmonas longa
Martamonas plastica
Diphylleia rotans
Cavendria fascicularia
Cavendria fascicularia
Cavendria fascicularia
Cavendria fascicularia
Cavendria tascicularia
Mastigamodela balamuthi
Mastigamodela balamuthi
Mastigamodela prorutarus
Spicolemores prorutarus
Spicolemores prorutarus
Spicolemores prorutarus
Spicolemores provincia
Spicolemores provincia
Spicolemores provincia
Spicolemores provincia
Spicolemores provincia
Carelina tascicularia
Sycon ciliatum
Sycon cili



zf-CW OG presence

0 0 1 1 0 2 1 2 0 1 1 1 1 1 0 1 1 1

0 1 1 0 1 1 1

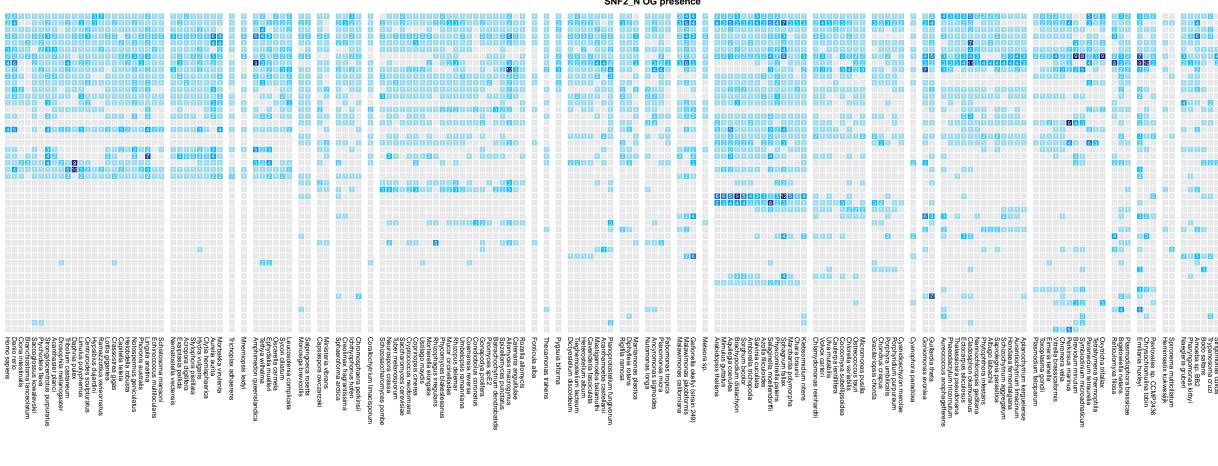
zI-CW.HG1.16:MORC1/MORC2/MORC3/MORC4 zI-CW.HG1.15:like:AC098650.1/kDM1B/MORC1/MORC2/M... zI-CW.HG1.18:zCVPW/ zI-CW.HG1.8:like:AC098650.1/kDM1B/MORC1/MORC2/M... zI-CW.HG1.8:like:AC098650.1/kDM1B/MORC1/MORC2/M... zI-CW.HG1.19:like:AC098650.1/kDM1B/MORC1/MORC2/M... zI-CW.HG1.14:AC098650.1/kDM1B/ZCVPW1/ZCWPW2... zI-CW.HG1.15:like:AC098650.1/kDM1B/ZCVPW1/ZCWPW2... zI-CW.HG1.15:like:MORC1/MORC2/MORC3/MORC4:likec... zI-CW.HG1.13:like:AC098650.1/kDM1B/MORC1/MORC2/...

1 1 0 0 0 0 0 0 0 0 2	2 0 1 1 0 0 0 0	1 1 1 1 0 0 0 0 0 0 0 0 1 0 0 0 0 2 0	1 2 1 1 1 2 2 0 0 0 0 0 0 2 2 0		1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0				0 0 0 1 0 0		0 2 0 0 0 0 0 0 2 0 1 0 0 0 0 0	YEATS.HG1.9:YEATS4 YEATS.HG1.6:YEATS2 YEATS.HG1.8:MLLT1/MLLT3 YEATS.HG1.1:like:MLLT1/MLLT3/YEATS2/YEATS4:like YEATS.HG1.3:like:MLLT1/MLT3/YEATS2/YEATS4:like
Rigifila ramosa	Mantamonas plastica Diphylleia rotans	Fabomonas tropica Planomonas micra Ancyromonas sigmoides Nutomonas longa	Meteora sp. Gefionella okellyi (strain 249) Malawimonas jakobiformis Malawimonas californiana	Kkebsornidum nitens Chara brauni Marchamia polymorpha Sphagnum fallax Physonim fallax Physonim fallax Physonim fallax Sadginella modlerdorffii Azola ifuculdisa Salvinia zuculdisa Azola ifuculdisa Azola ifuculdisa Azola ifuculdisa Azola fuculdisa Azola fu	Micromonas pusilia Ostreococcus tario Ostreococcus tario Chlorella variabilis Coccomyxa subelipsoidea Caulerpa lentilifera Ulva mutabilis Volvox carteri Chlamydomonas reinhardiii	Goriomonas avonlea Cyanophora paradoxa Cyandioschyzon merolae Porphyridium purpureum Porphyra umblicalis Chondrus crispus Gracilariopsis chorda	Aplancityrium lerguelense Aplancicyrium inacinum Hondaei a fementalgiana Schzichyrium aggregatum Saprolegina parastica Phytophrinora infestans Namocribropissi gadifaria Caladisphon delamuranus Ecicasipus siliculosus Ecicasipus siliculosus Ecicasipus siliculosus Ecicasipus siliculosus Ecicasipus siliculosus Ecicasipus siliculosus Aureococcus anophagelferens	nophila relia oadria mis	Spironema multiciliatum Hemimastik kukwesijik Peavlovales sp. CCMP2436 Chrysochomulina tobin Emiliania huxleyi	Jakoba libera Jakoba libera Jakoba libera Sebaba harainensis Secularionas sp. Reclinomas sp. Andalucia godoyi Sygielia incarcerata Lephomonas sepinouri Leshomala major Sirigomonas culicis Trupanosoma cruzi Sirigomonas culisis Trupanosoma sp. BB2 Pharyngomonas j. BB2	Kipferlia bialata Giardia lamblia Carpediemonas membranifera Trichomonas vaginalis	

YEATS OG presence

## Schistosoma marsoni Echinococcus multiocularis Lingula analias Lingula analias Photonis australis Notospermus geniculatus Helobdella obusta Capitella telera Capitella telera Capitella telera Lottia gigante Lottia gig

## SNF2\_N OG presence



SNF2\_N.HG2.12:like:SMARCA15MARCA5:likeciu:10 SNF2\_N.HG1.23like:HLTF:likeciu:25 SNF2\_N.HG3.4:like:ERCC6L:likeciu:5 SNF2\_N.HG5.5:like:ARXFilkeciu:7 SNF2\_N.HG7.0:like:RAD54B/RAD54L:likeciu:8 SNF2\_N.HG2.11:like:SMARCAD1:likeciu:7 SNF2\_N.HG8.0:like:CHD6/CHD7/CHD8/CHD9:likeciu:1

SNF2\_N.HG6.0:SMARCA2/SMARCA4 SNF2\_N.HG3.3:ERCC6 SNF2\_N.HG7.8:RAD54B/RAD54L SNF2 N.HG11.1:BTAF1 SNF2 N.HG11.1:BTAF1 SNF2 N.HG12.0:AC106886.6/EP400/SRCAP SNF2 N.HG9.2:SMARCAL1/ZRANB3 SNF2 N.HG8.1:CHD6/CHD7/CHD8/CHD9 SNF2 N.HG10.1:SHPRH

SNF2\_N.HG1.17:like:HLTF/TTF2:likeclu:18/26 SNF2\_N.HG4.0:AC006064.6/CHD3/CHD4/CHD5 SNF2\_N.HG1.4:like:HLTF/TTF2:likeclu:18/26 SNF2\_N.HG1.16:like:HLTF/TTF2:likeclu:18/26 SNF2\_N.HG2.0:CHD1L

SNF2 N.H65.:/AIRX SNF2 N.H65.:?AID54L2 SNF2 N.H64.4:like:CHD1/CHD2-likeclu:6 SNF2 N.H61.27:like:TTF2:likeclu:18 SNF2 N.H65.0:like:ATRX/RAD54L2:likeclu:277 SNF2 N.H61.29:like:TTP2:likeclu:18 SNF2 N.H67.10:like:RAD54B/RAD54L:likeclu:8 SNF2 N.H67.1:like:RAD54B/RAD54L:likeclu:8 SNF2 N.H67.1:like:RAD54B/RAD54L:likeclu:10

SNF2 N.HG5.3:like:ATRX/RAD54L2:likeclu:2/7 SNF2\_N.HG5.4:like:ATRX/RAD54L2:likeclu:2/7 SNF2\_N.HG1.7:like:HLTF/TTF2:likeclu:18/26 SNF2\_N.HG1.25:like:HLTF:likeclu:26 SNF2\_N.HG1.12:like:HLTF/TTF2:likeclu:18/26 SNF2\_N.HG5.1:like:ATRX/RAD54L2:likeclu:2/7 SNF2\_N.HG15.0:NA SNF2\_N.HG6.1:like:SMARCA2/SMARCA4:likeclu:0 SNF2\_N.HG4.2:like:CHD1/CHD2:likeclu:6 SNF2\_N.HG4.1:like:CHD1/CHD2:likeclu:6 SNF2\_N.HG2.12:like:SMARCA1/SMARCA5:likeclu:10

SNF2\_N.HG10.11:SHPRH SNF2\_N.HG4.6:CHD1/CHD2 SNF2\_N.HG13.0:INO80 SNF2\_N.HG2.3:HELLS SNF2\_N.HG2.7:SMARCAD1 SNF2\_N.HG3.5:ERCC6L SNF2\_N.HG14.0:NA SNF2\_N.HG3.1:ERCC6L2

SNF2\_N.HG1.26:HLTF SNF2\_N.HG1.18:TTF2 SNF2\_N.HG5.7:ATRX

## ASF1\_hist\_chap OG presence

## CAF1A OG presence THE STATE OF THE S

## CHZ OG presence

## Daxx OG presence

## Hira.HG1.0:HIRA Hira.HG1.0:HIRA Glarda lambila Cappediemonas Cappediemonas Cappediemonas Cappediemonas

1010111111111111012211 1 11111023	0 0 222121 01 11 1111 1 211211111111110011			11 0111101120111 0000000211 111 010 0	
Morbakka virulenta  Aurelia aturita  Ciyla hemisphaerica  Ciyla hemispha	priconcus e special considerations of the consideration of the considera	Malawimonas jakoblomis Malawimonas jakoblomis Malawimonas cidiorilana Fabomonas tropica Planomonas tropica Planomonas micra Ancyromonas sigmoides Nutromonas jonga Martamonas plastica Diplyilleia rotans Diplyilleia rotans Regilia ramosa Planopotoselium fungivorum Acanthamoeba castellanii Mastigamoeba balamuthi Cavenderia Rasciculata Heterostelium album Dictyostelium discoideum Pygsula biforma Thecamoras trahens Fonticula alba Rozella allomydis Calernatia anguillulae Allomyces macrogynus Spizalionyosa punciatus	Cyandphora paradoxa Cyandicsetyzon merolae Porphyridium purpueum Porphyridium purpueum Porphyridium purpueum Ricomonase pusilia Ostracoccus tarilia Ostracoccus tarilia Ostracoccus tarilia Ostracoccus tarilia Coccomyxa subellipsoidea Caulerpa lentiilifera Ulva mutabilis Coccomyxa subellipsoidea Cullerpa lentiilifera Ulva mutabilis Coccomyxa subellipsoidea Collegia comiteria Appropriati propieration Saphagnum fallax Physocomiteria pateria Selaginella mobilendorffii Azoila iliculoidea Salvinia tuculoita Amborella trichopoda Sorghum bicolo Gradypodium disachyon Mariengus subelliae Minutus gutattus Meleoras sin	Hernimastix kukwesijik Paviovales sp. Cokya36 Chrysochromulina tobin Emiliania huxleyi Plasmodiophora bnasicae Bigalowielia natans Reticulomyxa filosa Oxyrticha tritaliax Tetrahymena thermophila Paramecium tetraurelia Symbiodinium microadriaticum Breviolum minutum Breviolum minutum Ghromera veila Breviolum minutum Virteila brassicatormis Eimeria tanella Findopharma Aplanochyritum gagregatum Aplanochyritum aggregatum Saprolegnia parasifica Phytophthora infestans Saprolegnia parasifica Sapr	Trichomonas vaginalis Jakoba liberia Jakoba liberia Jakoba bahamiensis Seculamonas sp. Redinomonas americana Andalucia godoyi Styglela incarcerata Leplomonas seymouri Leishmania major Sritgomonas culicis Trypanosoma rutizi Trypanosoma rutizi Amoda sp. BB2 Pharyngormonas kirbyi Naegieria gruberi Naegieria gruberi

Hira OG presence

Sivygelia in inceroriana
Laparomoras seymouria
Laparomoras control
Lap

NAP OG presence

NAP.HG2.1:SET/SETSIP/TSPY1/TSPY2/TSPY3/TSPY4/TS...
NAP.HG1.0:NAP1L1/NAP1L2/NAP1L3/NAP1L4/NAP1L5
NAP.HG1.1:like:NAP1L1/NAP1L2/NAP1L3/NAP1L4/NAP1...
NAP.HG1.5:like:NAP1L1/NAP1L2/NAP1L3/NAP1L4/NAP1...
NAP.HG1.3:like:NAP1L1/NAP1L2/NAP1L3/NAP1L4/NAP1...
NAP.HG2.0:like:SET/SETSIP/TSPY1/TSPY2/TSPY3/TSP...

Jakoba ilbera

Jakoba ilbera

Jakoba barhamiensis

Seculamonas sp.

Seculamonas sp.

Seculamonas sp.

Andalucia goodoy

Andalucia goodoy

Septembra sa mericana

Andalucia goodoy

Septembra sa podoy

Septembra sa podoy

Septembra sa podoy

Naegleria gruberi

Spiropena multicillatum

Hemimastik kukwesijik

Pavlovales sp. CCMP2436
Chnysochnomulna tobin
Emiliania huxley

Plas modiophora brassicae

Bigelowiella na tara

Spiropena multicillatum

Hemimastik kukwesijik

Pavlovales sp. CCMP2436
Chnysochromulna tobin
Emiliania huxley

Plas modiophora brassicae

Bigelowiella na tara

Spiropena multicillatum

Hemimastik kukwesijik

Pavlovales sp. CCMP2436
Chnysochromulna tobin
Emiliania huxley

Spiropena ruticillatum

Hemimastik kukwesijik

Pavlovales sp. CCMP2436
Chnysochroma increadriateum

Bigelowiella na tara

Spiropena multicillatum

Hemimastik kukwesijik

Pavlovaliania siricilatum

Paramecum terraurelia

Sprivodium mincum

Aplanochyrium keryuelense

Chorita tretal

Symbodinium spirogatum

Aplanochyrium keryuelense

Virelia brassicatormis

Emerica terelia

Toxoplasma gondii

Plas modiophora brassicatormis

Emerica terelia

Toxoplasma gondii

Pasmodium nagiregatum

Aplanochyrium spirogatum

Aplanochyrium spirogatum

Aplanochyrium spirogatum

Aplanochyrium spirogatum

Aplanochyrium purpureum

Aplanochyrium purpureum

Aplanochyrium purpureum

Aplanochyridum purpureum

Aplanochyridum purpureum

Aplanochyridum purpureum

Aplanochyridum purpureum

Aplanochyrium spirogatum

Alkuo jalbachii

Sakola theta

Saynida cuculiata

Amborella traibilis

Volvox carteri

Choridus cursus

Andalus guttus

Andalus guttus leteora sp.
ietionale a delivi (istrain 249)
slaawimonas riakobiformis
abomonas tropica
abomonas tropica
anomonas midra
anomonas midra
anomonas morja
sigmoides
lutiomonas longa
fantamonas plastica
phylietia rotaris
tigrilia ramosa
sigmoides
lutiomonas longa
fantamonas plastica
phylietia rotaris
tigrilia ramosa
sigmoides
sutromonas plastica
phylietia rotaris
tigrilia ramosa
sigmilia ramosa
sigmilia
sigmilia ramosa
sigmilia

Rtt106 OG presence

Rozella allomycis
Rozella allo

SPT16 OG presence

# SSrecog OG presence

sa libera

sa babamiensis

a babamiensis

a babamiensis

a babamiensis

lamonas sp.

nomonas publici

panana multiciliatum

imaati kukwesijik

valas sp. CRMP248

sochromulina tobin

noduphora brassicae

lowiella natans

ulonya filosa

richa trifalax

filosa marinum

maria veila

richa trifalax

filosa marinum

maria veila

ja lenasiscalorimis

ria lenella

richa trifalax

filosa paradiorimi

modum faccionimi microadriaticum

inolum microadriaticum

modum faccionimi microadriaticum

inolum nationadriaticum

inolum nationadriaticum

modum faccionimi silosa

filosa filosa paradiori

modum faccionimi

modum faccionimi

richa trifalax

filosa paradiori

filosa paradiori

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richa trifalax

filosa paradiori

modum faccionimi

richa trifalax

filosa paradiori

modum faccionimi

modum faccionimi

richa variabilis

rocurus siliculosus

assicisia pseudorona

asadoryium ticornutum

nococcus anophagefierens

asalaris purpureum

pophora paradoxa

porilioria si identinimi

modum faccionimi

richa variabilis

va carte et es richardtii

richa breas

richardiya orichardiyorum

nomonas tropica

richardiya orichardiya

richardiya orichardiya

richardiya orichardiya

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richardiya orichardiya

richardiya orichardiya

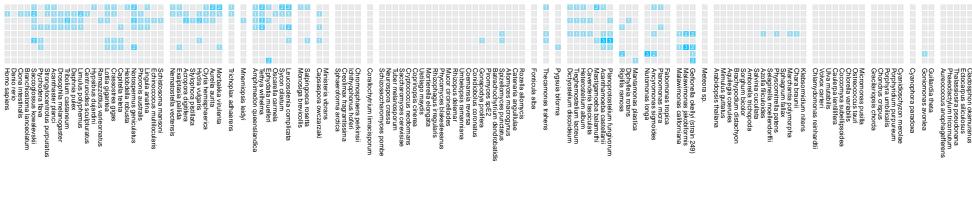
richardiy

SSecog.HG1.1:SSRP1

| Columbia |

## zf-CCHH OG presence

zf-CCHH.HG1.16:like:APLF:likeclu:6 zf-CCHH.HG1.5:Re.APLF: zf-CCHH.HG1.3:like:APLF:likeclu:6 zf-CCHH.HG1.9:like:APLF:likeclu:6 zf-CCHH.HG1.1:like:APLF:likeclu:6 zf-CCHH.HG1.1:like:APLF:likeclu:6 zf-CCHH.HG1.13:like:APLF:likeclu:6 zf-CCHH.HG1.13:like:APLF:likeclu:6 zf-CCHH.HG1.13:like:APLF:likeclu:6



# UBN\_AB OG presence

niomonas avontea
niomonas avontea
anophora paradoxa
anidioschyzon merolae
phyria umblicalis
yidrus erispus
yidrus

Nucleoplasmin OG presence

a libera
a bahamiensis
a bahamiensis
a bahamiensis
a bahamiensis
anonas sp.
omonas americana
ucia godoyi
ila incarce irata
nana major
manas seymouri
manta major
manas seymouri
manta major
monas culicis
oosoma cruzi
saltans sulicis
oosoma cruzi
saltans kukwesijiik
rema mutticiliatum
mastik kukwesijiik
vales sp. CCMP2436
.cochromulina tobin
niah buxleyi
lodophora brassicae
wella natans
icha trifalax
vyrena thernophila
nectum teraurelia
icha trifalax
vyrena thernophila
nectum teraurelia
icha trifalax
vyrena thernophila
nectum teraurelia
icha trifalax
vyrena teranophila
nectum teraurelia
icha teranophila
nectum teraurelia
icha teranophila
nectum teraurelia
icha trifalax
vyrena paradoxa
odacytrium tirornutum
succhyrium teraurelia
icha teranophila
icha teranophila
para speatum
podium purpureum
vyra umbilicalis
isalosira pseudoronana
odacytum tirornutum
sistem odacytum tirornutum
indianosa californiana
monas pusilia
sornotas tropica
idischyzon merolae
yyridium purpureum
yera umbilicalis
idischyzon merolae
yridium purpureum
yera umbilicalis
idischyzon merolae
yridium purpureum
yera umbilicalis
idischyzon merolae
yridium purpureum
idia theta
idischyzon merolae
yridium purpureum
idianopas silculosus
issoisia pseudoronana
issipono okamurati
ingum belara
idischyzon
idia trichopoda
hum bicolor
hypodium discabyon
legia coenulea
idischyzon
idia trichopoda
hum bicolor
hypodium discabyon
legia coenulea
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idia trichopoda
hum bicolor
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hum bicolor
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idia trichopoda
hum bic

# PA1 OG presence

PA1.HG1.0:AC120114.4/PAGR1 Cミヌフミスこののフロのシラのス ア 寸 フ ローエのミシマ ヌロミ ヱシマファ ミミの ミ シミシロッシのクロのミのス のくこのののうち ののフラの のの シマー皿のヱマシののエシシ マゴボくのフロのマオの ヌロフ πのフ エの エマシロゴのディッション ライのス

# Porphyration of purpareum Porphyra unbicalis and Porphyra unbicalis and Chrondrus crispus Gracilarios so drouta surprise and property of the Condrus of the

Dpy-30 OG presence

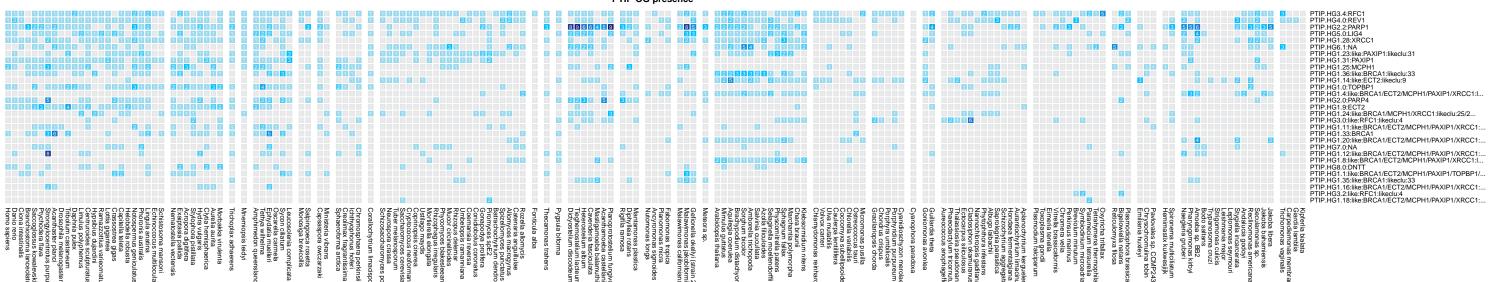
Dpy-30.HG1.19:AK7
Dpy-30.HG1.19:AK7
Dpy-30.HG1.7:NME5
Dpy-30.HG1.20:like:DPY30:likeclu:21
Dpy-30.HG1.20:like:DPY30:likeclu:21
Dpy-30.HG1.0:like:DVDC1/DVDC2:likeclu:1
Dpy-30.HG1.0:like:DVDC1/DVDC2:likeclu:1
Dpy-30.HG1.17:like:DPY30:likeclu:21
Dpy-30.HG1.18:like:DPY30:likeclu:21
Dpy-30.HG1.18:like:DPY30:likeclu:21
Dpy-30.HG1.18:like:DPY30:likeclu:21

# Menin OG presence

# Jakoba libera Jakoba libera Jakoba bahamiensis Sakoda bahamiensis Sakoda bahamiensis Sakoda bahamiensis Reditariona proteina Reditariona proteina Reditariona proteina Septian proteina Septian proteina Leishmania najo Syyale la incarecie iral Laptomonas culicis Trypanosoma ruzis Laptomonas seymouri Leishmania najo Phanyngomonas kerby Naegjeria gruberi Spirionema multiciliatum Herimastix kukwesijik Pavlovales sp. DC MP2436 Chysocothomulina tobin Spirionema multiciliatum Herimastix kukwesijik Pavlovales sp. DC MP2436 Chysocothomulina tobin Spirionema multiciliatum Herimastix kukwesijik Pavlovales sp. DC MP2436 Chysocothomulina tobin Spirionema multiciliatum Herimastix kukwesijik Pavlovales sp. DC MP2436 Chysocothomulina tobin Emiliania huxleyi Naegjeria gruberi Spirionema interance Rediculomyas inticas Rediculomyas reinhardtii Rebugo ilabadiii Rediculomyas inticas Rediculomyas reinhardtiii Rebugo ilabadiii Rediculomyas reinhardtiii Rebugo i ella alfornycis marcia angulilulae myces macrogynus ellornycis punctatus a chodyritum dendrobatidis myces sp.E2 apodya prolitera adolobus coronatus manista revensa aelopus irregularis manista revensa aelopus irregularis manista revensa copus deleman prococcus neoformans copus deleman prococcus neoformans copus deleman copu

NCOA6 OG presence 

## PTIP OG presence



# TRRAP OG presence

TRRAP.HG1.1:MTOR TRRAP.HG3.0:TRRAP TRRAP.HG2.1:ATR TRRAP.HG1.0:PRKDC TRRAP.HG2.0:ATM

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1 1		1 1 1 1	1 1 1 1	2 1 2 1	0 2 2	1 1 1	0 2 1	1	1 1	2 1 1	1 1	1 0	1 0		1	2 1 1	1 1 1		1 1 2	2 1 1	0 1 1	1 1 2	1 1	1 1	2	0 1 1 1 2 1	1 1 2	1 1 1 1	1 2	1 1	2 2 1 1			1 1	1 1 1 1 1 1	1 1 1 1	2 1 1	1 1
1 1 2		1 1 1 1	1 1 1 1		1 1 1	2 1 1	1 2 1	1	1 1	2 1 1	2 1	1 1	1 0		1		0 1 1	1 1 1	0 0 1	1 1 0	0 1 1	1 1 2	0.0	0 1	0	1 1 1 1 2 2	1 886	0 0 1 1	1 2	1 1	1 1 1 1			1 1	1 1 0 0 0 1	1 1 1 0	0 1 0	1 1
166	2 1 0 0 1	1 1 0 0	1 1 1 0	2 1 2 0	0 1 2	3 1 0	1 2 1		0 1	0 3 1	1 1	0 1	1 1	1 1 1 1	0		0 1 0	0 0 1	1 1 0	1 1 0	0 1 1	1 1 0				1 0 1 1 1 0	1 61616	0 0 1 0	0.2	0 1		0 0 1 1	0 1 2 1 0					1 0
1 0	2 1 0 2 1	1 0 0 0	0 1 0 0	1 1 1 0	0 1 1	8 8 8	0 2 1		0 1	1 1 0	1 1	0.1	1 0	1 1 1 0		8 8 8	0.1.0				0 1 0	0 1 1	0.0		- 61	0.000.011	0.00	0 4 4 4	1 2	2 1	1 1 0 0		0 0 2 1 1	1 0	0 0 0 1 0 0			
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AF9 OG presence

PCRing OG presence

nella okeliyi (strain 249)
wimonas jakobiformis
wimonas jakobiformis
wimonas californiana
monas tropica
nonoas signoides
monas longa
amonas plastica
nonas longa
monas longa
litalian
litalian
litalian
monas longa
litalian
moroselium abum
moroselium abum
moroselium abum
moroselium discoideum
uia biforma
uia biforma
uia biforma
uia biforma

# YAF2\_RYBP OG presence

## SAM OG presence

SAM OG presence												
					SAM.HG9.0:SAMD4A/SAMD4B SAM.HG2.11:BICC1 SAM.HG1.6:WDSUB1							
13 112 42 14 1 9 6 11 1 11 12 2 12 11 1 1 2 11 2 11					SAM.HG8.1:STIM2 SAM.HG2.15:DDHD2/SEC23IP							
					SAM.HG6.0:AP002336.5/KAZN/PPFIA1/PPFIA2/PPFIA3/ SAM.HG4.1:L3MBTL3/L3MBTL4/SAMD1/SAMD7/SAMD11/SA SAM.HG1.0:KIF24							
					SAM.HG3.8:CASKIN1/CASKIN2 SAM.HG5.8:EPHA1/EPHA2/EPHA3/EPHA4/EPHA5/EPHA6/E SAM.HG1.46:ARAP3/SAMD15							
f 8866666666666666666666666666666666666					SAM.HG2.10:ANKS4B/USH1G SAM.HG2.5:TNKS/TNKS2							
					SAM.HG1.38:DGKD/DGKH SAM.HG1.21:like:BFAR/SAMD8:likeclu:13/14 SAM.HG5.1:like:EPHA1/EPHA2/EPHA3/EPHA4/EPHA5/EP							
		2332252			SAM.HG2.18:ANKS3/ASZ1 SAM.HG2.4:like:DDHD2/SEC23IP:likeclu:15 SAM.HG3.10:ANKS1:A/ANKS1B							
					SAM.HG1.18:PPP1R9A/SAMD14 SAM.HG1.14:SAMD8							
					SAM.HG1.3:SAMHD1 SAM.HG4.0:PHC1/PHC2/PHC3 SAM.HG1.40:SHANK1/SHANK2/SHANK3							
					SAM.HG1.16:ilke:AL357075.4/CNKSR1/CNKSR2/CNKSR3 SAM.HG5.3:MAP3K20 SAM.HG1.44:SAMD10/SAMD12							
					SAM.HG2.13:like:DDHD2/SEC23IP:likeclu:15 SAM.HG3.12:like:INPPL1:likeclu:11							
					SAM. HG3.13:like:ANKS1A/ANKS1B/CASKIN1/CASKIN2/L SAM. HG1.12:kL357075.4/CNKSR1/CNKSR2/CNKSR3 SAM. HG3.14:like:ANKS1A/ANKS1B/CASKIN1/CASKIN2/L							
					SAM.HG2.17:ANKS6 SAM.HG1.2:SARM1 SAM.HG1.1:like:AL357075.4/ARAP1/ARAP2/ARAP3/BFA							
					SAM.HG12.0:NA SAM.HG11.1:1.RSAM1							
					SAM. HG1.23:like:AL357075.4/ARAP1/ARAP2/ARAP3/BF SAM. HG1.23:like:AL357075.4/ARAP1/ARAP2/ARAP3/BF SAM. HG1.27:like:ARAP2/ARAP3/SAMD10/SAMD12/SAMD1							
					SAM.HG1.11:like:AL357075.4/CNKSR1/CNKSR2/CNKSR3 SAM.HG2.8:like:DDHD2/SEC23IP:likeclu:15							
					SAM.HG2.0:like:ANKS3/ANKS4B/ANKS6/ASZ1/BICC1/DD SAM.HG3.3:like:ANKS1A/ANKS1B/CASKIN1/CASKIN2/IN SAM.HG3.0:like:ANKS1A/ANKS1B/CASKIN1/CASKIN2/IN							
					SAM.HG1.42:ARAP2 SAM.HG3.6:SAMD5/SAMSN1/SASH1/SASH3 SAM.HG3.11:INPPL1							
					SAM.HG1.25:like:AL357075.4/ARAP1/ARAP2/ARAP3/BF SAM.HG8.0:like:STIM2:likeclu:1							
					SAM.HG1.1:0:like:\WDSUB1:likeclu:6 SAM.HG1.26:like:AL357075.4/ARAP1/ARAP2/ARAP3/BF SAM.HG1.8:like:AL357075.4/CMKSR1/CNKSR2/CNKSR3							
					SAM.HG1.20:like:BFAR/SAMD8:likeclu:13/14 SAM.HG7.1:NA SAM.HG13.0:NA							
					SAM.HG3.17:like:INPPL1:likeclu:11 SAM.HG5.0:like:EPHA1/EPHA2/EPHA3/EPHA4/EPHA5/EP							
					SAM.HG1.13:BFAR SAM.HG1.2:like:AL357075.4/ARAP1/ARAP2/ARAP3/BF SAM.HG2.20:like:ANKS3/ANKS6/ASZ1:likedu:17/18							
					SAM HG2 20:like:ANKS3/ANKS6/ASZ1:likedu:17/18 SAM HG2 1:like:ANKS3/ANKS4B/ANKS6/ASZ1/BICC1/DD SAM HG1.39:ARAP! SAM HG7.0:NA							
					SAM.HG14.0:SAMD3 SAM.HG7.10:NA							
					SAM.HG1.30:like:AL357075.4/RRAP1/ARAP2/ARAP3/BF SAM.HG5.2:like:EPHA1/EPHA2/EPHA3/EPHA4/EPHA5/EP SAM.HG1.24:like:kL357075.4/ARAP1/ARAP2/ARAP3/BF							
					SAM.HG2.12:like:DDHD2/SEC23IP:likeclu:15 SAM.HG7.12:like:WDSUB1:likeclu:6 SAM.HG1.7:like:WDSUB1:likeclu:6							
					SAM.HG7.6:NA SAM.HG16.0:NA							
					SAM.HG3.9:like:ANKS1A/ANKS1B:likeclu:10 SAM.HG2.14:like:DDHD2/SEC23IP:likeclu:15 SAM.HG17.0:NA							
					SAM.HG7.7:NA SAM.HG5.5:like:EPHA1/EPHA2/EPHA3/EPHA4/EPHA5/EP							
					SAM.HG3.2:like:ANKS1A/ANKS1B/CASKIN1/CASKIN2/IN SAM.HG7.5:NA SAM.HG7.18:NA							
More Sylves Sylv	Coate Alizar Ali	Serias Serias Azolia Az	Albui, Al	Sirige Si	Kipfe Glard Capp Jakot Seau Seau Seau Lessin							
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# SLED OG presence

SLED.HG1.0:SCMH1/SCML2/SCML4/SFMBT1/SFMBT2

nodiophora brassicae juwielia rataras ulomyas iliosa wilanga high propieta propieta

# Helpfulla bislatia Gipfulla bis

Suz12 OG presence

	CAF1C OG presence		
	200000000	28 8 1 1 1 1 2 1 1 2 2 2 3 3 2 1 2 3 1 1 1 1	.HG1.1:RBBP4/RBBP7 .HG2.1:GRWD1 .HG1.0:like:RBBP4/RBBP7:likeclu:1
Riizopus delenar Riizopus delenar Mucor citrinelioides Phycomyces blakesleanus Phycomyces blakesleanus Phycomyces blakesleanus Riizophagus irregulairis Wortherelia elongata Schizosacchatormyces pombe Coralbotyrium limacisporum Neurospora crassas Sacharomyces perkinsii Chrityophonus hotleri Creolimax fraganisisma Sphaeroforma ardica Ministeria wharna Sapana perkinsii Creolimax fraganisisma Sphaeroforma ardica Ministeria wharna Sphaeroforma ardica Ministeria wharna Speca cliatum Capisaspora wccarraki Sphaeroforma ardica Amphimedon queenslandica Amphimedon queenslandica Amphimedon queenslandica Amphimedon queenslandica Amphimedon queenslandica Mortaka witulenta Scandila capita Scandila capita Scandila capita Schiococous multillocularis Cyria heriisphaerica Hydra wilgaris Sylophoria psililada Acropora digifileria Exalpusasia palida Mortaka wateeristis Sylophoria psililada Acropora digifileria Exalpusasia palida Crassostrea gigas Cotta gigantea Schiococous multilocularis Lingula anatina Capitala teleta Sylophoria psililada Capitala teleta Schiococous multilocularis Lingula anatina Capitala teleta Schiococous multilocularis Lingula anatina Capitala teleta Sylophoria psililada Capitala teleta Schiococous multilocularis Lingula anatina Capitala teleta Sylophoria psililada Capitala teleta Sylop	Cyanidoschyzon meciae Parphyra umblicale Parphyra umblicale Chordrus crispus Chordrus Costroposis chorda Micromoras pusilia Costroposis chorda Micromoras pusilia Costroposis Charabraunii Marchania polymorpha Physcomitrella patens Charabraunii Charabraunii Charabraunii Charabraunii Marchania polymorpha Sphagnum fallas Andiorilei a trichopoda Earchipodum distachyon Amtorelia firchopoda Serghum bicolo Earchipodum distachyon Mimulus guratus Caelinei a courulea Meteora sp. Gefforella Asphyoliomiana Meteora sp. Gefforella Asphyoliomiana Meteora sp. Malawimoras plastica Diphyleia rotens Arabronoras migra Arabronoras migra Arabronoras trabens Malawimoras plastica Diphyleia rotens Rigilia ramosa Rigilia r	Kipedia bialata Glardia lambila Glardia lambila Glardia lambila Glardia lambila Glardia lambila Glardia lambila Laptomonas vaginalis lakoba libera lakoba libera lakoba libera lambila lakoba libera lambila lakoba libera lambila lam	

CAF1C OG presence

# Kelch OG presence Kelch OG presence Kelch OG presence Aplanchyrum finantim microadriation Berain microadriation Berain microadriation Berain microadriation Berain microadriation Financia microadriation Aplanchyrum finantim microadriation Financia microadriation Aplanchyrum financia Applanchyrum financia Applanchyrum financia Aplanchyrum financia Applanchyrum financia Applan

Kelch. HG0.32:HCFC1/HCFC2
Kelch. HG0.32:HCFC1/HCFC2
Kelch. HG0.18:like:FBXO42/KLHDC10/LZTR1:likeclu:...
Kelch. HG0.18:RABEPK
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Kelch. HG0.15:KLHDC1
Kelch. HG0.15:KLHDC1
Kelch. HG0.25:FBXO42
Kelch. HG0.15:KLHDC1
Kelch. HG0.22:likeclu:25
Kelch. HG0.32:like:HCFC1/HCFC2:likeclu:32
Kelch. HG0.32:like:HCFC1/HCFC2:likeclu:32
Kelch. HG0.33:like:HCFC1/HCFC2:likeclu:32
Kelch. HG0.35:LKHDC10
Kelch. HG0.35:LKHDC10
Kelch. HG0.35:Like:HCFC1/HCFC2:likeclu:32
Kelch. HG0.35:Like:HCFC1/HCFC2:likeclu:32
Kelch. HG0.35:Like:HCFC1/HCFC2:likeclu:32
Kelch. HG0.35:Like:HCFC1/HCFC2:likeclu:32
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Kelch. HG0.25:Like:HCFC1/HCFC2:likeclu:32
Kelch. HG0.25:Like:HCFC1/HCFC2:likeclu:32
Kelch. HG0.24:Like:FBXO42/KLHDC10/LZTR1:Likeclu:...
Kelch. HG0.24:Like:FBXO42/Likeclu:25
Kelch. HG0.24:Like:FBXO42:Likeclu:25

# zf-C2H2 OG presence

zf-C2H2.HG1.1:GLI1/GLI3/GLIS1/GLIS3 zf-C2H2.HG1.0:AEBP2 zf-C2H2.HG0.2:like:ZNF335:likeclu:4 zf-C2H2.HG0.5:like:ZNF335:likeclu:4

3 4 3	0 0 1 2 2 2 2 2 3 1 2	4 2 2 2 2 3 0 1		2	231123		1 0	1 0 0 2		0 1 1 0 0 1 2 2 1	1 2 3 3 1	, , , , , , , , , , , , , , , , , , , ,			
1 7 2 1 0 2		1 1 1 1 1 1 0 2	0	0	1 2 1 0 1 1					0 0 0 0 1 0 0 0 0					
Centruroides sculpturatus Limulus polyphemus Daphnia pulex	Schistosoma massoni Echinococus mullilocularis Lingula anatina Phoronis australis Notospermus geniculatus Hebbdella robusta Capitella teleja C	Morbakka virulenta Aurelia aruria Ciylia hemisphaerica Hydra vulgaris Slyophora ipsillata Acropora digifilera Exaliptasia palilai Nematostella vectensis	Trichoplax adhaerens	Mnemiopsis leidyi	Leucosolenia complicata Sycon ciliatum Oscarelia camela Ephydatia muelleri Tethya wilhelma Amphimedon queenslandica	Salpingoeca rosetta Monosiga brevicollis	Ministeria vibrans Capsaspora owczarzaki	Chromosphaera perkinsii Ichthyophonus hoferi Creolimax fragrantissima Sphaeroforma arctica	Corallochytrium limacisporum	Rhizophagus irregularis Mortireila elongularis Usiliago maydis Coprinopsis clareira Cryptococcus neoformans Cryptococcus neoformans Sacchadomyose opervisiae Tuber melanosponum Neurospona crassa Schizosaccharomyoses pombe	Coernalisia levelisa Umbelopsis ramanniana Rhizopus delemar Mucor circinelloides Phycomyces blakesleeanus	Catentria in injuliulae Allomyces macrogyrus Spizelnomyces purodatus Barachomyces purodatus Barachomyces spizy Gendobatidis Gendodya prolifera Condodokis coronatus	Fonticula alba	Thecamonas trahens	Pygsuia biforma

# zf-CXXC OG presence

zf-CXXC.HG1.0:CXXC1/CXXC4/CXXC5/DNMT1/FBXL19/KD... zf-CXXC.HG1.5:AP001267.5/KMT2A/KMT2B zf-CXXC.HG1.4:like.3P001267.5/KMTZA/KMT2B:likec... zf-CXXC.HG1.3:like:AP001267.5/CXXC1/CXXC4/CXXC5...

Guillardia theta
Goilmonas avonlea
Cyanophora paradoxa
Cyanophora
Cyandidoschyca umbulica
Cyanophora
C

# WD40 OG presence WD40 OG presence Guillanda hea soncia Cyandos y siculary siculations Anaccocca sophagetivess Guillanda hea soncia Cyandos y siculary siculations Anaccocca sophagetivess Guillanda hea soncia Cyandos y siculary siculations Anaccocca sophagetivess Guillanda hea soncia Cyandos y siculary siculations Anaccocca sophagetivess Guillanda hea soncia Cyandos y siculary siculations Guillanda hea soncia Cyandos y siculary siculary Anaccocca sophagetivess Guillanda hea soncia Cyandos y siculary Guillanda hea soncia Guillanda

WD40.HG1.3:WDR82
WD40.HG0.7:RBBP5
WD40.HG2.1:WDR64WR5B
WD40.HG2.1:WDR64WR5B
WD40.HG2.1:WDR64WR5B
WD40.HG1.18:like:AHI1/WDR44.likeclu:16/17
WD40.HG1.18:WDR44
WD40.HG1.14:HDC3
WD40.HG1.12:DCAF8/DCAF8L2
WD40.HG1.7:AFI1
WD40.HG1.7:AHI1
WD40.HG1.7:AHI1
WD40.HG1.17:AHI1
WD40.HG1.1:B:RBBP5:likeclu:7
WD40.HG1.1:B:BBP5:likeclu:7
WD40.HG1.1:B:BBP5:likeclu:10
WD40.HG1.1:B:BBP5:likeclu:10
WD40.HG1.1:B:BBP5:likeclu:10
WD40.HG3.4:like:EED.likeclu:0