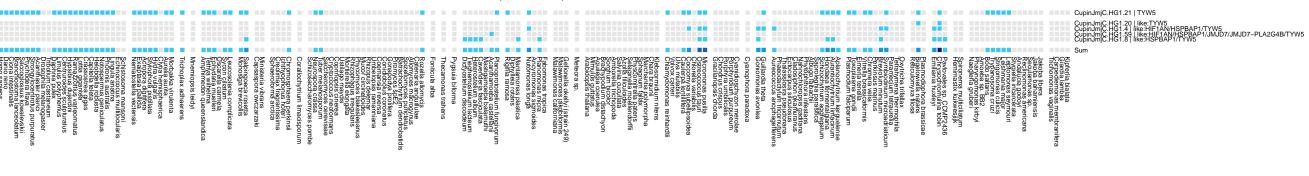
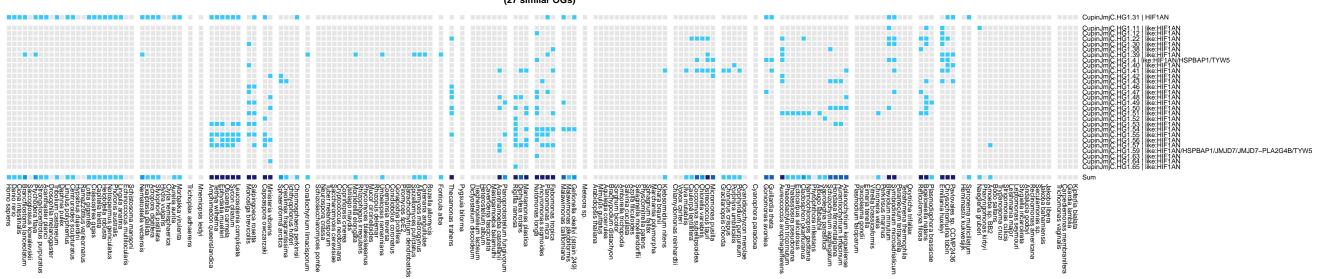
### CupinJmjC.HG1.21, TYW5 (4 similar OGs)



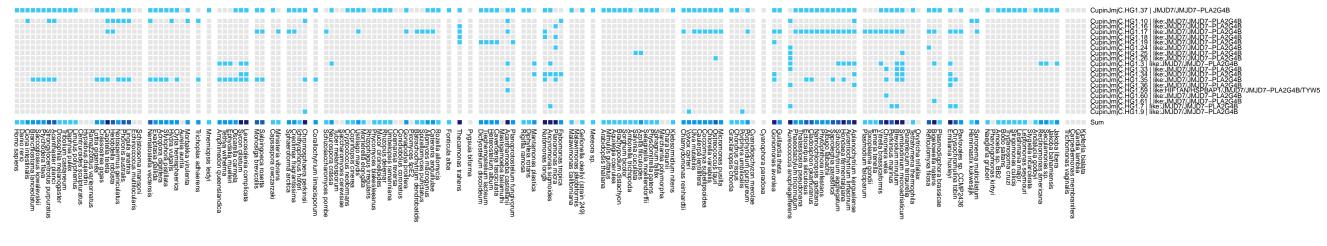
### CupinJmjC.HG1.29, HSPBAP1 (6 similar OGs)

				CupindmiC-HG1-25   Ikke-HSPBAP1 CupindmiC-HG1-26   Ikke-HSPBAP1 CupindmiC-HG1-26   Ikke-HIF1ANVHSPBAP1/TYW5 CupindmiC-HG1-82   Ikke-HSPBAP1/SPBAP1/JMJD7/JMJD7-PLA2G4B/TYW5 CupindmiC-HG1-81   Ikke-HSPBAP1/TYW5
pscalaria curriera pscalaria curriera lethy witherina in lethy witherina lethy wit	Thecamonas trahens Fonticula alba Rozzalla allomycis Aletrania angulinde Aletrania ang	Cyan op hora paradoxa Cyanidiscischizon merolæ Pop phyrad umbliticalis Pop hyrad umbliticalis Riccinoronas pullida Nicromonas reinhardtii Nebsorm tidum nitens Nara braunii Nicromonas reinhardtii Nichosom tidum nitens Nara braunii Nicromonas reinhardtii Nicr	claridia lamiblia capademonas membranitera capademonas regularios capademonas membranitera inchomoras vaginalis parodemonas segularios abahamienas segularios pasamericana Andalucia pasamericana sygella incapadema pasamericana sygella incapadema pasamericana pasamer	Kritetila halata

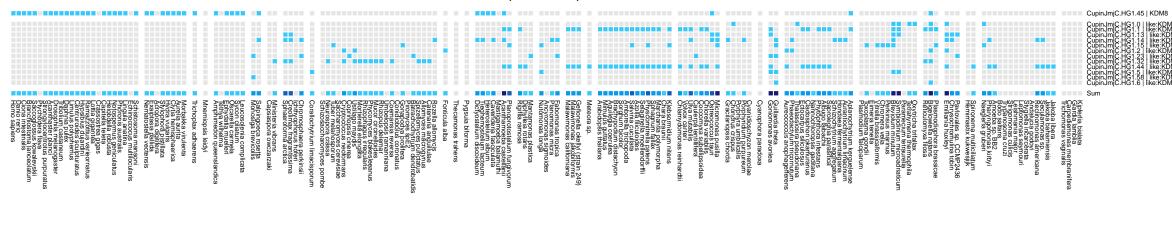
## CupinJmjC.HG1.31, HIF1AN (27 similar OGs)



## CupinJmjC.HG1.37, JMJD7/JMJD7-PLA2G4B (18 similar OGs)



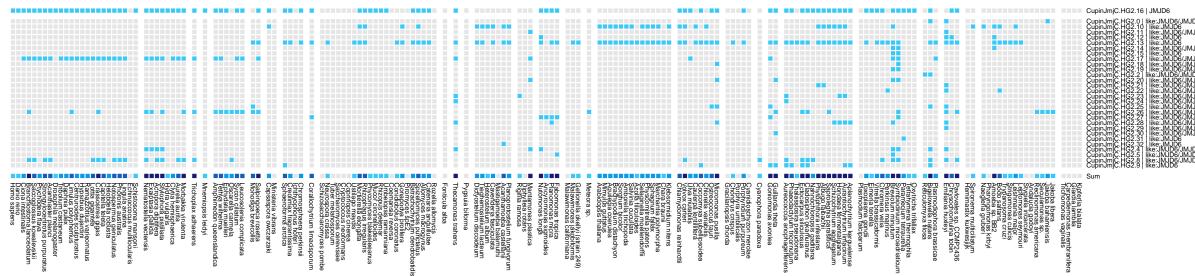
# CupinJmjC.HG1.45, KDM8 (12 similar OGs)



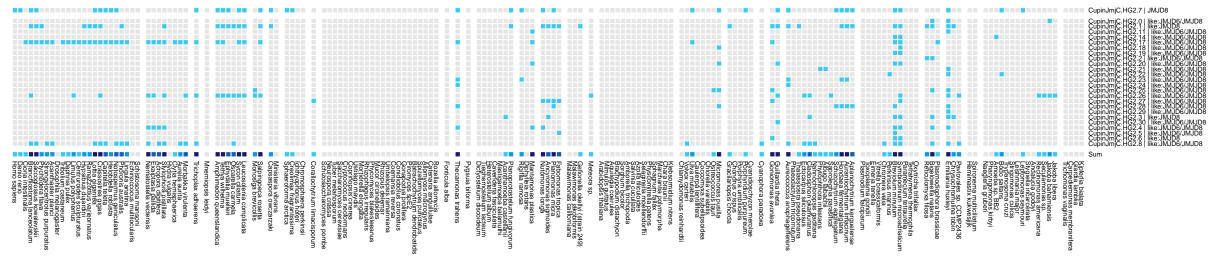
### CupinJmjC.HG10.0, KDM6A/KDM6B/UTY (0 similar OGs)

					CupinJmjC.HG10.0   KDM6A/KDM6B/UTY
					Sum
Trichoplax adhaerers Morbake virulenta Aurelia aurita Aurelia aurita Aurelia aurita Cylla hemisphaerica Cylla auxita Lyndicia auxitalis Lyndicia satiralis Lyndicia auxitalis Lyndicia satiralis Cylla hemisphaerica Cylla hemisph	Creolimay fragrantssima Sphaerdoforma arctica Ministeria abbanas Capasaspora owczarzaki Salpingoepa rosetta Monosiga brevicioliis Leucoseljenia complicata Spcon ciliatum Oscarelia carmela Oscarelia carmela Cestarelia carmela Teihya withelma Teihya withel	Fonticula alba Rozella allomycis Cateriaria angululae Cateriaria angululae Cateriaria angululae Cateriaria angululae Salimyces macrogynus Salimyces macrogynus Salimyces sarez- Gonapody briteria Condidoxid souronalus Condidoxid souronalus Condidoxid souronalus Condidoxid souronalus Umbelopesis Iranananiana Rizopus delemar Rizopus del	Klebsomrülim nitens Chara brauni Marchania polymorpha Berschmittella patens Salvinia crudilai Salvinia salvinia Salvinia salvinia Salvinia salvinia Martinonas lakohiomis Balomonas micra Salvinia salvinia Balomonas micra Salvinia salvinia Balomonas piaga Mantamonas piaga Mantamonas piaga Mantamopas pia	ficialary mean the imorphila ficial price of the control of the co	Kiplerila bialata Glardia lambian Carpediemonas membranifera Carpediemonas membranifera Tichomonas vaginalis Jakoba tahamiensis Seculamonas si Seculamonas si Seculamonas seymouri Leptomonas americana Svygelia incarpetrata Septomonas sulicis Seculamonas sulicis Septomonas sulicis Septomonas sulicis Septomonas sulicis Septomonas sulicis Sulforenan anuticisiatum Hemmania major Themmanis kukwesijik Paviorales sp. CRAP2436 Emiliana huxleyi Desmodiophora brassicae Begistweilia nafasis

## CupinJmjC.HG2.16, JMJD6 (28 similar OGs)



## CupinJmjC.HG2.7, JMJD8 (24 similar OGs)



## CupinJmjC.HG3.0, RIOX2 (0 similar OGs)

CupinJmjC.HG3.0 | RIOX2

Chipmosphaera perkinsii Chipmosphaera perkinsii Chipmosphaera perkinsii Chipmosphaera perkinsii Chipmosphaera chipmosphaera chipmosphaera chipmosphaera owczarzaki Sabingopeca rosetta Winisteria wibraesa worzena diapragoeca rosetta Wohosiga brevicollis Leucosphia menilean Mohosiga brevicollis and Armphinerula wirelia avrita di Mohosiga and Mohosiga brevicolis and Mohosiga	Acaribramosba castielitati yasatigamosba balamuthi tasaguuata balamuthi cavendena fasaguuata teeposeluma discordeum Diogyaselum discordeum Pygsula biforma Thecamonas trahens Fonticula a bba Rozalla allumyois Gareira allumyois Battardochytrium dendrot Garumyoss Stoffera Condidoduls comoraus Spizelomyoss punkauss Spizelomyoss	Chultyra unbulicains Graciliariosis bhorda Micromonas pusilia Alicomonas pusilia Alicomonas pusilia Alicomonas pusilia Alicomonas reinhard Chiamydomonas inchiama Marionas graphia licomolas Saphia	Jaickia bahisniensis Jaickia bahisniensis Aculamonas Jamericana Ja
ŭ š	airdis		um Jum

## CupinJmjC.HG3.3, RIOX1 (2 similar OGs)

				CupinJmjC.HG3.3   RIOX1
				CupinJmjC.HG3.1   like:RIOX1 CupinJmjC.HG3.2   like:RIOX1
				Sum
Scan ciliatum — Provincia Cocco ciliatum — Provincia Cocco ciliatum — Provincia Composito del Provincia muelleri Amplimento nauensiandica Mnemiopsis leidyi Trichoplax adhaerens Montakka virulenta Aurelia aurita herinya virulenta Aurelia aurita herinya subrasia painta Auropora digitilera Chimococcus multilocularis Chinococcus Chinoc	Rozella lidomycis Caternaria angiuliula Caternaria angiuliula Caternaria angiuliula Caternaria angiuliula Caternaria angiuliula Caternaria Cate	Kardhynordium distachyon Aguilegia coen lae Minulis gurtatus Arabiopsis malaina Meleora su pul M	Autlanccytrium legrueiense Autlancocytrium aus Hondese i Autlancocytrium aus Hondese i Autlancocytrium augstegatum sehrocatoritum augstegatum sehrocatoritum augstegatum sehrocatoritum augstegatum sehrocatoritum augstegatum autlancocatoritum sehrocatoritum sehro	Kipbelia bisista Glardisi armbila Glardisi armbila Glardisi armbila Glardisi armbila Glardisi armbila Lakoba Ilivara Seculamonas vagnalis Seculamonas sapanis Redimonansa servicana Syndalucia godoylara Lakoba taharmensis Redimonansa servicana Syndalucia godoylara Lakoba taharmensis Redimonansa servicana Syndalucia godoylara Lakoba taharmensis Redimonansa servicana Seculamonansa servicana Seculamonansa servicana Seculamonansa servicana Seculamonansa servicana Seculamonansa servicana Seculamonansa servicana Servicana servicana Seculamonansa seculamonansa seculamonansa servicana Seculamonansa seculamonansa seculamonansa seculamonansa seculamonansa se

## CupinJmjC.HG4.1, JARID2/KDM5A/KDM5B/KDM5C/KDM5D

(1 similar OGs)

CupinJmjC.HG4.1 | JARID2/kDM5A/kDM5B/kDM5C/kDM5D CupinJmjC.HG4.0 | like:JARID2/KDM5A/KDM5B/KDM5D Sum

# CupinJmjC.HG6.4, AL451062.4/KDM4A/KDM4B/KDM4C/KDM4D/KDM4E/KDM4F (6 similar OGs)

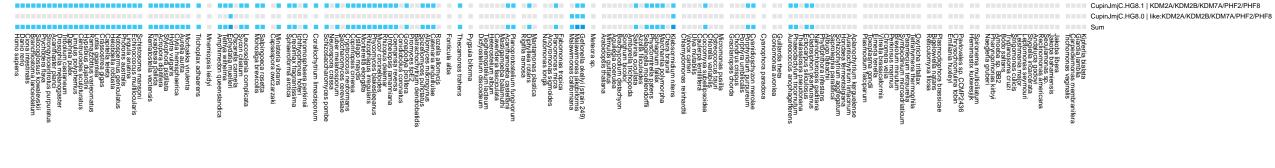
			CupinJmjC.HG6.4   AL451062.4/KDM4A/KDM4B/KDM4C/KDM4D/KDM4E/KDM4F  CupinJmjC.HG6.9       ke: Al451062.4/KBM4B
Chromosphaera perkinsi ichtmyophorus hderin ichtmyophorus hderin ichtmyophorus hderin ichtmyophorus hderin ichtmyophorus hderin ichtmyophorus hderin ichtmyophorus ichtma	Klebsopmölum nitens (Alaga braun) (Alaga bra	Nasgleria guberi Spiropena nutitolialırını Hemmastix kukwesijik Paylovales sp. CCMP2436 Chriscochomiuna tobin Emilania huxleyi Plasmodiophora brassicae Begisivmela risulax Christophora in ilica de propina Berkistis manikum Derkistis pataloka Derkistis derkistis derk	Skipleriia bialata Gardia, lambia Ga

# CupinJmjC.HG7.0, HR/JMJD1C/KDM3A/KDM3B (0 similar OGs)

CupinJmjC.HG7.0 | HRJ/MJD1C/KDM3A/KDM3B

Schistosoma mansoni Echinococcus multilocularis Iniquala anatha Morospermus gennoulatus Autospermus gennoulatus Autospermus gennoulatus Capitalia ta ela visa Capitalia ta ela visa Capitalia ta ela visa Capitalia del visa Barnazzottus variejomatus Appsibute, dulartiola	Morbakta virulenta Aurelia aurita Cytia hemisphaerica Cytia hemisphaerica Kytophora pistillata Esruptora offelliera Permatostella vectensis	miopsi:	con cliatica carella carella carella carella carella carella mondia mond	saspora owczarzaningoeca rosetta osiga brevicollis	Ichthyophonus hoferi Creolimax fragrantissima Sphaeroforma arctica Ministeria vibrans	Corallochytrium limacisporum Chromosphaera perkinsii	Coprinopsis cinerea Cryptococcus neoformans Saccharomyces cerevisiae Tuber melanosportum Neurospora crassa Schizosaccharomyces pombe	2022	Rozella allornycis Catenaria anguliulae Allomycas macrogynus Spizellomycas pundatus Barrachochyrrium dendrobatidis Piromyces spize.	Fonticula alba	suia biform	Planoprotosielium fungiyorum Azanthamoeba saseillärii Mastigamoeba balamuthi Caverigeria fasolularuthi Leterosielium album a Tieghomostelium hacteum Dictyosielium disondeum	Mantamonas plastica Diphylleia rotans Rigifia ramosa	Fabomonas tropica Planomonas micra Ancyromonas sigmoides Nutómonas longa	Gefionella okellyi (strain 249) Malawimonas jakobitormis Malawimonas californiana	Arabidopsis thallana Meteora sp.	Salvinia ciciullata Amborella trichopoda Sorghum bicolor Brachypodum distachyon Aquilegia coerulea Mimulus guttaus	Kebsomaliyin nitens Chara brauni Marahania polymorpha Marahania polymorpha Sebsoomia labans Sebsoomia labans	treococcus tauri lorella variabilis ccomyxa subellii ccomyxa subellii ulerpa lentiliifera a mutabilis vox carteri vox carteri	Chóndrus crispus Gracilariopsis chorda Micromonas pusilla	cyanoprora paradoxa Cyanidoschyzon merolae Porphyridium purpureum Porphyra umblicalis Porphyra umblicalis	Guillardia theta Goniomonas avonlea	Naimotriloropsis gaditana Cladosphon okamuranus Edocaphus siliculosus Thalassiosita pseudonana Phaeodactylum troornutum Aureococcus anophageiferens	Schizodrytrium aggregatum Saprolegnia parasitica Albugo faibachii Dhumanhinara infestans

### CupinJmjC.HG8.1, KDM2A/KDM2B/KDM7A/PHF2/PHF8 (1 similar OGs)



## CupinJmjC.HG9.1, JMJD4 (3 similar OGs)

						CupinJmjC.HG9.1   JMJD4
						CupinJm(C HG9.0   like:JMJD4 CupinJm(C:HG9.3   like:JMJD4 CupinJm(C:HG9.3   like:JMJD4
						Sum
Morbakka virulenia Aurielia aurila Aurielia alle Aurielia au	Sphaefordima arctica Ministeria wibrans Capasaspora owezarzaki Capasaspora owezarzaki Sapingoera rosetta Miniosiga breviocilis Leucosolenia complicata Sycon cilatum Cescarelia racellela Leuropytatia muellela Leuropytatia muellela Leuropytatia muellela Leuropytatia muellela Amphinnedora queenslandica Amphinnedora seladyi Trichon chy saftorom	Rozella altomycis charles Rozella altomycis charles des ma copyrula is shrelly care ma	Meteora sp.  Gefionella odelly (strain 249) Malawimonas idiodificimis Malawimonas idiodificimis Malawimonas della	Cyanophora paradoxa Cyanophora paradoxa Cyanophora paradoxa Cyanophora paradoxa Cyanophora paradoxa Dophyra umbilicalis Chondrus crissps Gracilarloysis chorda Micromonas pusilir Chordelia variabilir	Emilyadu, hunumi er uumi Emilyadu, hunumi Emilyadu en ee	Kiperlia bisalab Giardia armilala Giardia armilala Giardia armilala Giardia armilala Tirichomoras membranifera Tirichomoras spanifera Seculanonas spanifera Seculanonas spanifera Seculanonas armilicital Seculanonas armilicital Legishmania major Strigomoras cultura Strigomoras cultura Strigomoras cultura Hamilia spanifera spanifera spanifera spanifera Hamilia spanifera spanif

#### SWIRM.HG1.0, MYSM1 (0 similar OGs)

SWRM.HG1.0 | MYSM1

### SWIRM.HG1.2, SMARCC1/SMARCC2 (1 similar OGs)

SWIRM.HG1.2 | SMARCC1/SMARCC2 SWIRM.HG1.1 | like:SMARCC1/SMARCC2 Sum

### SWIRM.HG2.1, TADA2A (1 similar OGs)

(1 sim

SWIRM.HG2.1 | TADA2A
SWIRM
HG2.1 | TADA2A
SWIRM
Grappsdemonas mambranilera
Grappsdemonas grappsdemonas mambranilera
Thermonas mambranilera
Jakoba libera
Ja

### SWIRM.HG3.0, KDM1A (0 similar OGs)

SWIRM.HG3.0 | KDM1A