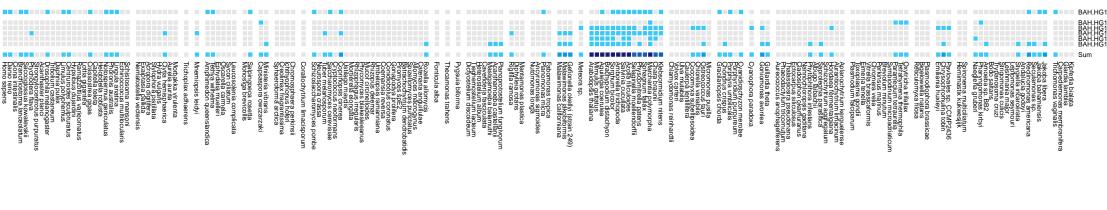
ADD_ATRX.HG1.0, ATRX (0 similar OGs)

ADD_ATRX.HG1.0	ATRX
ADD. In the composition of the	ATRX

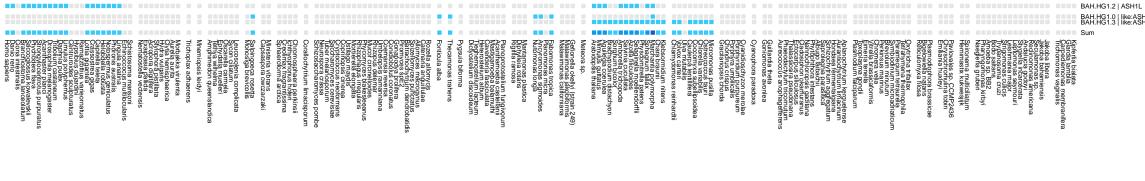
ADD_DNMT3.HG1.0, DNMT3A/DNMT3B/DNMT3L (0 similar OGs)

 	ADD_DNMT3.HG1.0 DNMT3A/DNMT3B/DNMT3L
	Kippeila biajata Garda dembis as membranifera Jacka libera marens Secularmonas americana Jacka libera marens Secularmonas demenda Jacka libera marens Secularmonas culticis Jacka libera marens

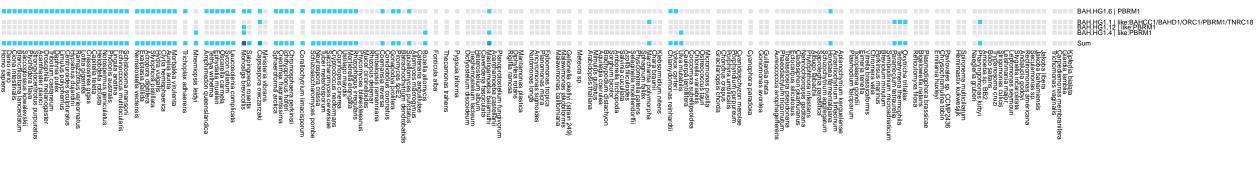
BAH.HG1.11, ORC1 (5 similar OGs)



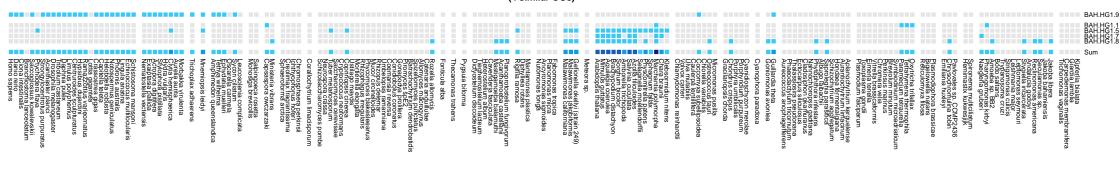
BAH.HG1.2, ASH1L (2 similar OGs)



BAH.HG1.6, PBRM1 (3 similar OGs)



BAH.HG1.9, BAHCC1/BAHD1/TNRC18 (4 similar OGs)



BAH.HG2.0, DNMT1 (0 similar OGs)

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Mortakka virulenta Aurelia aurita Cytia hemisphaerica Hydra vulgats Sykophora pistillara Adopora digitilera	oplax	Leucosoleria complicata Sycon ciliatum Oscarella carrnela Ephydatia muelleri Ethya wilhelma Amphimedon queenslandica Mnemioosis leidvi	Salpingoeca rosetta Monosiga brevicollis	Onromosphaera perkinsii chttyophonus hoferi creolimax fragrantissima sphaeroforma arctica Ministeria vibrans	Corallochytrium limacisporum	Copirinopsis cineres Syptococcus neoformans Sectionomyces cenevisiae Querra de la crassa Querra de la crassa Querra de la crassa Schizosacchiaronyces pombe	Mucor drignelloides Phycomyces blakesleeanus Ahizophagus irregularis Mortierella elongatia Vstilago maydis	Gunapodya Piolineia Condidobliks coronadus Coemansia reversa Umbelopsis ramanniana Rhizopus de lejmar	Roozella allomycis Catenaria angulliulae Allomyces madrogynus Spizellomyces punctatus Barrachochyfrium dendrobatidis Promyces safety	Fonticula alba	The camonas trahens	Pygsuia biforma	Planoprotostelium fungivorum Acanthamoeba castellanii Mastigamoeba balamuthi Caveroteeria rasculata Helerostelium alalum Tieghemostelium dacteum Dictyostelium discotdeum	Mantamonas plastica Diphylleia rotans Rigifila ramosa	Fabomonas tropica Planomonas micra Ancyromonas sigmoides Nutómonas longa	Gefionella okellyi (strain 249) Malawimonas jakobiformis Malawimonas californiana	Meteora sp.	Ambridge Ciclidad Ambridge Cic

BAH.HG2.0 | DNMT1

BAH.HG3.0, MTA1/MTA2/MTA3/RERE (0 similar OGs)

Mnemiopsis leidyi	Leucosolenia complicata Sycon dilatum Oscarella carmela Ephydatia muelleri Tetriya wilhelma Amphimedon queenslandica	Salpingoeca rosetta Monosiga brevicollis	Ministeria vibrans Capsaspora owczarzaki	Chromosphaera perkinsii Ichthyophonus hofferi Creolimax fragrantissima Sphaeroforma arctica	Corallochytrium limacisporum	Coprincipsis cinerea Cryptococcus neoformans Saccharomyces cerevisiae Tuber melanosporum Neurospora crassa Schizosaccharomyces pombe	Phycomyces blakesleeanus Phycomyces blakesleeanus Rhizophagus irregularis Mortierella elongata Ustilago maydis	Coerialisia ievelsa Umbelopsis ramanniana Rhizopus delemar Mircor circinelloides	Gonapodya prolifera Conidiobólus coronatus	Rozella allomycis Catenaria anguillulae Allomyces macrogynus Spizellomyces pundatus Batrachochyrrum dendrobatidis	Fonticula alba	Thecamonas trahens

BAH.HG3.0 | MTA1/MTA2/MTA3/RERE

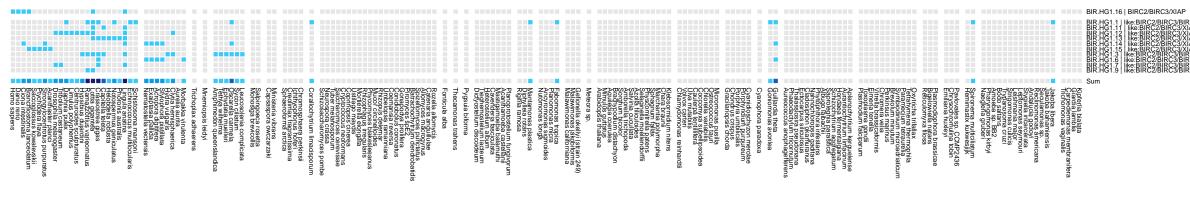
BIR.HG1.0, BIRC5 (3 similar OGs)

																								BIR.HG1.0
																								BIR.HG1.2 BIR.HG1.4 BIR.HG1.5
																								Sum
Exhibised zülliden Remaiostella vectenisis Schistosoma mansoni Exhistosoma mansoni Ingulia anatha Hoforiis australis Hoforiis Hoforiis Hoforiis Ho	Mriennojss leidyi Trichoplax adheerens Morbakka virulenta Aurelia aurita Aurelia aurita Gyrla tennispheerica Gyrla tennispheerica Acytophod ja isilliata	Seucosojenia computata Seucosojenia computata Oscore la atumi polici Septydatia muella Tehrya willelma Tehrya willelma Amphimedon queensiandica	Ministeria vibrans Alpingoeca rosetta Monosiga brevicolis Louscelosia cometion	Corallocnytrium limacisporum Chromosphaera parkinsii (prihyvopikonisi hagrandissima Sphaeroforma arctica	Hitzonflaus irrevuleuring Hitzonflaus irrevuleuring kinded ill elongala ill sullidad maydis. Coprinopasi cire ne domans. Saccharomyos cerevisiae illustratoryos cerevisiae illustratoryos cerevisiae illustratoryos cerevisiae Neurospora cirassa contratoryos contratoryos contratoryos contratoryos contratoryos contratoryos pombe	Alignicus marcuyorus Spreidomyces puntatus Batrachodyntium dendrobatids Pinomyces Sprei Gonapodya polifera Condidodius connatus Condidodius connatus Compania reversa Compania	Thecamonas trahens Fonticula alba Rozella allomycis	Heteiostelium album Heteiostelium lacteum Dictyostelium discondeum Pygsula biforma	Rigifila ramosa Planoprotostelium fungivorum Acanthamoeba castellanii Mastigamoeba balamuthi Çavenderja tasgiculata	banomaras indica- banomaras indica- Antyromonas signaides Nutromonas longia Mantamonas plastica Dip Tylleia rottas i	Geffonella dellyi (strain 249) Walawimonas Jakobiomis Walawimonas Galiomiana	Physiconitrella patens Seagnella moletandorfii Azolla filouloiles Azolla filouloiles Agenella projetted Serghum Jecolopoda Serghum Jecolopoda Brazhypodium disachyon Aguilegia coerulea Minutis guttaus Minutis guttaus Minutis guttaus Minutis guttaus Minutis guttaus	Klebsormidium nitens Chara brauni Marchantia polymorpha Sphagnum fallax	Micromoras pusila Ostraopocaus sum Ostraopocaus sum Chorella variabilis Cocomyxa subelipsoidea Cauterpk len tillifera Cauterpk artieri Volvox carteri Volvox Carteri	Cyanidizativa merolae Cyanidizativa merolae Popilyridium purpureum Popilyria umbilicalis Chondrus crispus Gracilariopsis chorda	Guillardia theta Goniomonas avonlea Cvanophora paradoxa	Autanitocytrium indecimina Hordase idementaligina Schizochyrium agglegatum Springerina indecimina Hordanita indecimina	- Zalanesium teitauteila - Zalanesium teitaute	igeljowella rajans Reticulomyva filosa Oxyfricha trifallax Jetrahymena thermophila	Pavlovales sp. CCMP2436 Chrysochromulina tobin Emiliania huxleyi	Edodo Saitans Edodo Saitans Amarytigornomas kirbyi Naegleria gulveyesiik Spironema multiciliatum	Liskoba i baramiensis Seculamonias si Seculamonias si Recilimonoras americana Analicula godovi Mygleika inčarcerata Mygleika inčarcerata Liskomanias augmouri Liskomanias augmouri	Kipferlia bialata Glardia lambila Carpediemonas membranifera Tirchomonas vaginalis	

BIR.HG1.10, BIRC6 (5 similar OGs)

Schistosoma mansoni Schistosoma mansoni Echinococcus multilocularis Lingula anatina (Mancacata Mancacata M	Morbakka virulenta Ayriella aurie Ayriella aurie Ayriella aurie Hora vulgelis Sylvobrod pistillata Akripora digillera Evalptata ballida Nenadossella vectensis	Mnemiopsis leidyi Trichoplax adhaerens	Leucoscienia complicata Sycon ciliatum Oscarela camela Ephydatia muelleri Tethya wihlema Amphimedon queenslandica	Salpingoeca rosetta Monosiga brevicollis	Ministeria vibrans Capsaspora owczarzaki	Chromosphaera perkinsii ichthyophonus hoferi Creolimax Tagrantissima Sphaeroforma arctica	Corallochytrium limacisporum	Coemansis ir wersa	Rozella allomyois Calenaria adulullulae Allomyose madrogynyis Spizellomyose punidalus Battashofyntium dendrobatidis Edonyose spize Fromyose spize Gonadodya profilera	Fonticula alba	Pygsuia biforma Thecamonas trahens	Panoprotoselium fundivorum Azantramoeba osalerilari Mastigamoeba balamuthi Cavendaria tasoculata Heterostelium album Tieghemostelium album Dictyostelium discoudeum	Mantamonas plastica Diphylleia rotans Rigirila ramosa	Fabomonas tropica Planomonas micra Ancyromonas sigmoides Nutomonas longa	Gefionella okellyi (strain 249) Walawimonas lakobiformis Malawimonas californiana

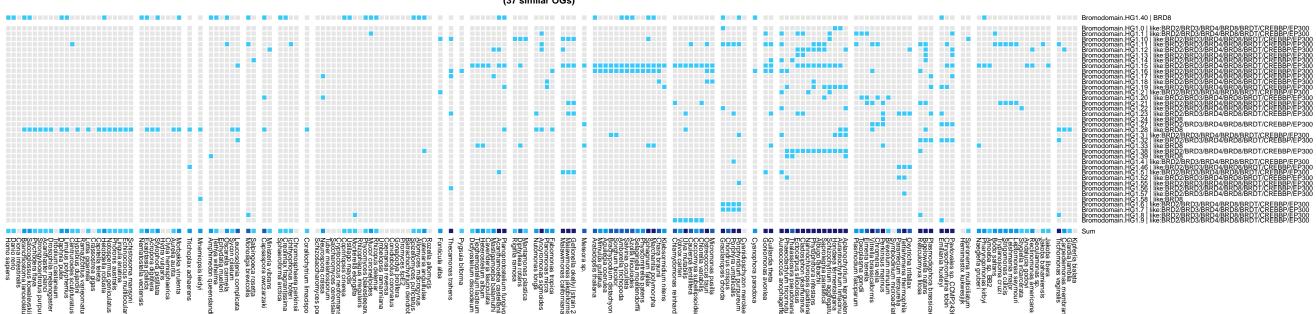
BIR.HG1.16, BIRC2/BIRC3/XIAP (10 similar OGs)



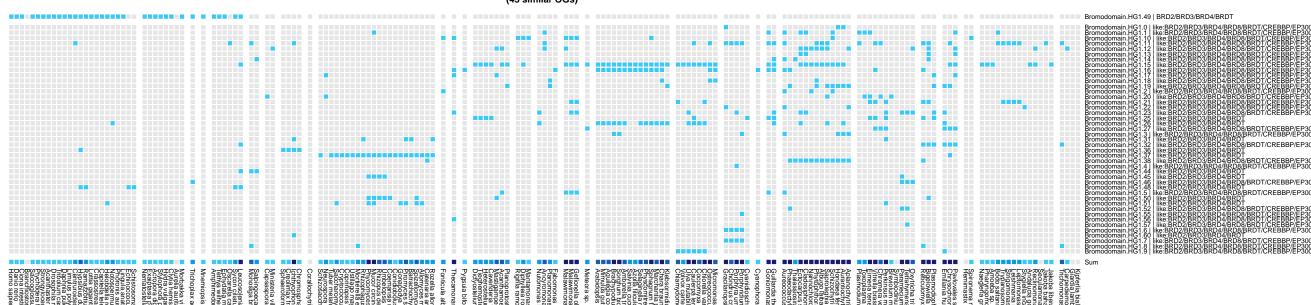
BIR.HG1.8, BIRC7/NAIP (5 similar OGs)

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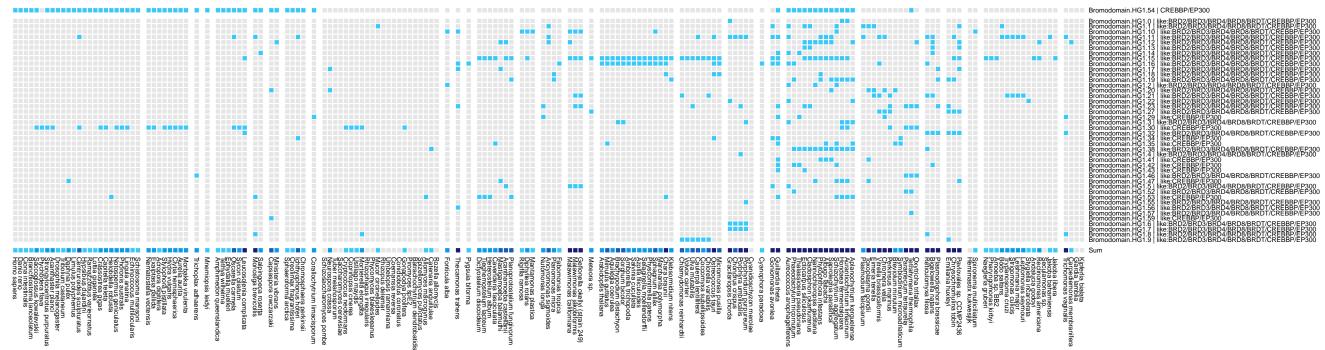
Bromodomain.HG1.40, BRD8 (37 similar OGs)



Bromodomain.HG1.49, BRD2/BRD3/BRD4/BRDT (43 similar OGs)



Bromodomain.HG1.54, CREBBP/EP300 (42 similar OGs)



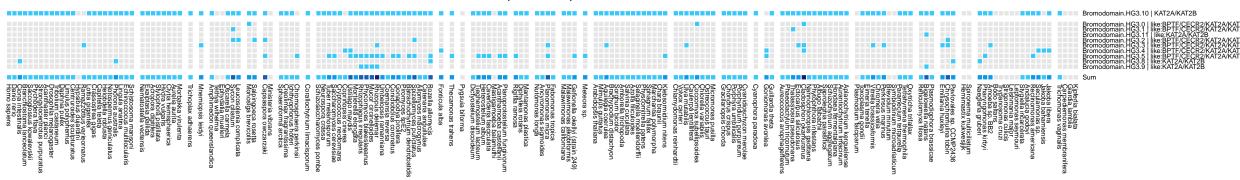
Bromodomain.HG2.3, BRD7/BRD9 (4 similar OGs)

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Schistosoma mansoni Echnoccous multilocularis Inquia anatima is Inquis anatima is In	Trichoplax adhaerens Morbakka yirulenta Ayrelia aurita Ayrelia aurita Ayrelia aurita Ayrelia aurita Ayrelia aurita Ayrelia aurita Syyda yuligarita Syyda yuligarita Ayroya dupitala Ayroya dupitala Exalubasia Jabilida Nematuste lia wectensis	Mnemiopsis leidyi	Salpingoeca rosetta Monosiga brevicollis	 Ministeria vibrans Capsaspora owczarzaki 	Chromosphaera Ichthyophonus I Creolimax fragra Sphaeroforma a	Corallochytrium	Nicor (riciniello)des Phycomyces (dekesteeanus Phycomyces (dekesteeanus Phycomyces (dekesteeanus Vointerilla elongdata Control (dekesteeanus Control (dekesteeanus Saccharomyces cerevisiae Luter malinosporum Vaurospora crassa pombe	Gonapodya pro Conidiobolus c Coemansia rev Umbelopsis ra	Rozella allomy Catenaria angi Catenaria angi Allomyces mac Spizellomyces Spizellomyces Batrachochytri	Pygsuia biforma	Planoprotostelium fungivorum Acanthamoeba castellänii Mastigamoeba balamuthi Caverideria fascicullata Hererostelium album Tieghemostelium lacquum Dictyostelium discordeum	Mantamonas plastica Diphylleia rotans Rigifila ramosa	Fabomonas tropica Plamomonas micra Ancyromonas sigmoides Nutómonas longa	Gefionella okellyi (strain 249) Malawimonas jakobiformis Malawimonas californiana	Meteora sp.	Azolfa filiculoi Salvinia cucu Amborella tric Amborella tric Sorghum bicc Brachypodium Aguilegia coe Mimulia gutta Arabidopsis tr	rmidium braunii hum falli hum falli mitrella mella mo	Volva muta Volvox car Chlamydo	

Bromodomain.HG2.5, BRD1/BRPF1/BRPF3 (4 similar OGs)

													Bromodomain.HG2.5 BRD1/BRPF1/BRPF3 Bromodomain.HG2.0 like:BRD1/BRD7/BRD9/BR Bromodomain.HG2.1 like:BRD1/BRD7/BRD9/BR Bromodomain.HG2.2 like:BRD1/BRD7/BRD9/BR Bromodomain.HG2.2 like:BRD1/BRD7/BRD9/BR
Eckilikocourus iminisirii Eckilikocourus iminisirii Eckilikocourus iminisirii Eckilikocourus iminisirii Eckilikocourus Industrialis Notosperimus geniolatus Heliobalia pobista Optivati in erio das Eckilikocourus Industrialis Optivati in erio das Eckilikocourus Industrialis Optivati in erio das Eckilikocourus Industrialis Optivati Industrialis Optivati Industrialis Ind	Trichoplax adhaerens Mochaka yirulenta Aurelia aurita Aurelia a	Mohodiga brevicollis [eucosolenia complicata Sycon ciliatum Sycon ciliatum Gesarelia campila Ephydatia muelleri Teriha wilierina Indina complementa co	Coralloctryfrum Imacisporum Chromosphaera perkins ii Chromosphaera perkins ii Chromax Hagrantissima Sphaerotorma arctica Ministeria vibrans Capasapora owczarzaki Saskinospora owczarzaki	Catella al diministra del Alfornyces macrogynus Alfornyces macrogynus Barreynus Marchael Series (1988). Promises self-20	Hederosteilum album Tieghemosteilum ladeum Didyosteilum discoideum Pygsula biforma Thecamonas trahens Fonficula alba	Cgeldoreia okelyi, Istian (249) Malawimoraa siahiorriana Fabomonas trojica Fabomonas trojica Falamonas micra Andoromonas sorgia Mudamonas okega Mandamonas palastica Diphylleia rodans Rigilia ramosa Rigilia ramosa Rigilia ramosa siahiorium Anandamoneka tastellävi Avastidamoeka tastellävi Cave fiderija fasiculata	y kees cyrindyin nineris Marchanila polymorpha Sphagnum fallax Shagnani allay Shagnani fallay	Aciphyndium burpureuwer Aciphyndium burpureuwer Aciphyna umbildiaisun Chondrus crispus Gracilaropas chorca Gracilaropas chorca Micromonas pusilia Ostrocorcus fauli of Chorella variabilis Coccomy vas ubpellipsoidea Coccomy vas ubpellipsoidea (Caulerpa legililliera Gracilaropa Charlamydomonas reinhardtii Chiamydomonas reinhardtii Chiamydomonas reinhardtii	r cyclade is erimentalgana de rochade is erimentalgana de Service politici ma glidegatum Albudo falbachii assicia de Phytophimora intestans Namochioropsis gaditana fedacuspino si jedini varimentali ma service de Calcuspino si jedini varimentali ma service de Calcuspino si jedini prasi pr	Cyvincha Irialiax Cyvincha Irialiax Teirahymera Iterrophila Carabeepium terrophila Sevolum muhum sediaticum Sevolum muhum sediaticum Sevolum muhum sediaticum Sevolum muhum sediaticum Kirialia Teiraka jaik Kirialia Teirak	Payloxides sp. CoMP2436 Chryscofromulina tobin Emiliania huxley Pjesmodigophora brassicae Beglowwiella nalaris Reliculornyxa filosa	Jakoba libprai Jakoba bhaminis Jakoba bhaminis Jakoba bahaminis Secullamoras Secullamoras Nyalela maracefada Ledomoras	Kipferila bialata Glardia lambita Glardia lambita membranifera Tichomoras veginalis

Bromodomain.HG3.10, KAT2A/KAT2B (9 similar OGs)



Bromodomain.HG3.6, BPTF (6 similar OGs)

			Bromodomain HG30 Ike BPTF/ Bromodomain. HG3.2 Ike BPTF/ Bromodomain. HG3.2 Ike BPTF/ Bromodomain. HG3.3 Ike BPTF/ Bromodomain. HG3.4 Ike BPTF/ Bromodomain. HG3.5 Ike BPTF/
America vibrans Cassaspora owzarzaki Salpingoeça roseita Moncosi prievrolisia Leucosolenia complicata Sycon gilatum Sycon gilatum Trichoptax adhaerens Morbaka virulenta Escarelia campla Entry autherima Amphimedro queenslandica Mnemiopsis leidyi Trichoptax adhaerens Morbaka virulenta Leucosolenia owensiandica Mnemiopsis leidyi Trichoptax adhaerens Morbaka virulenta Leucosolenia prievra Leucosolenia Le	Meteora sp. Geftonella okellyi (strain 249) Malawimonas daybitomiaria Fabromonas tropica Planomonas micra Ancyromonas sigmoides Nutiomonas olarya Mantamonas plastica Planoprotostelium fungivorum Acanhamoeta castellariii Heterostelium albumi Acanhamoeta castellariii Heterostelium albumi Acanhamoeta palamuthi Heterostelium albumi Acanhamoeta particula albumi Acanhamoeta particula albumi Albumi Acanhamoeta particularia Sarticularia anguilulara Albumia anguilulara Albumia anguilulara Albumia anguilulara Albumia anguilulara Sarticularia anguilularia Sarticularia angu	pricha trifalax Oyrticha trifalax Vitralia hassica tomis Evicilia hassica tomis Evicilia hassica tomis Evicilia hassica tomis Emeria tenella hassica tomis Emeria trifacia trifacia trifacia tomis Januaritochyrichi interenta Alianochiotopis adeldrana Januaritochyrichi interenta Oyan ohra paradoxa Oyan ohra ohra ohra ohra ohra ohra ohra ohra	Kipferija balata Kipferija balata Garda jermina membranifera Garda jermina membranifera Garda jermina membranifera Jekoba lubera jerminas sp. Secularmonas sp. Secularmonas sp. Recinomonas americana Smalucia godovi Recinomonas semmuni Leismania major, Sirgomonas culicis Bodovi seliama culicis Sirgomonas culicis Secularmonas semmuni Leismania major, Sirgomonas culicis Sirgomonas culicis Sirgomonas culicis Sirgomonas major, S

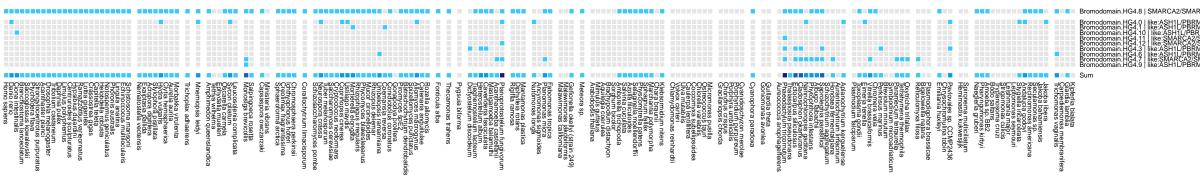
Bromodomain.HG3.7, CECR2 (6 similar OGs)

			Bromodomain.HG3.7 CECR2 Bromodomain.HG3.0 like:BPTF/CI Bromodomain.HG3.1 like:BPTF/CI Bromodomain.HG3.1 like:BPTF/CI Bromodomain.HG3.4 like:BPTF/CI Bromodomain.HG3.5 like:BPTF/CI Bromodomain.HG3.5 like:BPTF/CI
Corallochytrium limacisporum Cinjomosphaera perkinsi Cinjomosphaera perkinsi Cinjomosphaera perkinsi Capsaspora owezarzaki Sapsaspora owezarzaki Mentaka yirulenta Lambasa yirul	Meteora sp. Geffonelle oblig (strjam 24s) Geffonelle oblig (strjam 24s) Malawimonas lakiobiromis Fabormonas solida Fabormonas solida Fabormonas solida Fabormonas solida Mantamonas plastica Panoprotestellum fungiovum Azantamonas plastica Mantamonas plastica Dipylleia ratosa Mantamonas patentini Azantamonas tarbens Formicula albarocis Gefarearia angulitika Gefarearia angulitika Gefarearia angulitika Egalemostellum likoteum Pygsula biforma Thecamonas trahens Fornicula alba Egolamostellum likoteum Pygsula biforma Pygsula biforma Rozella allomytis Egalemostellum likoteum Pygsula biforma Pygsula biforma Pygsula biforma Rozella allomytis Egalemostellum likoteum Pygsula biforma Pygsula biforma Egolamostellum likoteum Pygsula biforma Egolamostellum Pygsula biforma	ficilibrimie ia Tilemnophia Paramecjum tertaurie a Tilemnophia Paramecjum tertaurie a Sambiodinium microadriaticum beginium mandum beginium salatica prastitud p	Kypterija bialaja Garpedemonas membanitera Carpedemonas vagnalis Carpedemonas vagnalis Lakoba bibariansis Secularionas saprercana Syndelia gazoobas Secularionas serimouri Legionnas serimouri Legionnas serimouri Legionnas serimouri Legionnas serimouri Legionnas sulicis Tytopomonas sulicis Tytopomonas sulicis Schoebas postatins Serionena muticiliajum Berionena muticiliajum Berionena sulicis Chryscotnoma muticiliajum Enimastis kukwesjik Environies sp. CCLPAP2436 Chryscotnomelis sp. CCLPAP2436 Chryscotnomelis sp. CCLPAP2436 Chryscotnomelis sp. CCLPAP2436 Chryscotnomelis sp. CCLPAP2436 Emiliania buxleyi

Bromodomain.HG4.5, ASH1L/PBRM1 (8 similar OGs)

							Bromodomain.HG4.5 ASH1L/PBRM1
			. .			.	Bromodomain. HG4.0 like. ASH1_PBRM1/S Bromodomain. HG4.1 like. ASH1_PBRM1/S Bromodomain. HG4.2 like. ASH1_PBRM1/S Bromodomain. HG4.3 like. ASH1_PBRM1 Bromodomain. HG4.3 like. ASH1_PBRM1/S Bromodomain. HG4.4 like. ASH1_PBRM1/S Bromodomain. HG4.6 like. ASH1_PBRM1/S Bromodomain. HG4.6 like. ASH1_PBRM1/S
							Bromodomain.HG4.10 like:ASH1L/PBRM1/ Bromodomain.HG4.2 like:ASH1L/PBRM1
			 			<mark>.</mark>	Bromodomain.HG4.3 like:ASH1L/PBRM1/S Bromodomain.HG4.4 like:ASH1L/PBRM1
		· · · · · · · · · · · · · · · · · · ·					Bromodomain.HG4.6 like:ASH1L/PBRM1/S Bromodomain.HG4.9 like:ASH1L/PBRM1/S
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Bromodomain.HG4.8, SMARCA2/SMARCA4 (9 similar OGs)



Bromodomain.HG5.0, ZMYND8/ZMYND11 (0 similar OGs)

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 Trichoplax adhaerens 	Mnemiopsis leidyi	Leucosolenia complicata Sycon dilatum Oscarella carmela Ephydatia muelleri Ethya wilhelma Amphimedon queenslandica	or a	Ministeria vibrans Capsaspora owczarzaki	Chromosphaera perkinsii Ichthyophonus hoferi Creolimax fragrantissima Sphaeroforma arctica	 Corallochytrium limacisporum 	Copriñopsis cinerea Cryptococcus neoformans Saccharomyces cerevisiae Tuber melanosporum Neurospora crassa Schizosaccharomyces pombe	Nucor circinelloides Phycomyces blakesleeanus Rhizophagus irregularis Wortierella elongata Ustilago maydis	Conidiobólus coronatus Coemansia reversa Umbelopsis ramanniana Rhizopus de lemar	Rozella allomycis Catenaria anguillulae Allomyces macrogynus Spizellomyces punctatus Batrachochytrium dendrobatidis Piromyces \$PEZ,	Fonticula alba	Thecamonas trahens

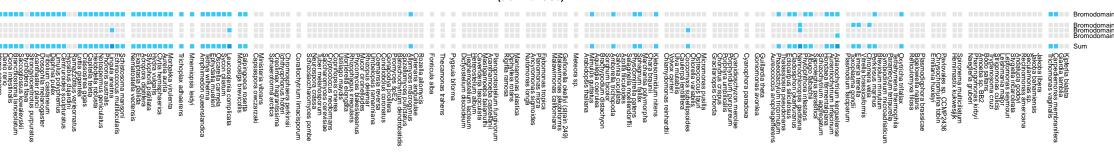
Bromodomain.HG5.0 | ZMYND8/ZMYND11

Bromodomain.HG5.1, SP100/SP140/SP140L/TRIM24/TRIM33/TRIM66 (0 similar OGs)

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Schistosoma mansoni is Carlinococcus multilocularis honococcus multilocularis honococcus multilocularis honococcus multilocularis e honococcus apriculatus e lobele la robusta della cultaris della cultaris della cultaris della cultaris della cultaris e la contia guarnitaris della cultaris della cultarista	Morbakka virulenta Aurelia aurita Ciylia henrisphaerica Hydra vulgaris Sylophora pisillata Sylophora pisillata Examplera figillata Examplera figillata	Mnemiopsis leidyi Trichoplax adhaerens	Leucosolenia complicata Svoon ciliatum Oscarella carmela Ephydatia muellen Teithya wilhelma Teithya wilhelma	Salpingoeca rosetta Monosiga brevicollis	Ministeria vibrans Capsaspora owczarzaki	Chromosphaera perkinsii Ichthyophonus hoferi Creolimax fragrantissima Sphaeroforma arctica	Corallochytrium limacisporum	Coprinopsis cinerea Coprinopsis cinerea Coppicoccus neoformans Saccharomyces cerevisiae Liber melanosporum Neurospora crassa Schizosaccharomyces pombe	Nucor circinelloides Phyconyces plakes leepanus Phycophagus irregularis Mortierale elongatia Ustilago maydis	conapodya prolifera Condiobólius coronatus Coemansia reversa Umbelopsis ramanniana Rhizopus de lemar	Rozella allomycis Catenaria anguillule Allomycas macrogynus Spizellomycas punctatus Barrachochytrium dendrobatidis Diromyces \$DEZ,	Fonticula alba	Thecamonas trahens	Pygsuia biforma	Planoprosselium fungiyorum Azanthamoeba castellärii Vastigamoeba balamuhi Qavenderia fasqoulata Teleposselium album Ireghemosselium lacum Dictyosselium discondeum	Mantamonas plastica Diphylleia rotans Rigifia ramosa	Fabomonas tropica Planomonas micra Ancyromonas sigmoides Nutómonas longa	Gefionella okellyi (strain 249) Malawimonas jakobiformis Malawimonas californiana	Weteora sp.

Bromodomain.HG5.1 | SP100/SP140/SP140LTRIM24/TRIM33/TRIM66

Bromodomain.HG5.2, BAZ1A/BAZ1B/BAZ2A/BAZ2B (3 similar OGs)



Bromodomain.HG6.0, TAF1/TAF1L (0 similar OGs)

Bromodomain.HG6.0 | TAF1/TAF1L

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Bromodomain.HG7.1, BRWD1/BRWD3/PHIP (1 similar OGs)

Bromodomain.HG7.1 | BRWD1/BRWD3/PHIP

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																					•					•				Sum	
strongy/ocentrouts purpuratus Ptychodera flava Saccoglossus kowalevskii Branchostoma lanceolatum Ciona intestinalis Danio rerio Homo sapiens	Centruroides sculpturatus Limulus polyphemus Daphnia pulex Tibolium castaneum Drosophila melanogaster Acanthaster planci	Inigula anatina Photonis australis Viotospermus geniculatus Heiopbella robista Capitella teleta Capitella teleta Crassostrea gigas Citasostrea gigas Cotta gigantea Garaczottus varijeomatus	S(v)opinoiä pisiillata Acropora digittiera Evalpiasia pallida Evalpiasia pallida Mematosiella vectensis Schistosoma mansoni Echinoccocus multilocularis	Trichoplax adhaerens Morbakka virulenta Aurelia aurita Cytta hamisphaerica	Ephydatila muelleri Tethya wilhelma Amphimedon queenslandica Mnemiopsis leidyi	Salpingoeca rosetta Mohosiga brevicollis Leucosolenia complicata Sycon Ciliatum Oscarella carmela	Capsaspora owczarzaki	Corallochytrium limadisporum Chromosphaera perkinsii Chromosphaera perkinsii Chromosphonus hoteri	Osiliago mayuis Copiniopsis cinetea Copiniopsis cinetea Saccharomyces cerevisiae Tuber melanosporum Tuber melanosporum Neurospora crassa Schizosaccharomyces pombe	Consideration of the control of the	Rozella Ilbrnycis Catenaria anguilluae Allomyces macrogynus Spzellomyces puritatus Spzellomyces puritatus Barachochyrium dendrobatidis Piromyces Sch2 Contabodylis coronatus	Pygsula bilorma Thecamonas trahens Fonticula alba	r-landy towselium turiliyiyu um Acanhamoeba sakellanii Mastigamoeba balanuthi Cavenderia tasciculata Heeleostelium album Tieghermostelium album Tieghermostelium ladeum	Muonionas ioriga Mantamonas plastica Diplylleia rotans Rigifia ramosa	Valawimonas iki kibi iki iki iki iki iki iki iki ik	Aquilegia coerulea Mimulis guttatis Arabidopsis thaliana Meteora sp.	Selagnella moéllendoffii Selagnella moéllendoffii Azolfa filiculoides Salvina cucullata Amborella ficinopoda Sorghum bicolo Braidiypodium distachyon	Chlarifydollohas leiniaddii Klebsormidii mittens Chara brauni Marchantia polymorpha Sphagnum fallax Physcomitrella patens	Micromonas pusilla Ostreozoccus taul Chlorella variabilis Coccomya subellipsoidea Caulerpa lenillileria Clydar mutabilis Volvox carteri	Cyanidioschyzon merolae Cyanidioschyzon merolae Porphyradium purpureum Porphyra umbilicaliis Chondrus crispus Chondrus crispus Gracilariopsis chorda	Guillardia theta Goniomonas avonlea Cvanophora paradoxa	Schizochyrium aggregatum Seprologna paja sifuca Seprologna paja sifuca Phytophythoca irlestans Nariochioropsis gadilana Cadosiphon okamuranus Cadosiphon okamuranus Fraeucarpus i irigunisus na Phaseodacylum irigornulum Aureozoccus anophagefierens	Plasmodum Balciparum Plasmodum Balciparum Aplanochytrium kerguelense Aurantiochytrium imacinum Hondaea fermentalgiana	Paramée jum teirauréila." Symbolodinum nurcoadriaticum Beroloum minutum Parkinsus majinus Citroneas ee jadomis Citrola brassicatormis Eimelja tereila ee;	Plasmodiophora brassicae Bigelowiella natans Reficulomyxa filosa Qxytricha trifallax	Hemimastix kukwesjijik Pavlovales sp. CCMP2436 Chrysochromulina tobin Emiliania huxleyi	Srigomonas culicis Trydanosoma cruzi Bodo saltans Amoeba sp. BB2 Pharyngomonas kirbyi Naeglerfa gruberi	Jakoba libera Jakoba bahamiensis Seculamonas sp. Reclinomonas americana Andaluda godoyi Stygella indarcerata Leghomonas seymouri Leghomonas seymouri	Kipferlia bialata Glardia lambila Carpediemonas membranifera Tirchomonas vaginalis		

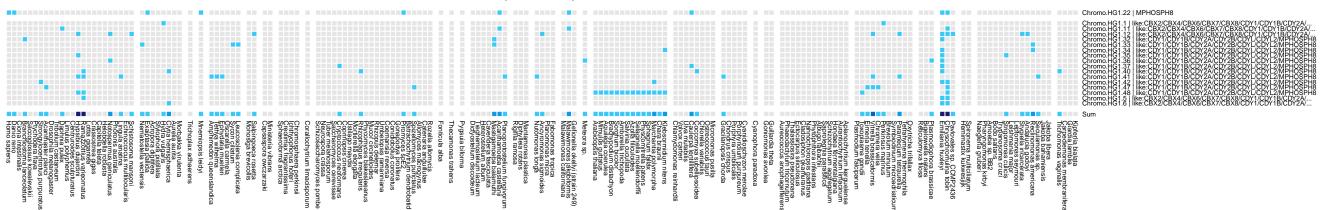
Bromodomain.HG8.0, ATAD2/ATAD2B (0 similar OGs)

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	-											-																							•			S	Sum				
Céntruroides sculpturatus Limulus polyphemus Daphna pules Tribolium castaneum	Capitella teleta Crassostrea gigas Lotta gigantes Ramazzottus varieornatus Hypsiblus dulardini	cytisovsoma mansym Echnococcus mulliocularis Lingula anatina Phoronis australis Phoronis australis Notospermus geniculatus Helobatela robusta	Sylophora pistilata Acropora digitirera Exaptasia pallida Nematostella vectensis Schietosoma massoni	Inicipipak adinaerens Morbakka yirulenta Aurella aurita Gyfta hemisphaerica Hydra vulgaris	Amphimedon queensiandica Mnemiopsis leidyi Trichonlay adhaarang	Leucosolenia complicata Sycon ciliatum Goscarella carmela Ephydata muellen Jethyd wilhelma	Capsaspora owczarzaki Salpingoeca rosetta Monosiga brevicollis	Chthyophonus hoferi	Corallochytrium limacisporum Chromosphaera perkinsii	Cyplinopsis cilietes Cyplococcus neoformans Saccharomyces cerevisiae Tuber melanosporum Neurospora crassa	- Prycomyces piakesieeanus Phizophagus irregularis Mortierella elongata Ustilago maydis Contribonsis cinerea	Coemansia reversa Umbelopsis ramanniana Rhizopus delemar Mucor circinelloides	Spizellomyces puncatius Batrachochytrium dendrobatidis Piromyces spiE2 Gonapodya prolifera Condinabilis compatiis	Forticula diba Rozella allomycis Catenaria anguillulae Allomyces macrodynus	Pygsuia biforma Thecamonas trahens	wiastigalmoepa dalamurii Cavendena fasciculata Heterostelium album Tieghemostelium laciteum Dictyostelium discoideum	Rigilia ramosas Planoprotostelium fungivorum Acanthamoeba castellanii	Ancyromonas sigmoides Nutomonas longa Mantamonas plastica Diphylleia rotans	Malawimonas jäköbiformis Malawimonas califoriiana Fabomonas tropica Planomonas micra	Meteora sp. Gefonella okellyi (strain 249)	Amborella trichopoda Sorghum bicolor Bračhypodium distachyon Aquilegia coerulea Milmulus guttatus Arahidonsis thaliana	Sphagnum fallax Physcomitrella patens Selaginella moellendorffii Azolla filiculoides Salvinia cucullata	Chlamydomonas reinhardtii Chlebsomidium nitens Chara braunii Marchantia polymorpha	Chireucous kain Chirella variabilis Coccomyxa subellipsoidea Caulerpa lentillifera Ulva mutabilis Volvox carteri	Porphyra umblikalis Chondrus crispus Gracilariopsis chorda Micromonas pusilia	Cyanophora paradoxa Cyanidioschyzon merolae Porphyridium purpureum	Aureococcus anophagefferens Guillardia theta Goniomonas avonlea	Phytöpthrora infestans Namochloropsis gaditans Cladosiphon okamuranus Edocar pus silculosus Thalassiorat pseudonana Phaeodactvum tricornuum	Aplanochytrum kerguelense Aurantochytrum limacinum Hondaea termentalgiana Schizochytrum agdregatum Saproleghia parastica	vitrella brassicatormis Eimeria tenella Toxoplasma gondii Plasmodium falciparum	Tefrahymena theimophila Paramecium tersurelia Symbiodinium microadriaticum Beyolum minutusadriaticum Perkinsus marinus Chomera veila	Plasmodiophora brassicae Bigelowiella natans Reticulomyxa filosa Ovuricha trifellav	Pavlovales sp. CCMP2436 Chrysochromulina tobin Emiliania huxleyi	Pnaryngomonas kirbyl Naegleria gruberi Spironema pruhticiliatum	Strigomonas cilicis Typanosoma cruzi Bodo saltans Amoeba sp. BB2	Reclinomonas ámericana Andalucia godovi Svyglella inčarcerata Leptomonas seymouri Leistomania major	Jakoba libera Jakoba bahamiensis Seculamonas sp.	Kipferlia bialata Giardia lambila Carpediemonas membranifera Tichomonas vadinalis					

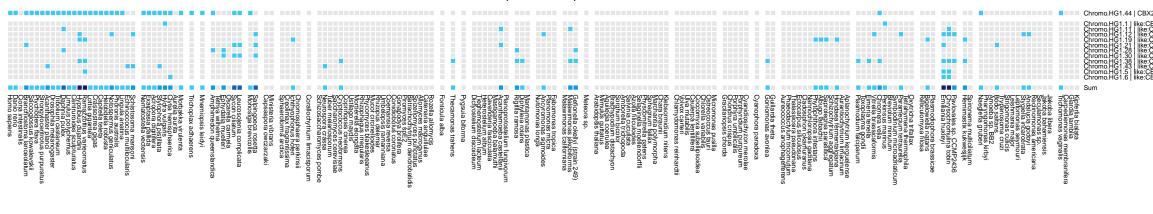
Chromo.HG1.0, SUV39H1/SUV39H2 (0 similar OGs)

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				Sum
Aurelia purita p	City monsphaeria perkinsii (citymyphorus toferinsi (ci	Asambarnosba casaidia, will Mastigarnosba balantini Cavenden lascoulata Telegosistiumi discoulata Telegosistiumi discoulata Dedyosistiumi discoulatum Doctyosistiumi discoulatum Doctyosistiumi discoulatum Doctyosistiumi discoulatum Doctyosistiumi discoulatum Doctyosistiumi discoulatum Doctyosistiumi discoulatum Doctyosistiumi discoulatum Doctyosistiumi discoulatumi Doctyosistiumi discoulatumi Doctyosistiumi discoulatumi Doctyosistiumi discoulatumi Doctyosistiumi Doctyosist	Cyanophora paradoxa Cyanidiseshyzon merolae Bopphyria umiplicalis Bopphyria umiplicalis Gradiariosis crispia Gradiariosis Gradiari	kylledrija bialata Gardia, lambila Gardia, lam

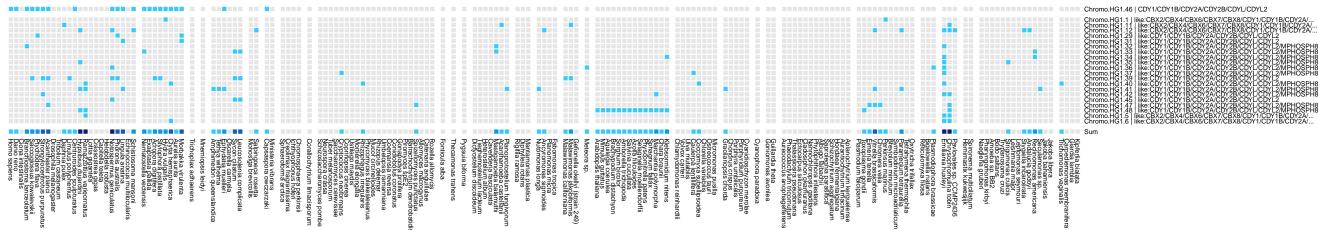
Chromo.HG1.22, MPHOSPH8 (16 similar OGs)



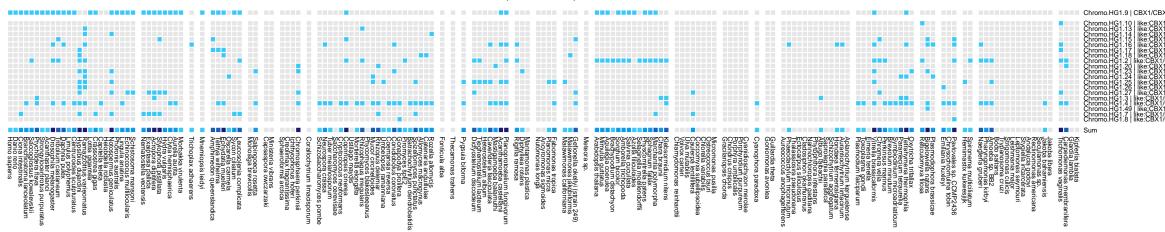
Chromo.HG1.44, CBX2/CBX4/CBX6/CBX7/CBX8 (11 similar OGs)



Chromo.HG1.46, CDY1/CDY1B/CDY2A/CDY2B/CDYL/CDYL2 (20 similar OGs)



Chromo.HG1.9, CBX1/CBX3/CBX5 (19 similar OGs)



Chromo.HG4.1, CHD1/CHD2 (1 similar OGs)

Chromo.HG4.1 CHD1/CHD2 Chromo.HG4.0 like:AC006064.0	6/CHD1/CHD2/CHD3/CHD4/CHD5
Chromo.HG4.0 like:ACC006664. Sum Kipferlia bialata Gardia lambilata Jambilata Jambilata Gardia lambilata Jambilata Jambilata Jambilata Gardia lambilata Jambilata Jambilat	6(CHD1/CHD2/CHD3/CHD4/CHD5
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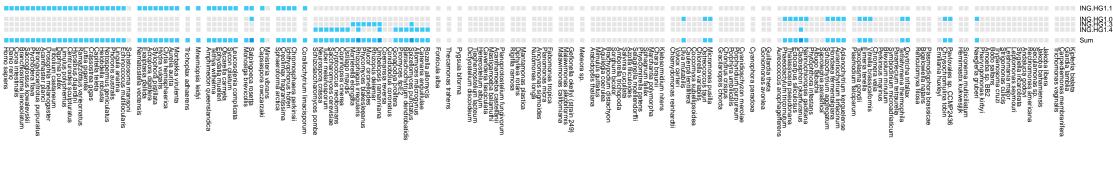
Chromo.HG4.2, AC006064.6/CHD3/CHD4/CHD5 (1 similar OGs)

Chromo.HG4.2 | AC006064.6/CHD3/CHD4/CHD5

Chromo.HG5.6, CHD6/CHD7/CHD8/CHD9 (7 similar OGs)

			Chromo.HG6.0 like:CH66/CH07/CH08/CH09 Chromo.HG6.1 like:CH06/CH07/CH08/CH09 Chromo.HG6.1 like:CH06/CH07/CH08/CH09 Chromo.HG6.1 like:CH06/CH07/CH08/CH09 Chromo.HG6.4 like:CH06/CH07/CH08/CH09 Chromo.HG6.7 like:CH06/CH07/CH08/CH09 Chromo.HG6.7 like:CH06/CH07/CH08/CH09
Capsaspora owczarzki Sabingocez respirate Monosiga brevicolis Leucospienia complicata Okeandia armelieri Ebhydatia muelleri Ebhydatia muelleri Tethyla wilhelma Amphimedon queensiandca Mnemopsis leidy Trichoplax adhaerens Mopakka virulenta Amphimedon queensiandca Mnemopsis leidy Trichoplax adhaerens Mopakka virulenta Amphimedon queensiandca Mnemopsis leidy Trichoplax adhaerens Mopakka virulenta Amphimedon queensiandca Mopakka virulenta Amphimedon queensiandca Mopakka virulenta Amphimedon Trichoplax adhaeria Trichoplax adhaeria Trichoplax adhaeria Soviophoral pusiliata Aurelia aurelia Soviophoral pusiliata Dannia pulex Dannia pulex Soviophoral pusiliata Soviophoral pusiliata Dannia pulex Soviophoral pusiliata Soviophoral pusiliata Soviophoral pusiliata Soviophoral pusiliata Dannia pulex Soviophoral pusiliata Soviophoral pusiliata Soviophoral pusiliata Dannia mesimaliata Soviophoral pusiliata	Metera sp. Geffonella okellyi, terain 249) Malemonas teallorniana Fabornoras ropica Fabornoras sistema Fabornoras India Fabornoras Fonticula album Pygsula biforma India Fabornoras India Fabornoras Fonticula album Pygsula biforma Pygsula biforma Pygsula biforma Ropyces India Fabornoras Fonticula album Pygsula biforma Pygs	Reliculomyxa filosa O xyrichta triella; Grannecum teramophila Paramecum teramophila Paramecum teramophila Paramecum teramophila Paramecum teramoria Chromera veila Symbolodhum microadraticum Berkisum manulum Eliparia tenella; Symbolodhum microadramis Elimeria tenella; Symbolodhum microadramis Elimeria tenella; Symbolodhum microadramis Elimeria tenella; Symbolodhum microadramis Elimeria tenella; Harameta microadramis Elimeria tenella; Saprolegnia parasifica Elimeria tenella; Elimeria tenella	Kypleriia bialata Giardia lambila Giardia lambila Giardia lambila Carpediemonas membranifera Trichomonas vaginasis Jakoba lahamiensis Reculamonas americana Andelmomas americana Andelmomas americana Andelmomas seymouri Leftomonas seymouri Spielmania raiga Tripanosoma cruzi Spielmania raiga Bodo saltans Bodo saltans Bodo saltans Kuthy Nasigria gudesi Hemmania kuthy Nasigria gudesi Tripanosoma cruzi Bodo saltans Bodo sal

ING.HG1.1, ING3 (3 similar OGs)



ING.HG1.2, ING1/ING2/ING4/ING5 (3 similar OGs)

																									ING.HG1.2 II	NG1/ING2/ING4	4/ING5
																									NG.HG1.0 NG.HG1.3 NG.HG1.4	ke: NG1/ING2/ ke: NG1/ING2/ ke: NG1/ING2/	NG3/ING4/II NG3/ING4/II NG3/ING4/II
																									Sum		
Pribronis australis Notospermus geniculatus electrospermus geniculatus electrospermus geniculatus electrospermus geniculatus electrospermus geniculatus electrospermus guardin electro	Morbakka virulenta Aurelia aurita Cyrlia hemisphaerica Hydra vulgaris Hydra vulgaris Hydrophoral pitilia Aurophasia palilia Mematostelia vectensis Schistosoman anansoni Schistosoman anansoni Schistosoman anansoni	Sycon diatum Oscarella campa Cerella campa Entrydeut in entrellen Entrydeut in entrellen Entrydeut in entrellen Amphimiedon queensiandica Mnemiopsis leidyi Trichoplax adhaerens	Minsteria vibrans Capsaspora owczarzaki Salpingoeca rosetta Monostiga brevicollis Leucosolenia complicata	Corallochyfrium limacisporum Chromosphaera perkinsi Ichtwophous hoteri Oreolimax fragrantissima Sphaerotorma arctica	Mortiderallà ciongatia Ustilago maydis Ustilago maydis Coprificopsis cinerea Coprificopsi cinerea Coprificopsis cinerea Coprificopsis cinerea Coprificopsi	Gonafodiva froitera Gonafodiva conoratus Controlation successiva Commansia reversa Umbelopasis ramanniana Mucor cricinellodes Mucor cricinellodes Phycomyces blakesleanus	Rozella allomycis Catella allomycis Catella allomycis Catella and gulliulae Allomycas macrogynus Spizellomycas punicatus Batrachochyrium dendrobatidis Piromycas Spize	Pygsuia biforma Thecamonas trahens Fonticula alba	Planoptrotsstellum fungivorum Acantharmoeba castellanii Acantharmoeba balamuthi Caver doena fascoulata Heterostellum album Dictyostellum datceum Dictyostellum datceum	Ancyromonas sigmoides Nutromonas longa Mantamonas plastica Diphylleia rotans Rigifila ramosa	Geffonella okellyi (strain 249) Malawimonas iakobitormis Malawimonas californiana Fabomonas tropica Planomonas micra Anyumonas sigmoides	Pacifypodium distachyon Aguilega coerulea Mimulus guttaus Arabidopsis thaliana Meteora sp.	Marchania polymorpha Sphagnum fallas Sphagnum fallas Sphagnum fallas Sphagnum fallas Sphagnum fallas Selajue la moellendorffii Azolla fillasoldes Salvinia cucullata Santhura cucullata Santhura hichopoda	Gaulerpä lentillifera Uhva mutabilis Volvox carteri Chlamydomonas reinhardtii Klebsormdium nitens	Porphyra umbilicalis Chondrus crispus Gracilariopsis chorda Micromoras pusilla Ostreococcus sulla Chiorella variabilis Chiorella variabilis	Gonilarioria rreta Gonilomonas avonlea Cyanophora paradoxa Cyanidioschyzon merolae Porphyridium purpureum	Naimotrijoropsis gaditana Cladosphon okarmuranus Edocarpus sliculosus Thalassiosira pseudonana Phaeodactylum ririgorintum Aurie ococcus anophagerierens Cuillardia thora	Aplanochytrium kerguelense Auranitochytrium limacinum Hondaea fermentagiana Schizochytrum aggregatum Saprolegnia parašitica Albugo läibachii	gynbodindir inicioalidadii Gynbiasus raginus Celtifisus raginus Celtifisus raginus Vittella gassila formis Eineila teesila Toxoplasma qoqdii Plasmodium faloparum	iesinculph rota brassicae Bigelowella natans Reticulomyxa filosa Qxytricha trifallax Tetrahymena thermophila Paramecjum tetraurelia	Pavlovales sp. CCMP2436 Chrysochromulina tobin Emiliania huxleyi	Bódo saitans Amoeba sp. BBZ Pharyngorhonas kirbyi Naegdefa gruberi Spironema multicillatum Hemimastix kukwesijik	iskoba berimiensis Secularmonas su Secularmonas sumericana Andalucia godovi Sygelia inčarcerata Isgorimonas sepimouri Sitjomonas calilos Sitjomonas calilos	Kipferlia bialata Giardia lamblia Carpediemonas membranifera Tirchomonas vaginalis			

MBT.HG1.1, PHF20L1 (2 similar OGs)

				•																								N	MBT.HG1.1 PHF20L1	
																									•			N N	MBT.HG1.0 like:PHF20 MBT.HG1.3 like:PHF20	0L1 0L1
				• • • •					•																				Sum	
Accorditation injunctivasion in Strongyloceritorius purpuratus Pryvindoraet argundoren injunctivasion Sarcorgossus kowatevskii Garric Incasoria lanosolatum Garric Informatis Homo sapiens	regiodale il robusia Crissovire a glassi	Schistosoma mansoni Schistosoma mansoni Echnoccocus multilocularis Lingula anatina Phoronis australis Notospermus geniculatus	Morbakka virulenta Aureila artie Clyta hemisphaerica Hydra wulgatisillara Geyopond pistillara Karobasa dojitida Nandanstefa waransis	Tehrya wilheima Amphimedon queenslandica Mnemiopsis leidyi Trichoplax adhaerens	Salpingueta roseilla Nonosiga brevoollis Leucosolenia complicata Socon ciliatum Oscanella carmola	Cyeumax naguanissana Sphaerotoma da racica Ministeria vibrans Capsaspora owczarzaki	Corallochytrum Imacisporum Chromosphaera perkinsii Chromosphaera perkinsii Chromosphaera perkinsii	Usilago maydis acu Usilago maydis acu Coprinopsis cinerea Cryptococcus neolomians Saccharomyces cerevisiae Tuber melanosporum Neurospora grassa Schizosarcharomyces nombe	Cemansia reversa Umbelopsis ramanniana Ahizopus delemar Mucor circinelloides Phycomycas plakesleeanus Phycomycas plakesleeanus Micapiagus irregularis	Kozella Jinomyojs Calenaria angiuliulae Allomyose macrogynus Spizellomyose punciatus Spizellomyose punciatus Barrachodyntum dendrobatidis Promyose Spize Fromyose Spize Condobolis coronatus Condobolis Coronatus	Hygsula biorma Thecamonas trahens Fonticula alba Posella libraria	Acan Procession and P	Mantamonas plastica Diphylleia roitans Rigifila ramosa Planoporofostelium functionum	Fabomonas tropica Fabomonas tropica Ancyromonas sigmoides Nutrimonas ionga	Meteora sp. Gefionella okellyi (strain 249) Gelfornella okellyi (strain 249) Malawimonas iakopilormis Malawimonas iakopilormis Malawimonas iakopilormis	Salvinia Cuculilata Amborella trichopoda Sorghum bicolor Brachypodium distachyon Aquilegia coerulea Minulus guttatus Arabidopsis thallana	Kebsormalium nitens Chara braunii Marchantia polymorpha Shagnum fallax Shagnella moellenooffii Selagnella moellenooffii Azolfa Illiculoides	Cstreoboccus iajuri Chiorella variabilis Coccomyva subelipsoidea Caulerpa lentillilera Uka mutabilis Whox carter is Chiamydomonas reinhardtii	Quanidisethyzon merolae Porphyridum purpureum Porphyra umbilicalis Choridus crispus Gracilanopsis choroda Micromonas pusilla	Guillardia theta Goniomonas avonlea Cyanophora paradoxa	hymydrinoria iliesailana Cladosiphon okamuranus Eciocarpus siliculosus Thalassiosira pseudonana Phaeodactylum intormutum Aureococcus anophagefierens	Aplanochyfrium kerguelense Aurantodyfrium limacnum Hondaea Hernentaligiana Schizochyfrium aggregatum Saprolegnia paraisilira Budyo libadnijasilira	- Paramecjum tertaureia Symbolomium microadriaticum Berkinsum mahuum Berkinsum mahuum Berkinsum mahuu Dengra velia Virtelid brassicatormis Limetra tenella Chxoplasma gondii Chxoplasma gondii	rlasinoundriod orasicae Bigelowiella nafans Reticulomyka filosa Oxytricha trifallax Ietrahymena thermophila	reminastik kukwesjik Pavlovales sp. (CCMP2436 Chysochromuina tobin Emiliania huxleyi	Bodo saitans Amoeba sp. BB2 Amoeba sp. BB2 Amoeba sp. BB2 Naegleria gruben Spironema multiciliatum	Jakoba bahamiensis Seculamonas si Redimomnas americana Andaluzia godovi Sygelia in Karcetrata Sygelia in Karcetrata Jashmonda neymouri Jashmonda neymouri Jashmonda cullicis	Kipferlia bialata Glarda, lambila Cappediemonas membranifera Trichomonas vaginalis Jakoba libera		

MBT.HG1.1 | PHF20L1

MBT.HG1.2, AL031681.3/L3MBTL1/L3MBTL2/L3MBTL3/L3MBTL4/MBTD1/SCMH1/SCML2/SFMBT1/SFMBT2 (2 similar OGs)

MRG.HG1.1, MORF4L1/MORF4L2/MSL3

(1 similar OGs)

							•••••		•	
schistosoma manspori Echinocoous miliocularis Ingula anatina Ingula anatina Ingul	Mnemiopsis leidyi Trichoplax adhaerens Morbakka yirulenta Aurelia aurita Aurelia aurita Highaerica Sykophoda bisililata Acropora digitilera Exalptasa pallida Nematoselia vecelensis	Sabingocca rosetta Mohosiga breviolis Leucoscienia complicata Sycan ciliatum Oscarelia carmela Ephydatia, muelleri Telma withelima Amplimedon queenslandica	chromosynaeira perinisii ichtwyophonus hojeri opeolimax fragrantissima ophaerotorina arctica ophaerotorina arctica ophaerotorina arctica ophaerotorina arctica ophaerotorina ophaerotorina opeolisii ophaerotorina opeolisii ophaerotorina opeolisii ophaerotorina opeolisii ophaerotorina opeolisii ophaerotorina ophaerotorina ophaerotorina opeolisii ophaerotorina o	hizkophiajus irregularis Wonteeli alengalaris Wonteeli alengalaris Wonteeli alengalaris Usallago maydistee Cyphisobodus heeformans Sacchatormyces cerevisae Tuber melanosportus Refundand crassa'as Schuzostoda urassa'as Schuzostoda urassa'as Schuzostoda urassa'as Cocallochyrium limadisporum	Rozella allomycis Catenaria anguiliulae Allomyces macrogynus Spzelomyces puricanus Spzelomyces puricanus Bonaracous Suturi dendobatidis Gonaracous Suturi dendobatidis Conariana reversa. Conformatis reversa. Umbelopsis ramanniana Umbelopsis ramanniana	Pygsuia biforma Thecamonas trahens Fontious alba	Planoptostelium fungivorum Acanthamoeba sasellani Mastigamoeba balamuthi Caverderia tascioualta Heterostelium album Tieghenostelium album Didyostelium discoldeum	Mantamonas plastica Diphylleia rotans Rigifila ramosa	Fabomonas tropica Planomonas micra Ancyromonas sigmoides Nutomonas longa	Gefionella okellyi (strain 249) Malawimonas jakobiformis Malawimonas californiana

MRG.HG1.1 | MORF4L1/MORF4L2/MSL3

MRG.HG1.0 | iike:MORF4L1/MORF4L2/MSL3

MICC. TO 1.0 | III

PHD.HG1.1, CXXC1/DIDO1/PHF3 (0 similar OGs)

PHD.HG1.1 | CXXC1/DID01/PHF3

Daphnia pulex Tribolium castaneum Drosonhila melanogaster	Schistosama mansoni Echnococcus multiocularis Ingula anatima Horonis australis Polonis australis Augusta augusta Augusta augusta Schizularia augus	Mortaska virulenta Aurelia aurita Cytyla hemischaerica Cytyla hemischaerica Sylophovida išilila Sylophovida išilila Sylophovida išilila Sylophovida išilila Kartopora digitiliena Kartopora digitiliena Kartopora digitiliena	Mnemiopsis leidyi Trichoplax adhaerens	JCOSOJENIA C JCON CIIIATUM Carella carm Carella carm Lydatia mue hya wilhelm Iphimedon q	ngoeca rosetta osiga brevicollis	Chromosphaera perkinsii (chriyyophorus hoferi (chriyyophorus hoferi (chriyophorus hoferi (chrissima Sphaerioforma arctica Sphaerioforma arctica (chrissiona vibrans (christia) v	Corallochytrium limacisporum	Usiliago maydis Usiliago maydis Coprinopsis cinerea Cryptococcus neolomians Saccharomyces cerevisae Liber melanosporum Neurosporia crassa	mar oides lakesle rregula	Rozella illomycis Cateriaria and illuliuliule Allomyces macrogynus Spizellomyces punicialus Barrachochyritium dendrobatidis	Thecamonas trahens Fonticula alba	Planopotostelium fungivorum Acanthamoeba castelianii Mastigamoeba talamutini Cavenderin fasocularia Heterostelium album Irigamostelium discondeum Dictyostelium discondeum	Mantamonas plastica Diphylleia rotans Rigifila ramosa	Fabomonas tropica Planomonas micra Ancyromonas sigmoides Nutomonas longa	wieleora sp. Gefionella okellyi (strain 249) Malawimonas jakobiformis Malawimonas californiana	bidopsis tha	vinia ruiculoides vinia cucullata borella trichopoda richum bicolor chypodium distach uliegia coerulea	Kebsomidium nitens Chara brauni Marchania polymorpha Sphagnum fallas Sphagnum fallas Sphagnum fallas patens Selagngia la modellendorffii	treococcus treococcus to lorella variat ccomyxa sut ulerpa lentilli a mutabilis vox carteri vox carteri	Cyanidoscnyzon meroiae Porphyridum purpureum Porphyra umbilicalis Chondrus crispus Gracilariopsis chorda	Gonilari nera Goniomonas avonlea Cyanophora paradoxa	Ciadospinon (karinularius Edocarpus siliculosus Tralaissisosira pseudonana Phaeodoactylum (ricornutum Aureococcus anophagefferens	Schrizorfyfrium aggregarum Saprolegnia papastica Albugo laibachii Phytophthora infestans Namocchioropsis gaditana	Apianochytrium kergueiense Aurantiochytrium limacinum Hondaea fermentalgiana

PHD.HG1.3, BPTF (2 similar OGs)

			PHD.HG1.3 BPTF PHD.HG1.0 like:BPTF PHD.HG1.2 like:BPTF Sum
Leucosogienia complicata Coccale immelia Eccale immelia Amphimedon queensandica Eccale immelia Eccale	Meteora sp. Geffonella okelly (strain 244) Majawimonas ideptiorinana Faborinoras tropica Hadromana Faborinoras tropica Hadromas tropica Hadro	Plashodium falciparum Aplanophritimi rajquelerse Auamitoryhtitimi rajquelerse Auamitoryhtitimi rajquelerse Auamitoryhtitimi rajquelerse Auamitoryhtitimi rajquelerse Auamitoryhtitimi rajquelerse Shizochyritimi agglegatum Sapolipini agglegatum Aureococcus anophragelerens Guillardia hieta dumpitusium Aureococcus sumini Aureococcus sumini Chorelia variabilis Chorelia vari	Koberija bialata (Gardai Jambila Gardai Gardai Jambila Gardai Gardai Jambila Gardai Gar

PHD.HG1.4, FBXL19/KDM2A/KDM2B/KDM7A/PHF2/PHF8 (1 similar OGs)

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			•														
		•															
Schlistosama mangsoni Echinococcus multiocularis Echinococcus multiocularis Hodonis australis Volceper mus geniculatus Heichiella robusta Capitella robusta	bakka viru elia aurita la hemispi ra vulgaris ophora pis oppora digit ptasia pal patostella	Mnemiopsis leidyi Trichoplax adhaerens	Leucosojenia complicata Sycon ciliatum Osanella carmela Ephydatia muelleri Tethiqa willipelma Amphimedon queenslandica	Salpingoeca rosetta Monosiga brevicollis	Ministeria vibrans Capsaspora owczarzaki	sphaera perkinsii honus hoteri ax fragrantissima forma arctica	orallochytrium limacis	Copinidosis cinerea Copinidosis cinerea Corplicococus neoformans Saccharomyces cerevisiae Tuber melanosporum Neurospora crassa combo Schizoscocharomyces nombo Schizoscocharomyces nombo	Knizopus qelemar Muor Cirichelloides Phycomyces blakesleeanus Rhizophagus rregularis Mortierella elongata	Gonapodya prolifera Conidiobólus coronatus Coemansia reversa Umbelopsis ramanniana	Rozella allomycis Cartenaria anguillulae Cartenaria anguillulae Allomyces materogynus Spizellomyces punctatus Batrachochytrium dendrobatidis Piromyces Spizel	ticula alba	Thecamonas trahens	Planoptotstellum fungivorum Acanthamoeba castellarii Mastigamoeba balamuthi Cave nderla fascioulata Heterostellum album Tieghemostellum ladeum Didyostellum discodeum	Mantamonas plastica Diphylleia rotans Rigifila ramosa	Fabomonas tropica Planomonas micra Ancyromonas sigmoides Nutómonas longa	Gefionella okellyi (strain 249) Malawimonas iakobiformis Malawimonas californiana

PHD.HG1.4 | FBXL19/KDM2A/KDM2B/KDM7A/PHF2/PHF8 PHD.HG1.5 | like:FBXL19/KDM2A/KDM2B/KDM7A/PHF2/PHF8

PHD.HG10.2, TAF3 (9 similar OGs)

			BIB.HG10.4 like: IA53 P.B. HG10.5 like: IA53 P.B. HG10.8 like: IA53 P.B. HG10.8 like: IA53 P.B. HG10.8 like: IA53
Seucisignia Compinata Securial a campana Gerapila campana Entra wilhelma Amphimedon queenslandica Mnemiopsis leidyi Trichoplax adhaerens Morbakka yirulenia Aurila arita Hydra remissiphaerica Hydra remissiphaerica Sylophora digriffera Acquora digriffera Acquora digriffera Acquora digriffera Acquora digriffera Acquora digriffera Acquora digriffera Septialistica digriffera Acquora digriffera Acquora digriffera Sprindosa a warisa Acquora digriffera Acquora digriffera A	Rozelia allomycis cateriata angliuliae cateriata	Micromonas pusilia Ostreococcus isuli Chiorella variabilis Chiorella Chiorell Chiorella Chiorella Chiorella Chiorella Chiorella Chiorella Chi	Kipletila balata Gardia lambila Gard

PHD.HG11.2, PYGO1/PYGO2 (3 similar OGs)

		B1B-H611-9
Sajassiski a wuwiczarzaki Sajaripopera rosetta Morosiga brevicolitis Leucosojenia complicata Secon Gilatum Secon Gilatum Amphimedon queenslandica Selviorboroi apitituda Aprincia anattina Selviorboroi apitituda Nernadostala veciensis Neroporoi apitituda Nernadostala veciensis Neroporoi apitituda	Emeria tenella dinella tenella dinella tenella dinella tenella dinella tenella dinella tenella dinella tenenda di accomina di populari di proporti di dispositi di proporti di	

PHD.HG12.0, INTS12 (0 similar OGs)

PHD.HG12.0 | INTS12

Coliscosula Indisorii Echinococcus multilocularis Lingula, anatina Phoronis australis Notscormus Geniculatus	Sylvia viugalis Sylophoria pisilliata Acropora digililera Exalplasia Aalilda Memalostella vectensis	Morbakka virulenta Aurelia aurita Ciytia hemisphaerica	Mnemiopsis leidyi Trichoplax adhaerens	Ecucavieria compinada Oscariela carmela Edifyada amuella Edifya wilhelma Edifya wilhelma queenslandica	Salpingoeca rosetta Monosiga brevicollis	Ministeria vibrans Capsaspora owczarzaki	Chromosphaera perkinsii Ichthyophonus hoferi Creolimax fragrantissima Sphaeroforma arctica	Corallochytrium limacisporum	Coprinopsis cinerea Cryptococcus neoformans Saccharomyces cerevisiae Tuber melañosporum Neurospora crassa	wucor circinelloides Phycomyces blakesleeanus Ahizophagus irregularis Mortierella elongatia Ustilago maydis	ouriajousya promieria Condiobólius coronatus Coemansia reversa Umbelopsis ramanniana Rhizopuis delemar	Catenaria and ullitule Allomyosa madrooynus Spizellomyosa punicatus Batrachochytin dendobatidis Batrachochytin dendobatidis	Fonticula alba Rozella allomycis	Pygsuia biforma Thecamonas trahens	Planoprotostellum tungvyrum Acanthamoeba balamuthi Wastigamoeba balamuthi Cavendenia fasocculata Heterostellum abrum Tieghemostellum disceum Dictyostellum discoideum	Mantamonas plastica Diphylleia rotans Rigifla ramosa	Fabomonas tropica Planomonas micra Ancyromonas sigmoides Nutomonas longa	Gefionella okellyi (strain 249) Walawimonas jakobilormis Malawimonas californiana	Aquilégia coerulea Mimulus guttatus Arabidopsis thaliana Meteora so.	Seldgirella incellencomii Azolla fliculoides Salvinia cucullata Amborella frichopoda Orghum bicolor Begiveno dim distantivon	Klebsormöllum intens Chara braunii Marchantia polymorpha Shagpum fallax Physcomitrella paetas	Ulva mutabilis Volvox carteri Chlamydomonas reinhardtii	Micromonas pusilla Osteococcus tauri Chiorella varlabilis Coccomyxa subelipsoidea Cauleroa lentilitera	Vandoschyzon merolae Porphyridum purpureum Porphyra umbilicalis Chondrus crispus Gracilariopsis chorda	Gorilomonas avonlea Cyanophora paradoxa	,	~~~~	Aplanochyrium kerguelense Aurantiochyrium limacinum Hondaea fermentalgiana Schizochyrium aggregatum Sabrizochyrium aggregatum	 etranyineria mermopinia Paranecium teraurela Symbodinium microadhaticum Symbodinium microadhaticum Gerkinsus majinus Gerkinsus majinus	afa as a	Emiliania huxleyi Plasmodiophora brassicae	3 8 €

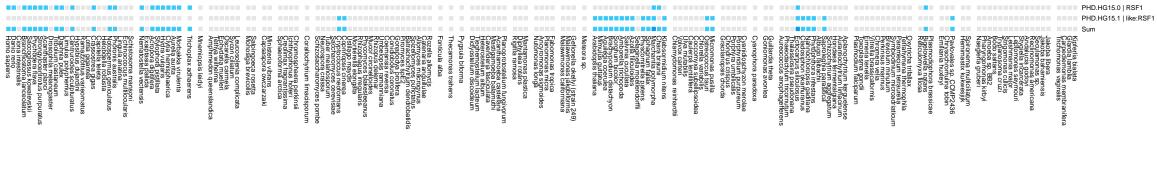
PHD.HG12.1, MTF2/PHF1/PHF19 (0 similar OGs)

PHD.HG12.1 | MTF2/PHF1/PHF19

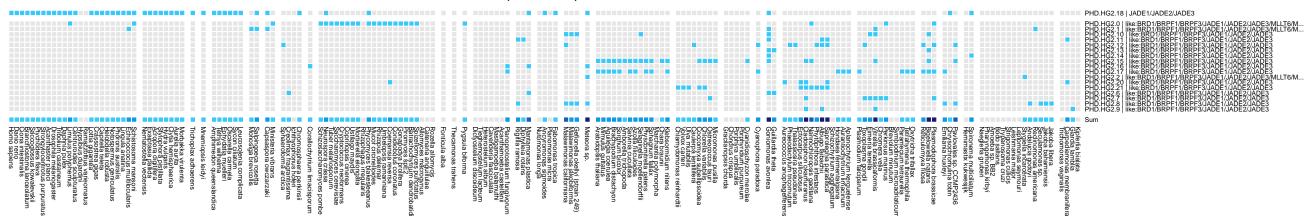
PHD.HG14.1, UHRF1/UHRF2 (1 similar OGs)

			PHD.HG14.1 UHRF1/UHRF2 PHD.HG14.0 like:UHRF1/UHRF2
IOOMUTA S H SAUTOAMS WHITSTOUDITALINO SHES PHOOF	TESOILO I H IL KOKWUTQOODKSTKSSOOOMESW O OGOW SO WS	««IWW«UISOIII—U» () () () () () () () () () () () () ()	Sum ZDACCDDWTSO, ZUD TON TUK OSTONES SIN
eucosiginia combinatory concellenta opportunitata yocon ciliatam pala yocon ciliatam p	asingamosa balanuthi fasilgamosa balanuthi f	planodyritum keryebarum planodyritum planod	igierija bialjata prepira prepira prepira bialjata supedemovas membranitera troomovas vaginātis saloba batamiens is eculiomovas vaginātis saloba batamiens is eculiomovas prepira prep

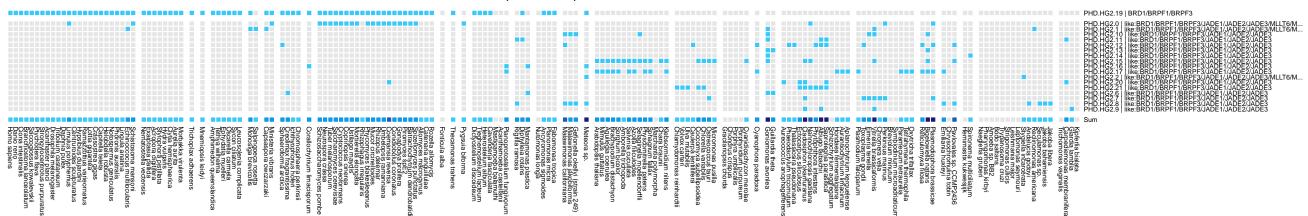
PHD.HG15.0, RSF1 (1 similar OGs)



PHD.HG2.18, JADE1/JADE2/JADE3 (17 similar OGs)



PHD.HG2.19, BRD1/BRPF1/BRPF3 (17 similar OGs)



PHD.HG2.4, MLLT6/MLLT10 (4 similar OGs)

	 		PHD.HG2.0 like:BRD1/BRPF1/BRPF3/JADE1/JADE2/JADE3/MLLT6/M PHD.HG2.1 like:BRD1/BRPF1/BRPF3/JADE1/JADE2/JADE3/MLLT6/M PHD.HG2.2 like:BRD1/BRPF1/BRPF3/JADE1/JADE2/JADE3/MLLT6/M PHD.HG2.3 like:MLLT6/MLLT0/PHF14
Cerbinoprikrinas richem Cerbinoprikrinas richem Cerbinas ricepantiss Sphaenolorma arctinas Ministeria vibrans. Capsaspora owczarz Sphiji goesa receita Monosiga or ericollis Leucosolenia completa popularia muelleria popularia muelleria popularia muelleria proporti del vibrando del proporti del vibrando del proporti del vibrando d	Meteora sp. Meteora sp. Gefronella okallyi (str.) Gefronella okallyi (str.) Malawimonas calidratic Fabomonas tropica Paramonas sylmoia Nutrononas longa Ancyromonas sylmoia Nutrononas longa Mantamonas plastica Dipvillea rotavis Panapprotostelium fur Masulamonas ladiscular Heterostelium album Masulamonas trahens Fonticula alba Thecamonas trahens Fonticula alba Rozella a limyvojs Rozella a limyvojs Brozella a limyvojs Forticula alba Rozella a limyvojs Rozella a limyvojs Brozella a limyvojs Forticula alba Rozella a limyvojs Rozella a limyvojs Forticula alba Rozella a limyvojs Rozella a limyvo	Emiliania huxia ya Chrysoch romiulina ya Chrysoch romiulina in huxia ya Chrysoch romiulina ya Chrysoch romiulina ya Chrysoch ya Micromonas a Worleia ya Chrysoch ya Micromonas ya Micromonas pusilia ya Chrysoch ya Micromonas pusilia ya Chrysoch ya Micromonas ya Micromon	Superior of the control of the contr
ima aki alandica landica alus alus alus alus alus alus	des	sicae sicae la idriaticum m elense garum g	bbranifera s sana

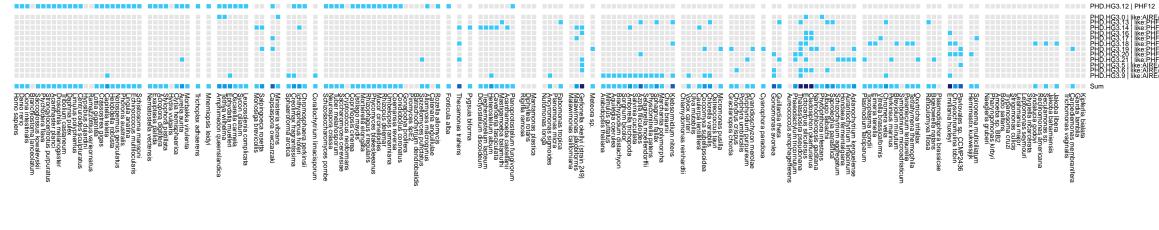
PHD.HG2.5, PHF14 (4 similar OGs)

						•			•											•								PHD.HG2.5 PHF14
																												PHD.HG2.0 like:BRD1/B PHD.HG2.1 like:BRD1/B PHD.HG2.2 like:BRD1/B PHD.HG2.3 like:MLLT6/I
												-																Sum
britorins australis, britorins australis, Nuospermus geniculatus Heloobella poliusta Capitella teleja Cassosirea gigas Cassosirea gigas cutta ogganeta gunta ogganeta Heloobella steleja polius varieomatus Heloobella suutus duladini Hopsibus duladini Hopsibus duladini Schirturoides sculpturatus Limulus polybrenityis	Hydra wildrah, emina Hydra wildrah Sylophonda bistillata Acropora digitifera Exarbasia Palillat Kenatosia wectensis Schistosoma mansoni Schistosoma mansoni Schistosoma mansoni	Mnemiopsis leidyi Trichoplax adhaerens Morbakka virulenta Aurelia aurita	Leucosolenia complicata Svoon ciliatum Svoon ciliatum Oscarella carmela Ephydatia nuelleri Telma wilineima Amphimedon queenslandica	Ministeria vibrans Capsaspora owczarzaki Salpingoeca rosetta Monosiga brevicollis	Chromosphaera perkinsii Ichthyophonus hoferi Creolimax fragrantissima Sphaeroforma arctica	Cryptococus neoformans Saccharomyces cerevisae Iluber melańosporum Neurospora crassa Schizosaccharomyces pombe Corallochytrium limacisporum	Mucor circinelloides Phycomyces blakesleanus Rhizophagus irregularis Mortierella elongata Ustilago maydis Coprinopsis cinerea	Pirmyces spE2 Gonapodya prolifera Conidiobolus coronatus Coemansia reversa Umbelopsis ramanniana Rhizopus delemar	Rozella allomycis Catenaria anguillulae Allomyces macrogynus Spizellomyces prictatus Battachochutin dendroatidis	Pygsula bitorma Thecamonas trahens Fonticula alba	Acanthamoeba castellanii Mastigamoeba balamuthi Cavenderia fasciculata Heterostellum album Tieghemostellum lacdeum Dictyostellum discoideum	Mantamonas plastica Diphylleia rotans Rigifia ramosa Planoprotostelium fungivorum	Fabomonas tropica Planomonas micra Ancyromonas sigmoides Nutomonas longa	Meteora sp. Gefionella okellyi (strain 249) Malawimonas iakobiformis Malawimonas californiana	Saynina cuculiata Amborella fitriopoda Sorghum bicolor Bracyppodium distachyon Aguillégia coerulea Mimulus guttatus Arabidopsis thaliana	Klebsornidium nitens Chara brauni Marchantia polymorpha Schagnum falla Selagnia patens Selagnia impeliendorfii Azolia ilirculoides	Micromonas pusilia Ostrococcus fauli Chlorella variabilis Chlorella variabilisoidea Caudenny va tillusella Caudenny va tillusella Chlore or Carteri Chlorox Carteri Chlamydomonas reinhardtii	Cyanidiosoftyzon merolae Porphyridin purpureum Porphyra umbilicalis Chondrus crispus Gracilariopsis chorda	Guillardia theta Goniomonas avonlea Cyanophora paradoxa	Nahnochloropsis gaditana Cladosiphon okamuranus Ectocarpus siliculosus Thalassiosira pseudonana Phaeodactylum irticornutum Aureococcus anophagefferens	Aplanochytrium kerguelense Aurantochytrium imacinum Hondaea fermentalgiana Schizochytrium aggregatum Saprolegnia paraštica Albugo laibachii	lediahymena thermophila Palamegium tetraurella Symbodinum microadriaticum Beyolum minutum Beyolum minutum Symbolum minutum Pekinsus mainus Cylronjeta veila Cylronjeta veila Cylronjeta veila Emeria devella ju Emeria devella ju Pashvodum falciparum	Plasmodiophora brassicae Bigelowiella natans Réticulomyxa filosa Oxvtricha trifallax	Paydovales sp. CCMP2436 Chrysochromulina tobin Emiliania huxleyi	Amoeba sp. BB2 Pharyngomonas kirbyi Naegleria gruberi Spironema multiciliatum Hemimastix kultwesiik	Seculiarionas sp. Reclinomonas americana Annalucia godovi Svygiella infarcerata Leptomonas seymouri Leptomonas seymouri Leptomonas culicis Tingononas culicis Tingononas culicis Tingononas culicis Tingononas culicis Tingononas culicis	Appeira variada Glardia lambila Carpediemonas membranifera Trichomonas vaginalis Jakoba libera	

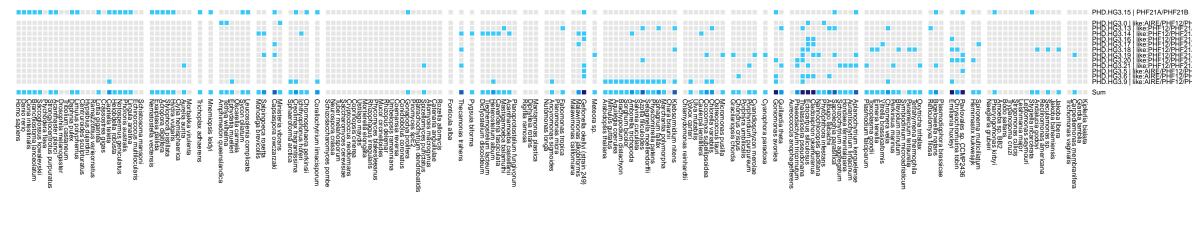
PHD.HG20.0, ASXL1/ASXL2/ASXL3 (0 similar OGs)

PHD.HG20.0 | ASXL1/ASXL2/ASXL3

PHD.HG3.12, PHF12 (12 similar OGs)



PHD.HG3.15, PHF21A/PHF21B (12 similar OGs)



PHD.HG3.4, AC006064.6/CHD3/CHD4/CHD5 (6 similar OGs)

•••			PHB.HG3.10 like: AC006664.6/CH03/CH04/CH05 PHB.HG3.11 like: AC00664.6/CH03/CH04/CH05 PHB.HG3.11 like: AC00664.6/CH03/CH04/CH05 PHB.HG3.31 like: AC00664.6/CH03/CH04/CH05 PHB.HG3.7 like: AC00664.6/CH03/CH04/CH05 PHB.HG3.7 like: AC00664.6/CH03/CH04/CH05
Ministeria vibrans Capasabora ovczarzaki Salpingoesa roseta Mchosiga brevicollis Successi i armela Empivata muelleri Teirhopiax adhaerens Morpakka virulenta Amplimetori queenslandica Mnemiosis leidyi Trichopiax adhaerens Morpakka virulenta Amplimetori queenslandica Amplimetori queenslandica Morpakka virulenta Amplimetori queenslandica Schistoscorna mutiliocularis Chintroscorna sustralis Schistoscorna mutiliocularis Chintroscorna sustralis Capatela releta Schistoscorna mutiliocularis	Meteora sp. Gefonella delijki (strain 249) Malawimonas laikobiromis Malawimonas laikobiromis Malawimonas sigmoides Ancyromonas mojica Ancyromonas mojica Ancyromonas sigmoides Nutromonas longia Mantamonas plastica Righta annosa Papprotostellim fungivorum Acanthamoese plastica Righta annosa Papprotostellim fungivorum Acanthamoese plastica Lavendran fascoulatia Heterostellum album Dictyrostellum descudeum Pygsula biforma The camonas trahens Fonticula alba Razella albumycis Gerandra alb	Oyurtcha rifellax Feitalyvrena thempohila Paraprecium tertaurella Baraprecium tertaurella Symbodinum microadinatecum Berkinik in minikum Virela brassicatomis Virela brassicatom	Sum (Carpedia lambila Glardia lambila di Glardia lambila del lambila

PHD.HG3.8, AIRE (5 similar OGs)

		PHD.HG3.8 AIRE PHD. HG3.0 like: AIRE: PHF12/PHF21A/PHF21B PHD. HG3.2 like: AIRE: PHF12/PHF21A/PHF21B PHD. HG3.5 like: AIRE: PHF12/PHF21A/PHF21B PHD.HG3.6 like: AIRE: PHF12/PHF21A/PHF21B PHD.HG3.6 like: AIRE: PHF12/PHF21A/PHF21B Sum
Sapingoeda rosetta Mchosiga brevicolis Leucosolenia complicata Sycon Cilumo Montre de Propinsi de Prop	yearsormicium miens yearsormicium ye	Signefila bialata Glandia jambila membranilera Glandia jambila membraniler

PHD.HG4.0, PHRF1 (0 similar OGs)

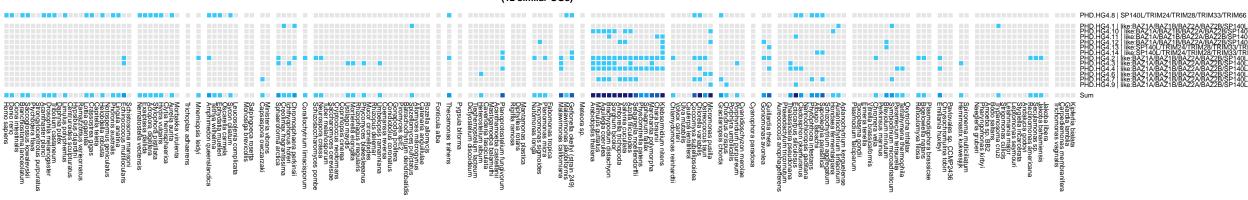
Morbakka yirulenta Aurelia aurita Aurelia aurita Ciyla hemisphaerica Hydra vulgaris Sylophora ipsililata Acropora digitilera Evalmasia rallida	oplax adhae	Amphimedon queensiandica Mnemiopsis leidvi	. g	Salpingoeca rosetta Monosiga brevicollis	Ministeria vibrans Capsaspora owczarzaki	Chromosphaera perkinsii Ichthyophonus hoferi Creolimax fragrantissima Sphaeroforma arctica	Corallochytrium limacisporum	Copiniopsis cinerea Cryptococcus neoformans Saccharomyces cerevisiae Tuber melanosporrum Neurospora crassa Schizosaccharomyces pombe	Mucor circinelloides Phycomyces blakesleeanus Rhizophagus irregularis Mortierella elongatia Ustilago maydis	Condidobilus Poinconatus Condinatisia reversa Copenansia reversa Umbelopsis ramanniana Rhizopus deleniar	Aozella allomycis Catenana anguliulae Allomyces macrogynus Spizellomyces punctatus Bartachochyrium dendrobatidis Bartachochyrium dendrobatidis Chromyces Statenan	Fonticula alba	Thecamonas trahens	Pygsuia biforma	Planoprotesteilum fungivorum Acarthamoeba estelläni Mastigamoeba balamuthi Caverõteria fascoularia Heterosteilum album Tieghenosteilum alsteum Dictyosteilum discouleum	Mantamonas plastica Diphylleia rotans Rigifila ramosa	Fabomonas tropica Planomonas micra Ancyromonas sigmoides Nutómonas longa	Gefionella okellyi (strain 249) Malawimonas jakobiformis Malawimonas californiana	Meteora sp.	Amborella trichopoda Sorghum bicolo Bračinypodium distachyon Aquilegia coerulea Milmulus guttatus Milmulus guttatus Arabidoptis thaliana

PHD.HG4.0 | PHRF1

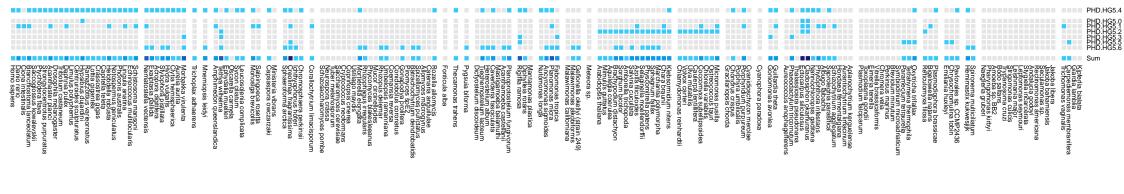
PHD.HG4.5, BAZ1A/BAZ1B/BAZ2A/BAZ2B (10 similar OGs)

			PHD.H PHD.H	
Capaspora owczarzaki Sabinopear caseltazki Sabinopear caseltazki Monosiga brevicolis Leucospienia complicata Okozon blatuma Ephydatia rutelleri Ephydatia rutelleri Ephydatia rutelleri Amphinedon queensiandica Mnemiopsis ieidyi Trichopiax adhaerens Mohakeb yirulenta Amphinedon queensiandica Amphinedon queensiandica Mnemiopsis ieidyi Trichopiax adhaerens Amphinedon queensiandica Exploración quee	Geflorelia odeljvi (strain 249) Malawimonas i skiphiornis Malawimonas i skiphiornis Malawimonas skiphiornia Palamononas micra Annymonas micra Annymonas micra Annymonas sigmodes Nudromonas sigmodes Nudromonas sigmodes Nudromonas sigmodes Nudromonas sigmodes Annymonas sastelliari funglyoum Acanhamoesa castelliari funglyoum Acanhamoesa tahens Thecamonas tahens Fonticula alba Saltamorphysis prolifera Saltamorphysis regularis Word interestinas Saltamorphysis regularis Norticula alba Thecamonas cartesiana Saltamorphysis artica Saltamo	Aplançonyntum kegulelense Aplançonyntum kegulelense Hollander Aplançonyntum kegulelense Aplançon Aplan	Kipferlia bialata Glardia ambia Glardia ambia Carpediemonas membranitera Tirchomonas vaginalis Jakoba Izharilensis Secularionas americana Shedaliya godoylen Jakoba Izharilensis Secularionas arreficiana Shedaliya godoylen Jakoba Izharilensis Secularionas arreficiana Shedaliya godoylen Jakoba Izharilensis Secularionas seymoun Leishmania niday Hemimastix kutiwesijik Paylovales sp. CCMP246 Emiligania Itulay Pateriologipina Brasicae Bigtiowiella raigans Reliculomyka Iloias Oxyricha Irifaliax Reliculomyka Iloias Granopelum irifauvitalia Berkinistis marimus Comoneta vala sessigladormis Elimelia rassigladormis	

PHD.HG4.8, SP140L/TRIM24/TRIM28/TRIM33/TRIM66 (12 similar OGs)



PHD.HG5.4, KMT2A/KMT2B/KMT2C/KMT2D (6 similar OGs)



PHD.HG6.4, PHF10 (4 similar OGs)

																									PHD.HG6.4 PHF10
																									PHD.HG6.0 like:DPF1/l PHD.HG6.1 like:DPF1/l PHD.HG6.2 like:DPF1/l PHD.HG6.3 like:DPF1/l
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cyflictosoma marisoni cyflictocharis cyflictosoma marisoni cyflictocharis cyflict	Morbakka kritleritä Morbakka kritleritä Aurelia aurita Ciylia herriisphaerica Hydra vulgaris Siyophora pisilia Siyophora pisilia Auroputa digilileria Krapitasia pällideri Krapitasia pällideria Krapitasia pällideria Krapitasia pällideria	Socon ciliatum Oscarella carmela Ephyadia nuelleri Tethya wilhelma Amphimedon queenslandica Mnemiopsis leidyi Mnemiopsis leidyi	Ministeria vibrans Capsaspora owczarzaki Sabingoeca rosetta Monosiga brevicollis	Corallochytrium limacisporum Chromosphaera perkinsi Ichthyophonus hoberi Creolimax fragrantissima Sphaerotorind arcticica	Phycomyces blakes leeanus Miczonia us regularis Usuliago mavdis sia Copiniopsis cinnerianis Copiniopsis Copiniopsi	Piromyces sp.E.2 Gonapodya prolifera Conidiobólus coronatus Coemanisa reversa Umbeloposis ramanniana Rhizopus delemar Mucor circinelloides	Fonticula alba Architectus alba, servicis Caenaria anguillulae Allomyces macrogynus Spizalomyces purcialus Barrachochyrtijm dendrobatidis	Pygsuia biforma Thecamonas trahens	riandriuwsteilum lungwium Acanthamoeba balamuthi Mastigamoeba balamuthi Cavenderia fasciculata Heterosteilum album Tieghenosteilum lacteum Dictyosteilum discoideum	Nutromonas longa Mantamonas plastica Diphyllela rotans Rigifila ramosa Rigifila ramosa	Malawimonas jákobiformis Malawimonas californiana Fabomonas tropica Planomonas micra Ancyromonas sigmoides	Meteora sp. Gefionella okellyi (strain 249)	Kelescomdium nitens Chara brautii Marchanta polymorpha Marchanta polymorpha Sphagnuni alla dasan Seladinella mellelandorifii Milliola derutus Arabidoposis maliana	Micromonas pusilla Ostreopoccus fauri Ostreopoccus fauri Celhorella variabilis Coccomyva subelipsordea Coccomyva subelipsordea Cualerpia entillitera Cualerpia carteri Chamydomonas reinhardtii	Cyanophora paradoxa Cyanidioschyzon merolae corphyndium purpureum corphyra umbificells Chondrus crisspus Gracifariopsis chorda Gracifariopsis chorda	Aureococcus anophagefferens Guillardia theta Goniomonas avonlea	Teyndasi ne (menangana Sanohogha na aggregatun Abtuop ilabachi ilabachi Abtuop ilabachi Dyriophtora insesans Vajanochioopsis gaditana Vajanochioopsis gaditana Kanoachius elikusius us Finalassi Gosifa pseudorana Phaeodadyium ilitorimijum	Towoplasma oondii Towoplasma oondii Plasmodum falciparum Aplanochytrium kerguelense Aurantiochytrium limachum	Oxynricha rifallax Tetrahymena thermophila Paramecium tetraurelia Symbjodinum mindum Berkinsus marinus Perkinsus marinus Kinena seila Kinena seila	Plasmodiophora brassicae Bigelowiella natans Réticulomyxa filosa	Spironema multiciliatum Hemimastix kukwesjijk Paylovales sp. CCMP2436 Chrysochtomulina tobin	Strgomonas culicis Trypanosoma cruzi Bodo saltans cruzi Admoeba sp. BB2 Pharyngomonas kirbyi Naegleria gruberi	Jakoba libera Jakoba bahamiensis Seculamonas sp. Reclinomonas famericana Andaluda godovi Andaluda godovi Styglella inčarcerata Leptomonas seymouri	Kipferlia bialata Giardia lambila Carpediemonas membranifera Tichomonas vaginalis	

PHD.HG6.6, DPF1/DPF2 (5 similar OGs)

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						Sr.	um
Trichoplax adhaerens Mochaeka virulenta Auralija aurita Grijat hemisphaenica Grijat hemisphae	Cerbinus de permissi Cerbinus ragantissma Scheeroform à arctica Ministeria vibranzi Capasaspora ww.czarzaki Capasaspora ww.czarzaki Sajalnio, opeca roseitla Monosigia treviolia Monosigia treviolia Secono platum Secono platum S	The camon as trahens Fontioula alba Rezalla alkamida Jalaming alka	Meteora sp. Geffonella okelly (strain 249) Melawinovas jaktybiorms Fabonovas rojica Fabonovas rojica Fabonovas rojica Fabonovas rojica Audyormovas spikad Mortamovas posika Mortamovas Mor	Cyandrophora paradoxa Cyandrophora paradoxa Cyandrophora paradoxa Cyandrophora paradoxa Cyandrophora paradoxa Cyandrophora paradoxa Caradian Operativa unibilizialis Caradian Operativa unibilizialis Caradian Operativa unibilizialis Conzomyxa supelii psodea Candrapa en ilitera controla Conzomyxa supelii psodea Candrapa en ilitera Conzomyxa supelii psodea Conzom	registration in the interest of the control of the	Spiderlia biajata Cappediernonas regmanis Cappediernonas vaginatis Cappediernonas vaginatis Lakcha libera Lakcha l	

PHD.HG6.8, KAT6A/KAT6B (5 similar OGs)

			PHD.HG6.0 like:DPF1/DPF2/KA BHB.HG6.1 like:BBF1/BBF2/KA PHB.HG6.3 like:DPF1/DPF2/KA PHB.HG6.3 like:DPF1/DPF2/KA PHB.HG6.7 like:ArtAGAKAT6B
Salpingoega rosetta Monosiga trevtooliis Leucoscienia complicata Sycon ciliatum omplicata Anchaeka virudenta Sylopinda pisiliata Eviridenta virudenta Evirudenta virudenta Evirudenta virudenta Evirudenta Eviruden	Gefionella otellyi (strain 249) Malawimonas falkobitorina Faboromonas trojcia Panomonas trajcia Panomo	Aplanochyritum kergueiense Aplanochyritum kergueiense Aplanochyritum kergueiense Aplanochyritum kergueiense Aplanochyritum agglegarum Schröcehyritum agglegarum Schröcehyritum agglegarum Schröcehyritum agglegarum Schröcehyritum agglegarum Schröcehyritum siliculosus Eciocarpus siliculosus Eciocarpus siliculosus Eciocarpus siliculosus Eciocarpus siliculosus Eciocarpus siliculosus Eciocarpus siliculosus Phatassociar sepusionana Aureocoacus anophoga paradoxa Cyanophora siliculosus Chordus crispus Gracilanopsis chorda Micromoross pusili Schrödea Wiczonowski siliculosus Cocormy va subelin Schrödea Wiczonowski siliculosus Cocormy va subelin Schrödea Wiczonowski siliculosus Chordus Chamydomorosa enhanduli (Na sepusiona Cocormy va subelin Schrödea Wiczonowski siliculosus Cocormy va subelin Schrödea Wiczonowski siliculosus Chordus Chamydomorosa enhanduli (Na sepusiona Cocormy va subelin Schrödea Chamydomorosa siliculosus Chamydomorosa siliculosus Chamydomorosa siliculosus Salvinia coculiasa Salvinia coculiasa Salvinia coculiasa Salvinia coculiasa Salvinia coculiasa Salvinia siliculosus Salvinia coculiasa Salvinia coculiasa Salvinia coculiasa Salvinia coculiasa Salvinia siliculosus Salvinia Coculiasa Salvinias Salvin	Kpterlia bialata Caracta lambila membranilera Caracta lambila membranilera Caracta lambila membranilera Independencia superilera del producio del pr

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Cyanidioschyzon merolae	Cyanophora paradoxa	Guillardia theta Goniomonas avonlea	Aplancehritum legruelense Aurantochytum infracinum Condace lermentaighana Schizochytum agglegatum Reprolegia plarastica Reprolegia plarastica Putter incorpsis gardiana Janochricopais gardiana Janochricopais gardiana Janochricopais gardiana Janochricopais gardiana Janochricopais liculosus Fraissiosira paeudonana Fraissiosira paeudon	Oxyrticha triallax etralmymena thermophila etralmymena thermophila etralmymena thermophila ymbiodinium introadraticum etralmymena etralmym	Plasmodiophora brassicae Bigelowiella natans Reticulomyxa filosa	Pavlovales sp. CCMP2436 Chrysochromulina tobin Emilania huxleyi	Spironema multiciliatum Hemimastix kukwesjijk	Jakoba libera Jakoba libera Jakoba libera Salada bahaniensis Secularnonas sip. Secularionas sip. Aleadironnonas sip. Sygiella inčarodirata Lepomonas serymouri Selsimania major Selsimania major Selsimania major Selsimonas scilicis Sobos sip. BEZ Amoeba sip. BEZ	Kipferlia bialata Glardia lamblia Carpediemonas membranifera Trichomonas vaginalis	

PHD.HG7.0, PHF13/PHF23 (1 similar OGs)

PHD.HG7.0 | PHF13/PHF23

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		Sum
Spheerick fragranktissimal Spheerick fragranktis	Chlamydomonas reinhardtii Chlamydomonas reinhardtii Chlamydomonas reinhardtii Chlamydomonas reinhardtii Chlamydomonas reinhardtii Charab raurii in see Marchardtia polymorpha Marchardtia polymorpha Sepänjallia moellendorffii Asabrina ou.ullata Sambrina ou.ullat	Kipferila biajata Gardia lambia Gardia lambia Gardia lambia Gardia lambia Ticchomonas wagnatis Jacoba tibera wagnatis Jacoba tibera wagnatis Sacularomas yagnatis Sacularomas zulicis Tyganas yagnatis Sagnas yagnas yagnatis Sagnas yagnas yagnatis Sagnas yagnas yagnatis Sagnas yagnas yag

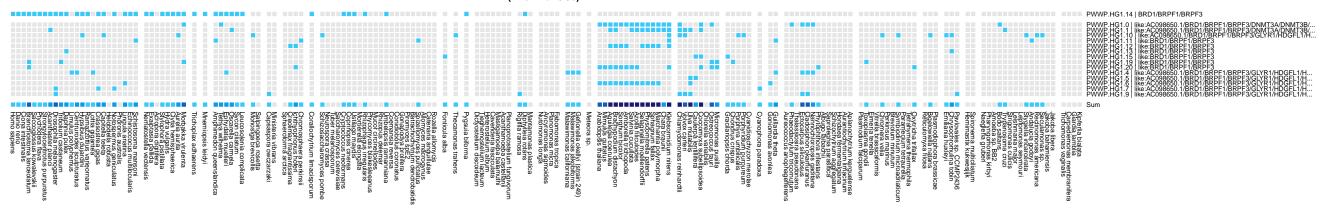
PHD.HG7.3, KMT2E (2 similar OGs)

			•• • · · · · · · · · · · · · · · · · ·	PHD.HG7.3 KMT2E
	.		.	PHD.HG7.1 like:KMT2E/PHF13/PHF23 PHD.HG7.2 like:KMT2E
				Sum
Cyfui'a hemisi heerica Hydra vulgalis Sylophora glaitliara Sylophora Sylopho	Copinrossis cinetea Scharbockus in selection	Malawinonas taliforniana Fabornonas incira Panormonas incira Ancyromonas ingraida Ancyromonas ingraida Ancyromonas ingraida Mantamonas plastica Diphylleia rotaris Righta ramosa Righta	Schröden ig und stelle galum schröden in der Schröden ist der	Kipferjia bialaja Giardia lambia Giardia lambia Gia

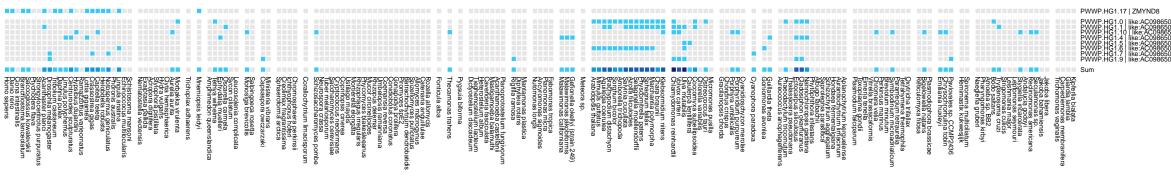
PHD.HG8.2, KDM4A/KDM4B/KDM4C/KDM5A/KDM5B/KDM5C/KDM5D (2 similar OGs)

			PHD.HG8.2 KDM4A/KDM4B/KDM4C/KDM5A/KDM5C/KDM5D PHD.HG8.0 like:KDM4A/KDM4B/KDM4C/KDM5A/KDM5B/KDM5C/KDM5 PHD.HG8.1 like:KDM4A/KDM4B/KDM4C/KDM5A/KDM5B/KDM5C/KDM5 PHD.HG8.1 like:KDM4A/KDM4B/KDM4C/KDM5A/KDM5B/KDM5C/KDM5	iD SD
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origaka virulenta urbela atriba herica da	zezella allomycis atenaria andillulae iomyces macrogyrus iomyces purfiscus iozellomyces purfiscus incorpiscus iozelesia iozellomyces purfiscus incorpiscus iozelesia incorpiscus iozelesia incorpiscus incorpi	vajaldisestryzon merolee zaphyria umbircelies zaphyria	pleria biajata arada ambia arada arada ambia arada arada ambia arada arada arada ambia arada ara	

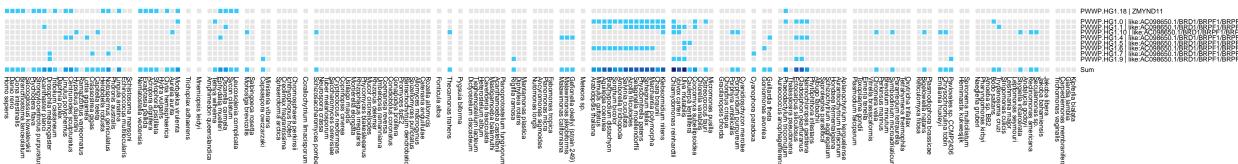
PWWP.HG1.14, BRD1/BRPF1/BRPF3 (14 similar OGs)



PWWP.HG1.17, ZMYND8 (8 similar OGs)



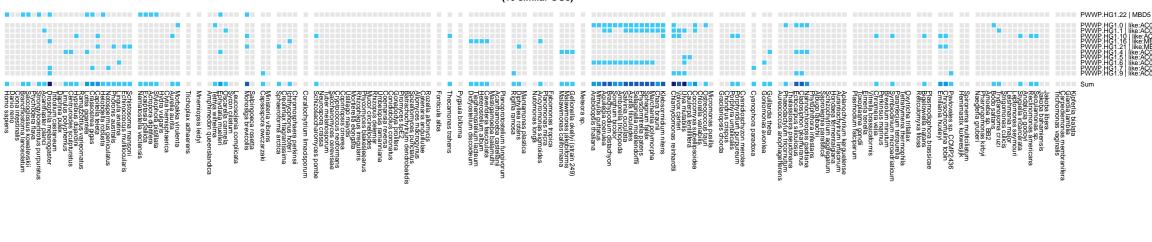
PWWP.HG1.18, ZMYND11 (8 similar OGs)



PWWP.HG1.2, NSD1/NSD2/NSD3 (2 similar OGs)

	PWWP.HG1.2 NSD1/NSD2/NSD3
	PWWP.HG1.0 like:AC098650.1/BRD1/BRPF1/BRPF3/DNMT3A/DNMT3B/ PWWP.HG1.1 like:AC098650.1/BRD1/BRPF1/BRPF3/DNMT3A/DNMT3B/
	Sum
Aurecococks an inchangeliteirus Gonilardia theta Cyanophora paradoxa Meteora sp. Callardia palen Cyanophora paradoxa Meteora sp. Callardia codelly (Stain 249) Malawimonas talifornia Malawimonas talifornia Paradoxa paradoxa Meteora sp. Callardia codelly (Stain 249) Malawimonas talifornia Malawimonas talifornia Paradoxa paradoxa Malawimonas talifornia Panoprotosellum atamini Panoprotosellum	Glardia inbigita Glardia inbigita Cappediernonas membranifera Cappediernonas seginalis Cappediernonas seginalis Lakoba libera La

PWWP.HG1.22, MBD5 (10 similar OGs)



PWWP.HG1.3, DNMT3A/DNMT3B (2 similar OGs)

		PWWP.HG1.3 DNMT3A/DNMT3B
		PWWP.HG1.0 like:AC098650.1/BRD1/BRPF1/BRPF3/DNMT3A/DNMT3B/ PWWP.HG1.1 like:AC098650.1/BRD1/BRPF1/BRPF3/DNMT3A/DNMT3B/
TECHNOTION =		Sum
sirizeliomives purificiatus sariachodyntuja dendrobatidis sariachodyntuja dendrobatidis sariachodyntuja dendrobatidis coronaus openarisi specifica sondobolitis coronaus openarisi reversa imbelopsis remanniana fluzopus defennas completosis remanniana fluzopus defennas sariago maela desperaria eversa sullago maela desperaria servicia de la completa sullago maela desperaria sullago desperaria sullago maela desperaria sullago maela desperaria sullago desperaria desper	iemmastic kukwesijik kandorajes sp. CCL Mp2436 h/hysochromulina tobin miliana huxley. Ahysochromulina tobin miliana huxley. Seitudiomyva filosa kyrticia tribijas kyrticia t	prierija bialata jarda lambira jarda lambira jarda lambira jarda lambira jarda lambira jarda lambira jarda baranjensis seuda bahanjensis seuda bahanjensis seuda bahanjensis seuda bahanjensis seuda padamira seuda pada

PWWP.HG1.8, AC098650.1/GLYR1/HDGFL1/HDGFL2/HDGFL3/MSH6/PSIP1/PWWP2A/PWWP2B/PWWP3B/ZCWPW1/ZCWPW2 (8 similar OGs)

					PWWP-HG1.0 Ike: AC98950.1 IBRD18RPE1/BRPE3/DMT3ADNMT38 PWWP-HG1.1 Ike: AC98950.0 IBRD18RPE1/BRPE3/DMT3ADNMT38 PWWP-HG1.10 Ike: AC98950.0 IBRD18RPE1/BRPE3/DMT3ADNMT38 PWWP-HG1.4 Ike: AC98950.0 IBRD1/BRPE1/BRPE3/GWT1/HDGE1.1/H PWWP-HG1.5 Ike: AC98950.0 IBRD1/BRPE1/BRPE3/GWT1/HDGE1.1/H PWWP-HG1.7 Ike: AC98950.0 IBRD1/BRPE1/BRPE3/GWT1/HDGE1.1/H PWWP-HG1.7 Ike: AC98950.0 IBRD1/BRPE1/BRPE3/GWT1/HDGE1.1/H
Monosiga brevicolis Jeconosiga brevicolis Jeconosiga brevicolis Jeconosiga brevicolis Jeconosiga brevicolis Jeconosiga brevica Jeconosica Jeconosiga brevica Jeconosica Jeconosiga brevica Jeconosica Jeconosiga brevica Jeconosica Jecon	Thecamonas trahens Fontcula alba Rozella allomycis Caternaria anguillulae Caternaria anguillulae Caternaria anguillulae Salmonyes matercogynus Salmonos horogynus Salmonos prodiera Salmonos prodiera Comapogya prodiera Salmonos prodiera Comapogya prodiera Salmonos prodiera Comapogya prodiera Salmonos prodiera Comapogya prodiera Comapogya prodiera Comapogya prodiera Comapogya prodiera Rhizopha gus fregularia Rhizopha gus fregularia Salmonos cerevisiae Salmonos prodiera Salmonos	Ketspormidum nitensis Chara braunii Chara br	Bojelowiella nations Réfoldomysa filosa Qxyricha trisilax Ietrahymena imemophila Paramejodmium tertauriala Baramejodmium appropriation Plas social practica de primaria paramium Apianochytrium kegipuelens Schizodhytrium apgregatum Apianochytrium apgrega	Glardia lambilia Carpediemonas membranitera Trichomonas vaginalis Jakoba libera Jakoba baraniensis Seculamonas synalis Redinomonas synalis Redinom	Sum Koretaliah

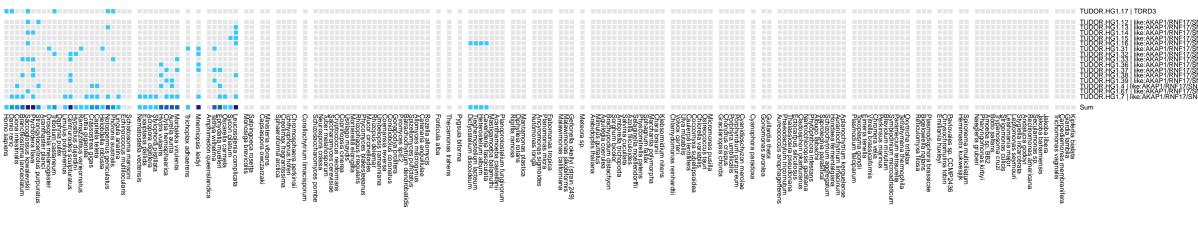
TTD.HG1.0, UHRF1/UHRF2 (0 similar OGs)

	TTD.HG1.0 UHRF1/UHRF2
	Sum
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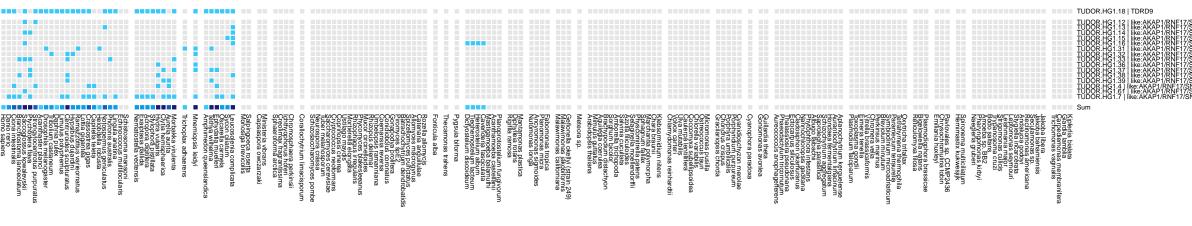
TUDOR.HG1.1, TDRD12 (1 similar OGs)

			TUDOR.HG1.1 TDRD12 TUDOR.HG1.2 like:TDRD12 Sum
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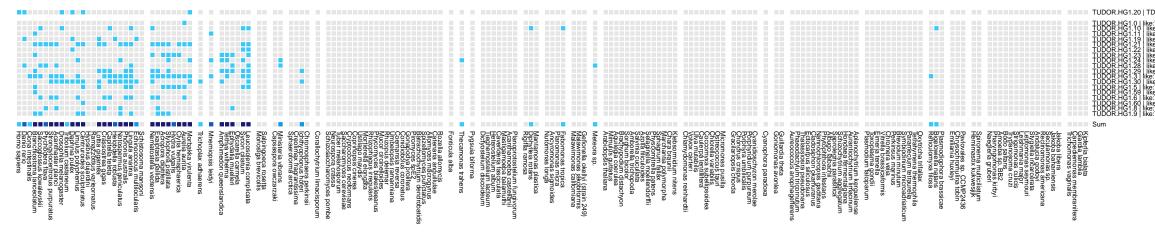
TUDOR.HG1.17, TDRD3 (15 similar OGs)



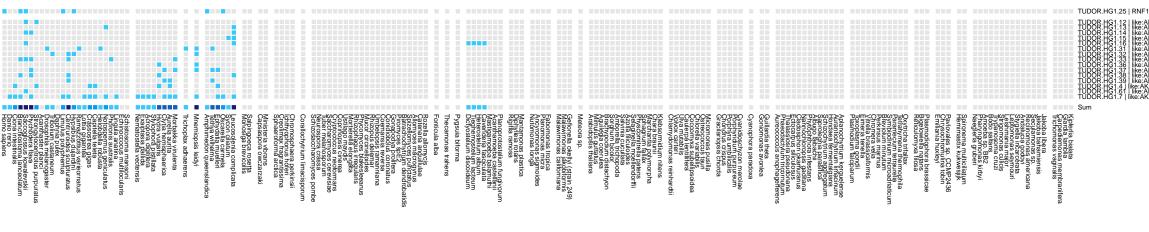
TUDOR.HG1.18, TDRD9 (15 similar OGs)



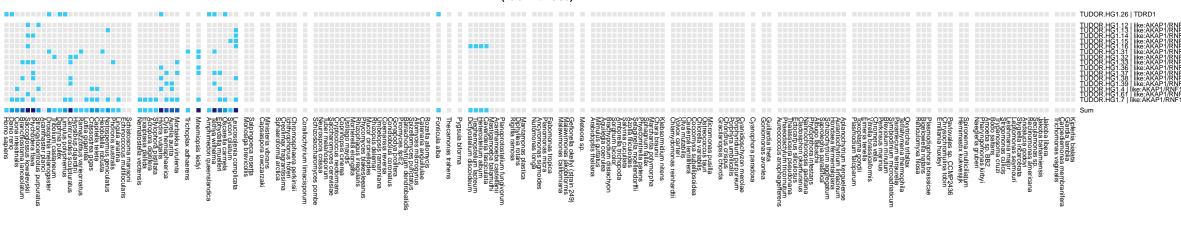
TUDOR.HG1.20, TDRD6/TDRD15 (18 similar OGs)



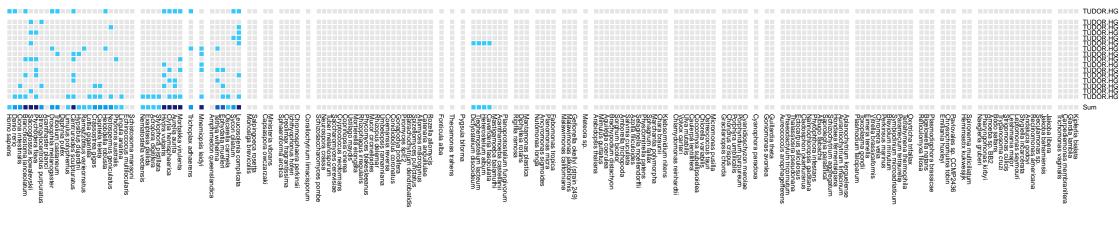
TUDOR.HG1.25, RNF17 (15 similar OGs)



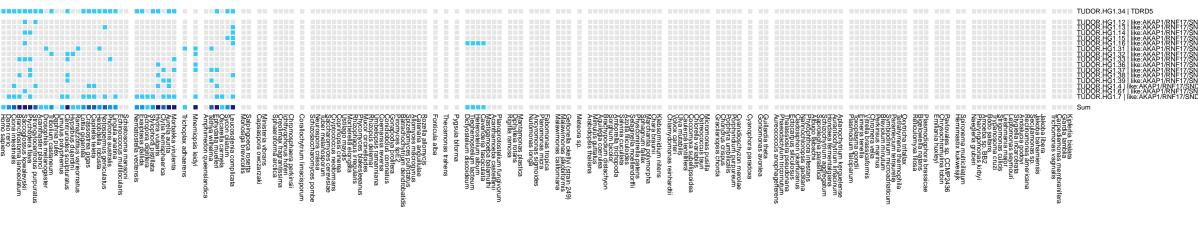
TUDOR.HG1.26, TDRD1 (15 similar OGs)



TUDOR.HG1.27, TDRD7 (15 similar OGs)



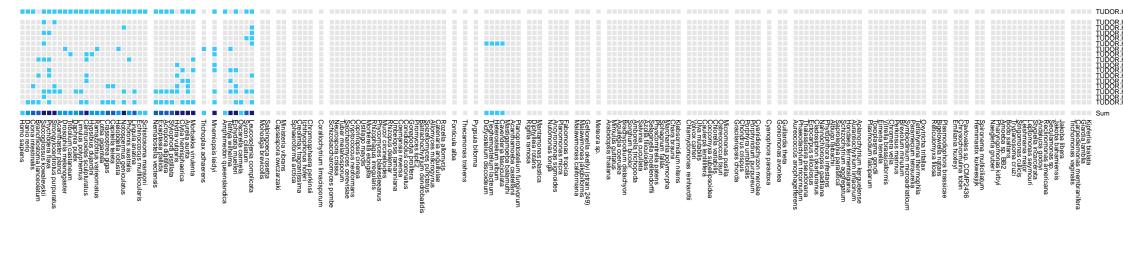
TUDOR.HG1.34, TDRD5 (15 similar OGs)



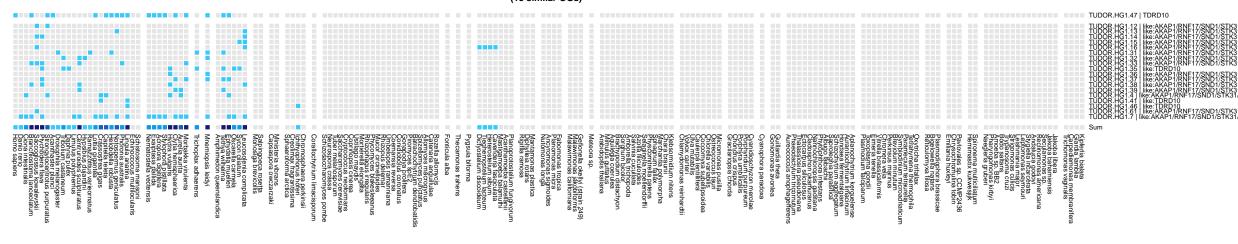
TUDOR.HG1.40, TDRKH (17 similar OGs)

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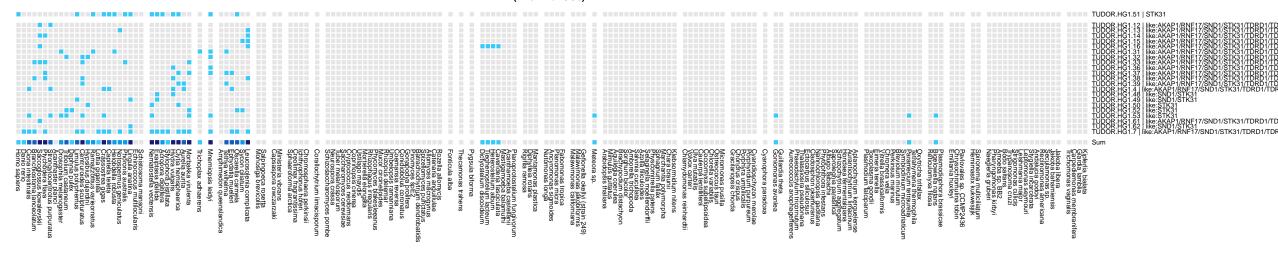
TUDOR.HG1.43, AKAP1 (16 similar OGs)



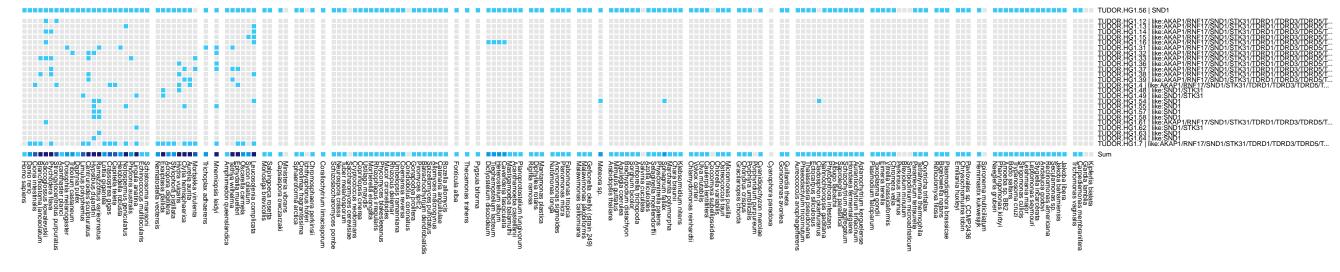
TUDOR.HG1.47, TDRD10 (18 similar OGs)



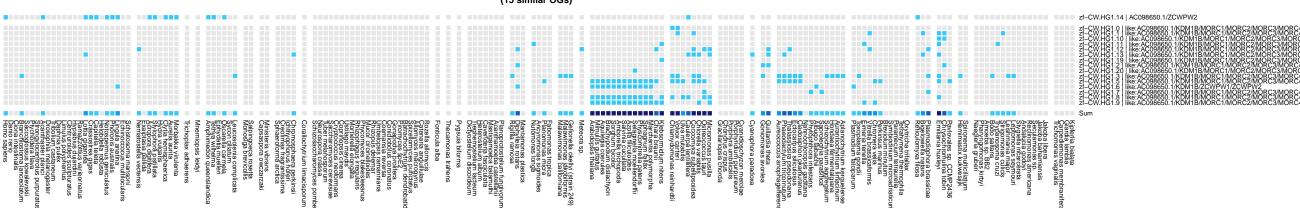
TUDOR.HG1.51, STK31 (21 similar OGs)



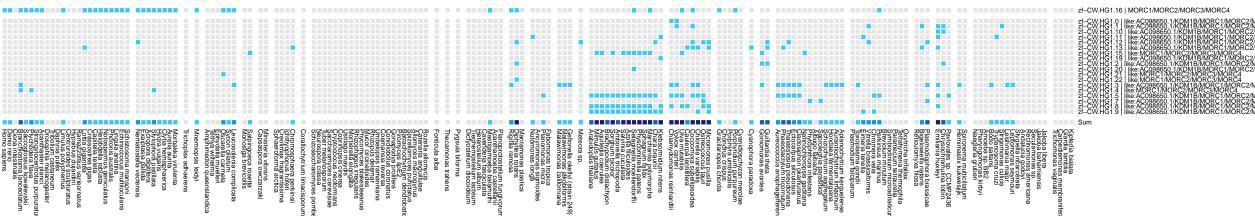
TUDOR.HG1.56, SND1 (24 similar OGs)



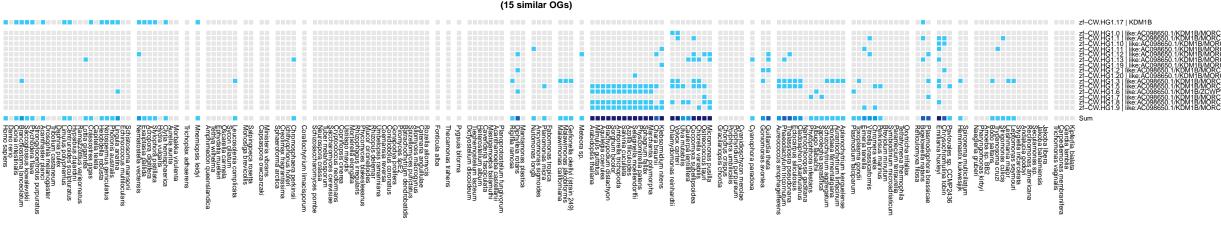
zf-CW.HG1.14, AC098650.1/ZCWPW2 (15 similar OGs)



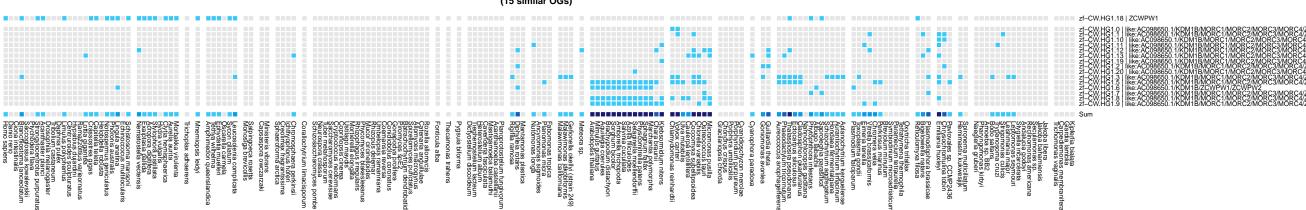
zf-CW.HG1.16, MORC1/MORC2/MORC3/MORC4 (18 similar OGs)



zf-CW.HG1.17, KDM1B (15 similar OGs)



zf-CW.HG1.18, ZCWPW1 (15 similar OGs)



YEATS.HG1.6, YEATS2 (8 similar OGs)

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		YEATS.HG1.6 YEATS2
		VEATS HG10 like:MLT1ML173/EATS2/XEATS4
		YEATSHG1.4 like:MLLT1/MLLT3/YEATS2/YEATS4 YEATS.HG1.5 like:MLLT1/MLLT3/YEATS2/YEATS4
		Sum
Corallodytrium imacisporum Chemosphaera perkinsii Chhymophorus belge Chemosphaera perkinsii Chhymophorus belge Chemosphaera perkinsii Chhymophorus belge Caposaspora owczerzaki Splainopee ar rosetta Ministeria vibrans Caposaspora owczerzaki Splainopee ar rosetta Ministeria vibrans Splainopee ar rosetta Ministeria vibrans Splainopee ar rosetta Ministeria vibrans Morbakta virulenia Echydevita muelleri Echydevita muelleri Trichopia va dhaerens Morbakta virulenia Aurelia aurita Aurelia Aure	(War michailis "Wolyok carteri	Spiceriia bieleta Carpadiemonas membranifera Carpadiemonas membranifera Carpadiemonas membranifera Carpadiemonas saginalis Lakoba libera Lakob

YEATS.HG1.8, MLLT1/MLLT3 (9 similar OGs)

	(9 Similar OGS)		
			YEATS.HG1.8 MLLT1/MLLT3
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YEATS.HG1.9, YEATS4 (9 similar OGs)

	(9 similar OGs)		
			YEATS.HG1.9 YEATS4
			YEATS HG 1.0 like:MLT1/M YEATS HG 1.10 like:MLLT1/M YEATS HG 1.21 like:MLLT1/M YEATS HG 1.31 like:MLT1/M YEATS HG 1.31 like:MLT1/M YEATS HG 1.51 like:MLT1/M YEATS HG 1.51 like:MLT1/M YEATS HG 1.51 like:MLT1/M
Alinisteria vibrans Capsaspora o wezarzaki Salpingoea nosetta Wohosiga brevionita Jeucosigienia compicata Secale la carmela Secale la carmela Secale la carmela Epiydatia, nuellen Intropolax adhaerens Worbakka virulenta Aurelia aurita Aurelia aurelia Aurelia aurita Aurelia aurelia Aurelia aurelia Aurelia a	Wellumen deelijk (sjilain (44)) Welluminans ealiikiniansis Rabomonas topica Anaromonas migra Anaromonas migra Anaromonas migra Anaromonas migra Anaromonas migra Anaromonas plastica Rigilia ramosa Rigil	Bieviolum miniuum Bieviolum miniuum Bieviolum miniuum Christias valla brassikatormis Eimeria tenella Eimeria Eimeria tenella Eimeria Eimeria	Gigleriia bialata Gigleriia bialata Gigleriia bialata Gigleriia bialata Gigleriia bialata Gigleriia Gigler