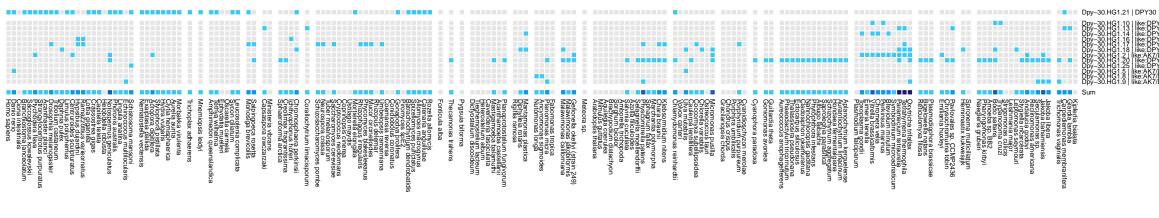
Dpy-30.HG1.1, DYDC1/DYDC2 (2 similar OGs)

		,		
				Dpy-30.HG1.1 DYDC1/DYDC2
				Dpy-30.HG1.0 like:DYDC1/DYDC2 Dpy-30.HG1.22 like:DYDC1/DYDC2
				Sum
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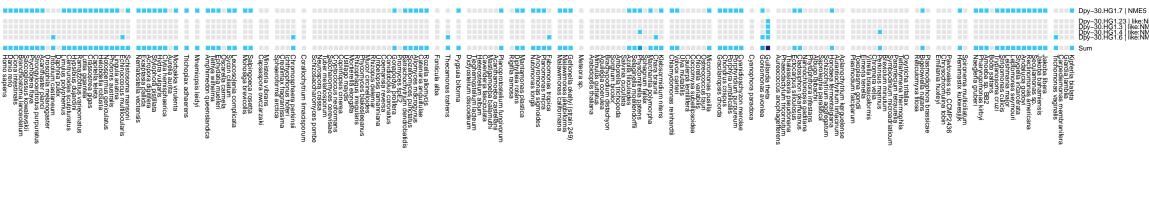
Dpy-30.HG1.19, AK7 (8 similar OGs)

		(0 0	
			Dpy-30.HG1.19 AK7
Sycon cilatum Sycon cilatum Edition in the control of the control	Pygsula biforma The camonas trahens Fonticula alba Rozzella pilomycis Rozzella pilomycis Rozzella pilomycis Rozzella pilomycis Rozzella pilomycis Rozzella pilomycis Rozzello pilomycis	Guillardia theta Goniomoras avonlea Cyanophora paradoxa Vanicioschyzon meroka Porphyra umbilicalis Gracilanopsis chorda Micromoras pusilia Sireococcus iauri Chordus crisps side Sireococcus iauri Chordus crisps side Sireococcus iauri Chorella vanialisiria Sarchara braurii Chiamydomoras reinhardtii Rebsormidium nitens Chara braurii Chiamydomoras reinhardtii Rebsormidium nitens Chara braurii Chiamydomoras reinhardtii Rebsormidium nitens Chara braurii Chiamydomoras reinhardtii Chiamydomoras reinhardtii Sarchina croulista Sarchina croulist	Sylogetia bialata Glarda jambila Glarda podoyi Jakoba libera Jakob

Dpy-30.HG1.21, DPY30 (12 similar OGs)



Dpy-30.HG1.7, NME5 (4 similar OGs)



Menin.HG1.0, MEN1 (0 similar OGs)

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Schistosoma mansoni chinococus muliocularis propia aratma is chinococus muliocularis propia aratma is violegerinus speriodatus electosella nobusta chinococus muliocularis control de contr	Morbakka yirulenta Aurelia aurtit Gylia hemishaerica Gylia hemishaerica Hydra vulgaris Sylophora pigillera Acropora digillera Exapitasia pallida Rematostelia voetensis	Mnemiopsis leidyi Trichoplax adhaerens	Leucosolenia complicata Sycon ciliatum Sycarelia carmela Ephydatia muelleri Tethya wilhelma Amphimedon queenslandica	Salpingoeca rosetta Monosiga brevicollis	Ministeria vibrans Capsaspora owczarzaki	Chromosphaera perkinsii Ichthyophonus hoferi Creolimax fragrantissima Sphaeroforma arctica	Corallochytrium limacisporum	Coprincipolis de la Coprincipolis del Coprincipolis del Coprincipolis de Coprincipolis de Coprincipolis de Coprincipolis de Coprincipolis de Coprincipolis de Coprincipolis del Coprincipolis de Coprincipolis de Coprincipolis de Coprincipolis de Coprincipolis de Coprincipolis del Coprincipolis del Coprincipolis de Coprincipolis del Coprincipolis de Coprincipolis de Coprincipolis de Coprincipolis de Coprincipolis del Coprincipolis del Coprincipolis de Coprincipolis del Coprincipolis de Coprincipolis de Coprincipolis del	Mucof circinelloides Phycomyces blakesleeanus Rhizophagus irregularis Mortierale elongata Istilaco maydis	Gonajodya prolifera Condiobólus coronatus Coemansia reversa Umbelopsis ramanniana Rhizopus delemar	Rozella allomycis Catenaria anguliulae Allomycas madrogynus Spizellomycas pundatus Batrachochytrium dendrobatidis Piromyces \$5E2	Fonticula alba	Thecamonas trahens	Pygsuia biforma	Planoprotosielium fungivorum Acanthamoeba pasiellänii Mastigamoeba balamuthi Caverideria fasocularia Heterostelium album Dictyostelium discondeum	Mantamonas plastica Diphylleia rotans Rigifila ramosa	Fabomonas tropica Planomonas micra Ancyromonas sigmoides Nutomonas longa	Malawimonas jakobitormis Malawimonas californiana

Menin.HG1.0 | MEN1

NCOA6.HG1.0, NCOA6 (0 similar OGs)

Rigifila ramosas un maggiorum fungiorum fungio

NCOA6.HG1.0 | NCOA6

PA1.HG1.0, AC120114.4/PAGR1 (0 similar OGs)

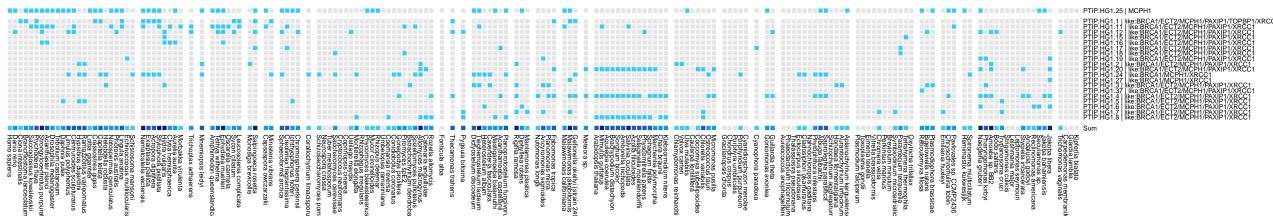
PA1.HG1.0 | AC120114.4/PAGR1

PTIP.HG1.0, TOPBP1 (1 similar OGs)

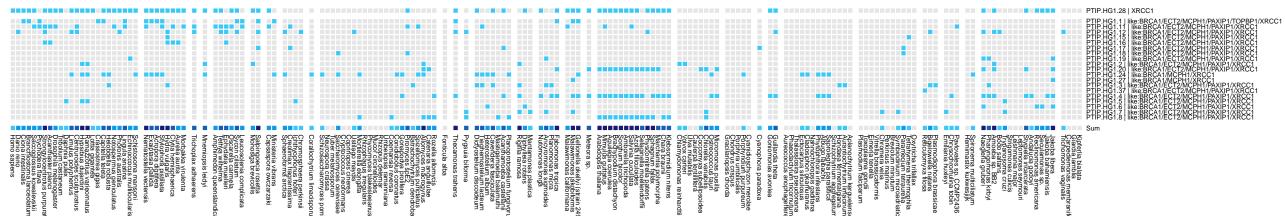
														•																				PTIP.H	G1.0 TOPBP1 G1.1 like:BRCA	
Saccoglossus kow Branchiostoma lar Ciona intestinalis Danio rerio Homo sapiens	Daphnia polypnem Daphnia pulex Tribolium castaneu Drosophila melanc Acanthaster planc Strongylocentrotus	Capitella teleta Crassostrea gigas Crassostrea gigas Cottia gigantea Ramazzottius variu Hypsibius dujardin Centruroides sculp	Schistosoma man Echinoccocus mul Lingula anatina Phoronis australis Notospermus gen Habbala robjent	Aurelia aurita Clytia hemisphaer Clytia hemisphaer Hydra vulgaris Stylophora pistillat Acropora digitifera Acropora augustera Acropora pallata Nematostella vectu	Mnemiopsis leidyi Trichoplax adhaeri Morbakka virulenti	Sycon ciliatum Sycon ciliatum Oscarella carmela Ephydatia mueller Tethya wilhelma Amphimedon quee	Salpingoeca roset Monosiga brevicol	Creoling your and Creoling X fragrant Sphaeroforma arc	Schizosaccharomy Corallochytrium lin	Ustilago maydis Coprinopsis cinere Cryptococcus neo Saccharomyces or Tuber melanospor	Umbelopsis ramar Rhizopus delemar Rhizopus delemar Mucor circinelloide Phycomyces blake Rhizophagus irreg Rhizophagus irreg	Batrachochytrium Piromyces spE2 Piromyces spE2 Gonapodya prolife Conidiobolus coro	Fonticula alba Rozella allomycis Catenaria anguillu Allomyces macrog	Pygsuia biforma Thecamonas trahe	Acanthamoeba ca Mastigamoeba bal Mastigamoeba bal Cavenderia fascica Heterostelium albu Tieghemostelium disc Dictyostelium disc	Diphylleia rotans Rigifila ramosa Planoprotostelium	Fabomonas tropica Planomonas micra Ancyromonas sign Nutomonas longa	Gefionella okellyi (Malawimonas jako Malawimonas calif	Sorghum bicolor Bracity podium dist Aquilegia coerules Mimulus guttatus Arabidopsis thalian Meteora sp.	Marchantia polymo Sphagnum fallax Sphagnum fallax Physcomitrella pat Physcomitrella moelle Selaginella moelle Azolla filiculoides Salvinia cucullata Amborella trichoore	Chlamydomonas r Klebsormidium nit	Micromonas pusill Ostreococcus taur Ostreococcus taur Chlorella variabilis Coccomyxa subell Caulerpa lentillifer	Cyanidioschyzon r Porphyridium purp Porphyra umbilical Porphyra umbilical Chondrus crispus Gracilariopsis cho	Guillardia theta Goniomonas avon	Cladosiphon okam Cladosiphon okam Ectocarpus siliculo Inalassiosira pseu Phaeodactylum tri	Aplanochytrium ke Aurantiochytrium li Aurantiochytrium li Hondaea fermenta Schizochytrium ag Saprolegnia paras Albugo laibachii	Perkinsus marinus Perkinsus marinus Chromera velia Vitrella brassicator Eimeria tenella Toxoplasma gondi Plasmodium falcip	Oxytricha trifallax Tetrahymena therr Paramecium tetra Symbiodinium mic	Emiliania huxleyi Plasmodiophora b Bigelowiella natan Reticulomyxa filos	Spironema multicii Hemimastix kukwe Pavlovales sp. CC	Bodo saltans Amoeba sp. BB2 Pharyngomonas k Naegleria gruberi	Reclinomonas am Andalucia godoyi Andalucia godoyi Stygiella incarcera Leptomonas seym Leishmania major Strigomonas culici	Carpediemonas m Trichomonas vagir Jakoba libera Jakoba bahamiens	Kipferlia bialata		
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PTIP.HG1.1 | like:BRCA1/ECT2/MCPH1/PAXIP1/TOPBP1/XRCC1 Sum

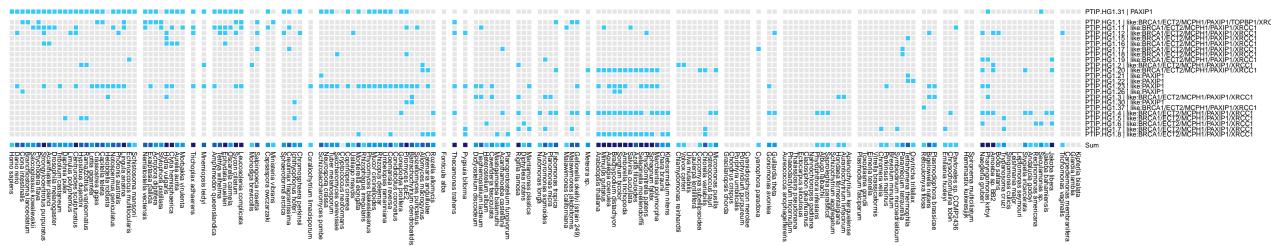
PTIP.HG1.25, MCPH1 (19 similar OGs)



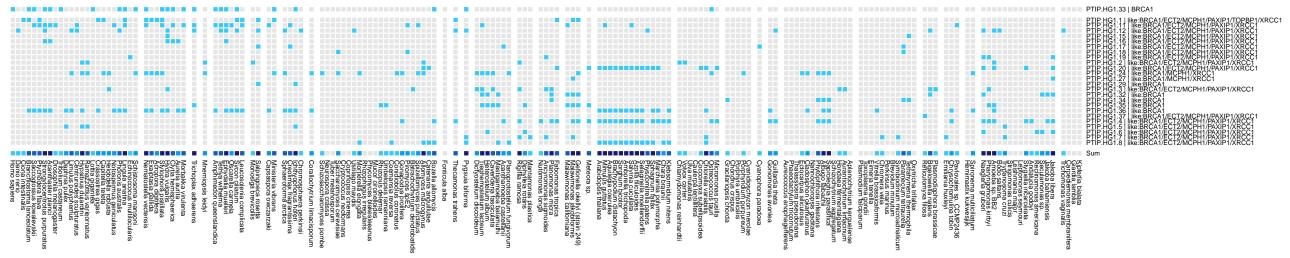
PTIP.HG1.28, XRCC1 (19 similar OGs)



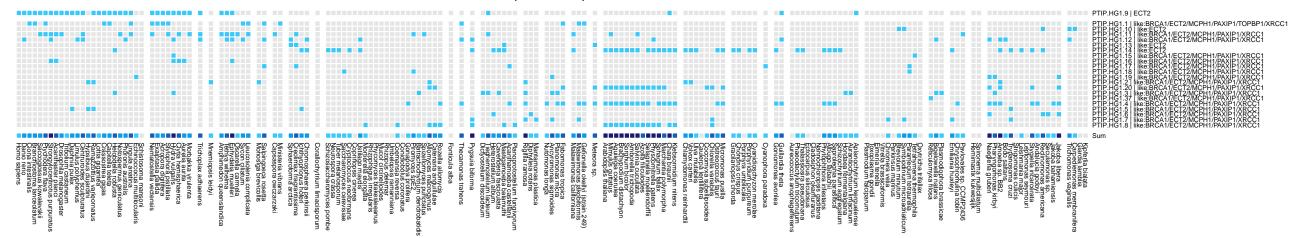
PTIP.HG1.31, PAXIP1 (22 similar OGs)



PTIP.HG1.33, BRCA1 (24 similar OGs)



PTIP.HG1.9, ECT2 (20 similar OGs)



PTIP.HG2.0, PARP4 (0 similar OGs)

		· · · · · · · · · · · · · · · · · · ·			PTIP.HG2.0 PARP4
					Sum
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PTIP.HG2.2, PARP1 (2 similar OGs)

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ndica lairis us	mn (249) mn	la um la um la um la um la um la la la la la l	ranifera nn n n n n n n a iaticum

PTIP.HG3.4, RFC1 (4 similar OGs)

								100																		PTIP.HG3.4 RFC1
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scriptoschria marischi Enimozogia muliocularis Enimozogia muliocularis Enimozogia muliocularis Enimozogia muliocularis Enimozogia muliocularis Phofornis australis Volcaperimus geniciatus Heichbeil arobista Galmais me ladas Calmais me ladas Calmais me ladas Calmais me ladas Calmais me ladas Enimum codes pseupuratus Hypsichius dujardini Enimum codes pseupuratus Hypsichius dujardini Calmais pulex Enimum codes pseupuratus Daphinia pulex Enimum codes pseupuratus Popuratus pulex Enimum codes pseupuratus Sicognyolocarifrotus purpuratus Sicognyolocarifrotus purpuratus Sacoglocasus konvaeleystii Sacoglocasus konvaeleystii Sacoglocasus konvaeleystii Sacoglocasus konvaeleystii Cani particularis	Mongakka virulena Aurelia aurilen Aurelia Aurilen Aurelia Aure	Sycon ciliatm Oscarella campla Ephydalia muelleri Tethya withelma Amphimedon queenslandica Mnemiopsis leidy Mnemiopsis leidy	Capisaspora owczarzaki Capisaspora owczarzaki Sapingoeca rosetta Monosyga brevicolis Leucosolenia complicata	Cordinatory in the manage potential in Chrymosphaera perkinsii Ighthyophonus hoferi Ighthyophonus hoferi Creolimax fragrantissima Sphaeroforma arctica	Usiliago maydis "" Copinfossis cinera ("Copinfossis cinera ("Cryptococus neolormans Saccharormyces cerevisiae "Tuber melanosporum Neurospora crissa cinera ("Corpleoscocial and "Corpleoscocial") ("Corpleoscocial") ("Corpleo	Confightic portional us Coemansia recentaria Coemansia recentaria Coemansia recentaria Coemansia recentaria Rhizopuls delemaniana Rhizopuls delemaniana Rhizopuls delemaniana Rhizopuls delemaniana Rhizopuls delemaniana Rhizopuls recentariana Rhizopuls recentariana Rhizopuls recentaria	Rozella allomycis Catenaria anguillulae Allomyces macrogynus Spzellomyces puricatus Barrachodyrytum dendrobatidis Piromyces sp£2, Gonabodva boillera	rygsula biloima Thecamonas trahens Fonticula alba	Acanhanoeba castellarii Mastiganoeba talamuth Mastiganoeba talamuth Casenderia fasciculata Leterostelium album Tieghernostelium lactum Dictyostelium discoldeum	Nutomonas longa Mantamonas plastica Diphyliela rotans Rigifila ramosa	Malawimonas jäkobiformis Malawimonas californiana Fabomonas tropica Planomonas micra Ancyromonas sigmoides	wimulus gurtatus Arabidopšis thaliana Meteora sp. Gefionella okellyi (strain 249)	Physicomirella patens Selagnella moellendorffil Azolla filiouloides Salvina cuculitata Amborella ticriopoda Sorgium bicolo Bardypodium distardyon Andirela accerulae	Chlamydomonas reinhardtii Klebsormidium nitens Chara braunii Marchartia polymorpha Sphagnum fallas	Micromonas pusilla Ostreococcus tauri Chlorella variabilis Coccomy, as subellipsoidea Caulerpa lenillilera Ulya mutabilis	Cyanophora paradoxa Cyanidioschyzon merolae Porphyradium purpureum Porphyra umphilicalis Chondrus crispus Gracilarropsis choroda	Guillardia theta Goniomonas avonlea	Schzochyflum agglegalum Carron ag a pal asladica Dhydhyflora infestans Dhydhyflora infestans Namocholoropsis gastina Cadosphon okaffuranus Echcarpus si kilosus Echcarpus si kilosus Phalassisoria pesudonani Phalassisoria pesudonani	Plasmodum diciparum Plasmodum diciparum Aplanochytrium kerguelense Aurantiochytrium limadrium Hondaea lermentaligana	Oyurioba trifaliax Jedrahymena thermophila Petanberjum terraureila Benbodhamu murdeadratcum Benbodhamu murdeadratcum Berkinsus marinus Chromera veila Chromera veila Emerija dareila ar	Plasmodiophora brassicae Bigelowiella natans Réticulomyxa filosa	Spironeria inducileațiii Hemimastix kukwesijik Pavlovales sp. CCMP2436 Chrysochiomulina tobin Emilania hukwia	Boddo saitanis	Jackba biptaminnsis Jackba biptaminnsis Seo lamannas sa Reclinomonas americana Andaluda godovi Sivyjella infariorieta Sivyjella infariorieta Leijonnonas calingorieta majori Belamana majori Belamana majori	Kpferlia bialata Galardia lambila Carpedermonas membranifera Trichomonas vaginalis	

PTIP.HG4.0, REV1 (0 similar OGs)

Echiolococus indiciocularis Inquila aratira Inquila aratira Phofornis aratiralis Volceparmus geniculatus Hacidolaria la dousta Castalistica da	Mnemiopsis leidyi Trichoplax adhaerens	Leucosclenia complicata Svono ruliatum Oscarelia carmela Ephydatia muelleri Telfiya wilhelma Telfiya wilhelma Amphimedon queenslandica	Salpingoeca rosetta Monosiga brevicollis	Ministeria vibrans Capsaspora owczarzaki	Chromosphaera perkinsii Ichthyophonus hoferi Creolimax fragrantissima Sphaeroforma arctica	Corallochytrium limacisporum	Coprinopsis cinerea Cryptococcus neoformans Saccharomycas cerevisiae Liber melanosporum Mauricspora crassa Schizosaccharomyces pombe	All	Commansia reversa Coemansia reversa Umbelopsis ramanniana Rhizopus delemar Micor riccipalloidos	pizeliomyces punctatus Batrachochyrium dendrobatidis Piromyces \$pE2 Gonapodya prolifer	Rozella allomycis Catenaria anquillulae Allomyces macrogynus	Thecamonas trahens Fonticula alba	Pygsuia biforma	Planoprostelium fungiyorum Acanthamoeba aselellarii Wastigamoeba balamuthi Carenoebara Isaschutata Beterostelium bucum Dictyostelium discoudeum	Mantamonas plastica Diphylleia rotans Rigifila ramosa	Plabomonas tropica Planomonas micra Ancyromonas sigmoides Nutomonas longa	Gefionella okellyi (strain 249) Malawimonas jakobiformis Malawimonas californiana	Meteora sp.	Sorghum bicoloi Brachypodium distachyon Brachypodium distachyon Argunda distantia Mimulus guttatus Argunda distantia	Sefagnella moéllendorffii Azolla filiculoides Salvinia cucullata Amborella trichopoda	Kebsomindium nitens Chara braunii Marchantia polymorpha Sphagnum fallax PhysComittella patens	Volvox Carteri Chlamydomonas reinhardtii	Micromonas pusilia Ostreococcus Isuri Chlorella Variabilis Coccomyka subellipsoidea Caulerpa lentilifera	Cyanidoschyzon merolae Popphyridium purpureum Popphyra umbilicalis Chordrus crispus Gracilariopsis chorda	Cyanophora paradoxa

PTIP.HG4.0 | REV1

PTIP.HG5.0, LIG4 (0 similar OGs)

PTIP.HG5.0 | LIG4

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uroides sculpturat	arieor	Phoronis australis Notospermus geniculatus Helobdella robusta	stosoma r noccocus lla anatin	Acropora digitifera Exalptasia pallida Nematostella vectensis	Aurelia aurita Clytia hemisphaerica Hydra vulgaris Stylophora pistillata	Trichoplax adhaerens Morbakka virulenta	Mnemiopsis leidyi	Oscarella carmela Ephydatta muelleri Tethya wilhelma Amphimedon queenslandio	Leucosolenia complicata	ngoeca rosetta bsida brevicollis	Ministeria vibrans	Chromosphaera perkinsii Ichthyophonus hoferi Creolimax fragrantissima Sphaeroforma arctica	Corallochytrium limacispori		Coprinopsis cinerea Cryptococcus neoformans	Phycomyces blakesleeanu Phycomyces blakesleeanu Rhizophagus irregularis Mortierella elongata	Umbelopsis ramanniana Rhizopus delemar Mucor circinelloides	Gonapodya prolifera Conidiobolus coronatus	Catenaria anguillulae Allomyces macrogynus Spizellomyces punctatus Batrachochytrium dendrob:	Rozella allomycis	· 🛪	Pygsuia biforma	Acanthamoeba castellani Mastigamoeba balamuthi Cavenderia fasciculata Heterostelium album Tieghemostelium lacteum Dictyostelium discoldeum	₫.	Mantamonas plastica	Fabomonas tropica Planomonas micra Ancyromonas sigmoides	Gefionella okellyi (strain 24 Malawimonas jakobiformis Malawimonas californiana	Arabidopsis thaliana Meteora sp	Sorghum bicolor Brachypodium distachyon Aquilegia coerulea	Azolla filiculoides Salvinia cucullata Amborella frichopoda	Marchantia polymorpha Sphagnum fallax Physiomitrella patens	S Z	Ostreococous tauri Chiorella variabilis Chorella variabilis Coccomyxa subellipsoidea Caulerpa lentilifera Ulva mutabilis Volvox carteri Chlamydromonas reinhardtii	Micromonas pusilla	Cyanidioschyzon merolae Porphyridium purpureum Porphyra umbilicalis Chondrus crispus	of de	Guillardia theta	Amnochioropsis gadiana Qannochioropsis gadiana Qadosiphon okamuranus Edocaripus siliculosus Thalassiosira pseudonana Phaeodactylum tricornutum Aurecoscidus anophaeeffere	Saprolegnia parasitica Saprolegnia parasitica Albugo laibachii Phytophthora infestans	Hondaea fermentalgiana
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PTIP.HG8.0, DNTT (0 similar OGs)

PTIP.HG8.0 | DNTT

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