

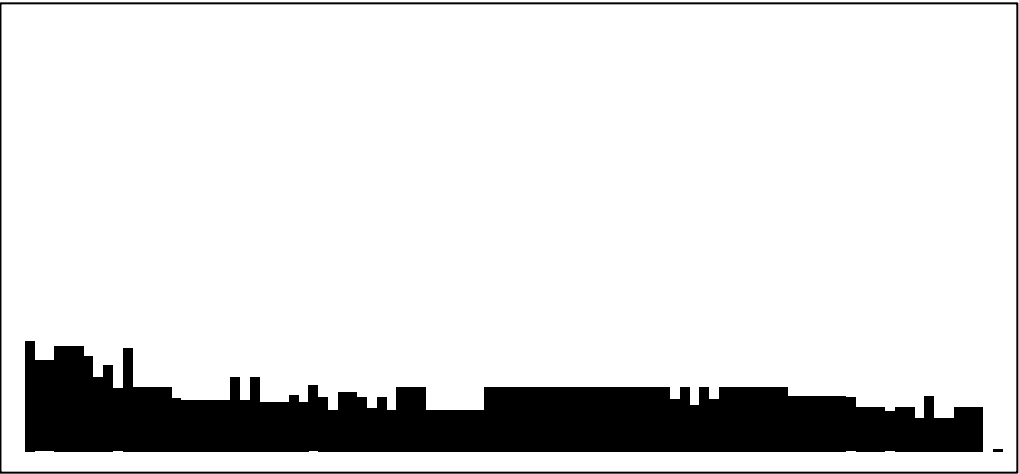
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Guestphalinus sp. PDW–2010

Lumbriculidae

Lumbriculida

85.19



Guestphalinus sp. PDW–2010 isolate CE865 cytochrom	GU592303	85.19	99.54	1.33073e–61	Lumbriculida	Lumbriculidae	Guestphalinus sp. PDW–2010
Haplotaxis gordioides mitochondrial partial COI ge	LT598617	84.26	99.54	6.89335e–59	Haplotaxida	Enchytraeidae	Haplotaxis gordioides
Haplotaxis gordioides mitochondrial partial COI ge	LT598615	84.26	99.54	6.89335e–59	Haplotaxida	Enchytraeidae	Haplotaxis gordioides
Rhynchelmis tetratheca isolate CE586 cytochrome ox	GU592317	84.95	94.93	2.93113e–57	Lumbriculida	Lumbriculidae	Rhynchelmis tetratheca
Rhynchelmis tetratheca isolate CE322 cytochrome ox	GU592316	84.95	94.93	2.93113e–57	Lumbriculida	Lumbriculidae	Rhynchelmis tetratheca
Teleuscolex korotneffi typica mitochondrial partia	AJ577629	84.95	94.93	2.93113e–57	Lumbriculida	Lumbriculidae	Teleuscolex korotneffi typica
Lamprodrilus nigrescens cytochrome oxidase subunit	GU328643	84.47	94.93	3.57084e–56	Lumbriculida	Lumbriculidae	Lamprodrilus nigrescens
Fridericia sp. E2_281 mitochondrial partial COI ge	LN810248	83.49	97.7	4.35018e–55	Haplotaxida	Enchytraeidae	Fridericia sp. E2_281
Henlea perpusilla isolate CE853 cytochrome oxidase	GU902084	84.06	95.39	4.35018e–55	Haplotaxida	Enchytraeidae	Henlea perpusilla
Enchytraeus buchholzi isolate CE724 cytochrome oxi	GU902048	82.95	100	4.35018e–55	Haplotaxida	Enchytraeidae	Enchytraeus buchholzi
Henlea perpusilla voucher 430 cytochrome c oxidase	KR872332	84.85	91.24	1.51836e–54	Haplotaxida	Enchytraeidae	Henlea perpusilla
Aporrectodea rosea isolate RCAS4 cytochrome c oxid	KF441913	83.02	97.7	5.2996e–54	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RCAS3 cytochrome c oxid	KF441912	83.02	97.7	5.2996e–54	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RCAS2 cytochrome c oxid	KF441911	83.02	97.7	5.2996e–54	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RCAS1 cytochrome c oxid	KF441910	83.02	97.7	5.2996e–54	Haplotaxida	Lumbricidae	Aporrectodea rosea
Lumbricillus buelowi isolate CE891 cytochrome oxid	GU902087	82.49	100	5.2996e–54	Haplotaxida	Enchytraeidae	Lumbricillus buelowi
Aporrectodea rosea isolate RALZ2 cytochrome c oxid	KF441905	82.41	99.54	1.84974e–53	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RALZ1 cytochrome c oxid	KF441904	82.41	99.54	1.84974e–53	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RAIN1 cytochrome c oxid	KF441900	82.41	99.54	1.84974e–53	Haplotaxida	Lumbricidae	Aporrectodea rosea
Enchytraeus sp. BOLD:AAU1183 voucher BIOUG21887–F1	KT621339	82.41	99.54	1.84974e–53	Haplotaxida	Enchytraeidae	Enchytraeus sp. BOLD:AAU1183
Enchytraeus sp. BOLD:AAU1183 voucher BIOUG21887–F1	KT620111	82.41	99.54	1.84974e–53	Haplotaxida	Enchytraeidae	Enchytraeus sp. BOLD:AAU1183
Eisenia fetida isolate HAP–5 cytochrome oxidase su	KP236551	83.5	94.93	1.84974e–53	Haplotaxida	Lumbricidae	Eisenia fetida
Aporrectodea rosea isolate ArSpALZ1 cytochrome c o	JQ771762	82.41	99.54	1.84974e–53	Haplotaxida	Lumbricidae	Aporrectodea rosea
Lamprodrilus stigmatias mitochondrial partial COI	AJ577628	83.5	94.93	1.84974e–53	Lumbriculida	Lumbriculidae	Lamprodrilus stigmatias
Henlea similis voucher 685 cytochrome c oxidase su	KR872331	82.33	99.08	6.45623e–53	Enchytraeidae	Enchytraeidae	Henlea similis
Octolasion lacteum voucher 1701 cytochrome c oxida	JN869948	82.33	99.08	6.45623e–53	Haplotaxida	Lumbricidae	Octolasion lacteum
Octolasion lacteum voucher 1708 cytochrome c oxida	JN869949	82.33	99.08	6.45623e–53	Haplotaxida	Lumbricidae	Octolasion lacteum
Megascolecidae sp. DPEW51666 voucher EW–SJ–414 cyt	GU014032	82.63	98.16	6.45623e–53	Haplotaxida	Megascolecidae	Megascolecidae sp. DPEW51666
Octolasion lacteum isolate 5 cytochrome oxidase su	DQ092910	82.33	99.08	6.45623e–53	Haplotaxida	Lumbricidae	Octolasion lacteum
Aporrectodea rosea isolate RMOR5 cytochrome c oxid	KF441982	83.09	95.39	2.25345e–52	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RORO1 cytochrome c oxid	KF441933	82.55	97.7	2.25345e–52	Haplotaxida	Lumbricidae	Aporrectodea rosea
Enchytraeus sp. BOLD:AAU1183 voucher BIOUG20572–E0	KT622744	81.94	99.54	2.25345e–52	Haplotaxida	Enchytraeidae	Enchytraeus sp. BOLD:AAU1183
Phreodrilidae sp. P15 isolate G299 cytochrome c ox	KM206502	82.78	96.31	2.25345e–52	Haplotaxida	Phreodrilidae	Phreodrilidae sp. P15
Lumbricillus tuba isolate CE879 cytochrome oxidase	GU902091	82.78	96.31	2.25345e–52	Haplotaxida	Enchytraeidae	Lumbricillus tuba
Deinodrilus gorgon cytochrome c oxidase subunit I	HQ529284	82.55	97.7	2.25345e–52	Haplotaxida	Acanthodrilidae	Deinodrilus gorgon
Megascolecidae sp. DPEW70745 voucher EW–SJ–923 cyt	GU014120	82.03	100	2.25345e–52	Haplotaxida	Megascolecidae	Megascolecidae sp. DPEW70745
Lumbriculus variegatus isolate CE1101 cytochrome o	FJ639285	82.55	97.7	2.25345e–52	Lumbriculida	Lumbriculidae	Lumbriculus variegatus
Enchytraeus buchholzi cytochrome oxidase subunit I	KX348269	81.94	99.54	7.8653e–52	Haplotaxida	Enchytraeidae	Enchytraeus buchholzi
Aporrectodea rosea isolate RMOR4 cytochrome c oxid	KF441981	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RMOR2 cytochrome c oxid	KF441980	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RMOR1 cytochrome c oxid	KF441979	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RLOP2 cytochrome c oxid	KF441965	81.94	99.54	7.8653e–52	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RFAR2 cytochrome c oxid	KF441932	81.94	99.54	7.8653e–52	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RFAR1 cytochrome c oxid	KF441931	81.94	99.54	7.8653e–52	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RATE4 cytochrome c oxid	KF441909	81.94	99.54	7.8653e–52	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RATE2 cytochrome c oxid	KF441908	81.94	99.54	7.8653e–52	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RATE1 cytochrome c oxid	KF441907	81.94	99.54	7.8653e–52	Haplotaxida	Lumbricidae	Aporrectodea rosea
Eisenia fetida isolate HAP–56 cytochrome oxidase s	KP236582	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate HAP–55 cytochrome oxidase s	KP236581	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate HAP–21 cytochrome oxidase s	KP236559	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate HAP–20 cytochrome oxidase s	KP236558	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate HAP–19 cytochrome oxidase s	KP236557	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate HAP–18 cytochrome oxidase s	KP236556	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate HAP–17 cytochrome oxidase s	KP236555	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate HAP–16 cytochrome oxidase s	KP236554	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate HAP–9 cytochrome oxidase su	KP236552	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate HAP–7 cytochrome oxidase su	KP236550	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate HAP–6 cytochrome oxidase su	KP236549	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate HAP–5 cytochrome oxidase su	KP236548	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate HAP–4 cytochrome oxidase su	KP236547	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate HAP–2 cytochrome oxidase su	KP236545	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate HAP–1 cytochrome oxidase su	KP236544	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate L_Ef33M– cytochrome oxidase	KM823554	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate L_Ef24M+ cytochrome oxidase	KM823553	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate L–Ef17 cytochrome oxidase s	KC788588	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate L–Ef8 cytochrome oxidase su	KC788580	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Aporrectodea caliginosa L1 voucher EW–ECO–0290 cyt	JQ908771	82.46	97.24	7.8653e–52	Haplotaxida	Lumbricidae	Aporrectodea caliginosa L1
Eisenia fetida isolate E0185 cytochrome oxidase su	JX531571	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Megascolecidae sp. DPEW51666 voucher EW–SJ–415 cyt	GU014033	82.16	98.16	7.8653e–52	Haplotaxida	Megascolecidae	Megascolecidae sp. DPEW51666
Lumbricidae sp. DPEW12969 voucher EW–SJ–616 cytoch	GU013880	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Lumbricidae sp. DPEW12969
Aporrectodea caliginosa L1 voucher EW–ECO–0038 cyt	GU013824	82.46	97.24	7.8653e–52	Haplotaxida	Lumbricidae	Aporrectodea caliginosa L1
Eisenia fetida strain Ef2 cytochrome c oxidase sub	FJ214216	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Lamprodrilus polytoreutus mitochondrial partial CO	AJ577618	83.01	94.93	7.8653e–52	Lumbriculida	Lumbriculidae	Lamprodrilus polytoreutus
Eisenia fetida voucher 06–268 cytochrome c oxidase	EF077595	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida voucher 06–267 cytochrome c oxidase	EF077594	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida voucher 06–266 cytochrome c oxidase	EF077593	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida voucher MPLe0030 cytochrome oxidase	AY874516	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida voucher MPLe0029 cytochrome oxidase	AY874515	83.01	94.93	7.8653e–52	Haplotaxida	Lumbricidae	Eisenia fetida
Aporrectodea rosea isolate ROHB2 cytochrome c oxid	KF441993	82.61	95.39	2.74526e–51	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate ROHB1 cytochrome c oxid	KF441992	82.61	95.39	2.74526e–51	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RORD3 cytochrome c oxid	KF441937	82.61	95.39	2.74526e–51	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RORD1 cytochrome c oxid	KF441936	82.61	95.39	2.74526e–51	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RORD2 cytochrome c oxid	KF441935	82.61	95.39	2.74526e–51	Haplotaxida	Lumbricidae	Aporrectodea rosea
Aporrectodea rosea isolate RORD4 cytochrome c oxid	KF441934	82.61	95.39	2.74526e–51	Haplotaxida	Lumbricidae	Aporrectodea rosea
Eisenia fetida isolate HAP–58 cytochrome oxidase s	KP236584	82.52	94.93	2.74526e–51	Haplotaxida	Lumbricidae	Eisenia fetida
Lumbriculus variegatus mitochondrial partial COI g	LN810269	82.08	97.7	2.74526e–51	Lumbriculida	Lumbriculidae	Lumbriculus variegatus
Lumbricus rubellus isolate WEM.01_B cytochrome oxi	KP642097	82.08	97.7	2.74526e–51	Haplotaxida	Lumbricidae	Lumbricus rubellus
Lumbricus rubellus isolate GLF.20_B cytochrome oxi	KP642096	82.08	97.7	2.74526e–51	Haplotaxida	Lumbricidae	Lumbricus rubellus
Octolasion tyrtaeum isolate E0101 cytochrome oxida	JX531567	81.86	99.08	2.74526e–51	Haplotaxida	Lumbricidae	Octolasion tyrtaeum
Lumbricus rubellus L1 voucher EW–ECO–0580 cytochro	HQ024539	82.08	97.7	2.74526e–51	Haplotaxida	Lumbricidae	Lumbricus aff. rubellus L1
Lumbricus rubellus L1 voucher EW–ECO–0579 cytochro	HQ024538	82.08	97.7	2.74526e–51	Haplotaxida	Lumbricidae	Lumbricus aff. rubellus L1
Thalassodrilides bruneti isolate CE79 cytochrome o	GU902113	81.57	100	2.74526e–51	Haplotaxida	Tubificidae	Thalassodrilides bruneti
Marionina cf. riparia PDW–2010 isolate CE1127 cyto	GU902096	82.61	95.39	2.74526e–51	Haplotaxida	Enchytraeidae	Marionina cf. riparia PDW–2010
Rhynchelmis yakimorum isolate CE1086 cytochrome ox	GU592323	81.57	100	2.74526e–51	Lumbriculida	Lumbriculidae	Rhynchelmis yakimorum
Rhynchelmis utahensis isolate CE496 cytochrome oxi	GU592321	81.57	100	2.74526e–51	Lumbriculida	Lumbriculidae	Rhynchelmis utahensis
Lumbricus sp. BOLD:AAB1519 voucher EW–ECO–0371 cyt	GU206197	82.08	97.7	2.74526e–51	Haplotaxida	Lumbricidae	Lumbricus sp. BOLD:AAB1519
Lumbricus rubellus L1 voucher EW–ECO–0267 cytochro	GU206191	82.08	97.7	2.74526e–51	Haplotaxida	Lumbricidae	Lumbricus aff. rubellus L1
Lumbricus rubellus L1 voucher EW–ECO–0268 cytochro	GU206190	82.08	97.7	2.74526e–51	Haplotaxida	Lumbricidae	Lumbricus aff. rubellus L1
Eisenia fetida isolate HAP–59 cytochrome oxidase s	KP236585	79.61	94.93	1.16731e–49	Haplotaxida	Lumbricidae	Eisenia fetida
Eisenia fetida isolate HAP–52 cytochrome oxidase s	KP236578	80.1	94.93	4.96355e–48	Haplotaxida	Lumbricidae	Eisenia fetida