

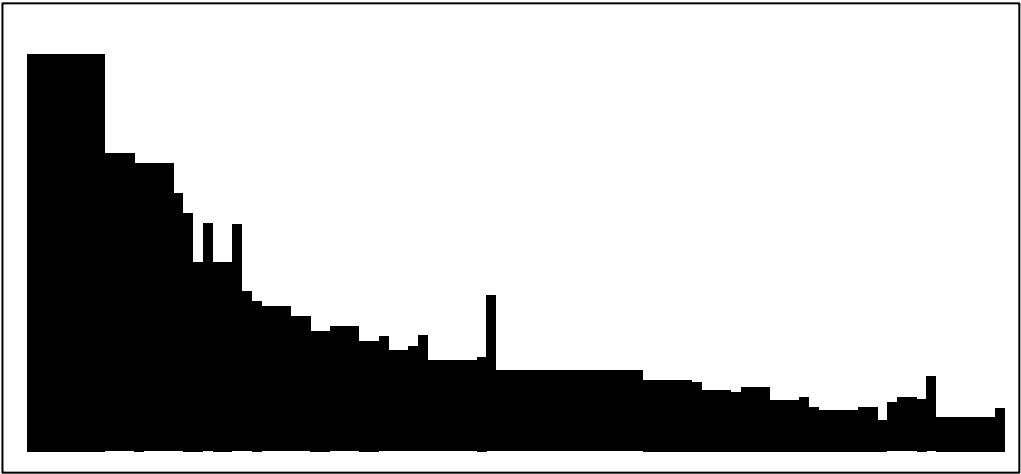
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Helobdella stagnalis

Glossiphoniidae

Rhynchobdellida

98.61



Helobdella stagnalis isolate 10688 cytochrome c ox	KT363868	98.61	100	1.08338e-100	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis
Helobdella stagnalis isolate 10689 cytochrome c ox	KT382520	98.61	100	1.08338e-100	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis
Helobdella stagnalis isolate 10690 cytochrome c ox	KT382519	98.61	100	1.08338e-100	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis
Helobdella stagnalis isolate 10687 cytochrome c ox	KT382518	98.61	100	1.08338e-100	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis
Helobdella stagnalis isolate 10686 cytochrome c ox	KT382517	98.61	100	1.08338e-100	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis
Helobdella stagnalis voucher G23 cytochrome c oxid	KM095095	98.61	100	1.08338e-100	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis
Helobdella stagnalis isolate Egländ cytochrome c o	AF329041	98.61	100	1.08338e-100	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis
Helobdella stagnalis cytochrome c oxidase subunit	AF116018	98.61	100	1.08338e-100	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis
Helobdella modesta voucher BIOUG00690-D02 cytochro	KM612131	93.95	99.54	1.41043e-86	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Helobdella modesta voucher BIOUG00690-D03 cytochro	KM612054	93.95	99.54	1.41043e-86	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Helobdella modesta voucher BIOUG00690-D01 cytochro	KM612015	93.95	99.54	1.41043e-86	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Helobdella modesta voucher BIOUG00690-D04 cytochro	KM612052	93.52	100	4.92288e-86	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Helobdella modesta voucher 08BBANN-103 cytochrome	KM612200	93.49	99.54	1.71825e-85	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Helobdella modesta voucher 08BBANN-125 cytochrome	KM612072	93.49	99.54	1.71825e-85	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Helobdella modesta voucher 08BBANN-102 cytochrome	KM611981	93.49	99.54	1.71825e-85	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Helobdella modesta from USA cytochrome c oxidase s	AF329040	92.09	99.54	3.7847e-81	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Helobdella stagnalis isolate Echo Lake Pa. cytochr	JN692267	91.18	94.44	4.31834e-74	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis
Helobdella stagnalis voucher BIOUG00690-G07 cytoch	KM612173	88.89	100	1.83621e-72	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis
Helobdella stagnalis isolate York Pa. cytochrome o	JN692268	90.69	94.44	1.83621e-72	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis
Helobdella modesta isolate HW2 cytochrome oxidase	HQ179854	88.89	100	1.83621e-72	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Helobdella modesta isolate HW1 cytochrome oxidase	HQ179853	88.89	100	1.83621e-72	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Helobdella stagnalis isolate Oregon cytochrome oxi	JN692266	90.64	93.98	6.40899e-72	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis
Helobdella sp. 5E-20224-1 cytochrome oxidase subun	KF000158	87.5	100	4.04451e-68	Rhynchobdellida	Glossiphoniidae	Helobdella sp. 5E-20224-1
Helobdella sp. 20118-1Gh cytochrome oxidase subuni	KF000141	87.04	100	4.92723e-67	Rhynchobdellida	Glossiphoniidae	Helobdella sp. 20118-1Gh
Helobdella simplex voucher L4P231_Gullo cytochrome	KF683196	86.79	98.15	7.31265e-65	Rhynchobdellida	Glossiphoniidae	Helobdella simplex
Helobdella paranensis cytochrome c oxidase subunit	AF329037	86.79	98.15	7.31265e-65	Rhynchobdellida	Glossiphoniidae	Helobdella paranensis
Helobdella paranensis cytochrome c oxidase subunit	AF116019	86.79	98.15	7.31265e-65	Rhynchobdellida	Glossiphoniidae	Helobdella paranensis
Helobdella simplex voucher LTT232_Gullo cytochrome	KF683197	86.32	98.15	3.10942e-63	Rhynchobdellida	Glossiphoniidae	Helobdella simplex
Helobdella simplex voucher LOP232_Gullo cytochrome	KF683195	86.32	98.15	3.10942e-63	Rhynchobdellida	Glossiphoniidae	Helobdella simplex
Helobdella stagnalis 1 AOF-2010 isolate Hstsg2 cyt	HQ179859	85.65	100	1.08529e-62	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis 1 AOF-2010
Helobdella stagnalis 1 AOF-2010 isolate Hstag cyto	HQ179858	85.65	100	1.08529e-62	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis 1 AOF-2010
Helobdella bowermani voucher HOregon_NLFF010 cytoch	KF683194	85.85	98.15	3.78805e-62	Rhynchobdellida	Glossiphoniidae	Helobdella bowermani
Helobdella bowermani voucher HOregon_NLFF03H cytoch	KF683193	85.85	98.15	3.78805e-62	Rhynchobdellida	Glossiphoniidae	Helobdella bowermani
Helobdella bowermani voucher HOregon_NLFF02T cytoch	KF683192	85.85	98.15	3.78805e-62	Rhynchobdellida	Glossiphoniidae	Helobdella bowermani
Glossiphoniidae sp. BOLD: AAN6509 voucher 08BBANN-1	KM612127	85.19	100	1.32216e-61	Rhynchobdellida	Glossiphoniidae	Glossiphoniidae sp. BOLD: AAN6509
Helobdella atli isolate HSX cytochrome oxidase sub	HQ179852	85.19	100	1.32216e-61	Rhynchobdellida	Glossiphoniidae	Helobdella atli
Helobdella californica cytochrome c oxidase subuni	HQ686307	85.38	98.15	1.61072e-60	Helobdella californica	Glossiphoniidae	Helobdella californica
Helobdella stagnalis 1 AOF-2010 isolate H001 cytoc	HQ179856	84.72	100	5.62196e-60	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis 1 AOF-2010
Helobdella stagnalis 1 AOF-2010 isolate StagQ cyto	HQ179855	84.72	100	5.62196e-60	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis 1 AOF-2010
Helobdella atli isolate Hspl cytochrome oxidase su	HQ179850	84.91	98.15	1.96226e-59	Rhynchobdellida	Glossiphoniidae	Helobdella atli
Helobdella stagnalis isolate serendipitous cytochr	JN692265	85.44	95.37	6.84895e-59	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis
Helobdella stagnalis 1 AOF-2010 isolate HstagZA cy	HQ179860	84.26	100	6.84895e-59	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis 1 AOF-2010
Helobdella stagnalis 1 AOF-2010 isolate HS149 cyto	HQ179857	84.26	100	6.84895e-59	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis 1 AOF-2010
Helobdella atli isolate Hsnp cytochrome oxidase s	HQ179851	84.26	100	6.84895e-59	Rhynchobdellida	Glossiphoniidae	Helobdella atli
Helobdella octatestisaca voucher SLD0010A cytochro	FJ000342	84.26	100	6.84895e-59	Rhynchobdellida	Glossiphoniidae	Helobdella octatestisaca
Helobdella triserialis isolate CASF cytochrome c o	DQ995303	84.26	100	6.84895e-59	Rhynchobdellida	Glossiphoniidae	Helobdella triserialis
Helobdella stagnalis voucher E100510-90 cytochrome	KM196604	84.43	98.15	8.34373e-58	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis
Helobdella stagnalis isolate Montana cytochrome ox	JN692264	87.3	87.5	8.34373e-58	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis
Helobdella europaea isolate 10 cytochrome c oxidas	KC904242	83.8	100	2.91225e-57	Rhynchobdellida	Glossiphoniidae	Helobdella europaea
Helobdella europaea isolate 7 cytochrome c oxidase	KC904241	83.8	100	2.91225e-57	Rhynchobdellida	Glossiphoniidae	Helobdella europaea
Helobdella triserialis cytochrome c oxidase subuni	KC771417	83.8	100	2.91225e-57	Rhynchobdellida	Glossiphoniidae	Helobdella triserialis
Helobdella socimulcensis isolate Hcong cytochrome	HQ179871	83.8	100	2.91225e-57	Rhynchobdellida	Glossiphoniidae	Helobdella socimulcensis
Helobdella socimulcensis isolate Htl cytochrome ox	HQ179869	83.8	100	2.91225e-57	Rhynchobdellida	Glossiphoniidae	Helobdella socimulcensis
Helobdella socimulcensis isolate fusca cytochrome	HQ179868	83.8	100	2.91225e-57	Rhynchobdellida	Glossiphoniidae	Helobdella socimulcensis
Helobdella socimulcensis isolate Gloss cytochrome	HQ179867	83.8	100	2.91225e-57	Rhynchobdellida	Glossiphoniidae	Helobdella socimulcensis
Helobdella europaea voucher SLD0017A cytochrome ox	FJ000349	83.8	100	2.91225e-57	Rhynchobdellida	Glossiphoniidae	Helobdella europaea
Helobdella octatestisaca voucher L00075A cytochrom	FJ000343	83.8	100	2.91225e-57	Rhynchobdellida	Glossiphoniidae	Helobdella octatestisaca
Helobdella europaea isolate CAUCB cytochrome c oxi	DQ995304	83.8	100	2.91225e-57	Rhynchobdellida	Glossiphoniidae	Helobdella europaea
Helobdella europaea isolate CAGA-2 cytochrome c ox	DQ995298	83.8	100	2.91225e-57	Rhynchobdellida	Glossiphoniidae	Helobdella europaea
Helobdella europaea isolate CAGA-1 cytochrome c ox	DQ995297	83.8	100	2.91225e-57	Rhynchobdellida	Glossiphoniidae	Helobdella europaea
Helobdella europaea from New Zealand cytochrome c	AY856049	83.8	100	2.91225e-57	Rhynchobdellida	Glossiphoniidae	Helobdella europaea
Helobdella europaea from South Africa cytochrome c	AY856048	83.8	100	2.91225e-57	Rhynchobdellida	Glossiphoniidae	Helobdella europaea
Helobdella europaea from Australia cytochrome c ox	AF329052	83.8	100	2.91225e-57	Rhynchobdellida	Glossiphoniidae	Helobdella europaea
Helobdella socimulcensis isolate HtO2 cytochrome o	HQ179866	83.33	100	3.54785e-56	Rhynchobdellida	Glossiphoniidae	Helobdella socimulcensis
Helobdella melananus voucher SLD0002A1 cytochrome	FJ000353	83.33	100	3.54785e-56	Rhynchobdellida	Glossiphoniidae	Helobdella melananus
Helobdella europaea cytochrome c oxidase subunit I	AY856047	83.33	100	3.54785e-56	Rhynchobdellida	Glossiphoniidae	Helobdella europaea
Helobdella nununununojensis note from Tojoloque cy	AF329047	83.33	100	3.54785e-56	Rhynchobdellida	Glossiphoniidae	Helobdella nununununojensis
Helobdella transversa cytochrome c oxidase subunit	AF329044	83.33	100	3.54785e-56	Rhynchobdellida	Glossiphoniidae	Helobdella transversa
Helobdella elongata cytochrome c oxidase subunit 1	AF329045	83.26	99.54	1.23832e-55	Rhynchobdellida	Glossiphoniidae	Helobdella elongata
Helobdella sp. Xochimilco isolate MEX cytochrome c	DQ995311	82.87	100	1.50858e-54	Rhynchobdellida	Glossiphoniidae	Helobdella sp. Xochimilco
Helobdella europaea cytochrome c oxidase subunit I	AY576008	82.87	100	1.50858e-54	Rhynchobdellida	Glossiphoniidae	Helobdella europaea
Helobdella papillata isolate black-tipped from USA	AF329043	82.87	100	1.50858e-54	Rhynchobdellida	Glossiphoniidae	Helobdella papillata
Helobdella elongata isolate HeO2 cytochrome oxidas	HQ179863	82.79	99.54	5.26547e-54	Rhynchobdellida	Glossiphoniidae	Helobdella elongata
Helobdella stagnalis 2 AOF-2010 isolate HSH cytoch	HQ179862	83.02	98.15	5.26547e-54	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis 2 AOF-2010
Helobdella stagnalis 2 AOF-2010 isolate HETEH cyto	HQ179861	83.02	98.15	5.26547e-54	Rhynchobdellida	Glossiphoniidae	Helobdella stagnalis 2 AOF-2010
Helobdella sorojchi isolate striped variety cytoch	AF329049	83.02	98.15	5.26547e-54	Rhynchobdellida	Glossiphoniidae	Helobdella sorojchi
Helobdella papillata voucher YPM:58429 cytochrome	KP176607	82.41	100	1.83783e-53	Rhynchobdellida	Glossiphoniidae	Helobdella papillata
Helobdella papillata isolate colorless from USA cy	AF329042	82.41	100	1.83783e-53	Rhynchobdellida	Glossiphoniidae	Helobdella papillata
Helobdella lineata cytochrome c oxidase subunit 1	AF329039	82.41	100	1.83783e-53	Rhynchobdellida	Glossiphoniidae	Helobdella lineata
Helobdella bolivianita cytochrome c oxidase subuni	AF329053	82.55	98.15	2.23893e-52	Rhynchobdellida	Glossiphoniidae	Helobdella bolivianita
Helobdella sorojchi isolate speckled variety cytoc	AF329050	82.08	98.15	2.23893e-52	Rhynchobdellida	Glossiphoniidae	Helobdella sorojchi
Helobdella robusta isolate CASA-4 cytochrome c oxi	DQ995301	81.94	100	7.81465e-52	Rhynchobdellida	Glossiphoniidae	Helobdella robusta
Helobdella robusta isolate CASA-3 cytochrome c oxi	DQ995300	81.94	100	7.81465e-52	Rhynchobdellida	Glossiphoniidae	Helobdella robusta
Helobdella nununununojensis note from Pusu Punku c	AF329048	81.94	100	7.81465e-52	Rhynchobdellida	Glossiphoniidae	Helobdella nununununojensis
Helobdella papillata cytochrome c oxidase subunit	AF329046	81.94	100	7.81465e-52	Rhynchobdellida	Glossiphoniidae	Helobdella papillata
Helobdella modesta voucher 2MO1WCHC cytochrome c o	JF319994	82.08	98.15	2.72758e-51	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Helobdella modesta voucher WMO1CO cytochrome c oxi	JF319988	82.08	98.15	2.72758e-51	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Marionina sp. F LM-2012 clone LM130 cytochrome c o	JN799927	81.48	100	9.52019e-51	Haplotaxida	Enchytraeidae	Marionina sp. F LM-2012
Helobdella ringueleti cytochrome c oxidase subunit	AF329051	82.3	96.76	9.52019e-51	Rhynchobdellida	Glossiphoniidae	Helobdella ringueleti
Haementeria tuberculifera cytochrome c oxidase sub	AF329036	82.52	95.37	9.52019e-51	Rhynchobdellida	Glossiphoniidae	Haementeria tuberculifera
Placobdella transluscens cytochrome c oxidase subu	AY047328	82.52	95.37	9.52019e-51	Rhynchobdellida	Glossiphoniidae	Placobdella transluscens
Fridericia galba isolate CE730 cytochrome oxidase	GU902063	82.44	94.91	3.32287e-50	Haplotaxida	Enchytraeidae	Fridericia galba
Haementeria tuberculifera isolate Pe15 cytochrome	JN850910	83.51	89.81	1.1598e-49	Rhynchobdellida	Glossiphoniidae	Haementeria tuberculifera
Helobdella modesta voucher 4MO2WCHC cytochrome c o	JF319996	81.6	98.15	1.1598e-49	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Helobdella modesta voucher 3ELCOH cytochrome c oxi	JF319991	81.6	98.15	1.1598e-49	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Helobdella modesta voucher 4ELCOH cytochrome c oxi	JF319992	81.6	98.15	1.1598e-49	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Helobdella modesta voucher 2ELCOH cytochrome c oxi	JF319990	81.6	98.15	1.1598e-49	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Helobdella modesta voucher 1ELCOH cytochrome c oxi	JF319989	81.6	98.15	1.1598e-49	Rhynchobdellida	Glossiphoniidae	Helobdella modesta
Placobdella biannulata cytochrome c oxidase subuni	AF116021	81.6	98.15	1.1598e-49	Rhynchobdellida	Glossiphoniidae	Placobdella biannulata
Placobdella transluscens cytochrome c oxidase subu	JX122778	82.04	95.37	4.04809e-49	Rhynchobdellida	Glossiphoniidae	Placobdella transluscens