

Supplementary table 1

Species	Strain	Locality	COX1	84J03	1201	ATP-F	CK1	FAA	Opsin	Pgi	PKA	SuTr
<i>N. longicornis</i>	NL_IV7	Utah (US)	EU746524	FJ158511	FJ158160	FJ158212	GQ336328	FJ158263	FJ158317	GQ336404	FJ158461	FJ158369
	NL_CA9304	California (US)	FJ158441	FJ158512	FJ158161	FJ158213	GQ336329	FJ158264	FJ158318	GQ336405	FJ158462	FJ158370
	NL_CA003270	California (US)	EU746520	FJ158513	FJ158162	FJ158214	GQ336330	FJ158265	FJ158319	GQ336406	FJ158463	FJ158371
	NL_IDB418A	Idaho (US)	EU746522	FJ158514	FJ158163	FJ158215	GQ336331	FJ158266	FJ158320	GQ336407	FJ158464	GQ336458
	NL_MN8510	Minnesota (US)	EU746525	FJ158515	FJ158164	FJ158216	GQ336332	FJ158267	GQ336392	GQ336408	FJ158465	FJ158372
	NL_MT013	Montana (US)	EU746526	FJ158516	FJ158165	FJ158217	GQ336333	FJ158268	FJ158322	GQ336409	FJ158466	FJ158373
	NL_NV202H	Idaho (US)	EU746527	FJ158517	FJ158166	FJ158218	GQ336334	FJ158269	FJ158323	GQ336410	FJ158467	GQ336455
	NL_STCA	California (US)	GQ336369	FJ158518	FJ158167	FJ158219	GQ336335	FJ158270	FJ158324	GQ336411	FJ158468	FJ158375
	NL_UT230A	Utah (US)	EU746530	GQ336301	FJ158168	FJ158220	GQ336336	FJ158271	FJ158325	GQ336411	FJ158469	FJ158380
	NL_PE18Bx5	Utah (US)	EU746529	FJ158519	FJ158169	FJ158221	GQ336337	FJ158272	FJ158326	GQ336412	FJ158470	FJ158376
	NL_PE18BX4	Utah (US)	EU746528	FJ158520	FJ158170	FJ158222	GQ336338	FJ158273	FJ158327	GQ336413	FJ158471	FJ158377
	NL_BTPE18Bx5	Utah (US)	EU746519	FJ158521	FJ158171	FJ158223	GQ336339	FJ158274	FJ158328	GQ336414	FJ158472	FJ158378
	NL_DWR16_25	Utah (US)	EU746521	FJ158522	FJ158172	FJ158224	GQ336340	FJ158275	FJ158329	GQ336415	FJ158473	FJ158379
	NL_IT218X2	New York (US)	EU746523	FJ158523	FJ158173	FJ158225	GQ336341	FJ158276	GQ336392	GQ336416	FJ158474	FJ158381
	NL_BCOK	British Columbia	GQ336370	GQ336302	GQ336310	GQ336320	GQ336342	GQ336385	GQ336393	GQ336417	GQ336445	GQ336457
	NL_BCWL	British Columbia	GQ336371	GQ336303	GQ336311	GQ336321	GQ336343	GQ336386	GQ336394	GQ336418	GQ336444	GQ336456
	NG_RV2X	Virginia (US)	EU746515	FJ158524	FJ158174	FJ158226	GQ336344	FJ158277	FJ158330	GQ336419	FJ158475	FJ158382
	NG_OH206D	Ohio(US)	EU746511	FJ158536	GQ336312	FJ158239	GQ336357	FJ158290	FJ158343	GQ336432	FJ158485	FJ158386
	NG_PA0203	Pennsylvania (US)	EU746512	FJ158525	FJ158175	FJ158227	GQ336345	FJ158278	GQ336395	GQ336420	FJ158476	FJ158383
	NG_VA201R	Virginia(US)	EU746516	FJ158526	FJ158176	FJ158228	GQ336346	FJ158279	FJ158332	GQ336421	GQ336446	FJ158384
	NG_PA233F	Pennsylvania (US)	EU746514	FJ158527	FJ158177	FJ158229	GQ336347	FJ158280	GQ336396	GQ336422	GQ336447	FJ158385
	NG_VA5	Virginia (US)	EU746517	FJ158528	FJ158178	FJ158230	GQ336348	FJ158281	FJ158334	GQ336423	GQ336448	FJ158387
	NG_NY6J	New York (US)	EU746508	FJ158529	FJ158179	FJ158231	GQ336349	FJ158282	FJ158335	GQ336424	FJ158477	FJ158388
	NG_VA7	Virginia (US)	GQ336372	FJ158530	FJ158180	FJ158232	GQ336350	FJ158283	FJ158336	GQ336425	FJ158478	FJ158389
	NG_VA7B	Virginia(US)	GQ336372	GQ336304	FJ158181	FJ158233	GQ336351	FJ158284	FJ158337	GQ336426	FJ158479	FJ158390
	NG_NY6A5	New York (US)	GQ336373	FJ158531	FJ158182	FJ158234	GQ336352	FJ158285	FJ158338	GQ336427	FJ158480	FJ158391
	NG_VA6	New York (US)	GQ336374	FJ158532	FJ158183	FJ158235	GQ336353	FJ158286	FJ158339	GQ336428	FJ158481	FJ158392
	NG_NY6B	New York (US)	GQ336375	FJ158533	FJ158184	FJ158236	GQ336354	FJ158287	GQ336397	GQ336429	FJ158482	FJ158393
	NG_NY6X	New York (US)	GQ336376	FJ158534	GQ336313	FJ158237	GQ336355	FJ158288	FJ158341	GQ336430	FJ158483	FJ158394
	NG_NY7B	New York (US)	GQ336377	FJ158535	FJ158185	FJ158238	GQ336356	FJ158289	FJ158342	GQ336431	GQ336449	FJ158395
	NO_NY11_03	Brewerton NY (USA)	EU746509	FJ158537	FJ158187	FJ158240	GQ336358	FJ158291	FJ158344	GQ336433	FJ158486	FJ158396
	NO_NY11_36	Brewerton NY (USA)	EU746510	FJ158538	FJ158188	FJ158241	GQ336359	FJ158292	FJ158345	GQ336434	FJ158487	FJ158397
NO_NY11_32	Brewerton NY (USA)	GQ336378	FJ158539	FJ158189	FJ158242	GQ336360	FJ158293	FJ158346	GQ336435	FJ158488	FJ158398	
NO_NY11_x1	Brewerton NY (USA)	GQ336378	FJ158540	FJ158190	FJ158243	GQ336361	FJ158294	FJ158347	GQ336436	FJ158489	FJ158399	
NO_NYBR6A	Brewerton NY (USA)	GQ336380	GQ336305	GQ336315	GQ336322	GQ336364	GQ336387	GQ336398	GQ336437	GQ336450	GQ336460	
NO_NYBR6B	Brewerton NY (USA)	GQ336381	GQ336306	GQ336316	GQ336323	GQ336365	GQ336388	GQ336399	GQ336438	GQ336451	GQ336459	
NO_NYBR6C	Brewerton NY (USA)	GQ336382	GQ336307	GQ336317	GQ336324	GQ336366	GQ336389	GQ336400	GQ336439	GQ336452	GQ336461	
NO_NY11_45	Brewerton NY (USA)	GQ336379	FJ158542	FJ158191	FJ158244	GQ336362	FJ158295	FJ158348	GQ336440	FJ158491	FJ158400	
NO_NY26_20	Brewerton NY (USA)	EU746507	FJ158541	GQ336314	FJ158245	GQ336363	FJ158296	FJ158349	GQ336441	FJ158490	FJ158401	
NO_NYSP1A	Springville NY (USA)	GQ336383	GQ336308	GQ336318	GQ336325	GQ336367	GQ336390	GQ336401	GQ336442	GQ336453	GQ336462	

<i>N. oneida</i>	NO_NYSP1C	Springville NY (USA)	GQ336384	GQ336309	GQ336319	GQ336326	GQ336368	GQ336391	GQ336402	GQ336443	GQ336454	GQ336463
	AsymCX	Leiden (Netherlands)	EU746534									
<i>N. vitripennis</i>	NV_R511	New York (USA)	EU746548	FJ158496	FJ158144	FJ158196	GQ336327	FJ158247	FJ158301	GQ336403	FJ158445	FJ158354