

Table S1: Library Preparation Reagents, Supplier and product code.

Reagent or Resource	Source	Product Code
QIAamp DNA Micro Kit	Qiagen	56304
SYBR safe	Fisher Scientific	S33102
10X Buffer Tango	Fisher Scientific	11541505
dNTP	Sigma-Aldrich	DNTP100-KT
ATP	Sigma-Aldrich	11140965001
T4 DNA Polymerase	New England Biolab	M0203S
T4 Polynucleotide Kinase	New England Biolab	M0201S
Min Elute PCR purification Kit	Qiagen	28006
T4 DNA Ligase	New England Biolab	M0202
PEG-4000	Sigma-Aldrich	1546569-1G
Bst 2.0 WarmStart DNA Polymerase	New England Biolab	M0538S
Accuprime Pfx DNA Polymerase	Fisher Scientific	12344024
Agencourt AMPure XP	Beckman Coulter	A63880
Tween20	Sigma-Aldrich	P9416
EDTA	Fisher Scientific	15575020
Tris-Cl pH8	Fisher Scientific	10259194
TE buffer	Sigma-Aldrich	93283-100mL
NaCl solution	Sigma-Aldrich	71386-1L

Table S2: Complete list of taxa included in the analysis

Code	Superfamily	Family	Genus	Species	NCBI accession	Type of data
NW_T143	Bombycoidea	Apatelodidae	Apatelodes	pithala	SRR1794084	Transcriptome
NW_G003	Bombycoidea	Bombycidae	Bombyx	mori	GCF_000151625.1	Genome
NW_T076	Bombycoidea	Saturniidae	Actias	luna	SRR1002974	Transcriptome
NW_T134	Bombycoidea	Saturniidae	Antheraea	yamamai	SRR1743839	Transcriptome
NW_T195	Bombycoidea	Saturniidae	Attacus	atlas	SRR1002994	Transcriptome
NW_T077	Bombycoidea	Saturniidae	Eacles	imperialis	SRR1299435	Transcriptome
NW_T131	Bombycoidea	Saturniidae	Rhodinia	newara	SRR1743843	Transcriptome
NW_T130	Bombycoidea	Saturniidae	Samia	ricini	SRR1743841	Transcriptome
NW_T078	Bombycoidea	Saturniidae	Therinia	lactucina	SRR1299418	Transcriptome
NW_T080	Bombycoidea	Sphingidae	Adhemarius	daphne	SRR1299394	Transcriptome
NW_T196	Bombycoidea	Sphingidae	Ceratomia	undulosa	SRR1002985	Transcriptome
NW_T197	Bombycoidea	Sphingidae	Darapsa	myron	SRR1002986	Transcriptome
NW_T081	Bombycoidea	Sphingidae	Enyo	lugubris	SRR1002983	Transcriptome
NW_T082	Bombycoidea	Sphingidae	Hemaris	diffinis	SRR1002987	Transcriptome
NW_G002	Bombycoidea	Sphingidae	Manduca	sexta	GCF_000262585.1	Genome
NW_T083	Bombycoidea	Sphingidae	Xylophanes	tersa	SRR1298384	Transcriptome
NW_T005	Calliduloidea	Callidulidae	Pterodecta	felderi	SRR1299369	Transcriptome
VT56	Calliduloidea	Callidulidae	Helicomitra	pulchra	SRR11799524	Genome
VT58	Calliduloidea	Callidulidae	Griveaudia	vieui	SRR11799526	Genome
NW_T108	Carposinoidea	Carposinidae	Carposina	sasakii	GADL00000000	Transcriptome
NW_T001	Choreutoidea	Choreutidae	Hemerophila	diva	SRR1005851	Transcriptome
NW_T006	Cossoidea	Castniidae	Synemon	plana	SRR1006158	Transcriptome
NW_T200	Cossoidea	Castniidae	Telchin	licus	SRR1204999	Transcriptome
NW_T049	Cossoidea	Cossidae	Culama	ANIC3	SRR1006166	Transcriptome
NW_T222	Cossoidea	Cossidae	Eogystia	hippophaecolus	SRR4409152	Transcriptome
NW_T007	Cossoidea	Cossidae	Givira	mucidus	SRR1006184	Transcriptome
NW_T008	Cossoidea	Cossidae	Morpheis	mathani	SRR1299214	Transcriptome
NW_T050	Cossoidea	Cossidae	Prionoxystus	robiniae	SRR1006187	Transcriptome

NW_T183	Cossoidea	Cossidae	Psychogena	miranda	SRR1006219	Transcriptome
NW_T052	Cossoidea	Cossidae	Spinulata	maruga	SRR1006227	Transcriptome
NW_T009	Cossoidea	Dudgeoneidae	Archaeoses	polygrapha	SRR1021600	Transcriptome
NW_T010	Cossoidea	Sesiidae	Podosesia	syringae	SRR1021623	Transcriptome
NW_T079	Cossoidea	Sesiidae	Vitacea	polistiformis	SRR1021630	Transcriptome
NW_T012	Drepanoidea	Cimeliidae	Axia	margarita	SRR1006157	Transcriptome
NW_T011	Drepanoidea	Doidae	Doa	Janzen01	SRR1021609	Transcriptome
NW_T054	Drepanoidea	Drepanidae	Cyclidia	substigmata	SRR1021608	Transcriptome
NW_T013	Drepanoidea	Drepanidae	Pseudothyatira	cymatophoroides	SRR1021621	Transcriptome
NW_T048	Gelechioidea	Depressariidae	Psilocorsis	reflexella	SRR1021624	Transcriptome
NW_T016	Gelechioidea	Depressariidae	Tonica	nigricostella	SRR1299773	Transcriptome
NW_T015	Gelechioidea	Elachistidae	Antaeotricha	schlaegeri	SRR1021598	Transcriptome
NW_T057	Gelechioidea	Gelechiidae	Dichomeris	punctidiscella	SRR1021607	Transcriptome
NW_T203	Gelechioidea	Gelechiidae	Pectinophora	gossypiella	SRR2225787; SRR2225788; SRR2225790	Transcriptome
NW_T125	Gelechioidea	Gelechiidae	Tuta	absoluta	SRR1721964	Transcriptome
NW_T066	Gelechioidea	Lecithoceridae	Thubana	sp.	SRR1300991	Transcriptome
NW_T014	Geometroidea	Epicopeiidae	Epicopeia	hainseii	SRR1021610	Transcriptome
NW_T017	Geometroidea	Geometridae	Biston	betularia	SRR1021599	Transcriptome
NW_T202	Geometroidea	Geometridae	Biston	suppressaria	SRR1777716	Transcriptome
NW_T058	Geometroidea	Geometridae	Chlorosea	margaretaria	SRR1021603	Transcriptome
NW_T153	Geometroidea	Geometridae	Ectropis	obliqua	SRR3056076	Transcriptome
NW_T059	Geometroidea	Geometridae	Idaea	eremiata	SRR1021615	Transcriptome
NW_T060	Geometroidea	Geometridae	Macaria	distribuaria	SRR1299213	Transcriptome
NW_T061	Geometroidea	Geometridae	Nemoria	lixaria	SRR1299347	Transcriptome
NW_T018	Geometroidea	Sematuridae	Mania	lunus	SRR1299318	Transcriptome
NW_T085	Geometroidea	Uraniidae	Calledapteryx	dryopterata	SRR1021601	Transcriptome
NW_T019	Geometroidea	Uraniidae	Lyssa	zampa	SRR1299769	Transcriptome
NW_T142	Gracillarioidea	Gracillariidae	Acrocercops	transecta	DRR023321	Transcriptome
NW_T146	Gracillarioidea	Gracillariidae	Caloptilia	triadicae	SRR1794032	Transcriptome

NW_T087	Gracillarioidea	Gracillariidae	Cameraria	ohridella	SRR1190496	Genome
NW_T020	Gracillarioidea	Gracillariidae	Phyllocnistis	citrella	SRR1299751	Transcriptome
VT57	Hyblaeoidea	Hyblaeidae	Hyblaea	madagascariensis	SRR11799525	Genome
MM07227	Hyblaeoidea	Hyblaeidae	Hyblaea	puera	SRR11799522	Genome
NW_T023	Immoidea	Immidae	Imma	tetrascia	SRR1021616	Transcriptome
NW_T064	Lasiocampoidea	Lasiocampidae	Artace	sp.	SRR1299316	Transcriptome
NW_T151	Lasiocampoidea	Lasiocampidae	Dendrolimus	houi	SRR944675	Transcriptome
NW_T152	Lasiocampoidea	Lasiocampidae	Dendrolimus	punctatus	SRR2641162	Transcriptome
NW_T065	Lasiocampoidea	Lasiocampidae	Tolype	notialis	SRR1021628	Transcriptome
NW_T025	Mimallonoidea	Mimallonidae	Lacosoma	chiridota	SRR1021619	Transcriptome
NW_T024	Mimallonoidea	Mimallonidae	Lacosoma	ludolpha	SRR1299212	Transcriptome
NW_T144	Noctuoidea	Erebidae	Arctia	plantaginis	ERR1856313	Transcriptome
NW_T026	Noctuoidea	Erebidae	Eudocima	salaminia	SRR1300148	Transcriptome
NW_T156	Noctuoidea	Erebidae	Euproctis	chrysorrhoea	SRR1040496	Transcriptome
NW_T027	Noctuoidea	Erebidae	Lymantria	dispar	SRR1021618	Transcriptome
NW_T056	Noctuoidea	Euteliidae	Anigraea	rubida	SRR1299755	Transcriptome
NW_T106	Noctuoidea	Noctuidae	Agrotis	segetum	GBCW00000000	Transcriptome
NW_T107	Noctuoidea	Noctuidae	Athetis	lepigone	GARD00000000	Transcriptome
NW_T148	Noctuoidea	Noctuidae	Chrysodeixis	includens	SRR2049082	Transcriptome
NW_T069	Noctuoidea	Noctuidae	Helicoverpa	zea	SRR1021614	Transcriptome
NW_T163	Noctuoidea	Noctuidae	Heliothis	subflexa	ERR738599	Transcriptome
NW_T224	Noctuoidea	Noctuidae	Mythimna	separata	SRR5115697	Transcriptome
NW_T173	Noctuoidea	Erebidae	Oraesia	emarginata	SRR5128005	Transcriptome
NW_T187	Noctuoidea	Noctuidae	Sesamia	nonagrioides	ERR424922	Transcriptome
NW_T189	Noctuoidea	Noctuidae	Spodoptera	exigua	SRR525279	Transcriptome
NW_G008	Noctuoidea	Noctuidae	Spodoptera	frugiperda	GCF_011064685.1	Genome
NW_T071	Noctuoidea	Noctuidae	Striacosta	albicosta	SRR037002	Transcriptome
NW_T110	Noctuoidea	Noctuidae	Trichoplusia	ni	GBKU00000000	Transcriptome
NW_T072	Noctuoidea	Nolidae	Manoba	major	SRR1300145	Transcriptome
NW_T073	Noctuoidea	Notodontidae	Notoplusia	minuta	SRR1299746	Transcriptome
NW_T092	Noctuoidea	Notodontidae	Thaumetopoea	pityocampa	SRR1284701	Transcriptome

NW_T029	Papilionoidea	Hedylidae	Macrosoma	hedylaria	SRR1299306	Transcriptome
NW_T116	Papilionoidea	Hesperiidae	Erynnis	propertius	SRX016482	Transcriptome
NW_T041	Papilionoidea	Hesperiidae	Hylephila	phyleus	SRR1299296	Transcriptome
NW_T062	Papilionoidea	Hesperiidae	Megathymus	yuccae	SRR1299752	Transcriptome
NW_T118	Papilionoidea	Hesperiidae	Thymelicus	sylvestris	SRR1325130	Transcriptome
NW_T193	Papilionoidea	Hesperiidae	Urbanus	proteus	SRR1794082	Transcriptome
NW_T068	Papilionoidea	Lycaenidae	Hemiargus	ceraunus	SRR1299274	Transcriptome
NW_T095	Papilionoidea	Lycaenidae	Polyommatus	icarus	SRR921636	Transcriptome
NW_T182	Papilionoidea	Lycaenidae	Protantigius	superans	SRR2441452	Transcriptome
NW_T188	Papilionoidea	Lycaenidae	Spindasis	takanonis	SRR2441453	Transcriptome
NW_G004	Papilionoidea	Nymphalidae	Danaus	plexippus	GCA_000235995.2	Genome
NW_T157	Papilionoidea	Nymphalidae	Fabriciana	nerippe	SRR2837841	Transcriptome
NW_G005	Papilionoidea	Nymphalidae	Heliconius	melpomene	GCA_000313835.2	Genome
NW_T088	Papilionoidea	Nymphalidae	Junonia	coenia	SRR1166409	Transcriptome
NW_T090	Papilionoidea	Nymphalidae	Limenitis	arthemis	SRR1504907	Transcriptome
NW_T171	Papilionoidea	Nymphalidae	Maniola	jurtina	SRR3721684; SRR3721695	Transcriptome
NW_G006	Papilionoidea	Nymphalidae	Melitaea	cinxia	GCA_000716385.1	Genome
NW_T089	Papilionoidea	Nymphalidae	Pararge	aegeria	SRR1190479	Genome
NW_T169	Papilionoidea	Papilionidae	Luehdorfia	chinensis	SRR2924893	Transcriptome
NW_T040	Papilionoidea	Papilionidae	Papilio	glaucus	SRR850324	Transcriptome
NW_T074	Papilionoidea	Papilionidae	Papilio	polytes	SRR850327	Transcriptome
NW_T098	Papilionoidea	Papilionidae	Parides	eurimedes	SRR921629	Transcriptome
NW_T123	Papilionoidea	Pieridae	Anthocharis	cardamines		Transcriptome
NW_T122	Papilionoidea	Pieridae	Belenois	gidica		Transcriptome
NW_T121	Papilionoidea	Pieridae	Delias	nigrina		Transcriptome
NW_T120	Papilionoidea	Pieridae	Gonepteryx	rhamni		Transcriptome
NW_T179	Papilionoidea	Pieridae	Pieris	brassicae	ERR1855021	Transcriptome
NW_T181	Papilionoidea	Pieridae	Pontia	daplidice	SRR5253669	Transcriptome
NW_T039	Papilionoidea	Riodinidae	Semomesia	campanea	SRR1299211	Transcriptome
NW_T003	Pterophoroidea	Pterophoridae	Emmelina	monodactyla	SRR1021605	Transcriptome

NW_T002	Pterophoroidea	Pterophoridae	Lantanophaga	pusillidactyla	SRR1299210	Transcriptome
NW_T037	Pyraloidea	Crambidae	Catoptria	oregonicus	SRR1021602	Transcriptome
NW_G007	Pyraloidea	Crambidae	Chilo	suppressalis	GCA_004000445.1	Genome
NW_T053	Pyraloidea	Crambidae	Cnaphalocrocis	medinalis	SRR647915	Transcriptome
NW_T158	Pyraloidea	Crambidae	Glyphodes	pyloalis	SRR5520571	Transcriptome
NW_T159	Pyraloidea	Crambidae	Haritalodes	derogata	SRR2017609	Transcriptome
NW_T168	Pyraloidea	Crambidae	Leucinodes	orbonalis	SRR5006982	Transcriptome
NW_T223	Pyraloidea	Crambidae	Loxostege	sticticalis	SRR4905822	Transcriptome
NW_T172	Pyraloidea	Crambidae	Maruca	vitrata	SRR074950	Transcriptome
NW_T038	Pyraloidea	Crambidae	Myelobia	smerintha	SRR1299267	Transcriptome
NW_T109	Pyraloidea	Crambidae	Ostrinia	nubilalis	GAVD00000000	Transcriptome
NW_T185	Pyraloidea	Crambidae	Scirpophaga	incertulas	SRR1615983; SRR1615982; SRR1613323	Transcriptome
NW_T190	Pyraloidea	Crambidae	Spoladea	recurvalis	SRR1511612	Transcriptome
NW_T201	Pyraloidea	Pyralidae	Cadra	cautella	SRR1508178	Transcriptome
NW_T075	Pyraloidea	Pyralidae	Galleria	melonella	SRR1021612	Transcriptome
NW_T114	Pyraloidea	Pyralidae	Plodia	interpunctella	ERR426341	Transcriptome
NW_T084	Thyridoidea	Thyrididae	Pseudothyris	sepulchralis	SRR1299495	Transcriptome
NW_T042	Thyridoidea	Thyrididae	Striglina	suzukii	SRR1021625	Transcriptome
NW_T043	Thyridoidea	Thyrididae	Zeuzerodes	maculata	SRR1299209	Transcriptome
NW_T044	Tineoidea	Psychidae	Thyridopteryx	ephemeraeformis	SRR1021627	Transcriptome
NW_T209	Tineoidea	Dryadaulidae	Dryadula	visaliella	SRR3180631	Transcriptome
NW_T211	Tineoidea	Meessiidae	Eudarcia	simulatricella	SRR3180633	Transcriptome
NW_T216	Tineoidea	Tineidae	Tineola	bisselliella	SRR3180622	Transcriptome
NW_T149	Tortricoidea	Tortricidae	Ctenopseustis	herana	SRR1165709	Transcriptome
NW_T045	Tortricoidea	Tortricidae	Cydia	pomonella	SRR1021606	Transcriptome
NW_T137	Tortricoidea	Tortricidae	Epiphyas	postvittana	SRR1151338	Transcriptome
NW_T111	Tortricoidea	Tortricidae	Grapholita	molesta	GADK00000000	Transcriptome
NW_T160	Tortricoidea	Tortricidae	Hedya	nubiferana	SRR3476345	Transcriptome
NW_T047	Tortricoidea	Tortricidae	Phaecasiophora	niveiguttana	SRR1021604	Transcriptome

NW_T113	Tortricoidea	Tortricidae	Planotortrix	excessana	SRR1258863	Transcriptome
NW_T115	Tortricoidea	Tortricidae	Rhyacionia	leptotubula	DRR012970	Transcriptome
NW_T030	Urodoidea	Urodidae	Urodus	decens	SRR1021629	Transcriptome
NW_T031	Urodoidea	Urodidae	Urodus	parvula	SRR1299750	Transcriptome
VT11	Whalleyanoidea	Whalleyanidae	Whalleyana	vroni	SRR11799523	Genome
NW_G001	Yponomeutoidea	Plutellidae	Plutella	xylostella	GCF_000330985.1	Genome
NW_T097	Yponomeutoidea	Yponomeutidae	Yponomeuta	evonymella	SRR921659	Transcriptome
NW_T033	Zygaenoidea	Dalceridae	Dalcera	abrasa	SRR1299208	Transcriptome
NW_T055	Zygaenoidea	Epipyropidae	Epipomponia	nawai	SRR1021611	Transcriptome
NW_T063	Zygaenoidea	Lacturidae	Lactura	subfervens	SRR1021626	Transcriptome
NW_T067	Zygaenoidea	Limacodidae	Euclea	delphinii	SRR1021597	Transcriptome
NW_T034	Zygaenoidea	Megalopygidae	Megalopyge	crispata	SRR1021617	Transcriptome
NW_T035	Zygaenoidea	Megalopygidae	Megalopyge	tharops	SRR1299217	Transcriptome
NW_T036	Zygaenoidea	Zygaenidae	Zygaena	fausta	SRR1021632	Transcriptome
NW_T194	Zygaenoidea	Zygaenidae	Zygaena	filipendulae	SRR023844	Transcriptome

Table S3: Complete summary of 332 gene recovery for specimens sequenced in this study. Presence of the gene in the dataset is represented by an X. Gene codes corresponds to the codes used with Rota et al (in prep).

Gene	VT56	VT58	VT57	MM07227	VT11
14-3-3E	-	-	-	-	X
2ODHa	X	X	X	-	-
2ODHb	X	-	-	X	X
39SrpL24	X	-	X	X	X
6PFK	X	-	X	X	X
6PGD	-	X	X	X	X
ACC	X	X	X	-	-
Actin2	-	-	X	X	-
acyl	-	X	-	X	X
ADF1	X	-	X	X	X
ADH	X	-	X	X	X
AdK2	X	-	X	X	X
ADP-RF1	-	-	-	-	-
ADPGK	-	X	X	X	X
ADPRF	X	X	X	X	X
AFG3	X	X	-	X	X
AGBE	X	X	X	X	X
AH	X	X	X	X	-
Ala	X	X	-	X	X
Alb	X	-	X	X	X
AK3	X	X	X	X	X
Ala	X	X	-	X	-
AIDH	-	X	-	X	X
ALG2	X	-	-	X	-
ANK13C	X	X	-	X	X
ArgKin	X	X	X	X	-
ATP6	X	X	X	X	X
ATPase1	-	-	-	X	-
ATPase6	-	-	X	X	X
ATPasea	X	X	-	X	X
ATPaseAC39	X	X	X	X	X
ATPaseb	X	X	-	X	X
ATPaseC	-	X	X	X	X
ATPaseDelta	X	X	X	X	X
ATPasee	X	-	X	X	-
ATPaseEpsil	X	X	-	-	-
ATPaseF	X	X	X	X	X

Gene	VT56	VT58	VT57	MM07227	VT11
PDHE1	X	X	X	X	X
PG	X	X	-	X	X
PGK	X	-	X	X	-
PGLYM	X	X	X	X	-
PIXFT	-	X	X	-	X
PK	X	X	X	X	X
Pleck	X	X	-	X	X
PollI	X	X	X	X	X
Porin	X	-	X	X	X
ProSup	X	X	X	X	-
PS	-	X	X	X	X
PSb	-	X	X	X	X
R5PI	X	X	-	X	-
RAB5	X	-	-	X	X
Ras	X	X	X	X	X
RGNE	X	-	X	X	X
RP3E	-	-	-	-	-
RPF2	-	-	-	X	X
RpL10	X	X	X	X	X
RpL10A	X	X	X	X	X
RpL11	X	X	X	X	X
RpL12	X	X	X	X	X
RpL13	X	X	-	X	X
RpL13A	X	X	-	X	X
RpL14	-	-	X	X	X
RpL15	X	X	X	X	X
RpL17	X	X	X	X	X
RpL18	X	X	X	X	X
RpL18A	-	X	X	X	-
RpL19	-	-	X	X	-
RpL2	X	-	X	X	X
RpL20	X	X	X	X	X
RpL21	X	-	-	X	X
RpL22	X	-	X	X	X
RpL23	X	X	X	X	X
RpL24	X	X	X	X	X
RpL24A	-	X	X	X	X

ATPaseg	X	-	X	X	-
ATPaseH	X	X	X	-	-
ATPaseIa	-	-	X	X	-
ATPaseIb	-	-	-	X	-
ATPaseIc	-	-	-	X	-
ATPaseOS	X	-	X	X	X
ATPaseProt	X	X	X	X	X
ATPasesubD	X	-	X	X	X
ATPCL	X	X	X	-	X
ATPgamma	X	X	X	X	X
ATreP	-	X	X	X	-
BPx1	X	X	X	X	X
BTB	X	-	X	X	X
Ca-ATPase	-	-	-	-	-
Ca2	-	X	-	X	X
CAD	X	X	X	X	X
CAH	-	X	X	X	X
CDK5	-	-	X	X	-
Chap6a	X	X	X	X	X
CHIP	-	-	-	X	X
chitinase	X	X	-	X	X
CHL	-	X	X	X	X
CMBP5	X	X	X	X	X
COCC	X	X	-	X	X
COI	X	X	X	X	X
COII	X	X	X	X	X
COIII	X	X	X	X	X
COIV	X	X	X	X	X
COP9	X	X	X	-	X
COVa	X	X	X	X	X
COVb	-	X	X	-	X
COVIA1	X	-	-	X	X
COVIlc1	-	-	X	X	-
COX11	X	X	X	X	X
CRc1	-	X	X	X	X
CRis	-	X	X	X	X
CS	-	X	X	X	-
Cullin5	X	X	X	X	X
CycH	X	-	X	X	X
CycY	-	X	X	X	X

RpL26	X	-	X	X	X
RpL27	-	X	X	X	X
RpL27A	-	-	X	X	-
RpL28	X	X	X	X	X
RpL29	X	X	-	X	-
RpL3	-	-	X	X	X
RpL30	X	-	X	X	X
RpL31	-	X	-	X	X
RpL32	X	X	X	-	X
RpL34	-	X	X	X	X
RpL35	X	-	X	-	X
RpL35A	X	X	X	X	-
RpL36	-	-	X	X	-
RpL36A	X	-	X	X	X
RpL37	X	X	-	X	X
RpL37A	-	X	X	X	X
RpL38	X	X	X	X	-
RpL39	X	-	X	X	-
RpL4	-	X	-	X	X
RpL5	X	X	X	X	-
RpL7	X	-	X	X	X
RpL7A	X	-	X	X	X
RpL8	-	-	X	X	X
RpL9	X	X	X	X	X
RpP0	X	-	X	X	X
RpP1	X	-	X	X	X
RpP2	-	-	X	X	-
RpS10	-	X	X	X	X
RpS11	X	X	-	X	X
RpS12	-	-	X	X	X
RpS13	X	X	X	X	X
RpS14	X	X	X	X	-
RpS15	X	X	X	X	X
RpS15A	X	-	X	X	X
RpS16	X	-	-	X	X
RpS17	X	X	X	X	X
RpS18	X	X	-	X	-
RpS19	X	-	-	X	X
RpS2	-	-	X	X	X
RpS20	X	-	X	X	X

CysP	X	X	X	X	-
CytB	X	X	X	X	X
CytB9	X	X	-	-	X
CytBc18	-	-	X	X	-
DDB1	-	X	X	X	X
DDC	X	-	-	X	X
DDPS	X	X	X	X	X
DDX10	X	X	-	X	-
DDX23	-	X	X	X	-
DLDH	X	-	X	X	-
DnaJ	X	X	X	X	X
E2C	-	-	-	X	X
EAP30	-	X	X	X	-
EF1a	X	-	-	X	X
EF1gA	-	X	-	X	-
EF1gB	X	-	-	-	-
eno	X	-	-	X	-
Exp1	-	X	X	X	X
F16BA	X	-	-	X	-
F16BP	X	-	X	X	-
FCF1	X	X	X	X	X
FH	X	X	X	X	X
ForKin	X	X	X	-	-
G1PU	-	X	-	X	X
G6P1E	X	-	X	X	X
GAPDH	X	-	X	X	X
gels	X	-	X	X	X
GLYP	X	X	X	X	X
GPD	X	-	-	X	X
GPI	-	X	X	X	-
gpts	X	-	X	X	X
GSS	X	-	X	-	X
GTPb	X	X	X	X	X
GTPCHI	-	X	X	X	X
HBS1	X	-	X	X	X
HCADH	X	-	-	X	-
his	X	X	X	X	X
HK	-	-	X	X	-
IAP	X	-	X	X	-
IDH	X	X	X	X	X

RpS21	X	X	X	X	-
RpS23	X	X	X	X	-
RpS24	-	X	X	X	X
RpS25	-	X	X	X	X
RpS26	X	X	-	X	X
RpS27	X	-	X	X	X
RpS27A	-	X	-	-	X
RpS28	-	-	X	X	X
RpS29	X	X	-	X	X
RpS2b	X	X	-	X	X
RpS3	X	X	X	X	X
RpS30	-	-	-	X	X
RpS3A	-	X	X	X	X
RpS4	X	-	-	-	X
RpS5	X	X	X	X	X
RpS6	-	X	-	X	X
RpS7	X	-	X	X	X
RpS8	X	X	X	X	X
RpS9	X	-	X	X	X
RpSA	X	X	X	X	-
RSP1	X	X	X	X	-
SARAH	X	X	X	X	X
SDH	X	X	X	X	-
SDHFS	X	X	X	X	X
SF38A	-	X	-	X	X
SL	X	X	X	X	X
slowmo	X	X	X	-	X
SOD	-	X	X	X	X
SPT16	-	-	X	X	-
Ssu72	X	-	-	X	X
STPP	X	X	-	X	-
SucCL	X	X	X	X	X
SucCoA	-	X	X	X	X
SucCoAb	X	X	X	X	-
TA	X	-	X	-	X
TBP	X	X	-	X	X
TfB	-	-	-	X	X
TFIIF	X	X	X	X	X
TFS	X	-	X	X	X
TGF	X	-	X	X	X

IDHa	X	X	-	X	X
IDHb	X	X	-	X	X
IDHc	X	X	X	X	X
IEBF	X	X	X	-	X
IF5C	X	-	X	X	X
JHBP	X	X	X	X	X
JM	X	X	X	-	X
KRR1	X	-	-	X	X
LDH	-	-	X	-	X
LeuZip	X	X	-	X	X
LIS	-	-	X	X	-
LPL	-	-	X	X	X
luc7	X	X	X	-	-
M1PD	X	X	X	X	X
MalDH	X	-	-	X	X
MaNa	X	X	X	X	X
MDH	X	X	X	X	X
MedPolII	X	X	X	X	X
MK6	X	X	X	X	X
MMP41	X	X	-	X	X
MPP2	X	X	X	X	X
NAT10	X	X	-	X	X
NC	X	X	X	X	X
ND1	X	X	X	X	X
ND1a1	X	X	X	-	X
ND1a10	X	X	X	-	X
ND1a12	X	-	-	X	-
ND1a13	X	X	-	X	X
ND1a2	-	X	-	X	X
ND1a4	-	-	X	X	-
ND1a5	-	-	X	X	X
ND1a6	X	X	X	X	X
ND1a7	-	X	-	-	X
ND1a8	-	X	X	-	-
ND1a9	X	X	X	X	-
ND1ab1	X	X	-	X	X
ND1b1	X	-	-	X	X
ND1b10	X	X	-	X	-
ND1b5	X	-	X	X	X
ND1b6	-	X	-	X	X

TIF2A	X	X	X	X	X
TIF3B	X	X	X	X	X
TIF3Ca	X	X	-	X	X
TIF3Cb	-	X	X	X	X
TIF3K	X	X	X	X	X
TIF3M	X	X	X	X	-
TIF4A	X	-	X	X	X
TIF5A	-	-	X	X	-
TIF6	-	X	X	X	X
TK	X	-	X	-	-
TP50A	X	-	X	X	X
TPI	X	X	X	X	X
TPPC11	-	-	X	X	X
Treh-2	-	-	-	-	-
Trop	X	X	X	X	X
TRP	-	-	-	X	-
U1A	X	X	X	X	X
U5	-	X	X	X	-
UBCc	X	X	X	X	X
UCCR7	X	X	X	X	-
UCTH	X	X	-	X	X
UDPG6DH	X	X	X	X	X
UDPGAD	X	X	X	X	X
UnP	X	X	X	X	-
vacA	X	X	-	X	X
vacATPc	-	X	X	X	-
vacATPd	-	X	X	X	X
vacATPE	X	X	X	X	X
vacATPF	X	-	X	X	X
vacATPg	X	X	X	X	X
vacATPH	X	X	X	X	X
vacB	X	-	-	X	-
VATPc	X	-	-	X	X
VPS26	X	X	X	X	X
VPS4	-	X	X	X	X
WD40	X	X	X	X	X
WPH	X	X	-	X	X
ZN330	X	-	-	X	X

ND1b9	X	-	X	X	-
ND2	X	-	X	X	X
ND3	X	X	X	X	X
ND4	X	X	X	X	X
ND4L	X	X	X	X	X
ND5	X	X	X	X	X
NDF1	X	X	X	X	X
NDF2	X	X	-	X	X
NDFS1	-	-	X	-	-
NDFS2	X	X	-	X	X
NDFS3	X	-	-	X	X
NDFS7	X	X	X	X	X
NDFS8	X	X	-	X	X
NEDD8	X	X	X	X	X
Nex9	X	X	X	X	X
nGTPb1	X	-	X	X	X
NIDH	X	-	X	X	X
NIF3	X	X	-	X	X
NMD3	-	-	X	X	X
nuc56	X	X	X	X	X
nuc58	-	X	-	X	-
OSGEP	X	-	X	X	X
P26S12	X	-	-	X	X
P26S4	X	-	X	X	X
PCNA	-	-	X	X	X
PDH	X	-	X	-	-