

Online Material

Table. Taxa used in this study with locality data and Genbank accession numbers.

Taxon	Abbrev	No.	Subfamily	Tribe	Locality data	Opsin (~1200bp)	Wingless (450bp)	EF1 (~1600bp)
Rophitinae								
<i>Conanthalictus wilmattae</i>	Cowi	351	Rophitinae	Conanthalictini	USA: California [J. Neff]	AY 227934	AY 222553	AF435378
<i>Goletapis peruensis</i>	Gope	569	Rophitinae	Penapini	Peru: Lima Dept. [J.G. Rozen, Jr.]	AY 227923*	AY 222560	AF435386
<i>Penapis penai</i>	Pnpe	572	Rophitinae	Penapini	Chile: Huasco Prov. [J.G. Rozen, Jr.]	AY 227921	AY 222558	AF435401
<i>Penapis torvi</i>	Pnto	586	Rophitinae	Penapini	Chile: Region III [L. Packer]	AY 227922	AY 222559	AF435402
<i>Dufourea malacothricis</i>	Duma	235	Rophitinae	Rophitini	USA: Michigan [P. Lincoln]	AY 227917	AY 222554	AF435382
<i>Dufourea mulleri</i>	Dumu	233	Rophitinae	Rophitini	USA: Michigan [P. Lincoln]	AY 227918	AY 222555	AF435383
<i>Dufourea novaeangliae</i>	Duno	354	Rophitinae	Rophitini	USA: New York, Cayuga Co.	AY 227919	AY 222556	AF435384
<i>Sphecodosoma pratti</i>	Sspr	355	Rophitinae	Rophitini	USA: Texas, Mason Co. [J. Neff]	AY 227924	AY 222561	AF435410
<i>Systropha curvicornis</i>	Sycu	350	Rophitinae	Rophitini	Austria: Vienna [M. Ayasse]	AY 227925	AY 222562	AF435411
<i>Systropha planidens</i>	Sypl	349	Rophitinae	Rophitini	Austria: Vienna [M. Ayasse]	AY 227926	AY 222563	AF435412
<i>Protodufourea parca</i>	Pfsp	237	Rophitinae	Xeralictini	USA: Arizona, Pima Co. [L. Packer]	AY 227920	AY 222557	AF435399
<i>Xeralictus bicuspidae</i>	Xrbi	566	Rophitinae	Xeralictini	USA: California, San Diego Co. [R. Snelling]	AY 227927	AY 222564	AF435413
<i>Xeralictus timberlakei</i>	Xrti	564	Rophitinae	Xeralictini	USA: California, Riverside Co. [R. Snelling]	AY 227928	AY 222565	AF435414
Nomiinae								
<i>Dieunomia nevadensis</i>	None	207	Nomiinae		USA: Arizona, Cochise Co.	AY 227931	AY 222568	AF435396
<i>Dieunomia triangulifera</i>	Notr	286	Nomiinae		USA: Kansas, Douglas Co.	AY 227932	AY 222569	AF435397
<i>Lipotriches (Austro.) australica</i>	Noau	754	Nomiinae		Australia: South Australia, Cowell	AY 227930	AY 222567	AF435395
<i>Pseudapis unidentata</i>	Psun	241	Nomiinae		Spain: Almeria Prov.	AY 227933	AY 222570	AF435404
Nomioidinae								
<i>Cellariella brooksi</i>	Cebr	1205	Nomioidinae		Madagascar: 8 km N. Tulear, 19 Oct. 2004	EU203280	EU203218	EU203249
<i>Nomioides (Atronomioides) tumidus</i>	Nosp	1209	Nomioidinae		Madagascar: 19 km N. Tulear, 17 Oct. 2004	EU203281	EU203219	EU203250
<i>Nomioides (Nomioides) facilis</i>	Nmsp	243	Nomioidinae		Spain: Granada Prov.	AY 227929	AY 222566	AF435394
Halictinae								
<i>Augochlorella pomoniella</i>	Aupo	592	Halictinae	Augochlorini	USA: California, Inyo Co. [J. Ascher]	AY 227935	AY 222572	AF435373
<i>Augochloropsis metallica</i>	Aume	334/5	Halictinae	Augochlorini	USA: New York, Tompkins Co.	AY 227934	AY 222571	AF140315
<i>Corynura patagonica</i>	Copt	581	Halictinae	Augochlorini	Chile: Region IX, near Temuco [L. Packer]	AY 227936	AY 222573	na
<i>Megalopta genalis</i>	Mgge	247	Halictinae	Augochlorini	Republic of Panama: Panama Prov. [M. Engel]	AY 227937	AY 222574	AF140316
<i>Neocorynura discolor</i>	Ncdi	249	Halictinae	Augochlorini	Colombia [M. Engel]	AY 227938	AY 222575	AF140317
<i>Agapostemon leunculus</i>	Agle	336	Halictinae	Caenohalictini	Republic of Panama: Panama Prov. [W. Wcislo]	AY 227939	AY 222576	AF435371
<i>Agapostemon tyleri</i>	Agty	230	Halictinae	Caenohalictini	USA: Arizona, Cochise Co.	AY 227940	AY 222577	AF140320
<i>Caenohalictus sp. 2</i>	Cnsp	578	Halictinae	Caenohalictini	Chile: Region I, Socoroma [L. Packer]	AY 227941	AY 222578	AF435376
<i>Caenohalictus sp. 3</i>	Cnsp	788	Halictinae	Caenohalictini	Brazil: Minas Gerais [D. Yanega]	AY 227942	AY 222579	AF435377

Table. Continued

Taxon	Abbrev	No.	Subfamily	Tribe	Locality data	Opsin	Wingless	EF1
						(~1200bp)	(450bp)	(~1600bp)
<i>Dinagapostemon sp. 1</i>	Dnsp	573	Halictinae	Caenohalictini	Republic of Panama: Chiriqui Prov. [L. Packer]	AY 227943	AY 222580	AF435380
<i>Dinagapostemon sp. 2</i>	Dnsp	790	Halictinae	Caenohalictini	Republic of Panama: Cocle Prov. [L. Packer]	AY 227944	AY 222581	AF435381
<i>Habralictus sp.</i>	Hasp	786	Halictinae	Caenohalictini	Brazil: Minas Gerais [D. Yanega]	AY 227945	AY 222582	AF435387
<i>Pseudagapostemon braziliensis</i>	Psbr	347	Halictinae	Caenohalictini	Brazil: Minas Gerais [D. Yanega]	AY 227946	AY 222583	AF140323
<i>Pseudagapostemon pissisi</i>	Pspis	576	Halictinae	Caenohalictini	Chile: Region VIII (nr. Temuco) [L. Packer]	AY 227947	AY 222584	AF435403
<i>Rhinotula denticrus</i>	Rhdn	799	Halictinae	Caenohalictini	Republic of Panama: Panama Prov. [D. Roubik]	AY 227948	AY 222585	AF435405
<i>Ruizantheda mutabilis</i>	Rumt	574	Halictinae	Caenohalictini	Chile: Region VIII (nr. Temuco) [L. Packer]	AY 227949	AY 222586	AF435406
<i>Ruizantheda proxima</i>	Rupr	575	Halictinae	Caenohalictini	Chile: Region VIII (nr. Temuco) [L. Packer]	AY 227950	AY 222587	AF435407
<i>Halictus (Halictus) quadricinctus</i>	Haqu	89	Halictinae	Halictini	France: Dordogne [C. Plateaux-Quenu]	AY 227956	AY 222592	AF140334
<i>Halictus (Seladonia) tripartitus</i>	Hatr	93	Halictinae	Halictini	USA: Arizona, Cochise Co.	AY 227957	AY 222593	AF140310
<i>Halictus (Vestitohalictus) vestitus</i>	Vève	373	Halictinae	Halictini	Spain: Granada Prov.	AY 227958*	AY 222594	AF140313
<i>Lasioglossum (Australictus) lithuscum</i>	Auli	711	Halictinae	Halictini	Australia: Victoria	AY 227962	AY 222598	AF435372
<i>Lasioglossum (Chilalictus) florale</i>	Chfl	320	Halictinae	Halictini	Australia: South Australia [S. Reyes]	AY 227966	AY 222602	AF264792
<i>Lasioglossum (Chilalictus) lanarium</i>	Chla	316	Halictinae	Halictini	Australia: Victoria [S. Reyes]	AY 227967	AY 222603	AF264793
<i>Lasioglossum (Ctenonomia) nicolli</i>	Ctni	1192	Halictinae	Halictini	Madagascar: Parc National Isalo	EU203307	EU203248	EU203279
<i>Lasioglossum (Dialictus) zephyrum</i>	Dizp	74	Halictinae	Halictini	USA: New York, Seneca Co.	AF448918*	AY 222607	AF435379
<i>Lasioglossum (Evylaeus) calceatum</i>	Evca	105	Halictinae	Halictini	France: Dordogne [C. Plateaux-Quenu]	AF448877*	AY 222608	AF435385
<i>Lasioglossum (Hemihalictus) lustrans</i>	Helu	186	Halictinae	Halictini	USA: Texas, Bastrop Co. [J. Neff]	AF448904*	AY 222609	AF435388
<i>Lasioglossum (Homalictus) megastigmus</i>	Homg	360	Halictinae	Halictini	Australia: Western Australia, Bluff Knoll [S. Reyes]	AY 227964	AY 222600	AF264839
<i>Lasioglossum (Homalictus) punctatus</i>	Hopu	245	Halictinae	Halictini	Australia: South Australia, Adelaide [S. Reyes]	AY 227965	AY 222601	AF435389
<i>Lasioglossum (Lasioglossum) athabascense</i>	Laat	556	Halictinae	Halictini	USA: New York, Tompkins Co.	AF448867	AY 222604	AF435390
<i>Lasioglossum (Lasioglossum) scitulum</i>	Lasc	550	Halictinae	Halictini	Japan: Shimane Prefecture [R. Miyanaga]	AY 227968	AY 222605	AF435391
<i>Lasioglossum (Lasioglossum) zonulum</i>	Lazo	284	Halictinae	Halictini	USA: New York, Tompkins Co.	AY 227969	AY 222606	AF264855
<i>Lasioglossum (Parusphecodes) hybodinum</i>	Pahy	299	Halictinae	Halictini	Australia: South Australia [S. Reyes]	AY 227963	AY 222599	AF264857
<i>Mexalictus arizonensis</i>	Mxaz	98	Halictinae	Halictini	USA: Arizona, Santa Cruz Co. [L. Packer]	AY 227959	AY 222595	AF140322
<i>Putellapis (Archihalictus) joffrei</i>	Arjo	1188	Halictinae	Halictini	Madagascar: Parc National Ranomafana	EU203301	EU203242	EU203273
<i>Putellapis (Chaetalictus) coccinea</i>	Chco	1189	Halictinae	Halictini	Madagascar: Parc National Ranomafana	EU203302	EU203243	EU203274
<i>Putellapis (Chaetalictus) minima</i>	Chsp	911	Halictinae	Halictini	South Africa: Western Cape Prov., Citrusdal	EU203289	EU203231	EU203261
<i>Putellapis (Chaetalictus) sp. 2</i>	Chsp	603	Halictinae	Halictini	South Africa: Kwazulu-Natal [L. Packer]	AY 227952	AY 222588	AF435374
<i>Putellapis (Chaetalictus) spec. nov. 66</i>	Chsp	956	Halictinae	Halictini	South Africa: Mpumalanga, Graskop	EU203290	EU203230	EU203262
<i>Putellapis (Lomatalictus) sp.</i>	Losp	604	Halictinae	Halictini	South Africa: Gauteng [C. Eardley]	AY 227953	AY 222589	AF435393
<i>Putellapis (Lomatalictus) malachurinus</i>	Lole	954	Halictinae	Halictini	South Africa: Mpumalanga, Graskop	EU203291	EU203232	EU203263

Table. Continued

Taxon	Abbrev	No.	Subfamily	Tribe	Locality data	Opsin	Wingless	EF1
						(~1200bp)	(450bp)	(~1600bp)
<i>Patellapis (Madagalictus) castaneus</i>	Mdca	1194	Halictinae	Halictini	Madagascar: Parc National Ranomafana	EU203303	EU203244	EU203275
<i>Patellapis (Madagalictus) inelegans</i>	Mdin	1195	Halictinae	Halictini	Madagascar: Parc National Ranomafana	EU203304	EU203245	EU203276
<i>Patellapis (Madagalictus) lyalli</i>	Mdly	1204	Halictinae	Halictini	Madagascar: Parc National Ranomafana	EU203305	EU203246	EU203277
<i>Patellapis (Pachyhalictus) sp.</i>	Phsp	357	Halictinae	Halictini	Vietnam: Ban Don [L. Packer]	AY 227954	AY 222590	AF435400
<i>Patellapis (Patellapis) braunsella</i>	Pabr	1196	Halictinae	Halictini	South Africa: Western Cape Prov., Nieuwoudtville	EU203306	EU203247	EU203278
<i>Patellapis (Patellapis) cf. minutior spec. nov.</i>	Pasp1	915	Halictinae	Halictini	South Africa: Western Cape Prov., Citrusdal	EU203293	EU203234	EU203265
<i>Patellapis (Patellapis) montagui</i>	Pamn	914	Halictinae	Halictini	South Africa: Western Cape Prov., Clanwilliam	EU203292	EU203233	EU203264
<i>Patellapis (Patellapis) spec. nov. 10</i>	Pasp2	918	Halictinae	Halictini	South Africa: Western Cape Prov., Vánrhynsdorp	EU203294	EU203235	EU203266
<i>Patellapis (Patellapis) spec. nov. 114</i>	Chrv	909	Halictinae	Halictini	South Africa: Northern Cape Prov., Port Nolloth	EU203288	EU203229	EU203260
<i>Patellapis (Zonalictus) high elevation sp.</i>	Zohe	957	Halictinae	Halictini	South Africa: Mpumalanga, Sabie	EU203300	EU203241	EU203272
<i>Patellapis (Zonalictus) abessinicus</i>	Zoab	950	Halictinae	Halictini	South Africa: Free State, Harris Smith	EU203295	EU203236	EU203267
<i>Patellapis (Zonalictus) albofasciatus</i>	Zosp	949	Halictinae	Halictini	South Africa: Free State, Koppies	EU203297	EU203238	EU203269
<i>Patellapis (Zonalictus) andreniformis</i>	Zoan	919	Halictinae	Halictini	South Africa: Western Cape Prov., Citrusdal	EU203296	EU203237	EU203268
<i>Patellapis (Zonalictus) vittatus</i>	Zovt	921	Halictinae	Halictini	South Africa: Western Cape Prov., Citrusdal	EU203298	EU203239	EU203270
<i>Patellapis (Zonalictus) zacephalum</i>	Zoeh	955	Halictinae	Halictini	South Africa: Mpumalanga: Graskop	EU203299	EU203240	EU203271
<i>Thrincohalictus prognathus</i>	Thpr	434	Halictinae	Halictini	Israel: Golan Heights [L. Packer]	AY 227955	AY 222591	AF140326
<i>Eupetersia (Eupetersia) seyrigi</i>	Eusy	1243	Halictinae	Sphecodini	Madagascar: Parc National Ranomafana	EU203287	EU203228	EU203259
<i>Sphecodes autumnalis</i>	Spau	1019	Halictinae	Sphecodini	NY: Cortland Co., Cortlandville [Ascher]	na	EU203225	EU203256
<i>Sphecodes clematidis</i>	Spcl	1020	Halictinae	Sphecodini	NY: Tompkins Co., Salmon Creek [Ascher]	na	EU203226	EU203257
<i>Sphecodes confertus</i>	Spcn	1017	Halictinae	Sphecodini	NY: Tompkins Co., Salmon Creek [Ascher]	na	EU203227	EU203258
<i>Sphecodes minor</i>	Spmi	21	Halictinae	Sphecodini	USA: New York, Tompkins Co.	AY 227960	AY 222596	AF140324
<i>Sphecodes ranunculi</i>	Spra	337	Halictinae	Sphecodini	Canada: Nova Scotia [L. Packer]	AY 227961	AY 222597	AF140325
<i>Parathrinchostoma seyrigi</i>	Ptsk	1248	Halictinae	Thrinchostomini	Madagascar: Parc National Ranomafana [Pauly]	EU203287	EU203224	EU203255
<i>Thrinchostoma (Diagonozus) sp.</i>	Trsp	464	Halictinae	Thrinchostomini	Borneo: Sarawak [S. Heydon]	AY 227951	na	na
<i>Thrinchostoma (Eothrinchostoma) kandi</i>	Thkd	952	Halictinae	Thrinchostomini	South Africa: Kwazulu-Natal, Hluhluwe	EU203282	EU203220	EU203251
<i>Thrinchostoma (Eothrinchostoma) torridum</i>	Thto	953	Halictinae	Thrinchostomini	South Africa: Kwazulu-Natal, Hluhluwe	EU203283	EU203221	EU203252
<i>Thrinchostoma (Thrinchostoma) conjugens</i>	Thco	1199	Halictinae	Thrinchostomini	Madagascar: Parc National Ranomafana	EU203284	EU203222	EU203253
<i>Thrinchostoma (Thrinchostoma) lemuriæ</i>	Thle	1200	Halictinae	Thrinchostomini	Madagascar: Parc National Ranomafana	EU203285	EU203223	EU203254

* = OpsFor/Rev only (others are For/Rev4)