

Table S2 *trnL-trnF* molecular identification of honeybee pollen pellets collected in Hokkaido, northern Japan

No. ^a	Identified plant	Species in a monophyletic group with a pollen pellet in the phylogenetic tree ^b	
		Distributed in study area	Not reported in study area
1	<i>Actinidia polygama</i>	<i>Actinidia polygama</i>	<i>Actinidia valvata</i> var. <i>valvata</i>
2	<i>Angelica</i> sp.	—	<i>Angelica nitida</i>
3	<i>Artemisia</i> sp.	<i>Artemisia indica</i> var. <i>maximowiczii</i> , <i>Artemisia montana</i>	<i>Artemisia argyi</i>
4	<i>Asparagus officinalis</i>	<i>Asparagus officinalis</i>	—
5	<i>Chelidonium majus</i>	<i>Chelidonium majus</i>	—
6	<i>Chenopodium album</i>	<i>Chenopodium album</i>	<i>Chenopodium gigantospermum</i> var. <i>standleyanum</i>
7	<i>Cirsium vulgare</i>	<i>Cirsium vulgare</i>	<i>Cirsium carniolicum</i> subsp. <i>rufescens</i> , <i>Cirsium echinus</i> , <i>Cirsium lidjiangense</i>
10	<i>Fagopyrum esculentum</i>	<i>Fagopyrum esculentum</i>	—
11	<i>Fallopia sachalinensis</i>	<i>Fallopia sachalinensis</i>	<i>Fallopia japonica</i>
12	<i>Filipendula</i> sp.	—	<i>Filipendula ulmaria</i>
13	<i>Hydrangea paniculata</i>	<i>Hydrangea paniculata</i>	<i>Hydrangea heteromalla</i>
14	<i>Hydrangea petiolaris</i>	<i>Hydrangea petiolaris</i>	—
15	<i>Hypochaeris radicata</i>	<i>Hypochaeris radicata</i>	<i>Hypochaeris glabra</i>
16	<i>Kalopanax septemlobus</i>	<i>Kalopanax septemlobus</i>	—
18	<i>Oryza sativa</i>	<i>Oryza sativa</i>	<i>Oryza barthii</i> , <i>Oryza glaberrima</i> , <i>Oryza glumipatula</i> , <i>Oryza meridionalis</i> , <i>Oryza nivara</i> , <i>Oryza rufipogon</i>
19	<i>Parasenecio</i> sp.	—	<i>Parasenecio deltophyllus</i> , <i>Parasenecio maowenensis</i>
20	<i>Plantago</i> sp.	—	<i>Plantago argentea</i> , <i>Plantago leiopetala</i>
22	<i>Rudbeckia hirta</i> ^c	<i>Rudbeckia hirta</i>	<i>Ratibida columnaris</i>
25	<i>Solanum nigrum</i>	<i>Solanum nigrum</i>	<i>Solanum opacum</i> , <i>Solanum retroflexum</i> , <i>Solanum scabrum</i> , <i>Solanum tarderemotum</i> , <i>Solanum umalilaense</i> , <i>Solanum villosum</i>
26	<i>Solidago gigantea</i>	<i>Solidago gigantea</i>	<i>Solidago elongata</i>
27	<i>Solidago</i> sp.	—	<i>Solidago decurrens</i> , <i>Solidago litoralis</i>
28	<i>Tilia</i> sp.	<i>Tilia japonica</i> , <i>Tilia miqueliana</i>	<i>Tilia amurensis</i> , <i>Tilia mandshurica</i> , <i>Tilia megaphylla</i> , <i>Tilia oliveri</i> , <i>Tilia paucicostata</i> , <i>Tilia rufa</i> , <i>Tilia taquetii</i>
29	<i>Trifolium</i> sp.	<i>Trifolium pratense</i> , <i>Trifolium repens</i>	<i>Trifolium alpestre</i> , <i>Trifolium caudatum</i> , <i>Trifolium heldreichianum</i> , <i>Trifolium pannonicum</i> , <i>Trifolium velebiticum</i>
30	<i>Trifolium repens</i>	<i>Trifolium repens</i>	—
31	<i>Zea mays</i>	<i>Zea mays</i>	<i>Zea diploperennis</i> , <i>Zea luxurians</i> , <i>Zea nicaraguensis</i> , <i>Zea perennis</i>

^a Pollen pellets No. 8, 9, 17, 21, 23, and 24 showed no amplification in PCR.

^b Subclade(s) within a monophyletic group were excluded. Floral and phenological information was confirmed by reference to the literature (Ohashi et al. 2015, 2016a, 2016b, 2017a, 2017b; Shimizu 2003).

^c Together with identification using ITS2, No. 22 was identified as *Rudbeckia laciniata* (see Table 1)