

Table S3 ITS2 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>	—
2	<i>Angelica</i> sp.	—	<i>Angelica dahurica</i> var. <i>formosana</i>
3	<i>Artemisia montana</i>	<i>Artemisia montana</i>	<i>Artemisia stelleriana</i>
4	<i>Asparagus officinalis</i>	<i>Asparagus officinalis</i>	—
5	<i>Chelidonium majus</i>	<i>Chelidonium majus</i>	—
6	<i>Chenopodium</i> sp.	<i>Chenopodium album</i> , <i>Chenopodium murale</i>	<i>Chenopodium acuminatum</i> subsp. <i>virgatum</i> , <i>Chenopodium berlandieri</i> , <i>Chenopodium giganteum</i> , <i>Chenopodium gigantospermum</i> var. <i>standleyanum</i> , <i>Chenopodium opulifolium</i> , <i>Chenopodium novopokrovskyanum</i>
7	<i>Cirsium vulgare</i>	<i>Cirsium vulgare</i>	<i>Cirsium muticum</i>
9	<i>Cucurbita maxima</i>	<i>Cucurbita maxima</i>	—
12	<i>Filipendula camtschatica</i>	<i>Filipendula camtschatica</i>	—
13	<i>Hydrangea paniculata</i>	<i>Hydrangea paniculata</i>	—
15	<i>Hypochaeris radicata</i>	<i>Hypochaeris radicata</i>	<i>Agoseris elata</i> , <i>Taraxacum alpinum</i>
16	<i>Kalopanax septemlobus</i>	<i>Kalopanax septemlobus</i>	—
19	Senecioneae		<i>Cremanthodium humile</i> , <i>Parasenecio adenostyloides</i> , <i>Parasenecio firmus</i> , <i>Parasenecio subglaber</i> , <i>Syneilesis palmata</i>
20	<i>Plantago lanceolata</i>	<i>Plantago lanceolata</i>	<i>Plantago lagopus</i> , <i>Plantago leiopetala</i>
21	<i>Plantago</i> sp.	<i>Plantago asiatica</i> , <i>Plantago major</i>	<i>Plantago cornuti</i> , <i>Plantago erosa</i> , <i>Plantago hostifolia</i> , <i>Plantago uniglumis</i>
22	<i>Rudbeckia laciniata</i>	<i>Rudbeckia laciniata</i>	—
23	<i>Sagittaria trifolia</i>	<i>Sagittaria trifolia</i>	—
24	<i>Sinapis alba</i>	<i>Sinapis alba</i>	—
25	<i>Solanum nigrum</i>	<i>Solanum nigrum</i>	<i>Solanum americanum</i> , <i>Solanum clavatum</i> , <i>Solanum physalifolium</i>
26	<i>Solidago gigantea</i>	<i>Solidago gigantea</i>	—
27	<i>Solidago virgaurea</i>	<i>Solidago virgaurea</i>	—
28	<i>Tilia</i> sp.	<i>Tilia japonica</i> , <i>Tilia maximowicziana</i> , <i>Tilia miqueliana</i>	<i>Tilia koreana</i> , <i>Tilia oliveri</i> , <i>Tilia tuan</i>
29	<i>Trifolium pratense</i>	<i>Trifolium pratense</i>	<i>Trifolium caudatum</i> , <i>Trifolium cherleri</i>
30	<i>Trifolium repens</i>	<i>Trifolium repens</i>	—

^a Pollen pellets No. 8, 10, 11, 14, 17, 18, and 31 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).