Table S1. Samples for molecular phylogenetic analyses included in this study. Ribotypes and haplotypes are listed as revealed by the TCS-analysis (n.d. – not determined).

| Pop. no. | species | origin | Latitude | Longitude | ribotype | haplotype | Reference |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 43 | P. vulgaris | Monaco | 43.96306 | 7.86090 | Y | 27 | This study |
| 91 | P. vulgaris | Caucasus | 43.93500 | 39.80367 | A | 7 | Volkova et al. (2013) |
| 301 | P. vulgaris | Caucasus | 43.96850 | 39.30967 | C | 9 | Volkova et al. (2013) |
| 302 | P. vulgaris | Caucasus | 43.96417 | 39.30217 | C | 9 | Volkova et al. (2013) |
| 303 | P. vulgaris | Caucasus | 43.96517 | 39.29117 | C | 9 | Volkova et al. (2013) |
| 305 | P. vulgaris | Caucasus | 43.96617 | 39.25717 | C | 8 | Volkova et al. (2013) |
| 306 | P. vulgaris | Caucasus | 43.96700 | 39.25933 | n.d. | 8 | Volkova et al. (2013) |
| 308 | P. vulgaris | Caucasus | 43.97467 | 39.26217 | C | 10 | Volkova et al. (2013) |
| 309 | P. vulgaris | Caucasus | 43.87817 | 39.37233 | B | 24 | Volkova et al. (2013) |
| 311 | P. vulgaris | Caucasus | 43.88233 | 39.38300 | A | 24 | Volkova et al. (2013) |
| 312 | P. vulgaris | Caucasus | 43.73617 | 39.56050 | A | 20 | Volkova et al. (2013) |
| 314 | P. vulgaris | Caucasus | 43.73767 | 39.56767 | A | 20 | Volkova et al. (2013) |
| 320 | P. vulgaris | Caucasus | 43.33817 | 40.22733 | B | 25 | Volkova et al. (2013) |
| 322 | P. vulgaris | Caucasus | 43.33350 | 40.21083 | B | 11 | Volkova et al. (2013) |
| 323 | P. vulgaris | Caucasus | 43.16383 | 40.41733 | A | n.d. | Volkova et al. (2013) |
| 327 | P. vulgaris | Caucasus | 43.29383 | 40.01667 | B | n.d. | Volkova et al. (2013) |
| 401 | P. vulgaris | Caucasus | 44.15250 | 39.22883 | C | 10 | Volkova et al. (2013) |
| 404 | P. vulgaris | Caucasus | 43.55533 | 39.82433 | B | 7 | Volkova et al. (2013) |
| 407 | P. vulgaris | Caucasus | 44.12417 | 39.03983 | A | 9 | Volkova et al. (2013) |
| 418 | P. vulgaris | Caucasus | 43.82033 | 39.56283 | A | 22 | Volkova et al. (2013) |
| 419 | P. vulgaris | Caucasus | 43.83050 | 39.57417 | A | 7 | Volkova et al. (2013) |
| 420 | P. vulgaris | Caucasus | 43.80900 | 39.58967 | A | 20 | Volkova et al. (2013) |
| 421 | P. vulgaris | Caucasus | 43.49433 | 39.90383 | A | 7 | Volkova et al. (2013) |
| 603 | P. vulgaris | Caucasus | 44.37133 | 38.52417 | A | 9 | Volkova et al. (2013) |
| 604 | P. vulgaris | Caucasus | 44.25800 | 38.84583 | A | 9 | Volkova et al. (2013) |
| 606 | P. vulgaris | Caucasus | 44.29467 | 38.84133 | A | 9 | Volkova et al. (2013) |
| 608 | P. vulgaris | Caucasus | 43.63617 | 39.80417 | A | 7 | Volkova et al. (2013) |
| 609 | P. vulgaris | Caucasus | 44.13167 | 39.11617 | A | 9 | Volkova et al. (2013) |
| 610 | P. vulgaris | Caucasus | 44.04250 | 39.17117 | C | 9 | Volkova et al. (2013) |
| 703 | P. vulgaris | Caucasus | 43.99383 | 39.25178 | C | 9 | Volkova et al. (2013) |
| 704 | P. vulgaris | Caucasus | 43.78408 | 39.52808 | C | 23 | Volkova et al. (2013) |
| 705 | P. vulgaris | Caucasus | 43.73286 | 39.70467 | A | n.d. | Volkova et al. (2013) |
| 706 | P. vulgaris | Caucasus | 43.93647 | 39.48267 | C | 20 | Volkova et al. (2013) |
| 707 | P. vulgaris | Caucasus | 42.02800 | 48.26150 | D | 2 | Volkova et al. (2013) |
| 708 | P. vulgaris | Caucasus | 43.47722 | 40.54833 | A | 7 | Volkova et al. (2013) |
| 709 | P. vulgaris | Caucasus | 43.45028 | 40.54583 | A | 15 | Volkova et al. (2013) |
| 710 | P. vulgaris | Caucasus | 44.00083 | 39.66056 | C | 21 | Volkova et al. (2013) |
| 711 | P. vulgaris | Caucasus | 44.56083 | 38.41333 | A | 9 | Volkova et al. (2013) |
| 713 | P. vulgaris | Azerbaijan | 38.65056 | 48.77667 | n.d. | 55 | Volkova et al. (2013) |
| 715 | P. vulgaris | Azerbaijan | 38.64722 | 48.78467 | G | 55 | Volkova et al. (2013) |
| 716 | P. vulgaris | Middle Russia | 53.20000 | 32.28333 | F | 41 | Volkova et al. (2013) |
| 717 | P. vulgaris | Caucasus | 43.30528 | 40.33194 | B | 7 | Volkova et al. (2013) |
| 718 | P. vulgaris | Caucasus | 43.23694 | 40.50222 | M | 7 | Volkova et al. (2013) |
| 719 | P. vulgaris | Crimea | 44.51667 | 34.14383 | H | 30 | Volkova et al. (2013) |
| 721 | P. vulgaris | Crimea | 44.82633 | 34.41533 | H | 29 | Volkova et al. (2013) |
| 724 | P. vulgaris | Middle Russia | 53.71667 | 34.38833 | F | 28 | Volkova et al. (2013) |
| 725 | P. vulgaris | Caucasus | 41.72217 | 41.79750 | D | n.d. | Volkova et al. (2013) |
| 726 | P. vulgaris | Caucasus | 43.18067 | 45.40800 | E | n.d. | Volkova et al. (2013) |
| 728 | P. vulgaris | Caucasus | 43.66367 | 40.45000 | N | 12 | Volkova et al. (2013) |
| 729 | P. vulgaris | Caucasus | 44.71900 | 37.46550 | A | 9 | Volkova et al. (2013) |
| 734 | P. vulgaris | Caucasus | 41.96867 | 44.93683 | E | 4 | Volkova et al. (2013) |
| 737 | P. vulgaris | Crimea | 44.86667 | 34.60750 | H | 30 | Volkova et al. (2013) |
| 738 | P. vulgaris | Crimea | 44.80883 | 34.44517 | H | n.d. | Volkova et al. (2013) |
| 739 | P. vulgaris | Crimea | 44.65250 | 34.31783 | H | 31 | Volkova et al. (2013) |
| 804/1 | P. vulgaris | Caucasus | 44.19943 | 38.89394 | A | n.d. | This study |
| 804/2 | P. vulgaris | Caucasus | 44.19943 | 38.89394 | A | n.d. | This study |
| 804/3 | P. vulgaris | Caucasus | 44.19943 | 38.89394 | A | n.d. | This study |
| 804/4 | P. vulgaris | Caucasus | 44.19943 | 38.89394 | A | n.d. | This study |
| 810 | P. vulgaris | Caucasus | 42.73836 | 41.45533 | E | n.d. | This study |
| 811 | P. vulgaris | Caucasus | 42.69913 | 41.50807 | E | 3 | This study |
| 812 | P. vulgaris | Caucasus | 42.69336 | 41.48609 | E | 6 | This study |
| 813 | P. vulgaris | Caucasus | 42.79630 | 41.31376 | n.d. | 18 | This study |
| 814 | P. vulgaris | Caucasus | 42.93980 | 41.10670 | A | 17 | This study |
| 815 | P. vulgaris | Caucasus | 43.09644 | 40.68312 | B | 17 | This study |
| 816 | P. vulgaris | Caucasus | 43.14699 | 40.71505 | n.d. | 17 | This study |
| 818 | P. vulgaris | Caucasus | 43.08074 | 40.89682 | n.d. | 17 | This study |
| 820 | P. vulgaris | Caucasus | 43.21851 | 40.41914 | M | n.d. | This study |
| 821 | P. vulgaris | Caucasus | 43.25999 | 40.39493 | M | 17 | This study |
| 825 | P. vulgaris | Caucasus | 41.63273 | 42.17893 | D | 1 | This study |
| 826 | P. vulgaris | Caucasus | 41.58963 | 42.23800 | D | 1 | This study |
| 827 | P. vulgaris | Caucasus | 41.78095 | 41.96712 | D | 5 | This study |
| 828 | P. vulgaris | Caucasus | 42.13778 | 41.68008 | E | 2 | This study |
| 829/1 | P. vulgaris | Caucasus | 44.19581 | 39.01094 | A | n.d. | This study |
| 829/2 | P. vulgaris | Caucasus | 44.19581 | 39.01094 | A | n.d. | This study |
| 829/3 | P. vulgaris | Caucasus | 44.19581 | 39.01094 | A | n.d. | This study |
| 829/4 | P. vulgaris | Caucasus | 44.19581 | 39.01094 | A | n.d. | This study |
| 829/5 | P. vulgaris | Caucasus | 44.19581 | 39.01094 | A | n.d. | This study |
| 829/6 | P. vulgaris | Caucasus | 44.19581 | 39.01094 | A | n.d. | This study |
| 829/7 | P. vulgaris | Caucasus | 44.19581 | 39.01094 | A | n.d. | This study |
| 829/8 | P. vulgaris | Caucasus | 44.19581 | 39.01094 | A | n.d. | This study |
| 834 | P. vulgaris | Spain | 40.27456 | -4.97378 | F | 36 | This study |
| 835 | P. vulgaris | W Turkey | 41.12000 | 31.31000 | T | n.d. | This study |
| 838 | P. vulgaris | Caucasus | 43.42351 | 40.51542 | W | 16 | This study |
| 839 | P. vulgaris | Caucasus | 43.09106 | 40.80788 | B | 17 | This study |
| 840 | P. vulgaris | Caucasus | 43.83192 | 39.72488 | n.d. | 19 | This study |
| 841 | P. vulgaris | Caucasus | 43.85109 | 39.69815 | C | n.d. | This study |
| 851 | P. vulgaris | Caucasus | 43.71817 | 40.17173 | n.d. | 14 | This study |
| 852 | P. vulgaris | Caucasus | 43.71286 | 40.17863 | A | n.d. | This study |
| 853 | P. vulgaris | Caucasus | 43.69926 | 40.18424 | N | 13 | This study |
| 854 | P. vulgaris | Italy | 46.00583 | 11.97167 | W | n.d. | This study |
| 856 | P. vulgaris | Austria | 48.04556 | 16.06361 | n.d. | 27 | This study |
| 857 | P. vulgaris | Italy | 45.65392 | 10.43775 | n.d. | 27 | This study |
| 858 | P. vulgaris | Italy | 45.73719 | 10.97152 | Y | 37 | This study |
| 859 | P. vulgaris | Germany | 54.14797 | 9.20173 | F | n.d. | This study |
| 863 | P. vulgaris | France | 46.28397 | 6.00402 | n.d. | 27 | This study |
| 865 | P. vulgaris | Norway | 63.17287 | 10.33000 | n.d. | 39 | This study |
| 866 | P. vulgaris | Italy | 46.34444 | 11.23722 | n.d. | 27 | This study |
| A106 | P. vulgaris | NW Romania | 46.75256 | 22.55675 | F | 27 | This study |
| A169 | P. vulgaris | SW Ukraine | 48.95196 | 22.51170 | D | 38 | This study |
| A195 | P. vulgaris | SW Ukraine | 48.01554 | 23.98553 | O | 38 | This study |
| A60 | P. vulgaris | S Romania | 45.08111 | 22.41532 | F | 27 | This study |
| B06 | P. vulgaris | W Romania | 46.14797 | 23.17179 | F | 35 | This study |
| B65 | P. vulgaris | NW Greece | 39.95234 | 20.70914 | X | 26 | This study |
| CG | P. vulgaris | Montenegro | 42.10486 | 19.14892 | F | 27 | This study |
| CrD | P. vulgaris | NE Greece | 40.08388 | 22.40700 | X | 37 | This study |
| DD | P. vulgaris | Croatia | 45.74716 | 16.42845 | n.d. | 32 | This study |
| Hu121/1 | P. vulgaris | W Hungary | 46.83920 | 16.54169 | Q | 27 | This study |
| Hu121/6 | P. vulgaris | W Hungary | 46.83850 | 16.54352 | Q | 27 | This study |
| Hu121/11 | P. vulgaris | W Hungary | 46.83792 | 16.54347 | Q | 27 | This study |
| Hu132 | P. vulgaris | E Slovenia | 46.03225 | 15.68660 | F | 54 | This study |
| Hu136 | P. vulgaris | E Slovenia | 46.36636 | 15.91730 | F | 27 | This study |
| Hu138 | P. vulgaris | C Slovenia | 46.01650 | 15.27572 | F | 27 | This study |
| Hu145 | P. vulgaris | S Austria | 46.70938 | 15.79240 | Q | 27 | This study |
| Hu146 | P. vulgaris | E Slovenia | 46.76425 | 16.16570 | Q | 27 | This study |
| Hu260 | P. vulgaris | S Hungary | 45.88542 | 18.26147 | D | n.d. | This study |
| Hu37 | P. vulgaris | N Hungary | 47.84386 | 19.98514 | D | 35 | This study |
| Hu406 | P. vulgaris | NW Romania | 46.23583 | 22.32697 | F | n.d. | This study |
| Hu421 | P. vulgaris | N Slovakia | 48.93681 | 18.93850 | F | 27 | This study |
| Hu436 | P. vulgaris | NW Romania | 46.75256 | 22.55675 | D | 27 | This study |
| Hu468 | P. vulgaris | N Slovakia | 48.83697 | 19.00058 | D | 27 | This study |
| Hu470 | P. vulgaris | E Croatia | 45.42144 | 17.97575 | D | 32 | This study |
| Hu503 | P. vulgaris | E Croatia | 45.45880 | 18.04110 | D | 32 | This study |
| Hu510 | P. vulgaris | E Croatia | 45.48050 | 17.64936 | F | 33 | This study |
| Hu512 | P. vulgaris | NW Romania | 46.09731 | 22.78480 | F | 35 | This study |
| Hu523 | P. vulgaris | NW Romania | 46.50627 | 21.96961 | D | n.d. | This study |
| Hu529 | P. vulgaris | SW Hungary | 46.26653 | 16.91725 | n.d. | 50 | This study |
| Hu531 | P. vulgaris | N Romania | 47.38960 | 23.52110 | n.d. | 27 | This study |
| Hu73 | P. vulgaris | S Italy | 40.02138 | 16.27019 | V | n.d. | This study |
| Hu89 | P. vulgaris | S Italy | 37.88140 | 14.49570 | P | n.d. | This study |
| JCZ2 | P. vulgaris | Spain | 38.31056 | -2.60750 | S | 52 | This study |
| KYS | P. vulgaris | Slovakia | 48.92556 | 18.19861 | n.d. | 27 | This study |
| MVA1 | P. vulgaris | C Italy | 42.82483 | 12.90644 | U | 27 | This study |
| MVA2 | P. vulgaris | C Italy | 41.72433 | 14.03438 | F | 40 | This study |
| PrA46 | P. vulgaris | N Greece | 40.64551 | 21.09837 | X | 27 | This study |
| PrA48 | P. vulgaris | S England | 51.71401 | -1.21884 | F | 27 | This study |
| PrA51 | P. vulgaris | W Bulgaria | 42.59741 | 23.47838 | A | 53 | This study |
| PrA52 | P. vulgaris | C Serbia | 44.69984 | 20.51728 | D | 34 | This study |
| pvs1 | P. vulgaris | E Turkey | 41.04907 | 39.22894 | K | n.d. | Gultepe et al. (2010) |
| pvv1 | P. vulgaris | E Turkey | 41.07145 | 40.18525 | J | n.d. | Gultepe et al. (2010) |
| pvv2 | P. vulgaris | E Turkey | 41.02400 | 38.56367 | L | n.d. | Gultepe et al. (2010) |
| pvv3 | P. vulgaris | W Turkey | 41.95178 | 34.02033 | H | n.d. | Gultepe et al. (2010) |
| pvv4 | P. vulgaris | W Turkey | 41.96222 | 35.01233 | I | n.d. | Gultepe et al. (2010) |
| pvs2 | P. vulgaris | W Turkey | 41.96350 | 33.01233 | H | n.d. | Gultepe et al. (2010) |
| Ro1 | P. vulgaris | SW Romania | 44.60981 | 22.25298 | R | 27 | This study |
| Ro3 | P. vulgaris | W Romania | 46.97350 | 22.51109 | D | 27 | This study |
| SP1 | P. vulgaris | N Spain | 42.89593 | -8.35938 | F | n.d. | This study |
| TR1 | P. vulgaris | NW Turkey | 40.59547 | 31.23698 | n.d. | 51 | This study |
| PrAIre | P. vulgaris | Ireland | 53.02053 | -8.92055 | F | 42 | This study |
| PrACres | P. vulgaris | Croatia | 44.88390 | 14.41721 | n.d. | 47 | This study |
| PrAChartreuse | P. vulgaris | E France | 45.37009 | 5.79534 | f | 49 | This study |
| PrAEsp29 | P. vulgaris | N Spain | 42.11404 | 2.11510 | b | 48 | This study |
| PrAFr49 | P. vulgaris | E France | 43.85708 | 7.44802 | b | 44 | This study |
| PrABrog1 | P. vulgaris | W France | 49.01174 | 0.54417 | F | n.d. | This study |
| PrAChail23 | P. vulgaris | W France | 48.24240 | 0.84980 | F | 42 | This study |
| PrAChail1 | P. vulgaris | W France | 48.23575 | 0.85178 | F | 42 | This study |
| PrAChail19 | P. vulgaris | W France | 48.24088 | 0.84969 | F | n.d. | This study |
| PrALCan13 | P. vulgaris | W France | 44.43921 | 3.21772 | y | 42 | This study |
| PrAMontm1 | P. vulgaris | W France | 44.53117 | 6.43548 | d | 43 | This study |
| PrAMalz1 | P. vulgaris | E France | 48.71421 | 6.19674 | H | 46 | This study |
| K1668 | P. vulgaris | Serbia | 43.64398 | 19.83759 | F | 45 | This study |
| PrASaig2 | P. vulgaris | E France | 50.12952 | 1.73378 | F | n.d. | This study |
| PrAALF2 | P. vulgaris | E France | 46.87810 | 0.99715 | F | 44 | This study |
| PrANeamt | P. vulgaris | W Romania | 47.21928 | 26.28333 | D | 42 | This study |
| PrAKais | P. vulgaris | E Austria | 47.73588 | 15.79265 | D | n.d. | This study |
| 867 | P. vulgaris | Azerbaijan | 38.45220 | 48.76347 | G | 56 | This study |
| Outgroup | | | | | | | |
| MHA PrAl01 | P. algida (sect. Aleurita) | Caucasus | 41.28083 | 47.83000 |  |  | This study |
| MW 0702787 | P. auriculata (sect. Oreophlomis) | Caucasus | 43.797181 | 40.639969 | n.d. |  | This study |
| MHA PrDe01 | P. denticulata (sect. Denticulata) | India | 32.316 | 77.157 |  |  | This study |
| MW 0865252 | P. fedtschenkoi (sect. Fedtschenkoana) | Tadzhikistan | 37.52259 | 73.89229 | n.d. |  | This study |
| MHA PrJe01 | P. jesoana (sect. Cortusoides) | Korea | 38.17151 | 127.78262 |  |  | This study |
| MW 0637973 | P. macrocalyx (sect. Primula) | Caucasus | 44.89981 | 37.60206 |  |  | This study |
| MW 0621737 | P. macrocalyx (sect. Primula) | Crimea | 44.85639 | 34.93778 |  |  | This study |
| MHA PrSt01 | P. stricta (sect. Aleurita) | NE Europe | 69.331951 | 34.404594 | n.d. |  | This study |
| 723 | P. veris (sect. Primula) | Middle Russia | 53.50883 | 38.97683 | Z | v2 | Volkova et al. (2013) |
| 731 | P. veris (sect. Primula) | Middle Russia | 53.96467 | 37.16467 | Z | v1 | Volkova et al. (2013) |
| MW 0469378 | Cortusa matthioli | Southern Urals | 53.31667 | 57.70000 |  |  | This study |
| MHA HoPa01 | Hottonia palustris | Middle Russia | 54.67500 | 31.01667 |  |  | This study |

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