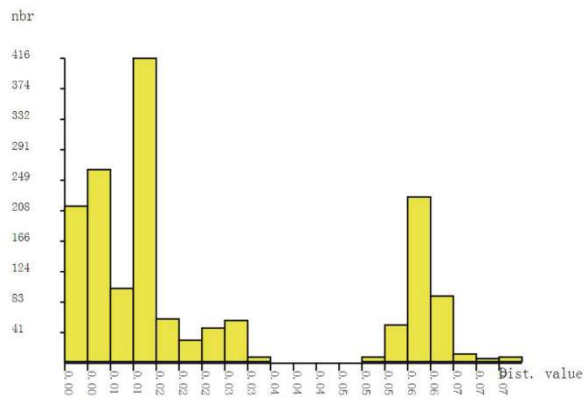
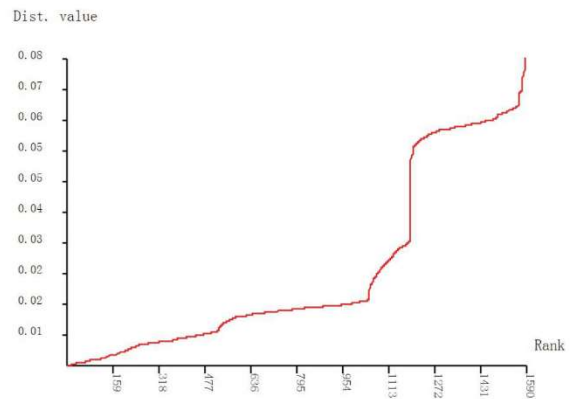


Figure S2: Species identification efficiency based on "Best Match".

(a) Histogram of distances



(b) Ranked distances



(c)

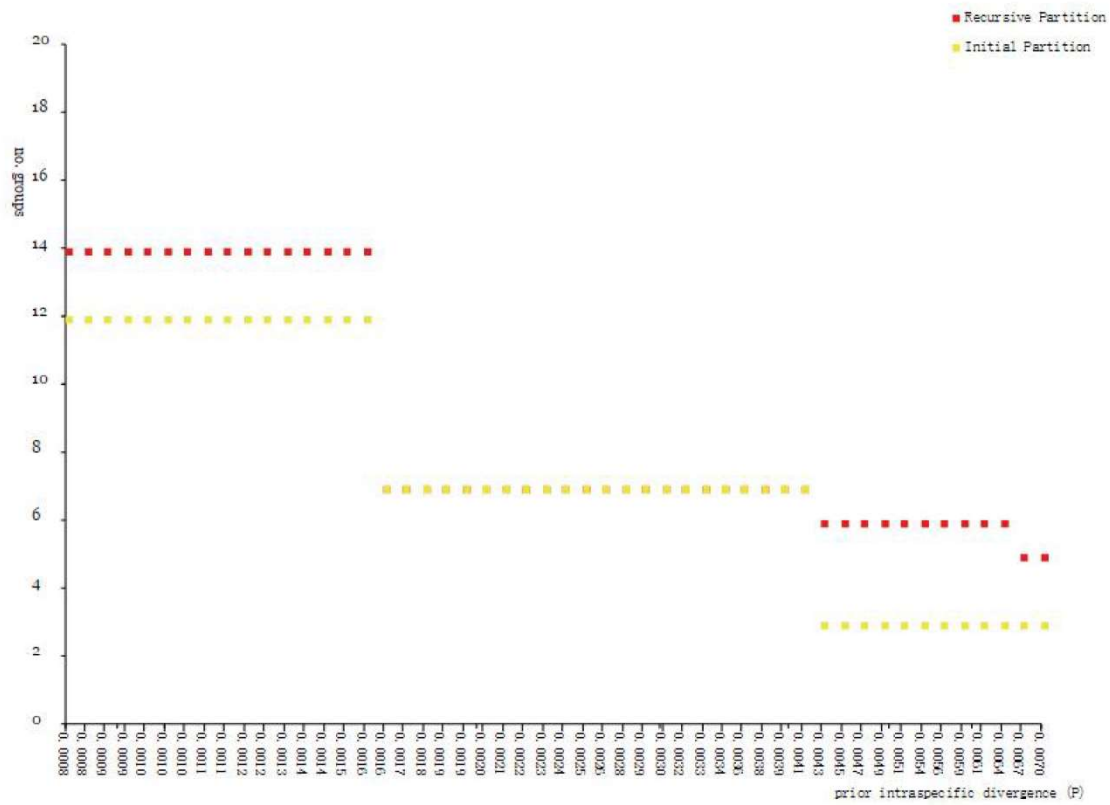


Figure S3: Graph of ABGD web results using K80 Kimura measure of distance.

Table S1: Collection details and NCBI accession numbers of samples used in this study.

Species	Locality of Collection	Longitude, Latitude and altitude	matK	psbA-trnH	rbcL	trnG
<i>Corydalis ambigua</i> 321	Ji'an City, China	E126°20'13.3"N41°22'42.8"H602.1m	MF573564	MF573619	MF573674	MF573729
<i>Corydalis ambigua</i> 52	Ji'an City, China	E126°20'14.2"N41°22'41.3"H614m	MF573565	MF573620	MF573675	MF573730
<i>Corydalis ambigua</i> 72	Tonghua City, China	E126°01'3.7"N41°43'15.9"H588m	MF573566	MF573621	MF573676	MF573731
<i>Corydalis ambigua</i> 92	Linjiang City, China	E126°45'34.5"N41°54'21.8"H656m	MF573567	MF573622	MF573677	MF573732

Corydalis buschii 322	Baishan City, China	E127°28'2.06"N42°09'34.45" H753m	MG748615	MG748617	MG748619	MG748621
Corydalis caudata 292	Suzhou City, China	E116°52'30.75"N34°10'01.59"H78m	MF573568	MF573623	MF573678	MF573733
Corydalis caudata 32	Luoyang City, China	E111°50'15.81"N33°41'26.87"H1463m	MF573569	MF573624	MF573679	MF573734
Corydalis caudata 35	Luoyang City, China	E111°50'15.85"N33°41'25.18"H1490m	MF573570	MF573625	MF573680	MF573735
Corydalis decumbens 1	Tongling City, China	E117°56'57.86"N30°54'07.75"H186m	MF573571	MF573626	MF573681	MF573736
Corydalis decumbens 16	Chuzhou City, China	E117°33'36.09"N32°52'48.87"H59m	MF573572	MF573627	MF573682	MF573737
Corydalis decumbens 17	Ma'anshan City, China	E118°34'53.74"N31°35'42.18"H130m	MF573573	MF573628	MF573683	MF573738
Corydalis decumbens 286	Huangshan City, China	E117°31'51.58"N30°00'53.99"H468m	MF573574	MF573629	MF573684	MF573739
Corydalis edulis 306	Chuzhou City, China	E117°33'38.92"N32°52'53.84"H81m	MF573575	MF573630	MF573685	MF573740
Corydalis fumariifolia 102	Jilin City, China	E126°37'23.67"N43°25'29.81"H591m	MF573576	MF573631	MF573686	MF573741
Corydalis fumariifolia 110	Shangzhi City, China	E127°33'17.47"N45°17'44.99"H329m	MF573577	MF573632	MF573687	MF573742
Corydalis fumariifolia 111	Mudanjiang City, China	E128°54'39.1"N44°03'36.2" H355m	MF573578	MF573633	MF573688	MF573743
Corydalis fumariifolia 309	Huinan County, China	E126°35'39.9"N42°32'7.8"H649m	MF573579	MF573634	MF573689	MF573744
Corydalis fumariifolia 313	Huinan County, China	E126°16'59.1"N42°26'3.2"H389.7m	MF573580	MF573635	MF573690	MF573745
Corydalis fumariifolia 314	Tonghua City, China	E126°35'38.08"N42°31'56.04"H620m	MF573581	MF573636	MF573691	MF573746
Corydalis fumariifolia 318	Harbin City, China	E127°33'47.19"N45°17'39.51"H353m	MF573582	MF573637	MF573692	MF573747
Corydalis fumariifolia 62	Benxi City, China	E124°53'15.92"N41°19'3.84"H1220m	MF573583	MF573638	MF573693	MF573748
Corydalis huangshanensis 295	Huangshan District, China	E118°08'50.04"N30°05'14.92"H639m	MF573584	MF573639	MF573694	MF573749
Corydalis huangshanensis 296	Huangshan District, China	E118°09'44.58"N30°03'39.03" H600m	MF573585	MF573640	MF573695	MF573750
Corydalis humilis 211	Dongchang District, China	E125°59'24.7"N41°44'25.9"H443.9m	MF573586	MF573641	MF573696	MF573751
Corydalis humilis 212	Ji'an City, China	E125°43'16.05"N41°14'40.89"H604m	MF573587	MF573642	MF573697	MF573752
Corydalis humilis 248	Liuhe County, China	E126°10'2.4"N42°07'49.1"H591.8m	MF573588	MF573643	MF573698	MF573753
Corydalis humilis 307	Huinan County, China	E126°35'44.79"N42°32'12.95"H633m	MF573589	MF573644	MF573699	MF573754
Corydalis humilis 308	Tonghua City, China	E126°35'53.31"N42°32'7.35"H700m	MF573590	MF573645	MF573700	MF573755
Corydalis humosa 26	Song County, China	E111°50'11.38"N33°41'20.78"H1650m	MF573591	MF573646	MF573701	MF573756
Corydalis humosa 27	Song County, China	E111°50'11.38"N33°41'20.77"H1648m	MF573592	MF573647	MF573702	MF573757
Corydalis humosa 28	Song County, China	E111°50'11.37"N33°41'20.66"H1640m	MF573593	MF573648	MF573703	MF573758
Corydalis kiautschouensis 221	Benxi City, China	E125°25'10.4"N41°13'14.0"H440m	MF573594	MF573649	MF573704	MF573759
Corydalis kiautschouensis 297	Weihai City, China	E122°06'6.1"N37°28'57.8"H225m	MF573595	MF573650	MF573705	MF573760
Corydalis kiautschouensis 299	Muping district, China	E121°50'09.45"N37°12'15.61"H125m	MF573596	MF573651	MF573706	MF573761
Corydalis kiautschouensis 300	Yantai City, China	E121°50'19.5"N37°12'15.77"H119m	MF573597	MF573652	MF573707	MF573762

<i>Corydalis linjiangensis</i> 166	Tonghua City, China	E126°05'5.9"N41°53'56.4"H930m	MF573598 MF573653 MF573708 MF573763
<i>Corydalis linjiangensis</i> 42	Linjiang City, China	E126°42'6.7"N41°51'14.9"H1041m	MF573599 MF573654 MF573709 MF573764
<i>Corydalis linjiangensis</i> 43	Linjiang City, China	E126°45'10.0"N41°54'33.6"H710m	MF573600 MF573655 MF573710 MF573765
<i>Corydalis linjiangensis</i> 47	Baishan City, China	E126°40'14.27"N41°53'32.47"H819m	MF573601 MF573656 MF573711 MF573766
<i>Corydalis schanginii</i> 29	Aletai City, China	E88°08'58.53"N47°50'01.38"H1003m	MF573602 MF573657 MF573712 MF573767
<i>Corydalis schanginii</i> 30	Fuhai County, China	E87°29'04.12"N47°06'14.41"H497m	MG748616 MG748618 MG748620 MG748622
<i>Corydalis schanginii</i> 31	Aletai City, China	E87°20'12.13"N47°49'37.85"H992m	MF573603 MF573658 MF573713 MF573768
<i>Corydalis turtschaninovii</i> 162	Dongchang District, China	E126°19'45.6"N41°26'58.1"H678m	MF573604 MF573659 MF573714 MF573769
<i>Corydalis turtschaninovii</i> 164	Dongchang District, China	E126°20'01.49"N41°26'51.72"H711m	MF573605 MF573660 MF573715 MF573770
<i>Corydalis turtschaninovii</i> 170	Jilin City, China	E126°37'40.80"N43°25'27.89"H607m	MF573606 MF573661 MF573716 MF573771
<i>Corydalis turtschaninovii</i> 315	Huinan County, China	E126°35'42.1"N42°32'8.3"H671m	MF573607 MF573662 MF573717 MF573772
<i>Corydalis turtschaninovii</i> 316	Baishan City, China	E127°17'12.4"N41°30'47.0"H699m	MF573608 MF573663 MF573718 MF573773
<i>Corydalis turtschaninovii</i> 317	Liaoyuan City, China	E125°17'12.4"N42°23'49.6"H420m	MF573609 MF573664 MF573719 MF573774
<i>Corydalis watanabei</i> 252	Tonghua City, China	E126°18'24.94"N41°23'50.48"H813m	MF573610 MF573665 MF573720 MF573775
<i>Corydalis watanabei</i> 257	Benxi City, China	E124°53'55.7"N41°18'4.5"H822m	MF573611 MF573666 MF573721 MF573776
<i>Corydalis watanabei</i> 265	Linjiang City, China	E126°42'00.14"N41°51'10.03"H993m	MF573612 MF573667 MF573722 MF573777
<i>Corydalis watanabei</i> 273	Harbin City, China	E127°33'33.4" N45°21'13.8"H400m	MF573613 MF573668 MF573723 MF573778
<i>Corydalis yanhusuo</i> 24	Hefei City, China	E117°10'18.88"N31°50'31.21"H232m	MF573614 MF573669 MF573724 MF573779
<i>Corydalis yanhusuo</i> 275	Chuzhou City, China	E117°59'39.41"N32°03'23.15"H90m	MF573615 MF573670 MF573725 MF573780
<i>Corydalis yanhusuo</i> 280	Mingguang City, China	E118°14'02.33"N32°37'29.13"H318m	MF573616 MF573671 MF573726 MF573781
<i>Corydalis yanhusuo</i> 283	Jinhua City, China	E120°27'06.12"N29°03'28.18"H363m	MF573617 MF573672 MF573727 MF573782
<i>Corydalis yanhusuo</i> 289	Nanjing City, China	E118°57'52.10"N32°30'06.05"H137m	MF573618 MF573673 MF573728 MF573783

Table S2: The universal amplification primers used in this study.

Primer name	Length	Sequence	References/sources
matK1166	16	GGCTTACTAATGGGAT	Pérez-Gutiérrez et al. 2015 [11]
matK192	20	CGGGTTGCAAMAATAAAGGA	Pérez-Gutiérrez et al. 2015 [11]
psbA	22	GTTATGCATGAACGTAATGCTC	Sang et al. 1997 [23]
trnH	23	CGCGCATGGTGGATTCACAATCC	Tate and Simpson 2003 [24]
trnG	23	GTAGCGGGAATCGAACCCGCATC	Shaw et al. 2005 [25]
trn2G	23	GCGGGTATAGTTTACTGGTAAAA	Shaw et al. 2005 [25]
rbcL-1F	20	ATGTCACCACAAACAGAAAC	Kress et al. 2005 [26]
rbcL-724R	20	TCGCATGTACCTGCAGTAGC	Kress et al. 2005 [26]
ITS4	20	TCCTCCGCTTATTGATATGC	Baldwin et al. 1992 [27]

ITS5B	22	GGAAGGAGAAGTCGTAACAAGG	Baldwin et al. 1992 [27]
ITS2F	20	ATGCGATACTTGGTGTGAAT	Hou et al. 2013 [28]
ITS3R	21	GACGCTTCTCCAGACTACAAT	Hou et al. 2013 [28]
