

Supplementary Information, Table S2. Datasets for construction of Genus *Panax* cDNA database

| Dataset^a | Plant | Organ | Year-old | Sampling location | Sequence method | Bases/reads | References |
|----------------------------|----------------------------|-------------------------|-----------------|--------------------------|------------------------|--------------------|-------------------|
| SRS006698 | <i>Panax quinquefolius</i> | root | 4 | Beijing | 454 | 113.4M | [1] |
| SRX017444 | <i>Panax notoginseng</i> | root | 4 | Yunnan province | 454 | 99.9M | [2] |
| SRS024769 | <i>Panax ginseng</i> | root | 11 | Liaoning province | 454 | 116.9M | [3] |
| ERS093423 ^b | <i>Panax ginseng</i> | root | 5 | Ji Lin province | HiSeq 2000 | 3.6G | / |
| ERS088918 ^b | <i>Panax ginseng</i> | stem | 5 | Ji Lin province | HiSeq 2000 | 3.5G | / |
| ERS088917 ^b | <i>Panax ginseng</i> | leaf | 5 | Ji Lin province | HiSeq 2000 | 3.5G | / |
| LIBEST_018294 | <i>Panax ginseng</i> | leaf | / | / | Sanger | 3160 reads | [4] |
| LIBEST_026760 | <i>Panax ginseng</i> | root | / | / | Sanger | 4226 reads | [5] |
| LIBEST_015794 | <i>Panax ginseng</i> | MeJA treated hairy root | / | / | Sanger | 3135 reads | [6] |

^a accession number for SRA (Sequence Read Archive) or number for cDNA library in NCBI (<http://www.ncbi.nlm.nih.gov/>).

^b These datasets were available from DNA Data Bank of Japan (<http://www.ddbj.nig.ac.jp/searches-e.html>)

References

- 1 Sun C, Li Y, Wu Q *et al.* De novo sequencing and analysis of the American ginseng root transcriptome using a GS FLX Titanium platform to discover putative genes involved in ginsenoside biosynthesis. *BMC Genomics* 2010; **11**:262.
- 2 Luo H, Sun C, Sun Y *et al.* Analysis of the transcriptome of *Panax notoginseng* root uncovers putative triterpene saponin-biosynthetic genes and genetic markers. *BMC Genomics* 2011; **12**:S5.
- 3 Chen S, Luo H, Li Y *et al.* 454 EST analysis detects genes putatively involved in ginsenoside biosynthesis in *Panax ginseng*. *Plant Cell Rep* 2011; **30**:1593-1601.
- 4 Kim MK, Lee B-S, In J-G, Sun H, Yoon J-H, Yang D-C. Comparative analysis of expressed sequence tags (ESTs) of ginseng leaf. *Plant Cell Rep* 2006; **25**:599-606.
- 5 Han J-Y, Kim H-J, Kwon Y-S, Choi Y-E. The Cyt P450 enzyme CYP716A47 catalyzes the formation of protopanaxadiol from dammarenediol-II during ginsenoside biosynthesis in *Panax ginseng*. *Plant Cell Physiol* 2011; **52**:2062-2073.
- 6 Choi D-W, Jung J, Im Ha Y *et al.* Analysis of transcripts in methyl jasmonate-treated ginseng hairy roots to identify genes involved in the biosynthesis of ginsenosides and other secondary metabolites. *Plant Cell Rep* 2005; **23**:557-566.