



Supplementary Material

Supplementary Figure

Figure S1A

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1      ATGAGCGATCTGAAGACGAGATTTCTGGAGGTGTACTCTGTTCTGAAATCCGAGCTACTC
1      M S D L K T R F L E V Y S V L K S E L L
61     AACGACCCTGCTTTCGAGTTCACCGATGATTCTCGCCAATGGGTCGAGCGGATGCTGGAC
21     N D P A F E F T D D S R Q W V E R M L D
121    TATAATGTGCCTGGAGGAAAGCTGAACCGAGGGCTGTCTGTTATTGACAGCTACAAGTTA
41     Y N V P G G K L N R G L S V I D S Y K L
181    CTGAAAGAAGGAAAAGAACTAAGTGATGATGAAATTTTCTTTCAAGTGCACTTGGTTGG
61     L K E G K E L S D D E I F L S S A L G W
241    TGCATTGAATGGCTTCAAGCTTATTTTCTGGTGCTTGATGATATTATGGATAGCTCTCAT
81     C I E W L Q A Y F L V L D D I M D S S H
301    ACGCGCAGAGGTCAACCTGTGGTTCAGATTACCTAAGGTTGGTATGATTGCCGTAAAT
101    T R R G Q P C W F R L P K V G M I A V N
361    GATGGCATATTACTTCGCAACCATAACCCAAGGATTCTCAAGAAGCATTTCGACAAAAAG
121    D G I L L R N H T P R I L K K H F R Q K
421    CCTTACTATGTGGATCTGTTGGATCTATTTAATGAGGTAGAATTCAGACAGCTTGTGGA
141    P Y Y V D L L D L F N E V E F Q T A C G
481    CAGATGGTAGATTGATCACCACCCTGTAGGAGAGAAAGACTTGTGAAATACTCATTG
161    Q M V D L I T T L V G E K D L S K Y S L
541    CCCATTATCGCCGGATTGTGCAGTACAAAAGCTTACTACTCATTTTACCTTCCAGTG
181    P I H R R I V Q Y K T A Y Y S F Y L P V
601    GCCTGTGCACTTCTTATGTCAGGTGAAGATCTGGAGAAACATACTAATGTAAAGGACATA
201    A C A L L M S G E D L E K H T N V K D I
661    CTTATTGAAATGGGAACCTATTTTCAAGTGCAGGATGATTATCTGGATTGCTTTGGTGCA
221    L I E M G T Y F Q V Q D D Y L D C F G A
721    CCTGAGGTGATTGGGAAGATTGGCACAGATATTGAAGATTTCAAGTGCTCCTGGTTGGTA
241    P E V I G K I G T D I E D F K C S W L V
781    GTAAAAGCACTGGAACCTTTCTAACGAGGAACAAAAGAAGTTTTTACATGAGAACTATGGA
261    V K A L E L S N E E Q K K F L H E N Y G
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841 AAGGATGATCCGGCCTCTGTAGCAAAAGTGAAAGAGCTTTATAAACTCTCAAGCTTCAG
 281 K D D P A S V A K V K E L Y N T L K L Q
 901 GATGTATTTGCCGAGTATGAGAGCAAGAGCTATGACAAGTTGATCAAATTCATTGAAGCT
 301 D V F A E Y E S K S Y D K L I K F I E A
 961 CATCCGAGCCAAGCGGTACAAGCAGTGTTAAAATCATTCTTGGGAAAGATATATAAGCGG
 321 H P S Q A V Q A V L K S F L G K I Y K R
 1021 CAAAAGTAA
 341 Q K *

Figure S1B

1 ATGGGAAGTTTGGGGCAATTCTGAAGCATCCGGACGATTTCTATCCGTTATTGAAGCTT
 1 M G S L G A I L K H P D D F Y P L L K L
 61 AAATTTGCGGCTAGGCATGCGGAAAAGCAGATCCCTCCGGAGCCACACTGGGCCTTCTGT
 21 K F A A R H A E K Q I P P E P H W A F C
 121 TACTCTATGCTTCATAAGGTTTCTCGAAGTTTGGCCTCGTCATTCAACAGCTCGGCCCT
 41 Y S M L H K V S R S F G L V I Q Q L G P
 181 CAGCTCCGGCATGCTGTATGCATTTTTTATTTGGTTCTTCGAGCACTTGACACTGTTGAG
 61 Q L R D A V C I F Y L V L R A L D T V E
 241 GATGACACAAGTATACCTACAGAGGTAAAGTACCTATCTTGATGGCTTTTCATTGCCAC
 81 D D T S I P T E V K V P I L M A F H C H
 301 ATATATGATAAGGACTGGCACTTTTCATGTGGTACGAAGGAATACAAAGTTCTCATGGAC
 101 I Y D K D W H F S C G T K E Y K V L M D
 361 GAGTTTCATCATGTTTCTAATGCTTTTCTGGAGCTTGAAACGGTTACCAGGAGGCAATA
 121 E F H H V S N A F L E L G N G Y Q E A I
 421 GAAGATATTACCATGAGAATGGGTGCAGGAATGGCAAAATTTATATGCAAGGAGTGGAG
 141 E D I T M R M G A G M A K F I C K E V E
 481 ACAATAGATGATTATGATGAATATTGCTACTATGTAGCAGGACTTGTGGATTAGGGTTG
 161 T I D D Y D E Y C H Y V A G L V G L G L
 541 TCAAAGCTCTCCATGCCTCTGGGGCAGAAGATTGGCTACAGATTTTCTGTCCAATTCA
 181 S K L F H A S G A E D L A T D F L S N S
 601 ATGGGTTTATTTCTCAGAAGACAAACATAATTCGAGATTACTTGGAGGACATAAATGAG
 201 M G L F L Q K T N I I R D Y L E D I N E
 661 ATACCAAAGTCACGCATGTTTGGCCTCGCCAGATTTGGAGTAAATATGTCGATAAACTT
 221 I P K S R M F W P R Q I W S K Y V D K L

721 GAGGACTTAAATATGAGGAAAACCTAGCCAAGGCAGTGCGGTGCCTAAATGACATGGTC
 241 E D L K Y E E N S A K A V R C L N D M V
 781 ACAAATGCTTTGGTTCATGCTGAAGATTGCCTAAAGTACATGTCTGACTTGCGAGATCCT
 261 T N A L V H A E D C L K Y M S D L R D P
 841 GCTATCTTCCGGTCTGTGCAATACCACAGATTATGGCAATTGGAACACTAGCTTTATGC
 281 A I F R F C A I P Q I M A I G T L A L C
 901 TTCAACAACACTCAAGTCTTCAGAGGGTAGTGAAAATGAGACGTGGTCTTACTGCTAAA
 301 F N N T Q V F R G V V K M R R G L T A K
 961 GTTATAGACCGAACAAAAACAATGTCAGATGTATATGGTGCTTCTTCGATTTTTCTTGT
 321 V I D R T K T M S D V Y G A F F D F S C
 1021 TTGCTGAAGTCCAAGGTGACAACAATGATCCCAATGCTACAAAACTTTGAGCAGGCTA
 341 L L K S K V D N N D P N A T K T L S R L
 1081 GAAGCAATTCAGAAAACATGCAAGGAGTCTGGAACCCGTGCCAAAAGGAAATCATACATA
 361 E A I Q K T C K E S G T L S K R K S Y I
 1141 ATCGAGAGCGAGTCAGGACACAATTCAGCCCTGATTGCTATTATCTTCATTATACTAGCT
 381 I E S E S G H N S A L I A I I F I I L A
 1201 ATCCTTTATGCATATCTATCTTCAAACCTACTACCGAACAAACAGTGA
 401 I L Y A Y L S S N L L P N K Q *

Figure S1C

1 ATGAATTCATCTTCTTCTACTAGTACTACTGATACGTTGCATTCTTTTATGGAAGCTCTG
 1 M N S S S S T S T T D T L H S F M E A L
 61 CTCATTGATCAATATTTTCTTGGATGGATCTTTGCTTTCCTTTTGGGTTCTGCTCTTG
 21 L I D Q Y F L G W I F A F L F G F L L L
 121 CTTAATTTCAAAAGGAAGAGAGAGAAAAATAATTCCACGAGTTTGAACAGATCATAGC
 41 L N F K R K R E K N N S T E F G T D H S
 181 AACGGATACTACATACCGGAAAAATATTGCCGGAAGTACGGACGTCATCATCGTCGGCGCC
 61 N G Y Y I P E N I A G S T D V I I V G A
 241 GGGGTTGCTGGCTCTGCTCTTGTCTTATACGCTTGCCAAAGATGGCCGAGAGTTTCATGTT
 81 G V A G S A L A Y T L A K D G R R V H V
 301 ATTGAGAGGGACTTAACTGAGCAAGACAGAATTGTAGGTGAACCTTCTACAACCAGGAGGC
 101 I E R D L T E Q D R I V G E L L Q P G G
 361 TACTTGAAATTGATTGAATTAGGGCTAGAGGATTGTGTGAATGAAATCGATGCGCAACGA
 121 Y L K L I E L G L E D C V N E I D A Q R

421 GTTTTGGATATGCCCTTTACATGGATGGTAAAAACACCAGGCTTTCTTACCCCTTGGAG
141 V F G Y A L Y M D G K N T R L S Y P L E
481 AAATTCATTTCGGATGTAGCTGGAAGAAGCTTTCATAACGGCCGTTTGTTCACGAATG
161 K F H S D V A G R S F H N G R F V Q R M
541 AGGGAGAAAGCTGCATCACTTCCAAACGTAAGAATGGAACAGGGGACTGTTACATCTCTG
181 R E K A A S L P N V R M E Q G T V T S L
601 GTTGAGAAAAAGGGAAGTGTAAGGGGTGCAATACAAAACCAAGGATGGCCAAGAATG
201 V E K K G S V K G V Q Y K T K D G Q E L
661 TCTGCATTTGCTCCTCTTACAATTGTTTGTGATGGTTGTTTTCGAATCTCCGTCGCTCC
221 S A F A P L T I V C D G C F S N L R R S
721 CTCTGCAATCCCAAGGTGGAGGTGCCTTCGTGTTTGTGGTTTGATTTTGAAAAATATT
241 L C N P K V E V P S C F V G L I L E N I
781 GATCTTCCACATATAAACCATGGCCATGTCATTCTAGCAGATCCTTCTCCGATCTTGTTT
261 D L P H I N H G H V I L A D P S P I L F
841 TATAAAATTAGTAGTACCGAGATTTCGCTGTTTGGTTGATTTGCCTGGACAAAAGGTGCCT
281 Y K I S S T E I R C L V D L P G Q K V P
901 TCTATTTCTAATGGGGAATTGGCTAATTATCTCAAGACAGTAGTAGCTCCTCAGGTTCCA
301 S I S N G E L A N Y L K T V V A P Q V P
961 AAACAGCTATATAACTCTTTCATAGCAGCAGTTGACAAAGGAAACATTCGAACCATGCCA
321 K Q L Y N S F I A A V D K G N I R T M P
1021 AACAGAAGCATGCCAGCTGATCCTCATCCAACCTCCGGGTGCACTTCTATTAGGGGATGCT
341 N R S M P A D P H P T P G A L L L G D A
1081 TTCAATATGCGCCATCCTTTAACCGGCGGGGAATGACAGTTGCTCTGTCTGATATTGTC
361 F N M R H P L T G G G M T V A L S D I V
1141 TTGATCCGGGATCTTCTTAGACCCTTATGCGATCTCCATGACTCATCAACCTCTGCAAA
381 L I R D L L R P L C D L H D S S T L C K
1201 TATCTCGAATCCTTTTACACCCTTCGTAAGCCCGTGGCATCTACTATAAATACATTGGCA
401 Y L E S F Y T L R K P V A S T I N T L A
1261 GGTGCCCTTTATAAAGTTTTTGTGCATCACCTGATAAGCAAGGCAAGAAATGCGCAAT
421 G A L Y K V F C A S P D K A R Q E M R N
1321 GCGTGTTTTGATTATCTGAGCCTCGGAGGAATTTGTTCCCAAGGGCCAATTGCTTTACTT
441 A C F D Y L S L G G I C S Q G P I A L L
1381 TCTGGCCTAAACCGCGTCCAATTAGCCTATTTCTCCACTTCTTTGCCGTGGCTATCTAT
461 S G L N P R P I S L F L H F F A V A I Y
1441 GGCGTTGGCCGCTTGTTGATTCTTTTCTTCACCAAAACGAATGTGGCTCGGCGCTAGA

481 **G V G R L L I P F** P S P K R M W **L G A R**
 1501 TTGATTTTGGGTGCATCTGGAATTATTTCCCTATTATAAAGTCAGAAGGACTTCGACAA
 501 **L I L G A S G I I F P I I** K S E G L R Q
 1561 ATGTTCTTCCCTGCAACTGTTCTGCTTACTACAGAGCTCCCCCATTCTACTAA
 521 M F F P A T V P A Y Y R A P P I H *

Figure S1D

1 ATGTGGAAGCTGAAGGTTGCTCAAGGAAATGATCCATATTTGTATAGCACTAACAACCTTT
 1 M W K L K V A Q G N D P Y L Y S T N N F
 61 GTTGGCAGACAATATTGGGAGTTTCAGCCCGATGCTGGTACTCCAGAAGAGAGGGAAGAG
 21 V G R Q Y W E F Q P D A G T P E E R E E
 121 GTTGAAAATGCACGCAAGGATTATGTAAACAATAAAAAGCTACATGGAGTTCATCCATGC
 41 V E N A R K D Y V N N K K L H G V H P C
 181 AGTGATATGCTGATGCGCAGGCAGCTTATTAAAGAAAGTGAATCGATCTCCTAAGCATA
 61 S D M L M R R Q L I K E S G I D L L S I
 241 CCGCCGGTGAGATTAGATGAAAACGAACAAGTGAAGTACGATGCAGTTACAACCGCTGTG
 81 P P V R L D E N E Q V N Y D A V T T A V
 301 AAGAAAGCTCTTCGATTGAACCGGGCAATTCAAGCACACGATGGTCACTGGCCAGCTGAA
 101 K K A L R L N R A I Q A H D G H W P A E
 361 AATGCAGGCTCTTTACTTTATACACCTCCCCTTATCATTGCCCTATATATCAGCGGAACG
 121 N A G S L L Y T P P L I I A L Y I S G T
 421 ATTGACACTATTCTGACAAAACAACAAGAAGGAACTGATTCGCTTCGTTTACAACCAT
 141 I D T I L T K Q H K K E L I R F V Y N H
 481 CAAAATGAGGATGGTGGATGGGGATCCTATATTGAGGGGCACAGCACGATGATTGGGTCA
 161 Q N E D G G W G S Y I E G H S T M I G S
 541 GTACTTAGCTTCGTGATGTTACGTTTGCTAGGAGAAGGATTAGCTGAATCTGATGATGGA
 181 V L S F V M L R L L G E G L A E S D D G
 601 AATGGTGCAGTTGAGAGAGGCCGGAAGTGGATACTTGATCATGGAGGTGCAGCCAGCATA
 201 N G A V E R G R K W I L D H G G A A S I
 661 CCCTCTGGGGAAAGACTTATCTAGCGGTGCTTGGAGTATATGAGTGGGAAGGGTGCAAC
 221 P S W G K T Y L A V L G V Y E W E G C N
 721 CCGCTGCCCCAGAAATTCTGGCTTTTCCCTTCAAGTTTTCCTTTTCATCCAGCAAAAATG
 241 P L P P E F W L F P S S F P F H P A K M
 781 TGGATCTACTGCCGGTGTACCTACATGCCAATGTCGTATTTGTATGGGAAGAGATATCAT

261 W I Y C R C T Y M P M S Y L Y G K R Y H
841 GGACCAATAACCGATCTTGTTTATCTTTGAGACAAGAAATTTACAACATTCCTTATGAG
281 G P I T D L V L S L R Q E I Y N I P Y E
901 CAGATAAAGTGAATCAACAGCGCCATAACTGTTGCAAGGAGGATCTCTACTACCTCAT
301 Q I K W N Q Q R H N C C K E D L Y Y P H
961 TCCCTTGTAAGACCTGGTTTGGGATGGTCTTCACTACTTTAGTGAACCATTCCTCAAA
321 S L V Q D L V W D G L H Y F S E P F L K
1021 CGTTGGCCCTTCAACAACTGCGAAAAAGAGGTCTAAAAAGAGTGGTTGAACTAATGCGC
341 R W P F N K L R K R G L K R V V E L M R
1081 TATGGTGCCACCGAGACCAGATTCATAACCACAGGAAATGGGGAAAAAGCTTTACAAATA
361 Y G A T E T R F I T T G N G E K A L Q I
1141 ATGAGTTGGTGGGCAGAAGATCCCAATGGTGATGAGTTTAAACATCACCTTGCTAGAATT
381 M S W W A E D P N G D E F K H H L A R I
1201 CCTGATTCTTATGGATTGCTGAGGATGGAATGACAGTACAGAGTTTTGGTAGTCAACTA
401 P D F L W I A E D G M T V Q S F G S Q L
1261 TGGGACTGTATTCTTGCTACTCAAGCAATTATCGCCACCAATATGGTTGAAGAATACGGA
421 W D C I L A T Q A I I A T N M V E E Y G
1321 GATTCTCTTAAGAAGGCGCATTTCTTCATCAAAGAATCGCAGATAAAAGAAAAATCCAAGA
441 D S L K K A H F F I K E S Q I K E N P R
1381 GGAGACTTCTTAAAAATGTGTCGACAGTTTACTAGAGGTGCGTGGACTTTCTCTGATCAA
461 G D F L K M C R Q F T R G A W T F S D Q
1441 GATCATGGTTGCGTTGTCTCGGACTGCACAGCTGAAGCACTAAAGTGCCTTCTGTTACTT
481 D H G C V V S D C T A E A L K C L L L L
1501 TCACAAATGCCACAGGACATTGCCGAGAAAAACCTAAGGTTGAGCGATTATATGAGGCT
501 S Q M P Q D I A G E K P K V E R L Y E A
1561 GTGAATGTTCTTCTCTATTGTCAGAGTCGTGAAGTGGTGGCTTCGCAGTTGGGAGCCT
521 V N V L L Y L Q S R V S G G F A V W E P
1621 CCAGTTCCAAAACCATATTTGGAGATGTTGAATCCTTCAGAAATTTTGCAGACATTGTT
541 P V P K P Y L E M L N P S E I F A D I V
1681 GTTGAGAGAGAGCACATTGAATGCACTGCATCTGTAATCAAAGGTCTGATGGCATTAAAA
561 V E R E H I E C T A S V I K G L M A F K
1741 TGCTTGCACTCTGGGCATCGTCAGAAAGAGATAGAGGATTCTGTGGCGAAAGCCATCCGT
581 C L H P G H R Q K E I E D S V A K A I R
1801 TATCTTGAAAGAAACCAATGCCTGATGGTTCATGGTATGGCTTTTGGGGAATTTGTTTC
601 Y L E R N Q M P D G S W Y G F W G I C F

1861 CTCTATGGGACATTTTTACCCTATCAGGGTTGCTTCTGCTGGGAGGACTTATGACAAC
621 L Y G T F F T L S G F A S A G R T Y D N
1921 AGTGAAGCAGTTCGTAAGGGTGTTAAATTTTCTTTCAACACAAAATGAAGAAGGTGGT
641 S E A V R K G V K F F L S T Q N E E G G
1981 TGGGGGAGAGTCTTGAATCATGCCAAGCGAGAAATTTACACCACTCAAGGGAACAGG
661 W G E S L E S C P S E K F T P L K G N R
2041 ACAAATCTAGTACAAACATCATGGGCTATGCTAGGTCTTATGTTTGGTGGACAGGCCGAG
681 T N L V Q T S W A M L G L M F G G Q A E
2101 AGAGATCCGACACCTCTGCATAGAGCAGCGAAGTTGTTGATCAATGCGCAAATGGATAAT
701 R D P T P L H R A A K L L I N A Q M D N
2161 GGAGATCTCCCTCAACAGGAAATTACTGGAGTATACTGTAAAAATAGTATGTTACATTAT
721 G D L P Q Q E I T G V Y C K N S M L H Y
2221 GCGGAGTACAGAAATATATTTCTCTTTGGGCACTCGGAGAATATCGGAAACGTGTTTGG
741 A E Y R N I F P L W A L G E Y R K R V W
2281 TTGCCAAAGCACCAGCAGCTCAAAATTTAA
761 L P K H Q Q L K I *

Figure S1. The cDNA sequences and predicted amino acid sequences of four genes: (A)*FPS*; (B)*SS*; (C)*SE*; (D)*DS*. The sequences of shadow area represented the transmembrane regions.

Supplementary Table

Table S1. Ka/Ks analysis of four genes

Gene	Sequence 1	Sequence 2	Ka	Ks	Ka/Ks	Selective pressure
FPS	<i>A. elata</i>	<i>A. ageratoides</i>	0.0713	0.6121	0.116484	purify selection
		<i>B. chinense</i>	0.0189	0.4626	0.040856	purify selection
		<i>C. sinensis</i>	0.0608	0.4340	0.140092	purify selection
		<i>C. asiatica</i>	0.0157	0.3702	0.042410	purify selection
		<i>C. microcarpa</i>	0.0872	0.8200	0.106341	purify selection
		<i>E. ulmoides</i>	0.0633	0.7797	0.081185	purify selection
		<i>P. quinquefolium</i>	0.0062	0.0106	0.584906	purify selection
		<i>S. album</i>	0.0889	0.6938	0.128135	purify selection
		<i>P. ginseng</i>	0.0062	0.0106	0.584906	purify selection
		<i>P. notoginseng</i>	0.0031	0.0432	0.071759	purify selection

	<i>A. ageratoides</i>	<i>B. chinense</i>	0.0713	0.7699	0.092609	purify selection
		<i>C. sinensis</i>	0.0889	0.5501	0.161607	purify selection
		<i>C. asiatica</i>	0.0719	0.8531	0.084281	purify selection
		<i>C. microcarpa</i>	0.0850	1.0151	0.083736	purify selection
		<i>E. ulmoides</i>	0.0561	1.0203	0.054984	purify selection
		<i>P. quinquefolium</i>	0.0712	0.5928	0.120108	purify selection
		<i>S. album</i>	0.0949	0.9130	0.103943	purify selection
		<i>P. ginseng</i>	0.0712	0.5928	0.120108	purify selection
		<i>P. notoginseng</i>	0.0678	0.6395	0.106020	purify selection
	<i>B. chinense</i>	<i>C. sinensis</i>	0.0687	0.8108	0.084731	purify selection
		<i>C. asiatica</i>	0.0126	0.6106	0.020635	purify selection
		<i>C. microcarpa</i>	0.0751	0.9043	0.083048	purify selection
		<i>E. ulmoides</i>	0.0787	0.9641	0.081631	purify selection
		<i>P. quinquefolium</i>	0.0189	0.4461	0.042367	purify selection
		<i>S. album</i>	0.0942	1.0031	0.093909	purify selection
		<i>P. ginseng</i>	0.0189	0.4461	0.042367	purify selection
		<i>P. notoginseng</i>	0.0157	0.4648	0.033778	purify selection
	<i>C. sinensis</i>	<i>C. asiatica</i>	0.0530	0.6578	0.080572	purify selection
		<i>C. microcarpa</i>	0.0840	0.7411	0.113345	purify selection
		<i>E. ulmoides</i>	0.0464	0.6079	0.076328	purify selection
		<i>P. quinquefolium</i>	0.0607	0.4178	0.145285	purify selection
		<i>S. album</i>	0.0840	0.5663	0.148331	purify selection
		<i>P. ginseng</i>	0.0607	0.4178	0.145285	purify selection
		<i>P. notoginseng</i>	0.0574	0.4750	0.120842	purify selection
	<i>C. asiatica</i>	<i>C. microcarpa</i>	0.0769	0.8825	0.087139	purify selection
		<i>E. ulmoides</i>	0.0771	0.8709	0.088529	purify selection
		<i>P. quinquefolium</i>	0.0157	0.3553	0.044188	purify selection
		<i>S. album</i>	0.0960	0.9043	0.106159	purify selection

		<i>P. ginseng</i>	0.0157	0.3553	0.044188	purify selection
		<i>P. notoginseng</i>	0.0125	0.3549	0.035221	purify selection
	<i>C. microcarpa</i>	<i>E. ulmoides</i>	0.0752	1.4312	0.052543	purify selection
		<i>P. quinquefolium</i>	0.0880	0.7879	0.111689	purify selection
		<i>S. album</i>	0.0958	0.6989	0.137073	purify selection
		<i>P. ginseng</i>	0.0880	0.7879	0.111689	purify selection
		<i>P. notoginseng</i>	0.0837	0.7943	0.105376	purify selection
	<i>E. ulmoides</i>	<i>P. quinquefolium</i>	0.0632	0.7564	0.083554	purify selection
		<i>S. album</i>	0.0706	1.0295	0.068577	purify selection
		<i>P. ginseng</i>	0.0632	0.7564	0.083554	purify selection
		<i>P. notoginseng</i>	0.0599	0.8149	0.073506	purify selection
	<i>P. quinquefolium</i>	<i>S. album</i>	0.0897	0.6660	0.134685	purify selection
		<i>P. notoginseng</i>	0.0031	0.0323	0.095975	purify selection
	<i>S. album</i>	<i>P. ginseng</i>	0.0897	0.6660	0.134685	purify selection
		<i>P. notoginseng</i>	0.0853	0.6715	0.127029	purify selection
	<i>P. ginseng</i>	<i>P. notoginseng</i>	0.0031	0.0323	0.095975	purify selection
	SS	<i>S. tuberosum</i>	0.0896	0.8823	0.101553	purify selection
		<i>C. asiatica</i>	0.0387	0.3713	0.104228	purify selection
		<i>B. chinense</i>	0.0472	0.5214	0.090526	purify selection
		<i>A. indica</i>	0.0791	0.8650	0.091445	purify selection
		<i>P. quinquefolium</i>	0.0047	0.0040	1.175000	positive selection
		<i>A. elata</i>	0.0158	0.0434	0.364055	purify selection
		<i>T. cacao</i>	0.0821	0.7503	0.109423	purify selection
		<i>B. platyphylla</i>	0.0741	0.7662	0.096711	purify selection
		<i>C. oleifera</i>	0.0597	0.6221	0.095965	purify selection
		<i>B. falcatum</i>	0.0484	0.5707	0.084808	purify selection
		<i>S. nigrum</i>	0.0890	0.9407	0.094610	purify selection
		<i>G. hirsutum</i>	0.1009	0.9742	0.103572	purify selection

		<i>S. miltiorrhiza</i>	0.0835	0.9296	0.089824	purify selection
		<i>W. somnifera</i>	0.0947	0.9048	0.104664	purify selection
		<i>P. notoginseng</i>	0.0105	0.0288	0.364583	purify selection
	<i>S. tuberosum</i>	<i>C. asiatica</i>	0.0959	0.9989	0.096006	purify selection
		<i>B. chinense</i>	0.1125	1.0495	0.107194	purify selection
		<i>A. indica</i>	0.0939	1.0821	0.086776	purify selection
		<i>P. quinquefolium</i>	0.0844	0.8806	0.095844	purify selection
		<i>A. elata</i>	0.0884	0.8386	0.105414	purify selection
		<i>T. cacao</i>	0.0952	0.9689	0.098256	purify selection
		<i>B. platyphylla</i>	0.0928	0.9858	0.094137	purify selection
		<i>C. oleifera</i>	0.0789	0.9296	0.084875	purify selection
		<i>B. falcatum</i>	0.1166	1.0629	0.109700	purify selection
		<i>S. nigrum</i>	0.0165	0.1114	0.148115	purify selection
		<i>G. hirsutum</i>	0.1155	1.2450	0.092771	purify selection
		<i>S. miltiorrhiza</i>	0.1071	0.9940	0.107746	purify selection
		<i>W. somnifera</i>	0.0254	0.2196	0.115665	purify selection
		<i>P. notoginseng</i>	0.0860	0.8515	0.100998	purify selection
	<i>C. asiatica</i>	<i>B. chinense</i>	0.0590	0.6318	0.093384	purify selection
		<i>A. indica</i>	0.0690	1.0343	0.066712	purify selection
		<i>P. quinquefolium</i>	0.0338	0.3642	0.092806	purify selection
		<i>A. elata</i>	0.0381	0.3794	0.100422	purify selection
		<i>T. cacao</i>	0.0737	0.8637	0.085331	purify selection
		<i>B. platyphylla</i>	0.0741	0.9603	0.077163	purify selection
		<i>C. oleifera</i>	0.0609	0.7118	0.085558	purify selection
		<i>B. falcatum</i>	0.0602	0.6592	0.091323	purify selection
		<i>S. nigrum</i>	0.0973	1.0430	0.093289	purify selection
		<i>G. hirsutum</i>	0.0906	1.0194	0.088876	purify selection
		<i>S. miltiorrhiza</i>	0.0944	0.8994	0.104959	purify selection

		<i>W. somnifera</i>	0.1010	1.0260	0.098441	purify selection
		<i>P. notoginseng</i>	0.0375	0.3640	0.103022	purify selection
	<i>B. chinense</i>	<i>A. indica</i>	0.0926	0.9948	0.093084	purify selection
		<i>P. quinquefolium</i>	0.0423	0.5206	0.081252	purify selection
		<i>A. elata</i>	0.0454	0.5474	0.082938	purify selection
		<i>T. cacao</i>	0.0922	1.1278	0.081752	purify selection
		<i>B. platyphylla</i>	0.0936	1.0992	0.085153	purify selection
		<i>C. oleifera</i>	0.0863	0.7853	0.109894	purify selection
		<i>B. falcatum</i>	0.0035	0.0249	0.140562	purify selection
		<i>S. nigrum</i>	0.1119	1.1057	0.101203	purify selection
		<i>G. hirsutum</i>	0.1063	1.2541	0.084762	purify selection
		<i>S. miltiorrhiza</i>	0.0966	0.9990	0.096697	purify selection
		<i>W. somnifera</i>	0.1140	0.9496	0.120051	purify selection
		<i>P. notoginseng</i>	0.0423	0.5285	0.080038	purify selection
	<i>A. indica</i>	<i>P. quinquefolium</i>	0.0739	0.8634	0.085592	purify selection
		<i>A. elata</i>	0.0798	0.8529	0.093563	purify selection
		<i>T. cacao</i>	0.0759	0.5586	0.135875	purify selection
		<i>B. platyphylla</i>	0.0756	0.6409	0.117959	purify selection
		<i>C. oleifera</i>	0.0719	0.8260	0.087046	purify selection
		<i>B. falcatum</i>	0.0939	1.0073	0.093219	purify selection
		<i>S. nigrum</i>	0.0907	1.0382	0.087363	purify selection
		<i>G. hirsutum</i>	0.0804	0.8846	0.090889	purify selection
		<i>S. miltiorrhiza</i>	0.1051	1.2854	0.081764	purify selection
		<i>W. somnifera</i>	0.0922	1.0642	0.086638	purify selection
		<i>P. notoginseng</i>	0.0752	0.8628	0.087158	purify selection
	<i>P. quinquefolium</i>	<i>A. elata</i>	0.0111	0.0392	0.283163	purify selection
		<i>T. cacao</i>	0.0770	0.7490	0.102804	purify selection
		<i>B. platyphylla</i>	0.0691	0.7649	0.090339	purify selection

		<i>C. oleifera</i>	0.0547	0.6211	0.088070	purify selection
		<i>B. falcatum</i>	0.0435	0.5699	0.076329	purify selection
		<i>S. nigrum</i>	0.0838	0.9389	0.089253	purify selection
		<i>G. hirsutum</i>	0.0963	0.9649	0.099803	purify selection
		<i>S. miltiorrhiza</i>	0.0803	0.9347	0.085910	purify selection
		<i>W. somnifera</i>	0.0895	0.9030	0.099114	purify selection
		<i>P. notoginseng</i>	0.0058	0.0246	0.235772	purify selection
	<i>A. elata</i>	<i>T. cacao</i>	0.0796	0.7565	0.105221	purify selection
		<i>B. platyphylla</i>	0.0742	0.7393	0.100365	purify selection
		<i>C. oleifera</i>	0.0597	0.6004	0.099434	purify selection
		<i>B. falcatum</i>	0.0466	0.5983	0.077887	purify selection
		<i>S. nigrum</i>	0.0882	0.8891	0.099201	purify selection
		<i>G. hirsutum</i>	0.0951	1.0042	0.094702	purify selection
		<i>S. miltiorrhiza</i>	0.0871	0.9002	0.096756	purify selection
		<i>W. somnifera</i>	0.0935	0.8594	0.108797	purify selection
		<i>P. notoginseng</i>	0.0147	0.0477	0.308176	purify selection
	<i>T. cacao</i>	<i>B. platyphylla</i>	0.0667	0.5998	0.111204	purify selection
		<i>C. oleifera</i>	0.0678	0.7780	0.087147	purify selection
		<i>B. falcatum</i>	0.0935	1.2004	0.077891	purify selection
		<i>S. nigrum</i>	0.0985	0.9449	0.104244	purify selection
		<i>G. hirsutum</i>	0.0418	0.3770	0.110875	purify selection
		<i>S. miltiorrhiza</i>	0.1052	0.8511	0.123605	purify selection
		<i>W. somnifera</i>	0.1010	1.0022	0.100778	purify selection
		<i>P. notoginseng</i>	0.0789	0.7877	0.100165	purify selection
	<i>B. platyphylla</i>	<i>C. oleifera</i>	0.0690	0.7474	0.092320	purify selection
		<i>B. falcatum</i>	0.0975	1.1319	0.086138	purify selection
		<i>S. nigrum</i>	0.0935	1.0873	0.085993	purify selection
		<i>G. hirsutum</i>	0.0824	0.8398	0.098119	purify selection

		<i>S. miltiorrhiza</i>	0.1005	1.1374	0.088359	purify selection
		<i>W. somnifera</i>	0.0971	1.0555	0.091994	purify selection
		<i>P. notoginseng</i>	0.0691	0.7873	0.087768	purify selection
	<i>C. oleifera</i>	<i>B. falcatum</i>	0.0903	0.8435	0.107054	purify selection
		<i>S. nigrum</i>	0.0809	0.9771	0.082796	purify selection
		<i>G. hirsutum</i>	0.0836	1.1302	0.073969	purify selection
		<i>S. miltiorrhiza</i>	0.0871	0.8824	0.098708	purify selection
		<i>W. somnifera</i>	0.0904	0.9684	0.093350	purify selection
		<i>P. notoginseng</i>	0.0578	0.6254	0.092421	purify selection
	<i>B. falcatum</i>	<i>S. nigrum</i>	0.1160	1.1568	0.100277	purify selection
		<i>G. hirsutum</i>	0.1076	1.3651	0.078822	purify selection
		<i>S. miltiorrhiza</i>	0.1010	1.0547	0.095762	purify selection
		<i>W. somnifera</i>	0.1181	0.9328	0.126608	purify selection
		<i>P. notoginseng</i>	0.0435	0.5783	0.075220	purify selection
	<i>S. nigrum</i>	<i>G. hirsutum</i>	0.1175	1.0648	0.110349	purify selection
		<i>S. miltiorrhiza</i>	0.1091	0.9690	0.112590	purify selection
		<i>W. somnifera</i>	0.0242	0.2139	0.113137	purify selection
		<i>P. notoginseng</i>	0.0854	0.9074	0.094115	purify selection
	<i>G. hirsutum</i>	<i>S. miltiorrhiza</i>	0.1170	1.1067	0.105720	purify selection
		<i>W. somnifera</i>	0.1184	1.2992	0.091133	purify selection
		<i>P. notoginseng</i>	0.0963	1.0406	0.092543	purify selection
	<i>S. miltiorrhiza</i>	<i>W. somnifera</i>	0.1153	1.0328	0.111638	purify selection
		<i>P. notoginseng</i>	0.0829	0.9482	0.087429	purify selection
	<i>W. somnifera</i>	<i>P. notoginseng</i>	0.0911	0.8728	0.104377	purify selection
SE	<i>P. ginseng</i>	<i>P. notoginseng</i>	0.0048	0.0476	0.100840	purify selection
		<i>P. vietnamensis</i>	0.0048	0.0415	0.115663	purify selection
		<i>E. senticosus</i>	0.0166	0.2872	0.057799	purify selection
		<i>P. quinquefolium</i>	0.0405	0.5077	0.079772	purify selection

		<i>A. elata</i>	0.0136	0.0885	0.153672	purify selection
		<i>T. cacao</i>	0.1007	1.3729	0.073348	purify selection
		<i>C. clementina</i>	0.1096	1.4950	0.073311	purify selection
		<i>P. trichocarpa</i>	0.0987	1.7234	0.057271	purify selection
		<i>P. persica</i>	0.1014	1.6985	0.059700	purify selection
		<i>Z. mays</i>	0.1036	2.5305	0.040941	purify selection
	<i>P. notoginseng</i>	<i>P. vietnamensis</i>	0.0058	0.0416	0.139423	purify selection
		<i>E. senticosus</i>	0.0146	0.2709	0.053894	purify selection
		<i>P. quinquefolium</i>	0.0390	0.4833	0.080695	purify selection
		<i>A. elata</i>	0.0126	0.0789	0.159696	purify selection
		<i>T. cacao</i>	0.0995	1.4325	0.069459	purify selection
		<i>C. clementina</i>	0.1096	1.4584	0.075151	purify selection
		<i>P. trichocarpa</i>	0.0982	1.8056	0.054386	purify selection
		<i>P. persica</i>	0.1014	1.8259	0.055534	purify selection
		<i>Z. mays</i>	0.1042	2.4322	0.042842	purify selection
	<i>P. vietnamensis</i>	<i>E. senticosus</i>	0.0175	0.2876	0.060848	purify selection
		<i>P. quinquefolium</i>	0.0405	0.5143	0.078748	purify selection
		<i>A. elata</i>	0.0146	0.0918	0.159041	purify selection
		<i>T. cacao</i>	0.1017	1.4335	0.070945	purify selection
		<i>C. clementina</i>	0.1118	1.5222	0.073446	purify selection
		<i>P. trichocarpa</i>	0.1009	1.7916	0.056318	purify selection
		<i>P. persica</i>	0.1047	1.7646	0.059334	purify selection
		<i>Z. mays</i>	0.1058	2.2720	0.046567	purify selection
	<i>E. senticosus</i>	<i>P. quinquefolium</i>	0.0325	0.4621	0.070331	purify selection
		<i>A. elata</i>	0.0136	0.2184	0.062271	purify selection
		<i>T. cacao</i>	0.0919	1.4789	0.062141	purify selection
		<i>C. clementina</i>	0.1047	1.3429	0.077966	purify selection
		<i>P. trichocarpa</i>	0.0966	1.6281	0.059333	purify selection

		<i>P. persica</i>	0.0982	1.7108	0.057400	purify selection
		<i>Z. mays</i>	0.1021	2.3087	0.044224	purify selection
	<i>P. quinquefolium</i>	<i>A. elata</i>	0.0390	0.4495	0.086763	purify selection
		<i>T. cacao</i>	0.0999	1.2994	0.076882	purify selection
		<i>C. clementina</i>	0.1116	1.3829	0.080700	purify selection
		<i>P. trichocarpa</i>	0.1037	1.3576	0.076385	purify selection
		<i>P. persica</i>	0.1131	1.5832	0.071438	purify selection
		<i>Z. mays</i>	0.1036	2.3800	0.043529	purify selection
	<i>A. elata</i>	<i>T. cacao</i>	0.0980	1.3586	0.072133	purify selection
		<i>C. clementina</i>	0.1064	1.3379	0.079528	purify selection
		<i>P. trichocarpa</i>	0.0971	1.5967	0.060813	purify selection
		<i>P. persica</i>	0.1020	1.7609	0.057925	purify selection
		<i>Z. mays</i>	0.1020	2.1059	0.048435	purify selection
	<i>T. cacao</i>	<i>C. clementina</i>	0.0469	0.6161	0.076124	purify selection
		<i>P. trichocarpa</i>	0.0770	1.1582	0.066482	purify selection
		<i>P. persica</i>	0.0590	0.8074	0.073074	purify selection
		<i>Z. mays</i>	0.0834	2.1292	0.039170	purify selection
	<i>C. clementina</i>	<i>P. trichocarpa</i>	0.0845	1.2057	0.070084	purify selection
		<i>P. persica</i>	0.0634	0.8788	0.072144	purify selection
		<i>Z. mays</i>	0.0899	3.6556	0.024592	purify selection
	<i>P. trichocarpa</i>	<i>P. persica</i>	0.0871	1.0942	0.079602	purify selection
		<i>Z. mays</i>	0.0882	1.9038	0.046328	purify selection
	<i>P. persica</i>	<i>Z. mays</i>	0.0885	4.7311	0.018706	purify selection
DS	<i>P. notoginseng</i>	<i>P. ginseng</i>	0.0021	0.0383	0.054830	purify selection
		<i>P. quinquefolium</i>	0.0011	0.0266	0.041353	purify selection
		<i>P. vietnamensis</i>	0.0106	0.0500	0.212000	purify selection
		<i>O. europaea</i>	0.1655	1.1104	0.149045	purify selection
		<i>E. senticosus</i>	0.1386	0.6584	0.210510	purify selection

	<i>P. ginseng</i>	<i>P. quinquefolium</i>	0.0011	0.0189	0.058201	purify selection
		<i>P. vietnamensis</i>	0.0085	0.0499	0.170341	purify selection
		<i>O. europaea</i>	0.1627	1.1776	0.138162	purify selection
		<i>E. senticosus</i>	0.1376	0.6643	0.207135	purify selection
	<i>P. quinquefolium</i>	<i>P. vietnamensis</i>	0.0096	0.0620	0.154839	purify selection
		<i>O. europaea</i>	0.1640	1.1811	0.138854	purify selection
		<i>E. senticosus</i>	0.1388	0.6934	0.200173	purify selection
	<i>P. vietnamensis</i>	<i>O. europaea</i>	0.1585	1.1060	0.143309	purify selection
		<i>E. senticosus</i>	0.1375	0.6803	0.202117	purify selection
	<i>O. europaea</i>	<i>E. senticosus</i>	0.1287	1.2724	0.101147	purify selection