

Citrus_clementina	MSDLKSRFIEVYGVLKCELLNDPAFEEDHDSRQWVERMLD	40
Coffea_arabica	MSDLKAKFLEVYSVLKSELLNDPAFEETDDSRQWVERMLD	40
Gardenia_jasminoides	MSDLRAKFLEVYSVLKSELLNDPAFEETDDSRQWVERMLD	40
Panax_japonicus	MSDLKTRFLEVYSVLKSELLNDPAFEETDDSRQWVERMLD	40
Zanthoxylum_bungeanum	MSDLKSRFIEVYGVLKCELLNDPAFEEDHVSQWVERMLD	40
Consensus	msdl f evy lk ellndpafef srqw rml d	
Citrus_clementina	YNVPGGKLNRLSVVDSYKLLKEGKELTDDEFFLSSALGW	80
Coffea_arabica	YNVPGGKLNRLSVVDSYKLLKEGKELTSDETFLACALGW	80
Gardenia_jasminoides	YNVPGGKLNRLSVVDSYKLLKEGKELTSDETFLACALGW	80
Panax_japonicus	YNVPGGKLNRLSVVDSYKLLKEGKELTSDDEFFLSSALGW	80
Zanthoxylum_bungeanum	YNVPGGKLNRLSVVDSYKLLKEGKELTDDEFFLSSALGW	80
Consensus	ynvpggklnrglsv dsy llkeg el de fl algw	
Citrus_clementina	CIEWLQAYFLVDDIMDGSHTRRGQPCWFRPKVGMIAAN	120
Coffea_arabica	CIEWLQAYFLVDDIMDGSHTRRGQPCWFRPKVGMIAAN	120
Gardenia_jasminoides	CIEWLQAYFLVDDIMDGSHTRRGQPCWFRPKVGMIAAN	120
Panax_japonicus	CIEWLQAYFLVDDIMDSSHTRRGQPCWFRPKVGMIAVN	120
Zanthoxylum_bungeanum	CIEWLQAYFLVDDIMDGSHTRRGQPCWFRPKVGMIAAN	120
Consensus	c ewlqayflv ddimd shtrrgqpcwfr pkvgmia n	
Citrus_clementina	DGVILRNHISRILKNHFRDKPYYVDLLDLFNEVEFQTASG	160
Coffea_arabica	DGIILRNHISRILKNHFRGKPYVVDLLDLFNEVEFQTASG	160
Gardenia_jasminoides	DGIILRNHISRILKNHFRDKPYYVDLLDLFNEVEFQTASG	160
Panax_japonicus	DGIILRNHISRILKNHFRGKPYVVDLLDLFNEVEFQTASG	160
Zanthoxylum_bungeanum	DGVILRNHISRILKNHFRGKPYVVDLLDLFNEVEFQTASG	160
Consensus	dg lrnhi ril k hfr kpyyvdlldlfnevefqtasg	
Citrus_clementina	QMIDLITTIEGEKDSLKYSLEHRRIVQYKTAYYSFYLPV	200
Coffea_arabica	QMIDLITTLVGEKDSLKYSLEHRRIVQYKTAYYSFYLPV	200
Gardenia_jasminoides	QMIDLITTFVGEKDSLKYSLEHRRIVQYKTAYYSFYLPV	200
Panax_japonicus	QMIDLITTLVGEKDSLKYSLEHRRIVQYKTAYYSFYLPV	200
Zanthoxylum_bungeanum	QMIDLITTIEGEKDSLKYSLEHRRIVQYKTAYYSFYLPV	200
Consensus	qmidlitt gekdlskyslp hrrivqyktayysfylv	
Citrus_clementina	ACALLMAGENLDKHEVEVRDILVCMGYFQVQDDLDLDCFGS	240
Coffea_arabica	ACALLMSGENLDNHIDVKEILIBMGIYFQVQDDLDLDCYGD	240
Gardenia_jasminoides	ACALLMSGENLDNHNDVKEILIBMGIYFQVQDDLDLDCYGD	240
Panax_japonicus	ACALLMSGEDLEKHTNVKDIILIBMGIYFQVQDDLDLDCFGA	240
Zanthoxylum_bungeanum	ACALLMAGENLDKHEVEVRDILVCMGYFQVQDDLDLDCFGS	240
Consensus	acallm ge l h vk il mg yfqvqdd ldc g	
Citrus_clementina	PEVIGKVGTDIEDFKCSWLVVKALELONEEQKRLHENYG	280
Coffea_arabica	PEVIGKIGTDIEDFKCSWLVVKALEVONEEQKRLHENYG	280
Gardenia_jasminoides	PEVIGKIGTDIEDFKCSWLVVKALELONEEQKRLHENYG	280
Panax_japonicus	PEVIGKIGTDIEDFKCSWLVVKALELSNEEQKRLHENYG	280
Zanthoxylum_bungeanum	PEVIGKVGTDIEDFKCSWLVVKALELONEEQKRLHENYG	280
Consensus	pevigk gtdied kcsw vvkale neeq k enyg	
Citrus_clementina	KVDFACVAKVKELYKTLDLEGVFEYERESYKLIKISIEA	320
Coffea_arabica	KQDFACVAKVKELYEALKIQDVFEYERKSYKLIKNGIEA	320
Gardenia_jasminoides	KQDFACVAKVKELYKVLKIQDVFEFEKKSSEYKLIKNSIEA	320
Panax_japonicus	KDDFTSVAKVKELYNTLKLQDVFEYERESYKLIKIFIEA	320
Zanthoxylum_bungeanum	KAVEACVAKVKELYKTLDLEGVFEYERESYKLIKIESIEA	320
Consensus	k p vakvkely l f e e sy kl iea	
Citrus_clementina	HETKEVQAVLKSFLAKIYKRQ	341
Coffea_arabica	HESKAVQAVLKSFLSKIYKRQ	341
Gardenia_jasminoides	HESKAVQAVLKSFLSKIYKRQ	341
Panax_japonicus	HESQAVQAVLKSFLGIYKRQ	341
Zanthoxylum_bungeanum	HESKAVQAVLKSFLAKIYKRQ	341
Consensus	hp vgavlksfl kiykrq	

Figure S3. Deduced amino acid sequences of the conserved regions of ZbFPS. The conserved domains are boxed. Homology level was highlighted by shading in color: black for 100%, pink for $\geq 75\%$ and blue for $\geq 50\%$ identity.