

Table 3 Number of Unigenes related to fatty acid biosynthesis in seeds of *Paeonia lactiflora*

'Hangshao'

Entry	Symbol	Enzymes	Unigenes number
De novo synthesis of fatty acid			
K11262	BC	acetyl-CoA carboxylase / biotin carboxylase 1	11
K10962	$\alpha$ -CT	acetyl-CoA carboxylase carboxyl transferase subunit alpha	8
K01963	$\beta$ -CT	acetyl-CoA carboxylase carboxyl transferase subunit beta	6
K02160	BCCP	acetyl-CoA carboxylase biotin carboxyl carrier protein	17
K00645	FabD	malonyl-CoA-acyl carrier protein transacylase	1
K00648	FabH	3-oxoacyl-[acyl-carrier-protein] synthase III	1
K00059	FabG	3-oxoacyl-[acyl-carrier protein] reductase	26
K02372	FabZ	3-hydroxyacyl-[acyl-carrier-protein] dehydratase	5
K00208	FabI	enoyl-[acyl-carrier protein] reductase I	5
K09458	FabF	3-oxoacyl-[acyl-carrier-protein] synthase II	18
K10782	FATA	fatty acyl-ACP thioesterase A	1
K10781	FATB	fatty acyl-ACP thioesterase B	4
Fatty acid elongation			
K10897	fadD	long-chain acyl-CoA synthetase	30
K15397	KCS	3-ketoacyl-CoA synthase	23
K10251	KCR	very-long-chain 3-oxoacyl-CoA reductase	7
K10703	HCD	very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase	8
K10258	ECR	very-long-chain enoyl-CoA reductase	6
Biosynthesis of unsaturated fatty acid			
K03921	SAD	stearoyl-ACP desaturase (Delta-9 desaturase)	37
K10256	FAD2	omega-6 fatty acid desaturase (Delta-12 desaturase)	16
K10256	FAD6	omega-6 fatty acid desaturase (Delta-12 desaturase)	2
K10257	FAD3	omega-3 fatty acid desaturase (Delta-15 desaturase)	5
K10257	FAD7	omega-3 fatty acid desaturase (Delta-15 desaturase)	8
K10257	FAD8	omega-3 fatty acid desaturase (Delta-15 desaturase)	2