Supplemental Table S1: Genes correlated with the lignin content of loquat fruit during postharvest treatments (0 ºC, LTC, HT) from C-CorA, showing their correlation coefficients and annotations.

ID	coe	annotation	ID	coe	annotation
UN68285	0.953463	Guanine nucleotide-binding protein alpha-2 subunit	UN06411	0.722468	Alcohol dehydrogenase
UN25438	0.910427	Ras-related protein Rab-1A	UN06803	0.722468	Myb domain protein 3R-5
UN35488	0.910427	Translation factor sui1, putative	UN07047	0.722468	OTU-like cysteine protease family protein expressed
UN02169	0.90396	E3 ubiquitin-protein ligase BRE1-like 2	UN10159	0.722468	Heme binding protein
UN16407	0.90396	Plant Tudor-like RNA-binding protein LENGTH=326	UN11404	0.722468	Eukaryotic translation initiation factor 3 subunit J
UN11763	0.90303	Phenylalanine--tRNA ligase alpha subunit	UN13858	0.722468	Kinase, putative
UN14676	0.90303	Membrane-anchored ubiquitin-fold protein	UN19042	0.722468	U-box domain-containing protein
UN30230	0.90303	RNA binding protein, putative	UN20273	0.722468	RING/U-box superfamily protein LENGTH=520
UN00328	0.870388	MYB transcription factor	UN23440	0.722468	Glutamine-dependent NAD(+) synthetase, putative
UN00386	0.870388	CBL-interacting protein kinase 08	UN29995	0.722468	Auxin-responsive GH3 family protein LENGTH=609
UN35486	0.870388	Protein translation factor SUI1	UN36277	0.722468	Vesicle-associated membrane protein, putative
UN38697	0.870388	E3 ubiquitin-protein ligase BAH1	UN36884	0.722468	Translocon-associated protein, alpha subunit, putative
UN26543	0.858116	NAD(P)H dehydrogenase (quinone)	UN38456	0.722468	Kinase family protein
UN26767	0.858116	Cinnamyl alcohol dehydrogenase	UN41769	0.722468	Chaperone protein dnaJ, putative
UN32867	0.858116	Aminoacylase family protein	UN44128	0.722468	Kelch-like protein 3
UN35230	0.858116	Mitochondrial import receptor subunit TOM20, putative	UN46940	0.722468	RNA-binding protein
UN35485	0.858116	Protein translation factor SUI1	UN48946	0.722468	UDP-glycosyltransferase 1
UN36902	0.858116	Protein disulfide isomerase, putative	UN49421	0.722468	V-type proton ATPase subunit G
UN12743	0.856349	Protein phosphatase 2c, putative	UN68320	0.722468	Dihydroflavonol-4-reductase
UN37063	0.856349	ORM1-like protein 2	UN68684	0.722468	Cx9C motif-containing protein 4, mitochondrial
UN03042	0.852892	Actin	UN00654	0.712525	Hydroxyproline-rich glycoprotein
UN30727	0.852892	Proteasome-associated ECM29-like protein	UN02470	0.712525	Kinase family protein

UN26788	0.832935	3-isopropylmalate dehydratase, small subunit	UN03638	0.712525	NAC domain containing protein 80 LENGTH=329
UN32474	0.832935	ADP-ribosylation factor	UN07571	0.712525	DNA-3-methyladenine glycosylase, putative
UN36670	0.832935	Aluminum-induced protein with YGL and LRDR motifs	UN10912	0.712525	Phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN, putative
UN03841	0.816447	ATP-citrate synthase	UN11814	0.712525	Caleosin-related family protein LENGTH=195
UN06951	0.816447	Regulator of Vps4 activity in the MVB pathway protein LENGTH=937	UN11959	0.712525	RNA-binding protein
UN11662	0.816447	Zinc finger family protein	UN13139	0.712525	Phosphatidylinositol N-acetyglucosaminlytransferase subunit P-related LENGTH=720
UN12680	0.816447	Histone H2B	UN13508	0.712525	Endoplasmic reticulum metallopeptidase 1
UN31909	0.816447	Nbs-lrr resistance protein	UN14773	0.712525	Mediator of RNA polymerase II transcription subunit 19a
UN33526	0.816447	Eukaryotic translation initiation factor 3 subunit K	UN21823	0.712525	Gamma-irradiation and mitomycin c induced 1
UN34330	0.816447	BON association protein 2 LENGTH=207	UN23925	0.712525	Uncharacterized conserved protein (DUF2215) LENGTH=498
UN42370	0.816447	Receptor-like kinase	UN26874	0.712525	Homocysteine S-methyltransferase
UN46142	0.816447	Exocyst complex component sec6, putative	UN34656	0.712525	CCR4-NOT transcription complex subunit 7
UN48054	0.816447	Ubiquitin carboxyl-terminal hydrolase family protein LENGTH=415	UN35406	0.712525	RING/U-box superfamily protein LENGTH=396
UN68312	0.816447	Leucine-rich repeat (LRR) family protein LENGTH=699	UN38910	0.712525	Phosphoglycerate mutase, putative
UN12756	0.808736	RPM1 interacting protein 4 transcript 2b	UN39648	0.712525	WD-repeat protein, putative
UN02097	0.806061	O-fucosyltransferase family protein LENGTH=508	UN41717	0.712525	Serine/threonine protein phosphatase 2A 59 kDa regulatory subunit B' gamma isoform
UN02306	0.806061	RING/U-box superfamily protein LENGTH=231	UN45832	0.712525	C2 domain-containing protein-like
UN05727	0.806061	LEM3 (Ligand-effect modulator 3) family protein	UN48044	0.712525	E3 SUMO-protein ligase SIZ1
UN35213	0.806061	Mitochondrial outer membrane protein porin	UN48880	0.712525	Pyruvate decarboxylase
UN36475	0.806061	Protein kinase	UN49115	0.712525	Protein kinase superfamily protein LENGTH=670
UN41845	0.806061	Enoyl-CoA hydratase/isomerase family protein	UN49435	0.712525	Quinone oxidoreductase, putative
UN44564	0.806061	F-box family protein	UN50180	0.712525	Myosin heavy chain-related protein

UN49012	0.806061	Protein disulfide isomerase-like protein	UN50732	0.712525	RING/U-box superfamily protein LENGTH=597
UN00213	0.802817	Core-2/I-branching beta-1,6-N-acetylglucosaminyltransferase family protein	UN00628	0.709091	Histidine-rich glycoprotein
UN02982	0.802817	Lipin family protein	UN02552	0.709091	TATA-box binding family protein
UN04457	0.802817	Kinase family protein	UN04612	0.709091	Cullin
UN05292	0.802817	Pantothenate kinase, putative	UN06999	0.709091	Kinesin-like protein
UN18462	0.802817	Arginine/serine-rich splicing factor, putative	UN11058	0.709091	GDSL esterase/lipase
UN26963	0.802817	CBL-interacting protein kinase 12	UN11359	0.709091	BSD domain-containing family protein
UN40538	0.802817	Mitogen-activated protein kinase	UN11690	0.709091	Zinc finger protein, putative
UN49821	0.802817	nudix hydrolase homolog 3 LENGTH=772	UN14818	0.709091	Calcium-transporting ATPase 1 family protein
UN02019	0.797724	Elongation factor 1-gamma	UN15318	0.709091	Nuclear transcription factor Y subunit C8
UN02478	0.797724	Phosphatidylinositol-phosphatidylcholine transfer protein SEC14 Ssh1	UN15606	0.709091	Triosephosphate isomerase
UN02554	0.797724	TATA-box binding family protein	UN19991	0.709091	Major facilitator superfamily protein
UN12142	0.797724	UDP-glucuronic acid decarboxylase 3	UN23015	0.709091	Zinc finger CCCH domain-containing protein
UN13811	0.797724	Kinase interacting (KIP1-like) protein	UN30562	0.709091	Magnesium transporter CorA-like family protein
UN16976	0.797724	S-acyltransferase	UN31753	0.709091	Protein farnesyltransferase/geranylgeranyltransferase type-1 subunit alpha
UN18759	0.797724	S-adenosyl-L-methionine-dependent methyltransferases superfamily protein LENGTH=608	UN33463	0.709091	Pectinesterase
UN23458	0.797724	Ozone-responsive stress related protein	UN34816	0.709091	Proline-rich extensin-like family protein LENGTH=443
UN29059	0.797724	Threonine synthase, putative	UN35782	0.709091	Ribosomal RNA-processing protein-like protein
UN29720	0.797724	Protein transport protein SEC61 gamma subunit	UN36303	0.709091	Hypersensitive induced response protein 4
UN39382	0.797724	Protein kinase 1	UN37474	0.709091	Calcium-binding EF hand family protein
UN39639	0.797724	ATPase ASNA1 homolog	UN38263	0.709091	Alcohol dehydrogenase
UN40308	0.797724	Dof zinc finger protein	UN40059	0.709091	Bifunctional protein HldE
UN47940	0.797724	Zinc finger family protein	UN40303	0.709091	Protein kinase, putative
UN49723	0.797724	Peptidyl-prolyl cis-trans isomerase, cyclophilin type	UN45161	0.709091	Protein FAM116A
UN01793	0.777547	Protein disulfide isomerase family	UN46910	0.709091	Developmentally regulated GTP-binding protein, putative

UN07506	0.777547	Plant protein of unknown function (DUF639) LENGTH=824	UN47588	0.709091	Dentin sialophosphoprotein
UN09548	0.777547	Peroxisomal multifunctional enzyme type 2	UN49182	0.709091	Late embryogenesis abundant (LEA) hydroxyproline-rich glycoprotein family LENGTH=243
UN17940	0.777547	Hydroxyproline-rich glycoprotein	UN49374	0.709091	RNA-binding CRS1 / YhbY (CRM) domain protein LENGTH=296
UN33423	0.777547	KINASE 2B family protein	UN49658	0.709091	Leucine-rich repeat (LRR) family protein LENGTH=727
UN34681	0.777547	Nbs-lrr resistance protein	UN57505	0.709091	Serine/threonine-protein kinase
UN35332	0.777547	BHLH transcription factor	UN66878	0.709091	Methyl-CpG-binding domain protein 4
UN40756	0.777547	Phosphoglycerate kinase	UN67942	0.709091	Plectin-related family protein
UN41017	0.777547	Ethylene responsive transcription factor 2a	UN68301	0.709091	Alcohol dehydrogenase, putative
UN42781	0.777547	TPX2 (targeting protein for Xklp2) protein family LENGTH=432	UN01311	0.706556	Subunit 6b of cytochrome c oxidase
UN44239	0.777547	2,3-bisphosphoglycerate-independent phosphoglycerate mutase	UN05901	0.706556	Glutaredoxin family protein
UN45136	0.777547	Transmembrane 9 superfamily protein member	UN06509	0.706556	aminopeptidase M1 LENGTH=879
UN48890	0.777547	NAC domain protein	UN09387	0.706556	Arginine/serine-rich splicing factor 31
UN49780	0.777547	Nuclear pore complex protein Nup85	UN12580	0.706556	Mitochondrial carrier protein
UN50331	0.777547	CPD photolyase	UN16943	0.706556	Exosome complex exonuclease RRP4
UN01769	0.764471	RAN BINDING protein 1	UN22324	0.706556	Core-2/I-branching beta-1,6-N-acetylglucosaminyltransferase family protein
UN11465	0.764471	UDP-glycosyltransferase 1	UN26365	0.706556	Synaptotagmin-7
UN16917	0.764471	Ribosomal protein S19 family protein LENGTH=152	UN26503	0.706556	Target SNARE coiled-coil domain protein LENGTH=137
UN29716	0.764471	Ubiquitin (Ribosomal protein L40), putative	UN31373	0.706556	Ubiquitin carboxyl-terminal hydrolase
UN34462	0.764471	Proteasome subunit alpha type	UN31480	0.706556	Kinase family protein
UN36329	0.764471	Single-stranded nucleic acid binding R3H protein LENGTH=353	UN31582	0.706556	Glucose-6-phosphate/phosphate-translocator family protein
UN39827	0.764471	RAN BINDING protein 1	UN33347	0.706556	GPI-anchored protein LORELEI
UN39829	0.764471	Nucleosome assembly family protein	UN33437	0.706556	Ethylene responsive transcription factor 1a
UN42794	0.764471	Outward rectifying potassium channel	UN33739	0.706556	Signal peptidase subunit-25
UN46341	0.764471	Dynamin-like family protein	UN34075	0.706556	F-box/RNI-like superfamily protein LENGTH=491
UN48466	0.764471	Phosphoenolpyruvate carboxylase, putative	UN35431	0.706556	Protein kinase 2

UN68341	0.764471	5'-methylthioadenosine/s-adenosylhomocysteine nucleosidase 1-like protein	UN36559	0.706556	Glutathione-S-transferase
UN02037	0.76277	Myb family transcription factor family protein	UN36885	0.706556	Microtubule-associated protein RP/EB family member
UN12121	0.76277	Inositol polyphosphate 6-/3-/5-kinase	UN37062	0.706556	NADH-quinone oxidoreductase subunit I
UN12302	0.76277	Calcium-dependent lipid-binding domain-containing protein	UN37678	0.706556	Nucleotide-sugar transporter family protein LENGTH=350
UN16158	0.76277	Fruit protein PKIWI502, putative	UN38205	0.706556	RING finger protein 165
UN22005	0.76277	Pentatricopeptide repeat-containing protein	UN40427	0.706556	Ribosome biogenesis regulatory protein, putative
UN22245	0.76277	hydroxyproline-rich glycoprotein family protein LENGTH=219	UN41918	0.706556	Plant protein of unknown function (DUF641) LENGTH=425
UN31699	0.76277	Jasmonate-zim-domain protein 1	UN42584	0.706556	Protein kinase
UN31768	0.76277	Myb-like transcription factor	UN42732	0.706556	V-type proton ATPase subunit C
UN33032	0.76277	Galactoside 2-alpha-L-fucosyltransferase, putative	UN42806	0.706556	Polyketide cyclase/dehydrase and lipid transport superfamily protein
UN67992	0.76277	Bifunctional inhibitor/lipid-transfer protein/seed storage 2S albumin superfamily protein LENGTH=530	UN42883	0.706556	26S protease regulatory subunit 6a, putative
UN05807	0.760886	RNA-binding protein, putative	UN44211	0.706556	E3 ubiquitin-protein ligase listerin
UN08806	0.760886	Alcohol dehydrogenase, putative	UN45964	0.706556	WD-repeat protein-like protein
UN14634	0.760886	Charged multivesicular body protein 3	UN47743	0.706556	ELF4-like protein
UN35627	0.760886	Actin-related protein 2/3 complex subunit 4	UN48938	0.706556	UDP-glycosyltransferase 1
UN43187	0.760886	Calmodulin-binding protein-like protein	UN49017	0.706556	Auxin efflux carrier family protein
UN43201	0.760886	Kinase family protein	UN50089	0.706556	Leucine-rich repeat (LRR) family protein LENGTH=493
UN43238	0.760886	Casein kinase family protein	UN67955	0.706556	tRNA-specific 2-thiouridylase mnmA
UN44019	0.760886	Autophagy-related protein	UN68191	0.706556	Gibberellin 3-beta hydroxylase
UN48739	0.760886	Ubiquitin-protein ligase	UN68358	0.706556	Cysteine proteinase
UN48926	0.760886	RING/U-box superfamily protein LENGTH=320	UN00238	0.702902	Serine/threonine-protein phosphatase
UN50545	0.760886	phosphoinositide binding LENGTH=1171	UN02703	0.702902	Major facilitator superfamily protein LENGTH=493
UN56939	0.760886	Dihydroflavonol-4-reductase	UN04649	0.702902	Erythronate-4-phosphate dehydrogenase family protein LENGTH=315
UN01555	0.754006	GF14 protein	UN06947	0.702902	Protein VAC14-like protein
UN08032	0.754006	Lipase/lipooxygenase, PLAT/LH2 family protein LENGTH=390	UN09903	0.702902	Nuclear migration protein nudC
UN09871	0.754006	Kinase family protein	UN10141	0.702902	Isocitrate dehydrogenase [NADP]

UN10003	0.754006	Mitogen-activated protein kinase kinase 6	UN14582	0.702902	Erythronate-4-phosphate dehydrogenase family protein LENGTH=315
UN11133	0.754006	Calnexin 1	UN15230	0.702902	RPM1-interacting protein 4 (RIN4) family protein LENGTH=73
UN15156	0.754006	Abscisic acid receptor PYL8	UN15600	0.702902	Ribosomal protein
UN17927	0.754006	Transposon Ty1-H Gag-Pol polyprotein	UN15801	0.702902	Protein kinase family protein
UN23662	0.754006	WRKY DNA-binding protein 69	UN15836	0.702902	Formin Homology 14 LENGTH=1230
UN29269	0.754006	28 kDa heat-and acid-stable phosphoprotein, putative	UN25223	0.702902	Splicing factor u2af large subunit, putative
UN31030	0.754006	Calcium-transporting ATPase 8 family protein	UN27517	0.702902	Quinone-oxidoreductase QR1
UN32225	0.754006	DnaJ homolog subfamily C member	UN30413	0.702902	SWIb domain-containing protein
UN34483	0.754006	Auxin response factor	UN32840	0.702902	Ubiquinone/menaquinone biosynthesis methyltransferase ubiE
UN34960	0.754006	DCD (Development and Cell Death) domain protein	UN33449	0.702902	RNA polymerase ii transcriptional coactivator, putative
UN37658	0.754006	Regulator of Vps4 activity in the MVB pathway protein LENGTH=323	UN33632	0.702902	Protein phosphatase 2c, putative
UN39495	0.754006	Serine carboxypeptidase-like protein	UN33679	0.702902	Cytochrome b-c1 complex subunit 6
UN47038	0.754006	Kinesin light chain, putative	UN38155	0.702902	Zinc finger ccch domain-containing protein 11
UN02047	0.752549	SAM domain family protein	UN40296	0.702902	Dof zinc finger protein
UN02121	0.752549	Sterol 3-beta-glucosyltransferase	UN40757	0.702902	Phosphoglycerate kinase
UN10110	0.752549	WRKY transcription factor 24	UN41757	0.702902	26S protease regulatory subunit, putative
UN10623	0.752549	Zinc finger family protein	UN42993	0.702902	ADP/ATP carrier protein
UN32578	0.752549	Mitotic checkpoint protein bub3, putative	UN44142	0.702902	Histone-lysine n-methyltransferase, suvh, putative
UN34265	0.752549	Plant protein of unknown function (DUF827) LENGTH=649	UN46224	0.702902	Sister chromatid cohesion protein PDS5-like protein
UN40488	0.752549	RING/U-box superfamily protein	UN48823	0.702902	Ethylene responsive transcription factor 2a
UN42527	0.752549	Protein FAM63A	UN48881	0.702902	Leucine-rich repeat extensin-like protein 3
UN46518	0.752549	Leucine-rich repeat-containing protein	UN49094	0.702902	Autophagy-related protein
UN01460	0.741024	RNA polymerase II accessory factor	UN49249	0.702902	ADP/ATP carrier 3 LENGTH=379
UN05154	0.741024	Telomere binding protein	UN59122	0.702902	Ribosomal protein S12-like protein
UN05155	0.741024	Telomere binding protein	UN08000	0.701796	D-tagatose-1,6-bisphosphate aldolase subunit gatY
UN05246	0.741024	Dentin sialophosphoprotein	UN08796	0.701796	Alkaline phytoceramidase (APHC)
UN06276	0.741024	tRNA dimethylallyltransferase	UN10970	0.701796	WRKY transcription factor, putative
UN06537	0.741024	WD repeat and FYVE domain-containing protein	UN12169	0.701796	Histone H2B

UN12103	0.741024	Proteasome subunit alpha type	UN18898	0.701796	Vacuolar protein sorting 11
UN13688	0.741024	Acyl carrier protein	UN28589	0.701796	Transcriptional corepressor LEUNIG
UN22684	0.741024	formin homology 1 LENGTH=1051	UN30892	0.701796	2-oxoglutarate (2OG) and Fe(II)-dependent oxygenase superfamily protein
UN23387	0.741024	Heat stress transcription factor C-2b	UN31037	0.701796	Leucine-rich repeat (LRR) family protein LENGTH=956
UN23539	0.741024	Ubiquitin-protein ligase, putative	UN33392	0.701796	GDSL esterase/lipase
UN26644	0.741024	Basic-leucine zipper transcription factor A	UN34946	0.701796	ADP-ribosylation factor GTPase-activating protein
UN33792	0.741024	copper ion binding LENGTH=170	UN36521	0.701796	Ubiquitin conjugating enzyme
UN37054	0.741024	Ubiquitin and WLM domain-containing protein	UN38451	0.701796	Brix domain-containing protein
UN37488	0.741024	Procyclic form-specific polypeptide B-alpha	UN39464	0.701796	Basic leucine zipper and W2 domain-containing protein
UN38244	0.741024	Heat shock protein HtpG	UN43534	0.701796	Uncharacterized conserved protein (DUF2215) LENGTH=476
UN40020	0.741024	Pectinacetylesterase family protein	UN50072	0.701796	Cell division protein ZipA homolog
UN49507	0.741024	Haloacid dehalogenase-like hydrolase (HAD) superfamily protein	UN59063	0.701796	Myosin heavy chain-related protein
UN02754	0.732933	Plant protein of unknown function (DUF641) LENGTH=425	UN00528	0.701675	Cycloeucalenol cycloisomerase
UN09576	0.732933	Ozone-responsive stress related protein	UN00997	0.701675	Malate dehydrogenase
UN09615	0.732933	Asparagine--tRNA ligase	UN01258	0.701675	Negatively light-regulated protein
UN16357	0.732933	Phospholipase D p1 family protein	UN04417	0.701675	Protein transport protein Sec23
UN29771	0.732933	V-type proton ATPase subunit G	UN06429	0.701675	Protein trichome birefringence-like 16
UN30528	0.732933	Mitochondrial ATP synthase 6 kDa subunit	UN09204	0.701675	DNAJ heat shock N-terminal domain-containing family protein
UN30754	0.732933	leucine-rich repeat/extensin 2 LENGTH=826	UN11266	0.701675	Double stranded RNA binding protein 1-2
UN31772	0.732933	Metallothionein-like protein	UN18182	0.701675	Coronatine-insensitive 1
UN32106	0.732933	Ribosomal protein 1	UN21321	0.701675	Chaperone protein dnaJ, putative
UN35659	0.732933	Heparanase-2, putative	UN26782	0.701675	Sucrose synthase
UN36868	0.732933	Xyloglucan galactosyltransferase KATAMARI1	UN31873	0.701675	Aminotransferase-like, plant mobile domain family protein LENGTH=509
UN36959	0.732933	Pheromone-processing carboxypeptidase KEX1	UN32129	0.701675	Neutral invertase
UN41025	0.732933	RNA-binding protein	UN35542	0.701675	Reticulon-like protein
UN42967	0.732933	Potyviral VPg interacting protein 1	UN36194	0.701675	F-box/LRR-repeat protein 10
UN43247	0.732933	F-box family protein	UN36522	0.701675	Ubiquitin conjugating enzyme
UN44371	0.732933	Glycerophosphoryl diester phosphodiesterase, putative	UN36830	0.701675	Gamma-soluble nsf attachment protein, putative

UN44989	0.732933	NADH-quinone oxidoreductase subunit H	UN38212	0.701675	Beta-1,4-N-acetylglucosaminyltransferase family protein
UN52443	0.732933	Myosin-11	UN39948	0.701675	Synaptotagmin-7
UN68062	0.732933	Dihydrolipoamide S-acetyltransferase family protein	UN40295	0.701675	Calnexin, putative
			UN43467	0.701675	Squalene synthase 2
			UN46995	0.701675	Peroxisomal targeting signal-1 receptor family protein

Supplemental Table S2: Genes correlated with the *EjCAD4* (*UN26767*) from C-CorA.

ID	coe	annotation
UN29269	0.810255	28 kDa heat-and acid-stable phosphoprotein, putative
UN37678	0.787852	Nucleotide-sugar transporter family protein LENGTH=350
UN10110	0.779643	WRKY transcription factor 24
UN37063	0.779643	ORM1-like protein 2
UN41845	0.779643	Enoyl-CoA hydratase/isomerase family protein
UN23387	0.776065	Heat stress transcription factor C-2b
UN35332	0.776065	BHLH transcription factor
UN36194	0.776065	F-box/LRR-repeat protein 10
UN15318	0.7711	Nuclear transcription factor Y subunit C8
UN43201	0.7711	Kinase family protein
UN31667	0.770051	Heat stress transcription factor A-1d
UN31699	0.770051	Jasmonate-zim-domain protein 1
UN32867	0.770051	Aminoacylase family protein
UN35486	0.770051	Protein translation factor SUI1
UN44564	0.770051	F-box family protein
UN68285	0.770051	Guanine nucleotide-binding protein alpha-2 subunit
UN13844	0.76277	Plant transposase (Ptta/En/Spm family) LENGTH=510
UN14676	0.76277	Membrane-anchored ubiquitin-fold protein
UN32129	0.76277	Neutral invertase
UN48850	0.76277	Late embryogenesis abundant (LEA) hydroxyproline-rich glycoprotein family LENGTH=252
UN39738	0.740532	HD domain class transcription factor
UN41340	0.740532	Beta-amylase, putative
UN29911	0.738657	Dehydration-responsive family protein
UN49801	0.73721	Sorbitol dehydrogenase
UN22245	0.736732	hydroxyproline-rich glycoprotein family protein LENGTH=219
UN36670	0.736732	Aluminum-induced protein with YGL and LRDR motifs
UN48596	0.736732	BZIP transcription factor
UN49438	0.736732	Molybdenum cofactor sulfurase
UN12756	0.736295	RPM1 interacting protein 4 transcript 2b
UN26874	0.736295	Homocysteine S-methyltransferase
UN34681	0.730297	Nbs-lrr resistance protein
UN01793	0.726755	Protein disulfide isomerase family
UN13858	0.726755	Kinase, putative
UN25438	0.726755	Ras-related protein Rab-1A
UN26767	0.726755	Cinnamyl alcohol dehydrogenase
UN30230	0.726755	RNA binding protein, putative
UN38244	0.726755	Heat shock protein HtpG
UN47293	0.726755	V-type proton ATPase subunit a

UN49723	0.726755	Peptidyl-prolyl cis-trans isomerase, cyclophilin type
UN40488	0.725476	RING/U-box superfamily protein
UN00997	0.724966	Malate dehydrogenase
UN01302	0.724966	Ankyrin repeat family protein
UN02169	0.724966	E3 ubiquitin-protein ligase BRE1-like 2
UN04457	0.724966	Kinase family protein
UN16407	0.724966	Plant Tudor-like RNA-binding protein LENGTH=326
UN32474	0.724966	ADP-ribosylation factor
UN36522	0.724966	Ubiquitin conjugating enzyme
UN38212	0.724966	Beta-1,4-N-acetylglucosaminyltransferase family protein
UN40538	0.724966	Mitogen-activated protein kinase
UN13939	0.722468	Hydroxyproline-rich glycoprotein family protein
UN35213	0.722468	Mitochondrial outer membrane protein porin
UN49012	0.722468	Protein disulfide isomerase-like protein
UN50732	0.722468	RING/U-box superfamily protein LENGTH=597
UN66878	0.722468	Methyl-CpG-binding domain protein 4
UN23363	0.717617	KRR1 small subunit processome component
UN41765	0.717617	Dihydrolipoyllysine-residue acetyltransferase component 2 of pyruvate dehydrogenase complex
UN13235	0.715678	U6 snRNA phosphodiesterase
UN41895	0.715455	Protein kinase superfamily protein LENGTH=380
UN50044	0.715455	Retrotransposon protein, putative, unclassified, expressed
UN36688	0.714435	F-box family protein
UN68549	0.714435	3-hydroxy-3-methylglutaryl coenzyme A reductase
UN33739	0.713024	Signal peptidase subunit-25
UN16627	0.712697	U-box domain containing protein
UN09615	0.707107	Asparagine--tRNA ligase
UN27280	0.702764	Rubisco accumulation factor 2, chloroplastic

Supplemental Table S3: Genes act synergistically with *EjCAD4* on the fruit lignin content identified by C-CorA.

ID	coe	annotation
UN00832	1	protein kinase family protein LENGTH=831
UN36305	0.866525	Calcium-binding endonuclease/exonuclease/phosphatase family LENGTH=436
UN50408	0.866525	Calmodulin 4
UN50635	0.866525	BAG family molecular chaperone regulator 2
UN21991	0.862458	pseudo-response regulator 5 LENGTH=667
UN30015	0.822989	Major facilitator superfamily protein LENGTH=493
UN36303	0.822989	Hypersensitive induced response protein 4
UN38608	0.822989	RING zinc finger protein-like
UN49080	0.822989	C2 calcium/lipid-binding plant phosphoribosyltransferase family protein
UN49435	0.822989	Quinone oxidoreductase, putative
UN12233	0.817837	Zinc-binding dehydrogenase family protein LENGTH=350
UN31852	0.817837	Beta-galactosidase
UN32916	0.817837	Senescence-associated protein DIN1
UN35883	0.817837	Mitochondrial protein import protein ZIM17
UN36650	0.817837	6-phosphogluconolactonase, putative
UN41037	0.817837	Protein kinase superfamily protein LENGTH=380
UN50077	0.817837	Pyruvate decarboxylase family protein
UN68301	0.817837	Alcohol dehydrogenase, putative
UN01880	0.816447	Leucine-rich receptor-like protein kinase family protein LENGTH=1136
UN03445	0.816447	Homeobox protein BEL1 homolog
UN07944	0.816447	Chorismate mutase 01
UN08015	0.816447	Major facilitator superfamily protein LENGTH=596
UN14802	0.816447	GLUCAN SYNTHASE-LIKE 4 family protein
UN18328	0.816447	vascular plant one zinc finger protein LENGTH=486
UN19397	0.816447	BAH domain-containing protein, putative
UN21684	0.816447	PAP-specific phosphatase HAL2-like protein
UN21955	0.816447	TRICHOME BIREFRINGENCE-LIKE 27 LENGTH=416
UN24976	0.816447	Calmodulin binding protein, putative
UN29854	0.816447	Membrane protein insertase YidC
UN31667	0.816447	Heat stress transcription factor A-1d
UN36306	0.816447	Calcium-binding endonuclease/exonuclease/phosphatase family LENGTH=436
UN36529	0.816447	BEST Arabidopsis thaliana protein match is: RPM1 interacting protein 13 . LENGTH=448
UN38077	0.816447	V-type proton ATPase 116 kDa subunit a isoform
UN41575	0.816447	Neutral/alkaline invertase 2
UN44019	0.816447	Autophagy-related protein
UN45375	0.816447	Dtdp-glucose 4,6-dehydratase, putative

UN46915	0.816447	Kinase family protein
UN68518	0.816447	Beta-amylase