

Supplemental Table 6. Mandarin (*C. clementina* and *C. unshiu*) specific gene groups and annotation

ID	Num. in <i>C. clementine</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>Clementine</i>	Members in <i>Canarium</i>	Members in <i>P. trifoliata</i>	
GF0002863	3	1	0	Hypothetical protein (4)			scaffold_1_mRNA_551.1.scaffold_3_mR NA_2558.1.scaffold_9_mRNA_2646.1 NA_2570.1.scaffold_4_mRNA_2572.1	<i>C. unshiu</i> _00131_mRNA_14.1 <i>C. unshiu</i> _00598_mRNA_2.1	-	
GF0002740	3	1	0	Hypothetical protein (4)						
GF0002733	3	1	0	Copia protein (2); Opic3 polypolytein (1); Orf190 protein (1)	DNA integration [GO:0015074 biological_process] (1); nucleic acid binding [GO:0005676 molecular_function] (1)	Reverse transcriptase, RNA-dependent DNA polymerase [IPR0131003] (4); ligase; catalytic site [IPR001584] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_1_mRNA_1787.1.scaffold_1_m RNA_2785.1.scaffold_5_mRNA_981.1	<i>C. unshiu</i> _00083_mRNA_36.1	-	
GF0002719	3	1	0	Mutator-like transposase (3); MuDR family transposase isoform 1 (1)	zinc ion binding [GO:0008270 molecular_function] (4); nucleic acid binding [GO:0005676 molecular_function] (2)	Transposase, MuDR, plant [IPR004332] (4); MULE transposase domain [IPR018289] (4); Zinc finger, PMZ-type scaffold_1_mRNA_1535.1.scaffold_2_m RNA_3553.1.scaffold_8_mRNA_146.1	<i>C. unshiu</i> _00273_mRNA_31.1	-		
GF0002696	3	1	0	Hypothetical protein (4)			Aspartic peptidase domain [IPR021109] (3); CCHC-type [IPR001878] (2)	scaffold_1_mRNA_1206.1.scaffold_2_m RNA_2279.1.scaffold_3_mRNA_1790.1	<i>C. unshiu</i> _01671_mRNA_7.1	
GF0002524	3	2	0	Hypothetical protein (4); Putative polyprotein (Aspartic protease, reverse transcriptase, ribonuclease H) (1)		Aspartic-type endopeptidase activity [GO:0004190 molecular_function] (4); protease [GO:0006508 biological_process] (1); zinc ion binding [GO:0008270 molecular_function] (1); nucleic acid binding [GO:0005676 molecular_function] (1)	Retropapain [IPR018061] (4); Aspartic peptidase, active site [IPR001969] (4); Aspartic peptidase domain [IPR021109] (3); Zinc finger, CCHC-type [IPR001878] (1); Reverse transcriptase domain [IPR004477] (1)			
GF0002169	3	2	0	Hypothetical protein (5)		Domain of unknown function DUF4283 [IPR012558] (5); Zinc finger, CXC-type [IPR001878] (3); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_4_mRNA_2241.1.scaffold_5_m RNA_2218.1.scaffold_5_mRNA_3752.1_00175_mRNA_26.1			
GF0002138	3	2	0	Hypothetical protein (5)		Mytobalbin-like phosphotransferase domain [IPR010569] (1)	scaffold_4_mRNA_1047.1.scaffold_4_m RNA_1246.1.scaffold_4_mRNA_1277.1_03085_mRNA_1.1			
GF0002109	3	2	0	Hypothetical protein (5)		Repeat of unknown function XGLLT [IPR008164] (1)	scaffold_3_mRNA_5230.1.scaffold_8_m RNA_56.1.scaffold_9_mRNA_1503.1_01396_mRNA_2.1			
GF0001919	3	2	0	Hypothetical protein (5)	peptidase [GO:0006508 biological_process] (3); cysteine-type peptidase activity [GO:0008234 molecular_function] (5)	Domain of unknown function DUF1985 [IPR015410] (5); Ulp1 protease family, C-terminal catalytic domain [IPR003653] (5)	scaffold_2_mRNA_3518.1.scaffold_3_m RNA_1454.1.scaffold_9_mRNA_3653.1_00112_mRNA_5.1			
GF0001886	3	2	0	Hypothetical protein (5)			scaffold_2_mRNA_2433.1.scaffold_5_m RNA_2052.1.scaffold_9_mRNA_2300.1_00145_mRNA_12.1			
GF0001838	3	2	0	Hypothetical protein (4); Disease resistance protein family (1)		Leucine-rich repeat domain, L domain-like [IPR032675] (1)	scaffold_2_mRNA_1189.1.scaffold_2_m RNA_3629.1.scaffold_7_mRNA_1631.1_01092_mRNA_11.1			
GF0001748	3	2	0	Hypothetical protein (5)		Viral movement protein [IPR028919] (1)	scaffold_1_mRNA_1387.1.scaffold_1_m RNA_1412.1.scaffold_1_mRNA_1459.1_00470_mRNA_27.1			
GF0001615	3	3	0	Disease resistance protein (3); Disease resistance protein RPS2 (1); LRR and NB-ARC domains-containing disease resistance protein, putative (1); NB-ARC domain-containing disease resistance protein, putative isoform 1 (1)	protein binding [GO:0005515 molecular_function] (6); ADP binding [GO:0043531 molecular_function] (5)	Leucine-rich repeat domain, L domain-like like [IPR032675] (6); Leucine-rich repeat domain [IPR01611] (6); NB-ARC [IPR002182] (5); P-loop containing nucleoside triphosphate hydrolase [IPR0027417] (5); Winged-helix-turn-helix domain [IPR011991] (3); Leucine-rich repeat, typical subtype [IPR003591] (1); AAA+ ATPase domain [IPR003593] (2)	scaffold_7_mRNA_1896.1.scaffold_7_m RNA_1971.1.scaffold_7_mRNA_1976.1_00245_mRNA_10.1_C.unshiu_01710_mRNA_4.1	<i>C. unshiu</i> _00050_mRNA_1.1_C.unshiu_01710_mRNA_4.1		
GF0001514	3	3	0	Disease resistance protein (3); Disease resistance protein (COP9 signalase class) (1); Putative domain resistance genes NBS-LRR family protein (1); Putative disease resistance protein (1)	ADP binding [GO:0043531 molecular_function] (6)	NB-ARC [IPR002182] (6); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (6); Leucine-rich repeat domain, L domain-like [IPR032675] (3); Winged-helix-turn-helix domain [IPR011991] (2); Dna-binding domain [IPR011991] (2); AAA+ ATPase domain [IPR003593] (2)	scaffold_5_mRNA_2639.1.scaffold_5_m RNA_2652.1.scaffold_5_mRNA_2663.1_01119_mRNA_1.1_C.unshiu_01443_mRNA_1.1	<i>C. unshiu</i> _00096_mRNA_7.1_C.unshiu_01443_mRNA_1.1		
GF0001482	3	3	0	Hypothetical protein (6)			scaffold_5_mRNA_1098.1.scaffold_8_m RNA_1428.1.scaffold_9_mRNA_3758.1	<i>C. unshiu</i> _00033_mRNA_38.1_C.unshiu_00825_mRNA_1.1		
GF0001298	3	3	0	Monosaccharide transport protein (6)			scaffold_3_mRNA_1011.1.scaffold_8_m RNA_293.1.scaffold_9_mRNA_2930.1	<i>C. unshiu</i> _00068_mRNA_31.1_C.unshiu_01467_mRNA_3.1_C.unshiu_02689_mRNA_8.1		
GF0001250	3	3	0	Hypothetical protein (6)			scaffold_2_mRNA_319.1.scaffold_9_m RNA_2268.1.scaffold_9_mRNA_2686.1	<i>C. unshiu</i> _00529_mRNA_21.1_C.unshiu_01730_mRNA_5.1		
GF0001159	3	3	0	Hypothetical protein (6)	RuvA domain 2-like [IPR010994] (1)	RuvA domain 2-like [IPR010994] (1)	scaffold_5_mRNA_2556.1.scaffold_3_m RNA_1508.1.scaffold_4_mRNA_2110.1	<i>C. unshiu</i> _00017_mRNA_29.1_C.unshiu_002217_mRNA_4.1		
GF0000616	3	5	0	Hypothetical protein (8)			scaffold_2_mRNA_2287.1.scaffold_5_m RNA_2471.1.scaffold_6_mRNA_195.1	<i>C. unshiu</i> _00337_mRNA_2.1_C.unshiu_00689_mRNA_17.1_C.unshiu_00871_mRNA_5.1 <i>C. unshiu</i> _01585_mRNA_8.1		
GF0018573	2	1	0	Hypothetical protein (3)	nucleic acid binding [GO:0003676 molecular_function] (2); oxidoreductase activity [GO:0016491 molecular_function] (1); oxidation-reduction process [GO:0005114 biological_process] (1)					
GF0018556	2	1	0	LRR receptor-like kinase family protein 0 (2); CDNA clone J023022CC01, full insert sequence (1)	protein phosphorylation [GO:0006468 biological_process] (3); protein kinase activity [GO:0004672 molecular_function] (3); ATP binding [GO:0005242 molecular_function] (3); protein binding [GO:0005515 molecular_function] (2)	Isopentenyl N-synthase-like [IPR027443] (2); Reverse transcriptase domain [IPR004477] (2); Ribonuclease H-like domain [IPR012337] (2); Oxygatohydrolase [IPR005123] (1)	scaffold_9_mRNA_3284.1.scaffold_9_m RNA_3285.1	<i>C. unshiu</i> _00741_mRNA_2.1	-	
GF0018304	2	1	0	Hypothetical protein (3)		Protein kinase, ATP binding site [IPR017441] (3); Tyrosine-protein kinase domain [IPR001666] (3)	<i>C. unshiu</i> _00033_mRNA_38.1_C.unshiu_00825_mRNA_6.1_C.unshiu_01443_mRNA_1.1			
GF0018277	2	1	0	Putative polyprotein (Aspartic proteimase, 0 reverse transcriptase, ribonuclease H) (2); Hypothetical protein (1)		Protein kinase domain [IPR020668] (3); Small heat shock protein Hsp20 [IPR031107] (2)				
GF0018065	2	1	0	Hypothetical protein (3)		Reverse transcriptase domain [IPR000477] (3)	scaffold_9_mRNA_2383.1.scaffold_9_m RNA_2384.1	<i>C. unshiu</i> _00763_mRNA_20.1		
GF0017943	2	1	0	2-oxoglutarate (2OG) and Fe(II)-dependent oxygenase superfamily protein, putative (3)		Isopentenyl N synthase-like [IPR027443] (3); Non-heme dixygenase N-terminal domain [IPR026992] (3)	scaffold_9_mRNA_1578.1.scaffold_9_m RNA_2138.1	<i>C. unshiu</i> _01433_mRNA_9.1		
GF0017165	2	1	0	Germinal-like protein subfamily 2 member 0 (2)	manganese ion binding [GO:0030145 molecular_function] (3); nutrient reservoir activity [GO:0045735 molecular_function] (3)	Protein kinase domain [IPR0001997] (3); Leucine-rich repeat domain, L domain-like [IPR020668] (3); Leucine-rich repeat, typical N-terminal type [IPR013210] (2); Leucine-rich repeat, typical subtype [IPR003591] (2); Concanavalin A-like lectin/glycanses domain [IPR013320] (1)	scaffold_9_mRNA_3252.1.scaffold_9_m RNA_3253.1	<i>C. unshiu</i> _00095_mRNA_16.1		
GF0016545	2	1	0	Hypothetical protein (3)		HS2-like chaperone [IPR008978] (3); Alpha crystallin-Hsp20 domain [IPR026986] (3); Small heat shock protein Hsp20 [IPR031107] (2)	scaffold_9_mRNA_2488.1.scaffold_9_m RNA_2496.1	<i>C. unshiu</i> _00104_mRNA_34.1		
GF0016296	2	1	0	Disease resistance protein (3)	ADP binding [GO:0043531 molecular_function] (3)	Reverse transcriptase domain [IPR000477] (3)	scaffold_9_mRNA_2383.1.scaffold_9_m RNA_2384.1	<i>C. unshiu</i> _00763_mRNA_20.1		
GF0015996	2	1	0	Hypothetical protein (3)			scaffold_9_mRNA_1112.1.scaffold_9_m RNA_1134.1	<i>C. unshiu</i> _00334_mRNA_12.1		
GF0015676	2	1	0	Putative non-LTR reverse transcriptase (1); Putative non-LTR retroelement 0 reverse transcriptase (1); Putative non-LTR retroelement reverse transcriptase (1)	nucleic acid binding [GO:0003676 molecular_function] (3)	RmC-like cupin domain [IPR011051] (3); Cupin [IPB006045] (3); Rnf6-like jelly roll fold [IPR014710] (3); Germinal domain [IPR011991] (2); Pentatricopeptide repeat [IPR002885] (1)	scaffold_7_mRNA_567.1.scaffold_8_mR NA_2690.1	<i>C. unshiu</i> _00858_mRNA_4.1	-	
GF0015624	2	1	0	Hypothetical protein (3)		Leucine-rich repeat domain, L domain-like [IPR032675] (3); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3); NB-ARC [IPR002182] (3); Winged-helix-turn-helix DNA-binding domain [IPR011991] (2); Pentatricopeptide repeat [IPR002885] (1)	scaffold_7_mRNA_2616.1.scaffold_7_m RNA_2621.1	<i>C. unshiu</i> _01041_mRNA_2.1		
GF0015578	2	1	0	Hypothetical protein (3)			scaffold_7_mRNA_1752.1.scaffold_7_m RNA_1757.1	<i>C. unshiu</i> _00055_mRNA_49.1		
GF0015344	2	1	0	TCP transcription factor CYC1C (1); Hypothetical protein (1); Transcription factor CYC1 (1)		Zinc finger, CCHC-type [IPR001878] (3); Transcription factor TCP subgroup [IPR017887] (3); Transcription factor, TCP [IPR005333] (3)	scaffold_6_mRNA_91.1.scaffold_8_mR NA_1231.1	<i>C. unshiu</i> _00329_mRNA_14.1		
GF0014704	2	1	0	Hypothetical protein (3)	zinc ion binding [GO:0008270 molecular_function] (2); nucleic acid binding [GO:0005676 molecular_function] (2)	Zinc finger, CCHC-type [IPR001878] (2)	<i>C. unshiu</i> _00145_mRNA_35.1			
GF0014655	2	1	0	Hypothetical protein (3)			scaffold_6_mRNA_1834.1.scaffold_8_m RNA_2504.1	<i>C. unshiu</i> _00020_mRNA_59.1		
GF0014605	2	1	0	Hypothetical protein (3)		Retrotransposon gag domain [IPR005162] (3)	scaffold_6_mRNA_171.1.scaffold_7_mR NA_1092.1	<i>C. unshiu</i> _00053_mRNA_11.1		
GF0014380	2	1	0	Hypothetical protein (3)	cysteine-type peptidase activity [GO:000224 molecular_function] (3); proteolytic enzyme [GO:000508 biological_process] (3)	Domain of unknown function DUF1985 [IPR015410] (3); Ulp1 protease family, C-terminal catalytic domain [IPR003653] RNA_2986.1	scaffold_6_mRNA_1098.1.scaffold_9_m RNA_2990.1	<i>C. unshiu</i> _00781_mRNA_14.1		

ID	Num in <i>C. clementiae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>	
GF0013772	2	1	0	Hypothetical protein (2); Putative disease resistance protein RGA1 (1)	oxidation-reduction process [GO:005114 biological process] (3); oxidoreductase activity [GO:0016491 molecular function] (3); carotene 7,8-desaturase activity [GO:0016719 molecular function] (2); carotenoid biosynthetic process [GO:0016117 biological process] (2)	Leucine-rich repeat domain, L-domain-like [IPR032675] (3); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); GPN-loop GTPase [IPR004130] (2); GPN-loop GTPase 2 [IPR030231] (2)	scaffold_5_mRNA_445.1,scaffold_5_mR NA_461.1	C_unshiu_01064_mRNA_8.1	-	
GF0013233	2	1	0	Hypothetical protein (3)	Disease resistance family protein / LRR family protein, putative (1); LRR 0 receptor-like serine/threonine-protein kinase GS01 (1); LRR receptor-like serine/threonine-protein kinase GS02 (1)	Amine oxidase [IPR002937] (3); Zeta-carotene desaturase [IPR014103] (2); FAD:NAD(P)H-binding domain [IPR023753] (1)	scaffold_5_mRNA_3320.1,scaffold_5_m RNA_3350.1	C_unshiu_00021_mRNA_1.1	-	
GF0013184	2	1	0	Hypothetical protein (3)	Putative kinase GS01 (1); LRR protein binding [GO:0005515 molecular function] (3)	Leucine-rich repeat domain, L-domain-like [IPR032675] (3); Leucine-rich repeat, typical subtype [IPR003591] (3); Leucine-rich repeat [IPR001611] (3); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2)	scaffold_5_mRNA_3146.1,scaffold_5_m RNA_3154.1	C_unshiu_02984_mRNA_2.1	-	
GF0013047	2	1	0	Hypothetical protein (3)	zinc ion binding [GO:0008270 molecular function] (3); transposase activity [GO:0004803 MuDR family transposase isoform 1C] (2); transposition molecular function] (2); transposition, DNA-mediated [GO:0006313 biological process] (2); DNA binding [GO:0003677 molecular function] (2)	Transposase, MELP, plant [IPR004332] (3); Zinc finger, PMZ-type [IPR006564] (3); MULE transposase domain [IPR018389] (3); Zinc finger, SWIM-type [IPR007527] (3); Transposase, mutator type [IPR001207] (2) S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (3); DNA (cytosine-5-ribosyl)-transferase [IPR0022702] (3); Bromo adjacent homolog (BAH) domain [IPR001025] (3); DNA methylase, C-5 cytosine-specific, conserved site [IPR031103] (2); C-5 cytosine methylationtransferase [IPR001525]	scaffold_5_mRNA_2479.1,scaffold_6_m RNA_585.1	C_unshiu_01124_mRNA_7.1	-	
GF0013019	2	1	0	Putative muDR family transposase-like (1)	chromatin binding [GO:0003682 molecular function] (3); methyltransferase activity [GO:0008168 molecular function] (1)	Transposase, MELP, plant [IPR004332] (3); Zinc finger, PMZ-type [IPR006564] (3); MULE transposase domain [IPR007527] (3); Transposase, mutator type [IPR001207] (2) S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (3); DNA (cytosine-5-ribosyl)-transferase [IPR0022702] (3); Bromo adjacent homolog (BAH) domain [IPR001025] (3); DNA methylase, C-5 cytosine-specific, conserved site [IPR031103] (2); C-5 cytosine methylationtransferase [IPR001525]	scaffold_5_mRNA_2368.1,scaffold_5_m RNA_2656.1	C_unshiu_01916_mRNA_3.1	-	
GF0012975	2	1	0	Hypothetical protein (3)	SLG-Sc and SLA-Sc genes and Melmoth retrotransposon sequence (3)	nucleic acid binding [GO:0003676 molecular function] (1)	Leucine-rich repeat domain, L-domain-like [IPR032675] (3); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3); NB-ARC [IPR002182] (3)	scaffold_5_mRNA_218.1,scaffold_5_m RNA_226.1	C_unshiu_00904_mRNA_5.1	-
GF0012863	2	1	0	Putative protein (3)	Putative disease resistance RGA1 (1); TIR-NBS-LRR type disease resistance protein (1); Disease resistance protein RGA4 (1)	Ribonuclease H-like domain [IPR012337] (1); Reverse transcriptase, RNA-dependent RNA polymerase [IPR011181] (2)	scaffold_5_mRNA_170.1,scaffold_5_m RNA_198.2	C_unshiu_00083_mRNA_35.1	-	
GF0012828	2	1	0	Hypothetical protein (3)	Solute carrier family 22 member 44 (2); Hypothetical protein (1)	Leucine-rich repeat domain, L-domain-like [IPR032675] (3); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3); NB-ARC [IPR002182] (3)	scaffold_5_mRNA_1173.1,scaffold_5_m RNA_1174.1	C_unshiu_01250_mRNA_2.1	-	
GF0012770	2	1	0	Hypothetical protein (3)	Mitochondrial carrier domain [IPR023917] (3); P-loop containing nucleoside triphosphate hydrolase domain [IPR00108] (3) Winged helix-turn-helix DNA-binding domain [IPR011991] (3); O-methyltransferase, family 2 [IPR001077] (3); O-methyltransferase COMT-type [IPR016641] (3); S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (3)	Mitochondrial carrier domain [IPR023917] (3); P-loop containing nucleoside triphosphate hydrolase domain [IPR00108] (3) Winged helix-turn-helix DNA-binding domain [IPR011991] (3); O-methyltransferase, family 2 [IPR001077] (3); O-methyltransferase COMT-type [IPR016641] (3); S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (3)	scaffold_5_mRNA_1170.1,scaffold_5_m RNA_1706.1	C_unshiu_01766_mRNA_4.1	-	
GF0012769	2	1	0	Hypothetical protein (1)	Caffeic acid 3-O-methyltransferase (2); Caffeic acid O-methyltransferase (1)	O-methyltransferase activity [GO:0008171 molecular function] (3); methyltransferase activity [GO:0008168 molecular function] (3)	Thioredoxin-like fold [IPR012336] (1)	scaffold_4_mRNA_786.1,scaffold_5_m RNA_2803.1	C_unshiu_00980_mRNA_9.1	-
GF0012630	2	1	0	Hypothetical protein (3)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	nucleic acid binding [GO:0003676 molecular function] (3); zinc ion binding [GO:0008270 molecular function] (3); RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular function] (1)	Domain of unknown function DUFA283 [IPR025558] (3); Zinc finger, CCHC-type [IPR001878] (3); Zinc knuckle CX2CX4HX4C [IPR025838] (3); Ribonuclease H-like domain [IPR012337] (1); Ribonuclease H domain [IPR002156] (1)	scaffold_4_mRNA_775.1,scaffold_6_m RNA_940.1	C_unshiu_00407_mRNA_20.1	-
GF0012628	2	1	0	Hypothetical protein (3)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	Domain of unknown function DUFA283 [IPR025558] (3); Zinc finger, CCHC-type [IPR001878] (3); Zinc knuckle CX2CX4HX4C [IPR025838] (3); Ribonuclease H-like domain [IPR012337] (1); Ribonuclease H domain [IPR002156] (1)	scaffold_4_mRNA_625.1,scaffold_4_m RNA_797.1	C_unshiu_00607_mRNA_7.1	-
GF0012598	2	1	0	Hypothetical protein (3)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	Domain of unknown function DUFA283 [IPR025558] (3); Zinc finger, CCHC-type [IPR001878] (3); Zinc knuckle CX2CX4HX4C [IPR025838] (3); Ribonuclease H-like domain [IPR012337] (1); Ribonuclease H domain [IPR002156] (1)	scaffold_4_mRNA_624.1,scaffold_4_m RNA_796.1	C_unshiu_00607_mRNA_9.1	-
GF0012597	2	1	0	Hypothetical protein (3)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	Domain of unknown function DUFA283 [IPR025558] (3); Zinc finger, CCHC-type [IPR001878] (3); Zinc knuckle CX2CX4HX4C [IPR025838] (3); Ribonuclease H-like domain [IPR012337] (1); Ribonuclease H domain [IPR002156] (1)	scaffold_4_mRNA_2432.1,scaffold_8_m RNA_3252.1	C_unshiu_00011_mRNA_23.1	-
GF0011508	2	1	0	Hypothetical protein (3)	MATE efflux family protein, expressed 0 (2); Protein TRANSPARENT TESTA 12-like protein (1)	Multi antimicrobial extrusion protein [IPR002528] (3)	Ribonuclease H-like domain [IPR012337] (3); Reverse transcriptase, RNA-dependent RNA polymerase [IPR000477] (2); Domain of unknown function DUFA283 [IPR025558] (1); Zinc finger, CCHC-type [IPR001878] (1); Zinc knuckle CX2CX4HX4C [IPR025836] (1)	scaffold_4_mRNA_2068.1,scaffold_5_m RNA_4596.1	C_unshiu_00216_mRNA_7.1	-
GF0011505	2	1	0	Hypothetical protein (3)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (3); transmembrane transport [GO:0055085 biological process] (3)	MATE efflux family protein, expressed 0 (2); Protein TRANSPARENT TESTA 12-like protein (1)	Multi antimicrobial extrusion protein [IPR002528] (3)	scaffold_4_mRNA_2051.1,scaffold_4_m RNA_2062.1	C_unshiu_00700_mRNA_5.1	-
GF0010919	2	1	0	Hypothetical protein (3)	Putative non-LTR retroelement reverse transcriptase (2); RNA-directed DNA polymerase (Reverse transcriptase); Polymethylol transferase; Ribonuclease H-fold-like protein (1)	mucic acid binding [GO:0003676 molecular function] (3); zinc ion binding [GO:0008270 molecular function] (3); RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular function] (1)	Ribonuclease H-like domain [IPR012337] (3); Reverse transcriptase, RNA-dependent RNA polymerase [IPR000477] (2); Domain of unknown function DUFA283 [IPR025558] (1); Zinc finger, CCHC-type [IPR001878] (1); Zinc knuckle CX2CX4HX4C [IPR025836] (1)	scaffold_3_mRNA_74.1,scaffold_8_m RNA_1800.1	C_unshiu_01059_mRNA_1.1	-
GF0010555	2	1	0	Hypothetical protein (3)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	cysteine-type peptidase activity [GO:0008234 molecular function] (3); proteolytic activity [GO:0005608 molecular function] (3); biological process [GO:0015074 molecular function] (3)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (3)	scaffold_3_mRNA_5152.1,scaffold_8_m RNA_779.1	C_unshiu_00016_mRNA_54.1	-
GF0009624	2	1	0	Hypothetical protein (3)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (3)	scaffold_3_mRNA_4218.1,scaffold_3_m RNA_4219.1	C_unshiu_02578_mRNA_6.1	-
GF0009518	2	1	0	Receptor like protein 33 (2); Receptor like protein 27 (1)	protein binding [GO:0005515 molecular function] (2)	Leucine-rich repeat domain, L-domain-like [IPR032675] (3); Leucine-rich repeat oxidation-reduction process [GO:005114 biological process] (3); oxidoreductase activity, acting on paired donors, with incorporation or reduction of one oxygen atom [GO:0016764 molecular function] (3); ion binding [GO:0005506 molecular function] (3); heme binding [GO:00020037 molecular function] (3)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (3)	scaffold_3_mRNA_3779.1,scaffold_3_m RNA_3794.1	C_unshiu_00188_mRNA_19.1	-
GF0009483	2	1	0	Secologanin synthase (2); Putative cytochrome P450 monooxygenase CYP72AS1 (1)	Cytochrome P450 [IPR00128] (3); Cytochrome P450, F-class, group I [IPR00240] (3); Cytochrome P450, conserved site [IPR017972] (2)	Cytochrome P450 [IPR00128] (3); Cytochrome P450, F-class, group I [IPR00240] (3); Cytochrome P450, conserved site [IPR017972] (2)	scaffold_3_mRNA_3640.1,scaffold_3_m RNA_3641.1	C_unshiu_01261_mRNA_7.1	-	
GF0009446	2	1	0	Hypothetical protein (2); Putative Ty-1 copia retrotransposon (1)	DNA integrase [GO:0015074 biological process] (3); nucleic acid binding [GO:0003676 molecular function] (3)	Ribonuclease H-like domain [IPR012337] (3); Integrase, catalytic core [IPR001384] (3); GAATTC endonuclease [IPR001289] (3); DNA-dependent RNA polymerase [IPR013103] (1)	scaffold_3_mRNA_3484.1,scaffold_9_m RNA_3298.1	C_unshiu_00381_mRNA_12.1	-	
GF0009410	2	1	0	Retrotransposon protein, putative, Ty3-gypsy subclass, expressed (3)	zinc ion binding [GO:0008270 molecular function] (3); formation of transcription-DNA complex [IPR000477] (2)	Aspartic peptidase domain [IPR021109] (3); FHY3/FAI1 family [IPR031052] (3); Methyltransferase domain [IPR000478] (3); Zinc finger, SWIM-type [IPR000479] (3)	scaffold_3_mRNA_3354.1,scaffold_8_m RNA_866.1	C_unshiu_01045_mRNA_10.1	-	
GF0009400	2	1	0	Protein FAR1-RELATED SEQUENCE 5 (2); Protein FAR1-RELATED SEQUENCE 9 (1)	Protein binding [GO:0003676 molecular function] (2)	FAR1-FAI1 family [IPR031052] (3); Methyltransferase domain [IPR000478] (3); Zinc finger, SWIM-type [IPR000479] (3); FAR1 DNA binding domain [IPR004330] (2); Zinc finger, CCHC-type [IPR001878] (2)	scaffold_3_mRNA_3289.1,scaffold_6_m RNA_799.1	C_unshiu_00102_mRNA_8.1	-	
GF0009265	2	1	0	Hypothetical protein (3)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	Zinc finger, CCHC-type [IPR001878] (2); Retrotansposon gag domain [IPR005162] (1)	Ribonuclease H-like domain [IPR012337] (3); Retrotansposon gag domain [IPR005162] (1)	scaffold_3_mRNA_2694.1,scaffold_9_m RNA_1410.1	C_unshiu_00423_mRNA_2.1	-
GF0009264	2	1	0	Hypothetical protein (3)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	Leucine-rich repeat domain, L-domain-like [IPR032675] (3)	scaffold_3_mRNA_2691.1,scaffold_3_m RNA_2707.1	C_unshiu_01233_mRNA_2.1	-	
GF0009198	2	1	0	Hypothetical protein (2); Transposable element Ac (1)	DNA binding [GO:0003677 molecular function] (3); nucleic acid binding [GO:0003676 molecular function] (3)	Ribonuclease H-like domain [IPR012337] (3); hAT-like transposase, RNA-h fold [IPR025252] (3)	scaffold_3_mRNA_2488.1,scaffold_5_m RNA_1866.1	C_unshiu_00242_mRNA_15.1	-	
GF0009195	2	1	0	Hypothetical protein (3)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	DNA-dependent RNA polymerase [IPR005371] (2); Nucleic acid-binding, OB-fold [IPR012340] (1)	DNA-dependent RNA polymerase [IPR005371] (2); Nucleic acid-binding, OB-fold [IPR012340] (1)	scaffold_3_mRNA_2478.1,scaffold_4_m RNA_917.1	C_unshiu_00013_mRNA_37.1	-
GF0009188	2	1	0	Hypothetical protein (3)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	Retrotansposon gag domain [IPR005162] (3)	Retrotansposon gag domain [IPR005162] (3)	scaffold_3_mRNA_2439.1,scaffold_7_m RNA_1159.1	C_unshiu_01265_mRNA_13.1	-
GF0009180	2	1	0	Hypothetical protein (2); Ulp1 protease family, carboxy-terminal domain protein (1)	cysteine-type peptidase activity [GO:0008234 molecular function] (3); proteolysis [GO:0005608 biological process] (3)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (3)	scaffold_3_mRNA_2404.1,scaffold_8_m RNA_1860.1	C_unshiu_00413_mRNA_5.1	-	
GF0009158	2	1	0	Hypothetical protein (3)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	Aspartic peptidase domain [IPR021109] (3)	scaffold_3_mRNA_2236.1,scaffold_3_m RNA_2349.1	C_unshiu_00625_mRNA_9.1	-	
GF0009117	2	1	0	Hypothetical protein (3)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	Aspartic peptidase domain [IPR021109] (3)	scaffold_3_mRNA_2217.1,scaffold_3_m RNA_3407.1	C_unshiu_01549_mRNA_4.1	-	
GF0009052	2	1	0	Hypothetical protein (3)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	Aspartic peptidase domain [IPR021109] (3)	scaffold_3_mRNA_1879.1,scaffold_3_m RNA_1896.1	C_unshiu_01678_mRNA_9.1	-	
GF0009056	2	1	0	Hypothetical protein (3)	Putative membrane transport protein [GO:0006855 biological process] (3); membrane [GO:0011602 cellular component] (3); antiporter activity [GO:0008270 molecular function] (3); drug transmembrane transporter activity [GO:0004523 molecular function] (1)	Aspartic peptidase domain [IPR021109] (3)	scaffold_3_mRNA_1523.1,scaffold_5_m RNA_1158.1	C_unshiu_00101_mRNA_47.1	-	

ID	Num in <i>C. clementiae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0008931	2	1	0	Putative mmaDR family transposase-like (2); AtpA (1)	zinc ion binding [GO:0008270 molecular_function] (3); nucleic acid binding [GO:0003676 molecular_function] (3); transposition DNA-mediated [GO:0006313 biological_process] (2); transposase activity [GO:0006314 molecular_function] (2); DNA binding [GO:0003677 molecular_function] (2) metabolic process [GO:0008152 biological_process] (3); transferase activity, transferring hexosyl groups [GO:0016758 molecular_function] (3)	Zinc finger, CCHC-type [IPR001878] (3); Zinc finger, Zfp-type [IPR006564] (3); Zinc finger, SWI5-type [IPR007527] (3); Transposase, mutator type [IPR001207] (1); MULE transposase domain [IPR018289] (2)	scaffold_3_mRNA_1439.1,scaffold_6_m RNA_1954.1	C_unshiu_00259_mRNA_39.1	-
GF0008733	2	1	0	Hypothetical protein (2); UDP-glycosyltransferase 83A1 (1)	UDP-glucuronosyltransferase [IPR002213] (3)	scaffold_3_mRNA_1039.1,scaffold_3_m RNA_1065.1	glucosyltransferase [IPR00213] (3)	C_unshiu_00030_mRNA_76.1	-
GF0008535	2	1	0	Retrotransposon protein, putative, Ty3-gypsy subclass (1); DNA/RNA polymerases superfamily protein (1); Hypothetical protein (1)	putative protein [GO:0006508 biological_process] (3); aspartic-type endopeptidase activity [GO:0004190 molecular_function] (3)	Aspartic peptidase, active site [IPR001669] (3); Aspartic peptidase domain [IPR021109] (3); Retrotransposon gag domain [IPR005162] (3)	scaffold_2_mRNA_558.1,scaffold_7_m RNA_1250.1	C_unshiu_00646_mRNA_16.1	-
GF0008407	2	1	0	Hypothetical protein (3)	-	scaffold_2_mRNA_4605.1,scaffold_8_m RNA_2654.1	-	C_unshiu_00337_mRNA_15.1	-
GF0008271	2	1	0	Hypothetical protein (3)	P-loop containing nucleoside triphosphatase [IPR027471] (1)	scaffold_2_mRNA_443.1,scaffold_4_mRNA_1594.1	C_unshiu_00244_mRNA_24.1	-	-
GF0007901	2	1	0	Hypothetical protein (3)	zinc ion binding [GO:0008270 molecular_function] (3); nucleic acid binding [GO:0003676 molecular_function] (3); nucleic acid binding [GO:0003676 molecular_function] (1)	Zinc finger, CCHC-type [IPR001878] (3); Zinc finger, Zfp-type [IPR023891] (3); Aspartic peptidase domain [IPR021109] (1); Aspartic peptidase, active site [IPR001669] (1); Retropipans [IPR018061] (1)	scaffold_2_mRNA_392.1,scaffold_5_mRNA_1015.1	C_unshiu_00246_mRNA_9.1	-
GF0007847	2	1	0	Hypothetical protein (3)	-	scaffold_2_mRNA_3838.1,scaffold_9_mRNA_1059.1	-	C_unshiu_00089_mRNA_37.1	-
GF0007476	2	1	0	Putative non-LTR retroelement reverse transcriptase (2); RNA-directed DNA polymerase; Ribonuclease H, putative (1)	nucleic acid binding [GO:0003676 molecular_function] (1)	Endonuclease/exonuclease/phosphatase [IPR005135] (3); Reverse transcriptase zinc-binding domain [IPR023690] (2); Reverse transcriptase domain [IPR000177] (2); Ribonuclease H-like domain [IPR012337] (1)	scaffold_2_mRNA_3224.1,scaffold_7_mRNA_2536.1	C_unshiu_00141_mRNA_10.1	-
GF0007244	2	1	0	Heat shock protein 60 isoform 2 (2); Chaperonin-60 kDa protein isoform 2 (1)	ATP binding [GO:0005524 (3); Chaperonin Cpn60/TCP-1 family [IPR002423] (2); TCP-1 like chaperone intermediate domain [IPR027410] (1)	GnEL-like apical domain [IPR027409] (3); Chaperonin Cpn60/TCP-1 family [IPR002423] (2); TCP-1 like chaperone intermediate domain [IPR027410] (1)	scaffold_2_mRNA_2653.1,scaffold_2_mRNA_2656.1	C_unshiu_00417_mRNA_3.1	-
GF0007243	2	1	0	Hypothetical protein (3)	rRNA processing [GO:0006564 biological_process] (3); nucleic acid-containing compound metabolic process [GO:0006139 biological_process] (3); nucleic acid binding [GO:0003676 molecular_function] (3)	Ribonuclease H-like domain [IPR012337] (3); Putative pre-16S rRNA nucleic acid [IPR005227] (3); YggF/RNase H-like domain [IPR006641] (3)	scaffold_2_mRNA_2652.1,scaffold_2_mRNA_2655.1	C_unshiu_00417_mRNA_2.1	-
GF0007136	2	1	0	Hypothetical protein (3)	-	scaffold_2_mRNA_198.1,scaffold_9_mRNA_2423.1	C_unshiu_00464_mRNA_5.1	-	-
GF0006671	2	1	0	Hypothetical protein (2); Putative Ty3-gypsy-like retroelement polypolymerase (1)	nucleic acid binding [GO:0003676 molecular_function] (3)	Ribonuclease H-like domain [IPR012337] (3)	scaffold_1_mRNA_976.1,scaffold_5_mRNA_1006.1	C_unshiu_00641_mRNA_10.1	-
GF0005994	2	1	0	Myb domain protein 5 (2); Myb domain protein 5 isoform 1 (1)	DNA binding [GO:0003677 molecular_function] (3)	Myb domain [IPR017930] (3); SANT/Myb domain [IPR001005] (3); Homeobox domain-like [IPR009057] (2); RNA_737.1	scaffold_1_mRNA_3085.1,scaffold_3_mRNA_3085.1	C_unshiu_00442_mRNA_24.1	-
GF0005648	2	1	0	Hypothetical protein (3)	-	Homeodomain-like [IPR009057] (1)	scaffold_1_mRNA_2443.1,scaffold_9_mRNA_2472.1	C_unshiu_00626_mRNA_15.1	-
GF0005611	2	1	0	Hypothetical protein (3)	-	scaffold_1_mRNA_2300.1,scaffold_3_mRNA_45.1	C_unshiu_01237_mRNA_10.1	-	-
GF0005508	2	1	0	Hypothetical protein (3)	-	Retrotransposon gag domain [IPR005162] (3)	scaffold_1_mRNA_2055.1,scaffold_2_mRNA_1138.1	C_unshiu_00044_mRNA_25.1	-
GF0005416	2	1	0	Hypothetical protein (3)	-	scaffold_1_mRNA_1782.1,scaffold_8_mRNA_1541.1	C_unshiu_00441_mRNA_22.1	-	-
GF0005413	2	1	0	Hypothetical protein (3)	-	scaffold_1_mRNA_1764.1,scaffold_5_mRNA_5226.1	C_unshiu_00464_mRNA_9.1	-	-
GF0005360	2	1	0	Hypothetical protein (3)	-	scaffold_1_mRNA_1606.1,scaffold_3_mRNA_4360.1	C_unshiu_01294_mRNA_2.1	-	-
GF0005303	2	1	0	Putative nuclease HARB1 (2); Hypothetical protein (1)	carbohydrate metabolic process [GO:000975 biological_process] (2); hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular_function] (2)	Hydrolyzing: hydrolase-derived nucleic domain [IPR027380] (3); Glycoside hydrolase family 17 [IPR000490] (2); Glycoside hydrolase superfamily [IPB017853] (4); Glycoside hydrolase, catalytic domain [IPR013781] (2)	scaffold_1_mRNA_1334.1,scaffold_3_mRNA_6170.1	C_unshiu_01540_mRNA_2.1	-
GF0005249	2	1	0	Hypothetical protein (3)	-	Glycoside hydrolase family 17 [IPR000490] (4); Glycoside hydrolase superfamily [IPB017853] (4); Glycoside hydrolase, catalytic domain [IPR013781] (1)	scaffold_1_mRNA_1170.1,scaffold_6_mRNA_299.1	C_unshiu_00385_mRNA_5.1	-
GF0004997	2	2	0	Glucan endo-1,3-beta-glucosidase, basic isoform (4)	hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular_function] (4); carbohydrate metabolic process [GO:0005975 biological_process] (4)	Glycoside hydrolase family 17 [IPR000490] (4); Glycoside hydrolase superfamily [IPB017853] (4); Glycoside hydrolase, catalytic domain [IPR013781] (2)	scaffold_9_mRNA_2586.1,scaffold_9_mRNA_2587.1	C_unshiu_00046_mRNA_10.1,C_unshiu_00046_mRNA_7.1	-
GF0004968	2	2	0	Hypothetical protein (4)	-	LOG family [IPR031100] (2)	scaffold_9_mRNA_197.1,scaffold_9_mRNA_2713.1	C_unshiu_00355_mRNA_10.1,C_unshiu_01198_mRNA_3.1	-
GF0004873	2	2	0	Hypothetical protein (4)	-	Protein of unknown function DUF4598 [IPR027921] (4)	scaffold_9_mRNA_583.1,scaffold_9_mRNA_3166.1	C_unshiu_00599_mRNA_9.1,C_unshiu_01091_mRNA_3.1	-
GF0004739	2	2	0	Hypothetical protein (4)	cysteine-type peptidase activity [GO:0006234 molecular_function] (4); proteolysis [GO:0006508 biological_process] (4)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (4)	scaffold_9_mRNA_232.1,scaffold_8_mRNA_256.1	C_unshiu_00024_mRNA_97.2,C_unshiu_00116_mRNA_11.1	-
GF0004715	2	2	0	Hypothetical protein (4)	proteolysis [GO:0006508 biological_process] (4)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (4)	scaffold_8_mRNA_1986.1,scaffold_9_mRNA_2674.1	C_unshiu_00032_mRNA_55.1,C_unshiu_00093_mRNA_40.1	-
GF0004703	2	2	0	Hypothetical protein (4)	-	scaffold_8_mRNA_1593.1,scaffold_9_mRNA_2335.1	C_unshiu_00118_mRNA_50.1,C_unshiu_01343_mRNA_2.1	-	
GF0004698	2	2	0	Hypothetical protein (4)	-	scaffold_8_mRNA_1558.1,scaffold_9_mRNA_2357.1	C_unshiu_00118_mRNA_69.1,C_unshiu_01687_mRNA_11.1	-	
GF0004577	2	2	0	Tyrosine decarboxylase (4)	carboxylic acid metabolic process [GO:0019752 biological_process] (4); carboxy-base activity [GO:0016831 molecular_function] (4); pyridoxal phosphate binding [GO:0030170 nucleic acid binding] (4); tyrosine decarboxylase activity [GO:000824 molecular_function] (4); cellular amino acid metabolic process [GO:0006520 biological_process] (4)	Pyridoxal phosphate-dependent transaminase, major region, subdomain 2 [IPR015422] (2)	scaffold_7_mRNA_2706.1,scaffold_7_mRNA_2711.1	C_unshiu_01382_mRNA_3.1,C_unshiu_02190_mRNA_3.1	-
GF0004474	2	2	0	Hypothetical protein (4)	proteolysis [GO:0006508 biological_process] (2); aspartic-type endopeptidase activity [GO:0004190 molecular_function] (2)	Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_7_mRNA_1639.1,scaffold_7_mRNA_1677.1	C_unshiu_00352_mRNA_16.1,C_unshiu_02190_mRNA_3.1	-
GF0004365	2	2	0	Hypothetical protein (4)	-	Aspartic peptidase domain [IPR021109] (4); Aspartic peptidase, active site [IPR001669] (2)	scaffold_6_mRNA_297.1,scaffold_9_mRNA_2638.1	C_unshiu_00444_mRNA_8.1,C_unshiu_00611_mRNA_1.1	-
GF0004242	2	2	0	Hypothetical protein (4)	protein binding [GO:0005515 molecular_function] (2)	Phloem protein 2-like [IPR025886] (4); F-box domain [IPR031810] (2)	scaffold_5_mRNA_907.5,scaffold_5_mRNA_910.1	C_unshiu_00292_mRNA_17.1,C_unshiu_00292_mRNA_20.1	-
GF0004238	2	2	0	Phloem protein 2-B5 (4)	cell wall [GO:0005618 cellular_component] (4); cell wall modification [GO:0042545 biological_process] (4); peptidase inhibitor activity [GO:0030599 molecular_function] (4)	Peptidase, Aspartic-type [IPR03131] (4); Peptidase, Aspartic-type [IPR03130] (4); Peptidase, Aspartic-type [IPR03132] (4); Peptidase, Aspartic-type [IPR03133] (4); Peptidase, Aspartic-type [IPR03134] (4); Peptidase, Aspartic-type [IPR03135] (4)	scaffold_5_mRNA_895.1,scaffold_5_mRNA_903.1	C_unshiu_00292_mRNA_14.1,C_unshiu_00292_mRNA_21.1	-
GF0004204	2	2	0	Putative pectinesterase/pectinesterase inhibitor 38 (2); Pectinesterase 2 (2)	Putative non-LTR retroelement reverse transcriptase (3); RNA-directed DNA polymerase (Reverse transcriptase); Polymucleotidyl transferase; Ribonuclease H fold-like protein (1)	Ribonuclease H-like domain [IPR012337] (4); Reverse transcriptase zinc-binding domain [IPR023690] (4); Reverse transcriptase domain [IPR000477] (3)	scaffold_5_mRNA_4157.1,scaffold_9_mRNA_4158.1	C_unshiu_00053_mRNA_69.1,C_unshiu_00174_mRNA_11.1	-
GF0004099	2	2	0	Hypothetical protein (4)	-	Members in <i>C. clementiae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>	
GF0004058	2	2	0	Hypothetical protein (4)	zinc ion binding [GO:0008270 molecular_function] (1); damaged DNA binding [GO:0003684 molecular_function] (1); nucleus [GO:0005642 cellular_component] (1); DNA repair [GO:0006282 molecular_function] (1); endonuclease activity [GO:0004519 molecular_function] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	Reverse transcriptase zinc-binding domain [IPR023690] (4); Reverse transcriptase domain [IPR000477] (4); Ribonuclease H-like domain [IPR012337] (3); Endonuclease/exonuclease/phosphatase [IPR005135] (3); Zinc knuckle C2CX4HX4C [IPR025836] (1); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_5_mRNA_3813.1,scaffold_5_mRNA_3825.1	C_unshiu_00442_mRNA_2.1,C_unshiu_00442_mRNA_4.1	-
GF0004048	2	2	0	Hypothetical protein (4)	-	-	-	-	-
GF0004017	2	2	0	Hypothetical protein (4)	Putative non-LTR retroelement reverse transcriptase (3); Putative RNA-directed DNA polymerase (1)	Zinc finger, CCHC-type [IPR001878] (1); ERCC1/RAD10/SW110 family [IPR00479] (1); Restriction endonuclease type II-like [IPR011335]	scaffold_5_mRNA_3671.1,scaffold_7_mRNA_1856.1	C_unshiu_00006_mRNA_78.1,C_unshiu_01813_mRNA_1.1	-

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>	
GF0003001	2	2	0	Hypothetical protein (3); Protein FAR1-RELATED SEQUENCE 6 (1)	regulation of transcription, DNA-templated [GO:0006355]; biological process [4]; zinc ion binding [GO:0008270 molecular function] (2)	FHY3/FAR1 family [IPR031052] (4); Zinc finger, SWIM-type [IPR007527] (2); Zinc finger, PMZ-type [IPR006564] (2); FAR1 DNA binding domain [IPR004330] (2)	scaffold_2_mRNA_2561.scaffold_8_m RNA_1152.1	C.unshiu_00211.mRNA_22.i.C.unshiu .00682_mRNA_10.1		
GF0002991	2	2	0	Hypothetical protein (4)			scaffold_2_mRNA_2384.1.scaffold_7_m RNA_1319.1	C.unshiu_00138.mRNA_11.i.C.unshiu .00655_mRNA_6.1		
GF0002985	2	2	0	Hypothetical protein (4)		Retrotransposon gag domain [IPR005162] (1)	scaffold_2_mRNA_2203.1.scaffold_9_m RNA_1680.1	C.unshiu_00508.mRNA_7.i.C.unshiu .00683_mRNA_4.1		
GF0002961	2	2	0	UDP-glycosyltransferase 74E2 (4)	metabolic process [GO:0008152]; biological process [4]; transferase activity; transferring hexosyl groups [GO:0016758 molecular function] (4)	UDP-glucuronyl/UDP-glucosyltransferase [IPR002213] (4)	scaffold_2_mRNA_1959.1.scaffold_2_m RNA_3226.1	C.unshiu_00030.mRNA_34.i.C.unshiu .00141_mRNA_12.1		
GF0002894	2	2	0	Syntaxin 81 (3); Hypothetical protein (1)	vesicle transport protein [GO:0016192]; biological process [4]; membrane [GO:0016620 cellular component] (4); ribosome [GO:0005840 cellular component] (1); structural constituent of ribosome [GO:0003735 molecular function] (1); translation [GO:0004142 biological process] (1); intracellular [GO:0005622 cellular component] (1)	SNARE-complex protein Syntaxin-18, N-terminal [IPR010529] (4); SNARE [IPR010989] (2); SNARE [IPR010989] (2); Transmembrane protein, beta-barrel domain [IPR000001] (1); Ribosomal protein L35A [IPR001780] (1)	scaffold_2_mRNA_1064.1.scaffold_4_m RNA_40.1	C.unshiu_00168.mRNA_31.i.C.unshiu .00235_mRNA_13.1		
GF0002879	2	2	0	Hypothetical protein (4)			scaffold_1_mRNA_760.1.scaffold_1_m RNA_770.1	C.unshiu_00075.mRNA_3.i.C.unshiu .01122_mRNA_2.1		
GF0002851	2	2	0	Hypothetical protein (3); Protein FAR1-RELATED SEQUENCE 11 (1)	regulation of transcription, DNA-templated [GO:0006355]; biological process [4]; zinc ion binding [GO:0008270 molecular function] (2)	FAR1 DNA binding domain [IPR004330] (4); FHY3/FAR1 family [IPR031052] (4); Zinc finger, PMZ-type [IPR006564] (2); Zinc finger, SWIM-type [IPR007527] (2)	scaffold_1_mRNA_355.1.scaffold_7_m RNA_1193.1	C.unshiu_00365.mRNA_19.i.C.unshiu .02037_mRNA_3.1		
GF0002838	2	2	0	Hypothetical protein (2); Putative sugar phosphate/phosphate translocator (2)	strictosidine synthase activity [GO:0016644 molecular function] (4); biosynthetic process [GO:0009058 biological process] (4)	Acyl-CoA N-acetyltransferase [IPR016181] (1); Peptidoglycan biosynthesis/recognition [IPR007434] (1)	scaffold_1_mRNA_3476.1.scaffold_5_m RNA_262.1	C.unshiu_00164.mRNA_28.i.C.unshiu .00449_mRNA_14.1		
GF0002807	2	2	0	Hypothetical protein (4)		beta-bladed beta-propeller, fold-like [IPR011042] (4); Strictosidine synthase converged region [IPR018119] (4); Strictosidine synthase [IPR004414] (4)	scaffold_1_mRNA_292.1.scaffold_1_m RNA_298.1	C.unshiu_01113.mRNA_1.i.C.unshiu .02657_mRNA_3.1		
GF0002780	2	2	0	Hypothetical protein (4)		Transposase-associated domain [IPR029480] (1)	scaffold_1_mRNA_2549.1.scaffold_9_m RNA_1981.1	C.unshiu_00036.mRNA_53.i.C.unshiu .02530_mRNA_1.1		
GF0002758	2	2	0	Hypothetical protein (4)		Gag-peptidopeptide of LTR copolymer [IPR029472] (4); Reverse transcriptase, RNA-dependent DNA polymerase [IPR013103] (1)	scaffold_1_mRNA_1614.1.scaffold_8_m RNA_1191.1	C.unshiu_00010.mRNA_7.i.C.unshiu .02557_mRNA_2.1		
GF0002716	2	2	0	Hypothetical protein (4)			scaffold_1_mRNA_1514.1.scaffold_6_m RNA_572.1	C.unshiu_00075.mRNA_14.i.C.unshiu .01623_mRNA_6.1		
GF0002713	2	2	0	Hypothetical protein (4)	nucleic acid binding [GO:0003676 molecular function] (4); zinc ion binding [GO:0008270 molecular function] (4)	Zinc finger, CCHC-type [IPR001878] (4)	scaffold_1_mRNA_1461.1.scaffold_3_m RNA_1927.1	C.unshiu_00374.mRNA_11.i.C.unshiu .01588_mRNA_16.1		
GF0002711	2	2	0	Hypothetical protein (4)		Ribonuclease H-like domain [IPR002337] (4)	scaffold_1_mRNA_1260.1.scaffold_1_m RNA_513.1	C.unshiu_00024.mRNA_21.i.C.unshiu .00270_mRNA_1.1		
GF0002701	2	2	0	Hypothetical protein (4)		Ribonuclease H domain [IPR002156] (4); Ribonuclease H-like domain [IPR002337] (4); Reverse transcriptase [IPR006960] (4); Reverse transcriptase domain [IPR013103] (1); Reverse transcriptase domain [IPR000477] (2)	scaffold_7_mRNA_1209.1.scaffold_9_m RNA_1975.1	C.unshiu_00290.mRNA_23.i.C.unshiu .00458_mRNA_12.1.C.unshiu_00957 - mRNA_8.1		
GF0002693	2	2	0	Hypothetical protein (4)		Endonuclease/exonuclease/phosphatase [IPR005135] (1)	scaffold_1_mRNA_1106.1.scaffold_9_m RNA_1664.1	C.unshiu_00087.mRNA_11.i.C.unshiu .00308_mRNA_2.1		
GF0002689	2	2	0	Hypothetical protein (4)	nucleic acid binding [GO:0003676 molecular function] (4)	Glycosyltransferase, DND sugar-binding motif [IPR007577] (5); Alpha 1,4-glycosyltransferase domain [IPR007652] (5); Nucleotide/diphosphate sugar transfers [IPR029044] (5)	scaffold_6_mRNA_1763.1.scaffold_6_m RNA_1764.1	C.unshiu_00473.mRNA_22.i.C.unshiu .00474_mRNA_24.i.C.unshiu_00779 - mRNA_12.1		
GF0002386	2	3	0	Lactosylceramide 4-alpha-galactosyltransferase, putative (5)			scaffold_5_mRNA_3565.1.scaffold_7_m RNA_2585.1	C.unshiu_00072.mRNA_25.i.C.unshiu .00618_mRNA_8.i.C.unshiu_01187_m - RNA_3.1		
GF0002298	2	3	0	Hypothetical protein (5)			scaffold_3_mRNA_3478.2.scaffold_3_m RNA_3482.1	C.unshiu_00381.mRNA_10.i.C.unshiu .01092_mRNA_1.i.C.unshiu_02920_m - RNA_1.2		
GF0002047	2	3	0	Hypothetical protein (5)		Leucine-rich repeat domain, L-domain-like [IPR032675] (5); Leucine-rich repeat, typical subtype [IPR000591] (5); Leucine-rich repeat [IPR001611] (5); Reverse transcriptase, RNA-dependent DNA polymerase [IPR013103] (1); Leucine rich repeat [IPR028575] (1)				
GF0001924	2	3	0	Verticillium wilt resistance-like protein (4); Receptor like protein 33 (1)	protein binding [GO:0005515 molecular function] (5)		scaffold_2_mRNA_3837.1.scaffold_2_m RNA_3842.1	C.unshiu_00185.mRNA_30.i.C.unshiu .00185_mRNA_32.i.C.unshiu_00185 - mRNA_34.1		
GF0001870	2	3	0	UDP-glycosyltransferase 74E2 (5)	metabolic process [GO:0008152]; biological process [4]; transferase activity, transferring hexosyl groups [GO:0016758 molecular function] (5)	UDP-glucuronyl/UDP-glucosyltransferase [IPR002213] (5)	scaffold_2_mRNA_1966.1.scaffold_2_m RNA_3228.1	C.unshiu_00303.mRNA_27.i.C.unshiu .00141_mRNA_14.i.C.unshiu_01801 - mRNA_3.1		
GF0001786	2	3	0	Hypothetical protein (2); Transposase (2); Putative zinc finger BED domain-containing protein DAW SLEEPER-like (1); Transposable element Ac (1)	nucleic acid binding [GO:0003676 molecular function] (5); protein directivity activity [GO:0046953 molecular function] (4); DNA binding [GO:0003676 molecular function] (4); metabolic process [GO:0008152]; biological process [2]; hydrolase activity [GO:002629 molecular function] (2); terpene synthase activity [GO:0010333 molecular function] (2); magnesium ion binding [GO:0000287 molecular function] (2)	Ribonuclease H-like domain [IPR002337] (5); Hydrolase domain [IPR000806] (4); hAT-like transposase, RNase-H fold [IPR025525] (3); Zinc finger, BED-type [IPR003656] (3); Terpene synthase, metal-binding domain [IPR005630] (2); Terpene synthase, N-terminal domain [IPR002741] (2); Terpene synthase [IPR008949] (2); alpha toroid [IPR008930] (2); leucine-rich repeat [IPR027417] (1); NB-ARC [IPR000432] (1); Zinc finger C2H2-type [IPR013087] (1)	scaffold_1_mRNA_2390.1.scaffold_9_m RNA_1011.1	C.unshiu_01083.mRNA_2.i.C.unshiu .01083_mRNA_3.i.C.unshiu_01181_mRNA .NA_5.1		
GF0001752	2	3	0	Hypothetical protein (5)			scaffold_1_mRNA_1626.1.scaffold_5_m RNA_588.1	C.unshiu_00667.mRNA_12.i.C.unshiu .0140_mRNA_20.i.C.unshiu_01753 - mRNA_3.1		
GF0001570	2	4	0	Hypothetical protein (3); Ulp1 protease family, carboxy-terminal-domain protein (2); Recombination RecA (1)	ADP binding [GO:0043531 molecular function] (1)	Transposase, Top1/En/Spm-like [IPR00264] (6); Probable transposase, Pta/Espn, plant [IPR00252] (4); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1); NB-ARC [IPR002182] (1)	scaffold_6_mRNA_1077.1.scaffold_8_m RNA_2227.1	C.unshiu_00167.mRNA_2.i.C.unshiu .00228_mRNA_13.i.C.unshiu_00365_mRNA .NA_30.i.C.unshiu_01555_mRNA_1.i		
GF0001561	2	4	0	Hypothetical protein (6)			scaffold_5_mRNA_679.1.scaffold_6_m RNA_66.1	C.unshiu_00558.mRNA_4.i.C.unshiu .02240_mRNA_2.i.C.unshiu_02495_mRNA_2.1		
GF0001535	2	4	0	Hypothetical protein (3); Ulp1 protease family, carboxy-terminal-domain protein (2); Recombination RecA (1)	nucleic acid binding [GO:0003676 molecular function] (6)	Ribonuclease H-like domain [IPR002337] (6); Reverse transcriptase domain [IPR006960] (6); Endonuclease/exonuclease/phosphatase [IPR005135] (2)	scaffold_5_mRNA_3483.1.scaffold_7_m RNA_1291.1	C.unshiu_00100.mRNA_35.i.C.unshiu .00049_mRNA_23.i.C.unshiu_00999_mRNA .NA_10.1.C.unshiu_01929_mRNA_8 .1		
GF0001519	2	4	0	Disease resistance protein (Cv-NBS-LRR class) domain protein (3); NBS-LRR type disease resistance protein (2); Disease resistance protein (1)	ADP binding [GO:0043531 molecular function] (6)	Leucine-rich repeat domain, L-domain-like [IPR032675] (6); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (6); AAA+ ATPase domain [IPR003595] (6); Winged helix-turn-helix-DNA-binding domain [IPR011991] (2)	scaffold_5_mRNA_2795.1.scaffold_5_m RNA_2837.1	C.unshiu_00263.mRNA_25.i.C.unshiu .01408_mRNA_2.i.C.unshiu_01783_mRNA .NA_5.1		
GF0001463	2	4	0	Hypothetical protein (6)			scaffold_4_mRNA_2630.1.scaffold_8_m RNA_2098.1	C.unshiu_00111.mRNA_11.i.C.unshiu .00111_mRNA_18.i.C.unshiu_01364_mRNA_4 .1		
GF0001454	2	4	0	Hypothetical protein (6)	protein binding [GO:0005515 molecular function] (1)	Leucine-rich repeat domain, L-domain-like [IPR032675] (1); Leucine-rich repeat, typical subtype [IPR000591] (1); Leucine-rich repeat-containing N-terminal, plant-type [IPR001321] (1); Leucine-rich repeat [IPR001611] (1)	scaffold_4_mRNA_1046.1.scaffold_4_m RNA_988.1	C.unshiu_00083.mRNA_29.i.C.unshiu .00104_mRNA_23.i.C.unshiu_00387_mRNA .NA_5.1		
GF0001431	2	4	0	Adipocyte plasma membrane-associated protein (4); Putative strictosidine synthase (2)	strictosidine synthase activity [GO:0016644 molecular function] (6); biosynthetic process [GO:0009058 biological process] (6)	Strictosidine synthase, conserved region [IPR011919] (6); Strictosidine synthase [IPR006441] (6); Side-bladed beta-propeller, ToB-like [IPR011042] (6)	scaffold_4_mRNA_1278.1	C.unshiu_00777.mRNA_8.i.C.unshiu .00809_mRNA_5.i.C.unshiu_00932_mRNA .NA_1.i.C.unshiu_02303_mRNA_6.1		
GF0001283	2	4	0	Hypothetical protein (6)		Transposase, MuDR, plant [IPR004332] (6); MULE transposase domain [IPR01829] (3)	scaffold_2_mRNA_511.1.scaffold_5_m RNA_355.1	C.unshiu_00015.mRNA_53.i.C.unshiu .00016_mRNA_55.i.C.unshiu_00062_mRNA_25.i.C.unshiu_00147_mRNA_6 .1		
GF0001280	2	4	0	Hypothetical protein (6)			scaffold_2_mRNA_473.1.scaffold_8_m RNA_1309.1	C.unshiu_00056.mRNA_17.i.C.unshiu_00448_mRNA_1.i .1		
GF0001272	2	4	0	Hypothetical protein (6)		Leucine-rich repeat domain, L-domain-like [IPR032675] (4)	scaffold_2_mRNA_4295.1.scaffold_2_m RNA_4417.1	C.unshiu_00015.mRNA_76.i.C.unshiu .00151_mRNA_7.i.C.unshiu_00667_mRNA .NA_7.i.C.unshiu_01889_mRNA_4.i		

ID	Num in <i>C. clementinae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>	
GF0001231	2	4	0	Hypothetical protein (6)			scaffold_2_mRNA_2444.1,scaffold_9_m_00174,mRNA_36.1,C.unshiu_01765_RNA_2230.1	C.unshiu_00128_mRNA_15.1,C.unshiu_00174_mRNA_31,C.unshiu_0291,mRNA_2_1	-	
GF0001157	2	4	0	Hypothetical protein (6)			scaffold_1_mRNA_2521.1,scaffold_8_m_C.unshiu_00354,mRNA_19.1,C.unshiu_00702,mRNA_30.1,C.unshiu_02577_m_002294.1	C.unshiu_00354_mRNA_19.1,C.unshiu_00702_mRNA_30.1,C.unshiu_02577_m_11	-	
GF0001146	2	4	0	Hypothetical protein (6)			scaffold_1_mRNA_2214.1,scaffold_1_m_00247,mRNA_31.1,C.unshiu_00888_RNA_782.1	C.unshiu_00247_mRNA_29.1,C.unshiu_00247_mRNA_31.1,C.unshiu_01591,mRNA_10_1	-	
GF0000971	2	5	0	Retrotransposon gag protein (7)	Retrotransposon gag domain [IPR005162] (7)		scaffold_5_mRNA_1502.1,scaffold_6_m_00228,mRNA_45.1,C.unshiu_00274_m_RNA_858.1	C.unshiu_00187_mRNA_21.1,C.unshiu_00228_mRNA_45.1,C.unshiu_00274_m_1	-	
GF0000942	2	5	0	Hypothetical protein (7)			scaffold_3_mRNA_6280.1,scaffold_5_m_C.unshiu_00051,mRNA_15.1,C.unshiu_00399_RNA_5232.1	C.unshiu_00051_mRNA_15.1,C.unshiu_00399_mRNA_22.1,C.unshiu_01212,mRNA_6_1	-	
GF0000835	2	5	0	Hypothetical protein (7)			scaffold_2_mRNA_1892.1,scaffold_6_m_00470,mRNA_25.1,C.unshiu_01424_mRNA_3_00470_RNA_472.1	C.unshiu_00104_mRNA_17.1,C.unshiu_00470_mRNA_25.1,C.unshiu_01424_mRNA_3_1,C.unshiu_0233_mRNA_3_1	-	
GF0000748	2	6	0	Hypothetical protein (4); Polyprotein (2); RNA-directed DNA polymerase (Reverse transcriptase); Zinc finger (CCHC-type); Peptidase, aspartic-type; Retroposon gag protein (1); Putative polyproteins (Aspartic protease, reverse transcriptase, ribonuclease H) (1) [GO:0006508 biological_process](5)	Zinc_finger,_CCHC-type [IPR001877] (7); Peptidase_A2A,_retrovirus_catalytic [IPR001995] (5); Reverse transcriptase domain [IPR00477] (5); Retroposon gag protein [IPR018061] (5); Aspartic_peptidase domain [IPR021109] (3)			C.unshiu_00074_mRNA_66.1,C.unshiu_00074_mRNA_68.1,C.unshiu_00138_mRNA_51.1,C.unshiu_00145,mRNA_1_3.1,C.unshiu_00479_mRNA_5.1,C.unshiu_01893,mRNA_8.1	C.unshiu_00350_mRNA_3.1,C.unshiu_00350_mRNA_32.1,C.unshiu_00408_mRNA_11_00408_RNA_1570.1	-
GF0000731	2	6	0	Hypothetical protein (8)				C.unshiu_00014_mRNA_116.1,C.unshiu_u_00029,mRNA_87.1,C.unshiu_00055_mRNA_48.1,C.unshiu_00271,mRNA_4_4.1,C.unshiu_00984,mRNA_13.1,unshiu_01350,mRNA_3.1	C.unshiu_00014_mRNA_116.1,C.unshiu_u_00029,mRNA_87.1,C.unshiu_00055_mRNA_48.1,C.unshiu_00271,mRNA_4_4.1,C.unshiu_00984,mRNA_13.1,unshiu_01350,mRNA_3.1	-
GF0000623	2	6	0	Hypothetical protein (8)				C.unshiu_00085_mRNA_8.1,C.unshiu_00085_mRNA_10.1,C.unshiu_01374,mRNA_8.1,C.unshiu_02149,mRNA_3.1,C.unshiu_02763,mRNA_2_1	C.unshiu_00085_mRNA_8.1,C.unshiu_00085_mRNA_10.1,C.unshiu_01374,mRNA_8.1,C.unshiu_02149,mRNA_3.1,C.unshiu_02763,mRNA_2_1	-
GF0000566	2	7	0	Hypothetical protein (7); Specific tissue protein (1), Putative protein (1); Pea shoot-specific protein (1)	Organ specific protein [IPR024489] (9)		scaffold_8_mRNA_741.1,scaffold_8_mRNA_756.1	C.unshiu_00161,mRNA_30.1	-	
GF0024944	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_992.1	C.unshiu_00161,mRNA_34.1	-	
GF0024943	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_990.1		-	
GF0024941	1	1	0	LRR receptor-like kinase family protein (2)	protein binding [GO:0005515 molecular_function] (2)		scaffold_9_mRNA_987.1	C.unshiu_00307_mRNA_6.1	-	
GF0024940	1	1	0	Hypothetical protein (2)	serine-type endopeptidase activity [GO:0004252 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)		scaffold_9_mRNA_986.1	C.unshiu_00287_mRNA_19.1	-	
GF0024939	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2)		scaffold_9_mRNA_985.1	C.unshiu_00307_mRNA_7.1	-	
GF0024937	1	1	0	Pentapeptide (PPR) repeat protein (2)	protein binding [GO:0005515 molecular_function] (2)		scaffold_9_mRNA_980.1	C.unshiu_00307_mRNA_12.1	-	
GF0024936	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_979.1	C.unshiu_00307_mRNA_13.1	-	
GF0024935	1	1	0	Zinc_finger protein CONSTANS-LIKE 4 (2)	protein binding [GO:0005515 molecular_function] (2); membrane [GO:0016620 cellular_component] (2); transport [GO:0066843 biological_process] (2); nucleotide binding [GO:0000166 molecular_function] (1)		scaffold_9_mRNA_972.1	C.unshiu_00307_mRNA_21.1	-	
GF0024934	1	1	0	Peptide transporter PTR3-A (2)	Protein-dependent oligopeptide transporter family [IPR00109] (2); Major facilitator superfamily domain [IPR020846] (2)		scaffold_9_mRNA_957.1	C.unshiu_01048,mRNA_5.1	-	
GF0024933	1	1	0	Hypothetical protein (2)	S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (1)		scaffold_9_mRNA_950.1	C.unshiu_01048,mRNA_11.1	-	
GF0024932	1	1	0	Hypothetical protein (2)	Leucine-rich repeat domain, L-domain-like [IPR032679] (2); Leucine-rich repeat-containing domain [IPR01611] (2); Leucine-rich repeat-containing domain, plant-related [IPR013210] (2)		scaffold_9_mRNA_947.1	C.unshiu_00959,mRNA_12.1	-	
GF0024931	1	1	0	Hypothetical protein (2)	NTF2-like domain [IPR032710] (2); Nuclear transport factor 2 [IPR026212] (2); Nuclear transport factor 2, eukaryote [IPR018222] (2); RNA recognition motif (2); Nucleotide-binding alpha-beta plait domain [IPR003504] (2); Nucleotide-binding alpha-beta plait domain [IPR012677] (1)			scaffold_9_mRNA_944.1	C.unshiu_00146,mRNA_1.1	-
GF0024930	1	1	0	Hypothetical protein (2)	Penetratin-peptidipeptide repeat [IPR022885] (2); Tetrapeptidopeptide-like helical domain [IPR01990] (2)		scaffold_9_mRNA_937.1	C.unshiu_00146,mRNA_8.1	-	
GF0024929	1	1	0	Cyclopropane-fatty-acyl-phospholipid synthase (1); Hypothetical protein (1)	ATPase activity [GO:0016887 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2); exoribonuclease activity [GO:00016491 molecular_function] (1); oxidation-reduction process [GO:0005514 biological_process] (1)		scaffold_9_mRNA_936.1	C.unshiu_00146,mRNA_7.1	-	
GF0024928	1	1	0	Hypothetical protein (2)	protein peptidyl-prolyl isomerization [GO:000413 biological_process] (2); protein folding [GO:0006457 biological_process] (2); nucleic acid binding [GO:0006767 molecular_function] (2)		scaffold_9_mRNA_934.1	C.unshiu_00146,mRNA_11.1	-	
GF0024926	1	1	0	Hypothetical protein (2)	RNA recognition motif domain [IPR000412] (2); Cyclophilin-like domain [IPR000412] (2); Cys-peptidyl-prolyl-cis-trans isomerase domain [IPR002130] (2); Ferritin-related domain [IPR012347] (1); Nucleotide-binding domain [IPR023753] (1)		scaffold_9_mRNA_93.1	C.unshiu_00007,mRNA_94.1	-	
GF0024924	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_913.1	C.unshiu_00146,mRNA_32.1	-			
GF0024923	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_907.1	C.unshiu_00146,mRNA_37.1	-			
GF0024922	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_902.1	C.unshiu_01125,mRNA_1.1	-			
GF0024920	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_888.1	C.unshiu_00329,mRNA_9.1	-			
GF0024918	1	1	0	60S ribosomal protein L36 (2)	translation [GO:0006412 biological_process] (2); intracellular [GO:0005622 cellular_component] (2); structural constituent of ribosome [GO:0003755 molecular_function] (2); ribosomal [GO:0005840 cellular_component] (2)		scaffold_9_mRNA_879.1	C.unshiu_00396,mRNA_1.1	-	
GF0024917	1	1	0	Hypothetical protein (2)	ubiquitin protein ligase binding [GO:0031625 molecular_function] (2); ubiquitin-dependent protein catalytic process [GO:0006511 biological_process] (2)		scaffold_9_mRNA_875.1	C.unshiu_00396,mRNA_4.1	-	
GF0024916	1	1	0	Hypothetical protein (2)	Cullin_N-terminal [IPR001373] (2); Cullin-repeat-containing domain [IPR016159] (2)		scaffold_9_mRNA_872.1	C.unshiu_00396,mRNA_7.1	-	
GF0024914	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_87.1	C.unshiu_00007,mRNA_99.1	-			
GF0024913	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_86.1	C.unshiu_00396,mRNA_12.1	-			
GF0024912	1	1	0	Hypothetical protein (2)	Splicing factor 3B subunit 5/RDS3 complex subunit 10 [IPR009846] (2); RmC-like cupin domain [IPR011051] (2); RmC-like jelly (2); S-actin storage protein, conserved site [IPR022379] (2); Cupin 1 [IPR006045] (2); S-actin storage protein, plant [IPR06044] (2)		scaffold_9_mRNA_854.1	C.unshiu_00057,mRNA_56.1	-	
GF0024910	1	1	0	0 11S globulin (2)	nutrient reservoir activity [GO:0045735 molecular_function] (2)		scaffold_9_mRNA_845.2	C.unshiu_00057,mRNA_47.1	-	
GF0024908	1	1	0	Hypothetical protein (2)	Domain of unknown function DUF4283 [IPR025558] (2)		scaffold_9_mRNA_824.1	C.unshiu_00164,mRNA_15.1	-	
GF0024907	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_822.1	C.unshiu_00164,mRNA_16.1	-			
GF0024906	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_821.1	C.unshiu_00164,mRNA_17.1	-			
GF0024905	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_819.1	C.unshiu_00164,mRNA_19.1	-			
GF0024904	1	1	0	Repetitive proline-rich cell wall protein 1 (2)	scaffold_9_mRNA_818.1	C.unshiu_00164,mRNA_20.1	-			
GF0024903	1	1	0	Putative retroelement polypeptide (2)	scaffold_9_mRNA_815.1	C.unshiu_00164,mRNA_22.1	-			
GF0024902	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (2); transcription, DNA-templated [GO:0006355 biological_process] (2); transcription factor activity, sequence-specific DNA binding [GO:003700 molecular_function] (2)		scaffold_9_mRNA_812.1	C.unshiu_00164,mRNA_25.1	-	
GF0024901	1	1	0	Ethylene-responsive transcription factor ERF998 (2)	AP2/ERF domain [IPR001471] (2); DNA-binding domain [IPR016177] (2)		scaffold_9_mRNA_810.1	C.unshiu_00164,mRNA_27.1	-	
GF0024898	1	1	0	Hypothetical protein (2)	Endonuclease/exonuclease/phosphatase [IPR005135] (1); Zinc knuckle CX2CX4H14C [IPR028530] (1)		scaffold_9_mRNA_796.1	C.unshiu_01106,mRNA_8.1	-	
GF0024897	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_792.1	C.unshiu_01106,mRNA_4.1	-			

ID	Num in <i>C. clementiae</i>	Num in <i>C. umshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliata</i>	
GF0024896	1	1	0	0 1-aminoacylcopropane-1-carboxylate oxidase like 12 (2)	oxidoreductase activity [GO:0016491 molecular function] (2); oxidation-reduction process [GO:0055114 biological process] (2)	Isopeptidase N synthase-like [IPR027443] (2); Non-heme dioxygenase N-terminal domain [IPR026992] (2); scaffold_9_mRNA_787.1 Oxoglutarate/iron-dependent dioxygenase [IPR005123] (2)	C_umshiu_00386_mRNA_3.1	-	-	
GF0024895	1	1	0	0 Hypothetical protein (2)	DNA binding [GO:0003677 molecular function] (2); nucleic acid binding [GO:0005676 molecular function] (1)	Zinc finger, BED-type [IPR000556] (2); Zinc finger C2H2-type [IPR013087] (1)	C_umshiu_00386_mRNA_4.1	-	-	
GF0024894	1	1	0	0 Hypothetical protein (2)	-	Pentatricopeptide repeat [IPR02885] (2) scaffold_9_mRNA_773.1 C-terminal domain-1 [IPR00768] (2); Cwf19-like protein, C- terminal domain-1 [IPR006767] (2)	C_umshiu_00410_mRNA_2.1	-	-	
GF0024893	1	1	0	0 Hypothetical protein (2)	-	terminal domain-2 [IPR006767] (2)	scaffold_9_mRNA_759.1	C_umshiu_00032_mRNA_67.1	-	
GF0024891	1	1	0	0 Hypothetical protein (2)	cellulose biosynthetic process [GO:003244 biological process] (1); membrane [GO:0016020 cellular component] (1); cellulose synthase (LDP-forming) activity [GO:0016760 molecular function] (1)	Protein of unknown function DUF247, plant [IPR004158] (2); Cellulose synthase [IPR005150] (1)	scaffold_9_mRNA_751.1	C_umshiu_00032_mRNA_57.1	-	
GF0024889	1	1	0	0 Hypothetical protein (2)	STAR-related lipid transfer protein 7, mitochondrial (2)	START-like domain [IPR003303] (2); START domain [IPR002913] (2)	scaffold_9_mRNA_734.1	C_umshiu_00445_mRNA_14.1	-	
GF0024887	1	1	0	0 STAR-related lipid transfer protein 7, mitochondrial (2)	ATP binding [GO:0005524 molecular function] (2); kinase activity [GO:0016301 molecular function] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Zeta toxin domain [IPR010488] (2)	scaffold_9_mRNA_731.1	C_umshiu_00445_mRNA_12.1	-	
GF0024886	1	1	0	0 P-loop nucleoside triphosphate hydrolase superfamily protein (2)	nucleosome [GO:0000788 cellular component] (2); nucleosome assembly [GO:0000789 cellular component] (2); nucleolus [GO:0005634 cellular component] (2); ribosome [GO:0005840 cellular component] (2); RNA binding [GO:000723 molecular function] (2); small ribosomal subunit [GO:0015935 cellular component] (2); structural constituent of ribosome [GO:0003735 molecular function] (2); translation [GO:0006412 biological process] (2)	Histone H5 [IPR000519] (2); Linker histone H1/H5, domain H1S [IPR00518] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (2)	scaffold_9_mRNA_730.1	C_umshiu_00445_mRNA_11.1	-	
GF0024885	1	1	0	0 Histone H1 (2)	protein binding [GO:0005151 molecular function] (2); structural constituent of ribosome [GO:0003735 molecular function] (2); translation [GO:0006412 biological process] (2)	Ribosomal protein S19-conserved site [IPR020934] (2); Ribosomal protein S19, superfamily [IPR023575] (2); Ribosomal protein S19/S15e [IPR005713] (2); Ribosomal protein S19/S15 [IPR002222] (2)	scaffold_9_mRNA_729.2	C_umshiu_00445_mRNA_10.2	-	
GF0024884	1	1	0	0 40S ribosomal protein S15 (2)	protein binding [GO:0005151 molecular function] (2); structural constituent of ribosome [GO:0003735 molecular function] (2); translation [GO:0006412 biological process] (2)	PGG domain [IPR026961] (2); Ankyrin repeat-containing domain [IPR020683] (2); Ankyrin repeat [IPR002110] (2); Protein accelerated cell death 6 [IPR032846] (1)	scaffold_9_mRNA_722.1	C_umshiu_00445_mRNA_3.1	-	
GF0024883	1	1	0	0 Ankyrin repeat family protein, putative (2)	biological process [GO:00331347 molecular function] (1); defense response [GO:00331347 biological process] (1)	Ankyrin repeat [IPR02110] (2); Ankyrin repeat-containing domain [IPR020683] (2); Ankyrin repeat [IPR002110] (2); Protein accelerated cell death 6 [IPR032846] (1)	scaffold_9_mRNA_722.1	C_umshiu_00445_mRNA_3.1	-	
GF0024882	1	1	0	0 Ankyrin repeat family protein, putative (2)	protein binding [GO:0005151 molecular function] (2); regulation of salicylic acid mediated signaling pathway [GO:2000031 biological process] (1); regulation of salicylic acid-mediated signaling pathway [GO:00031347 biological process] (1)	Ankyrin repeat [IPR02110] (2); PGG domain [IPR020901] (2); Ankyrin repeat-containing domain [IPR020683] (2); Protein accelerated cell death 6 [IPR032846] (1)	scaffold_9_mRNA_711.1	C_umshiu_00436_mRNA_30.1	-	
GF0024881	1	1	0	0 Hypothetical protein (2)	protein binding [GO:0005151 molecular function] (2); response to oxidative stress [GO:0006412 biological process] (1); chlorophyll catabolism [GO:0005057 molecular function] (1); integral component of membrane [GO:001621 cellular component] (1); cellular response to salicylic acid stimulus [GO:0071446 biological process] (1)	Ankyrin repeat [IPR02110] (2); Anklyn repeat-containing domain [IPR020683] (2)	scaffold_9_mRNA_710.1	C_umshiu_00436_mRNA_28.1	-	
GF0024878	1	1	0	0 NAD(P)H dehydrogenase 18 (2)	ATP binding [GO:0005524 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (2); protein kinase activity [GO:0004672 molecular function] (2)	Photosynthetic NDH subunit of complexB 5, chlorophyll catabolism [IPR034569] (1)	scaffold_9_mRNA_695.1	C_umshiu_00436_mRNA_12.1	-	
GF0024877	1	1	0	0 Hypothetical protein (2)	-	EF-hand 1, calcium-binding site [IPR018247] (2); EF-hand domain [IPR020248] (2); EF-hand domain pair [IPR011992] (2)	scaffold_9_mRNA_683.1	C_umshiu_00436_mRNA_3.1	-	
GF0024874	1	1	0	0 Calmodulin (2)	calcium ion binding [GO:0005509 molecular function] (2)	EF-hand 1, calcium-binding site [IPR018247] (2); EF-hand domain [IPR020248] (2); EF-hand domain pair [IPR011992] (2)	scaffold_9_mRNA_667.1	C_umshiu_00298_mRNA_14.1	-	
GF0024873	1	1	0	0 1,2-dihydroxy-3-keto-5-methylisophenene dioxygenase 4 (1); 0 1,2-dihydroxy-3-keto-5-methylisophenene dioxygenase 2 (1)	acredoxinase dioxygenase [iron(II)-requiring] activity [GO:0010309 molecular function] (1); L-methionine sulfoxide reductase activity [GO:0010309 molecular function] (1); 1,2-dihydroxy-3-keto-5-methylisophenene dioxygenase 4 (1); 1,2-dihydroxy-3-keto-5-methylisophenene dioxygenase 2 (1)	acredoxinase dioxygenase [iron(II)-requiring] activity [GO:0010309 molecular function] (1); L-methionine sulfoxide reductase activity [GO:0010309 molecular function] (1); 1,2-dihydroxy-3-keto-5-methylisophenene dioxygenase 4 (1); 1,2-dihydroxy-3-keto-5-methylisophenene dioxygenase 2 (1)	Rmc-like jelly roll fold [IPR014710] (1); Rmc-like cupin domain [IPR014710] (2); Rmc-like domain [IPR014710] (2); Rmc-like domain [IPR014710] (2); Rmc-like domain [IPR014710] (2)	scaffold_9_mRNA_644.2	C_umshiu_00101_mRNA_29.1	-
GF0024872	1	1	0	0 Hypothetical protein (2)	-	Leucine-rich repeat domain, I, domain-like [IPR023879] (2); Leucine-rich repeat [IPR01611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2)	scaffold_9_mRNA_639.1	C_umshiu_00101_mRNA_34.1	-	
GF0024871	1	1	0	0 Leucine-rich repeat receptor-like protein kinase family (2)	protein binding [GO:0005151 molecular function] (2)	Leucine-rich repeat domain, I, domain-like [IPR023879] (2); Leucine-rich repeat [IPR01611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2)	scaffold_9_mRNA_627.1	C_umshiu_00101_mRNA_53.1	-	
GF0024870	1	1	0	0 Hypothetical protein (2)	ATP binding [GO:0005524 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (2)	Protein kinase-like domain [IPR010099] (2); Protein kinase domain [IPR000719] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_9_mRNA_626.1	C_umshiu_00085_mRNA_51.1	-	
GF0024869	1	1	0	0 Hypothetical protein (2)	kinase activity [GO:0004672 molecular function] (2)	Protein kinase-like domain [IPR010099] (2); Protein kinase domain [IPR000719] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_9_mRNA_614.1	C_umshiu_00369_mRNA_7.1	-	
GF0024868	1	1	0	0 Hypothetical protein (2)	-	Ribosomal protein L19/L19e, domain 3 [IPR015629] (2); Ribosomal protein L19/L19e, domain 2 [IPR010182] (2); Ribosomal protein L19/L19e, domain 1, converted site [IPR026383] (2); Ribosomal protein L19/L19e, domain 2 [IPR015973] (1); Ribosomal protein L19/L19e, domain 1 [IPR000196] (1); Ribosomal protein L19/L19e, domain [IPR000196] (1); Ribosomal protein L19/L19, eukaryotic [IPR033953] (1)	scaffold_9_mRNA_605.1	C_umshiu_00369_mRNA_17.1	-	
GF0024867	1	1	0	0 Ribosomal protein L19 (2)	transferrin [GO:0006412 biological process] (2); antifungal [GO:0005622 cellular component] (2); structural constituent of ribosome [GO:0003735 molecular function] (2); ribosome [GO:0005840 cellular component] (2); cytosolic large ribosomal subunit [GO:0002625 cellular component] (1)	Ribosomal protein L19/L19e, domain 3 [IPR015629] (2); Ribosomal protein L19/L19e, domain 2 [IPR010182] (2); Ribosomal protein L19/L19e, domain 1, converted site [IPR026383] (2); Ribosomal protein L19/L19e, domain 2 [IPR015973] (1); Ribosomal protein L19/L19e, domain [IPR000196] (1); Ribosomal protein L19/L19e, domain [IPR000196] (1); Ribosomal protein L19/L19, eukaryotic [IPR033953] (1)	scaffold_9_mRNA_602.1	C_umshiu_00369_mRNA_20.1	-	
GF0024866	1	1	0	0 Hypothetical protein (2)	-	Cysteine synthase [IPR05856] (2); Cysteine synthase/cystathione beta-synthase, pyridoxal phosphate attachment site [IPR000756] (2); Thiamine synthase beta, thiamine pyrophosphate-dependent enzyme [IPR000126] (2); Cysteine synthase CysK [IPR005859] (2)	scaffold_9_mRNA_597.1	C_umshiu_00254_mRNA_42.1	-	
GF0024864	1	1	0	0 Cysteine synthase (2)	cysteine synthase process from serine [GO:0006535 biological process] (2); cysteine synthase activity [GO:000124 molecular function] (2)	Cysteine synthase [IPR05856] (2); Cysteine synthase/cystathione beta-synthase, pyridoxal phosphate attachment site [IPR000756] (2); Thiamine synthase beta, thiamine pyrophosphate-dependent enzyme [IPR000126] (2); Cysteine synthase CysK [IPR005859] (2)	scaffold_9_mRNA_575.1	C_umshiu_00254_mRNA_24.1	-	
GF0024861	1	1	0	0 Amine oxidase (flavin-containing) (2)	primary amine oxidase activity [GO:0008131 molecular function] (2); copper ion binding [GO:000507 molecular function] (2); primary amine oxidase activity [GO:0008131 molecular function] (2)	Copper amine oxidase, C-terminal [IPR015798] (2); Copper amine oxidase, N-terminal [IPR016182] (2); Copper amine oxidase, C-terminal [IPR015802] (2); Copper amine oxidase, N-terminal [IPR015802] (2); Copper amine oxidase, C-terminal [IPR000269] (2)	scaffold_9_mRNA_554.1	C_umshiu_00254_mRNA_4.1	-	
GF0024860	1	1	0	0 Amine oxidase (flavin-containing) (2)	biological process [GO:0015114 molecular function] (2); quinone binding [GO:0048038 molecular function] (2); amine metabolic process [GO:0009308 biological process] (2); quinone binding [GO:0048038 molecular function] (2); amine metabolic process [GO:0009308 biological process] (2); primary amine oxidase activity [GO:0008131 molecular function] (2)	Copper amine oxidase, C-terminal [IPR015798] (2); Copper amine oxidase, N-terminal [IPR016182] (2); Copper amine oxidase, C-terminal [IPR015802] (2); Copper amine oxidase, N-terminal [IPR015802] (2); Copper amine oxidase, C-terminal [IPR000269] (2)	scaffold_9_mRNA_553.1	C_umshiu_00254_mRNA_3.1	-	
GF0024859	1	1	0	0 G-type lectin S-receptor-like 0 serine/threonine-protein kinase RLK1 (1); Hypothetical protein (1)	protein phosphorylation [GO:0006468 biological process] (2); protein kinase activity [GO:0004672 molecular function] (2); ATP binding [GO:0005524 molecular function] (2)	Protein kinase-like domain [IPR010099] (2); Protein kinase domain [IPR000719] (2); scaffold_9_mRNA_548.1	C_umshiu_00126_mRNA_56.1	-	-	
GF0024858	1	1	0	0 Amine oxidase (flavin-containing) (2)	primary amine oxidase activity [GO:0008131 molecular function] (2); amine metabolic process [GO:0009308 biological process] (2); quinone binding [GO:0048038 molecular function] (2); amine metabolic process [GO:0009308 biological process] (2); primary amine oxidase activity [GO:0008131 molecular function] (2)	Copper amine oxidase, C-terminal [IPR015798] (2); Copper amine oxidase, N-terminal [IPR016182] (2); Copper amine oxidase, C-terminal [IPR015802] (2); Copper amine oxidase, N-terminal [IPR015802] (2); Copper amine oxidase, C-terminal [IPR015798] (2)	scaffold_9_mRNA_523.1	C_umshiu_00051_mRNA_51.1	-	
GF0024855	1	1	0	0 Amine oxidase (flavin-containing) (2)	ribonuclease activity [GO:0004540 molecular function] (2); RNA processing [GO:0008033 biological process] (1)	Ribonuclease P/MRP protein subunit [IPR002759] (1)	scaffold_9_mRNA_522.1	C_umshiu_00051_mRNA_50.1	-	
GF0024854	1	1	0	0 Odontogenic ameloblast-associated (2)	-	scaffold_9_mRNA_500.1	C_umshiu_00051_mRNA_32.1	-	-	

ID	Num in <i>C. clementinae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0024853	1	1	0	NEDD8-activating enzyme E1 catalytic subunit (2)	NEDD8-activating enzyme activity [GO:0019781 molecular function] (2); small protein activating enzyme activity [GO:0008641 molecular function] (2); ATP binding [GO:0005524 molecular function] (2); acyl-amino acid ligand activity [GO:0041881 molecular function] (2); protein neddylation [GO:0045116 biological process] (2)	THIF-type NAD-FAD binding fold [IPR01629] (2); E2 ubiquitin-activating enzyme E1 [IPR01629] (2); Ubiquitin-activating enzyme E1, Cys active site [IPR033127] (2); NAD(P)-binding domain [IPR016040] (1); Ubiquitin activating enzyme, alpha domain [IPR023318] (1)	scaffold_9_mRNA_499.2	C_unshiu_00051_mRNA_31.2	-
GF0024852	1	1	0	Basic 7S globulin (2)	proteolysis [GO:0006508 biological process] (2); aspartic-type endopeptidase activity [GO:0004190 molecular function] (2)	Peptidase family A1 domain [IPR033121] (2); Aspartic peptidase domain [IPR021109] (2); Xylanase inhibitor, C-terminal [IPR032681] (2); Xylanase inhibitor, C-terminal [IPR032799] (2); Aspartic peptidase A1 family [IPR001461] (2); Xylanase inhibitor I-like [IPR033868] (1)	scaffold_9_mRNA_493.1	C_unshiu_00051_mRNA_26.1	-
GF0024850	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508 biological process] (2); aspartic-type endopeptidase activity [GO:0004190 molecular function] (2)	Aspartic peptidase domain [IPR021109] (2); Aspartic peptidase domain [IPR033121] (2); Aspartic peptidase A1 family [IPR001461] (2); Xylanase inhibitor, C-terminal [IPR032799] (2); Xylanase inhibitor, N-terminal [IPR032681] (2); Xylanase inhibitor I-like [IPR033868] (1)	scaffold_9_mRNA_488.1	C_unshiu_00051_mRNA_23.1	-
GF0024849	1	1	0	Basic 7S globulin (2)	metal ion transport [GO:0000001 biological process] (2); metal ion binding [GO:0046872 molecular function] (2)	Heavy metal-associated domain, HMA [IPR006121] (2)	scaffold_9_mRNA_476.1	C_unshiu_00097_mRNA_16.1	-
GF0024848	1	1	0	Hypothetical protein (2)	oxidation-reduction process [GO:005114 biological process] (2); deoxyribonucleotide diphosphate metabolic process [GO:0009186 biological process] (2)	Ferritin-like superfamily [IPR009078] (2); Ribonucleotide reductase small subunit, active site [IPR030475] (2); Ribonucleotide reductase small subunit [IPR033069] (2); Ribonucleotide reductase-related [IPR012348] (1); Ribonucleotide reductase small subunit [IPR000358] (1); Ribonucleotide reductase small subfamily [IPR000358] (1)	scaffold_9_mRNA_460.1	C_unshiu_00097_mRNA_30.1	-
GF0024846	1	1	0	Ribonucleoside-diphosphate reductase small chain (2)	Dienelactone hydrolase family, putative [GO:0016787 molecular function] (2)	Alpha/Beta hydrolase fold [IPR029058] (2); Dienelactone hydrolase [IPR002925] (1)	scaffold_9_mRNA_454.1	C_unshiu_00097_mRNA_37.1	-
GF0024844	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	EF-hand, calcium binding motif-containing protein (2)	scaffold_9_mRNA_453.1	C_unshiu_00097_mRNA_38.1	-
GF0024843	1	1	0	Hypothetical protein (2)	calcium ion binding [GO:0005509 molecular function] (2)	EF-hand domain [IPR002048] (2); EF-hand domain [IPR018247] (2); EF-hand domain pair [IPR011992] (2)	scaffold_9_mRNA_450.1	C_unshiu_01541_mRNA_2.1	-
GF0024840	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	Bax inhibitor 1-related [IPR006214] (1)	scaffold_9_mRNA_434.1	C_unshiu_00040_mRNA_71.1	-
GF0024839	1	1	0	Hypothetical protein (2)	Glutamate binding protein (1); Hypothetical protein (1); Hypothetical protein (1)	scaffold_9_mRNA_422.1	C_unshiu_00040_mRNA_57.1	-	
GF0024838	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	Bax inhibitor 1-related [IPR006214] (1)	scaffold_9_mRNA_410.1	C_unshiu_00366_mRNA_24.1	-
GF0024837	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	Nucleotide-diphosphoester transferase [IPR020444] (2); Dom30, unknown [IPR012054] (2)	scaffold_9_mRNA_408.1	C_unshiu_00366_mRNA_26.1	-
GF0024836	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	Penicillipeptide repeat [IPR020285] (2); Tetrapeptide-like helical domain [IPR011990] (1)	scaffold_9_mRNA_401.1	C_unshiu_00366_mRNA_32.1	-
GF0024835	1	1	0	Penicillipeptide repeat-containing protein, chloroplastic (2)	protein binding [GO:0005515 molecular function] (1)	Signal transduction histidine kinase, phosphotransfer (Hpt) domain [IPR000166 biological process] (2)	scaffold_9_mRNA_401.1	C_unshiu_00097_mRNA_143.1	-
GF0024831	1	1	0	Histidine-containing phosphotransfer protein 4 (2)	ATP binding [GO:0005524 molecular function] (2); protein folding [GO:0006457 biological process] (2)	Chaperonin Cpn60/TCP-1 family [IPR002423] (2); GroEL-like equatorial domain [IPR027413] (2); unfolded protein polypeptide 1 (TCP-1) [IPR017998] (2); Chaperonin TCP-1, conserved site [IPR02194] (2)	scaffold_9_mRNA_384.0	C_unshiu_00097_mRNA_118.1	-
GF0024830	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	Major facilitator superfamily domain [IPR020846] (2)	scaffold_9_mRNA_383.7	C_unshiu_00003_mRNA_115.1	-
GF0024829	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	Transcription factor CBF/NF-archaeal histone domain [IPR003958] (2); Histone-fold [IPR009072] (2)	scaffold_9_mRNA_383.3	C_unshiu_00003_mRNA_111.1	-
GF0024828	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	Chaperonin Cpn60/TCP-1 family [IPR002423] (2); GroEL-like equatorial domain [IPR027413] (2); T-complex protein 1, gamma subunit [IPR021719] (2); Chaperone tailless complex polypeptide 1 (TCP-1) [IPR017998] (2); Chaperonin TCP-1, conserved site [IPR02194] (2)	scaffold_9_mRNA_380.8	C_unshiu_00003_mRNA_89.1	-
GF0024826	1	1	0	Hypothetical protein (2)	Nuclear transcription factor Y subunit C-2 (1); Nuclear transcription factor Y subunit C-9 (1)	14-3-3 domain [IPR023410] (2); 14-3-3 protein [IPR000308] (2)	scaffold_9_mRNA_379.6	C_unshiu_00003_mRNA_76.1	-
GF0024825	1	1	0	Splicing factor, arginine/serine-rich 12 (2)	protein heterodimerization activity [GO:0046982 molecular function] (2)	14-3-3 domain [IPR023410] (2); 14-3-3 protein [IPR000308] (2)	scaffold_9_mRNA_376.6	C_unshiu_00003_mRNA_49.1	-
GF0024822	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	Lateral organ boundaries, LOB [IPR004883] (2)	scaffold_9_mRNA_376.4	C_unshiu_00334_mRNA_14.1	-
GF0024821	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	14-3-3 domain [IPR023410] (2); 14-3-3 protein [IPR000308] (2)	scaffold_9_mRNA_374.3	C_unshiu_00003_mRNA_32.1	-
GF0024818	1	1	0	FUSICOCCIN receptor protein s (2)	nucleic acid binding [GO:0003676 molecular function] (2); protein dimerization activity [GO:0046983 molecular function] (2)	Lateral organ boundaries, LOB [IPR004883] (2)	scaffold_9_mRNA_373.6	C_unshiu_00003_mRNA_26.1	-
GF0024816	1	1	0	LOB domain-containing protein 4 (2)	nucleic acid binding [GO:0003676 molecular function] (2); protein dimerization activity [GO:0046983 molecular function] (2)	14-3-3 domain [IPR023410] (2); 14-3-3 protein [IPR000308] (2)	scaffold_9_mRNA_373.4	C_unshiu_00003_mRNA_23.1	-
GF0024815	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2); protein dimerization activity [GO:0046983 molecular function] (2)	Chaperonin HspC-like domain [IPR021337] (2); Chaperonin HspC-like domain [IPR002156] (2); Ribonuclease H-domain [IPR021337] (2)	scaffold_9_mRNA_376.1	C_unshiu_00003_mRNA_49.1	-
GF0024813	1	1	0	Cyclic nucleotide-gated ion channel 1 (2)	nucleic acid binding [GO:0003676 molecular function] (2); protein dimerization activity [GO:0046983 molecular function] (2)	Chaperonin HspC-like domain [IPR021337] (2); Chaperonin HspC-like domain [IPR002156] (2); Ribonuclease H-domain [IPR021337] (2)	scaffold_9_mRNA_371.4	C_unshiu_00003_mRNA_3.1	-
GF0024812	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2); protein dimerization activity [GO:0046983 molecular function] (2)	Chaperonin HspC-like domain [IPR021337] (2); Chaperonin HspC-like domain [IPR002156] (2); Ribonuclease H-domain [IPR021337] (2)	scaffold_9_mRNA_371.1	C_unshiu_01726_mRNA_1.1	-
GF0024811	1	1	0	Cyclic nucleotide-gated channel 5 isoform 1 (1); Hypothetical protein (1)	nucleic acid binding [GO:0003676 molecular function] (2); protein dimerization activity [GO:0046983 molecular function] (2)	Chaperonin HspC-like domain [IPR021337] (2); Chaperonin HspC-like domain [IPR002156] (2); Ribonuclease H-domain [IPR021337] (2)	scaffold_9_mRNA_371.0	C_unshiu_01726_mRNA_2.1	-
GF0024809	1	1	0	Non-LTR retroelement reverse transcriptase-like protein (2)	nucleic acid binding [GO:0003676 molecular function] (2); protein dimerization activity [GO:0046983 molecular function] (2)	Chaperonin HspC-like domain [IPR021337] (2); Chaperonin HspC-like domain [IPR002156] (2); Ribonuclease H-domain [IPR021337] (2)	scaffold_9_mRNA_370.5	C_unshiu_00740_mRNA_11.1	-
GF0024808	1	1	0	Cyclic nucleotide-gated ion channel-like protein (2)	nucleic acid binding [GO:0003676 molecular function] (2); protein dimerization activity [GO:0046983 molecular function] (2)	Chaperonin HspC-like domain [IPR021337] (2); Chaperonin HspC-like domain [IPR002156] (2); Ribonuclease H-domain [IPR021337] (2)	scaffold_9_mRNA_369.6	C_unshiu_00134_mRNA_2.1	-
GF0024807	1	1	0	Penicillipeptide repeat-containing family protein 1 (1); PPR containing plant-like protein (1)	Penicillipeptide repeat [IPR020885] (2); protein binding [GO:0005515 molecular function] (2)	Penicillipeptide repeat [IPR020885] (2); protein binding [GO:0005515 molecular function] (2)	scaffold_9_mRNA_367.6	C_unshiu_00134_mRNA_19.1	-
GF0024806	1	1	0	tRNA dimethyllyltransferase (2)	Penicillipeptide repeat [IPR020885] (2); protein binding [GO:0005515 molecular function] (2)	Penicillipeptide repeat [IPR020885] (2); protein binding [GO:0005515 molecular function] (2)	scaffold_9_mRNA_365.0	C_unshiu_00134_mRNA_44.1	-
GF0024805	1	1	0	Disease resistance family protein / LRR receptor-like kinase family protein (1)	Penicillipeptide repeat [IPR020885] (2); protein binding [GO:0005515 molecular function] (2)	Penicillipeptide repeat [IPR020885] (2); protein binding [GO:0005515 molecular function] (2)	scaffold_9_mRNA_364.5	C_unshiu_00134_mRNA_51.1	-
GF0024802	1	1	0	Hypothetical protein (2)	Penicillipeptide repeat [IPR020885] (2); protein binding [GO:0005515 molecular function] (2)	Penicillipeptide repeat [IPR020885] (2); protein binding [GO:0005515 molecular function] (2)	scaffold_9_mRNA_362.2	C_unshiu_00056_mRNA_50.1	-
GF0024801	1	1	0	Disease resistance family protein / LRR receptor-like kinase protein (2)	Penicillipeptide repeat [IPR020885] (2); protein binding [GO:0005515 molecular function] (2)	Penicillipeptide repeat [IPR020885] (2); protein binding [GO:0005515 molecular function] (2)	scaffold_9_mRNA_362.0	C_unshiu_00056_mRNA_48.1	-
GF0024800	1	1	0	Sulfatardiol 7-O-sacetyltransferase (1); N-acetyldiol 7-O-acetyltransferase, putative (1)	transferring acyl groups onto amino-suglyc groups [GO:0016747 molecular function] (2); iron ion binding [GO:0005506 molecular function] (2); oxido-reductase activity [GO:0016491 molecular function] (2); oxidation-reductase [GO:005114 biological process] (2); fatty acid biosynthetic process [GO:0006633 biological process] (1); lipid biosynthetic process [GO:0008610 biological process] (1)	Transferase [IPR003480] (2); Chlorophenicol acetyltransferase-like domain [IPR023213] (1)	scaffold_9_mRNA_361.5	C_unshiu_00056_mRNA_45.1	-
GF0024799	1	1	0	Beta-carotene hydroxylase 1 (2)	Fatty acid hydroxylase [IPR006694] (2)	scaffold_9_mRNA_359.3	C_unshiu_00056_mRNA_20.1	-	
GF0024798	1	1	0	Putative membrane ySL (2)	Protein of unknown function DUF819 [IPR008837] (2)	scaffold_9_mRNA_358.6	C_unshiu_00056_mRNA_13.1	-	
GF0024797	1	1	0	Putative membrane ySL (2)	Protein of unknown function DUF819 [IPR008837] (2)	scaffold_9_mRNA_358.5	C_unshiu_00056_mRNA_12.1	-	
GF0024795	1	1	0	Retinol dehydrogenase 14 (1)	NAD(P)-binding domain [IPR016040] (2)	scaffold_9_mRNA_358.1	C_unshiu_01328_mRNA_5.1	-	

ID	Num in <i>C. clementine</i>	Num in <i>C. umshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliata</i>
GF0024793	1	1	0	Short-chain dehydrogenase TIC 32, chloroplastic (2)	oxidoreductase activity [GO:0016491 molecular function] (1); metabolic process [GO:0008152 biological process] (1)	NAD(P)-binding domain [IPR016040] (2); Short-chain dehydrogenase/reductase SDR [IPR002347] (1); Short-chain dehydrogenase/reductase SDR [IPR002198] (1)	scaffold_9_mRNA_3544.1	C_umshiu_01221_mRNA_6.1	-
GF0024790	1	1	0	Putative Prolyl 4-hydroxylase alpha subunit (2)	L-serine/alpha acid binding [GO:0031418 molecular function] (2); oxidation-reduction process [GO:0055114 biological process] (2); oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:001705 molecular function] (2); iron ion binding [GO:0005506 molecular function] (2); oxidoreductase activity [GO:0016491 molecular function] (1)	Prolyl 4-hydroxylase, alpha subunit [IPR006620] (2); Oxyglutamate-depenant dioxygenase [IPR005123] (1)	scaffold_9_mRNA_3544.1	C_umshiu_01810_mRNA_6.1	-
GF0024789	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3530.1	C_umshiu_00045_mRNA_91.1	-
GF0024788	1	1	0	KDEL motif-containing protein 1 (2)			scaffold_9_mRNA_3515.1	C_umshiu_00045_mRNA_74.1	-
GF0024785	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Lipopolysaccharide-modifying protein [IPR006598] (2)	scaffold_9_mRNA_3499.1	C_umshiu_00045_mRNA_61.1	-
GF0024784	1	1	0	Serine/threonine-protein kinase PBS1 (1); G-type lectin S-receptor-like serine/threonine-protein kinase RKS1 (1)	ATP binding [GO:0035524 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (1); protein kinase activity [GO:0004672 molecular function] (2)	Ribonuclease H-like domain [IPR011349] (2); Protein kinase domain [IPR007179] (2); Protein kinase domain [IPR007179] (2); Protein kinase domain [IPR007179] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (1); scaffold_9_mRNA_3481.1 Serine/threonine-protein kinase catalytic domain [IPR002451] (1); Serine/threonine/proline-specific kinase, catalytic domain [IPR002451] (1)	scaffold_9_mRNA_3481.1	C_umshiu_00045_mRNA_47.1	-
GF0024781	1	1	0	Hypothetical protein (2)	oxidation-reduction process [GO:0055114 biological process] (2); oxidoreductase activity [GO:0016491 molecular function] (1); zinc ion binding [GO:0008270 molecular function] (1)	NAD(P)-binding domain [IPR016040] (2); GroES-like [IPR011032] (2); Alcohol dehydrogenase, C-terminal [IPR011349] (2); Alcohol dehydrogenase, C-terminal [IPR011349] (2); Intron-C terminal splicing region [PR030934] (1); Alcohol dehydrogenase superfamily, zinc-type [IPR002085] (1)	scaffold_9_mRNA_3449.1	C_umshiu_00045_mRNA_16.1	-
GF0024780	1	1	0	Hypothetical protein (2)	transferase activity, transferring hexyl groups [GO:00016758 molecular function] (2); metabolic process [GO:0008299 biological process] (2)	UDP-glucuronyl UDP-glucosyltransferase [IPR002213] (2)	scaffold_9_mRNA_3445.1	C_umshiu_00045_mRNA_12.1	-
GF0024779	1	1	0	Hydroxymethylglutaryl-CoA synthase (2)	catalytic activity [GO:0003854 molecular function] (1); suspended biosynthetic process [GO:0008299 biological process] (2); metabolic process [GO:0008152 biological process] (2)	Thiolese-like [IPR016029] (2); Hydroxymethylglutaryl-coenzyme A synthase, N-terminal [IPR013528] (2); Hydroxymethylglutaryl-CoA synthase, eukaryotic [IPR010122] (2); Hydroxymethylglutaryl-coenzyme A synthase, C-terminal domain [IPR013746] (2)	scaffold_9_mRNA_3441.1	C_umshiu_00045_mRNA_8.1	-
GF0024778	1	1	0	TCP family transcription factor (2)		Transcription factor, TCP [IPR005333] (2); Transcription factor TCP subgroup [IPR017887] (2)	scaffold_9_mRNA_3440.1	C_umshiu_00045_mRNA_7.1	-
GF0024777	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3432.1	C_umshiu_01380_mRNA_5.1	-
GF0024776	1	1	0	Gibberellin receptor GID1, putative (2)	hydrolase activity [GO:00016787 molecular function] (2); metabolic process [GO:0008152 biological process] (2)	Lipase, GDXG, putative histidine active site [IPR002168] (2); Alpha/Beta hydrolase fold [IPR029058] (2); scaffold_9_mRNA_3421.1 Alpha/beta hydrolase fold-3 [IPR013094] (2)	scaffold_9_mRNA_3421.1	C_umshiu_01050_mRNA_2.1	-
GF0024775	1	1	0	Hypothetical protein (2)	oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular function] (2); oxidation-reduction process [GO:0055114 biological process] (2); iron ion binding [GO:0005506 molecular function] (2); heme binding [GO:0020037 molecular function] (2)		scaffold_9_mRNA_3416.1	C_umshiu_01050_mRNA_6.1	-
GF0024773	1	1	0	Cytochrome P450 704C1 (2)	Cytochrome P450, E-class, group I [IPR002401] (2); Cytochrome P450 [IPR001128] (2)	scaffold_9_mRNA_3394.1	C_umshiu_00182_mRNA_44.1	-	
GF0024770	1	1	0	LRR receptor-like serine/threonine-protein kinase ERL1 (2)	ATP binding [GO:0005524 molecular function] (2); protein kinase activity [GO:0004672 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (2); protein binding [GO:0005515 molecular function] (2)	Protein kinase domain [IPR000719] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Protein kinase-like domain [IPR011009] (2); Leucine-rich repeat, tyrosine-type [IPR005591] (2); Serine/threonine-protein kinase active site [IPR008271] (2); Protein kinase, ATP binding site [IPR017441] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); Leucine-rich repeat [IPR016111] (2); Leucine-rich repeat [IPR016111] (2); Serine/threonine dual specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_9_mRNA_3385.1	C_umshiu_00182_mRNA_35.1	-
GF0024767	1	1	0	Hypothetical protein (2)		Protein kinase-like domain [IPR011009] (2)	scaffold_9_mRNA_333.1	C_umshiu_00085_mRNA_25.1	-
GF0024764	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_331.9	C_umshiu_00252_mRNA_22.1	-
GF0024763	1	1	0	Probable pectinesterase/pectinesterase inhibitor 60 (2)	pectinesterase activity [GO:0030599 molecular function] (2); enzyme inhibitor activity [GO:0004857 molecular function] (2); cell wall [GO:0005618 cellular component] (2); cell wall modification [GO:0004245 biological process] (2)	Pectinesterase, Asp active site [IPR003131] (2); Pectin hydrolase fold [IPR012334] (2); Pectinesterase inhibitor domain [IPR006501] (2); Pectinesterase, catalytic [IPR000070] (2); Pectinase, fold/virulence factor [IPR011050] (2); Pectinesterase, Tyr active site [IPR000070] (2)	scaffold_9_mRNA_3312.1	C_umshiu_00252_mRNA_29.1	-
GF0024761	1	1	0	Wall-associated receptor kinase 2 (2)	protein kinase activity [GO:0004672 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (2); ATP binding [GO:0003247 molecular function] (2); ATP binding [GO:0005524 molecular function] (2)	Serine/leucine-protein kinase, active site [IPR008271] (2); Wall-associated receptor kinase, galacturonan-binding domain [IPR025287] (2); Protein kinase-like domain [IPR011009] (2); Protein kinase domain [IPR000719] (2); Serine/threonine specific protein kinase, catalytic domain [IPR002290] (1); Concanavalin A-like lectin glucanase domain [IPR013320] (1)	scaffold_9_mRNA_3304.1	C_umshiu_00252_mRNA_36.1	-
GF0024760	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3302.1	C_umshiu_02743_mRNA_1.1	-
GF0024759	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3286.1	C_umshiu_00741_mRNA_1.1	-
GF0024758	1	1	0	RING finger and CHY zinc finger domain-containing protein 1 isoform 1 (2)			scaffold_9_mRNA_328.1	C_umshiu_00085_mRNA_29.1	-
GF0024757	1	1	0	Acidic endochitinase (2)	carbohydrate metabolic process [GO:0005975 biological process] (2); hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular function] (2)	Glycoside hydrolase family 18, catalytic domain [IPR001223] (2); Glycoside hydrolase, chitinase active site [IPR001179] (2); Glycoside hydrolase superfamily [IPR017853] (2); Glycoside hydrolase, catalytic domain [IPR013781] (1)	scaffold_9_mRNA_3267.1	C_umshiu_00433_mRNA_15.1	-
GF0024756	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_326.1	C_umshiu_00085_mRNA_31.1	-
GF0024755	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3256.1	C_umshiu_00433_mRNA_3.1	-
GF0024754	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3254.1	C_umshiu_00161_mRNA_41.1	-
GF0024753	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3238.1	C_umshiu_00095_mRNA_28.1	-
GF0024752	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3236.1	C_umshiu_00095_mRNA_31.1	-
GF0024748	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3216.1	C_umshiu_00095_mRNA_44.1	-
GF0024747	1	1	0	RNA-directed DNA polymerase (Reverse transcriptase) (2)		Reverse transcriptase domain [IPR000477] (2)	scaffold_9_mRNA_3205.1	C_umshiu_00599_mRNA_20.1	-
GF0024746	1	1	0	Hexose carrier protein HEX6 (2)	integral component of membrane [GO:0016021 cellular component] (2); substrate-specific transmembrane transporter activity [GO:0022891 molecular function] (2); membrane transporter activity [GO:0022857 molecular function] (2); membrane [GO:0016020 cellular component] (2); transporter activity [GO:0005215 molecular function] (2); transmembrane transport [GO:0005086 biological process] (2)	Sugar transporter, conserved site [IPR000477] (2); Major facilitator superfamily active site [IPR013846] (2); Major facilitator, sugar transporter-like [IPR005228] (2); Sugar:inorganic transporter [IPR033653] (2)	scaffold_9_mRNA_3203.1	C_umshiu_00599_mRNA_18.1	-
GF0024743	1	1	0	DERL1N-1 isoform 1 (2)	serine-type endopeptidase activity [GO:0004252 molecular function] (1); integral component of membrane [GO:0016021 cellular component] (1)	Delin [IPR007599] (2); Peptidase S54, rhomboid domain [IPR022764] (1)	scaffold_9_mRNA_3199.1	C_umshiu_00599_mRNA_16.1	-
GF0024742	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3192.1	C_umshiu_00599_mRNA_11.1	-
GF0024741	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3191.1	C_umshiu_00599_mRNA_10.1	-
GF0024739	1	1	0	Ankyrin repeat family protein, putative (1); Ankyrin repeat protein (1)	protein binding [GO:0005515 molecular function] (2)	Ankyrin repeat [IPR002110] (2); Ankyrin repeat-containing domain [IPR020683] (2)	scaffold_9_mRNA_3169.1	C_umshiu_00060_mRNA_6.1	-
GF0024738	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3163.1	C_umshiu_00060_mRNA_12.1	-
GF0024737	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3154.1	C_umshiu_00060_mRNA_20.1	-

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0024736	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524 molecular_function] (2); protein phosphorylation [GO:0056468 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2)	Protein kinase domain [IPR000719] (2); Protein kinase-like domain [IPR011099] (2); Berberine-berberine-protein kinase, activity [IPR008271] (2); PGG domain [IPR026961] (2)	scaffold_9_mRNA_3153.1	C_unshiu_00060_mRNA_21.1	-
GF0024735	1	1	0	FAD-binding Berberine family protein (2)	flavin adenine dinucleotide binding [GO:0050660 molecular function] (2); oxidoreductase activity [GO:0016491 molecular function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); catalytic activity [GO:0003824 molecular function] (2); oxidoreductase activity, acting on CH-OH group of donors [GO:0016614 molecular function] (2); flavin adenine dinucleotide binding [GO:0050660 molecular function] (2); oxidation- reduction process [GO:0055114 biological_process] (2)	Berberine/berberine-like [IPR012951] (2); FAD-binding, type 2, subdomain 1 [IPR016167] (2); CO dehydrogenase flavoprotein-like, FAD-binding, subdomain 2 [IPR016169] (2); FAD linked oxidase, N-terminal [IPR006094] (2); FAD-binding, type 2 [IPR016166] (2); Berberine/berberine-like [IPR012951] (2)	scaffold_9_mRNA_3148.1	C_unshiu_00060_mRNA_26.1	-
GF0024734	1	1	0	Tetratricopeptide repeat-like superfamily protein (2)	zinc ion binding [GO:0008270 molecular function] (2); protein binding [GO:0005155 molecular function] (2)	DYW domain [IPR03267] (2); Ubiquinol-cytochrome c chaperone [IPR0174] [IPR021150] (2); Penatricopeptide repeat [IPR02885] (2); Tetratricopeptide-like helical domain [IPR011990] (2)	scaffold_9_mRNA_3139.1	C_unshiu_00577_mRNA_11.1	-
GF0024733	1	1	0	FAD-binding Berberine family protein (2)	catalytic activity [GO:0003824 molecular function] (2); oxidation- reductase activity, acting on CH-OH group of donors [GO:0016614 molecular function] (2); flavin adenine dinucleotide binding [GO:0050660 molecular function] (2); oxidation- reduction process [GO:0055114 biological_process] (2)	FAD-binding, type 2, subdomain 1 [IPR016167] (2); CO dehydrogenase flavoprotein-like, FAD-binding, subdomain 2 [IPR016169] (2); FAD linked oxidase, N-terminal [IPR006094] (2); Berberine/berberine-like [IPR012951] (1)	scaffold_9_mRNA_3135.1	C_unshiu_00577_mRNA_7.1	-
GF0024732	1	1	0	Hypothetical protein (2)	-	PGG domain [IPR026961] (2); Ankyrin repeat-containing domain [IPR02683]	scaffold_9_mRNA_3133.1	C_unshiu_00577_mRNA_5.1	-
GF0024731	1	1	0	Ankyrin repeat family protein (2)	-	PGG domain [IPR026961] (1); Ankyrin repeat-containing domain [IPR02683]	scaffold_9_mRNA_3129.1	C_unshiu_00577_mRNA_2.1	-
GF0024730	1	1	0	Ethylene responsive element binding factor, putative (2)	transcription factor activity, sequence- specific DNA binding [GO:0003700 molecular function] (2); regulation of transcription DNA-templated [GO:0006355 biological process] (2); DNA binding [GO:0005677 molecular function] (2)	DNA-binding domain [IPR016177] (2); AP2/ERF domain [IPR00471] (2)	scaffold_9_mRNA_3126.1	C_unshiu_02129_mRNA_1.1	-
GF0024729	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_3124.1	C_unshiu_01744_mRNA_1.1	-
GF0024728	1	1	0	Hypothetical protein (2)	-	Transposase, MuDR, plant [IPR004332] (2)	scaffold_9_mRNA_3119.1	C_unshiu_00504_mRNA_19.1	-
GF0024726	1	1	0	Polymerase(I) transferase, ribonuclease 0 (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_9_mRNA_3112.1	C_unshiu_00504_mRNA_11.1	-
GF0024724	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_3109.1	C_unshiu_00504_mRNA_7.1	-
GF0024723	1	1	0	Hypothetical protein (2)	-	Ribonuclease H-like domain [IPR012337] (2)	scaffold_9_mRNA_3106.1	C_unshiu_00504_mRNA_5.1	-
GF0024722	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_3100.1	C_unshiu_01088_mRNA_3.1	-
GF0024720	1	1	0	Cyclin p4 (2)	protein kinase binding [GO:000901 molecular function] (2); regulation of cyclin-dependent protein kinase/berberine kinase activity [GO:0000079 biological process] (2)	Cyclin-like [IPR013763] (2); Cyclin PHO80-like [IPR01932] (2)	scaffold_9_mRNA_3093.1	C_unshiu_01088_mRNA_9.1	-
GF0024719	1	1	0	YDG domain-containing protein Atg47150 (1); Hypothetical protein (1)	histone binding [GO:0042393 molecular function] (2)	SRA-YDG [IPR003105] (2); PUA-like domain [IPR015947] (2); Reverse transcriptase zinc-binding domain [IPR026960] (1)	scaffold_9_mRNA_3090.1	C_unshiu_01196_mRNA_3.1	-
GF0024718	1	1	0	Protein GIGAS CELL1 (2)	negative regulation of ubiquitin protein ligase activity [GO:1904667 biological process] (1); nucleus [GO:0005634 cellular_component] (1); regulation of nuclear division [GO:0051783 biological process] (1)	POLYCHOME/GIGAS CELL1 [IPR034590] (1)	scaffold_9_mRNA_3074.1	C_unshiu_00115_mRNA_23.1	-
GF0024715	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_3065.1	C_unshiu_00115_mRNA_30.1	-
GF0024713	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular function] (2); nucleic acid binding [GO:0003676 molecular function] (2)	Reverse transcriptase zinc-binding domain [IPB026960] (2); Ribonuclease H-like domain [IPR012337] (2); Zinc knuckle CXXCXHXAC [IPR025836] (2); Zinc finger, CCHC-type [IPR001878] (2); Domain of unknown function DUF4283 [IPR025558] (1)	scaffold_9_mRNA_3045.1	C_unshiu_01621_mRNA_4.1	-
GF0024712	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_3037.1	C_unshiu_00119_mRNA_5.1	-
GF0024711	1	1	0	Adenylosuccinate synthetase, chloroplasts (2)	GTP binding [GO:0003555 molecular function] (2); adenylosuccinate synthetase activity [GO:000419 molecular function] (2); purine nucleotide biosynthetic process [GO:0006164 biological process] (2)	Adenylosuccinate synthetase [IPR001114] (2); L-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Adenylosuccinate synthetase activity [IPR031328] (2); Adenylosuccinate synthetase, GTP-binding site [IPB018220] (2)	scaffold_9_mRNA_3036.1	C_unshiu_00119_mRNA_6.1	-
GF0024710	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2); TB2/DP1/HV-A22- related protein [IPR004345] (1)	scaffold_9_mRNA_3029.1	C_unshiu_00119_mRNA_12.1	-
GF0024707	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2998.1	C_unshiu_00119_mRNA_41.1	-
GF0024706	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2987.1	C_unshiu_01698_mRNA_5.1	-
GF0024705	1	1	0	Hypothetical protein (2)	-	Domain of unknown function DUF4283 [IPR025558] (2); Zinc knuckle CXXCXHXAC [IPR025836] (2)	scaffold_9_mRNA_2984.1	C_unshiu_00751_mRNA_12.1	-
GF0024704	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2983.1	C_unshiu_00751_mRNA_11.1	-
GF0024702	1	1	0	Hypothetical protein (2)	-	Viral movement protein [IPR028919] (2)	scaffold_9_mRNA_2939.1	C_unshiu_01777_mRNA_4.1	-
GF0024699	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2912.1	C_unshiu_00132_mRNA_6.1	-
GF0024698	1	1	0	LRR receptor-like kinase family protein (2)	protein binding [GO:000515 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (1); protein kinase activity [GO:0004672 molecular function] (1)	Leucine-rich repeat-containing N- terminal, plant-type [IPB013210] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat domain, L domain- like [IPR032675] (2); Serine/threonine- tyrosine-protein kinase activity [IPR001245] (1); Protein kinase domain [IPR011009]	scaffold_9_mRNA_2903.1	C_unshiu_00132_mRNA_9.1	-
GF0024697	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2902.1	C_unshiu_00132_mRNA_10.1	-
GF0024695	1	1	0	Fragile histidine triad protein (2)	catalytic activity [GO:0003824 molecular function] (2)	HTL-like domain [IPR011146] (2); Histidine triad (HT) protein [IPR001110] (2); Histidine triad, conserved site [IPR019808] (2)	scaffold_9_mRNA_2891.1	C_unshiu_02647_mRNA_1.1	-
GF0024694	1	1	0	Hypothetical protein (2)	protein kinase activity [GO:0004672 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (2); ATP binding [GO:0005524 molecular function] (2)	Protein kinase domain [IPR000719] (2); Protein kinase domain [IPR011009]	scaffold_9_mRNA_2881.1	C_unshiu_00132_mRNA_30.1	-
GF0024693	1	1	0	Hypothetical protein (2)	cysteine protease activity [GO:0008324 molecular function] (2); proteolysis [GO:0006508 biological process] (2)	Transposon, En/Spm-like [IPR004242] (2); Ulp1 protease family, C-terminal catalytic domain [IPR003653] (2)	scaffold_9_mRNA_2880.1	C_unshiu_00132_mRNA_32.1	-
GF0024692	1	1	0	Hypothetical protein (2)	cation transmembrane transporter activity [GO:0008324 molecular function] (1); integral component of membrane [GO:0005524 molecular function] (1); transporter [GO:0008812 biological process] (1); transmembrane transport [GO:0005085 biological process] (1)	Cation efflux protein transmembrane domain [IPR027469] (1); Cation efflux protein [IPR002524] (1)	scaffold_9_mRNA_2878.1	C_unshiu_00132_mRNA_34.1	-
GF0024691	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2876.1	C_unshiu_01177_mRNA_8.1	-
GF0024690	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular function] (2); protein dimerization activity [GO:0046983 molecular function] (2)	Transcription factor, MADS-box [IPR002100] (2)	scaffold_9_mRNA_2872.1	C_unshiu_01156_mRNA_10.1	-
GF0024689	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2865.1	C_unshiu_00879_mRNA_4.1	-
GF0024688	1	1	0	MADS-box transcription factor family protein (2)	DNA binding [GO:0003677 molecular function] (2); protein dimerization activity [GO:0046983 molecular function] (2)	Transcription factor, MADS-box [IPR002100] (2)	scaffold_9_mRNA_2864.1	C_unshiu_00879_mRNA_5.1	-
GF0024687	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2859.1	C_unshiu_01550_mRNA_2.1	-
GF0024686	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2857.1	C_unshiu_01550_mRNA_4.1	-
GF0024685	1	1	0	Hypothetical protein (2)	Transposon-associated domain [IPR029480] (2)	-	scaffold_9_mRNA_2840.1	C_unshiu_01096_mRNA_7.1	-
GF0024681	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2820.1	C_unshiu_00451_mRNA_3.1	-

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0024680	1	1	0	MADS-box transcription factor family protein (1); Hypothetical protein (1)	protein dimerization activity [GO:0046983 molecular function] (2); DNA binding [GO:0003677 molecular function] (2)	Transcription factor, MADS-box [IPR002100] (2)	scaffold_9_mRNA_2819.1	C_unshiu_00828_mRNA_1.1	-
GF0024679	1	1	0	Hypothetical protein (2)	protein phosphorylation [GO:0006464 biological process] (2); protein kinase activity [GO:0004672 molecular function] (2); ATP binding [GO:0005524 molecular function] (2)	Protein kinase-like domain [IPR011009] (2); Protein kinase domain [IPR000719] (2); Serine-threonine-protein kinase activity catalytic domain [IPR001245] (1); Serine-threonine/tyrosine-protein kinase, catalytic domain [IPR001245] (1)	scaffold_9_mRNA_2817.1	C_unshiu_00222_mRNA_25.1	-
GF0024678	1	1	0	AP2 type transcription factor (2)	DNA binding [GO:0003677 molecular function] (2); regulation of transcription, DNA-templated [GO:0002233 biological process] (2); transcription factor activity, sequence-specific DNA binding [GO:0003700 molecular function] (2); multicellular organism development [GO:0007275 biological process] (1); multicellular organism development [GO:0007275 biological process] (1)	DNA-binding domain [IPR016177] (2); AP2-like ethylene-responsive transcription factor [IPR031112] (2); AP2/ERF domain [IPR001471] (2)	scaffold_9_mRNA_2804.1	C_unshiu_00222_mRNA_19.1	-
GF0024677	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524 molecular function] (2); transporter activity [GO:0005215 molecular function] (2); transport [GO:000610 biological process] (2); ATPase activity [GO:0016887 molecular function] (2); integral component of membrane [GO:0016021 cellular component] (2)	AA+-ATPase domain [IPR003593] (2); ABC transporter A, ABCA [IPR026082] (2); ABC transporter-like [IPR03439] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); ABC transporter, conserved site [IPR017671] (2)	scaffold_9_mRNA_2801.2	C_unshiu_00222_mRNA_15.2	-
GF0024676	1	1	0	Hypothetical protein (2)	[PR029472] (1)	Gag-type ATPase domain [IPR029472] (1)	scaffold_9_mRNA_2800.1	C_unshiu_00222_mRNA_14.1	-
GF0024675	1	1	0	Hypothetical protein (2)	[PR029473] (1)	ABC transporter A, ABCB [IPR026083] (2)	scaffold_9_mRNA_2793.1	C_unshiu_00222_mRNA_7.1	-
GF0024674	1	1	0	Hypothetical protein (2)	[PR029474] (1)	ABC transporter-like [IPR03439] (2)	scaffold_9_mRNA_2780.1	C_unshiu_01023_mRNA_2.1	-
GF0024673	1	1	0	Glycoprotein family protein (2)	mitochondrial matrix [GO:0005759 cellular component] (2)	Mitochondrial glycoprotein [IPR003428] (2)	scaffold_9_mRNA_2772.2	C_unshiu_00148_mRNA_17.2	-
GF0024672	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Ribosucrose H-like domain [IPR012337] (2)	scaffold_9_mRNA_2771.1	C_unshiu_02385_mRNA_2.1	-
GF0024671	1	1	0	Plasma membrane-type calcium ATPase (1); Hypothetical protein (1)	calmodulin binding [GO:0005516 molecular function] (1); integral component of membrane [GO:0016021 cellular component] (1)	P-type ATPase, transmembrane domain [IPR023298] (2); Cation-transporting P-type ATPase, C-terminal [IPR006068] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); P-type ATPase, N-terminal autoinhibitory domain [IPR024750] (1); HAD-like domain [IPR023214] (1)	scaffold_9_mRNA_2767.1	C_unshiu_02385_mRNA_1.1	-
GF0024669	1	1	0	Hypothetical protein (2)	[PR029475] (1)	Retroviral aspartyl protease [IPR013242] (2); Aspartyl protease domain [IPR013242] (2)	scaffold_9_mRNA_2757.1	C_unshiu_00645_mRNA_8.1	-
GF0024668	1	1	0	Hypothetical protein (2)	[PR029476] (1)	Domain of unknown function DUF4216 [IPR025312] (2); Probable transposase, Pta/Spm, plant [IPR004252] (2); Domain of unknown function DUF4218 [IPR025452] (1); LOG family [IPR025452] (1); Transposase-associated domain [IPR023061] (1)	scaffold_9_mRNA_2752.1	C_unshiu_02971_mRNA_1.1	-
GF0024666	1	1	0	Hypothetical protein (2)	[PR029477] (1)	Endonuclease/exonuclease/phosphatase [IPR005135] (2)	scaffold_9_mRNA_2738.1	C_unshiu_00295_mRNA_15.1	-
GF0024665	1	1	0	Hypothetical protein (2)	[PR029478] (1)	scaffold_9_mRNA_2736.1	C_unshiu_00295_mRNA_13.1	-	
GF0024664	1	1	0	Hypothetical protein (2)	[PR029479] (1)	scaffold_9_mRNA_2735.1	C_unshiu_00295_mRNA_12.1	-	
GF0024663	1	1	0	Hypothetical protein (2)	[PR029480] (1)	scaffold_9_mRNA_2734.1	C_unshiu_00295_mRNA_11.1	-	
GF0024662	1	1	0	Hypothetical protein (2)	Cysteine-rich transmembrane CYSTM domain [IPR028144] (1)	Cysteine-rich transmembrane CYSTM domain [IPR028144] (1)	scaffold_9_mRNA_2731.1	C_unshiu_00295_mRNA_9.1	-
GF0024661	1	1	0	Hypothetical protein (2)	[PR000447] (2)	scaffold_9_mRNA_2730.1	C_unshiu_00295_mRNA_8.1	-	
GF0024660	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Ribosucrose H-like domain [IPR012337] (2); HAT, C-terminal dimerization domain [IPR008906] (2)	scaffold_9_mRNA_273.1	C_unshiu_00036_mRNA_16.1	-
GF0024659	1	1	0	Hypothetical protein (2)	[PR029481] (1)	Reverse transcriptase zinc-binding domain [IPR026060] (2); Reverse transcriptase domain [IPR000477] (1); Chromo-domain-like [IPR016197] (1)	scaffold_9_mRNA_2727.1	C_unshiu_00295_mRNA_5.1	-
GF0024658	1	1	0	Ribonuclease H protein, putative (1); Hypothetical protein (1)	[PR029482] (1)	Domain of unknown function DUF4216 [IPR025558] (1)	scaffold_9_mRNA_2723.1	C_unshiu_00295_mRNA_2.1	-
GF0024657	1	1	0	Hypothetical protein (2)	[PR029483] (1)	Domain of unknown function DUF4283 [IPR025558] (1)	scaffold_9_mRNA_2721.1	C_unshiu_00295_mRNA_1.1	-
GF0024656	1	1	0	Hypothetical protein (2)	[PR029484] (1)	Domain X [IPR024937] (2); Cip2/cronetase-like domain [IPR029045] (2); Cronetase superfamily [IPR001753] (2)	scaffold_9_mRNA_2715.1	C_unshiu_00331_mRNA_15.1	-
GF0024655	1	1	0	Putative COX1/OX13 intron 2 protein (2)	mRNA processing [GO:0006397 biological process] (2)	(2); Reverse transcriptase domain [IPR000477] (2)	scaffold_9_mRNA_2714.1	C_unshiu_00331_mRNA_16.1	-
GF0024654	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2)	scaffold_9_mRNA_2711.1	C_unshiu_00391_mRNA_20.1	-	
GF0024653	1	1	0	Hypothetical protein (2)	ribonuclease H-like domain [IPR012337] (2); HAT, C-terminal dimerization domain [IPR008906] (2)	Ribonuclease H-like domain [IPR012337] (2); HAT, C-terminal dimerization domain [IPR008906] (2)	scaffold_9_mRNA_2705.1	C_unshiu_00391_mRNA_17.1	-
GF0024652	1	1	0	Hypothetical protein (2)	[PR005135] (2)	Endonuclease/exonuclease/phosphatase [IPR005135] (2)	scaffold_9_mRNA_2703.1	C_unshiu_00391_mRNA_15.1	-
GF0024651	1	1	0	Hypothetical protein (2)	[PR005135] (2)	Cip2/cronetase-like domain [IPR029045] (2)	scaffold_9_mRNA_2702.1	C_unshiu_00391_mRNA_14.1	-
GF0024650	1	1	0	Hypothetical protein (2)	[PR005135] (2)	Domain of unknown function DUF4283 [IPR000477] (2)	scaffold_9_mRNA_2701.1	C_unshiu_00391_mRNA_13.1	-
GF0024649	1	1	0	UDP-glucuronic acid dehydrogenase 1 (2)	NAD(P)-binding domain [IPR016040] (2)	NAD(P)-binding domain [IPR016040] (2)	scaffold_9_mRNA_270.1	C_unshiu_00036_mRNA_19.1	-
GF0024648	1	1	0	KATAMARI1 (1); Hypothetical protein (1)	[PR004263] (2)	Exotoxin-like [IPR004263] (2)	scaffold_9_mRNA_2698.1	C_unshiu_00391_mRNA_9.1	-
GF0024647	1	1	0	Hypothetical protein (2)	[PR029485] (1)	scaffold_9_mRNA_2691.1	C_unshiu_00391_mRNA_5.1	-	
GF0024646	1	1	0	Hypothetical protein (2)	[PR029486] (1)	scaffold_9_mRNA_2684.1	C_unshiu_01282_mRNA_9.1	-	
GF0024645	1	1	0	Hypothetical protein (2)	[PR029487] (1)	scaffold_9_mRNA_2683.1	C_unshiu_01282_mRNA_8.1	-	
GF0024644	1	1	0	Phyloplasm (1); Hypothetical protein (1)	[PR029488] (1)	scaffold_9_mRNA_268.1	C_unshiu_00036_mRNA_23.1	-	
GF0024643	1	1	0	Hypothetical protein (2)	[PR029489] (1)	scaffold_9_mRNA_2661.1	C_unshiu_00933_mRNA_26.1	-	
GF0024642	1	1	0	Hypothetical protein (2)	[PR029490] (1)	Viral movement protein [IPR028919] (2)	scaffold_9_mRNA_2648.1	C_unshiu_00280_mRNA_12.1	-
GF0024641	1	1	0	Hypothetical protein (2)	[PR029491] (1)	scaffold_9_mRNA_2640.1	C_unshiu_00444_mRNA_6.1	-	
GF0024640	1	1	0	Hypothetical protein (2)	[PR029492] (1)	scaffold_9_mRNA_2623.1	C_unshiu_01247_mRNA_10.1	-	
GF0024639	1	1	0	Hypothetical protein (2)	[PR029493] (1)	scaffold_9_mRNA_2620.1	C_unshiu_01247_mRNA_8.1	-	
GF0024638	1	1	0	Hypothetical protein (2)	[PR029494] (1)	scaffold_9_mRNA_2618.1	C_unshiu_01247_mRNA_6.1	-	
GF0024637	1	1	0	Hypothetical protein (2)	[PR029495] (1)	Domain of unknown function DUF4283 [IPR025558] (1)	scaffold_9_mRNA_2601.1	C_unshiu_00454_mRNA_10.1	-
GF0024635	1	1	0	Hypothetical protein (2)	[PR029496] (1)	Domain X [IPR024937] (2); Reverse transcriptase domain [IPR000477] (1)	scaffold_9_mRNA_2595.1	C_unshiu_00046_mRNA_3.1	-
GF0024634	1	1	0	Hypothetical protein (2)	[PR029497] (1)	scaffold_9_mRNA_2581.1	C_unshiu_00160_mRNA_41.1	-	
GF0024632	1	1	0	Hypothetical protein (2)	[PR029498] (1)	scaffold_9_mRNA_2580.1	C_unshiu_00160_mRNA_40.1	-	
GF0024631	1	1	0	Beta 1,3 glucanase (2)	carbohydrate metabolic process [GO:0005975 biological process] (2); hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular function] (2)	Glycoside hydrolase superfamily family 17 [IPR000490] (2); Glycoside hydrolase, catalytic domain [IPR013781] (1)	scaffold_9_mRNA_2578.1	C_unshiu_00160_mRNA_38.1	-
GF0024630	1	1	0	Hypothetical protein (2)	[PR029499] (1)	scaffold_9_mRNA_2567.1	C_unshiu_00160_mRNA_27.1	-	
GF0024629	1	1	0	Hypothetical protein (2)	[PR029500] (1)	scaffold_9_mRNA_2566.1	C_unshiu_00160_mRNA_26.1	-	
GF0024628	1	1	0	Hypothetical protein (2)	[PR029501] (1)	scaffold_9_mRNA_2554.1	C_unshiu_01758_mRNA_8.1	-	
GF0024625	1	1	0	Hypothetical protein (2)	[PR029502] (1)	Protein kinase-like domain [IPR011099] (2)	scaffold_9_mRNA_2539.1	C_unshiu_00064_mRNA_66.1	-
GF0024624	1	1	0	Epoxide hydrolase (2)	catalytic activity [GO:0003824 molecular function] (2)	Alpha/Beta hydrolase fold-1 [IPR026058] (2); Alpha/Beta hydrolase fold-1 [IPR00073] (2); Epoxide hydrolase-like domain [IPR004330] (2); F11Y/FAR1 family [IPR003102] (2); Zinc finger, SWIM-type [IPR000572] (2); MULE-like [IPR032675] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Leucine-rich repeat, tyrosine/phenylalanine [IPR000591] (2)	scaffold_9_mRNA_253.1	C_unshiu_00614_mRNA_23.1	-
GF0024623	1	1	0	Protein FAR1-RELATED SEQUENCE 6 templated (2)	regulation of transcription, DNA-templated [IPR0006355 biological process] (2); zinc ion binding [GO:0008270 molecular function] (2)	F11Y/FAR1 family [IPR003102] (2); Zinc finger, SWIM-type [IPR000572] (2); MULE-like [IPR032675] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Zinc finger, tyrosine/phenylalanine [IPR000591] (2)	scaffold_9_mRNA_2520.1	C_unshiu_00345_mRNA_15.1	-
GF0024622	1	1	0	Hypothetical protein (2)	[PR029503] (2)	scaffold_9_mRNA_2513.1	C_unshiu_02090_mRNA_2.1	-	
GF0024621	1	1	0	Hypothetical protein (2)	[PR029504] (2)	scaffold_9_mRNA_2505.1	C_unshiu_00082_mRNA_26.1	-	
GF0024620	1	1	0	LRR receptor-like kinase family protein (2)	protein binding [GO:0005515 molecular function] (2)	scaffold_9_mRNA_2502.1	C_unshiu_00148_mRNA_2.1	-	
GF0024619	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2)	scaffold_9_mRNA_2500.1	C_unshiu_00148_mRNA_6.1	-	
GF0024618	1	1	0	Epoxide hydrolase 2 (1); Epoxide hydrolase (1)	catalytic activity [GO:0003824 molecular function] (2)	Alpha/beta hydrolase fold-1 [IPR00073] (2); Alpha/Beta hydrolase fold [IPR029508] (2)	scaffold_9_mRNA_250.1	C_unshiu_00846_mRNA_5.1	-
GF0024615	1	1	0	Non-LTR retroelement reverse transcriptase-like (1); Hypothetical protein (1)	nucleic acid binding [GO:0003676 molecular function] (2); DNA binding [GO:0006677 molecular function] (1); protein dimerization activity [GO:0046983 molecular function] (1)	Epoxide hydrolase-like [IPR000639] (2); Alpha/beta hydrolase fold-1 [IPR00073] (2); Alpha/Beta hydrolase fold [IPR029508] (2); Rhamnose-6-phosphate isomerase H-like domain [IPR012337] (2)	scaffold_9_mRNA_2468.1	C_unshiu_00011_mRNA_86.1	-

ID	Num. in <i>C. clementiae</i>	Num. in <i>C. umshiu</i>	Num. in <i>P. trifoliata</i>	Name	GO	InterPro	Members in <i>Clementiae</i>	Members in <i>Canthar</i>	Members in <i>P. trifoliata</i>	
GF0024614	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2466.1	C_umshiu_00011_mRNA_83.1	-	
GF0024613	1	1	0	Cytokinin riboside 5'-monophosphate phosphoribohydrolase (2)		LOG family [IPR031100] (2); Aspartic peptidase domain [IPR021109] (1)	scaffold_9_mRNA_2464.1	C_umshiu_00011_mRNA_83.1	-	
GF0024612	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2463.1	C_umshiu_00011_mRNA_82.1	-	
GF0024611	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2457.1	C_umshiu_00011_mRNA_75.1	-	
GF0024610	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2448.1	C_umshiu_00170_mRNA_42.1	-	
GF0024609	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2444.1	C_umshiu_00170_mRNA_37.1	-	
GF0024608	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2442.1	C_umshiu_00170_mRNA_35.1	-	
GF0024607	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2441.1	C_umshiu_00170_mRNA_34.1	-	
GF0024606	1	1	0	Hypothetical protein (2)		SAM dependent carboxyl methyltransferase activity [GO:0008168 molecular_function] (1)				
GF0024604	1	1	0	Hypothetical protein (2)		methyltransferase [IPR005299] (1); S-adenosyl-L-methionine-dependent methyltransferase [IPR029653] (1)	scaffold_9_mRNA_2417.1	C_umshiu_00486_mRNA_12.1	-	
GF0024603	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2407.1	C_umshiu_00336_mRNA_18.1	-	
GF0024602	1	1	0	Zinc knuckle family protein (2)		zinc ion binding [GO:0008270 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Zinc finger, CCHC-type [IPR001878] (2) scaffold_9_mRNA_2404.1	C_umshiu_00336_mRNA_14.1	-	
GF0024601	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2402.1	C_umshiu_00336_mRNA_10.1	-	
GF0024600	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2400.1	C_umshiu_00336_mRNA_8.1	-	
GF0024599	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2397.1	C_umshiu_00336_mRNA_6.1	-	
GF0024597	1	1	0	Hemopexin (1); Hypothetical protein (1)		Endonuclease/exonuclease/phosphatase [IPR005135] (2)	scaffold_9_mRNA_2393.1	C_umshiu_00336_mRNA_4.1	-	
GF0024596	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2382.1	C_umshiu_00165_mRNA_32.1	-	
GF0024595	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2381.1	C_umshiu_00165_mRNA_31.1	-	
GF0024594	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2379.1	C_umshiu_00156_mRNA_37.1	-	
GF0024593	1	1	0	Hypothetical protein (2)		LOG family [IPR031100] (1)	scaffold_9_mRNA_2374.1	C_umshiu_00156_mRNA_41.1	-	
GF0024592	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2371.1	C_umshiu_00014_mRNA_11.1	-	
GF0024591	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2369.1	C_umshiu_00529_mRNA_20.1	-	
GF0024590	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2366.1	C_umshiu_00529_mRNA_23.1	-	
GF0024588	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2362.1	C_umshiu_01129_mRNA_11.1	-	
GF0024587	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2361.1	C_umshiu_01129_mRNA_10.1	-	
GF0024586	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2360.1	C_umshiu_01129_mRNA_13.1	-	
GF0024585	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_236.1	C_umshiu_00014_mRNA_10.1	-	
GF0024584	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2355.1	C_umshiu_00118_mRNA_68.1	-	
GF0024583	1	1	0	Hypothetical protein (2)		proteolysis [GO:0006508 biological_process] (2); nucleic acid binding [GO:0003676 molecular_function] (2); aspartic-type endopeptidase activity [GO:0004190 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (2)	Zinc finger, CCHC-type [IPR001878] (2); Aspartic peptidase, active site [IPR001969] (2)	scaffold_9_mRNA_2353.1	C_umshiu_00118_mRNA_66.1	-
GF0024582	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2351.1	C_umshiu_00118_mRNA_65.1	-	
GF0024581	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2348.1	C_umshiu_00118_mRNA_60.1	-	
GF0024580	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2347.1	C_umshiu_00118_mRNA_58.1	-	
GF0024579	1	1	0	Hypothetical protein (2)		Viral movement protein [IPR028919] (2)	scaffold_9_mRNA_2346.1	C_umshiu_00118_mRNA_57.1	-	
GF0024578	1	1	0	Hypothetical protein (2)						
GF0024577	1	1	0	Hypothetical protein (2)						
GF0024575	1	1	0	Hypothetical protein (2)						
GF0024574	1	1	0	Hypothetical protein (2)						
GF0024573	1	1	0	Hypothetical protein (2)						
GF0024572	1	1	0	STELLAR K ⁺ outward rectifier isoform 2 (1); Potassium channel SKOR (1)						
GF0024571	1	1	0	Hypothetical protein (2)						
GF0024570	1	1	0	Hypothetical protein (2)						
GF0024569	1	1	0	Hypothetical protein (2)						
GF0024568	1	1	0	Hypothetical protein (2)						
GF0024567	1	1	0	Hypothetical protein (2)						
GF0024566	1	1	0	Hypothetical protein (2)						
GF0024565	1	1	0	Hypothetical protein (2)						
GF0024564	1	1	0	Hypothetical protein (2)						
GF0024563	1	1	0	Hypothetical protein (2)						
GF0024562	1	1	0	Hypothetical protein (2)						
GF0024561	1	1	0	Hypothetical protein (2)						
GF0024560	1	1	0	Hypothetical protein (2)						
GF0024559	1	1	0	Hypothetical protein (2)						
GF0024558	1	1	0	Hypothetical protein (2)						
GF0024557	1	1	0	Hypothetical protein (2)						
GF0024556	1	1	0	Hypothetical protein (2)						
GF0024555	1	1	0	Hypothetical protein (2)						
GF0024554	1	1	0	Hypothetical protein (2)						
GF0024553	1	1	0	Hypothetical protein (2)						
GF0024552	1	1	0	Hypothetical protein (2)						
GF0024551	1	1	0	Hypothetical protein (2)						
GF0024550	1	1	0	Hypothetical protein (2)						
GF0024549	1	1	0	Hypothetical protein (2)						
GF0024548	1	1	0	Hypothetical protein (2)						
GF0024547	1	1	0	Hypothetical protein (2)						
GF0024546	1	1	0	Hypothetical protein (2)						
GF0024545	1	1	0	Hypothetical protein (2)						
GF0024544	1	1	0	Hypothetical protein (2)						
GF0024543	1	1	0	Hypothetical protein (2)						
GF0024541	1	1	0	Hypothetical protein (2)						
GF0024540	1	1	0	Hypothetical protein (2)						
GF0024539	1	1	0	Hypothetical protein (2)						
GF0024538	1	1	0	Hypothetical protein (2)		nucleic acid binding [GO:0003676 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (2)	Zinc finger, CCHC-type [IPR001878] (2) scaffold_9_mRNA_2179.1	C_umshiu_00921_mRNA_5.1	-	
GF0024537	1	1	0	Nucleic acid-binding proteins superfamily isoform 1 (2)		S1 domain [IPR003029] (2); Nucleic acid-binding, OB-fold [IPR021240] (2); RNA-binding domain, S1 [IPR022967] (2)	scaffold_9_mRNA_2178.1	C_umshiu_00921_mRNA_2.1	-	
GF0024536	1	1	0	Hypothetical protein (2)		Reverse transcriptase zinc-binding domain [IPR026960] (1)	scaffold_9_mRNA_2176.1	C_umshiu_00998_mRNA_2.1	-	
GF0024535	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2173.1	C_umshiu_00380_mRNA_21.1	-	
GF0024532	1	1	0	Hypothetical protein (2)		Zinc finger, PMZ-type [IPR006564] (2); Transposase, MuDR, plant [IPR004332] (2); Zinc finger, SWIM-type [IPR007527] (2)	scaffold_9_mRNA_2166.1	C_umshiu_00107_mRNA_35.1	-	
GF0024531	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2162.1	C_umshiu_00110_mRNA_41.1	-	
GF0024530	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2161.1	C_umshiu_00036_mRNA_65.1	-	
GF0024529	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2158.1	C_umshiu_00107_mRNA_37.1	-	
GF0024528	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2157.1	C_umshiu_00107_mRNA_38.1	-	
GF0024527	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2154.1	C_umshiu_00107_mRNA_41.1	-	
GF0024526	1	1	0	Xyloglucan endotransglucosidase/hydrolase protein 15 (2)		Glycosidase hydrolase, family 16, active site [IPR008261] (2); Xyloglucan endotransglucosidase/hydrolase domain [IPR026960] (1)	scaffold_9_mRNA_2147.1	C_umshiu_00107_mRNA_48.1	-	
GF0024525	1	1	0	Pentatricopeptide repeat (PPR) superfamily protein (1); Pentatricopeptide repeat-containing family protein (1)		Tetratricopeptide-like helical domain [IPR011990] (2); Pentatricopeptide repeat [IPR0072885] (2)	scaffold_9_mRNA_2127.1	C_umshiu_00122_mRNA_15.1	-	

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0024522	1	1	0	Glycoside hydrolase family 28 protein (2)	carbohydrate metabolic process [GO:0006975 biological_process] (2); polygalacturonase activity [GO:0004650 molecular_function] (2)	Protein of unknown function DUF4602 [IPR027973] (2); Peptidase inhibitor [IPR011050] (2); Peptidase inhibitor [IPR011050] (2); Glycoside hydrolase, family 28 [IPR012454] (2); Peptidase inhibitor [IPR012454] (2); Reverse transcriptase [IPR013103] (2); DNA polymerase [IPR013103] (2); GAG-pre-integrase domain [IPR025724] (2)	scaffold_9_mRNA_212.2	C_unshiu_00355_mRNA_23.2	-
GF0024521	1	1	0	Polypolyprotein (1); Copia ltr rider (1)	-	-	scaffold_9_mRNA_2115.1	C_unshiu_00122_mRNA_30.1	-
GF0024520	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2114.1	C_unshiu_00122_mRNA_31.1	-
GF0024519	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2108.1	C_unshiu_00122_mRNA_37.1	-
GF0024518	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2106.1	C_unshiu_00122_mRNA_39.1	-
GF0024517	1	1	0	Glycine hydroxymethyltransferase (2)	L-serine metabolic process [GO:0006565 biological_process] (2); glycine metabolic process [GO:0006544 biological_process] (2); pyridoxal phosphate binding [GO:0030170 molecular_function] (2); transferase activity [GO:0004682 molecular_function] (2); [GO:000824 molecular_function] (2); glycine hydroxymethyltransferase activity (1); Pyridoxal phosphate-dependent transferase, major region, subdomain 2 [GO:0004372 molecular_function] (2)	Pyridoxal phosphate-dependent transferase, major region, subdomain 1 [IPR015421] (2); Serine hydroxylmethyltransferase, pyridoxal phosphate binding site [IPR019798] (2); Pyridoxal phosphate-dependent transferase [IPR015424] (2); Serine hydroxylmethyltransferase [IPR010085] (2); Pyridoxal phosphate-dependent transferase, subdomain 2 [IPR015422]; glycine hydroxymethyltransferase activity (1); Pyridoxal phosphate-dependent transferase, major region, subdomain 2 [IPR015422] (1)	scaffold_9_mRNA_2103.1	C_unshiu_00122_mRNA_42.1	-
GF0024516	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2101.1	C_unshiu_00122_mRNA_44.1	-
GF0024515	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular_function] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	Zinc finger, CCHC-type [IPR001878] (1) scaffold_9_mRNA_2093.1	scaffold_9_mRNA_2100.1	C_unshiu_00781_mRNA_17.1	-
GF0024513	1	1	0	Hypothetical protein (2)	metal ion binding [GO:0046872 molecular_function] (2); metal ion binding [GO:0030001 biological_process] (2)	Heavy metal-associated domain, HMA [IPR006121] (2)	scaffold_9_mRNA_209.1	C_unshiu_00355_mRNA_20.1	-
GF0024512	1	1	0	Hypothetical protein (2)	defense response [GO:0009532 biological_process] (2); response to biotic stimulus [GO:0009877 biological_process] (2)	Bet v 1 type allergen [IPR024949] (2); Bet v 1 Major latex protein [IPR000916] (2); START-like domain [IPR023393] (2); Major latex protein domain [IPR024948] (1)	scaffold_9_mRNA_208.1	C_unshiu_00355_mRNA_19.1	-
GF0024511	1	1	0	PR10 protein (2)	-	-	scaffold_9_mRNA_207.9	C_unshiu_01797_mRNA_1.1	-
GF0024510	1	1	0	Polyproline-rich polypeptide (1); Hypothetical protein (1)	Gag-polypeptide of LTR copia-type [IPR029472] (2)	scaffold_9_mRNA_2075.1	C_unshiu_00268_mRNA_21.1	-	
GF0024509	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2073.1	C_unshiu_00268_mRNA_20.1	-
GF0024508	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_207.1	C_unshiu_00355_mRNA_18.1	-
GF0024507	1	1	0	Bet v 1 allergen (1); Hypothetical protein (1)	response to biotic stimulus [GO:00096072 biological_process] (1); defense response [GO:0006952 biological_process] (1)	Bet v 1 type allergen [IPR024949] (2); Bet v 1 Major latex protein [IPR000916] (1)	scaffold_9_mRNA_2065.1	C_unshiu_00268_mRNA_10.1	-
GF0024506	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2062.1	C_unshiu_00268_mRNA_7.1	-
GF0024505	1	1	0	6α-hydroxyxmasckain methyltransferase family protein (2)	O-methyltransferase activity [GO:0008171 molecular_function] (2); protein dimerization activity [GO:00080981 molecular_function] (2); O-methyltransferase activity [GO:0008168 molecular_function] (2)	Methylation [IPR029603] (2); Plant methylesterase [IPR02967] (2); O-methyltransferase [IPR02968] (2); O-methyltransferase, family 2 [IPR001077] (2); Winged-helix-turn-helix-DNA-binding domain [IPR011991] (2)	scaffold_9_mRNA_2064.1	C_unshiu_00268_mRNA_9.1	-
GF0024504	1	1	0	Hypothetical protein (2)	proteolysis [GO:0005608 biological_process] (1); cysteine-type peptidase activity [GO:0008234 molecular_function] (1)	Protein of unknown function DUF4218 [IPR025452] (2); Defense unknown function [IPR025312] (2); Ulp1 protease family, C-Arm domain [IPR036353] (1)	scaffold_9_mRNA_205.1	C_unshiu_00355_mRNA_16.1	-
GF0024503	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2052.1	C_unshiu_00268_mRNA_2.1	-
GF0024502	1	1	0	Fra 2 allergen (1); Major allergen Fra 2 allergen (1)	response to biotic stimulus [GO:00096072 biological_process] (2); defense response [GO:0006952 biological_process] (2)	Bet v 1 type allergen [IPR024949] (2); Bet v 1 Major latex protein [IPR000916] (2); START-like domain [IPR023393] (2)	scaffold_9_mRNA_205.1	C_unshiu_00355_mRNA_16.1	-
GF0024501	1	1	0	Cytoskeleton riboside 5'-monophosphate phosphotransferase (2)	-	-	scaffold_9_mRNA_2045.1	C_unshiu_00994_mRNA_38.1	-
GF0024500	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2042.1	C_unshiu_00994_mRNA_35.1	-
GF0024499	1	1	0	UV radiation resistance-associated protein (2)	-	-	scaffold_9_mRNA_2038.1	C_unshiu_00994_mRNA_31.1	-
GF0024498	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2037.1	C_unshiu_00994_mRNA_30.1	-
GF0024497	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2034.1	C_unshiu_00994_mRNA_27.1	-
GF0024496	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2030.1	C_unshiu_00994_mRNA_24.1	-
GF0024495	1	1	0	Putative UMUC-like DNA repair family protein (2)	-	-	scaffold_9_mRNA_2028.1	C_unshiu_00994_mRNA_21.1	-
GF0024494	1	1	0	Autophagy protein 5 (2)	autophagy [GO:0006914 biological_process] (2); cytoplasm [GO:0005737 cellular_component] (2)	Autophagy-related protein 5 [IPR007239] (2)	scaffold_9_mRNA_2027.1	C_unshiu_00994_mRNA_20.1	-
GF0024493	1	1	0	Hypothetical protein (2)	cytoplasm [GO:0005737 cellular_component] (2); autophagy [GO:0006914 biological_process] (2)	Autophagy-related protein 5 [IPR007239] (2)	scaffold_9_mRNA_2023.1	C_unshiu_00994_mRNA_17.1	-
GF0024492	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2016.1	C_unshiu_00994_mRNA_7.1	-
GF0024491	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2015.1	C_unshiu_00994_mRNA_6.1	-
GF0024490	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2012.1	C_unshiu_00994_mRNA_2.1	-
GF0024489	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2008.1	C_unshiu_00679_mRNA_3.1	-
GF0024488	1	1	0	Alkaline ceramidase 3 (2)	ceramide metabolic process [GO:0006972 biological_process] (2); hydrolase activity, acting on carbon-nitrogen bonds, in linear amides [GO:0016811 molecular_function] (2); integral component of membrane [GO:0016021 cellular_component] (2)	Viral movement protein [IPR028919] (2); Aspartic peptidase, active site [IPR001669] (2); Aspartic peptidase domain [IPR021109] (1); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_9_mRNA_2006.1	C_unshiu_00679_mRNA_5.1	-
GF0024487	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508 biological_process] (2)	-	scaffold_9_mRNA_2004.1	C_unshiu_00679_mRNA_6.1	-
GF0024486	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2002.1	C_unshiu_00679_mRNA_9.1	-
GF0024485	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_2.1	C_unshiu_00230_mRNA_30.1	-
GF0024483	1	1	0	Major allergen Mal d 1 (2)	defense response [GO:0006952 biological_process] (2); response to biotic stimulus [GO:00096072 biological_process] (2)	Bet v 1 Major latex protein [IPR000916] (2); START-like domain [IPR023393] (2); Bet v 1 type allergen [IPR024949] (2); Major latex protein domain [IPR024948] (1)	scaffold_9_mRNA_198.1	C_unshiu_00355_mRNA_11.1	-
GF0024481	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_197.1	C_unshiu_00393_mRNA_16.1	-
GF0024480	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_195.1	C_unshiu_00015_mRNA_12.1	-
GF0024479	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_195.1	C_unshiu_00355_mRNA_9.1	-
GF0024476	1	1	0	Hypothetical protein (2)	hydrolase activity [GO:0016787 molecular_function] (2)	Iron/zinc purple acid phosphatase-like C-terminal domain [IPR025733] (2); Metallo-dependent phosphatase-like domain [IPR029480] (2); Transposase-associated domain [IPR029480] (2)	scaffold_9_mRNA_1936.1	C_unshiu_00567_mRNA_1.1	-
GF0024475	1	1	0	Hypothetical protein (1); BED zinc finger/HAT family dimerization domain (1)	DNA binding [GO:0006777 molecular_function] (2); nucleic acid binding [GO:0006767 molecular_function] (1); protein dimerization activity [GO:0046983 molecular_function] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	hAT-like transposase, RNase-H fold [IPR025525] (2); HAT, C-terminal dimerisation domain [IPR008906] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_9_mRNA_1931.1	C_unshiu_00567_mRNA_7.1	-
GF0024474	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_1925.1	C_unshiu_00567_mRNA_13.1	-
GF0024473	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_1918.1	C_unshiu_00170_mRNA_21.1	-
GF0024471	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_1898.1	C_unshiu_00057_mRNA_65.1	-
GF0024470	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_1896.1	C_unshiu_00057_mRNA_63.1	-
GF0024469	1	1	0	DUF247 domain protein (2)	Protein of unknown function DUF247, plant [IPR004158] (2)	Ribonuclease H-like domain [IPR012337] (1)	scaffold_9_mRNA_1892.1	C_unshiu_00701_mRNA_3.1	-
GF0024468	1	1	0	Hypothetical protein (2)	Protein of unknown function DUF247, plant [IPR004158] (2)	hAT-like transposase, RNase-H fold [IPR025525] (2); HAT, C-terminal dimerisation domain [IPR008906] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_9_mRNA_1890.1	C_unshiu_00701_mRNA_5.1	-
GF0024467	1	1	0	Hypothetical protein (2)	Protein of unknown function DUF247, plant [IPR004158] (2)	hAT-like transposase, RNase-H fold [IPR025525] (2); HAT, C-terminal dimerisation domain [IPR008906] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_9_mRNA_1889.1	C_unshiu_00701_mRNA_6.1	-
GF0024466	1	1	0	UPP0481 protein (2)	Protein of unknown function DUF247, plant [IPR004158] (2)	hAT-like transposase, RNase-H fold [IPR025525] (2); HAT, C-terminal dimerisation domain [IPR008906] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_9_mRNA_1887.1	C_unshiu_02148_mRNA_5.1	-
GF0024465	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	hAT-like transposase, RNase-H fold [IPR025525] (2); HAT, C-terminal dimerisation domain [IPR008906] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_9_mRNA_1886.1	C_unshiu_02148_mRNA_4.1	-
GF0024464	1	1	0	Hypothetical protein (2)	ribonuclease H-like domain [IPR012337] (1)	hAT-like transposase, RNase-H fold [IPR025525] (2); HAT, C-terminal dimerisation domain [IPR008906] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_9_mRNA_1885.1	C_unshiu_02148_mRNA_3.1	-
GF0024463	1	1	0	Hypothetical protein (2)	retrotransposon gag domain [IPR005162] (2)	hAT-like transposase, RNase-H fold [IPR025525] (2); HAT, C-terminal dimerisation domain [IPR008906] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_9_mRNA_1884.1	C_unshiu_02148_mRNA_2.1	-
GF0024462	1	1	0	Hypothetical protein (2)	aspارت酸肽酶 domain [IPR021109] (1)	hAT-like transposase, RNase-H fold [IPR025525] (2); HAT, C-terminal dimerisation domain [IPR008906] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_9_mRNA_1881.1	C_unshiu_00287_mRNA_13.1	-
GF0024461	1	1	0	Hypothetical protein (2)	aspارت酸肽酶 domain [IPR021109] (1)	hAT-like transposase, RNase-H fold [IPR025525] (2); HAT, C-terminal dimerisation domain [IPR008906] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_9_mRNA_1880.1	C_unshiu_00287_mRNA_12.1	-

ID	Num in <i>C. clementinae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0024460	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Ribonuclease H-like domain [IPR012337]; Cys:Reverse transcriptase zinc-binding domain [IPR026960] (2); Endonuclease/exonuclease/phosphatase [IPR005135] (2)	scaffold_9_mRNA_1864.1	C_unshiu_00124_mRNA_27.1	-
GF0024459	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular function] (2); phosphorelay signal transduction system [GO:0000160 biological process] (2)	Signal transduction-response regulator, receiver domain [IPR001789] (2); CheY-like superfamily [IPR011006] (2); Myb-domain [IPR017930] (2); Myb-domain, plants [IPR006447] (2); SANT/Myb domain [IPR001005] (2); Homeobox-domain-like [IPR000957] (2); Homeodomain-like [IPR000957] (1)	scaffold_9_mRNA_1862.1	C_unshiu_00124_mRNA_25.1	-
GF0024457	1	1	0	Two-component response regulator ARR12-like protein (2)	DNA binding [GO:0003677 molecular function] (2); phosphorelay signal transduction system [GO:0000160 biological process] (2)	scaffold_9_mRNA_186.1	C_unshiu_00007_mRNA_2.1	-	
GF0024456	1	1	0	Hypothetical protein (2)	Transposase, MuDR, plant [IPR004332] (2)	scaffold_9_mRNA_1858.1	C_unshiu_00480_mRNA_4.1	-	
GF0024455	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1849.1	C_unshiu_00351_mRNA_17.1	-		
GF0024454	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1847.1	C_unshiu_00351_mRNA_16.1	-		
GF0024452	1	1	0	Hypothetical protein (2)	Reverse transcriptase, RNA-dependent RNA polymerase [IPR013103] (2)	scaffold_9_mRNA_1843.1	C_unshiu_00351_mRNA_13.1	-	
GF0024451	1	1	0	Hypothetical protein (2)	Alpha/Beta hydrolase fold [IPR029058] (1)	scaffold_9_mRNA_1832.1	C_unshiu_01152_mRNA_5.1	-	
GF0024449	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1822.1	C_unshiu_01121_mRNA_7.1	-		
GF0024448	1	1	0	Cytokinin riboside 5'-monophosphate phosphotriphosphohydase (2)	CBF1-interacting co-repressor CIR, N-terminal domain [IPR019339] (2)	scaffold_9_mRNA_1815.1	C_unshiu_00323_mRNA_6.1	-	
GF0024447	1	1	0	Leukocyte receptor cluster member 1 (2)	scaffold_9_mRNA_1813.1	C_unshiu_01046_mRNA_3.1	-		
GF0024446	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1808.1	C_unshiu_01596_mRNA_2.1	-		
GF0024445	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1807.1	C_unshiu_01596_mRNA_1.1	-		
GF0024444	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular function] (2); protein dimerization activity [GO:0046983 molecular function] (2); nucleic acid binding [GO:0006576 molecular function] (2)	HAT, C-terminal dimerization domain [IPR008096] (2); Zinc finger, IBD-type [IPR003556] (2); Ribonuclease H-like domain [IPR012337] (2); Zinc finger, CH2-type [IPR013087] (1)	scaffold_9_mRNA_1806.1	C_unshiu_00645_mRNA_13.1	-
GF0024443	1	1	0	Putative AC transposase (2)	Transposase-associated domain [IPR029480] (2); WD40/YVTN repeat-like-containing domain [IPR019493] (1); WD40-repeat-containing domain [IPR017961] (1)	scaffold_9_mRNA_1805.1	C_unshiu_00645_mRNA_14.1	-	
GF0024442	1	1	0	Hypothetical protein (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_9_mRNA_1789.1	C_unshiu_00506_mRNA_13.1	-	
GF0024441	1	1	0	Hypothetical protein (2)	Transposase-associated domain [IPR029480] (2); WD40/YVTN repeat-like-containing domain [IPR019493] (1); scaffold_9_mRNA_1788.1	scaffold_9_mRNA_1788.1	C_unshiu_00506_mRNA_12.1	-	
GF0024440	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular function] (1)	scaffold_9_mRNA_1782.1	C_unshiu_00920_mRNA_3.1	-	
GF0024439	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1781.1	C_unshiu_00920_mRNA_2.1	-		
GF0024438	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1780.1	C_unshiu_00351_mRNA_11.1	-		
GF0024436	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1779.1	C_unshiu_00920_mRNA_1.1	-		
GF0024435	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1778.1	C_unshiu_00013_mRNA_1.1	-		
GF0024434	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular function] (2); protein dimerization protein kinase [IPR020636]	Calcium/calmodulin-dependent calcium-dependent protein kinase [IPR020636] (2)	scaffold_9_mRNA_1775.1	C_unshiu_00506_mRNA_5.1	-
GF0024433	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1770.1	C_unshiu_00662_mRNA_40.1	-		
GF0024432	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1768.1	C_unshiu_01039_mRNA_2.1	-		
GF0024431	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1765.1	C_unshiu_00309_mRNA_17.1	-		
GF0024430	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1752.1	C_unshiu_02379_mRNA_1.1	-		
GF0024429	1	1	0	Transcription factor MYB12 (2)	DNA binding [GO:0003677 molecular function] (2)	SANT/Myb domain [IPR001005] (2); Myb-domain [IPR017930] (2); Homeodomain-like [IPR000957] (1)	scaffold_9_mRNA_175.1	C_unshiu_00007_mRNA_13.1	-
GF0024428	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological process] (2)	FARI DNA-binding domain [IPR031052] (2); FHY3/FAR1 family [IPR031052] (2); Zinc finger, SWIM-type [IPR005727] (2); MULE-transposase domain [IPR018289] (2)	scaffold_9_mRNA_1743.1	C_unshiu_00424_mRNA_10.1	-
GF0024427	1	1	0	Transposon protein, putative, unclassified (1); Protein FAR-RED IMPAIRED RESPONSE 1 (1)	Transposon protein, putative, unclassified (1); Protein FAR-RED IMPAIRED RESPONSE 1 (1)	FHY3/FAR1 family [IPR031052] (2); Zinc finger, SWIM-type [IPR005727] (2); MULE-transposase domain [IPR018289] (2)	scaffold_9_mRNA_1742.1	C_unshiu_00424_mRNA_9.1	-
GF0024426	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1740.1	C_unshiu_00424_mRNA_7.1	-		
GF0024425	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1738.1	C_unshiu_00424_mRNA_5.1	-		
GF0024423	1	1	0	Hypothetical protein (2)	Retroposon gag domain [IPR005162] (1)	scaffold_9_mRNA_1732.1	C_unshiu_01199_mRNA_3.1	-	
GF0024422	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1721.1	C_unshiu_00620_mRNA_10.1	-		
GF0024421	1	1	0	Hypothetical protein (1); Ethylene-responsive transcription factor ERF114 (1)	DNA binding [GO:0003677 molecular function] (1); transcription factor activity, sequence-specific DNA binding [GO:0003700 molecular function] (1); regulation of transcription, DNA-templated [GO:0006355 biological process] (1)	DNA-binding domain [IPR016177] (1); AP2/ERF domain [IPR001471] (1)	scaffold_9_mRNA_1720.1	C_unshiu_00620_mRNA_11.2	-
GF0024420	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1714.1	C_unshiu_00063_mRNA_6.1	-		
GF0024419	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1711.1	C_unshiu_00007_mRNA_18.1	-		
GF0024418	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1709.1	C_unshiu_00211_mRNA_1.1	-		
GF0024417	1	1	0	60S ribosomal protein L30 (2)	ribosome [GO:0005540 cellular component] (2); intracellular [GO:0005622 cellular component] (2); translation [GO:0006412 biological process]; structural constituent of ribosome [GO:0003735 molecular function] (2)	Ribosomal protein L30c, conserved site [IPR022991] (2); Ribosomal protein L7Ae/L30e/S12e/Gadd45 [IPR004038] (2); 50S ribosomal protein L30e-like [IPR029664] (2); Ribosomal protein S3ae [IPR003211] (2)	scaffold_9_mRNA_1708.1	C_unshiu_00211_mRNA_2.1	-
GF0024416	1	1	0	Putative non-LTR reverse transcriptase (1); Hypothetical protein (1)	nucleic acid binding [GO:0003676 molecular function] (2)	ribosome-binding domain [IPR026960] (2); Ribonuclease H-like domain [IPR012337] (2); Domain of unknown function DUF4283 [IPR025558] (1)	scaffold_9_mRNA_1704.1	C_unshiu_00211_mRNA_9.1	-
GF0024415	1	1	0	TMV resistance protein N (2)	ADP binding [GO:0043531 molecular function] (2); signal transduction [GO:0000158 biological process] (2); protein binding [GO:0005151 molecular function] (1); protein binding [GO:0005151 molecular function] (1)	P-loop containing nucleotide triphosphate hydrolase [IPR027417] (2); NB-ARC domain [IPR013083] (2); Seven-in-absence domain [IPR018121] (2); Leucine-rich repeat domain, 1 domain-like [IPR032675] (2); Toll-like receptor homology (TIR) domain [IPR000157] (1)	scaffold_9_mRNA_1701.1	C_unshiu_00211_mRNA_13.1	-
GF0024414	1	1	0	Hypothetical protein (2)	Reverse transcriptase zinc-binding domain [IPR026960] (2)	Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Seven-in-absence domain [IPR018121] (2); Zinc finger, SRP54 [IPR008974] (2); E3泛素化蛋白酶 [IPR001462] (2); Zinc finger, RING-type [IPR001841] (2); SLAH-type domain [IPR013323] (1)	scaffold_9_mRNA_1699.1	C_unshiu_00211_mRNA_15.1	-
GF0024413	1	1	0	Hypothetical protein (2)	Ribonuclease H-like domain [IPR012337] (1)	scaffold_9_mRNA_1698.1	C_unshiu_00211_mRNA_16.1	-	
GF0024410	1	1	0	E3 ubiquitin-protein ligase (2)	ubiquitin-dependent protein-catalytic process [GO:0006534 cellular component] (2); ubiquitin-dependent protein-catalytic process [GO:0006534 cellular component] (2); multicellular organismal development [GO:0007275 biological process] (1); protein ubiquitination [GO:0016567 biological process] (1); ubiquitin-protein transferase activity [GO:0004842 molecular function] (1); multicellular organismal development [GO:0007275 biological process] (1)	Toll-like receptor homology (TIR) domain [IPR000157] (1)	scaffold_9_mRNA_1671.1	C_unshiu_00294_mRNA_14.1	-
GF0024409	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2); zinc ion binding [GO:0008270 molecular function] (2)	Domain of unknown function DUF4283 [IPR025558] (2); Zinc Knuckle/CXC-X4H4C [IPR025835] (2); Zinc finger, CCHC-type [IPR001878] (2)	scaffold_9_mRNA_1661.1	C_unshiu_00294_mRNA_7.1	-
GF0024407	1	1	0	Hypothetical protein (2)	hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds [GO:0016810 molecular function] (2)	Met-dependent hydrolase, composite domain [IPR011059] (2); Amidohydrolase 3 [IPR013108] (2); Metal-dependent hydrolase [IPR032466] (2); Fe2+ like [IPR033932] (1)	scaffold_9_mRNA_1660.1	C_unshiu_00603_mRNA_8.1	-
GF0024406	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1658.1	C_unshiu_00603_mRNA_6.1	-		
GF0024403	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1631.1	C_unshiu_02459_mRNA_1.1	-		
GF0024402	1	1	0	Hypothetical protein (2)	scaffold_9_mRNA_1629.1	C_unshiu_00354_mRNA_21.1	-		
GF0024400	1	1	0	Putative amidohydrolase ytcJ (2)	GTPase activity [GO:0003924 molecular function] (2); signal recognition particle receptor complex [GO:0005785 cellular component] (2); intracellular protein transport [GO:0006886 biological process] (2); SRP-dependent cotranslational protein targeting to membrane [GO:0006614 biological process] (1)	Metal-dependent hydrolase, composite domain [IPR011059] (2); Amidohydrolase 3 [IPR013108] (2); Metal-dependent hydrolase [IPR032466] (2); Fe2+ like [IPR033932] (1)	scaffold_9_mRNA_1616.1	C_unshiu_00952_mRNA_1.1	-
GF0024399	1	1	0	Hypothetical protein (2)	Signal recognition particle receptor, alpha subunit, N-terminal [IPR007221] (2); Signal recognition particle, SRP54 subunit, helical bundle [IPR013822] (1)	scaffold_9_mRNA_1612.1	C_unshiu_00512_mRNA_13.1	-	

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>	
GF0024398	1	1	0	Leucine-rich repeat protein kinase family protein (2)	protein binding [GO:0005515]; molecular function [2]; protein kinase activity [GO:0004672]; molecular function [2]; protein phosphorylation [GO:0006468]; biological process [2]; ATP binding [GO:0005524]; molecular function [2]	Leucine-rich repeat [IPR001611] (2); Protein kinase domain [IPR001009]; Leucine-rich repeat domain, L domain [IPR032675] (2); Protein kinase domain [IPR000719] (2); Serine-threonine-lysine-protein kinase, catalytic domain [IPR002290]; Serine-threonine-ds specificity protein kinase, catalytic domain [IPR002290]; Serine/threonine-protein kinase, active site [IPR008271] (1); Protein kinase, ATP binding site [IPR017441] (1); Concanavalin A-like lectin/glycanase domain [IPR013730] (1)	scaffold_9_mRNA_1611.1	C_unshiu_02063_mRNA_3.1	-	
GF0024397	1	1	0	Hypothetical protein (2)		Leucine-rich repeat [IPR001611] (2); Reverse transcriptase, RNA-dependent DNA polymerase [IPR013103] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_9_mRNA_1610.1	C_unshiu_02063_mRNA_4.1	-	
GF0024396	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515]; molecular function [2]		scaffold_9_mRNA_1609.1	C_unshiu_00512_mRNA_11.1	-	
GF0024395	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1607.1	C_unshiu_00512_mRNA_8.1	-	
GF0024394	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1601.1	C_unshiu_00926_mRNA_3.1	-	
GF0024393	1	1	0	Hypothetical protein (1); RNA-directed DNA polymerase (Reverse transcriptase) (1)			scaffold_9_mRNA_1594.1	C_unshiu_00926_mRNA_8.1	-	
GF0024392	1	1	0	DNA polymerase (Reverse transcriptase)		Aspartic peptidase domain [IPR021109] (2); Reverse transcriptase domain [IPR000477] (1)	scaffold_9_mRNA_1593.1	C_unshiu_00926_mRNA_9.1	-	
GF0024391	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1588.1	C_unshiu_01176_mRNA_2.1	-	
GF0024390	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1584.1	C_unshiu_01176_mRNA_5.1	-	
GF0024389	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1583.1	C_unshiu_01176_mRNA_6.1	-	
GF0024388	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1576.1	C_unshiu_01433_mRNA_7.1	-	
GF0024387	1	1	0	Hypothetical protein (2)		Transposase, MuDR, plant [IPR004332] (2)	scaffold_9_mRNA_1575.1	C_unshiu_01433_mRNA_6.1	-	
GF0024386	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1574.1	C_unshiu_01433_mRNA_5.1	-	
GF0024385	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1572.1	C_unshiu_01870_mRNA_1.1	-	
GF0024384	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]; molecular function [2]	Ribonuclease H-like domain [IPR012337] (2)	scaffold_9_mRNA_1570.1	C_unshiu_01870_mRNA_3.1	-	
GF0024383	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1563.1	C_unshiu_01433_mRNA_1.1	-	
GF0024381	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1559.1	C_unshiu_01680_mRNA_3.1	-	
GF0024380	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1557.1	C_unshiu_01680_mRNA_5.1	-	
GF0024378	1	1	0	UDPGlucuronosyl/UDPGlucosyl transferase (1); Pentatricopeptide-containing protein, chlorophyllic (1)	protein binding [GO:0005515]; molecular function [2]	Tetratricopeptide-like helical domain [IPR011990] (2); Pentatricopeptide repeat [IPR028585] (2)	scaffold_9_mRNA_1553.1	C_unshiu_01796_mRNA_5.1	-	
GF0024376	1	1	0	Loop nucleotide triphosphate hydrolase superfamily protein (2)		P-loop containing nucleoside triphosphatase hydrolase [IPR027417] (2)	scaffold_9_mRNA_1549.1	C_unshiu_00747_mRNA_17.1	-	
GF0024375	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1547.1	C_unshiu_00747_mRNA_16.1	-	
GF0024374	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1545.1	C_unshiu_00747_mRNA_14.1	-	
GF0024373	1	1	0	Hypothetical protein (2)		nucleobase-containing compound nucleobase-containing compound [GO:0006139]; biological process [2]; 3'-5' exonuclease activity [GO:0008408]; molecular function [2]; nucleic acid binding [GO:0005676]; molecular function [2]	Ribonuclease H-like domain [IPR012337] (2); 3'-5' exonuclease domain [IPR002562] (2)	scaffold_9_mRNA_1544.1	C_unshiu_00747_mRNA_13.1	-
GF0024372	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1540.1	C_unshiu_01191_mRNA_2.1	-	
GF0024371	1	1	0	Hypothetical protein (2)		ubiquitin-dependent protein catabolic process [GO:0006511]; biological_process [2]	SKP1 component, dimerisation [IPR016072] (2)	scaffold_9_mRNA_1536.1	C_unshiu_01191_mRNA_7.1	-
GF0024370	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1530.1	C_unshiu_01126_mRNA_11.1	-	
GF0024368	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1513.1	C_unshiu_01938_mRNA_5.1	-	
GF0024367	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1502.1	C_unshiu_00787_mRNA_18.1	-	
GF0024365	1	1	0	Hypothetical protein (1); Chloroplast lumen common family protein (1)	protein binding [GO:0005515]; molecular function [2]	Tetratricopeptide-repeat-containing domain [IPR012026] (2); Tetratricopeptide repeat [IPR011990] (2); Tetratricopeptide repeat 2 [IPR011105] (1)	scaffold_9_mRNA_1495.1	C_unshiu_00963_mRNA_7.1	-	
GF0024364	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1491.1	C_unshiu_00007_mRNA_38.1	-	
GF0024363	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1462.1	C_unshiu_00351_mRNA_10.1	-	
GF0024362	1	1	0	Phloem protein 2-B5 (2)	protein binding [GO:0005515]; molecular function [2]	F-box domain [IPR001810] (2)	scaffold_9_mRNA_1461.1	C_unshiu_00351_mRNA_9.1	-	
GF0024361	1	1	0	Putative non-LTR retroelement reverse transcriptase (2)	nucleic acid binding [GO:0003676]; molecular function [2]	Ribonuclease H-like domain [IPR012337] (2)	scaffold_9_mRNA_1455.1	C_unshiu_01074_mRNA_10.1	-	
GF0024360	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1446.1	C_unshiu_00994_mRNA_45.1	-	
GF0024359	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1445.1	C_unshiu_00994_mRNA_44.1	-	
GF0024358	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677]; molecular function [2]; nucleic acid binding [GO:0006567]; molecular function [1]	hAT-like transposase, RNase-H fold [IPR025525] (2); Ribonuclease H-like domain [IPR012337] (1)	scaffold_9_mRNA_1444.1	C_unshiu_00994_mRNA_43.1	-	
GF0024357	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1443.1	C_unshiu_00994_mRNA_42.1	-	
GF0024355	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1427.1	C_unshiu_00124_mRNA_20.1	-	
GF0024354	1	1	0	Pentatricopeptide repeat-containing family protein (2)	protein binding [GO:0005515]; molecular function [1]	Pentatricopeptide repeat [IPR002285]; (2); Tetratricopeptide-like helical domain [IPR011990] (1)	scaffold_9_mRNA_1425.1	C_unshiu_00124_mRNA_16.1	-	
GF0024353	1	1	0	Type II peroxiredoxin (2)	oxidoreductase activity [GO:0016491]; molecular function [2]	Redoxin [IPR013740] (2); Thioredoxin [IPR012336] (2); F-box domain [IPR001810] (2); Phloem protein 2-like [IPR025886] (2)	scaffold_9_mRNA_1424.1	C_unshiu_00124_mRNA_15.1	-	
GF0024352	1	1	0	Phloem protein 2-B5 (2)	protein binding [GO:0005515]; molecular function [2]	F-box domain [IPR001810] (2); Phloem protein 2-like [IPR025886] (2); Cyclic nucleotide-binding-like [IPR018490] (2); RnfC-terminal jelly roll fold [IPR010417] (2); (2)-cycle nucleotide-binding domain [IPR006595] (2)	scaffold_9_mRNA_1421.1	C_unshiu_00124_mRNA_12.1	-	
GF0024351	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1420.1	C_unshiu_00124_mRNA_11.1	-	
GF0024350	1	1	0	Phloem protein 2-B5 (2)	protein binding [GO:0005515]; molecular function [2]; DNA binding [GO:0003677]; molecular function [2]; nucleic acid binding [GO:0005676]; molecular function [1]	F-box domain [IPR001810] (2); Phloem protein 2-like [IPR025886] (2); Zinc finger C2H2-type [IPR001810] (2)	scaffold_9_mRNA_1416.1	C_unshiu_00124_mRNA_5.1	-	
GF0024349	1	1	0	Hypothetical protein (2)		Zinc finger BED-type [IPR003656] (2); Zinc finger C2H2-type [IPR013087] (1)	scaffold_9_mRNA_1404.1	C_unshiu_00367_mRNA_15.1	-	
GF0024348	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4283 [IPR025558] (2); NAD(P)-binding domain [IPR016040] (2)	scaffold_9_mRNA_1403.1	C_unshiu_00367_mRNA_14.1	-	
GF0024347	1	1	0	Progesterone 5-beta-reductase (2)			scaffold_9_mRNA_1402.1	C_unshiu_00367_mRNA_13.1	-	
GF0024343	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270]; molecular function [2]	Zinc knuckle CX2C4H4X4C [IPR025836] (2); Domain of unknown function DUF4283 [IPR025558] (2); Zinc finger SWIM-type [IPR007527] (2)	scaffold_9_mRNA_1401.1	C_unshiu_00367_mRNA_14.1	-	
GF0024342	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1358.1	C_unshiu_00057_mRNA_11.1	-	
GF0024341	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1357.1	C_unshiu_00057_mRNA_12.1	-	
GF0024340	1	1	0	Hypothetical protein (2)		EF-hand domain pair [IPR011992] (2); EF-hand 1, calcium-binding site [IPR018247] (2); EF-hand domain [IPR002048] (2)	scaffold_9_mRNA_1355.1	C_unshiu_00057_mRNA_14.1	-	
GF0024339	1	1	0	UPF0481 protein (2)		Gag-polypeptide of LTR copia-type [IPR029472] (1); Wall-associated receptor kinase, C-terminal [IPR032872] (1)	scaffold_9_mRNA_1354.1	C_unshiu_00057_mRNA_16.1	-	
GF0024338	1	1	0	Hypothetical protein (2)		Zinc finger SWIM-type [IPR007527] (2); Zinc finger PMZ-2-type [IPR006564] (2); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_9_mRNA_1348.1	C_unshiu_01146_mRNA_2.1	-	
GF0024335	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1337.1	C_unshiu_00057_mRNA_23.1	-	
GF0024334	1	1	0	Hypothetical protein (1); AT4g04660 protein (1)	nucleic acid binding [GO:0003676]; molecular function [2]; zinc ion binding [GO:0008270]; molecular function [2]	Domain of unknown function DUF4283 [IPR025558] (2); Zinc knuckle CX2C4H4X4C [IPR025836] (2); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_9_mRNA_1319.1	C_unshiu_00451_mRNA_15.1	-	
GF0024333	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1312.1	C_unshiu_00178_mRNA_40.1	-	
GF0024332	1	1	0	60S ribosomal protein L14-2 (1); Hypothetical protein (1)	intracellular [GO:000562]; cellular_component [2]; translation [GO:0006412 biological_process] (2); structural constituent of ribosome [GO:0003676 molecular function] (2); ribosome [GO:0058540 cellular_component] (2)	Translational protein SH3-like domain [IPR008911] (2); Ribosomal protein L2 domain [IPR014722] (2); Ribosomal protein L14 domain [IPR002741] (1); Ribosomal protein L14 [IPR002784] (1)	scaffold_9_mRNA_1310.1	C_unshiu_00178_mRNA_38.1	-	
GF0024329	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1303.1	C_unshiu_00311_mRNA_26.1	-	
GF0024327	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1282.1	C_unshiu_01632_mRNA_10.1	-	
GF0024326	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1281.1	C_unshiu_01632_mRNA_9.1	-	
GF0024325	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_128.1	C_unshiu_00007_mRNA_59.1	-	
GF0024322	1	1	0	Hypothetical protein (2)		MULE transposase domain [IPR018289] (1)	scaffold_9_mRNA_126.8	C_unshiu_00998_mRNA_13.1	-	
GF0024321	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1267.1	C_unshiu_02381_mRNA_1.1	-	
GF0024319	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1257.1	C_unshiu_00040_mRNA_18.1	-	
GF0024318	1	1	0	Hypothetical protein (2)	integral component of membrane [GO:0005117 cellular_component] (2); transferase activity; transferring alkyl or aryl (other than methyl) group [GO:0016765 molecular function] (1); prenyltransferase activity [GO:0004659 molecular function] (1)	Ubiquitin transferase family [IPR000537] (2)	scaffold_9_mRNA_1255.1	C_unshiu_00193_mRNA_14.1	-	

ID	Num. in <i>C. clementiae</i>	Num. in <i>C. umshiu</i>	Num. in <i>P. trifoliae</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliae</i>
GF0024317	1	1	0	Hypothetical protein (1); Nucleic acid binding protein, putative (1)	nucleic acid binding [GO:0003676] molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2); TRB/DP1/HV422-related protein [IPR004345] (1); Plant self-incompatibility S1 [IPR010264] (2); DnaJ domain [IPR001623] (2); DnaJ domain, glutamine side [IPR018253] (2); Class I glutamyltransferase-like [IPR029662] (2); Glutaminyl-aminotransferase [IPR017926] (2)	scaffold_9_mRNA_1254.1	C_umshiu_00193_mRNA_16.1	-
GF0024316	1	1	0	Hypothetical protein (2)	-	-	-	-	-
GF0024315	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270] molecular function] (2); nucleic acid binding [GO:0003676] molecular function] (2)	Zinc finger, CCHC-type [IPR001878] (2) scaffold_9_mRNA_1247.1	scaffold_9_mRNA_1249.1	C_umshiu_00193_mRNA_22.1	-
GF0024314	1	1	0	Retrotransposon protein, putative, Ty1-copia subclass (2)	-	-	-	-	-
GF0024313	1	1	0	Hypothetical protein (2)	-	-	-	-	-
GF0024312	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676] molecular function] (1); zinc ion binding [GO:0008270] molecular function] (1)	Domain of unknown function DUF4219 [IPR025314] (2); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_9_mRNA_1240.1	C_umshiu_00634_mRNA_17.1	-
GF0024311	1	1	0	Cytokinin riboside 5'-monophosphate phosphotriphosphodiesterase (2)	-	-	-	-	-
GF0024310	1	1	0	Hypothetical protein (2)	-	-	-	-	-
GF0024309	1	1	0	Hypothetical protein (2)	-	Mitochondrial substrate/solute carrier [IPR018108] (2); Mitochondrial carrier domain [IPR023395] (2)	scaffold_9_mRNA_1219.1	C_umshiu_00112_mRNA_44.1	-
GF0024308	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_1218.1	C_umshiu_00112_mRNA_43.1	-
GF0024307	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508] biological process] (2); cysteine-type peptidase activity [GO:0008234] molecular function] (2)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (2)	scaffold_9_mRNA_1214.1	C_umshiu_00112_mRNA_41.1	-
GF0024306	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_1213.1	C_umshiu_00112_mRNA_40.1	-
GF0024305	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_1212.1	C_umshiu_00112_mRNA_39.1	-
GF0024304	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_1211.1	C_umshiu_00112_mRNA_38.1	-
GF0024303	1	1	0	Isoleucine N-monoxygenase 2 (2)	oxidation-reduction process [GO:005114] biological process] (2); oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705] molecular function] (2); heme binding [GO:0020037] molecular function] (2); iron ion binding [GO:0005506] molecular function] (2)	Cytochrome P450, heme-thiolate group I [IPR002401] (2); Cytochrome P450, monooxygenase site [IPR017972] (2); Cytochrome P450 [IPR001128] (2)	scaffold_9_mRNA_1205.1	C_umshiu_00112_mRNA_32.1	-
GF0024302	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_1194.1	C_umshiu_00112_mRNA_16.1	-
GF0024301	1	1	0	Hypothetical protein (2)	-	F-box domain [IPR001810] (2)	scaffold_9_mRNA_1191.1	C_umshiu_00112_mRNA_9.1	-
GF0024300	1	1	0	Ankyrin repeat family protein, putative (2)	response to salicylic acid stimulus [GO:0071446] biological process] (1); regulation of salicylic acid mediated signaling pathway [GO:2000031] biological process] (1); regulation of defense response [GO:0031347] biological process] (1)	Ankyrin repeat [IPR002110] (2); Ankyrin repeat-containing domain [IPR020683] (2); PGG domain [IPR026901] (2); Protein accelerated cell death 6 [IPR032846] (1)	scaffold_9_mRNA_1184.1	C_umshiu_00112_mRNA_4.1	-
GF0024299	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_1175.1	C_umshiu_00334_mRNA_35.1	-
GF0024298	1	1	0	E3 ubiquitin-protein ligase mind-bomb (2)	protein binding [GO:000515] molecular function] (2); cellular response to salicylic acid stimulus [GO:0071446] biological process] (1); integral component of membrane [GO:0016021] cellular component] (1); cellular response to salicylic acid stimulus [GO:0071446] biological process] (1); regulation of salicylic acid mediated signaling pathway [GO:2000031] biological process] (1); regulation of defense response [GO:0031347] biological process] (1)	Ankyrin repeat [IPR002110] (2); Ankyrin repeat-containing domain [IPR020683] (2); Protein accelerated cell death 6 [IPR032846] (1)	scaffold_9_mRNA_1174.1	C_umshiu_00334_mRNA_34.1	-
GF0024297	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676] molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_9_mRNA_1170.1	C_umshiu_00334_mRNA_30.1	-
GF0024296	1	1	0	Hypothetical protein (2)	protein binding [GO:000515] molecular function] (2); integral component of membrane [GO:0016021] cellular component] (1); cellular response to salicylic acid stimulus [GO:0071446] biological process] (1); regulation of defense response [GO:0031347] biological process] (1); regulation of salicylic acid mediated signaling pathway [GO:2000031] biological process] (1)	Ankyrin repeat [IPR002110] (2); Ankyrin repeat-containing domain [IPR020683] (2); Endonuclease/exonuclease/phosphatase [IPR005135] (1); Protein accelerated cell death 6 [IPR032846] (1)	scaffold_9_mRNA_1169.1	C_umshiu_00334_mRNA_29.1	-
GF0024295	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_116.1	C_umshiu_00007_mRNA_71.1	-
GF0024294	1	1	0	Putative peptide transporter, Protein NRT1/ PTR FAMILY 5.6 (2)	transporter activity [GO:0005215] molecular function] (2); transport [GO:0006508] biological process] (2); membrane [GO:0016020] cellular component] (2)	Proton-dependent oligopeptide transporter family [IPR000109] (2)	scaffold_9_mRNA_1158.1	C_umshiu_00334_mRNA_24.1	-
GF0024290	1	1	0	Hypothetical protein (2)	protein binding [GO:000515] molecular function] (2)	Thioredoxin-like fold [IPR012336] (2); Glutathione S-transferase, N-terminal [IPR004045] (2); Glutathione S-transferase, C-terminal-like [IPR010987] (1); Glutathione S-transferase, C-terminal [IPR004046] (2); Glutathione S-transferase, C-terminal-like [IPR010987] (2)	scaffold_9_mRNA_1117.1	C_umshiu_00334_mRNA_7.1	-
GF0024289	1	1	0	Glutathione S-transferase tau 7, putative (2)	-	Glutathione S-transferase, N-terminal [IPR004045] (2); Glutathione S-transferase, C-terminal-like [IPR010987] (2); Thioredoxin-like fold [IPR012336] (2); Glutathione S-transferase, C-terminal [IPR004046] (2)	scaffold_9_mRNA_1116.1	C_umshiu_00017_mRNA_5.1	-
GF0024288	1	1	0	Tau class glutathione S-transferase (2)	protein binding [GO:000515] molecular function] (2)	Glutathione S-transferase, N-terminal [IPR004045] (2); Glutathione S-transferase, C-terminal-like [IPR010987] (2); Thioredoxin-like fold [IPR012336] (2); Glutathione S-transferase, C-terminal [IPR004046] (2)	scaffold_9_mRNA_1102.1	C_umshiu_00721_mRNA_1.1	-
GF0024287	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_11.1	C_umshiu_00007_mRNA_17.1	-
GF0024286	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_1081.1	C_umshiu_00063_mRNA_62.1	-
GF0024285	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_1077.1	C_umshiu_00063_mRNA_59.1	-
GF0024284	1	1	0	BED zinc finger, hAT family dimerization domain (2)	DNA binding [GO:0003677] molecular function] (2); nucleic acid binding [GO:0003676] molecular function] (2); protein dimerization activity [GO:0046983] molecular function] (2)	HAT, C-terminal dimerisation domain [IPR008906] (2); Ribonuclease H-like domain [IPR012337] (2); hAT-like transposase, RNase-H fold [IPR025525] (2)	scaffold_9_mRNA_1075.1	C_umshiu_00063_mRNA_57.1	-
GF0024283	1	1	0	Hypothetical protein (2)	protein binding [GO:000515] molecular function] (2); some-type peptidase activity [GO:0008236] molecular function] (2); proteolysis [GO:0006508] biological process] (2); ammonium transport [GO:0015696] biological process] (1); membrane [GO:0016020] cellular component] (2); ammonium transmembrane transport [GO:0072488] biological process] (2); ammonium transmembrane transport activity [GO:0008519] molecular function] (2)	Reverse transcriptase zinc-binding domain [IPR026960] (2); HAT, C-terminal dimerisation domain [IPR008906] (2); Ribonuclease H-like domain [IPR012337] (2); hAT-like transposase, RNase-H fold [IPR025525] (2); ClpP/crotonase-like domain [IPR029045] (2)	scaffold_9_mRNA_1074.1	C_umshiu_00063_mRNA_56.1	-
GF0024282	1	1	0	Peptidase S41 family protein (2)	-	-	scaffold_9_mRNA_1071.1	C_umshiu_00063_mRNA_53.1	-
GF0024281	1	1	0	Ammonium transporter (2)	-	Ammonium transporter, Anti-B-like domain [IPR024041] (2); Ammonium transporter, conserved site [IPR018047] (2); Ammonium transporter [IPR019015] (2); Ammonium/urea transporter [IPR029020] (1)	scaffold_9_mRNA_1070.1	C_umshiu_00063_mRNA_52.1	-
GF0024278	1	1	0	Hypothetical protein (2)	-	Gag-polypeptide of LTR copia-type [IPR029472] (1)	scaffold_9_mRNA_1055.1	C_umshiu_00063_mRNA_43.1	-
GF0024277	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_1052.1	C_umshiu_00063_mRNA_38.1	-
GF0024275	1	1	0	Glycerol kinase (2)	-	-	scaffold_9_mRNA_1036.1	C_umshiu_00063_mRNA_22.1	-
GF0024274	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_1025.1	C_umshiu_00161_mRNA_6.1	-
GF0024273	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676] molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_9_mRNA_1020.1	C_umshiu_00161_mRNA_11.1	-
GF0024272	1	1	0	Hypothetical protein (2)	catalytic activity [GO:0003854] molecular function] (2); thiamine pyrophosphate binding [GO:0030976] molecular function] (2)	Thiamine pyrophosphate-binding fold [IPR029061] (2); Thiamine pyrophosphate enzyme C-terminal TPP-binding [IPR017961] (2)	scaffold_9_mRNA_1002.1	C_umshiu_00161_mRNA_25.1	-
GF0024271	1	1	0	Hypothetical protein (2)	-	-	scaffold_9_mRNA_1.1	C_umshiu_00309_mRNA_26.1	-
GF0024270	1	1	0	Superfamily protein, putative (1); Pentapeptide (PPR) repeat protein (1)	Pentapeptide-peptide repeat [IPR002885] (2)	scaffold_8_mRNA_994.1	C_umshiu_000778_mRNA_11.1	-	
GF0024268	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0046983] molecular function] (1)	HAT, C-terminal dimerisation domain [IPR008906] (1)	scaffold_8_mRNA_983.1	C_umshiu_00845_mRNA_9.1	-
GF0024266	1	1	0	Altered inheritance of mitochondria 23, mitochondrial (2)	-	-	scaffold_8_mRNA_971.1	C_umshiu_00624_mRNA_10.1	-
GF0024265	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_967.1	C_umshiu_01451_mRNA_5.1	-
GF0024262	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_929.1	C_umshiu_00117_mRNA_75.1	-
GF0024261	1	1	0	Hypothetical protein (1); Retrotransposon protein, putative, unclassified (1)	nucleic acid binding [GO:0003676] molecular function] (1)	Ribonuclease H-like domain [IPR012337] (1)	scaffold_8_mRNA_912.1	C_umshiu_00220_mRNA_15.1	-

ID	Num in <i>C. clementiae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0024260	1	1	0	DNA replication licensing factor MCN4 (2)	ATP binding [GO:0005524] molecular_function [2]; DNA binding [GO:0005677 molecular_function] (2); DNA replication initiation [GO:0006270] [GO:0042421 cellular_process] (2); MCM complex biological_process [2]; DNA helicase activity [GO:0005678] molecular_function [2]	MCM N-terminal domain [IPR027925] (2); Nucleic acid-binding OB-fold [IPR012340] (2); Mini-chromosome maintenance protein [IPR031327] (2); Mini-chromosome maintenance complex protein 4 [IPR018517] (2); MCM domain [IPR018518] (2); P-loop nucleic-acid binding [IPR027217] (2); Mini-chromosome maintenance, conserved site [IPR018525] (2); MCM OB domain [IPR033762] (1); Rubredoxin-type fold [IPR004039] (1)	scaffold_8_mRNA_911.1	C_unshiu_00220_mRNA_14.1	-
GF0024259	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0005526] molecular_function [1]; protein dimerization activity [GO:0046983] molecular_function [1]	Ribonuclease H-like domain [IPR012337] (1); HAT, C-terminal dimerisation domain [IPR008896] (1)	scaffold_8_mRNA_906.1	C_unshiu_01161_mRNA_6.1	-
GF0024258	1	1	0	Hypothetical protein (2)	cysteine-type peptidase activity [GO:0008234 molecular_function] (2)	Peptidase C1A [IPR013128] (2); Cathepsin proteopeptide inhibitor domain (29) [IPR013201] (2)	scaffold_8_mRNA_904.1	C_unshiu_01161_mRNA_7.1	-
GF0024257	1	1	0	Hypothetical protein (2)	Penicillipeptidase repeat protein [2]	Penicillipeptidase repeat [IPR002885] (2); Tetrapeptide-like helical domain [IPR011990] (2)	scaffold_8_mRNA_903.1	C_unshiu_01161_mRNA_8.1	-
GF0024256	1	1	0	Penicillipeptidase (PPR) repeat protein [2]	protein binding [GO:0005515] molecular_function [2]	Penicillipeptidase repeat [IPR002885] (2); Tetrapeptide-like helical domain [IPR011990] (2)	scaffold_8_mRNA_894.1	C_unshiu_00874_mRNA_2.1	-
GF0024255	1	1	0	Tetratricopeptide repeat (TPR)-like superfamily protein, putative (2)	hydrolase activity, acting on ester bonds [GO:0016788 molecular_function] (2)	Penicillipeptidase repeat [IPR002885] (2); scaffold_8_mRNA_889.1	GDSL lipase/esterase [IPR001087] (2); SGNL hydrolase-type esterase domain [IPR013530] (2)	C_unshiu_00125_mRNA_3.1	-
GF0024253	1	1	0	GDSL esterase/lipase APG (2)	Verticillium wilt resistance-like protein [2]; Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat, typical subtype [IPR005591] (2); Leucine-rich repeat [IPR001611] (2)	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat, typical subtype [IPR005591] (2); Leucine-rich repeat [IPR001611] (2)	scaffold_8_mRNA_87.1	C_unshiu_00041_mRNA_26.1	-
GF0024252	1	1	0	Patative verticillium wilt disease resistance protein (1)	protein binding [GO:0005515] molecular_function [2]	AAA-type ATPase domain [IPR003593] (2); AAA-type, conserved site [IPR003595] (2); AAA-type ATPase, N-terminal domain [IPR025753] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); ATPase, AAA-type, conserved site [IPR003960] (1)	scaffold_8_mRNA_864.1	C_unshiu_00060_mRNA_5.2.1	-
GF0024251	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524] molecular_function [2]	Aspartate kinase domain [IPR003593] (2); Defensin, plant [IPR008176] (1); Reverse transcriptase zinc-binding domain [IPR026960] (2); Nm23-like domain [IPR008030] (2); NAD(P)-binding domain [IPR016040] (2)	scaffold_8_mRNA_862.1	C_unshiu_00637_mRNA_3.1	-
GF0024249	1	1	0	Patative mitochondrial chaperone BCS1- B (2)	defense response [GO:0006952] biological_process [2]	Pectinesterase, catalytic [IPR000070] (2); Pectin lyase fold [IPR012334] (2); Pectin lyase fold/virulence factor [IPR011050] (2)	scaffold_8_mRNA_839.1	C_unshiu_00815_mRNA_5.1	-
GF0024248	1	1	0	Hypothetical protein (2)	Probable pectinesterase 68 (1); Pectinesterase 31 (1)	Pectinesterase, catalytic [IPR000070] (2); Pectin lyase fold [IPR012334] (2); Pectin lyase fold/virulence factor [IPR011050] (2)	scaffold_8_mRNA_827.1	C_unshiu_01879_mRNA_3.1	-
GF0024246	1	1	0	Hypothetical protein (2)	Isoflavone reductase family protein (1); Hypothetical protein (1)	ATP binding [GO:0005524] molecular_function [1]; ATPase activity [GO:0016887 molecular_function] (1)	scaffold_8_mRNA_818.1	C_unshiu_01879_mRNA_1.1	-
GF0024245	1	1	0	Hypothetical protein (2)	cell wall modification [GO:0042454] biological_process [2]; cell wall [GO:000518 molecular_component] (2); pectinesterase activity [GO:0030599] molecular_function [2]	Pectinesterase, catalytic [IPR000070] (2); Pectin lyase fold [IPR012334] (2); Pectin lyase fold/virulence factor [IPR011050] (2)	scaffold_8_mRNA_809.1	C_unshiu_00511_mRNA_5.1	-
GF0024244	1	1	0	Probable pectinesterase 68 (1); Pectinesterase 31 (1)	Retrotansposon gag domain [IPR005162] (2)	Retrotansposon gag domain [IPR005162] (2)	scaffold_8_mRNA_798.1	C_unshiu_02198_mRNA_3.1	-
GF0024243	1	1	0	Hypothetical protein (2)	Hydrolase activity, acting on ester bonds [GO:0016788 molecular_function] (2)	Penicillipeptidase repeat [IPR002885] (2); Tetrapeptide-like helical domain [IPR011990] (1)	scaffold_8_mRNA_790.1	C_unshiu_02286_mRNA_3.1	-
GF0024242	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515] molecular_function [1]	ATP binding [GO:0005524] molecular_function [1]; ABC transporter activity [GO:0016887 molecular_function] (1)	scaffold_8_mRNA_781.1	C_unshiu_00444_mRNA_21.1	-
GF0024240	1	1	0	Hypothetical protein (2)	Ulp1 protease family, C-terminal protease domain [IPR003623] (1); Organelle-specific protein [IPR024891] (1)	Ulp1 protease family, C-terminal protease domain [IPR003623] (1); Organelle-specific protein [IPR024891] (1)	scaffold_8_mRNA_747.1	C_unshiu_00438_mRNA_4.1	-
GF0024238	1	1	0	Hypothetical protein (2)	Organ specific protein [IPR002449] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2); Ribonuclease H-like domain [IPR012337] (1)	Organ specific protein [IPR002449] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2); Ribonuclease H-like domain [IPR012337] (1)	scaffold_8_mRNA_776.1	C_unshiu_00362_mRNA_20.1	-
GF0024237	1	1	0	Hypothetical protein (2)	cysteine-type peptidase activity [GO:0008234 molecular_function] (1); proteolytic activity [GO:0006508 biological_process] (1)	scf0018_mRNA_760.1	C_unshiu_02149_mRNA_1.1	-	
GF0024235	1	1	0	Hypothetical protein (2)	Ulp1 protease family, C-terminal protease domain [IPR003623] (1); Organelle-specific protein [IPR024891] (1)	Ulp1 protease family, C-terminal protease domain [IPR003623] (1); Organelle-specific protein [IPR024891] (1)	scaffold_8_mRNA_747.1	C_unshiu_00438_mRNA_4.1	-
GF0024234	1	1	0	Hypothetical protein (2)	Organ specific protein [IPR002449] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2); Ribonuclease H-like domain [IPR012337] (1)	Organ specific protein [IPR002449] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2); Ribonuclease H-like domain [IPR012337] (1)	scaffold_8_mRNA_745.1	C_unshiu_01007_mRNA_1.1	-
GF0024233	1	1	0	Polymaltooligosaccharide lyase, Ribonuclease H-like superfamily protein (1)	cell wall modification [GO:0042454] biological_process [2]; metabolic process [GO:000152]	Organ specific protein [IPR002449] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2); Ribonuclease H-like domain [IPR012337] (1)	scaffold_8_mRNA_744.1	C_unshiu_02999_mRNA_2.1	-
GF0024232	1	1	0	Hypothetical protein (2)	transferring hexosyl transferase activity [GO:0016758] biological_process [2]	scf0018_mRNA_743.1	C_unshiu_02999_mRNA_1.1	-	
GF0024231	1	1	0	Hypothetical protein (2)	transferring hexosyl transferase activity [GO:0016758] biological_process [2]	scf0018_mRNA_733.1	C_unshiu_01713_mRNA_8.1	-	
GF0024228	1	1	0	UDP-glycosyltransferase 8A1 (2)	UDP-glucuronosyltransferase [IPR002213] (2)	scaffold_8_mRNA_70.1	C_unshiu_00041_mRNA_12.1	-	
GF0024226	1	1	0	Hypothetical protein (1); DUF241 domain protein (1)	Protein of unknown function DUF241, plant [IPR004320] (2)	scaffold_8_mRNA_69.1	C_unshiu_00041_mRNA_11.1	-	
GF0024225	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2); DNA integration [GO:0015074 biological_process] (2)	GAG-pre-integrase domain [IPR025724] (2); Ribonuclease H-like domain [IPR012337] (2); Integrase, catalytic core [IPR001384] (2)	scaffold_8_mRNA_687.1	C_unshiu_00140_mRNA_27.1	-
GF0024223	1	1	0	Hypothetical protein (2)	cytochrome b6/f complex subunit 2 (2); cellular_component [2]	PerM of cytochrome b6/f complex subunit 7 [IPR012595] (2)	scaffold_8_mRNA_661.1	C_unshiu_01175_mRNA_8.1	-
GF0024221	1	1	0	Cytochrome b6/f complex subunit 2 (2)	B3 domain binding [IPR003340] (2); B3A-binding pseudoredundant domain [IPR015300] (2)	B3 domain binding [IPR003340] (2); B3A-binding pseudoredundant domain [IPR015300] (2)	scaffold_8_mRNA_639.1	C_unshiu_00560_mRNA_11.1	-
GF0024220	1	1	0	B3 domain-containing transcription factor VRN1 (2)	scf0018_mRNA_628.1	C_unshiu_00630_mRNA_5.1	-		
GF0024218	1	1	0	Hypothetical protein (2)	transferring hexosyl transferase activity [GO:0016758] biological_process [2]	scaffold_8_mRNA_619.1	C_unshiu_00308_mRNA_10.1	-	
GF0024217	1	1	0	2'-deoxoglucosidase (2G) and F6'P-dependent oxygenase superfamily protein (2)	oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction activity [GO:0055114 molecular_function] (2); non-redox binding [GO:0005506 molecular_function] (1)	2'-deoxoglucosidase (2G) and F6'P-dependent oxygenase superfamily protein (2)	scaffold_8_mRNA_616.1	C_unshiu_00308_mRNA_13.1	-
GF0024216	1	1	0	Putative inactive receptor kinase (2)	ATP binding [GO:0005524] molecular_function [2]; protein phosphorylation [GO:0006468 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2)	Protein kinase domain [IPR000719] (2); Protein kinase-like domain [IPR011009] (2); Serine-threonine-tyrosine-protein kinase, catalytic domain [IPR001245] (1); Serine-threonine-tyrosine-protein kinase catalytic domain [IPR001245] (1)	scaffold_8_mRNA_606.1	C_unshiu_00630_mRNA_15.1	-
GF0024215	1	1	0	Hypothetical protein (2)	scf0018_mRNA_605.1	C_unshiu_01911_mRNA_4.1	-		
GF0024214	1	1	0	Hypothetical protein (2)	scf0018_mRNA_602.1	C_unshiu_00589_mRNA_17.1	-		
GF0024213	1	1	0	Hypothetical protein (1); Sorting nexin carboxy-terminal protein (1)	Sorting nexin, C-terminal [IPR013937] (1); Zinc finger, SWIM-type [IPR007527] (1); Zinc finger, PMZ-type [IPR006564] (1); Zinc finger, CHC-type [IPR001878] (1); Phox-associated domain [IPR003114] (1)	scf0018_mRNA_598.1	C_unshiu_00589_mRNA_16.1	-	
GF0024212	1	1	0	Hypothetical protein (2)	Zinc ion binding [GO:0008270 molecular_function] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	scf0018_mRNA_587.1	C_unshiu_00015_mRNA_5.1	-	
GF0024211	1	1	0	Hypothetical protein (2)	scf0018_mRNA_582.1	C_unshiu_01091_mRNA_2.1	-		
GF0024210	1	1	0	Transferase, ribonuclease H-like superfamily protein (1)	nucleic acid binding [GO:0003676 molecular_function] (2); nucleic acid processing [GO:0008012 molecular_function] (2); biological_process [2]	Ribonuclease H-like domain [IPR012337] (2)	scaffold_8_mRNA_578.1	C_unshiu_01293_mRNA_6.1	-
GF0024208	1	1	0	CXE carboxylesterase (2)	hydrolyase activity [GO:0016787 molecular_function] (2); hydrolyase activity [GO:0001678 molecular_function] (2)	Alpha/Beta hydrolase fold [IPR029058] (2); Alpha/Beta hydrolase fold-3 [IPR030942] (2)	scaffold_8_mRNA_563.1	C_unshiu_00736_mRNA_8.1	-
GF0024206	1	1	0	Putative carboxylesterase 2 (2)	hydrolyase activity [GO:0016787 molecular_function] (2); hydrolyase activity [GO:0001678 molecular_function] (2); metabolic process [GO:0001522 molecular_function] (2); biological_process [2]	Alpha/Beta hydrolase fold [IPR029058] (2); Alpha/Beta hydrolase fold-3 [IPR030942] (2)	scaffold_8_mRNA_559.1	C_unshiu_00736_mRNA_4.1	-
GF0024205	1	1	0	Hypothetical protein (2)	hydrolyase activity [GO:0016787 molecular_function] (2); metabolic process [GO:0001522 molecular_function] (2); biological_process [2]	Alpha/Beta hydrolase fold-3 [IPR013094] (2); Alpha/Beta hydrolase fold [IPR029058] (2)	scaffold_8_mRNA_556.1	C_unshiu_01210_mRNA_1.1	-
GF0024204	1	1	0	Hypothetical protein (2)	metanone process [GO:0008012 molecular_function] (2); biological_process [2]	Alpha/Beta hydrolase fold [IPR029058] (2)	scaffold_8_mRNA_554.1	C_unshiu_01210_mRNA_3.1	-
GF0024203	1	1	0	Hypothetical protein (2)	metanone process [GO:0008012 molecular_function] (2); biological_process [2]	Alpha/Beta hydrolase fold-3 [IPR013094] (2); Alpha/Beta hydrolase fold [IPR029058] (2)	scaffold_8_mRNA_553.1	C_unshiu_01210_mRNA_4.1	-
GF0024202	1	1	0	Hypothetical protein (2)	metanone process [GO:0008012 molecular_function] (2); biological_process [2]	Reverse transcriptase zinc-binding domain [IPR026960] (1)	scaffold_8_mRNA_550.1	C_unshiu_01210_mRNA_9.1	-
GF0024201	1	1	0	Hypothetical protein (2)	metanone process [GO:0008012 molecular_function] (2); biological_process [2]	Alpha/beta hydrolase fold-3 [IPR013094] (2); Alpha/Beta hydrolase fold [IPR029058] (2)	scaffold_8_mRNA_544.1	C_unshiu_02219_mRNA_1.1	-
GF0024200	1	1	0	Hypothetical protein (2)	metanone process [GO:0008012 molecular_function] (2); biological_process [2]	Alpha/beta hydrolase fold-3 [IPR013094] (2); Alpha/Beta hydrolase fold [IPR029058] (2)	scaffold_8_mRNA_536.1	C_unshiu_02622_mRNA_5.1	-
GF0024199	1	1	0	Hypothetical protein (2)	metal ion binding [GO:0046872 molecular_function] (2); catalytic activity [GO:003824 molecular_function] (2)	DNA transcription, RNA-dependent DNA transcription [IPR013103] (1); Metalloenzymes, LuxM/M16-C-terminal-like [IPR011249] (2); Peptidase M16, C-terminal [IPR007863] (2); Peptidase M16, N-terminal [IPR011765] (2); Peptidase M16 domain [IPR01237] (1)	scaffold_8_mRNA_523.1	C_unshiu_01576_mRNA_9.1	-
GF0024198	1	1	0	Hypothetical protein (2)	serine-type endopeptidase activity [GO:000252 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Peptidase S8, subtilisin, Serine-active site [IPR023825] (2); Peptidase S8, subtilisin-like domain [IPR002091] (2); Peptidase S8, subtilisin-related [IPR015500] (1)	scaffold_8_mRNA_521.1	C_unshiu_02622_mRNA_3.1	-
GF0024195	1	1	0	Hypothetical protein (2)	serine-type endopeptidase activity [GO:000252 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Peptidase S8, subtilisin, Serine-active site [IPR023825] (2); Peptidase S8, subtilisin-like domain [IPR002091] (2); Peptidase S8, subtilisin-related [IPR015500] (1)	scaffold_8_mRNA_497.1	C_unshiu_01315_mRNA_3.1	-
GF0024194	1	1	0	Hypothetical protein (2)	serine-type endopeptidase activity [GO:000252 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Peptidase S8, subtilisin, Serine-active site [IPR023825] (2); Peptidase S8, subtilisin-like domain [IPR002091] (2); Peptidase S8, subtilisin-related [IPR015500] (1)	scaffold_8_mRNA_491.1	C_unshiu_00646_mRNA_3.1	-
GF0024193	1	1	0	Subtilisin-like serine protease (2)	serine-type endopeptidase activity [GO:000252 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Peptidase S8, subtilisin, Serine-active site [IPR023825] (2); Peptidase S8, subtilisin-related [IPR015500] (1)	scaffold_8_mRNA_481.1	C_unshiu_00827_mRNA_12.1	-
GF0024192	1	1	0	Hypothetical protein (2)	serine-type endopeptidase activity [GO:000252 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Peptidase S8, subtilisin, Serine-active site [IPR023825] (2); Peptidase S8, subtilisin-related [IPR015500] (1)	scaffold_8_mRNA_479.1	C_unshiu_00827_mRNA_14.1	-

ID	Num. in <i>C. clementine</i>	Num. in <i>C. umshiu</i>	Num. in <i>P. trifoliae</i>	Note	GO	InterPro	Members in <i>Clementine</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliae</i>
GF0024190	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_476.1	C_umshiu_00827_mRNA_16.1	-
GF0024188	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_469.1	C_umshiu_00152_mRNA_4.1	-
GF0024187	1	1	0	Putative nuclease HARB11 (2)			scaffold_8_mRNA_463.1	C_umshiu_00152_mRNA_10.1	-
GF0024185	1	1	0	Pentatricopeptide (PPR) repeat protein (2)	protein binding [GO:0005515 molecular_function] (1)		scaffold_8_mRNA_451.1	C_umshiu_00152_mRNA_23.1	-
GF0024182	1	1	0	Cyclin D (2)	nucleus [GO:0005634 cellular_component] (2)		scaffold_8_mRNA_436.1	C_umshiu_00152_mRNA_35.1	-
GF0024180	1	1	0	Phosphoglycerate dehydrogenase (2)	metabolic process [GO:0008152 biological_process] (2); L-serine biosynthetic process [GO:0006564 biological_process] (2); amino acid binding [GO:0016597 molecular_function] (2); phosphoglycerate dehydrogenase activity [GO:0004617 molecular_function] (2); oxidation-reduction process [GO:0051146 molecular_function] (2); oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADL as acceptor [GO:0016616 molecular_function] (2); NAD binding [GO:0051287 molecular_function] (2)	D-isomer specific 2-hydroxyacid dehydrogenase domain [IPR029751]; NADP-binding domain [IPR016040]; Allotetic substrate binding domain [IPR029009]; D-3-hydroxyacyl-CoA dehydrogenase domain [IPR016026]; D-isomer specific 2-hydroxyacid dehydrogenase, NAD-binding domain [IPR006140]; ACT domain [IPR002912]; D-isomer specific 2-hydroxyacid dehydrogenase domain [IPR006141]; NAD-binding domain converted site [IPR029752]	scaffold_8_mRNA_421.1	C_umshiu_00152_mRNA_44.1	-
GF0024179	1	1	0	Hypothetical protein (2)	transcription elongation from RNA polymerase II promoter [GO:0006368 biological_process] (2); histone modification [GO:0016575 biological_process] (2); Cdc73/Paf1 complex [GO:0016593 cellular_component] (2); DNA binding [GO:0005677 molecular_function] (2); DNA-templated transcription, initiation [GO:0006352 biological_process] (1); nucleus [GO:0005634 cellular_component] (1)		scaffold_8_mRNA_408.1	C_umshiu_00152_mRNA_56.1	-
GF0024176	1	1	0	RNA polymerase-associated protein RTF1 like (2)		Plus-3 domain [IPR004343] (2); RNA polymerase-associated protein Rtf1 [IPR031102] (2); Plus-3 domain, subgroup [IPR018144] (1)	scaffold_8_mRNA_391.1	C_umshiu_00363_mRNA_16.1	-
GF0024175	1	1	0	F-box protein interaction domain protein (2)	protein binding [GO:0005515 molecular_function] (2)	F-box domain [IPR001810] (2); F-box associated interaction domain [IPR017451] (2); F-box associated domain, type I [IPR006527] (1)	scaffold_8_mRNA_388.1	C_umshiu_00363_mRNA_19.1	-
GF0024174	1	1	0	Carboxy-terminal domain cyclin (2)	nucleus [GO:0005634 cellular_component] (2)	Cyclin, N-terminal [IPR006671] (2); Cyclin, C-terminal domain [IPR006672] (2); Cyclin A, plant [IPR025971] (1)	scaffold_8_mRNA_378.1	C_umshiu_00363_mRNA_30.1	-
GF0024173	1	1	0	Vignain (2)	cysteine-type peptidase activity [GO:0008234 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Cysteine peptidase, active site [IPR025660] (2); Peptidase C1A [IPR013128] (2); Peptidase C1A, papain-like [IPR006668] (2); Cysteine peptidase [IPR025661] (2); Cathepsin peptidase inhibitor domain [IPR013201] (1)	scaffold_8_mRNA_376.1	C_umshiu_00363_mRNA_32.1	-
GF0024172	1	1	0	Class II metallothionein-like protein 1A (2)	zinc ion binding [GO:0008270 molecular_function] (2)	Plant EC metallothionein-like protein, family 1B [IPR003116] (2)	scaffold_8_mRNA_37.1	C_umshiu_00376_mRNA_12.1	-
GF0024170	1	1	0	SWIB complex BAf60b-domain-containing family protein (2)	protein binding [GO:0005515 molecular_function] (2)	SWIB/MDM2 domain [IPR003121] (2); SWIB domain [IPR019835] (2)	scaffold_8_mRNA_365.1	C_umshiu_00024_mRNA_8.1	-
GF0024168	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_36.1	C_umshiu_00376_mRNA_13.1	-
GF0024167	1	1	0	Somatic embryogenesis receptor kinase 1 (2)	transmembrane receptor protein kinase activity [GO:0010199 molecular_function] (1)	Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); Leucine-rich repeat, L-domain-like [IPR032675] (2); Somatic embryogenesis receptor-like kinase [IPR031048] (1)	scaffold_8_mRNA_356.2	C_umshiu_00024_mRNA_15.1	-
GF0024166	1	1	0	Amino acid permease family protein (2)	amino acid transmembrane transporter activity [GO:0015177 molecular_function] (2); amino acid transmembrane transport [GO:0000333 biological_process] (2); membrane [GO:0016020 cellular_component] (2)	Amino acid/polypeptide transporter I [IPR002293] (2)	scaffold_8_mRNA_351.1	C_umshiu_00024_mRNA_18.1	-
GF0024160	1	1	0	High chlorophyll fluorescence phenotype 173 protein (2)		Galactose-binding domain-like [IPR001791] (2); NAD(P)-binding domain [IPR001792] (2); NAD(P)H:ubiquinone oxidoreductase intermediate-associated protein 30 [IPR013857] (2); Nra1-like domain [IPR008030] (1)	scaffold_8_mRNA_3245.1	C_umshiu_00211_mRNA_24.1	-
GF0024158	1	1	0	Laccase (2)	lignin catabolic process [GO:0046274 biological_process] (2); oxidoreductase activity [GO:00052716 molecular_function] (2); cytochrome P450 monooxygenase [GO:0005114 biological_process] (2); oxidoreductase activity [GO:005114 biological_process] (2); cytochrome P450 monooxygenase [GO:0005114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); cytochrome P450 monooxygenase [GO:0048046 cellular_component] (2); copper ion binding [GO:0005507 molecular_function] (2)	Multicopper oxidase, copper-binding site [IPR02355] (2); Multicopper oxidase, type 3 [IPR011707] (2); Multicopper oxidase, type 1 [IPR011708] (2); Laccase [IPR017761] (2); Laccase [IPR013766] (2)	scaffold_8_mRNA_3227.1	C_umshiu_00271_mRNA_23.1	-
GF0024156	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_320.1	C_umshiu_00024_mRNA_45.1	-
GF0024155	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_3191.1	C_umshiu_00021_mRNA_110.1	-
GF0024151	1	1	0	Hypothetical protein (2)		UDP-glucuronyl:UDP-glucosyltransferase [IPR002213] (2)	scaffold_8_mRNA_3149.1	C_umshiu_00021_mRNA_70.1	-
GF0024150	1	1	0	Transcription factor MYB98 (1); Hypothetical protein (1)	DNA binding [GO:0003677 molecular_function] (1)	SANT/Mb domain [IPR001005] (1); Mb domain [IPR017930] (1); Homeobox domain-like [IPR000057] (1)	scaffold_8_mRNA_3145.1	C_umshiu_00021_mRNA_66.1	-
GF0024149	1	1	0	Thioesterase superfamily protein (2)	proteolysis [GO:0006508 biological_process] (2); cysteine-type peptidase activity [GO:0008234 molecular_function] (2)	HorDog domain [IPR025069] (2); Thioesterase domain [IPR006683] (2)	scaffold_8_mRNA_3127.1	C_umshiu_00021_mRNA_49.1	-
GF0024148	1	1	0	Hypothetical protein (2)	Ulp1 protease family, C-terminal catalytic domain [IPR036353] (2)	scaffold_8_mRNA_3121.1	C_umshiu_00021_mRNA_43.1	-	
GF0024147	1	1	0	Putative sugar phosphate/phosphate translocator (2)	Sugar phosphate transporter domain [IPR004853] (2)	Sugar phosphate transporter domain [IPR004853] (2)	scaffold_8_mRNA_3114.1	C_umshiu_00021_mRNA_35.1	-
GF0024145	1	1	0	UDP-glucuronosyl/UDP-glucosyl transferase family protein (2)	metabolic process [GO:0008152 biological_process] (2); gene activity, transcribing hexose groups [GO:0016758 molecular_function] (2); iron ion binding [GO:0005506 molecular_function] (1); heme binding [GO:0005507 molecular_function] (1); oxidation-reduction process [GO:0055114 biological_process] (1); oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] (1)	UDP-glucuronyl: UDP-glucosyltransferase [IPR002213] (2); Cytochrome P450, 4C-class, group I [IPR002401] (1); Cytochrome P450 [IPR001128] (1)	scaffold_8_mRNA_3104.1	C_umshiu_00021_mRNA_24.1	-
GF0024144	1	1	0	Copper transporter (2)	copper ion binding [GO:0005375 molecular_function] (2)			C_umshiu_00117_mRNA_27.1	-
GF0024143	1	1	0	Cucumisin (1); Hypothetical protein (1)	serine-type endopeptidase activity [GO:0004252 molecular_function] (1); proteolysis [GO:0006508 molecular_function] (1); biological_process [1]	Peptidase S8, serine-peptidase inhibitor [IPR010239] (1); Peptidase S8/S3 domain [IPR000209] (1); Peptidase S8, subtilisin-related [IPR015500] (1)	scaffold_8_mRNA_3074.1	C_umshiu_00117_mRNA_38.1	-
GF0024142	1	1	0	DNA-directed RNA polymerase II non-catalytic subunit (2)	metabolic process [GO:0008152 biological_process] (2); gene activity, transcribing hexose groups [GO:0016758 molecular_function] (1); DNA-directed 5'-3' RNA polymerase activity [GO:0003899 molecular_function] (1)	S1 domain [IPR00329] (1); RNA polymerase RdP-N-terminal [IPR005576] (2); Nucleic-acid binding, OB-fold [IPR012340] (2)	scaffold_8_mRNA_3067.1	C_umshiu_00117_mRNA_48.1	-
GF0024141	1	1	0	Hypothetical protein (2)	metabolic process [GO:0008152 biological_process] (1); oxireductase activity [GO:0016491 molecular_function] (1)	NAD(P)-binding domain [IPR016040] (2); Short-chain dehydrogenase/reductase scaffold_8_mRNA_3055.1 SDR [IPR002198] (1)	scaffold_8_mRNA_3055.1	C_umshiu_00117_mRNA_59.1	-
GF0024140	1	1	0	Plastid transcriptionally active 16 (2)		NAD(P)-binding domain [IPR016040] (2); Nucleic-acid binding domain [IPR008030] (1)	scaffold_8_mRNA_3050.1	C_umshiu_00117_mRNA_62.1	-
GF0024139	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_3036.1	C_umshiu_00281_mRNA_43.1	-
GF0024138	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_3035.1	C_umshiu_02529_mRNA_5.1	-

ID	Num in <i>C. clementiae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0024135	1	1	0	Zinc transporter 1 (1); Hypothetical protein (1)	membrane [GO:0016020]; cellular component [2]; metal ion transmembrane transporter activity [GO:0046873 molecular function] [2]; metal ion transport [GO:0030001 biological process] [2]; transmembrane transporter [GO:000000000000000000]; biological process [1]; metabolic process [GO:0008152 biological process] [2]; hydrolase activity [GO:0016787 molecular function] [2]	Zinc/iron permease [IPR003689] (2)	scaffold_8_mRNA_3026.1	C_unshiu_00281_mRNA_34.1	-
GF0024134	1	1	0	Haloacid dehalogenase-like hydrolase (2)	metal ion binding [GO:0008152 biological process] [2]; hydrolase activity [GO:0016787 molecular function] [2]	HAD hydrolase, subfamily IA [IPR006439] (2); HAD-like domain [IPR023214] (2); Pyrimidine-5'-nucleotidase [IPR010237] (2)	scaffold_8_mRNA_3020.1	C_unshiu_00281_mRNA_27.1	-
GF0024133	1	1	0	Haloacid dehalogenase-like hydrolase (2)	metal ion binding [GO:0008152 biological process] [2]; hydrolase activity [GO:0016787 molecular function] [2]	HAD hydrolase, subfamily IA [IPR006439] (2); HAD-like domain [IPR023214] (2); Pyrimidine-5'-nucleotidase [IPR010237] (2)	scaffold_8_mRNA_3019.1	C_unshiu_00281_mRNA_26.2	-
GF0024132	1	1	0	Photosystem I reaction center subunit N (2)	Photosystem I reaction center subunit N [GO:0009522 cellular component] [2]; photosynthesis [GO:0015979 biological process] [2]	Photosystem I reaction centre subunit N, chlorophototrophic [IPR008790] (2)	scaffold_8_mRNA_301.1	C_unshiu_00024_mRNA_62.1	-
GF0024131	1	1	0	Hypothetical protein (2)	oxidation-reduction process [GO:0055194 biological process] [2]; oxidoreductase activity [GO:0016491 molecular function] [2]; regulation of transcription, DNA-templated [GO:0006355 biological process] [1]; nucleic acid binding [GO:0003676 molecular function] [2]; zinc ion binding [GO:0008270 molecular function] [1]	aldehyde oxidoreductase [IPR006439] (2); hydroxylase, methyldopetate binding [IPR008274] (2); FHY3/FAR1 family [IPR031052] (1)	scaffold_8_mRNA_3007.1	C_unshiu_00281_mRNA_13.1	-
GF0024130	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508 biological process] [1]; cysteine-type peptidase activity [GO:0008234 molecular function] [2]	Ribonuclease H-like domain [IPR012337] (2); Zinc finger, CCHC-type [IPR008790] (2)	scaffold_8_mRNA_2997.1	C_unshiu_00281_mRNA_3.1	-
GF0024129	1	1	0	Serine carboxypeptidase 1 (2)	nucleic acid binding [GO:0003676 molecular function] [2]	serine carboxypeptidase [IPR001563] (2); Alpha/Beta hydrolase fold [IPR029058] (2)	scaffold_8_mRNA_298.1	C_unshiu_00024_mRNA_65.1	-
GF0024128	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508 biological process] [1]; cysteine-type peptidase activity [GO:0008234 molecular function] [2]	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (1)	scaffold_8_mRNA_2977.1	C_unshiu_00571_mRNA_9.1	-
GF0024127	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] [2]; nucleotide binding [GO:0000166 nucleic acid binding] [1]	Histone H2A/H2B/H3 [IPR0007125] (2); Histone H2A, C-terminal domain [IPR0007127] (2); Histone H2A/H2B/H3 [IPR0007125] (2)	scaffold_8_mRNA_2971.1	C_unshiu_00571_mRNA_22.1	-
GF0024125	1	1	0	Histone H2A (2)	protein heterodimerization activity [GO:0004692 molecular function] [2]	RNA recognition motif domain [IPR000940] (2); Nucleotide-binding alpha-beta plait domain [IPR012677] (1)	scaffold_8_mRNA_2950.1	C_unshiu_00525_mRNA_15.1	-
GF0024124	1	1	0	RNA recognition motif (2)	nucleic acid binding [GO:0000166 nucleic acid binding] [1]	Histone H2A/H2B/H3 [IPR0009072] (2); Histone H2B [IPR000558] (2); Histone H2A/H2B/H3 [IPR007125] (2)	scaffold_8_mRNA_2949.1	C_unshiu_00525_mRNA_14.1	-
GF0024122	1	1	0	Histone H2B (2)	nucleic acid binding [GO:0000166 nucleic acid binding] [1]	Plant disease resistance response protein [IPR004265] (2)	scaffold_8_mRNA_2944.1	C_unshiu_00525_mRNA_11.1	-
GF0024120	1	1	0	Disease resistance response/direct-like	disease resistance response/direct-like [GO:0001986 biological process] [2]; nucleic acid binding [GO:0004692 molecular function] [2]	scaffold_8_mRNA_2924.1	C_unshiu_00158_mRNA_48.1	-	
GF0024119	1	1	0	Hypothetical protein (2)	hypothetical protein [1]	scaffold_8_mRNA_291.1	C_unshiu_01074_mRNA_5.1	-	
GF0024118	1	1	0	Hypothetical protein (2)	hypothetical protein [1]	scaffold_8_mRNA_2907.1	C_unshiu_00858_mRNA_7.1	-	
GF0024117	1	1	0	Hypothetical protein (2)	hypothetical protein [1]	scaffold_8_mRNA_2899.1	C_unshiu_00158_mRNA_24.1	-	
GF0024116	1	1	0	Hypothetical protein (2)	hypothetical protein [1]	scaffold_8_mRNA_2896.1	C_unshiu_00158_mRNA_22.1	-	
GF0024110	1	1	0	Hypothetical protein (2)	hypothetical protein [1]	scaffold_8_mRNA_286.1	C_unshiu_00024_mRNA_67.1	-	
GF0024108	1	1	0	ATP synthase subunit d, mitochondrial (1); Hypothetical protein (1)	ATP synthase complex, coupling factor ATP synthase complex, coupling factor F(0) [GO:0000767 cellular component] [2]; hydrogen ion transmembrane transporter activity [GO:0015078 molecular function] [2]	ATPase, F0 complex, subunit D, mitochondrial [IPR008689] (1); ATP synthase, F0 complex, subunit D, mitochondrial [IPR008689] (1)	scaffold_8_mRNA_2843.1	C_unshiu_00082_mRNA_44.1	-
GF0024107	1	1	0	Hypothetical protein (1); Translation elongation factor ETS-1 alpha (1)	Tetratricopeptide repeat-like superfamily protein, putative (1); Pentriceptide repeat-containing protein, mitochondrial (1)	scaffold_8_mRNA_2837.1	C_unshiu_00639_mRNA_21.1	-	
GF0024106	1	1	0	Hypothetical protein (2)	hypothetical protein [1]	Pentriceptide repeat [IPR002885] (2)	scaffold_8_mRNA_2825.1	C_unshiu_00639_mRNA_11.1	-
GF0024103	1	1	0	Hypothetical protein (2)	hypothetical protein [1]	scaffold_8_mRNA_2812.1	C_unshiu_01354_mRNA_6.1	-	
GF0024100	1	1	0	Proline-rich receptor-like protein kinase PERK15 (2)	protein kinase activity [GO:0004672 molecular function] [2]; protein phosphorylation [GO:0006468 biological process] [2]; ATP binding [GO:0005524 molecular function] [2]	Protein kinase-like domain [IPR000719] (2); Protein kinase-like domain [IPR000719] (2); Protein kinase-like domain [IPR000719] (2)	scaffold_8_mRNA_2788.1	C_unshiu_00481_mRNA_12.1	-
GF0024098	1	1	0	Hypothetical protein (2)	hypothetical protein [1]	scaffold_8_mRNA_2778.1	C_unshiu_01053_mRNA_9.1	-	
GF0024097	1	1	0	Hypothetical protein (2)	hypothetical protein [1]	scaffold_8_mRNA_2766.1	C_unshiu_00500_mRNA_15.1	-	
GF0024094	1	1	0	Hypothetical protein (2)	hypothetical protein [1]	scaffold_8_mRNA_2746.1	C_unshiu_00438_mRNA_23.1	-	
GF0024090	1	1	0	Hypothetical protein (2)	hypothetical protein [1]	scaffold_8_mRNA_2694.1	C_unshiu_00049_mRNA_3.1	-	
GF0024089	1	1	0	Hypothetical protein (2)	membrane [GO:0016020 cellular component] [2]; metal ion binding [GO:0004692 molecular function] [1]; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen [GO:0003676 molecular function] [1]; oxidation-reduction process [GO:0055114 biological process] [1]; nucleic acid binding [GO:0003676 molecular function] [2]; nucleotide binding [GO:0000166 nucleic acid binding] [1]	Prohibitin [IPR00163] (2); Lipoygenase, C-terminal [IPR013819] (1)	scaffold_8_mRNA_2664.1	C_unshiu_02347_mRNA_2.1	-
GF0024088	1	1	0	Hypothetical protein (2)	membrane [GO:0016020 cellular component] [2]; metal ion binding [GO:0004692 molecular function] [1]; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen [GO:0003676 molecular function] [1]; oxidation-reduction process [GO:0055114 biological process] [1]; nucleic acid binding [GO:0003676 molecular function] [2]; nucleotide binding [GO:0000166 nucleic acid binding] [1]	RNA recognition motif domain [IPR000504] (2); Polyadenylate-binding protein/Hyperplastic disc protein [IPR020004] (1); Nucleotide-binding alpha-beta plait domain [IPR012677] (1)	scaffold_8_mRNA_2647.1	C_unshiu_00883_mRNA_5.1	-
GF0024086	1	1	0	Hypothetical protein (1); Cysteine-rich receptor-like protein kinase 10 (1)	hypothetical protein [1]; protein kinase activity [GO:0004672 molecular function] [1]	Protein kinase-like domain [IPR011009] (2); Serine-threonine-tyrosine-protein kinase, catalytic domain [IPR01245] (1)	scaffold_8_mRNA_2628.1	C_unshiu_01848_mRNA_4.1	-
GF0024085	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] [2]	Ribonuclease H-like domain [IPR012337] (2)	scaffold_8_mRNA_2624.1	C_unshiu_01999_mRNA_5.1	-
GF0024084	1	1	0	Phototrophic-responsive NPH3 family protein (2)	protein binding [GO:0005515 molecular function] [2]	SKP1/BTB/POZ domain [IPR011333] (2); NPH3 domain [IPR027356] (2); BTB/POZ domain [IPR000210] (2)	scaffold_8_mRNA_2622.1	C_unshiu_00897_mRNA_8.1	-
GF0024080	1	1	0	Hypothetical protein (2)	hypothetical protein [1]	DDE superfamily endonuclease domain [IPR004875] (1)	scaffold_8_mRNA_2595.1	C_unshiu_00320_mRNA_7.1	-
GF0024077	1	1	0	Hypothetical protein (2)	hypothetical protein [1]	X8 domain [IPR012946] (2)	scaffold_8_mRNA_2586.1	C_unshiu_00320_mRNA_17.1	-
GF0024076	1	1	0	Jerky putative (1); Hypothetical protein (1)	nucleic acid binding [GO:0003676 molecular function] [1]	Domain of unknown function DUF1985 [IPR015410] (2)	scaffold_8_mRNA_2559.1	C_unshiu_00059_mRNA_47.1	-
GF0024075	1	1	0	Hypothetical protein (2)	hypothetical protein [1]	Reverse transcriptase zinc-binding domain [IPR026060] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_8_mRNA_2557.1	C_unshiu_00059_mRNA_43.1	-
GF0024073	1	1	0	Hypothetical protein (2)	hypothetical protein [1]	Fatty acyl-CoA reductase [IPR026055] (2)	scaffold_8_mRNA_2556.1	C_unshiu_00059_mRNA_42.1	-
GF0024072	1	1	0	Polymethylolyl transferase, Ribonuclease H fold (1); Putative ribonuclease H protein (1)	nucleic acid binding [GO:0003676 molecular function] [2]	Fatty acyl-CoA reductase [IPR026055] (2)	scaffold_8_mRNA_2548.1	C_unshiu_01814_mRNA_4.1	-
GF0024071	1	1	0	Fatty acyl-CoA reductase 3 (2)	fatty acyl-CoA reductase (alcohol-forming) activity [GO:0008019 molecular function] [2]	Domain of unknown function DUF4283 [IPR25558] (2); Reverse transcriptase domain [IPR004477] (2)	scaffold_8_mRNA_2534.1	C_unshiu_00011_mRNA_31.1	-
GF0024068	1	1	0	Non-ltr retrotransposon reverse transcriptase-like protein (1); Putative non-LTR retroelement reverse transcriptase (1)	RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular function] [1]; zinc-finger protein [GO:0008270 molecular function] [1]; nucleic acid binding [GO:0003676 molecular function] [1]	Endonuclease/exonuclease/phosphatase [IPR005135] (2); Ribonuclease H domain [IPR01156] (2); Reverse transcriptase zinc-binding domain [IPR026960] (1); Ribonuclease H-like domain [IPR012337] (1); Zinc finger, CCHC-type [IPR001878] (1); Protein of unknown function DUF247, plant [IPR004158] (1)	scaffold_8_mRNA_2537.1	C_unshiu_00302_mRNA_32.1	-
GF0024067	1	1	0	Hypothetical protein (2)	fatty acyl-CoA reductase (alcohol-forming) activity [GO:0008019 molecular function] [2]	Fatty acyl-CoA reductase [IPR026055] (2); Fatty acyl-CoA reductase, C-terminal [IPR033640] (1); NAD(P)-binding domain [IPR016040] (1); Male sterility, NAD-binding [IPR013120] (1)	scaffold_8_mRNA_2531.1	C_unshiu_00011_mRNA_29.1	-
GF0024066	1	1	0	Hypothetical protein (2)	Penetriceptide repeat-containing family protein (1); Chlororespiratory reduction 21 (1)	Tetrapeptide-like helical domain [IPR010901]; Penetriceptide repeat [IPR020362] (2)	scaffold_8_mRNA_2529.1	C_unshiu_00011_mRNA_27.1	-
GF0024065	1	1	0	Subtilisin-like serine protease (1); Subtilisin-like serine endopeptidase family protein (1)	protein binding [GO:0005515 molecular function] [2]	PA domain [IPR001371] (2); Peptidase S8/S33 domain [IPR002092] (2); Peptidase S8, subtilisin-related [IPR01550] (1)	scaffold_8_mRNA_2528.1	C_unshiu_00011_mRNA_26.1	-
GF0024064	1	1	0	Subtilisin-like serine protease (1); Subtilisin-like serine endopeptidase family protein (1)	proteolysis [GO:0006508 biological process] [2]; serine-type endopeptidase activity [GO:00004252 molecular function] [2]				

ID	Num in <i>C. clementiae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0024063	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508]; biological_process [1]; serine-type endopeptidase activity [GO:0004252]; molecular_function [2]	Peptidase S8/S3 domain [IPR000209]; (2); Peptidase SK, subtilisin-related [IPR015300] (1)	scaffold_8_mRNA_2526.1	C_unshiu_00011_mRNA_24.1	-
GF0024062	1	1	0	Hypothetical protein (1); Reticuline oxidase-like protein (1)	-	-	scaffold_8_mRNA_2518.1	C_unshiu_00011_mRNA_16.1	-
GF0024061	1	1	0	Alpha/beta fold hydrolase (2)	-	(2); Alpha/beta hydrolase fold [IPR000073]; (2); Alpha/beta hydrolase fold [IPR029058] (2)	scaffold_8_mRNA_2508.1	C_unshiu_00011_mRNA_10.1	-
GF0024057	1	1	0	Trichome bifringence-like 14 (1); Hypothetical protein (1)	-	Protein trichome bifringence-like 13 [IPR029968] (2); PC-Esterase [IPR026657] (2); Trichome bifringence-like family [IPR029962] (2)	scaffold_8_mRNA_248.1	C_unshiu_00024_mRNA_105.1	-
GF0024054	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]; molecular_function [2]	Ribonuclease H-like domain [IPR012337] (2)	scaffold_8_mRNA_2463.1	C_unshiu_02360_mRNA_2.1	-
GF0024052	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2454.1	C_unshiu_00814_mRNA_8.1	-
GF0024051	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2453.1	C_unshiu_00814_mRNA_7.1	-
GF0024046	1	1	0	Hypothetical protein (1); RNA-binding protein (1)	nucleic acid binding [GO:0003676]; molecular_function [2]; nucleotide binding [GO:0000166]; molecular_function [1]	RNA recognition motif domain [IPR000504] (2); Nucleotide-binding alpha-beta plait domain [IPR012677] (1); scaffold_8_mRNA_2424.1	-	C_unshiu_00730_mRNA_6.1	-
GF0024045	1	1	0	Hypothetical protein (2)	-	RNA recognition motif domain, eukaryote [IPR003954] (1)	-	-	-
GF0024044	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_242.1	C_unshiu_00116_mRNA_2.1	-
GF0024042	1	1	0	Probable F-box protein At1g6180 (2)	protein binding [GO:0005515]; molecular_function [1]; protein dimerization activity [GO:0046983]; molecular_function [1]; nucleic acid binding [GO:0003676]; molecular_function [1]	HAT, C-terminal dimerisation domain [IPR008906] (1); Ribonuclease H-like domain [IPR012337] (1); F-box domain [IPR0110] (1)	scaffold_8_mRNA_2402.1	C_unshiu_00426_mRNA_5.1	-
GF0024040	1	1	0	Trip (2)	-	MULE transposase domain [IPR018289] (2)	scaffold_8_mRNA_2381.1	C_unshiu_01840_mRNA_5.1	-
GF0024038	1	1	0	Hypothetical protein (2)	malate binding [IPR0015743]; biological_process [2]	Alumonium-activated malate transporter [IPR000504] (2)	scaffold_8_mRNA_2359.1	C_unshiu_00949_mRNA_13.1	-
GF0024036	1	1	0	Leucine-rich repeat receptor-like protein kinase family protein (2)	protein binding [GO:0005515]; molecular_function [2]	Leucine-rich repeat domain; L-domain-like [IPR013265] (2); Leucine-rich repeat, typical subtype [IPR005591] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (1)	scaffold_8_mRNA_2348.1	C_unshiu_01153_mRNA_11.1	-
GF0024035	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355]; biological_process [1]; root development [GO:0048364] (biological_process) (1); transcription factor activity, sequence-specific DNA binding [GO:0003700]; molecular_function [1]; nucleus [GO:0005634 cellular_component] (1)	Transcription factor LHW [IPR033260] (1)	scaffold_8_mRNA_2342.1	C_unshiu_00605_mRNA_15.1	-
GF0024033	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2323.1	C_unshiu_00251_mRNA_28.1	-
GF0024032	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2319.1	C_unshiu_00251_mRNA_24.1	-
GF0024031	1	1	0	Hypothetical protein (2)	-	Domain of unknown function DUF1985 [IPR015410] (2)	scaffold_8_mRNA_2307.1	C_unshiu_00251_mRNA_9.1	-
GF0024030	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_23.1	C_unshiu_00376_mRNA_28.1	-
GF0024028	1	1	0	17.5 kDa class I heat shock protein (2)	-	Small heat shock protein HSP20 [IPR01107] (2); HSP20-like chaperone [IPR008978] (2); Alpha crystallin/Hsp20 domain [IPR020268] (2)	scaffold_8_mRNA_2296.1	C_unshiu_02467_mRNA_2.1	-
GF0024026	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2279.1	C_unshiu_00826_mRNA_3.1	-
GF0024025	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2274.1	C_unshiu_00114_mRNA_4.1	-
GF0024024	1	1	0	Cytokinin riboside 5'-monophosphate phosphotribhydrodase (2)	-	-	scaffold_8_mRNA_2273.1	C_unshiu_00114_mRNA_3.1	-
GF0024023	1	1	0	-	-	-	scaffold_8_mRNA_2272.1	C_unshiu_00114_mRNA_2.1	-
GF0024022	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0046983 molecular_function] (2); nucleic acid binding [GO:0003676]; molecular_function [2]	Ribonuclease H-like domain [IPR012337] (2); HAT, C-terminal dimerisation domain [IPR008906] (2)	scaffold_8_mRNA_2263.1	C_unshiu_01882_mRNA_4.1	-
GF0024021	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2258.1	C_unshiu_01653_mRNA_6.1	-
GF0024020	1	1	0	Chitinase / Hevein / PR-4 / Wheatwin2 (2)	defense response to bacterium [GO:0021742 biological_process] (2); defense response to fungi [GO:005983]; biological_process [2]	Barwin, conserved site [IPR018226] (2); Barpin domain; alpha-helix [IPR013265] (2); RIP-like protein, double-beta-barrel domain [IPR000009] (1); RIP-like double-beta-barrel domain [IPR000009] (1)	scaffold_8_mRNA_2256.1	C_unshiu_01653_mRNA_4.1	-
GF0024019	1	1	0	Chitinase / Hevein / PR-4 / Wheatwin2 (2)	defense response to fungi [GO:005083]; biological_process [2]; defense response to bacterium [GO:004242]; biological_process [2]	Barwin, conserved site [IPR018226] (2); Barwin domain [IPR001153] (2); RIP-like protein, double-beta-barrel domain [IPR000009] (1); RIP-like double-beta-barrel domain [IPR000009] (1)	scaffold_8_mRNA_2255.1	C_unshiu_02252_mRNA_2.1	-
GF0024018	1	1	0	BED zinc finger, hAT family dimerization 0 domain (1); BED zinc finger, hAT family dimerization domain isoform 1 (1)	nucleic acid binding [GO:0003676]; molecular_function [2]; DNA binding [GO:0005677 molecular_function] (2); protein dimerization activity [GO:000234 molecular_function] (2); nucleic acid binding [GO:004983 molecular_function] (1)	Ribonuclease H-like domain [IPR012337] (2); hAT-like transposase, RNase-H fold [IPR025525] (2); Zinc finger, BED-type [IPR003656] (2); Zinc finger, C-terminal dimerisation domain [IPR008906] (1)	scaffold_8_mRNA_2244.1	C_unshiu_00962_mRNA_7.1	-
GF0024017	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2241.1	C_unshiu_01594_mRNA_6.1	-
GF0024016	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2234.1	C_unshiu_01317_mRNA_2.1	-
GF0024015	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2230.1	C_unshiu_00427_mRNA_10.1	-
GF0024014	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2228.1	C_unshiu_00235_mRNA_1.1	-
GF0024012	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2217.1	C_unshiu_00427_mRNA_19.1	-
GF0024011	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular_function] (2); regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Zinc finger, SWIM-type [IPR007527] (2); Zinc finger, CCHC-type [IPR001878] (2); FHY3/FAR1 family [IPR031052] (2)	scaffold_8_mRNA_2211.1	C_unshiu_00427_mRNA_25.1	-
GF0024010	1	1	0	Hypothetical protein (2)	systemic acquired resistance activity [GO:000234 molecular_function] (2); proteolysis [GO:000508 molecular_function] (2); biological_process [2]	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (2)	scaffold_8_mRNA_2210.1	C_unshiu_00427_mRNA_26.1	-
GF0024009	1	1	0	Hypothetical protein (2)	-	HS20-like chaperone [IPR008978] (2); Alpha crystallin/Hsp20 domain [IPR020268] (2); Small heat shock protein HSP20 [IPR031107] (1)	scaffold_8_mRNA_2208.1	C_unshiu_02022_mRNA_2.1	-
GF0024008	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2206.1	C_unshiu_02022_mRNA_4.1	-
GF0024007	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2201.1	C_unshiu_00413_mRNA_22.1	-
GF0024006	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2200.1	C_unshiu_00413_mRNA_21.1	-
GF0024005	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2187.1	C_unshiu_02155_mRNA_5.1	-
GF0024004	1	1	0	Hypothetical protein (2)	cytchrome-c-type peptidase activity [GO:0008274 molecular_function] (2); proteolysis [GO:0008059 biological_process] (2)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (2); Probable transposase, Pta/Espn, plant [IPR004522] (1)	scaffold_8_mRNA_2186.1	C_unshiu_01073_mRNA_6.1	-
GF0024003	1	1	0	Hypothetical protein (2)	cellular component involved in iron binding [GO:0005605 molecular_function] (1); photosynthesis [GO:001579]; biological_process [1]; electron carrier activity [GO:0009055 molecular_function] (1); heme binding [GO:0020037 molecular_function] (1)	Methyl-CpG DNA binding [IPR001739] (2); DNA-binding domain [IPR016177] (2); Cytochrome f [IPR002325] (1)	scaffold_8_mRNA_2180.1	C_unshiu_02719_mRNA_2.1	-
GF0024002	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2163.1	C_unshiu_00507_mRNA_13.1	-
GF0024001	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2162.1	C_unshiu_00507_mRNA_12.1	-
GF0024000	1	1	0	Hypothetical protein (1); Transcription factor MYB86 (1)	DNA binding [GO:0003677 molecular_function] (1)	Myb domain [IPR017930] (1); Homeobox domain [IPR009057] (1); SANT/Myb domain [IPR001005] (1)	scaffold_8_mRNA_2160.1	C_unshiu_00507_mRNA_10.1	-
GF0023999	1	1	0	Peptide transporter PTR5 (1); Nitrate transporter 1.2 (1)	transporter activity [GO:0005215 molecular_function] (2); membrane transport [GO:0008810 molecular_function] (2); biological_process [2]	Major facilitator superfamily domain [IPR020464] (2); Proton-dependent oligopeptide transporter family [IPR000109] (2)	scaffold_8_mRNA_2158.1	C_unshiu_00507_mRNA_7.1	-
GF0023998	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2153.1	C_unshiu_00110_mRNA_20.1	-
GF0023997	1	1	0	Hypothetical protein (2)	-	Domain of unknown function DUF4283 [IPR025558] (1)	scaffold_8_mRNA_2140.1	C_unshiu_00110_mRNA_5.1	-
GF0023996	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2138.1	C_unshiu_01298_mRNA_3.1	-
GF0023994	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2112.1	C_unshiu_00361_mRNA_22.1	-
GF0023993	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2105.1	C_unshiu_00361_mRNA_18.1	-
GF0023992	1	1	0	Hypothetical protein (2)	protein folding [GO:0006457 biological_process] (1); unfolded protein binding [IPR0051082 molecular_function] (1); ATP binding [GO:0005524 molecular_function] (1)	Chaperonin GroEL-like equatorial domain [IPR02423] (1); GroEL-like equatorial domain [IPR027413] (1); Chaperone TCP-1, conserved site [IPR002194] (1); Chaperone tailless complex peptide 1 (TCP-1) [IPR011998] (1)	scaffold_8_mRNA_2104.1	C_unshiu_00250_mRNA_26.1	-
GF0023991	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_210.1	C_unshiu_00116_mRNA_34.1	-
GF0023990	1	1	0	Hypothetical protein (2)	-	-	scaffold_8_mRNA_2090.1	C_unshiu_00441_mRNA_25.1	-
GF0023989	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1); zinc ion binding [GO:0008270 molecular_function] (1)	Zinc knuckle CX2CX4HX4C [IPR02536] (2); Domain of unknown function DUF4283 [IPR02558] (2); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_8_mRNA_2088.1	C_unshiu_00694_mRNA_11.1	-

ID	Num. in <i>C. clementiae</i>	Num. in <i>C. umshiu</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliata</i>
GF0023987	1	1	0	Hypothetical protein (2)					
GF0023986	1	1	0	Hypothetical protein (2)					
GF0023985	1	1	0	Hypothetical protein (2)					
GF0023984	1	1	0	Hypothetical protein (2)					
GF0023983	1	1	0	Hypothetical protein (2)					
GF0023982	1	1	0	Retrotransposon protein, putative, unclassified (2)					
GF0023981	1	1	0	Hypothetical protein (2)					
GF0023980	1	1	0	Hypothetical protein (2)					
GF0023979	1	1	0	Hypothetical protein (2)					
GF0023978	1	1	0	Hypothetical protein (2)					
GF0023977	1	1	0	Hypothetical protein (2)					
GF0023976	1	1	0	Hypothetical protein (2)					
GF0023975	1	1	0	Hypothetical protein (2)					
GF0023974	1	1	0	Hypothetical protein (2)					
GF0023973	1	1	0	Hypothetical protein (2)					
GF0023972	1	1	0	Hypothetical protein (2)					
GF0023971	1	1	0	Hypothetical protein (2)					
GF0023970	1	1	0	Hypothetical protein (2)					
GF0023969	1	1	0	Hypothetical protein (2)					
GF0023968	1	1	0	Hypothetical protein (2)					
GF0023967	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1); zinc ion binding [GO:0008270_molecular_function] (1)	Zinc finger, CCHC-type [IPR001878] (1); Reverse transcriptase domain [PR000477] (1)	scaffold_8_mRNA_2068.1 scaffold_8_mRNA_2064.1	C_umshiu_01948_mRNA_5.1 C_umshiu_02550_mRNA_2.1	-
GF0023966	1	1	0	Hypothetical protein (2)					
GF0023965	1	1	0	Hypothetical protein (2)					
GF0023964	1	1	0	Hypothetical protein (2)					
GF0023963	1	1	0	Hypothetical protein (2)					
GF0023962	1	1	0	Hypothetical protein (2)					
GF0023961	1	1	0	Hypothetical protein (2)					
GF0023959	1	1	0	Hypothetical protein (2)					
GF0023958	1	1	0	Hypothetical protein (2)					
GF0023957	1	1	0	Hypothetical protein (2)					
GF0023956	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2); DNA integration [GO:0015074_biological_process] (2)	Integrase, catalytic core [IPR001584] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_8_mRNA_1930.1	C_umshiu_00485_mRNA_3.1	-
GF0023955	1	1	0	Egg cell-secreted protein 1.4 (2)					
GF0023954	1	1	0	Hypothetical protein (2)					
GF0023952	1	1	0	Farred impaired response protein-like (2)	regulation of transcription, DNA-templated [GO:0006555 biological_process] (2)	Prolamin-like domain [IPR008502] (2); Far1 DNA binding domain [IPR004330] (2); MULE transposon-like [IPR001829] (2)	scaffold_8_mRNA_1914.1 scaffold_8_mRNA_1913.1	C_umshiu_01096_mRNA_5.1 C_umshiu_02397_mRNA_1.1	-
GF0023951	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006555 biological_process] (2)	FHY3/FAR1 family [IPR031052] (2)	scaffold_8_mRNA_1905.1	C_umshiu_00625_mRNA_23.1	-
GF0023950	1	1	0	Eukaryotic peptide chain release factor subunit 1-3 (2)	cytoplasm [GO:0005737 cellular_component] (2); translation release factor activity, codon specific [GO:0016149_molecular_function] (2); translational termination [GO:0096415 biological_process] (2)	Peptidic Chain Release Factor eRF1/αRF1, N-terminal [IPR024049] (2); 80S ribosomal protein L30e-like [IPR029664] (2); eRF1 domain [IPR014142] (2); eRF1 domain 1; Peptidic Chain Release Factor eRF1/αRF1, C-terminal [IPR016149] (2); eRF1 domain 2 [IPR065141] (2); Peptidic chain release factor eRF1/αRF1 [IPR0044403] (2)	scaffold_8_mRNA_1899.1	C_umshiu_00966_mRNA_5.1	-
GF0023949	1	1	0	Hypothetical protein (2)					
GF0023948	1	1	0	Hypothetical protein (2)					
GF0023947	1	1	0	Hypothetical protein (2)					
GF0023945	1	1	0	Hypothetical protein (2)					
GF0023944	1	1	0	Hypothetical protein (2)					
GF0023943	1	1	0	Hypothetical protein (2)					
GF0023941	1	1	0	Hypothetical protein (2)					
GF0023940	1	1	0	Hypothetical protein (2)					
GF0023939	1	1	0	Hypothetical protein (2)					
GF0023938	1	1	0	Pathogenesis-related thaumatin family (2)					
GF0023937	1	1	0	Hypothetical protein (2)					
GF0023936	1	1	0	Hypothetical protein (2)					
GF0023935	1	1	0	Hypothetical protein (2)					
GF0023933	1	1	0	Hypothetical protein (2)					
GF0023932	1	1	0	Hypothetical protein (2)					
GF0023931	1	1	0	Hypothetical protein (2)					
GF0023930	1	1	0	Hypothetical protein (2)					
GF0023929	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270_molecular_function] (2)	Zinc finger, SWIM-type [IPR007527] (2)	scaffold_8_mRNA_1813.1	C_umshiu_00708_mRNA_13.1	-
GF0023928	1	1	0	Hypothetical protein (2)					
GF0023927	1	1	0	Hypothetical protein (2)					
GF0023926	1	1	0	Hypothetical protein (2)					
GF0023925	1	1	0	Putative ribonuclease H protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPR012337] (1)	scaffold_8_mRNA_1802.1	C_umshiu_01290_mRNA_3.1	-
GF0023924	1	1	0	Hypothetical protein (2)					
GF0023923	1	1	0	B4HID acyltransferase (2)	transferase activity, transferring acyl groups other than amino-acyl groups [GO:0016747_molecular_function] (2)	Transferase [IPR003480] (2); Chloroprophomycet acetyltransferase-like domain [IPR0022130] (1)	scaffold_8_mRNA_1780.1	C_umshiu_00331_mRNA_18.1	-
GF0023922	1	1	0	Cytokinin riboside 5'-monophosphate phosphotriphosphodiesterase (2)	metabolic_process [GO:0009152 biological_process] (1); transferase activity, transferring hexosyl groups [GO:0016758_molecular_function] (2)	LOG family [IPR031100] (2)	scaffold_8_mRNA_1779.1	C_umshiu_00331_mRNA_17.1	-
GF0023921	1	1	0	UDP-glycosyltransferase 73C5 (2)	UDP-glucuronosyl UDP-glucosyltransferase [IPR002213] (2)	scaffold_8_mRNA_1775.1	C_umshiu_01736_mRNA_1.1	-	
GF0023920	1	1	0	Hypothetical protein (2)					
GF0023919	1	1	0	Hypothetical protein (2)					
GF0023917	1	1	0	Hypothetical protein (2)					
GF0023916	1	1	0	Hypothetical protein (2)					
GF0023915	1	1	0	Metacaspase 9 (2)					
GF0023913	1	1	0	Hypothetical protein (2)					
GF0023912	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPR012337] (1)	scaffold_8_mRNA_1725.1	C_umshiu_00147_mRNA_33.1	-
GF0023911	1	1	0	Hypothetical protein (2)					
GF0023910	1	1	0	Hypothetical protein (2)					
GF0023909	1	1	0	Hypothetical protein (2)					
GF0023908	1	1	0	Hypothetical protein (2)					
GF0023907	1	1	0	Hypothetical protein (2)					
GF0023906	1	1	0	Poly nucleotidyl transferase, Ribonuclease H fold (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Reverse transcriptase zinc-binding domain [IPR026960] (2); Ribonuclease H-like domain [IPR012337] (1)	scaffold_8_mRNA_1572.1	C_umshiu_01374_mRNA_7.1	-
GF0023905	1	1	0	Hypothetical protein (2)					
GF0023903	1	1	0	Hypothetical protein (2)					
GF0023902	1	1	0	Cytokinin riboside 5'-monophosphate phosphotriphosphodiesterase (2)	DNA binding [GO:0003677 molecular_function] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPR012337] (1); hAT-like transposase, RNase H-fold [IPR025252] (1)	scaffold_8_mRNA_1554.1 scaffold_8_mRNA_1548.1 scaffold_8_mRNA_1547.1	C_umshiu_01235_mRNA_3.1 C_umshiu_00988_mRNA_1.1 C_umshiu_01506_mRNA_3.1	-
GF0023901	1	1	0	Hypothetical protein (2)					
GF0023899	1	1	0	Leguminosin group-485 secreted peptide (2)	transmembrane transport [GO:0055085 biological_process] (1); phagosome biogenesis [GO:0042254 biological_process] (1); integral component of membrane [GO:0016021 cellular_component] (1)	CCAAT-binding factor [IPR005612] (2); Major facilitator superfamily domain [IPR020846] (1); Major facilitator superfamily [IPR017017] (1); Nuclear complex protein 4 [IPR027193] (1)	scaffold_8_mRNA_151.1	C_umshiu_00376_mRNA_35.1	-
GF0023898	1	1	0	Hypothetical protein (1); Nucleolar complex protein 4 (1)					
GF0023897	1	1	0	Hypothetical protein (2)					
GF0023895	1	1	0	Hypothetical protein (2)					
GF0023894	1	1	0	Hypothetical protein (2)					
GF0023893	1	1	0	Hypothetical protein (2)					
GF0023892	1	1	0	Aldo/keto reductase family oxidoreductase (2)					

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0023891	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355]; biological_process (1)	FHY3/FAR1 family [IPR031052] (1); SCP2 sterol-binding domain [IPR003033] (1)	scaffold_8_mRNA_1449.1	C_unshiu_0097_mRNA_1.1	-
GF0023890	1	1	0	Gag protease/prolylprotein (1); Hypothetical protein (1)	[IPR005162] (1)	Retrotransposon gag domain [IPR005162] (1)	scaffold_8_mRNA_1447.1	C_unshiu_01227_mRNA_4.1	-
GF0023889	1	1	0	Hypothetical protein (2)	[IPR005162] (1)	scaffold_8_mRNA_1445.1	C_unshiu_01227_mRNA_6.1	-	
GF0023888	1	1	0	Hypothetical protein (2)	[IPR021109] (1)	Aspartic peptidase domain [IPR021109] (1)	scaffold_8_mRNA_1443.1	C_unshiu_00950_mRNA_8.1	-
GF0023887	1	1	0	Exostosin family protein (1); Xyloglacturonan-beta-1,3-xylosyltransferase-like protein (1)	[IPR004263] (2)	Exostosin-like [IPR004263] (2)	scaffold_8_mRNA_1439.1	C_unshiu_00174_mRNA_16.1	-
GF0023885	1	1	0	Dihydroksacmpferd 4-reductase (1); Hypothetical protein (1)	catalytic activity [GO:0003824]; molecular_function (2); coenzyme binding [GO:005662]; molecular_function (2); nucleic acid binding [GO:0003676]; molecular_function (1)	NAD(P)-binding domain [IPR016040]; (2); Domain of unknown function [IPR001598] (1); NAD-dependent epimerase/dehydratase [IPR001599] (1); NAD-dependent epimerase-dehydratase [IPR001599] (1)	scaffold_8_mRNA_1426.1	C_unshiu_00632_mRNA_11.1	-
GF0023884	1	1	0	Hypothetical protein (2)	[IPR018289] (2)	MULE transposase domain [IPR018289] (2)	scaffold_8_mRNA_1423.1	C_unshiu_00632_mRNA_8.1	-
GF0023882	1	1	0	Hypothetical protein (2)	[IPR018289] (2)	scaffold_8_mRNA_1409.1	C_unshiu_01473_mRNA_3.1	-	
GF0023881	1	1	0	Hypothetical protein (2)	[IPR001599] (2)	scaffold_8_mRNA_1407.1	C_unshiu_01302_mRNA_10.1	-	
GF0023880	1	1	0	Naringenin-chalcone synthase (2)	catalytic activity [GO:0003824]; molecular_function (2); transferase activity, transferring acyl groups other than aminoacyl groups [GO:0016747]; molecular_function (1); biosynthetic process [GO:0009586]; biological_process (1); metabolic process [GO:0008152]; biological_process (2)	Chalcone/stilbene synthase, C-terminal [IPR012238] (2); Thiolase-like [IPR016039] (2); Polyketide synthase, type III [IPR011141] (2); Chalcone/stilbene synthase, N-terminal [IPR001699] (2)	scaffold_8_mRNA_1406.1	C_unshiu_01302_mRNA_9.1	-
GF0023879	1	1	0	Xylem cysteine peptidase 1 (2)	cysteine-type peptidase activity [GO:0008234]; molecular_function (2); proteolytic [GO:0006508]; biological_process (2); metabolic process [GO:0008152]; biological_process (2)	Peptidase C1A [IPR013128] (2); Cysteine-type peptidase active site [IPR001469] (2); Peptidase C1A, papain C-terminal [IPR006685] (2); Cysteine peptidase, aspartic active site [IPR025661] (2); Cathepsin peptidase inhibitor domain (29) [IPR013201] (2)	scaffold_8_mRNA_14.1	C_unshiu_00376_mRNA_36.1	-
GF0023878	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]; molecular_function (2); DNA binding [GO:0003677]; molecular_function (2)	Zinc finger, BED-type [IPR003565] (2); hAT-like transposase, RNase-H fold [IPR025525] (2); Ribonuclease H-like domain [IPR012337] (2); Zinc finger C2H2-type [IPR033087] (1)	scaffold_8_mRNA_1392.1	C_unshiu_00601_mRNA_20.1	-
GF0023877	1	1	0	Hypothetical protein (2)	iron ion binding [GO:0005506]; molecular_function (1); heme binding [GO:0020037]; molecular_function (1); oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705]; molecular_function (1)	Cytochrome P450 [IPR001128] (1); Cytochrome P450, E-class, group I [IPR002401] (1); Cytochrome P450, conserved site [IPR017972] (1)	scaffold_8_mRNA_1385.1	C_unshiu_00244_mRNA_9.1	-
GF0023876	1	1	0	Geraniol 10-hydroxylase-like protein (2)	[GO:005114 biological_process] (1); oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705]; molecular_function (1)	scaffold_8_mRNA_1362.1	C_unshiu_01081_mRNA_7.1	-	
GF0023874	1	1	0	Hypothetical protein (2)	protein-phosphatase type 2A complex [GO:000190]; 90S cellular component [2]; binding [GO:0005488]; molecular_function (2); signal transduction [GO:0007165]; biological_process (2); membrane transport [GO:0003333]; biological_process (1); protein phosphatase regulatory activity [GO:0003333]; molecular_function (1); amino acid transmembrane transporter activity [GO:0015171]; molecular_function (1)	Protein phosphatase 2A, regulatory B subunit, B56 [IPR002554] (2); Armadillo-type fold [IPR016024] (2); Amino acid/polypeptide transporter [IPR002293] (1); Armadillo-like helical [IPR011989] (1)	scaffold_8_mRNA_134.1	C_unshiu_00041_mRNA_71.1	-
GF0023871	1	1	0	Serine/threonine protein phosphatase 2A 57 kDa regulatory subunit B' alpha isoform (1); Serine/threonine protein phosphatase 2A 57 kDa regulatory subunit B' beta isoform (1)	[GO:0002020 cellular_component] (1); 57 kDa regulatory subunit B' alpha isoform (1); Serine/threonine protein phosphatase 2A 57 kDa regulatory subunit B' beta isoform (1)	B3 DNA binding domain [IPR003340]; (2); DNA-binding pseudobarrel domain [IPR015300] (2)	scaffold_8_mRNA_1332.1	C_unshiu_00859_mRNA_17.1	-
GF0023870	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677]; molecular_function (2)	scaffold_8_mRNA_1330.1	C_unshiu_00878_mRNA_15.1	-	
GF0023869	1	1	0	Hypothetical protein (2)	[IPR005114 biological_process] (2); oxidation-reduction process [IPR005114]	scaffold_8_mRNA_1323.1	C_unshiu_01071_mRNA_3.1	-	
GF0023868	1	1	0	Hypothetical protein (2)	[IPR005114 biological_process] (2); oxidation-reduction process [IPR005114]	scaffold_8_mRNA_1309.1	C_unshiu_00859_mRNA_10.1	-	
GF0023867	1	1	0	Hypothetical protein (2)	iron ion binding [GO:0005506]; molecular_function (2); heme binding [GO:0020037]; molecular_function (2); oxidation-reduction process [IPR005114]	B3 DNA binding domain [IPR003340]; (2); DNA-binding pseudobarrel domain [IPR015300] (2)	scaffold_8_mRNA_1332.1	C_unshiu_00859_mRNA_17.1	-
GF0023865	1	1	0	Hypothetical protein (2)	[IPR005114 biological_process] (2); oxidation-reduction process [IPR005114]; acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705]; molecular_function (2)	Cytochrome P450 [IPR001128] (2)	scaffold_8_mRNA_1280.1	C_unshiu_00264_mRNA_17.1	-
GF0023864	1	1	0	Hypothetical protein (2)	General transcription factor 2-related zinc finger protein (1); TTF-type zinc finger protein with HAT dimerisation domain (1)	Domain of unknown function DUF4371 [IPR025598] (2); HAT, C-terminal dimerisation domain [IPR008906] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_8_mRNA_1246.1	C_unshiu_00245_mRNA_23.1	-
GF0023863	1	1	0	Hypothetical protein (2)	[IPR005114 biological_process] (2); oxidation-reduction process [IPR005114]	scaffold_8_mRNA_1240.1	C_unshiu_00329_mRNA_25.1	-	
GF0023862	1	1	0	Hypothetical protein (2)	[IPR005114 biological_process] (2); oxidation-reduction process [IPR005114]	scaffold_8_mRNA_1229.1	C_unshiu_00329_mRNA_16.1	-	
GF0023860	1	1	0	Hypothetical protein (2)	Transposase, MuDR, plant [IPR004332] (1)	scaffold_8_mRNA_1206.1	C_unshiu_01085_mRNA_9.1	-	
GF0023859	1	1	0	Hypothetical protein (2)	Retrotransposon gag domain [IPR005162] (2)	scaffold_8_mRNA_1204.1	C_unshiu_02314_mRNA_1.1	-	
GF0023858	1	1	0	F-box protein interaction domain protein (2)	F-box associated domain, type 1 [IPR006527] (2); F-box domain [IPR001810] (2); F-box domain, interacting domain [IPR017451] (2); Galactose oxidase/kelch_beta-propeller [IPR011043] (2); Kelch-type beta propeller [IPR015915] (1)	scaffold_8_mRNA_120.1	C_unshiu_00041_mRNA_56.1	-	
GF0023855	1	1	0	Hypothetical protein (2)	Plant disease resistance response protein [IPR004265] (2)	scaffold_8_mRNA_1188.1	C_unshiu_02557_mRNA_3.1	-	
GF0023854	1	1	0	Hypothetical protein (2)	[IPR004265] (2)	scaffold_8_mRNA_1179.1	C_unshiu_02525_mRNA_2.1	-	
GF0023853	1	1	0	Hypothetical protein (2)	[IPR004265] (2)	scaffold_8_mRNA_1162.1	C_unshiu_00261_mRNA_37.1	-	
GF0023852	1	1	0	Hypothetical protein (2)	[IPR004265] (2)	scaffold_8_mRNA_1159.1	C_unshiu_02107_mRNA_3.1	-	
GF0023848	1	1	0	Hypothetical protein (2)	transporter activity [GO:0006215]; molecular_function (2); transport [GO:000610; biological_process] (2); membrane [GO:0016020]; cellular_component (2)	Aquaporin-like [IPR023271] (2); Major intrinsic protein [IPR000421] (2); Aquaporin transporter [IPR034294] (1)	scaffold_8_mRNA_1124.1	C_unshiu_00887_mRNA_11.1	-
GF0023846	1	1	0	Hypothetical protein (1); Putative retroelement pol/polyprotein (1)	protein binding [GO:0005515]; molecular_function (2)	Gag-polypeptide of LTR copia-type [IPR029472] (1); GAG-pre-integrase domain [IPR025724] (1)	scaffold_8_mRNA_1118.1	C_unshiu_00161_mRNA_33.1	-
GF0023845	1	1	0	Hypothetical protein (2)	ADP binding [GO:0043531]; molecular_function (2)	Gag-polypeptide, L domain-like [IPR023675] (2); AAA+ ATPase domain [IPR02182] (2); AAA+ ATPase domain [IPR005593] (2); P-loop containing motif [IPR005594] (2); Winged-helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_8_mRNA_1105.1	C_unshiu_01068_mRNA_7.1	-
GF0023842	1	1	0	Hypothetical protein (1); Retrotansposon protein, putative, Ty3/gypsy subclass (1)	nucleic acid binding [GO:0003676]; molecular_function (1); response to auxin [GO:0009733 biological_process] (1); DNA integration [GO:0015074 biological_process] (1)	Chromatin-domain-like [IPR016197] (2); Chromatin-domain [IPR023780] (2); Small auxin-up RNA [IPR003676] (1); Integrase, catalytic core [IPR001584] (1); Ribonuclease H-like domain [IPR023337] (1)	scaffold_8_mRNA_1096.1	C_unshiu_01043_mRNA_5.1	-
GF0023840	1	1	0	Auxin-induced protein X10A (2)	response to auxin [GO:0009733 biological_process] (2)	Small auxin-up RNA [IPR003676] (2)	scaffold_8_mRNA_1093.1	C_unshiu_01086_mRNA_2.1	-
GF0023838	1	1	0	Hypothetical protein (2)	[IPR0032675] (2)	scaffold_8_mRNA_1085.1	C_unshiu_00396_mRNA_29.1	-	
GF0023837	1	1	0	Hypothetical protein (2)	[IPR0032675] (2)	scaffold_8_mRNA_1071.1	C_unshiu_00047_mRNA_4.1	-	
GF0023836	1	1	0	Hypothetical protein (2)	[IPR0032675] (2)	scaffold_8_mRNA_1048.1	C_unshiu_02412_mRNA_4.1	-	
GF0023835	1	1	0	Auxin-induced protein 10A5 (1); Auxin-induced protein X10A (1)	response to auxin [GO:0009733 biological_process] (2)	Small auxin-up RNA [IPR003676] (2)	scaffold_8_mRNA_1045.1	C_unshiu_01573_mRNA_6.1	-
GF0023834	1	1	0	Hypothetical protein (2)	[IPR0032675] (2)	scaffold_8_mRNA_1037.1	C_unshiu_00649_mRNA_20.1	-	
GF0023833	1	1	0	Disease resistance protein (CC-NBS-LRR class) family protein (2)	ADP binding [GO:0043531]; molecular_function (2)	Leucine-rich repeat domain, L domain-like [IPR032675] (2); AAA+ ATPase domain [IPR02182] (2); P-loop containing motif [IPR005594] (2); Winged-helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_8_mRNA_1023.1	C_unshiu_00873_mRNA_2.1	-

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>	
GF0023832	1	1		Disease resistance protein RPS5-like 0 protein 3 (1); Disease resistance protein (1)	ADP binding [GO:0043531 molecular_function] (2)	Leucine-rich repeat domain, L-domain-like [IPR032675]; P-loop containing nucleoside triphosphate hydrolase [IPR027417]; NB-ARC [IPR002182]; scaffold_8_mRNA_1022.1 (2); AAA+ ATPase domain [IPR003593] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	C_unshiu_00272_mRNA_13.1	-	-	
GF0023831	1	1		0 Hypothetical protein (2)		P-loop containing nucleoside triphosphate hydrolase [IPR027417]; AAA+ ATPase domain [IPR003593] (2); NB-ARC [IPR002182]; Leucine-rich repeat domain, L-domain-like [IPR032675]; Fungal-type helix-turn-helix domain [IPR002021] (1); Alpha/Beta hydrolase fold [IPR29058]; Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_8_mRNA_1020.1	C_unshiu_00090_mRNA_11.1	-	
GF0023830	1	1		0 Disease resistance protein (CC-NBS-LRR class) family protein (2)	ADP binding [GO:0043531 molecular_function] (2); lipid metabolic process [GO:0006629 biological_process] (1)	Leucine-rich repeat domain, L-domain-like [IPR032675]; P-loop containing nucleoside triphosphate hydrolase [IPR027417]; AAA+ ATPase domain [IPR003593] (2); NB-ARC [IPR002182]; scaffold_8_mRNA_1018.1 (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_8_mRNA_1018.1	C_unshiu_02383_mRNA_5.1	-	
GF0023828	1	1	0	Polyphenol reductase 2 (1); Putative polyphenol reductase 2 (1)	integral component of membrane [GO:0016021 cellular_component] (1); oxidoreductase activity, acting on the CH-CH group of donors [GO:0016627 molecular_function] (1); lipid metabolic process [GO:0006629 biological_process] (1); cytoskeleton [GO:0005737 cellular_component] (1)	3-oxo-5-alpha-steroïd 4-dehydrogenase, C-terminal [IPR011004] (1)	scaffold_8_mRNA_1006.1	C_unshiu_00918_mRNA_10.1	-	
GF0023825	1	1		0 Hypothetical protein (2)		Alpha/Beta hydrolase fold [IPR029058] (2)	scaffold_7_mRNA_992.1	C_unshiu_00065_mRNA_5.1	-	
GF0023824	1	1		0 Hypothetical protein (2)		GDSL_lipase/esterase [IPR001087] (2); SGN1 hydrolase-type esterase domain [IPR013830] (2)	scaffold_7_mRNA_988.1	C_unshiu_00065_mRNA_1.1	-	
GF0023819	1	1	0	GDSL esterase/lipase 5 (2)	hydrolase activity, acting on ester bonds [GO:0016788 molecular_function] (2)	Membrane associated eicosanoid/glycosaminoglycan metabolism-like domain [IPR023352] (1)	scaffold_7_mRNA_966.1	C_unshiu_00397_mRNA_6.1	-	
GF0023816	1	1	0	Ribosomal protein L18ae family protein (2)	translation initiation factor activity [GO:0003743 molecular_function] (2); translational initiation [GO:0006413 biological_process] (2)	Translation initiation factor 1A (eIF-1A) [IPR001255] (2); Nucleic acid-binding, OB-fold [IPR012340] (1)	scaffold_7_mRNA_942.1	C_unshiu_00166_mRNA_19.1	-	
GF0023814	1	1	0	Hypothetical protein (2)		Translation initiation factor 1A (eIF-1A) [IPR001255] (2); Nucleic acid-binding, OB-fold [IPR012340] (1)	scaffold_7_mRNA_930.1	C_unshiu_00166_mRNA_33.1	-	
GF0023813	1	1	0	Phospholipase D beta 1 (1); Putative phospholipase D beta 1-like (1)	translational initiation [GO:0006413 biological_process] (2); translation initiation factor activity [GO:0003743 molecular_function] (2)	Phospholipase D, C-terminal [IPR024632] (2); Phospholipase D family scaffold_7_mRNA_929.1 [IPR015679] (2)	C_unshiu_00166_mRNA_34.1	-	-	
GF0023812	1	1	0	Hypothetical protein (2)		Translational initiation factor 1A (eIF-1A) [IPR001255] (2); Nucleic acid-binding, OB-fold [IPR012340] (1)	scaffold_7_mRNA_928.1	C_unshiu_00166_mRNA_35.1	-	
GF0023811	1	1	0	Hypothetical protein (2)		Survival protein SurE [IPR030048] (2); Survival protein SurE-like phosphatase/nucleotidase [IPR002828] (2)	scaffold_7_mRNA_927.1	C_unshiu_00166_mRNA_36.1	-	
GF0023809	1	1	0	S-maceloidase surE (2)	nucleotidase activity [GO:0008252 molecular_function] (2); hydrolase activity [GO:0017875 molecular_function] (2)	NAC domain [IPR003441] (2)	scaffold_7_mRNA_916.1	C_unshiu_00166_mRNA_44.1	-	
GF0023808	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (2); regulation of transcription, DNA-templated [GO:0006355 biological_process] (2)	NAC domain [IPR003441] (2)	scaffold_7_mRNA_900.1	C_unshiu_00015_mRNA_106.1	-	
GF0023806	1	1	0	Hypothetical protein (2)		Rossmann-like alpha-beta-alpha sandwich fold [IPR011729]; Protein kinase-like domain [IPR011009] (2); Protein kinase domain [IPR000719] (2); Tyrosine-protein kinase, active site [IPR008266] (2); C-terminal A-like domain [IPR002001] (2); Serine-threonine/tyrosine-protein kinase catalytic domain [IPR001245] (1); Serine-threonine/tyrosine-protein kinase, conserved site [IPR017871] (2)	C_unshiu_00726_mRNA_10.1	-	-	
GF0023803	1	1	0	Inactive protein kinase (2)	ATP binding [GO:0005524 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2)	ATPase activity, coupled to transmembrane movement of solutes [GO:0040262 molecular_function] (2); transmembrane transporter [GO:0050509 biological_process] (2); ATP binding [IPR0005524 molecular_function] (2); integral component of membrane [GO:0016021 cellular_component] (2); transport [GO:0006810 biological_process] (2)	scaffold_7_mRNA_882.1	C_unshiu_00726_mRNA_9.1	-	
GF0023802	1	1	0	ABC transporter C family member 10 (2)	ATPase activity [GO:0016887 molecular_function] (2); integral component of membrane [GO:0016021 cellular_component] (2); transport [GO:0006810 biological_process] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); AAA+ ATPase domain [IPR003593] (2); ABC transporter type 1, transmembrane transporter [IPR003439] (2); ABC transporter, conserved site [IPR017871] (2)	scaffold_7_mRNA_881.1	C_unshiu_00726_mRNA_9.1	-	
GF0023800	1	1	0	TRNA-splicing ligase RtcB (1); Pre-mRNA-splicing factor rse1 (1)		Domain of unknown function DUF4409 [IPR025521] (1); Neprinosin activation peptide [IPR025521] (1); Domain of unknown function DUF239 [IPR004314] (1); Neprinosin [IPR004314] (1)	scaffold_7_mRNA_844.1	C_unshiu_00505_mRNA_27.1	-	
GF0023799	1	1	0	Hypothetical protein (2)		scaffold_7_mRNA_841.1	C_unshiu_00505_mRNA_28.1	-	-	
GF0023796	1	1	0	Hypothetical protein (2)		scaffold_7_mRNA_809.1	C_unshiu_02346_mRNA_4.1	-	-	
GF0023794	1	1	0	Hypothetical protein (2)		scaffold_7_mRNA_790.1	C_unshiu_00508_mRNA_15.1	-	-	
GF0023793	1	1	0	Hypothetical protein (2)	iron ion binding [GO:0005506 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); oxireductase activity [GO:0006633 molecular_function] (2); fatty acid biosynthetic process [GO:0006633 biological_process] (1); lipid biosynthetic process [GO:0008610 biological_process] (1)	Fatty acid hydroxylase [IPR006694] (2)	scaffold_7_mRNA_788.1	C_unshiu_01120_mRNA_1.1	-	-
GF0023789	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (2)	Zinc finger, RING/FYVE/HID-type oxidation-reduction process [GO:0004601 molecular_function] (2); response to oxidative stress [GO:0006408 biological_process] (2); Heme binding [GO:0020037 molecular_function] (2); hydrogen peroxide catabolic process [GO:0042744 biological_process] (1)	scaffold_7_mRNA_752.1	C_unshiu_00303_mRNA_21.1	-	-
GF0023786	1	1	0	E3 ubiquitin-protein ligase ATL6 (2)		Zinc finger, RING/FYVE/HID-type oxidation-reduction process [GO:0004601 molecular_function] (2); response to oxidative stress [GO:0006408 biological_process] (2); Heme binding [GO:0020037 molecular_function] (2); hydrogen peroxide catabolic process [GO:0042744 biological_process] (1)	scaffold_7_mRNA_741.1	C_unshiu_00303_mRNA_13.1	-	-
GF0023784	1	1	0	Putative cationic peroxidase 1-like (2)		Hem peroxidase, plant/fungal/bacterial [IPR02016] (2); Plant peroxidase [IPR000673] (2); Peroxidase, active site [IPR019794] (2); Haem peroxidase [IPR010255] (2); Secretory peroxidase [IPR033905] (1)	scaffold_7_mRNA_727.1	C_unshiu_00303_mRNA_1.2	-	-
GF0023783	1	1	0	Hypothetical protein (2)		tRNA (guanine-N1-acyltransferase, tRNA (guanine-N1-acyltransferase, SpnU type) [IPR005537] (2); 50S ribosomal protein [IPR029064] (2); Alpha/beta knot methytransferases activity [IPR029282] (2); Exostosin-like [IPR004263] (1))	scaffold_7_mRNA_721.1	C_unshiu_00288_mRNA_23.1	-	-
GF0023781	1	1	0	Putative tRNA:RNA methyltransferase VsgA (1); Hypothetical protein (1)	RNA processing [GO:0006396 biological_process] (2); RNA binding [GO:0003723 molecular_function] (2); RNA methyltransferase activity [GO:0008173 molecular_function] (2)	Alcohol dehydrogenase, N-terminal [IPR013154] (2); GroEL-like superfamily, zinc-type [IPR002085] (1)	scaffold_7_mRNA_694.1	C_unshiu_00789_mRNA_10.1	-	
GF0023778	1	1	0	Hypothetical protein (2)	oxidoreductase activity [GO:0001649] molecular_function] (1)	Alpha/beta hydrolase fold-1 [IPR000073] (2); Alpha/Beta hydrolase fold [IPR001032] (2); Alcohol dehydrogenase superfamily, zinc-type [IPR002085] (1)	scaffold_7_mRNA_686.1	C_unshiu_01662_mRNA_5.1	-	
GF0023776	1	1	0	Cysteine-rich TM module stress tolerance protein (2)		Cysteine-rich transmembrane CYSTM domain [IPR028144] (2)	scaffold_7_mRNA_667.1	C_unshiu_00853_mRNA_14.1	-	-
GF0023774	1	1	0	Squalene monooxygenase (2)	flavin adenine dinucleotide binding [GO:0010660 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); oxireductase activity [GO:0016491 molecular_function] (2); integral component of membrane [GO:0016021 cellular_component] (2); squalene monooxygenase activity [GO:0004506 molecular_function] (2)	Squalene epoxidase [IPR013698] (2); FAD:NAD(P)H-binding domain [IPR023751] (2)	scaffold_7_mRNA_623.1	C_unshiu_00028_mRNA_65.1	-	-
GF0023768	1	1	0	Sigma factor sigB regulation protein rnbQ (2)	strigolactone biosynthetic process [GO:1901601 biological_process] (1); secondary shoot formation [GO:0010223 biological_process] (1); transporter activity [GO:00005215 molecular_function] (2); transport [GO:0006810 biological_process] (2); membrane [GO:0016020 cellular_component] (2)	Alpha/beta hydrolase fold-1 [IPR000073] (2); Alpha/Beta hydrolase fold [IPR001032] (2); Strigolactone esterase D14 family [IPR031143] (1)	scaffold_7_mRNA_546.1	C_unshiu_00861_mRNA_6.1	-	-
GF0023767	1	1	0	Metal transporter Niamp3 (2)		Bifunctional inhibitor/plas lipid transfer protein seed storage helical domain [IPR016140] (2); Hydrophobic seed protein [IPR027923] (2)	scaffold_7_mRNA_538.1	C_unshiu_00169_mRNA_18.1	-	-
GF0023765	1	1	0	Lipid transfer protein (1); Hypothetical protein (1)		Cysteine-rich repeat domain, L-domain-like [IPR032675] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); AAA+ ATPase domain [IPR003593] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_7_mRNA_511.1	C_unshiu_00169_mRNA_41.1	-	-
GF0023764	1	1	0	Hypothetical protein (2)		High mobility group box domain [IPR009071] (2)	scaffold_7_mRNA_493.1	C_unshiu_00301_mRNA_15.1	-	-
GF0023759	1	1	0	High mobility group (HMG)-box protein (2)		High mobility group box domain [IPR009071] (2)	scaffold_7_mRNA_45.2	C_unshiu_00312_mRNA_20.2	-	-
GF0023757	1	1	0	Hypothetical protein (2)		High mobility group box domain [IPR009071] (2)	scaffold_7_mRNA_44.2	C_unshiu_00084_mRNA_22.1	-	-

ID	Num in <i>C. clementinae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>	
GF0023755	1	1	0	Transcription factor (2)		Ternary complex factor MIP1, leucine-zipper [IPR025757] Cx: Domain of unknown function DUF547 [IPR006869]	scaffold_7_mRNA_427.1	C_unshiu_00084_mRNA_38.1	-	
GF0023750	1	1	0	Methyl esterase (1); Methyl esterase 10, putative (1)		Alpha/Beta hydrolase fold [IPR029058]	scaffold_7_mRNA_397.1	C_unshiu_02661_mRNA_2.1	-	
GF0023746	1	1	0	TPB domain containing protein (1); Hypothetical protein (1)	protein binding [GO:0005515 molecular_function] (2)	[PR011990] (2); Tetrapeptide repeat [IPR019734] (1)	scaffold_7_mRNA_378.1	C_unshiu_00025_mRNA_74.1	-	
GF0023745	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_377.1	C_unshiu_00025_mRNA_72.1	-	
GF0023744	1	1	0	Cold acclimation protein WCOR413 (2)	integral component of membrane [GO:0005173 cellular_component] (2); nucleic acid/phosphate/diphosphate-activicity [GO:0047429] molecular_function] (1); cytoplasm [GO:005737 cellular_component] (1)	Cold-regulated 413 protein [IPR008892]	scaffold_7_mRNA_375.1	C_unshiu_00025_mRNA_70.1	-	
GF0023736	1	1	0	Septum formation protein Maf (2)		Maf-like protein [IPR003697] (2); Inositol triphosphate pyrophosphatase-like [IPR029001] (2)	scaffold_7_mRNA_297.1	C_unshiu_00289_mRNA_35.1	-	
GF0023735	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_287.1	C_unshiu_00289_mRNA_26.1	-	
GF0023734	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0046983 molecular_function] (1)	Myc-type, basic helix-loop-helix (bHLH) domain [IPR011598] (1)	scaffold_7_mRNA_286.1	C_unshiu_00289_mRNA_25.1	-	
GF0023733	1	1	0	Protein RER1A (2)	integral component of membrane [GO:0016021 cellular_component] (2)	Retrieval of early ER protein Rer1 [IPR004932] (2)	scaffold_7_mRNA_279.1	C_unshiu_00289_mRNA_15.1	-	
GF0023729	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2718.1	C_unshiu_00001_mRNA_409.1	-	
GF0023728	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2713.1	C_unshiu_01382_mRNA_10.1	-	
GF0023727	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2707.1	C_unshiu_01382_mRNA_4.1	-	
GF0023726	1	1	0	Hypothetical protein (1); 50S ribosomal protein L23 (1)	nucleotide binding [GO:0000166 nucleic acid binding site] [GO:0005801 cellular_component] (1); inositol [GO:0005622 cellular_component] (1); translation [GO:0006412 biological_process] (1); structural constituent of ribosome [GO:0003735 molecular_function] (1)	Ribosomal protein L25/L23 [IPR013025] (1); Nucleotide-binding alpha2 beta1 phat domain [IPR012677] (1); Ribosomal protein L23/L15 core domain [IPR012678] (1)	scaffold_7_mRNA_2695.1	C_unshiu_00622_mRNA_11.1	-	
GF0023724	1	1	0	Hypothetical protein (2)		Reverse transcriptase domain [IPR000477] (1)	scaffold_7_mRNA_2681.1	C_unshiu_00940_mRNA_6.1	-	
GF0023723	1	1	0	Protein spinster (2)	transmembrane transport [GO:0055085 biological_process] (2); integral component of membrane [GO:0016021 cellular_component] (2)	Major facilitator superfamily [IPR011701] (2); Major facilitator superfamily domain [IPR020846] (2)	scaffold_7_mRNA_2680.1	C_unshiu_00940_mRNA_4.1	-	
GF0023722	1	1	0	Tether containing UBX domain for GLUT4, putative (2)			scaffold_7_mRNA_2665.1	C_unshiu_00807_mRNA_7.1	-	
GF0023721	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2664.1	C_unshiu_00807_mRNA_8.1	-	
GF0023719	1	1	0	Hypothetical protein (2)		P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC hydrolase [IPR02182] (2); Leucine-rich repeat domain, domain-like [IPR032675] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)		scaffold_7_mRNA_2650.1	C_unshiu_00713_mRNA_1.1	-
GF0023718	1	1	0	LRR and NB-ARC domain disease resistance protein (1); Disease resistance protein (1)		P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC hydrolase [IPR02182] (2); Leucine-rich repeat domain, domain-like [IPR032675] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)		scaffold_7_mRNA_2649.1	C_unshiu_02682_mRNA_3.1	-
GF0023717	1	1	0	Hypothetical protein (2)	copper ion binding [GO:000507 molecular_function] (2); oxidoreductase activity [GO:001649] molecular_function] (2); oxidation-reduction process [GO:00055114 biological_process] (2)	Multicopper oxidase, type 2 [IPR011706] (2); Cupredoxin [IPR008972] (2)	scaffold_7_mRNA_2632.1	C_unshiu_02082_mRNA_1.1	-	
GF0023716	1	1	0	Hypothetical protein (2)	copper ion binding [GO:000507 molecular_function] (2); oxidoreductase activity [GO:001649] molecular_function] (2); oxidation-reduction process [GO:00055114 biological_process] (2)	Cupredoxin [IPR008972] (2); Multicopper oxidase, type 2 [IPR011706] scaffold_7_mRNA_2629.1	scaffold_7_mRNA_2629.1	C_unshiu_02082_mRNA_4.1	-	
GF0023715	1	1	0	Hypothetical protein (2)	protein domain specific binding [GO:0019904 molecular_function] (2)	14-3-3 protein [IPR00008] (2); 14-3-3 domain [IPR023410] (2); Myo-inositol-1-phosphate isomerase, GAPDH-like domain [IPR01301] (1)	scaffold_7_mRNA_2623.1	C_unshiu_00760_mRNA_15.1	-	
GF0023714	1	1	0	Hypothetical protein (2)		Gag-polypeptide of LTR copia-type [IPR029472] (1)	scaffold_7_mRNA_2615.1	C_unshiu_00519_mRNA_6.1	-	
GF0023713	1	1	0	Aspartic proteinase-like protein 1 (2)	proteolysis [GO:0006508 biological_process] (2); aspartic-type endopeptidase activity [GO:0004190 molecular_function] (2)	Aspartic peptidase family A1 domain [IPR033121] (2); Aspartic peptidase A1 inhibitor, N-terminal [IPR002861] (2); Xylose inhibitor, C-terminal [IPR032799] (2); Aspartic peptidase, active site [IPR001969] (2); Pepsin-like domain [IPR034164] (1)	scaffold_7_mRNA_2613.1	C_unshiu_00519_mRNA_9.1	-	
GF0023711	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2598.1	C_unshiu_01312_mRNA_3.1	-	
GF0023710	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2579.1	C_unshiu_00854_mRNA_7.1	-	
GF0023709	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2577.1	C_unshiu_00854_mRNA_6.1	-	
GF0023708	1	1	0	Hypothetical protein (1); Retrotransposon protein, putative, Ty1-copia subclass (1)		GroEL-like equatorial domain [IPR027413] (1)				
GF0023707	1	1	0	Hypothetical protein (2)		GAG-pre-integrase domain [IPR025724] (1)	scaffold_7_mRNA_2569.1	C_unshiu_00434_mRNA_2.1	-	
GF0023705	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2566.1	C_unshiu_00434_mRNA_5.1	-	
GF0023703	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2548.1	C_unshiu_00434_mRNA_19.1	-	
GF0023701	1	1	0	Hypothetical protein (2)	iron ion binding [GO:0005506 molecular_function] (1); hem binding [GO:0020037 molecular_function] (1); oxidation-reduction process [GO:0055114 biological_process] (1); oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] (1)	Domain of unknown function DUF2483 [IPR025558] (2)	scaffold_7_mRNA_2527.1	C_unshiu_00245_mRNA_19.1	-	
GF0023700	1	1	0	Somatic embryogenesis receptor kinase 1 (2)	protein binding [GO:0005515 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2); protein kinase activity [GO:004672 molecular_function] (2)		scaffold_7_mRNA_2507.1	C_unshiu_00441_mRNA_8.1	-	
GF0023697	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2495.1	C_unshiu_00594_mRNA_9.1	-	
GF0023696	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2490.1	C_unshiu_02139_mRNA_5.2	-	
GF0023695	1	1	0	Hypothetical protein (1); Disease resistance RPM1-like protein (1)	ADP binding [GO:0043531 molecular_function] (1)	Leucine-rich repeat domain, L domain-like [IPR032675] (2); Protein kinase domain [IPR00007] (2); Leucine-rich repeat domain [IPR00077] (2)				
GF0023694	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	N-terminus-like domain [IPR02182] (1); NB-ARC [IPR02182] (1)	scaffold_7_mRNA_2485.1	C_unshiu_00468_mRNA_15.1	-	
GF0023693	1	1	0	RPM1-interacting protein 4 (RIN4) family protein (2)		Ribonuclease H-like domain [IPR012337] (1)	scaffold_7_mRNA_2473.1	C_unshiu_00468_mRNA_30.2	-	
GF0023691	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1); zinc ion binding [GO:0008270 molecular_function] (2)	Zinc finger, CCHC-type [IPR001878] (2)	scaffold_7_mRNA_2456.1	C_unshiu_00566_mRNA_18.1	-	
GF0023690	1	1	0	Hypothetical protein (2)		High mobility group box domain [IPR00007] (1)	scaffold_7_mRNA_2455.1	C_unshiu_00566_mRNA_17.1	-	
GF0023688	1	1	0	Mechanosensitive ion channel protein 10 (2)	transmembrane transport [GO:0055085 biological_process] (2); calcium ion binding [GO:0005509 molecular_function] (2); membrane [GO:0016020 cellular_component] (2)	Mechanosensitive ion channel McsS [IPR006685] (2); EF-hand domain [IPR020048] (2); LSM domain [IPR010920] (2); Mechanosensitive ion channel Mcs-like/plants/fungi [IPR016688] (2); EF-hand domain pair [IPR011992] (1)	scaffold_7_mRNA_2446.1	C_unshiu_00566_mRNA_7.1	-	
GF0023687	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2439.1	C_unshiu_01193_mRNA_2.1	-	
GF0023686	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2433.1	C_unshiu_00357_mRNA_14.1	-	
GF0023685	1	1	0	Putative WRKY transcription factor 51 (2)	transcription factor activity, sequence-specific DNA binding [GO:0003700 molecular_function] (2); regulation of transcription, promoter specific activity [GO:0006355 biological_process] (2); sequence-specific DNA binding [GO:0043365 molecular_function] (2)	WRKY domain [IPR003657] (2)	scaffold_7_mRNA_2425.1	C_unshiu_00634_mRNA_6.1	-	
GF0023684	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2417.1	C_unshiu_01284_mRNA_10.1	-	

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>	
GF0023683	1	1	0	Disease resistance protein RPP13 variant (1); Disease resistance protein RPM1 (1)	ADP binding [GO:0043531]; nucleic acid binding [GO:0003676]; nucleic acid function [2]; nucleic acid function [1]	Leucine-rich repeat domain, L-domain-like [IPR032675]; (2); P-type ATPase-containing domain [IPR021717]; Cys-NB-ARC [IPR021822]; scaffold_7_mRNA_2414.1 [IPR0212337] (1); NB-like domain [IPR011991] (1); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	C_unshiu_01284_mRNA_8.1	-	-	
GF0023682	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]; nucleic acid function [2]	Ribonuclease H-like domain [IPR012337] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2)	scaffold_7_mRNA_2412.1 [IPR012337] (2); scaffold_7_mRNA_2409.1 [IPR012337] (1)	C_unshiu_01570_mRNA_1.1 [C_unshiu_01570_mRNA_3.1]	-	
GF0023681	1	1	0	Ribonuclease H protein, putative (2)	molecular function [2]	scaffold_7_mRNA_2408.1 [IPR012337] (1)	C_unshiu_01570_mRNA_4.1 [C_unshiu_00173_mRNA_38.1]	-	-	
GF0023680	1	1	0	Hypothetical protein (2)	cellulose biosynthetic process [GO:003244]; biological process [2]; cellulose synthase (UDP-forming) activity [GO:0016760]; molecular function [2]; membrane [GO:0016020]; cellular component [2]	Cellulose synthase [IPR005150] (2); Nucleotide-diphospho-sugar transferases [IPR029044] (1)	scaffold_7_mRNA_2403.1 [IPR012337] (1)	C_unshiu_00173_mRNA_37.1	-	-
GF0023679	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515]; molecular function [1]; protein-disulfide reductase activity [GO:0041734]; molecular function [1]; oxidation-reduction process [GO:0055114]; biological process [1]	Leucine-rich repeat [IPR001611] (1); C-like [IPR011424] (1); DC1 [IPR004146] (1); Leucine-repeat-containing N-terminal plant-type [IPR012120] (1); Leucine-rich repeat domain, L-domain-like [IPR032675] (1); Zinc finger, RING/FYVE/PHD-type [IPR013083] (1)	scaffold_7_mRNA_2397.1 [IPR012337] (1); scaffold_7_mRNA_2396.1 [IPR012337] (1)	C_unshiu_00173_mRNA_31.1 [C_unshiu_00173_mRNA_30.1]	-	-
GF0023677	1	1	0	Hypothetical protein (2)	membrane [GO:0016020]; cellular component [1]; transmembrane transporter activity [GO:002857]	Leucine-rich repeat [IPR001611] (1); C-like [IPR032675] (1); Zinc finger, RING/FYVE/PHD-type [IPR013083] (1)	scaffold_7_mRNA_2395.1 [IPR012337] (1)	C_unshiu_01539_mRNA_7.1	-	-
GF0023676	1	1	0	Hypothetical protein (2)	0	Leucine-rich repeat [IPR001611] (1); C-like [IPR032675] (1); Zinc finger, RING/FYVE/PHD-type [IPR013083] (1)	scaffold_7_mRNA_2381.1 [IPR012337] (1)	C_unshiu_01813_mRNA_3.1 [C_unshiu_00173_mRNA_13.1]	-	-
GF0023675	1	1	0	Hypothetical protein (1); 0 Cysteine/Histidine-rich C1 domain family protein, putative (1)	membrane [GO:0016020]; cellular component [1]; transmembrane transporter activity [GO:002857]; molecular function [1]; integral component of membrane [GO:0016021]; cellular component [1]	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); WAT1-related protein [IPR030184] (1); Eam3 domain [IPR00620] (1)	scaffold_7_mRNA_2376.1 [IPR012337] (1)	C_unshiu_00209_mRNA_15.1	-	-
GF0023674	1	1	0	Hypothetical protein (2)	0	Transfere [IPR003480] (2); Chlorethamphenicol acetyltransferase-like domain [IPR023213] (1)	scaffold_7_mRNA_2369.1 [IPR012337] (1)	C_unshiu_00173_mRNA_6.1 [C_unshiu_00173_mRNA_4.1]	-	-
GF0023672	1	1	0	NBS-LRR type disease resistance protein (2)	0	Endonuclease/exonuclease/phosphatase [IPR005135] (2); Transcriptase factor IIIc, subunit 5 [IPR019136] (2)	scaffold_7_mRNA_2356.1 [IPR012337] (1)	C_unshiu_01110_mRNA_6.1	-	-
GF0023671	1	1	0	Hypothetical protein (2)	mRNA splicing, via spliceosome [GO:0000398]; biological process [1]; spliceosomal complex [GO:0005681]; cellular component [1]	Intron-binding protein aquarius [IPR032464] (1); CWF11 family [IPR026300] (1)	scaffold_7_mRNA_2355.1 [IPR012337] (1)	C_unshiu_01110_mRNA_5.1 [C_unshiu_01635_mRNA_3.1]	-	-
GF0023670	1	1	0	Hypothetical protein (2)	0	Intron-binding protein aquarius [IPR032464] (1); CWF11 family [IPR026300] (1)	scaffold_7_mRNA_2341.1 [IPR012337] (1)	C_unshiu_02366_mRNA_3.1	-	-
GF0023669	1	1	0	Hypothetical protein (2)	0	Transfere [IPR003480] (2); Chlorethamphenicol acetyltransferase-like domain [IPR023213] (1)	scaffold_7_mRNA_2333.1 [IPR012337] (1)	C_unshiu_00382_mRNA_10.1	-	-
GF0023667	1	1	0	Vinorine synthase (1); Salutaridinol 7-O-acetyltransferase (1)	mRNA splicing, via spliceosome [GO:0000398]; biological process [1]; spliceosomal complex [GO:0005681]; cellular component [1]	Prolamin-like domain [IPR008502] (2)	scaffold_7_mRNA_2327.1 [IPR012337] (1)	C_unshiu_00757_mRNA_14.1	-	-
GF0023666	1	1	0	Hypothetical protein (2)	0	CWF11 family [IPR026300] (1)	scaffold_7_mRNA_2324.1 [IPR012337] (1)	C_unshiu_00757_mRNA_11.1	-	-
GF0023664	1	1	0	Hypothetical protein (2)	0	Prolamin-like domain [IPR008502] (2)	scaffold_7_mRNA_2321.1 [IPR012337] (1)	C_unshiu_00757_mRNA_9.1	-	-
GF0023657	1	1	0	Hypothetical protein (2)	0	WD40-repeat-containing domain [IPR017986] (2); WD40 repeat [IPR001680] (2); WD40 YVN repeat-like-containing domain [IPR019431] (1)	scaffold_7_mRNA_2320.1 [IPR012337] (1)	C_unshiu_00016_mRNA_22.1	-	-
GF0023656	1	1	0	Hypothetical protein (2)	0	Zinc ion binding [GO:0005515]; molecular function [2]	scaffold_7_mRNA_2304.1 [IPR012337] (1)	C_unshiu_00016_mRNA_34.1	-	-
GF0023655	1	1	0	Egg cell-secreted protein 1.4 (2)	0	WD40-repeat-containing domain [IPR017986] (2); WD40 repeat [IPR001680] (2); WD40 YVN repeat-like-containing domain [IPR019431] (1)	scaffold_7_mRNA_2294.1 [IPR012337] (1)	C_unshiu_00014_mRNA_13.1	-	-
GF0023654	1	1	0	Hypothetical protein (2)	0	Zinc ion binding [GO:0005515]; molecular function [2]	scaffold_7_mRNA_2274.1 [IPR012337] (1)	C_unshiu_00025_mRNA_6.1	-	-
GF0023653	1	1	0	Hypothetical protein (2)	0	Zinc ion binding [GO:0005515]; molecular function [2]	scaffold_7_mRNA_2308.1 [IPR012337] (1)	C_unshiu_02029_mRNA_4.1	-	-
GF0023652	1	1	0	Hypothetical protein (2)	0	Zinc ion binding [GO:0005515]; molecular function [2]	scaffold_7_mRNA_2304.1 [IPR012337] (1)	C_unshiu_00016_mRNA_34.1	-	-
GF0023651	1	1	0	Hypothetical protein (2)	0	Zinc ion binding [GO:0005515]; molecular function [2]	scaffold_7_mRNA_2294.1 [IPR012337] (1)	C_unshiu_00014_mRNA_13.1	-	-
GF0023650	1	1	0	Hypothetical protein (2)	0	Zinc ion binding [GO:0005515]; molecular function [2]	scaffold_7_mRNA_2274.1 [IPR012337] (1)	C_unshiu_00025_mRNA_6.1	-	-
GF0023649	1	1	0	RING-H2 finger protein ATL78 (2)	zinc ion binding [GO:0008270]; molecular function [2]; protein binding [GO:000515 molecular function] (2)	Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Zinc finger, RING-type [IPR01841] (2)	scaffold_7_mRNA_2251.1 [IPR012337] (1)	C_unshiu_00414_mRNA_32.1	-	-
GF0023648	1	1	0	Polynucleotidyl transferase; Ribonuclease H fold (2)	zinc ion binding [GO:0008270]; molecular function [2]; protein binding [GO:000515 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2); Reverse transcriptase [IPR003591] (2)	scaffold_7_mRNA_2250.1 [IPR012337] (1)	C_unshiu_00414_mRNA_31.1	-	-
GF0023647	1	1	0	RING-H2 finger protein ATL78 (2)	zinc ion binding [GO:0008270]; molecular function [2]; protein binding [GO:000515 molecular function] (2)	Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Zinc finger, RING-type [IPR001841] (2)	scaffold_7_mRNA_2246.1 [IPR012337] (1)	C_unshiu_00414_mRNA_28.1	-	-
GF0023646	1	1	0	RING-H2 finger protein ATL78 (2)	zinc ion binding [GO:0008270]; molecular function [2]; protein binding [GO:000515 molecular function] (2)	Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Zinc finger, RING-type [IPR001841] (2)	scaffold_7_mRNA_2240.1 [IPR012337] (1)	C_unshiu_00414_mRNA_26.1	-	-
GF0023645	1	1	0	Hypothetical protein (2)	0	Protein kinase-like domain [IPR001009] (1); Protein kinase-like domain [IPR000719] (1); Protein kinase, ATP binding site [IPR001441] (1)	scaffold_7_mRNA_2233.1 [IPR012337] (1)	C_unshiu_00414_mRNA_13.1	-	-
GF0023644	1	1	0	Hypothetical protein (2)	0	Protein kinase-like domain [IPR001009] (1); Protein kinase-like domain [IPR000719] (1); Protein kinase, ATP binding site [IPR001441] (1)	scaffold_7_mRNA_2228.1 [IPR012337] (1)	C_unshiu_00414_mRNA_7.1	-	-
GF0023643	1	1	0	Hypothetical protein (2)	0	Protein kinase-like domain [IPR001009] (1); Protein kinase-like domain [IPR000719] (1); Protein kinase, ATP binding site [IPR001441] (1)	scaffold_7_mRNA_2223.1 [IPR012337] (1)	C_unshiu_00414_mRNA_3.1	-	-
GF0023642	1	1	0	Non-LTR retroelement reverse transcriptase-like protein (1); Putative non-LTR retroelement reverse transcriptase (1)	ATP binding [GO:0005524]; molecular function [1]; protein kinase phosphorylation [GO:0006468]; biological process [1]; protein kinase phosphorylation [GO:0006468]; biological process [1]; protein kinase activity [GO:0004672]; molecular function [1]	Protein kinase-like domain [IPR001009] (1); Protein kinase-like domain [IPR000719] (1); Protein kinase, ATP binding site [IPR001441] (1)	scaffold_7_mRNA_2205.1 [IPR012337] (1)	C_unshiu_01046_mRNA_9.1	-	-
GF0023641	1	1	0	Hypothetical protein (2)	0	Domain of unknown function DUF1985 [IPR015410] (2)	scaffold_7_mRNA_2187.1 [IPR012337] (1)	C_unshiu_01242_mRNA_8.1	-	-
GF0023639	1	1	0	Hypothetical protein (2)	0	Protein kinase-like domain [IPR010099] (1)	scaffold_7_mRNA_2170.1 [IPR012337] (1)	C_unshiu_00666_mRNA_5.1	-	-
GF0023638	1	1	0	UPF0183 protein (2)	0	Uncharacterised protein family UPF0183 [IPR005373] (2)	scaffold_7_mRNA_2171.1 [IPR012337] (1)	C_unshiu_00218_mRNA_37.1	-	-
GF0023637	1	1	0	LRR receptor-like serine/threonine-protein kinase FLS2 (1); LRR receptor-like kinase (1)	protein phosphorylation [GO:0006468]; biological process [1]; protein kinase activity [GO:0004672]; molecular function [1]	Protein kinase-like domain [IPR001009] (1); Serine-threonine/tyrosine-protein kinase catalytic domain [IPR001245] (1); Serine-threonine/tyrosine-protein kinase catalytic domain [IPR001245] (1)	scaffold_7_mRNA_2169.1 [IPR012337] (1)	C_unshiu_00666_mRNA_6.1	-	-
GF0023636	1	1	0	Hypothetical protein (1); AT4G05040 protein (1)	protein phosphorylation [GO:0006468]; biological process [1]; protein kinase activity [GO:0004672]; molecular function [1]	Ankyrin repeat [IPR002110] (2); Protein accelerated cell death 6 [IPR002846] (2); Ankyrin repeat-containing domain [IPR020685] (2); PGG domain [IPR020691] (1)	scaffold_7_mRNA_2165.1 [IPR012337] (1)	C_unshiu_01042_mRNA_3.1	-	-
GF0023635	1	1	0	Disease resistance protein family, putative (2)	0	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat domain [IPR001109] (2); Leucine-rich repeat [IPR003591] (2); Leucine-rich repeat [IPR001611] (2); Serine-threonine/tyrosine-protein kinase, catalytic domain [IPR001245] (1); Serine-threonine/tyrosine-protein kinase catalytic domain [IPR001245] (1)	scaffold_7_mRNA_2159.1 [IPR012337] (1)	C_unshiu_01927_mRNA_4.1	-	-
GF0023634	1	1	0	Hypothetical protein (2)	0	Kelch repeat type I [IPR006652] (2); Kelch-type beta propeller [IPR015915] (2)	scaffold_7_mRNA_2153.1 [IPR012337] (1)	C_unshiu_01042_mRNA_10.1	-	-
GF0023633	1	1	0	Kelch repeat-containing family protein (2)	0	Kelch repeat type I [IPR006652] (2); Kelch-type beta propeller [IPR015915] (2)	scaffold_7_mRNA_2151.1 [IPR012337] (1)	C_unshiu_00371_mRNA_2.1	-	-
GF0023630	1	1	0	Hypothetical protein (2)	0	HAD-like domain [IPR023214] (2); P-type ATPase [IPR001757]; Cation-translocating P-type ATPase [IPR001755]; nucleotide binding [GO:00016021 cellular component] (2); cellular response to salicylic acid stimulus [GO:0017116]; regulation of defense response [GO:0001347]; biological process [2]	scaffold_7_mRNA_2135.1 [IPR012337] (1)	C_unshiu_00526_mRNA_10.1	-	-
GF0023629	1	1	0	Putative calcium-transporting ATPase, plasma membrane-type-like (2)	calcium-transporting ATPase activity [GO:0005588 molecular function] (2); ATP binding [GO:0005524 molecular function] (2); nucleotide binding [GO:0003676 molecular function] (2)	HAD-like domain [IPR023214] (2); P-type ATPase [IPR001757]; Cation-translocating P-type ATPase [IPR001755]; nucleotide binding [GO:0003676 molecular function] (2); nucleotide binding [GO:0005516 molecular function] (1)	scaffold_7_mRNA_2132.1 [IPR012337] (1)	C_unshiu_00606_mRNA_12.1	-	-
GF0023628	1	1	0	Hypothetical protein (2)	0	Ribonuclease H-like domain [IPR012337] (2); Plant organelle RNA recognition domain [IPR021099] (2)	scaffold_7_mRNA_2127.1 [IPR012337] (1)	C_unshiu_00267_mRNA_6.1	-	-
GF0023627	1	1	0	Ubiquitin carboxy-terminal hydrolase family protein (2)	0	Ribonuclease H-like domain [IPR012337] (2)	scaffold_7_mRNA_2120.1 [IPR012337] (1)	C_unshiu_00390_mRNA_1.1	-	-
GF0023626	1	1	0	Hypothetical protein (2)	0	Ribonuclease H-like domain [IPR012337] (2)	scaffold_7_mRNA_2115.1 [IPR012337] (1)	C_unshiu_00406_mRNA_7.1	-	-
GF0023624	1	1	0	Integrase (2)	0	Integrase, catalytic core [IPR001584] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_7_mRNA_2112.1 [IPR012337] (1)	C_unshiu_00284_mRNA_2.1	-	-

ID	Num. in <i>C. clementine</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Name	GO	InterPro	Members in <i>Clementine</i>	Members in <i>Canario</i>	Members in <i>P. trifoliata</i>	
GF0023623	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2111.1	C_unshiu_01722_mRNA_4.1	-	
GF0023622	1	1	0	Hypothetical protein (3)			scaffold_7_mRNA_2108.1	C_unshiu_01722_mRNA_1.1	-	
GF0023621	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1); zinc ion binding [GO:0008270 molecular_function] (1)	Zinc finger, CCHC-type [IPR001878] (1) scaffold_7_mRNA_2107.1	C_unshiu_00968_mRNA_2.1	-	-	
					hematein binding [GO:0020307 molecular_function] (2); zinc ion binding [GO:0005506 molecular_function] (2)					
GF0023620	1	1	0	Flavonoid 3'-monooxygenase (1); Flavonoid 3'-monooxygenase (1)	oxygenase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] (2); oxidation-reduction process [GO:0005114 biological_process] (1)	Cytochrome P450 [IPR001128] (2); Cytochrome P450, E-class, group I [IPR002401] (1)	scaffold_7_mRNA_2104.1	C_unshiu_00968_mRNA_3.1	-	
					nucleic acid binding [GO:0003676 molecular_function] (2); nucleotide binding [GO:0000166 molecular_function] (1)					
GF0023619	1	1	0	RNA-binding protein with multiple splicing 2 (2)	oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] (2); oxidation-reduction process [GO:0005114 biological_process] (1); heme binding [GO:0020307 molecular_function] (2); iron ion binding [GO:0005506 molecular_function] (2)	RNA recognition motif domain [IPR000594] (2); Nucleotide-binding alpha-beta plat domain [IPR012677] (1)	scaffold_7_mRNA_2101.1	C_unshiu_00968_mRNA_7.1	-	
					metabolic process [GO:000152 biological_process] (2); D-isomer specific 2-bisoxazoline ring-forming biotransformation process [GO:0006564 biological_process] (2); amino acid binding [GO:0016597 molecular_function] (2); phosphotriesterase activity [GO:0004617 molecular_function] (2); oxidation-reduction process [GO:005114 biological_process] (2); oxoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor [GO:0016616 molecular_function] (2); NAD binding [GO:0051287 molecular_function] (2)					
GF0023618	1	1	0	Flavonoid 3'-monooxygenase (2)	D-isomeric-specific 2-hydroxyacid dehydrogenase, catalytic domain [IPR006139] (2); D-isomeric-specific 2-hydroxyacid dehydrogenase, NAD-binding domain conserved site [IPR029753] (2); ACT domain [IPR029712] (2); D-isomeric-specific 2-hydroxyacid dehydrogenase, NAD-binding domain conserved site 1 [IPR029752] (2); Allosteric substrate binding domain [IPR029093] (2); NAD(P)-binding domain [IPR016040] (2)	Cytochrome P450, E-class, group I [IPR002401] (2); Cytochrome P450, conserved site [IPR017972] (2); Cytochrome P450 [IPR00128] (2)	scaffold_7_mRNA_2099.1	C_unshiu_00968_mRNA_13.1	-	
GF0023617	1	1	0	Phosphoglycerate dehydrogenase (2)	metabolic process [GO:000152 biological_process] (2); D-isomer specific 2-bisoxazoline ring-forming biotransformation process [GO:0006564 biological_process] (2); oxoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor [GO:0016616 molecular_function] (2); NAD binding [GO:0051287 molecular_function] (2)	D-isomeric-specific 2-hydroxyacid dehydrogenase, catalytic domain [IPR006139] (2); D-isomeric-specific 2-hydroxyacid dehydrogenase, NAD-binding domain conserved site [IPR029753] (2); ACT domain [IPR029712] (2); D-isomeric-specific 2-hydroxyacid dehydrogenase, NAD-binding domain conserved site 1 [IPR029752] (2); Allosteric substrate binding domain [IPR029093] (2); NAD(P)-binding domain [IPR016040] (2)	scaffold_7_mRNA_2097.1	C_unshiu_02401_mRNA_1.1	-	
GF0023616	1	1	0	Hypothetical protein (2)	leucine-rich repeat domain, L domain-like [IPR032675] (2); Leucine-rich repeat, typical subtype [IPR003591] (2)	scaffold_7_mRNA_2094.1	C_unshiu_00690_mRNA_12.1	-	-	
GF0023614	1	1	0	Disease resistance protein RPS2 (2)	ADP binding [GO:0043531 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2)	NB-ARC [IPR002182] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_7_mRNA_2084.1	C_unshiu_02972_mRNA_1.1	-	
GF0023612	1	1	0	Hypothetical protein (2)	heme binding [GO:0020307 molecular_function] (2); iron ion binding [GO:0005506 molecular_function] (3); oxidation-reduction process [GO:005114 biological_process] (2); oxoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] (2)	Cytochrome P450 [IPR001128] (2); Domain of unknown function DUF4216 [IPR005112] (1); Cytochrome P450, E-class, group I [IPR002401] (1); Domain of unknown function DUF4218 [IPR025452] (1)	scaffold_7_mRNA_2061.1	C_unshiu_00703_mRNA_14.1	-	
GF0023611	1	1	0	Hypothetical protein (2)	heme binding [GO:0020307 molecular_function] (2); iron ion binding [GO:0005506 molecular_function] (3); oxidation-reduction process [GO:005114 biological_process] (2); oxoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] (2)	Cytochrome P450 [IPR001128] (2); Domain of unknown function DUF4216 [IPR005112] (1); Cytochrome P450, E-class, group I [IPR002401] (1); Domain of unknown function DUF4218 [IPR025452] (1)	scaffold_7_mRNA_2056.1	C_unshiu_01521_mRNA_3.1	-	
GF0023610	1	1	0	Hypothetical protein (2)	Cytochrome P450 [IPR001128] (2); Domain of unknown function DUF4216 [IPR005112] (1); Cytochrome P450, E-class, group I [IPR002401] (1); Domain of unknown function DUF4218 [IPR025452] (1)	scaffold_7_mRNA_2052.1	C_unshiu_01894_mRNA_4.1	-	-	
GF0023608	1	1	0	Hypothetical protein (2)		scaffold_7_mRNA_2040.1	C_unshiu_00763_mRNA_1.1	-	-	
GF0023603	1	1	0	Hypothetical protein (2)		scaffold_7_mRNA_2015.1	C_unshiu_01047_mRNA_6.1	-	-	
GF0023602	1	1	0	Cyclic nucleotide-gated ion channel, putative (2)	cyclic nucleotide-binding domain [IPR000891] (2); fold [IPR014710] (2); Cyclic nucleotide-binding-like [IPR018490] (2); ion channel transport domain [IPR005821] (2)	Cyclic nucleotide-binding domain [IPR000891] (2); fold [IPR014710] (2); Cyclic nucleotide-binding-like [IPR018490] (2); ion channel transport domain [IPR005821] (2)	scaffold_7_mRNA_2003.1	C_unshiu_01243_mRNA_1.1	-	
GF0023601	1	1	0	Multidrug resistance associated protein 2 (1); ABC transporter C family member 13 (1)	Multidrug resistance associated protein 2 (1); ABC transporter C family member 13 (1)	ATPase activity, coupled to transmembrane movement of substances [GO:0006262 molecular_function] (2); transmembrane transport [GO:00055085 biological_process] (2); ATP binding [GO:0005524 molecular_function] (2)	ABC transporter, conserved site [IPR017971] (2); ABC transporter-like [IPR003439] (2); ABC transporter-type 1, transmembrane domain [IPR011527] (2); AAA+ ATPase domain [IPR003595] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2)	scaffold_7_mRNA_1993.1	C_unshiu_01243_mRNA_5.1	-
GF0023595	1	1	0	Disease resistance RPS2-like protein (1); Hypothetical protein (1)	Disease resistance RPS2-like protein (1); Hypothetical protein (1)	ADP binding [GO:0043531 molecular_function] (2)	Leucine-rich repeat domain, L domain-like [IPR032675] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC [IPR002182] (2)	scaffold_7_mRNA_1967.1	C_unshiu_01884_mRNA_1.1	-
GF0023594	1	1	0	Hypothetical protein (2)				scaffold_7_mRNA_1962.1	C_unshiu_02045_mRNA_5.1	-
GF0023592	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2)	W4D4-YVTN repeat-like-containing domain [IPR015943] (2); WD40 repeat [IPR001680] (2); WD40-repeat-containing domain [IPR017986] (2); WD40 repeat-containing-like repeat-containing domain [IPR015943] (2); Serine/arginine-rich domain [IPR015210] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Leucine-rich repeat, typical subtype [IPR003591] (2); iron hydrogenase, small subunit [IPR000149] (2); iron hydrogenase, large subunit, C-terminal [IPR004108] (2)	scaffold_7_mRNA_1936.1	C_unshiu_01836_mRNA_1.1	-	
GF0023590	1	1	0	Verticillium wilt resistance-like protein	protein binding [GO:0005515 molecular_function] (2)	ATP binding [GO:0005524 molecular_function] (2); protein kinase phosphotransferase activity [GO:00064648 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2); protein kinase serine/threonine kinase activity [GO:0004674 molecular_function] (1)	WD40-YVTN repeat-like-containing domain [IPR015943] (2); WD40 repeat [IPR001680] (2); WD40-repeat-containing domain [IPR017986] (2); WD40 repeat-containing-like repeat-containing domain [IPR015943] (2); Serine/arginine-rich domain [IPR015210] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Leucine-rich repeat, typical subtype [IPR003591] (2); iron hydrogenase, small subunit [IPR000149] (2); iron hydrogenase, large subunit, C-terminal [IPR004108] (2)	scaffold_7_mRNA_1932.1	C_unshiu_01728_mRNA_3.1	-
GF0023589	1	1	0	Hypothetical protein (2)				scaffold_7_mRNA_1921.1	C_unshiu_00344_mRNA_13.1	-
GF0023588	1	1	0	Hypothetical protein (1); Cysteine-rich RLK (Receptor-like kinase) protein (1)		Protein kinase-like domain [IPR011009] (2); Protein kinase domain [IPR000719] (2); WD40-repeat-containing domain [IPR017986] (2); WD40 repeat [IPR001680] (2); Serine/arginine-rich domain [IPR015943] (2); Concansaccharide-binding domain [IPR008271] (2); WD40-YVTN repeat-like-containing domain [IPR015943] (2); A-like lecithin/glyceran domain [IPR013320] (1); Leucine-rich repeat domain, L domain-like [IPR032675] (1); Serine/arginine-rich repeat [IPR001611] (1); Serine/threonine-protein kinase catalytic domain [IPR001245] (1); Serine/threonine dual specificity protein kinase domain [IPR002290] (1); S-nitroso receptor kinase, C-terminal [IPR021820] (1)	scaffold_7_mRNA_1920.1	C_unshiu_00344_mRNA_14.1	-	
GF0023587	1	1	0	RNA polymerase I-specific transcription initiation factor RRN3 (2)		RNA polymerase I-specific transcription initiation factor RRN3 [IPR007991] (2)	scaffold_7_mRNA_19.1	C_unshiu_00706_mRNA_7.1	-	
GF0023586	1	1	0	Hypothetical protein (2)		Plant self-incompatibility SI [IPR010264] (2)	scaffold_7_mRNA_1888.1	C_unshiu_00302_mRNA_3.1	-	
GF0023585	1	1	0	Hypothetical protein (2)				scaffold_7_mRNA_1886.1	C_unshiu_00302_mRNA_5.1	-
GF0023584	1	1	0	Hypothetical protein (2)				scaffold_7_mRNA_1866.1	C_unshiu_00302_mRNA_25.1	-
GF0023583	1	1	0	UPF0481 plant-like protein (2)		Protein of unknown function DUF247, plant [IPR004158] (2); Ankyrin repeat-containing domain [IPR020683] (2); PGG domain [IPR02661] (2); Ankyrin repeat [IPR02110] (1)	scaffold_7_mRNA_1862.1	C_unshiu_00302_mRNA_29.1	-	
GF0023582	1	1	0	Ankyrin repeat plant-like protein (1); Ankyrin repeat protein (1)	protein binding [GO:0005515 molecular_function] (1)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC AAA+ ATPase domain [IPR003593] (1)	scaffold_7_mRNA_1847.1	C_unshiu_02133_mRNA_1.1	-	
GF0023581	1	1	0	NBS-LRR type disease resistance protein (2)	ADP binding [GO:0043531 molecular_function] (2)	Coactivator CBP, KIX domain [IPR003101] (2)	scaffold_7_mRNA_1843.1	C_unshiu_02601_mRNA_4.1	-	
GF0023580	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0008655 biological_process] (2); transcription cofactor activity [GO:0003712 molecular_function] (2)					
GF0023579	1	1	0	Hypothetical protein (2)				scaffold_7_mRNA_1839.1	C_unshiu_01605_mRNA_7.1	-

ID	Num. in <i>C. clementine</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0023578	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L-domain-like [IPR032675] (1); Proteinase inhibitor 13, Kuniz legume-like [IPR002160] (2); Kuniz inhibitor ST1-like [IPR011065] (2)	scaffold_7_mRNA_1826.1	C_unshiu_01319_mRNA_2.1	-
GF0023577	1	1	0	Miraculin (2)	endopeptidase inhibitor activity [GO:0004866 molecular_function] (2)	[IPR002160] (2); Kuniz inhibitor ST1-like [IPR011065] (2)	scaffold_7_mRNA_1802.1	C_unshiu_01097_mRNA_13.1	-
GF0023572	1	1	0	Hypothetical protein (2)		Aspartic peptidase domain [IPR021109]	scaffold_7_mRNA_1744.1	C_unshiu_00460_mRNA_13.1	-
GF0023571	1	1	0	Hypothetical protein (2)		P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC [IPR002182] (2); Leucine-rich repeat [IPR00111] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_7_mRNA_1709.1	C_unshiu_00877_mRNA_7.1	-
GF0023569	1	1	0	Disease resistance protein RFL1, putative protein binding [GO:0005515 0 (1); Disease resistance RPS5-like protein (1)]	disease resistance protein RFL1, putative protein binding [GO:0005515 molecular_function] (2); ADP binding [GO:0043531 molecular_function] (2)				
GF0023565	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular_function] (2); regulation of transcription, DNA-templated [GO:0006355 biological_process] (2)	Zinc finger, PMZ-type [IPR006564] (2); Zinc finger, SWIM-type [IPR007572] (2)	scaffold_7_mRNA_1683.1	C_unshiu_00352_mRNA_13.1	-
GF0023563	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Zinc finger, PMZ-type [IPR006564] (2); Zinc finger, SWIM-type [IPR007572] (2)	scaffold_7_mRNA_1590.1	C_unshiu_00404_mRNA_8.1	-
GF0023562	1	1	0	Hypothetical protein (2)		Deaminase or unknown function DUF4283 [IPR025576] (2)			
GF0023561	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (1)	Endonuclease/exonuclease/phosphatase [IPR005135] (2); Zinc knuckle CX2C-X4HXC4C [IPR025833] (2); Zinc finger, CCHC-type [IPR0021878] (2); Ribonuclease H-like domain [IPR012337] (1); Reverse transcriptase zinc-binding domain [IPR026960] (1)	scaffold_7_mRNA_1569.1	C_unshiu_01362_mRNA_6.1	-
GF0023559	1	1	0	Hypothetical protein (2)		Protein of unknown function DUF761, plant [IPR008480] (2)	scaffold_7_mRNA_1544.1	C_unshiu_01309_mRNA_11.1	-
GF0023555	1	1	0	Hypothetical protein (2)		Protein of unknown function DUF761, plant [IPR008480] (2)	scaffold_7_mRNA_1525.1	C_unshiu_02526_mRNA_3.1	-
GF0023554	1	1	0	Disease resistance protein (2)	ADP binding [GO:0043531 molecular_function] (2); protein binding [GO:0005515 molecular_function] (1)				
GF0023551	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L-domain-like [IPR032675] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC [IPR002182] (2); AAA-ATPase domain [IPR003593] (1); Leucine-rich repeat [IPR001611] (1)	scaffold_7_mRNA_1506.1	C_unshiu_00451_mRNA_19.1	-
GF0023550	1	1	0	Hypothetical protein (2)	union transport [GO:0006820 biological_process] (2); membrane [GO:0016020 cellular_component] (2); inorganic anion exchanger activity [GO:0005452 molecular_function] (2); integral component of membrane [GO:0016021 cellular_component] (2)		scaffold_7_mRNA_1493.1	C_unshiu_01130_mRNA_4.1	-
GF0023549	1	1	0	Boron transporter (2)		Bicarbonate transporter, C-terminal [IPR011531] (2); Bicarbonate transporter, eukaryotic [IPR003020] (2)	scaffold_7_mRNA_1491.1	C_unshiu_01130_mRNA_2.1	-
GF0023548	1	1	0	ECA1 gametogenesis related family (1); Egg cell-secreted protein 1.4 (1)		Prolamin-like domain [IPR008502] (2)	scaffold_7_mRNA_1484.1	C_unshiu_01754_mRNA_3.1	-
GF0023546	1	1	0	Disease resistance protein RPS2 (1); Disease resistance protein (1)	ADP binding [GO:0043531 molecular_function] (2)	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC [IPR002182] scaffold_7_mRNA_1469.1		C_unshiu_00989_mRNA_16.1	-
GF0023545	1	1	0	Molybdate transporter 1-like protein (2)	molybdate ion transport [GO:0015689 biological_process] (2); molybdate transmembrane transporter activity [GO:0004998 molecular_function] (2); integral component of membrane [GO:0016021 cellular_component] (1)	Molybdate transporter 1/2 [IPR031563] (2); Molybdate transporter 1, plant [IPR030161] (1)	scaffold_7_mRNA_1453.1	C_unshiu_00924_mRNA_2.1	-
GF0023544	1	1	0	Hypothetical protein (2)					
GF0023542	1	1	0	Hypothetical protein (2)	polysaccharide binding [GO:0002474 molecular_function] (2)	Wall-associated receptor kinase, galacturonan-binding domain [IPR025287] (2)	scaffold_7_mRNA_1439.1	C_unshiu_00975_mRNA_1.1	-
GF0023541	1	1	0	Auxin-induced protein IAA6 (2)	protein binding [GO:0005151 molecular_function] (2); regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); nucleus [GO:0005634 cellular_component] (2)	PB1 domain [IPR000270] (2); AUX/IAA protein [IPR003311] (2); AUX/IAA domain [IPR003389] (1)	scaffold_7_mRNA_1403.1	C_unshiu_00496_mRNA_5.1	-
GF0023539	1	1	0	Putative glycosyltransferase ypfH (2)		Glycosyl transferase, family 1 [IPR001296] (2)	scaffold_7_mRNA_1388.1	C_unshiu_00496_mRNA_19.1	-
GF0023538	1	1	0	LRR receptor-like kinase family protein (2)	protein binding [GO:0005151 molecular_function] (2); protein kinase activity [GO:0004672 molecular_function] (2)	Protein kinase-like domain [IPR011009] (2); Serine/threonine kinase domain [IPR032675] (2); Serine/threonine kinase domain [IPR000719] (2); Leucine-rich repeat [IPR001611] (2); Serine/threonine-protein kinase active site [IPR008271] (2); Protein kinase, ATP-consuming [IPR007744] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR003591] (1); Concordan A-like leucine-rich repeat domain [IPR003320] (1); Serine/threonine-protein kinase catalytic domain [IPR001245] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_7_mRNA_1383.1	C_unshiu_00372_mRNA_5.1	-
GF0023537	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Protein kinase-like domain [IPR011009] (2); Serine/threonine kinase domain [IPR000719] (2); Serine/threonine-protein kinase active site [IPR008271] (2); Protein kinase, ATP-consuming [IPR007744] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR003591] (1); Concordan A-like leucine-rich repeat domain [IPR003320] (1); Serine/threonine-protein kinase catalytic domain [IPR001245] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_7_mRNA_1382.1	C_unshiu_01453_mRNA_4.1	-
GF0023536	1	1	0	LRR receptor-like kinase family protein (2)	protein binding [GO:0005151 molecular_function] (2); protein kinase activity [GO:0004672 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2); ATP binding [GO:0005524 molecular_function] (2)	Protein kinase domain [IPR000719] (2); Serine/threonine-protein kinase, catalytic domain [IPR001611] (2); Serine/threonine-protein kinase, active site [IPR008271] (2); Protein kinase, ATP-consuming [IPR007744] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR003591] (1); Serine/threonine kinase domain [IPR013320] (1); Serine/threonine-protein kinase domain [IPR013210] (1); Serine/threonine-protein kinase, catalytic domain [IPR001245] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_7_mRNA_1374.1	C_unshiu_00982_mRNA_7.1	-
GF0023535	1	1	0	Hypothetical protein (2)					
GF0023534	1	1	0	Hypothetical protein (2)					
GF0023533	1	1	0	Hypothetical protein (2)					
GF0023532	1	1	0	RNA-dependent RNA polymerase 1c (2)	RNA-dependent RNA polymerase activity [GO:0000098 molecular_function] (1); RNA-directed 5'-3' RNA polymerase activity [GO:0000968 molecular_function] (1)	RNA-dependent RNA polymerase, eukaryotic-type [IPR007855] (2)	scaffold_7_mRNA_1361.1	C_unshiu_00595_mRNA_26.1	-
GF0023530	1	1	0	FAD-binding Berberine family protein (2)	oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0005514 molecular_function] (2); flavonoid 3-O-glucosidase domain [GO:0009646 molecular_function] (2); catalytic activity [GO:000824 molecular_function] (2); oxido-reductase activity, acting on CH-OH group of donors [GO:0016614 molecular_function] (2)	Berberine/berberine-like [IPR012951] (2); FAD-binding, type 2, subdomain 1 [IPR001295] (2); FAD-binding, type 2, subdomain 2 [IPR001296] (2); FAD-linker oxidase, N-terminal [IPR006094] (2); FAD-binding, type 2 [IPR016166] (2)	scaffold_7_mRNA_1358.1	C_unshiu_00595_mRNA_28.1	-
GF0023529	1	1	0	Hypothetical protein (2)					
GF0023528	1	1	0	Hypothetical protein (2)					
GF0023526	1	1	0	Hypothetical protein (2)					
GF0023525	1	1	0	Hypothetical protein (1); Mitochondrial-processing peptidase subunit alpha (1)	catalytic activity [GO:0003824 molecular_function] (1); metal ion binding [GO:0046872 molecular_function] (1)	Peptidase M16 domain [IPR011237] (1); Metalloenzymes, LuxS/M16 peptidase-like [IPR011249] (1)	scaffold_7_mRNA_1372.1	C_unshiu_01521_mRNA_8.1	-
GF0023524	1	1	0	Hypothetical protein (2)					
GF0023523	1	1	0	Hypothetical protein (1); Transposon protein, putative, unclassified, expressed (1)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2)	FHY3/FAR1 family [IPR031052] (2); MULE transposase domain [IPR018289] (2); FAR1 DNA binding domain [IPR004330] (1)	scaffold_7_mRNA_1370.1	C_unshiu_01958_mRNA_3.1	-
GF0023522	1	1	0	Hypothetical protein (2)					
GF0023521	1	1	0	Hypothetical protein (2)					

ID	Num in <i>C. clementinae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0023520	1	1	0	Glyoxylate reductase (2)	metabolic process [GO:0008152]; biological_process [1]; NAD binding [GO:001287 molecular_function] [2]; oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor [GO:001616]; molecular_function [1]; oxidation-reduction process [GO:0055114]; metabolic_process [2]; biological_process [2]	D-isomer specific 2-hydroxyacid dehydrogenase, catalytic domain [IPR006139] (2); D-isomer specific 2-hydroxyacid dehydrogenase; NAD-binding domain [IPR006140] (2); NAD(P)-binding domain [IPR016040] (2)	scaffold_7_mRNA_1261.1	C_unshiu_00221_mRNA_37.1	-
GF0023519	1	1	0	Glyoxylate reductase (2)	metabolic process [GO:0008152]; biological_process [2]; oxidation-reduction process [GO:0055114]; biological_process [1]; NAD binding [GO:001287 molecular_function] [2]; oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor [GO:001616]; molecular_function [2]	D-isomer specific 2-hydroxyacid dehydrogenase, catalytic domain [IPR006139] (2); NAD(P)-binding domain [IPR016040] (2); D-isomer specific 2-hydroxyacid dehydrogenase, NAD-binding domain [IPR006140] (2)	scaffold_7_mRNA_1260.1	C_unshiu_00221_mRNA_36.1	-
GF0023518	1	1	0	Hypothetical protein (2)	-	-	scaffold_7_mRNA_1252.1	C_unshiu_00221_mRNA_26.1	-
GF0023516	1	1	0	Hypothetical protein (2)	-	-	scaffold_7_mRNA_1246.1	C_unshiu_00221_mRNA_21.1	-
GF0023515	1	1	0	Hypothetical protein (2)	-	-	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat domain [IPR013101] (2)	C_unshiu_00221_mRNA_20.1	-
GF0023514	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677]; molecular_function [2]	Homeodomain-like [IPR009057] (1); Homeobox domain-like [IPR009057] (1)	scaffold_7_mRNA_1244.1	C_unshiu_00221_mRNA_19.1	-
GF0023512	1	1	0	Hypothetical protein (2)	catalytic activity [GO:0003824]; molecular_function [2]; metabolic_process [GO:0008152]; biological_process [2]	Homobox domain-like [IPR009057] (1); scaffold_7_mRNA_124.1	C_unshiu_00353_mRNA_16.1	-	
GF0023511	1	1	0	Hypothetical protein (2)	-	Isochorismatase-like [IPR006882] (2)	scaffold_7_mRNA_1238.1	C_unshiu_00221_mRNA_15.1	-
GF0023508	1	1	0	Hypothetical protein (2)	-	Endonuclease/exonuclease/phosphatase [IPR005135] (1)	scaffold_7_mRNA_1211.1	C_unshiu_00603_mRNA_3.1	-
GF0023502	1	1	0	Hypothetical protein (2)	-	Malcin-like carbohydrate-binding domain [IPR024785] (2); Protein kinase domain [IPR001091] (1); Protein kinase-like domain [IPR001090] (1); Leucine-rich repeat domain, L-domain-like [IPR032675] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_7_mRNA_1156.1	C_unshiu_00121_mRNA_20.1	-
GF0023501	1	1	0	Hypothetical protein (1); Carbohydrate-binding protein of the ER protein (1)	ATP binding [GO:0005524]; molecular_function [1]; protein phosphorylation [GO:0006468]; biological_process [1]; protein kinase activity [GO:0004672]; molecular_function [1]	Globin-like [IPR009050] (2); Globin [IPR00071] (2); Globin, Protoglobin [IPR012292] (1); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_7_mRNA_1145.1	C_unshiu_00121_mRNA_28.1	-
GF0023495	1	1	0	Hypothetical protein (2)	oxygen binding [GO:0019825]; molecular_function [2]; heme binding [GO:0020037 molecular_function] (2)	Globin-like [IPR009050] (2); Globin [IPR00071] (2); Globin, Protoglobin [IPR012292] (1); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_7_mRNA_1108.1	C_unshiu_00121_mRNA_60.1	-
GF0023494	1	1	0	Hypothetical protein (2)	-	P-loop containing nucleoside triphosphate hydrolase, NTPase [IPR001082] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_7_mRNA_1100.1	C_unshiu_00121_mRNA_68.1	-
GF0023488	1	1	0	Pathogenic disease resistance protein RGAs3	ADP binding [GO:0043531]; (1); Disease resistance protein (1)	P-loop containing nucleoside triphosphate hydrolase, NTPase [IPR001082] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_7_mRNA_1065.1	C_unshiu_00065_mRNA_55.1	-
GF0023487	1	1	0	Disease resistance protein RPM1 (2)	ADP binding [GO:0043531]; molecular_function [2]	Winged helix-turn-helix DNA-binding domain [IPR011991] (2); Zinc ion-binding protein Lgus1 [IPR006630] (2)	scaffold_7_mRNA_1053.1	C_unshiu_00065_mRNA_60.1	-
GF0023485	1	1	0	LA-related protein 6 LA RNA-binding domain protein (2)	-	Winged helix-turn-helix DNA-binding domain [IPR011991] (2); Zinc ion-binding protein Lgus1 [IPR006630] (2)	scaffold_7_mRNA_104.1	C_unshiu_01418_mRNA_1.1	-
GF0023482	1	1	0	D6-type cyclin isoform 1 (2)	nucleus [GO:0005634]; cellular_component [2]; regulation of cell cycle [GO:0051726]; biological_process [1]	Cyclin, N-terminal [IPR006651] (2); Cyclin-like [IPR013763] (2); Cyclin, C-terminal domain [IPR004367] (2); Cyclid, D. plant [IPR031093] (1)	scaffold_7_mRNA_1000.1	C_unshiu_00065_mRNA_14.1	-
GF0023481	1	1	0	Hypothetical protein (2)	-	scaffold_7_mRNA_1.1	C_unshiu_00069_mRNA_100.1	-	
GF0023479	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_971.1	C_unshiu_00322_mRNA_27.1	-	
GF0023478	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_970.1	C_unshiu_00322_mRNA_28.1	-	
GF0023477	1	1	0	Hypothetical protein (2)	-	Gag-polypeptide of LTR copoly-type [IPR029472] (1); Zinc finger, CCHC-type [IPR0001878] (1)	scaffold_6_mRNA_97.1	C_unshiu_00378_mRNA_9.1	-
GF0023476	1	1	0	Hypothetical protein (2)	-	Zinc finger, CCHC-type [IPR001878] (2); Zinc knuckle CX2CX2 domain [IPR025936] (2); Domain of unknown function DU-423 [IPR025535] (2)	scaffold_6_mRNA_954.1	C_unshiu_00964_mRNA_1.1	-
GF0023475	1	1	0	Hypothetical protein (2)	-	Reverse transcriptase zinc-binding domain [IPR026960] (2)	scaffold_6_mRNA_953.1	C_unshiu_01179_mRNA_1.1	-
GF0023474	1	1	0	Polymerase I, H fold (2)	-	Reverse transcriptase zinc-binding domain [IPR026960] (2)	scaffold_6_mRNA_952.1	C_unshiu_01179_mRNA_4.1	-
GF0023473	1	1	0	Taberosine 16-O-methyltransferase (2)	O-methyltransferase activity [GO:0008171 molecular_function] (1); O-methyltransferase activity [GO:0008168 molecular_function] (2)	S-adenosyl-L-methionine:acyl-ester methyltransferase [IPR029085] (2); O-methyltransferase family 2 [IPR001077] (2); O-methyltransferase COMT-type [IPR016461] (2)	scaffold_6_mRNA_949.1	C_unshiu_00530_mRNA_12.1	-
GF0023472	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_939.1	C_unshiu_00407_mRNA_19.1	-	
GF0023471	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_938.1	C_unshiu_00407_mRNA_18.1	-	
GF0023470	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_936.1	C_unshiu_00407_mRNA_17.1	-	
GF0023469	1	1	0	Hypothetical protein (2)	cytose-type peptidase activity [GO:0000234 molecular_function] (1); proteolysis [GO:000508 molecular_function] (1); biological_process [1]	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (1)	scaffold_6_mRNA_924.1	C_unshiu_00407_mRNA_2.1	-
GF0023467	1	1	0	Hypothetical protein (2)	transcription, DNA-templated [GO:0006351 biological_process] (2); nucleus [GO:0005634]; cellular_component [2]; zinc ion binding [GO:0008270 molecular_function] (1)	Transcription elongation factor S-II, central domain [IPR004318] (2); Transcription elongation factor S-IIIM [IPR17890] (1)	scaffold_6_mRNA_902.1	C_unshiu_00539_mRNA_5.1	-
GF0023466	1	1	0	Non-LTR retroelement reverse transcriptase (2)	nucleic acid binding [GO:0003676 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2)	scaffold_6_mRNA_90.1	C_unshiu_00646_mRNA_18.1	-
GF0023464	1	1	0	Zinc finger CCHC domain-containing protein 32 (2)	metal ion binding [GO:0046872 molecular_function] (2)	Zinc finger, CCHC-type [IPR000571] (2) scaffold_6_mRNA_894.1	C_unshiu_00104_mRNA_54.1	-	
GF0023463	1	1	0	Hydroxylaminohydrolase trans-acting-like protein (2)	-	Protein of unknown function DUF707 [IPR007877] (2)	scaffold_6_mRNA_893.1	C_unshiu_01014_mRNA_53.1	-
GF0023461	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_882.1	C_unshiu_00222_mRNA_3.1	-	
GF0023459	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_872.1	C_unshiu_00529_mRNA_16.1	-	
GF0023458	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_871.1	C_unshiu_00393_mRNA_13.1	-	
GF0023457	1	1	0	3-ketoacyl-CoA synthase 11 (2)	catalytic activity [GO:0003824 molecular_function] (2); fatty acid biosynthetic process [GO:0006353 biological_process] (2)	Thioether-like [IPR016039] (2); Very-long-chain 3-ketoacyl-CoA synthase [IPR012392] (2); FAE1/Tyrosine III polypeptide-like protein [IPR013601] (2); 3-Oxacyl-[acyl-carrier-protein] synthase III, C-terminal [IPR013747] (2)	scaffold_6_mRNA_860.1	C_unshiu_00393_mRNA_21.1	-
GF0023456	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_859.1	C_unshiu_00446_mRNA_18.1	-	
GF0023455	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_848.1	C_unshiu_00382_mRNA_5.1	-	
GF0023454	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_847.1	C_unshiu_00882_mRNA_6.1	-	
GF0023453	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_841.1	C_unshiu_00882_mRNA_10.1	-	
GF0023452	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_841	C_unshiu_01116_mRNA_2.1	-	
GF0023451	1	1	0	Hypothetical protein (2)	Chromlo domain [IPR023780] (2); Chromo domain-like [IPR016197] (2)	scaffold_6_mRNA_833.1	C_unshiu_00432_mRNA_2.1	-	
GF0023450	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_825.1	C_unshiu_00257_mRNA_20.1	-	
GF0023448	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_815.1	C_unshiu_00257_mRNA_15.1	-	
GF0023447	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_814.1	C_unshiu_00257_mRNA_14.1	-	
GF0023445	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_798.1	C_unshiu_00382_mRNA_3.1	-	
GF0023444	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_797.1	C_unshiu_00323_mRNA_19.1	-	
GF0023443	1	1	0	MuDR family transposase isoform 1 (2)	zinc ion binding [GO:0008270 molecular_function] (2)	Zinc finger, CWDPCP [IPR007527] (2); Transposase, MULE-type [IPR004332] (2); MULE transposase [IPR004183] (2); Zinc finger, PMZ-type [IPR006564] (2)	scaffold_6_mRNA_791.1	C_unshiu_00120_mRNA_10.1	-
GF0023442	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_783.1	C_unshiu_01590_mRNA_3.1	-	
GF0023440	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_764.1	C_unshiu_00147_mRNA_31.1	-	

ID	Num in <i>C. clementiae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0023349	1	1	0	Hypothetical protein (2)	glucose metabolic process [GO:0006006]; biological process [2]; oxidation-reduction process [GO:0055114]; biological process [2]; glucose-6-phosphate dehydrogenase activity [GO:0004345 molecular function] [2]; NADP binding [GO:0050661 molecular function] [2]	Glucose-6-phosphate dehydrogenase [IPR001282]; Glucose-6-phosphate dehydrogenase, C-terminal [IPR022675]; (2)	scaffold_6_mRNA_31.1	C_unshiu_00464_mRNA_13.1	-
GF0023348	1	1	0	Hypothetical protein (1); PLATZ transcription factor family protein (1)	Protein of unknown function DUF597 [IPR006734] (2)	scaffold_6_mRNA_309.1	C_unshiu_01082_mRNA_4.1	-	
GF0023346	1	1	0	Hypothetical protein (2)	Protein of unknown function DU295 [IPR005174] (1)	scaffold_6_mRNA_307.1	C_unshiu_01082_mRNA_6.1	-	
GF0023345	1	1	0	Hypothetical protein (2)	Serine-threonine-protein kinase, active site [IPR008271]; (2); Protein kinase domain [IPR017441] (2); Protein kinase-like domain [IPB011009]; (2); Serine-threonine-tyrosine-protein kinase catalytic domain [IPR001245] (1); Concavocalin A-like lectin/glycoside domain [IPB013320] (1)	scaffold_6_mRNA_3065.1	C_unshiu_00654_mRNA_6.1	-	
GF0023344	1	1	0	Protein kinase APK1A (2)	ATP binding [GO:0005524 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (2); protein kinase activity [GO:0004672 molecular function] (2)	Protein kinase catalytic domain [IPR001245]; (2)	scaffold_6_mRNA_3058.1	C_unshiu_00135_mRNA_16.1	-
GF0023342	1	1	0	Caffeic acid O-methyltransferase (2)	O-methyltransferase activity [GO:0004117 molecular function] (2); protein dimerization activity [GO:0046983 molecular function] (2); O-methyltransferase activity [GO:0009168 molecular function] (2)	O-methyltransferase, family 2 [IPR001077] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (2); O-methyltransferase (MTM) [IPR01661] (2); Plant methyltransferase dimerization [IPR012967] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (2)	scaffold_6_mRNA_3040.1	C_unshiu_02673_mRNA_2.1	-
GF0023341	1	1	0	Polyvinylalcohol dehydrogenase-like protein (2)	Pyrrole-quoline quinone beta-propeller repeat [IPR018391] (2); Quinoprotein alpha hydroxylase superfamily [IPR011047] (2); Pyruvate-quinone reductase [IPR002372] (2); Quinoprotein alcohol dehydrogenase-like domain [IPR027295] (1)	scaffold_6_mRNA_3035.1	C_unshiu_00135_mRNA_40.1	-	
GF0023339	1	1	0	Hypothetical protein (1); Spo11-3/Rhl2/Bin5/Tsp6A3; vegetative liposomerase VIA (1)	DNA binding [GO:0003677 molecular function] (2); chromosome [GO:0000001 cellular component] (2); DNA endonuclease 1 endonucleolytic [GO:0000737 biological process] (2); DNA topoisomerase type II (ATP-hydrolyzing) activity [GO:0003918 molecular function] (2); DNA metabolic process [GO:0006259 biological process] (2); DNA topological change [GO:0006265 biological process] (1); ATP binding [GO:0005524 molecular function] (1); catalytic activity [GO:0003824 molecular function] (1)	Spo11/DNA topoisomerase VI subunit A [IPR02815] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1); DNA topoisomerase IV subunit A; Spo11; TOPRIM domain [IPR03411] (1); Spo11/DNA topoisomerase VI, subunit A, N-terminal [IPR013049] (1); DNA topoisomerase VI, subunit A [IPR00485] (1)	scaffold_6_mRNA_3016.1	C_unshiu_00135_mRNA_54.1	-
GF0023338	1	1	0	Putative mitochondrial chaperone BCS1-B (2)	ATP binding [GO:0005524 molecular function] (2)	ATPase, AAA-type, conserved site [IPR001077] (2); ATPase, AAA-type, core [IPR001077] (2); nucleotide-containing nucleoside triphosphate hydrolase [IPR027417] (2); AAA-type ATPase, N-terminal domain [IPR025753] (2); AAA+ ATPase domain [IPR00359] (2)	scaffold_6_mRNA_3000.1	C_unshiu_00420_mRNA_11.1	-
GF0023332	1	1	0	Hypothetical protein (2)	Leucine-rich repeat domain, L domain-like [IPR032675] (1); FBD domain [IPR006566] (1)	scaffold_6_mRNA_2972.1	C_unshiu_00133_mRNA_46.1	-	
GF0023329	1	1	0	Hypothetical protein (2)	Alpha/Beta hydrolase fold [IPR029058] (2); Alpha/Beta hydrolase fold-5 [IPR029059] (1); Serine arypeptidase S33 [IPR022742] (1)	scaffold_6_mRNA_2957.1	C_unshiu_00133_mRNA_29.1	-	
GF0023328	1	1	0	Abhydrolase domain-containing protein (2)	GH3 family [IPR004991] (2)	scaffold_6_mRNA_2945.1	C_unshiu_00133_mRNA_14.1	-	
GF0023327	1	1	0	Hypothetical protein (2)	Protein kinase, ATP binding site [IPR017441] (2); Protein kinase domain [IPR000719] (2); Protein kinase-like domain [IPR011009] (2); Malicin-like carbohydrate-binding domain [IPR024788] (2); Serine/threonine-protein kinase, catalytic domain [IPR001245] (1); Serine/threonine-tyrosine-protein kinase, catalytic domain [IPR001245] (1); Tyrosine-protein kinase, catalytic domain [IPR001355] (1); Concavocalin A-like lectin/glycoside domain [IPR013320] (1)	scaffold_6_mRNA_294.1	C_unshiu_00178_mRNA_27.1	-	
GF0023326	1	1	0	Hypothetical protein (2)	NADH-ubiquinone oxidoreductase complex I [IPR001530] (2); MLLQ subunit [IPR01530] (2); Phosphatidylmonooctyl-specific phospholipase C, X domain [IPR000909] scaffold_6_mRNA_2911.1 (2); PLC-like phosphodiesterase, TIM beta-alpha-beta-barrel domain [IPR017946] (2)	scaffold_6_mRNA_2926.1	C_unshiu_00253_mRNA_5.1	-	
GF0023325	1	1	0	Receptor-like protein kinase FERONIA (2)	Tetrastricopeptide-like helical domain [IPR011990] (2); Pentatricopeptide repeat [IPR003285] (2)	scaffold_6_mRNA_2895.1	C_unshiu_00253_mRNA_37.1	-	
GF0023324	1	1	0	PLC-like phosphodiesterases superfamily protein (2)	S-adenosylmethionine decarboxylase [IPR001985] (2); S-adenosylmethionine decarboxylase [IPR000808 biological process] (2); S-adenosylmethionine-decarboxylase activity [GO:0004014 molecular function] (2)	scaffold_6_mRNA_2876.1	C_unshiu_00098_mRNA_50.1	-	
GF0023322	1	1	0	Pentatricopeptide (PPR) repeat protein (2)	Protein binding [GO:0005515 molecular function] (2)	scaffold_6_mRNA_2869.1	C_unshiu_00098_mRNA_45.1	-	
GF0023321	1	1	0	Hypothetical protein (2)	S-adenosylmethionine decarboxylase [IPR001985] (2); S-adenosylmethionine decarboxylase [IPR000808 biological process] (2); S-adenosylmethionine-decarboxylase activity [GO:0004014 molecular function] (2)	scaffold_6_mRNA_2868.1	C_unshiu_00357_mRNA_6.1	-	
GF0023320	1	1	0	S-adenosylmethionine decarboxylase proenzyme (2)	Protein of unknown function DUF2854 [IPR021275] (2)	scaffold_6_mRNA_2842.1	C_unshiu_00098_mRNA_18.1	-	
GF0023319	1	1	0	DUF1262 family protein (2)	Protein of unknown function DUF1262 [IPR010683] (2)	scaffold_6_mRNA_2839.1	C_unshiu_00098_mRNA_14.1	-	
GF0023318	1	1	0	Transmembrane reverse tRNA translocase-like (1); Ribonuclease H-like superfamily protein (1)	Protein binding [GO:0003676 molecular function] (2)	scaffold_6_mRNA_2839.0 (2)	C_unshiu_00098_mRNA_14.1	-	
GF0023317	1	1	0	Accumulation of photosynthates to environment (2)	FAPM-19-esterase [IPR008590] (2)	scaffold_6_mRNA_2817.1	C_unshiu_00537_mRNA_16.1	-	
GF0023316	1	1	0	Plasma membrane associated protein (1); ABA induced plasma membrane protein (1)	Protein of unknown function DUF281 [IPR025461] (1); ABA-DEFICIENT 4-like [IPR025461] (1)	scaffold_6_mRNA_2816.1	C_unshiu_00537_mRNA_15.1	-	
GF0023314	1	1	0	Neoxanthin synthase (2)	flavin adenine dinucleotide binding [GO:0050660 molecular function] (2); oxoreductase activity [GO:0016491 molecular function] (2); flavin adenine dinucleotide-reducing oxidoreductase activity [GO:0005114 biological process] (2); UDP-N-acetylglucosamine dehydrogenase activity [GO:0008762 molecular function] (2); oxoreductase activity, acting on CH-OH group of donors [GO:0016614 molecular function] (2); catalytic activity [GO:0003824 molecular function] (2)	Alpha/Beta hydrolase fold [IPR02058] (2); Alpha/Beta hydrolase fold-1 [IPR000073] (2)	scaffold_6_mRNA_2813.1	C_unshiu_00537_mRNA_13.1	-
GF0023313	1	1	0	MutB reductase, putative isoform 1 (2)	Reductase [IPR003170] (2); UDP-N-acetylglucosamine reductase, C-terminal [IPR001200] (2); FAD linked oxidase, N-terminal [IPR006941] (2); FAD-binding, type 2 subdomain 1 [IPR016167] (2); CO dehydrogenase/flavoprotein-like, FAD-binding, subdomain 2 [IPR016169] (2)	scaffold_6_mRNA_2816.1	C_unshiu_00360_mRNA_15.1	-	
GF0023312	1	1	0	Alpha/beta hydrolase family protein (2)	Ankyrin repeat-containing domain [IPR020683] (2); Protein kinase-like domain [IPR011009] (2); Ankyrin repeat [IPR021210] (2); Protein kinase domain [IPR011919] (2); Serine/threonine-protein kinase, catalytic domain [IPR001245] (1); Ferritin-related [IPR012347] (1); Serine/threonine-protein kinase, catalytic domain [IPR001245] (1)	scaffold_6_mRNA_2811.1	C_unshiu_00366_mRNA_7.1	-	
GF0023311	1	1	0	Hypothetical protein (2)	Plant [IPR025322] (2)	scaffold_6_mRNA_2784.1	C_unshiu_00038_mRNA_73.1	-	
GF0023309	1	1	0	Hypothetical protein (2)	Ubiquinol-dependent protein catalytic process [GO:0006511 biological process] (2)	scaffold_6_mRNA_2760.1	C_unshiu_00038_mRNA_59.1	-	
GF0023307	1	1	0	Zinc finger protein, putative (1); Zinc finger CCHC domain-containing protein 39 (1)	protein binding [GO:0005515 molecular function] (2); protein kinase activity [GO:0004672 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (2)	scaffold_6_mRNA_2759.1	C_unshiu_00038_mRNA_58.1	-	
GF0023306	1	1	0	DUF4228 domain protein (2)	ubiquinol-dependent protein catalytic process [GO:0006511 biological process] (2)	scaffold_6_mRNA_2735.1	C_unshiu_00038_mRNA_31.1	-	
GF0023305	1	1	0	Integrin-linked protein kinase family isoform 1 (2)	Myo-type, basic helix-loop-helix (BLHL) domain [IPR011598] (2)	scaffold_6_mRNA_2718.1	C_unshiu_00038_mRNA_13.1	-	
GF0023303	1	1	0	Ubiquitin fusion degradation protein (2)	Ubiquitin fusion degradation protein UFD1 [IPR004854] (2)	scaffold_6_mRNA_2707.1	C_unshiu_00038_mRNA_6.1	-	
GF0023302	1	1	0	Transcription factor DYSFUNCTIONAL TAPETUM 1 (2)	Myo-type, basic helix-loop-helix (BLHL) domain [IPR011598] (2)	C_unshiu_00038_mRNA_6.1	-		
GF0023301	1	1	0	Hypothetical protein (2)	Ubiquitin fusion degradation protein UFD1 [IPR004854] (2)	C_unshiu_00038_mRNA_6.1	-		

ID	Num in <i>C. clementinae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0023299	1	1	0	Farnesylyltransferase (2)	soprendoxin biosynthetic process [GO:0008299 biological_process] (2)	Isoenzymoid synthase domain [IPR008949] (2); Polypremyl synthetase [IPR000992] (2); Polypremyl synthetase-related scaffold_6_mRNA_2698.1	C_unshiu_00704_mRNA_17.1	-	
GF0023298	1	1	0	Histidine-tRNA ligase/ATP phosphotransferase regulatory subunit (2)	cytoplasm [GO:0005737 cellular_component] (2)	phosphotransferase regulatory subunit [IPR004116] (2); Anticodon-binding [IPR004154] (2)	scaffold_6_mRNA_269.1	C_unshiu_00176_mRNA_11.1	-
GF0023296	1	1	0	CCR4-NOT transcription complex subunit 7 (2)	nucleic acid binding [GO:0003676 molecular_function] (2); nucleus [GO:0005634 cellular_component] (1)	Ribonuclease H-like domain [IPR012337] (2); Ribonuclease CA1 [IPR006411] (2)	scaffold_6_mRNA_2684.1	C_unshiu_00704_mRNA_1.1	-
GF0023294	1	1	0	Centromere protein V (2)	carbon-sulfur lyase activity [GO:0001684 molecular_function] (2); metabolic process [GO:0008152 biological_process] (2)	Glutathione-dependent formaldehyde-activating enzyme/conformer protein V [IPR006113] (2); Mst4-like [IPR011057] (2)	scaffold_6_mRNA_2659.1	C_unshiu_02047_mRNA_4.1	-
GF0023292	1	1	0	3'-oxoacyl-[acyl-carrier-protein] reductase FabG (2)	oxidoreductase activity [GO:0016491 molecular_function] (1); metabolic process [GO:0008152 biological_process] (1)	NAD(P)-binding domain [IPR016040] (2); Glucose/ribitol dehydrogenase [IPR02347] (1); Short-chain dehydrogenase/reductase SDR [IPR011990] (1); Long-chain dehydrogenase/reductase SDR [IPR02347] (1); Polyketide synthase, ketoreductase domain [IPR013968] (1)	scaffold_6_mRNA_2642.1	C_unshiu_00079_mRNA_56.1	-
GF0023290	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular_function] (2); protein binding [GO:00051515 molecular_function] (2)	Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Zinc finger, RING-type [IPR001841] (2)	scaffold_6_mRNA_2625.1	C_unshiu_00173_mRNA_7.1	-
GF0023289	1	1	0	Zinc finger protein, putative (2)	zinc ion binding [GO:0008270 molecular_function] (2); zinc ion binding [GO:00051515 molecular_function] (2)	Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Zinc finger, RING-type [IPR001841] (2)	scaffold_6_mRNA_2601.1	C_unshiu_00079_mRNA_19.1	-
GF0023288	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular_function] (2); zinc ion binding [GO:00051515 molecular_function] (2)	scaffold_6_mRNA_259.1	C_unshiu_00380_mRNA_7.1	-	
GF0023287	1	1	0	50S ribosomal protein L40 (2)	protein binding [GO:0005515 molecular_function] (2)	scaffold_6_mRNA_258.1	C_unshiu_01167_mRNA_15.1	-	
GF0023286	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular_function] (2); zinc ion binding [GO:00051515 molecular_function] (2)	Pentatricopeptide repeat [IPR002885] (2); Tetraproticopeptide-like helical domain [IPR011990] (1)	scaffold_6_mRNA_258.1	C_unshiu_00380_mRNA_8.1	-
GF0023285	1	1	0	E3 ubiquitin-protein ligase RING1 (2)	zinc ion binding [GO:0008270 molecular_function] (2); zinc ion binding [GO:00051515 molecular_function] (2)	Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Zinc finger, RING-type [IPR001841] (2)	scaffold_6_mRNA_2576.1	C_unshiu_01167_mRNA_5.1	-
GF0023284	1	1	0	LEM3 (Ligand-effect modulator 3) family protein (2)	membrane [GO:0016020 cellular_component] (2)	CD50/LEM3 family [IPR005045] (2)	scaffold_6_mRNA_2538.2	C_unshiu_00037_mRNA_33.2	-
GF0023283	1	1	0	Uridylate kinase, putative (2)	pyrimidine nucleotide biosynthesis process [GO:0006221 biological_process] (2); UMP kinase activity [GO:0016705 molecular_function] (2); cytoplasm [GO:0005737 cellular_component] (2)	Aspartate/glutamate/uridylate kinase [IPR001048] (2); Uridylate kinase, bacteria [IPR015963] (2)	scaffold_6_mRNA_2513.1	C_unshiu_00037_mRNA_60.1	-
GF0023282	1	1	0	Geranil 10-hydroxylase-like protein (2)	action on paired molecules involving transfer of molecular oxygen [GO:0016705 molecular_function] (2); oxidation-reduction process [GO:0005514 biological_process] (2)	Cytochrome P450, E-class, group I [IPR02401] (2); Cytochrome P450, conserved site [IPR017972] (2); Cytochrome P450 [IPR01128] (2)	scaffold_6_mRNA_2510.1	C_unshiu_00052_mRNA_18.1	-
GF0023281	1	1	0	Avr9/Cf-9 rapidly elicited protein 137, putative (1)	DUF3475 domain protein [IPR011375] (1)	Protein of unknown function DUF668 [IPR00074375] (2); Protein domain known [IPR00074375] (2); Zinc finger domain [IPR021841] (2)	scaffold_6_mRNA_2509.1	C_unshiu_00052_mRNA_20.1	-
GF0023278	1	1	0	PAN domain-containing protein (2)	recognition of pollen [GO:0048544 biological_process] (2)	PAN/Apple domain [IPR003609] (2); BtuB-like lectin domain [IPR001480] (2); S1-domain glycoprotein domain [IPR000585] (2)	scaffold_6_mRNA_2492.1	C_unshiu_00052_mRNA_36.1	-
GF0023277	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2)	F-box domain [IPR001810] (2)	scaffold_6_mRNA_249.1	C_unshiu_01219_mRNA_6.1	-
GF0023276	1	1	0	Probable F-box protein At1g01802 (2)	protein binding [GO:0005515 molecular_function] (2)	F-box domain [IPR001810] (2)	scaffold_6_mRNA_2460.1	C_unshiu_00052_mRNA_66.1	-
GF0023274	1	1	0	Terminal flower 1 (2)	negative regulation of flower development [GO:0009910 biological_process] (1); transcription co-factor activity [GO:0003712 molecular_function] (1)	TETRALYSINE 1-like [IPR00114] (1); TERMINAL FLOWER 1-like [IPR03114] (1); Phosphatidylethanolamine-binding protein [IPR008914] (1)	scaffold_6_mRNA_2443.1	C_unshiu_00046_mRNA_45.1	-
GF0023273	1	1	0	Iron-sulfur cluster assembly protein, putative (2)	structural molecule activity [GO:0005198 molecular_function] (2); iron-sulfur cluster binding [GO:0051536 molecular_function] (2); protein maturation by iron-sulfur cluster transfer [GO:0006226 biological_process] (1); iron-sulfur cluster assembly [GO:0016226 biological_process] (1)	FeS cluster biogenesis [IPR0003611] (2); FeS cluster insertion protein C-terminal, conserved site [IPR017870] (2)	scaffold_6_mRNA_2439.1	C_unshiu_02025_mRNA_2.1	-
GF0023272	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (1)	Pentatricopeptide repeat [IPR002885] (2); Tetraproticopeptide-like helical domain [IPR011990] (1)	scaffold_6_mRNA_2403.1	C_unshiu_00215_mRNA_46.1	-
GF0023271	1	1	0	Hypothetical protein (2)	zinc finger, FYVE/PHD-type [IPR001152] (2); Zinc finger, GNAT domain [IPR001152] (2); Zinc finger, PHD-type [IPR001965] (2); Zinc finger, RING/FYVE/PHD-type, conserved site [IPR019786] (2); Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Acyl-CoA acyltransferase [IPR011811] (2); Acyltransferase [IPR0023088] (2); Zinc finger, PHD-finger [IPR0119787] (2)	scaffold_6_mRNA_2386.1	C_unshiu_00215_mRNA_26.1	-	
GF0023269	1	1	0	PHD finger transcription factor (2)	N-acetyltransferase activity [GO:0008080 biological_process] (2); zinc ion binding [GO:0008270 molecular_function] (2); protein binding [GO:0005155 molecular_function] (2)	Zinc finger, FYVE/PHD-type [IPR001151] (2); Zinc finger, GNAT domain [IPR001152] (2); Zinc finger, PHD-type [IPR001965] (2); Zinc finger, RING/FYVE/PHD-type, conserved site [IPR019786] (2); Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Acyl-CoA acyltransferase [IPR011811] (2); Acyltransferase [IPR0023088] (2); Zinc finger, PHD-finger [IPR0119787] (2)	scaffold_6_mRNA_2378.1	C_unshiu_00215_mRNA_19.1	-
GF0023268	1	1	0	Hypothetical protein (2)	zinc finger-like-containing domain [IPR0116159] (2); Late embryogenesis abundant [LEA-14] [IPR004864] (2); Zinc finger, Cys-rich domain [IPR00140] (1); Immunoglobulin-like fold [IPR011783] (1); Exoyct complex component Exo70 [IPR004104] (1)	Cullin-like-containing domain [IPR0116159] (2); Late embryogenesis abundant [LEA-14] [IPR004864] (2); Zinc finger, Cys-rich domain [IPR00140] (1); Immunoglobulin-like fold [IPR011783] (1); Exoyct complex component Exo70 [IPR004104] (1)	scaffold_6_mRNA_2364.1	C_unshiu_00475_mRNA_21.1	-
GF0023263	1	1	0	Exocyst subunit EXO70 family protein (2)	exocytosis [GO:0006887 biological_process] (2); exocyst [GO:000145 cellular_component] (2)	Metal-dependent hydrolase [IPR001170] (2); Exo70 complex component Exo70 [IPR004104] (1)	scaffold_6_mRNA_2336.1	C_unshiu_00043_mRNA_61.1	-
GF0023261	1	1	0	TatD related DNase (2)	hydrolyase activity, acting on ester bonds [GO:0016788 molecular_function] (2)	Metal-dependent hydrolase [IPR001130] (2); TatD family [IPR001130] (2)	scaffold_6_mRNA_2316.1	C_unshiu_00043_mRNA_39.1	-
GF0023260	1	1	0	Carotenoid isomerase (2)	isomerization [GO:0005155 molecular_function] (2); carotenoid biosynthetic process [GO:0016117 biological_process] (2); isomerase activity [GO:0016853 molecular_function] (1); carotenoid isomerase [GO:0004608 molecular_function] (1)	FAD/NAD(P)-binding domain [IPR023753] (2); Amine oxidase [IPR002937] (2); Prolyopeptidase scaffold_6_mRNA_2293.1	C_unshiu_00043_mRNA_12.1	-	
GF0023259	1	1	0	Pentatricopeptide repeat-containing protein-like protein (1); Tetraproticopeptide repeat-like superfamily protein, putative isoform 1 (1)	pentatricopeptide repeat-containing domain [IPR0008168 molecular_function] (2); methylation [GO:0032295 biological_process] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	Pentatricopeptide repeat [IPR002885] (2); Tetraproticopeptide-like helical domain [IPR011990] (2); Zinc finger, Eif5 [IPR0033691] (2); DNA methylase, N4-adenosine-specific, conserved site [IPR020522] (1)	scaffold_6_mRNA_2269.1	C_unshiu_00273_mRNA_15.1	-
GF0023258	1	1	0	Fatty acyl-CoA reductase 3 (1); Fatty acyl-CoA reductase 1 (1)	fatty-acyl-CoA reductase (fahydro-forming) activity [GO:0008019 molecular_function] (2)	Male sterility; NAD-binding [IPR011312] (2); NAD(P)-binding domain [IPR01040] (2); Fatty acyl-CoA reductase C-terminal [IPR026055] (2); Fatty acyl-CoA reductase C-terminal [IPR033640] (1)	scaffold_6_mRNA_2254.1	C_unshiu_00273_mRNA_35.1	-
GF0023257	1	1	0	Hypothetical protein (2)	methane acid binding [GO:0003676 molecular_function] (2); metal ion binding [GO:0046872 molecular_function] (1)	Zinc finger C2H2-type/integrase-DNA-binding domain [IPR013087] (1); Zinc finger, C2H2 [IPR007087] (1); Zinc finger C2H2-type [IPR013087] (1)	scaffold_6_mRNA_2246.1	C_unshiu_00089_mRNA_2.1	-
GF0023256	1	1	0	Hypothetical protein (2)	cation transport [GO:0006812 biological_process] (2); integral membrane protein [GO:0016021 cellular_component] (2); cation transmembrane transporter activity [GO:00055085 molecular_function] (2); transmembrane transport [GO:00055085 biological_process] (2)	Cation efflux protein, cytoplasmic domain [IPR027470] (2); Cation efflux protein [IPR002524] (2); Cation efflux protein transmembrane domain [IPR027469] (1)	scaffold_6_mRNA_2233.1	C_unshiu_00089_mRNA_13.1	-
GF0023254	1	1	0	Metal tolerance protein 5 (2)	cell redox homeostasis [GO:0045454 biological_process] (2); zinc ion binding [GO:0006622 biological_process] (2); protein disulfide oxidoreductase activity [GO:0015035 molecular_function] (2)	Thioredoxin-like fold [IPR012336] (2); Thioredoxin [IPR005746] (2); Thioredoxin domain [IPR013661] (2)	scaffold_6_mRNA_2223.1	C_unshiu_00089_mRNA_23.1	-
GF0023253	1	1	0	WCRKC thioredoxin 1 isoform 1 (2)	biological process [GO:0006622 biological_process] (2); protein disulfide oxidoreductase activity [GO:0015035 molecular_function] (2)	Thioredoxin [IPR005746] (2); Thioredoxin domain [IPR013661] (2)	scaffold_6_mRNA_2223.1	C_unshiu_00089_mRNA_23.1	-
GF0023252	1	1	0	Hypothetical protein (2)	biological process [GO:0006622 biological_process] (2); protein disulfide oxidoreductase activity [GO:0015035 molecular_function] (2)	Bifunctional inhibitor-plant lipid transfer protein/wax storage helical domain [IPR016140] (2); Hydrophobic seed protein [IPR0127923] (2)	scaffold_6_mRNA_2216.1	C_unshiu_00089_mRNA_30.1	-
GF0023249	1	1	0	Hypothetical protein (1); Bimodular protein (1)	biological process [GO:0006622 biological_process] (2); protein disulfide oxidoreductase activity [GO:0015035 molecular_function] (2)	Bifunctional inhibitor-plant lipid transfer protein/wax storage helical domain [IPR016140] (2); Hydrophobic seed protein [IPR0127923] (2)	scaffold_6_mRNA_2145.1	C_unshiu_00248_mRNA_35.1	-

ID	Num in <i>C.clementine</i>	Num in <i>C.unshiu</i>	Num in <i>P.trifolia</i>	Note	GO	InterPro	Members in <i>C.clementine</i>	Members in <i>C.unshiu</i>	Members in <i>P.trifolia</i>	
GF0023247	1	1	0	UDP-glycosyltransferase 71C4 (2)	transferease activity, transferring hexosyl groups [GO:0016758]; molecular function [2]; metabolic process [GO:0008152]; biological process [2]	UDP-glucuronosyl UDP-glucosyltransferase [IPR002213] (2)	scaffold_6_mRNA_2139.1	C_unshiu_00248_mRNA_30.1	-	
GF0023244	1	1	0	Mitochondrial transcription termination factor family protein (2)	regulation of nucleic acids, DNA-templated [GO:0008355]; DNA binding [GO:0003690]; molecular function [2]; mitochondrial [GO:0005739 cellular component] (1)	Mitochondrial transcription termination factor [IPR013690] (1); Transcription termination factor, mitochondrial/chloroplastic [IPR003690] (1)	scaffold_6_mRNA_2123.1	C_unshiu_00248_mRNA_12.1	-	
GF0023243	1	1	0	UPF0586 C9orf41-like protein (2)	transferease activity, transferring hexosyl groups [GO:0016758]; molecular function [2]; metabolic process [GO:0008152]; biological process [2]	S-adenosyl-L-methionine-dependent methyltransferase [IPR002963] (2); UDP-glucuronosyl UDP-glucosyltransferase [IPR002213] (2); Bifunctional inhibitor/phat/lipid transfer protein/storage helical domain [IPR016140] (1)	scaffold_6_mRNA_2116.1	C_unshiu_00248_mRNA_4.1	-	
GF0023242	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_2115.1	C_unshiu_00248_mRNA_2.1	-	
GF0023241	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_2091.1	C_unshiu_01587_mRNA_5.1	-	
GF0023240	1	1	0	Hypothetical protein (2)	Agent domain, plant type [IPR014002]; Protein of unknown function [DUF724 [IPR007939]] (2)	scaffold_6_mRNA_2082.1	C_unshiu_00865_mRNA_9.1	-		
GF0023238	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_208.1	C_unshiu_01343_mRNA_13.1	-	
GF0023234	1	1	0	Long seven transmembrane receptor family protein expressed (2)	integral component of membrane [GO:0016021 cellular component] (2)	Lung seven transmembrane receptor-like [IPR009637] (2)	scaffold_6_mRNA_2020.1	C_unshiu_00008_mRNA_53.1	-	
GF0023231	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_2001.1	C_unshiu_00008_mRNA_69.1	-	
GF0023228	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1975.1	C_unshiu_00008_mRNA_111.1	-	
GF0023227	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1970.1	C_unshiu_00008_mRNA_105.1	-	
GF0023226	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1971.1	C_unshiu_00138_mRNA_67.1	-	
GF0023222	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1947.1	C_unshiu_00008_mRNA_86.1	-	
GF0023220	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1940.1	C_unshiu_00008_mRNA_82.1	-	
GF0023219	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1939.1	C_unshiu_00008_mRNA_81.1	-	
GF0023217	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1928.1	C_unshiu_00008_mRNA_73.1	-	
GF0023216	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1927.1	C_unshiu_00008_mRNA_72.1	-	
GF0023215	1	1	0	Nudix hydrolase 15, mitochondrial-like protein (1); Nudix hydrolase 15, mitochondrial (1)	hydrolase activity [GO:0016787]; molecular function [2]	NUDIX hydrolase domain [IPR000086]; (2); NUDIX hydrolase domain-like [IPR01597] (2)	scaffold_6_mRNA_1907.1	C_unshiu_00008_mRNA_54.1	-	
GF0023213	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1882.1	C_unshiu_00008_mRNA_35.1	-	
GF0023212	1	1	0	Verticillium wilt resistance-like protein (2)	protein binding [GO:0005515]; molecular function [2]; nucleic acid binding [GO:0003676]; molecular function [1]; zinc ion binding [GO:0008270 cellular function] (1)	Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Leucine-rich repeat, typical subtype [IPR003591] (2); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_6_mRNA_1881.1	C_unshiu_00008_mRNA_34.1	-	
GF0023211	1	1	0	Peniclopeptide repeat-containing protein, putative isoform 3 (2)	-	-	scaffold_6_mRNA_1873.1	C_unshiu_00008_mRNA_27.1	-	
GF0023210	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1864.1	C_unshiu_00008_mRNA_18.1	-	
GF0023208	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1862.1	C_unshiu_00157_mRNA_6.1	-	
GF0023205	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1859.1	C_unshiu_00008_mRNA_12.1	-	
GF0023203	1	1	0	Hypothetical protein (2)	aminoacyl-tRNA ligase activity [GO:0004812 cellular component] (2); lysine-tRNA ligase activity [GO:0004824 molecular function] (2); tRNA:lysyl RNA aminoacylation [GO:0006430 biological process] (2); nucleotide binding [GO:0000166 molecular function] (2); ATP binding [GO:0000167 cellular function] (2); cytoplasm [GO:0005737 cellular component] (2); rRNA aminoacylation for protein translation [GO:0006418 biological process] (2)	Lysyl-tRNA synthetase, class II, C-domain [IPR000086]; (2); Lysyl-tRNA synthetase, class II (D/K-N) [IPR004564] (2); Aminoacyl-tRNA synthetase, class II (D/K-N)-like [IPR018150] (1)	scaffold_6_mRNA_1848.1	C_unshiu_00008_mRNA_1.1	-	
GF0023202	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1843.1	C_unshiu_00217_mRNA_14.1	-	
GF0023201	1	1	0	50S ribosomal protein L14, chloroplast (2)	ribosome [GO:0005840 cellular component] (2); translation [GO:0006412 biological process] (2); structural constituent of ribosome [GO:0003735 molecular function] (2)	Ribosomal protein L14b/L23e [IPR000218] (1); Ribosomal protein L14 domain [IPR023751] (1); Ribosomal protein L14P [IPR002018] (1)	scaffold_6_mRNA_1841.1	C_unshiu_01534_mRNA_7.1	-	
GF0023200	1	1	0	Selenoprotein 1 (2)	-	-	Selenoprotein, Rdx type [IPR011893] (2); Thioredoxin-like fold [IPR0021336] (2); Selenoprotein T [IPR019398] (2)	scaffold_6_mRNA_1839.1	C_unshiu_01534_mRNA_5.1	-
GF0023199	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1815.2	C_unshiu_00332_mRNA_9.1	-	
GF0023198	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1811.1	C_unshiu_00332_mRNA_5.1	-	
GF0023197	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1806.1	C_unshiu_00390_mRNA_4.1	-	
GF0023195	1	1	0	Disease resistance protein (2)	-	-	scaffold_6_mRNA_181.1	C_unshiu_01597_mRNA_3.1	-	
GF0023194	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_6_mRNA_1795.1	C_unshiu_00390_mRNA_16.1	-	
GF0023193	1	1	0	LRR receptor-like kinase family protein (2)	protein phosphorylation [GO:0006468 biological process] (2); protein kinase activity [GO:0004672 molecular function] (2); ATP binding [GO:0005524 molecular function] (2); protein binding [GO:0005515 molecular function] (1)	serine/threonine/protein kinase, catalytic domain [IPR001245] (1)	scaffold_6_mRNA_1779.1	C_unshiu_00473_mRNA_13.1	-	
GF0023190	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1725.1	C_unshiu_02528_mRNA_1.1	-	
GF0023189	1	1	0	Hypothetical protein (1); Ribonuclease H protein (1)	nucleic acid binding [GO:0003676 molecular function] (2)	ribonuclease H-domain [IPR02337] (2); Ribonuclease H-like domain [IPR002711] (2); Reverser transcriptase zinc-binding domain [IPR026960] (2)	scaffold_6_mRNA_1716.1	C_unshiu_00034_mRNA_30.1	-	
GF0023188	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular function] (2)	F-box domain [IPR001810] (2)	scaffold_6_mRNA_1711.1	C_unshiu_00034_mRNA_36.1	-	
GF0023187	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular function] (1)	WD40/YVTN repeat-like-containing domain [IPR015943] (1)	scaffold_6_mRNA_1710.1	C_unshiu_00034_mRNA_37.1	-	
GF0023186	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1708.1	C_unshiu_00034_mRNA_39.1	-	
GF0023185	1	1	0	DNA double-strand break repair rad50 ATPase, putative isoform 2 (2)	-	-	scaffold_6_mRNA_1684.1	C_unshiu_00034_mRNA_58.1	-	
GF0023184	1	1	0	UDP-glycosyltransferase 85A7 (2)	transferease activity, transferring hexosyl groups [GO:0016758]; molecular function [2]; metabolic process [GO:0008152 biological process] (2)	UDP-glucuronosyl UDP-glucosyltransferase [IPR002213] (2)	scaffold_6_mRNA_1673.1	C_unshiu_00034_mRNA_69.1	-	
GF0023183	1	1	0	Hypothetical protein (2)	metabolic process [GO:0008152 biological process] (2); protein binding [GO:0016758 molecular function] (1)	UDP-glucuronosyl UDP-glucosyltransferase [IPR002213] (1)	scaffold_6_mRNA_1672.1	C_unshiu_00034_mRNA_70.1	-	
GF0023182	1	1	0	UDP-glycosyltransferase 85A7 (2)	transferease activity, transferring hexosyl groups [GO:0016758 molecular function] (2)	UDP-glucuronosyl UDP-glucosyltransferase [IPR002213] (2)	scaffold_6_mRNA_1671.1	C_unshiu_00034_mRNA_71.1	-	
GF0023180	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1655.1	C_unshiu_01538_mRNA_3.1	-	
GF0023179	1	1	0	Non-LTR retroelement reverse transcriptase-like protein (1)	-	-	scaffold_6_mRNA_1651.1	C_unshiu_00178_mRNA_15.1	-	
GF0023178	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1641.1	C_unshiu_00178_mRNA_3.1	-	
GF0023177	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1637.1	C_unshiu_01603_mRNA_3.1	-	
GF0023176	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1636.1	C_unshiu_01603_mRNA_2.1	-	
GF0023173	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1616.1	C_unshiu_00102_mRNA_38.1	-	
GF0023172	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1615.1	C_unshiu_00102_mRNA_37.1	-	
GF0023171	1	1	0	Aldo-keto reductase family 4 member C9 (2)	oxidoreductase activity [GO:0016491 molecular function] (2); oxidation-reduction process [GO:0055114 biological process] (2)	Aldo-keto reductase, converted state [IPR018170] (2); NADP-dependent oxidoreductase domain [IPR023210] (2); Aldo-keto reductase/porphyrin channel subunit [IPR001395] (1)	scaffold_6_mRNA_1613.1	C_unshiu_00102_mRNA_28.1	-	
GF0023170	1	1	0	Aldo-keto reductase family 4 member C9 (2)	oxidoreductase activity [GO:0016491 molecular function] (2); oxidation-reduction process [GO:0055114 biological process] (2); oxido-reductase activity [GO:0016491 molecular function] (2)	Aldo-keto reductase [IPR020471] (2); Aldo-keto reductase, converted state [IPR018170] (2); NADP-dependent oxidoreductase domain [IPR023210] (2); Aldo-keto reductase/potassium channel subunit [IPR001395] (1)	scaffold_6_mRNA_1607.1	C_unshiu_00102_mRNA_21.1	-	
GF0023168	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1588.1	C_unshiu_00032_mRNA_49.1	-	
GF0023167	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1584.1	C_unshiu_00032_mRNA_44.1	-	

ID	Num. in <i>C. clementiae</i>	Num. in <i>C. umshiu</i>	Num. in <i>P. trifoliae</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliae</i>
GF0023166	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (1)	PB1 domain [IPR00270] (1) Reverse transcriptase domain zinc-binding domain [IPR026960] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_6_mRNA_158.1	C_umshiu_02589_mRNA_5.1	-
GF0023164	1	1	0	Putative non-LTR retroelement reverse transcriptase (2)	nucleic acid binding [GO:0003676 molecular_function] (2)	[PR000477] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_6_mRNA_1513.1	C_umshiu_01718_mRNA_7.1	-
GF0023163	1	1	0	Hypothetical protein (2)	-	Endonuclease/exonuclease/phosphatase [IPR005135] (2)	scaffold_6_mRNA_1512.1	C_umshiu_01718_mRNA_6.1	-
GF0023162	1	1	0	Hypothetical protein (2)	-	Transposase [tpn2] (1); Hypothetical protein (1)	scaffold_6_mRNA_1510.1	C_umshiu_01718_mRNA_4.1	-
GF0023161	1	1	0	Transposase tpn2 (1); Hypothetical protein (1)	-	Gag-polypeptide of LTR copia-type [IPR029472] (1)	scaffold_6_mRNA_1509.1	C_umshiu_01718_mRNA_3.1	-
GF0023160	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (2); nucleus [GO:0005634 cellular_component] (1)	DNA-binding domain [IPR016177] (2); Methyl-CpG DNA binding [IPR001739] (1)	scaffold_6_mRNA_1505.1	C_umshiu_01171_mRNA_5.1	-
GF0023159	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1501	C_umshiu_01748_mRNA_2.1	-	
GF0023158	1	1	0	Hypothetical protein (2)	-	DNA binding [GO:0003677 molecular_function] (2); nucleus [GO:0005634 cellular_component] (1)	scaffold_6_mRNA_1498.1	C_umshiu_00597_mRNA_9.1	-
GF0023157	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1495.1	C_umshiu_00597_mRNA_7.1	-	
GF0023156	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1494.1	C_umshiu_00597_mRNA_6.1	-	
GF0023154	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (2)	hAT-like transposase, RNase-H fold [IPR025252] (2)	scaffold_6_mRNA_1491.1	C_umshiu_00597_mRNA_3.1	-
GF0023152	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1487.1	C_umshiu_00155_mRNA_3.1	-	
GF0023150	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1481.1	C_umshiu_00155_mRNA_8.1	-	
GF0023148	1	1	0	Hypothetical protein (2)	molecule binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2); TB2/DP1/HV-A22- related protein [IPR004345] (1)	scaffold_6_mRNA_1459.1	C_umshiu_00155_mRNA_31.1	-
GF0023147	1	1	0	Cation/H(+) antiporter 15 (2)	cation transport [GO:0006812 biological_process] (2); integral component of membrane [GO:0016021 cellular_component] (2); transmembrane transport [GO:0055085 biological_process] (2); solute:proton antiporter activity [GO:0015299 molecular_function] (2)	Cation/H ⁺ exchanger [IPR006153] (2); Rossmann-like αβαβαβαβαβαβαβαβαβα sandwich fold [IPR014729] (1)	scaffold_6_mRNA_1444.1	C_umshiu_00277_mRNA_28.1	-
GF0023146	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1422.1	C_umshiu_01022_mRNA_4.1	-	
GF0023145	1	1	0	G-type lectin S-receptor-like serine/threonine-protein kinase RLK1 (2)	ATP binding [GO:0005524 molecular_function] (2); protein phosphorylation [GO:006468 biological_process] (2); recognition of pollen [GO:0048544 biological_process] (2); protein serine/threonine kinase activity [GO:0004672 molecular_function] (2)	Serine/threonine-protein kinase site [IPR008711] (2); Protein kinase site [IPR017441] (2); protein kinase binding site [IPR017441] (2); PAN-Apple domain [IPR003609] (2); Bulb-type lectin domain [IPR001480] (2); Concanavalin A-like lectin/glucanase domain [IPR013320] (1); Serine/threonine domain specificity protein kinase; catalytic domain [IPR022290] (1)	scaffold_6_mRNA_1419.1	C_umshiu_01022_mRNA_7.1	-
GF0023144	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1415.1	C_umshiu_01675_mRNA_6.1	-	
GF0023142	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1402.1	C_umshiu_00219_mRNA_40.1	-	
GF0023141	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1383.1	C_umshiu_01785_mRNA_2.1	-	
GF0023140	1	1	0	Hypothetical protein (2)	molecule binding [GO:0003676 molecular_function] (2); nucleic acid binding [GO:0008270 molecular_function] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_6_mRNA_137.1	C_umshiu_01830_mRNA_5.1	-
GF0023139	1	1	0	Hypothetical protein (2)	Zinc finger, CCHC-type [IPR001878] (1)	scaffold_6_mRNA_1369.1	C_umshiu_02605_mRNA_1.1	-	
GF0023138	1	1	0	Hypothetical protein (2)	Transferase [IPR003480] (2); Thioredoxin-like domain [IPR027417] (1); Chlorophenol acetyltransferase-like domain [IPR023213] (1)	scaffold_6_mRNA_1367.1	C_umshiu_00178_mRNA_35.1	-	
GF0023134	1	1	0	Hypothetical protein (2)	Pentatricopeptide repeat [IPR002885] (2)	scaffold_6_mRNA_1337.1	C_umshiu_01367_mRNA_7.1	-	
GF0023133	1	1	0	Hypothetical protein (2)	molecule binding [GO:0003676 molecular_function] (2); DNA-directed S ³ -RNA polymerase activity [GO:0003899 molecular_function] (1); transcription-DNA-templated [GO:0006351 biological_process] (1); ribonucleic binding [GO:003549] molecular_function] (1)	Ribonuclease H-like domain [IPR012337] (2); DNA-directed RNA polymerase, subunit 2 [IPR015712] (1)	scaffold_6_mRNA_1331.1	C_umshiu_02941_mRNA_2.1	-
GF0023132	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1326.1	C_umshiu_00748_mRNA_12.1	-	
GF0023131	1	1	0	Hypothetical protein (2)	phosphotransferase activity, alcohol group as acceptor [GO:0016773 molecular_function] (1)	Ribokinase-like [IPR029056] (2); Carbohydrate kinase PkB [IPR0016111] (2); Carbohydrate kinase, PkB, conserved site [IPR002173] (1)	scaffold_6_mRNA_1312.1	C_umshiu_00405_mRNA_15.1	-
GF0023130	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (1)	PB1 domain [IPR00270] (1)	scaffold_6_mRNA_1307.1	C_umshiu_00315_mRNA_3.1	-
GF0023129	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1292.1	C_umshiu_00207_mRNA_26.1	-	
GF0023127	1	1	0	Hypothetical protein (2)	Domain of unknown function DUF4283 [IPR025558] (1)	scaffold_6_mRNA_1276.1	C_umshiu_01124_mRNA_3.1	-	
GF0023125	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1267.1	C_umshiu_00149_mRNA_3.1	-	
GF0023124	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1254.1	C_umshiu_02458_mRNA_1.1	-	
GF0023122	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1230.1	C_umshiu_00936_mRNA_7.1	-	
GF0023121	1	1	0	Hypothetical protein (2)	P-loop-containing nucleoside triphosphate hydrolase [IPR027417] (1)	scaffold_6_mRNA_1228.1	C_umshiu_00936_mRNA_9.1	-	
GF0023120	1	1	0	Hypothetical protein (2)	Pentatricopeptide repeat [IPR002885] (2); Tetraproticopeptide-like helical domain [IPR011990] (1)	scaffold_6_mRNA_1222.1	C_umshiu_03013_mRNA_1.1	-	
GF0023119	1	1	0	DNA-binding protein S1FA2 (2)	DNA binding protein S1FA [IPR006779] (2)	scaffold_6_mRNA_1210.1	C_umshiu_00028_mRNA_15.1	-	
GF0023118	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1208.1	C_umshiu_00028_mRNA_11.1	-	
GF0023117	1	1	0	Hypothetical protein (1); UBX domain protein (1)	zinc ion binding [GO:0008270 molecular_function] (1)	Zinc finger, CCHC-type [IPR001878] (1)	scaffold_6_mRNA_1202.1	C_umshiu_01324_mRNA_4.1	-
GF0023116	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1201.1	C_umshiu_01119_mRNA_7.1	-	
GF0023115	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1180.1	C_umshiu_00196_mRNA_37.1	-	
GF0023114	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1175.1	C_umshiu_01055_mRNA_6.1	-	
GF0023112	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1140.1	C_umshiu_00231_mRNA_43.1	-	
GF0023111	1	1	0	Hypothetical protein (2)	Domain of unknown function DUF588 [IPR006702] (2)	scaffold_6_mRNA_1130.1	C_umshiu_02282_mRNA_1.1	-	
GF0023110	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1126.1	C_umshiu_01001_mRNA_2.1	-	
GF0023109	1	1	0	Cytokinin riboside 5'-monophosphate phosphotriphosphohydrolase (1); Hypothetical protein (1)	nucleic acid binding [GO:0003676 molecular_function] (1); zinc ion binding [GO:0008270 molecular_function] (1)	LOG family [IPR031100] (2); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_6_mRNA_1122.1	C_umshiu_01151_mRNA_2.1	-
GF0023107	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA- templated [GO:0006355 molecular_function] (1)	scaffold_6_mRNA_1109.1	C_umshiu_02915_mRNA_1.1	-	
GF0023106	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1101.1	C_umshiu_00279_mRNA_4.1	-	
GF0023105	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1090.1	C_umshiu_00629_mRNA_1.1	-	
GF0023103	1	1	0	Hypothetical protein (2)	Transposase-associated domain [IPR029480] (2)	scaffold_6_mRNA_1087.1	C_umshiu_00626_mRNA_3.1	-	
GF0023102	1	1	0	Retrotansposon protein, putative, Ty3- gaggy subclass (1); Hypothetical protein (1)	Chromo domain [IPR023780] (2); Chromo-domain-like [IPR016197] (2)	scaffold_6_mRNA_1069.1	C_umshiu_00393_mRNA_20.1	-	
GF0023101	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1068.1	C_umshiu_00912_mRNA_17.1	-	
GF0023099	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1033.1	C_umshiu_01025_mRNA_13.1	-	
GF0023098	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1032.1	C_umshiu_00848_mRNA_1.1	-	
GF0023096	1	1	0	Cytochrome b-c1 complex subunit 8 (2)	ubiquinol-cytochrome c reductase activity [GO:0008121 molecular_function] (2); cytochrome c, respiratory chain [GO:0010469 cellular_component] (2); electron transport chain [GO:002290 biological_process] (2); mitochondrial inner membrane [GO:0005743 cellular_component] (2)	Cytochrome b-c1 complex subunit 8 [IPR004210] (2); Cytochrome b-c1 complex subunit 8, plants [IPR020101] (2)	scaffold_6_mRNA_1021.1	C_umshiu_01984_mRNA_4.1	-
GF0023095	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1018.1	C_umshiu_00402_mRNA_3.1	-	
GF0023094	1	1	0	Hypothetical protein (2)	-	scaffold_6_mRNA_1012.1	C_umshiu_00402_mRNA_8.1	-	
GF0023093	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat domain, L-domain- like [IPR032675] (2)	scaffold_5_mRNA_999.1	C_umshiu_00083_mRNA_20.1	-
GF0023092	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_996.1	C_umshiu_00083_mRNA_23.1	-	
GF0023090	1	1	0	Hypothetical protein (2)	Reverse transcriptase, RNA-dependent DNA polymerase [IPR03103] (1)	scaffold_5_mRNA_992.1	C_umshiu_00083_mRNA_27.1	-	
GF0023089	1	1	0	Hypothetical protein (2)	(TP-)-grasp domain [IPR020651] (2); ATP-grasp fold, subdomain 2 [IPR013816] (1)	scaffold_5_mRNA_99.1	C_umshiu_00760_mRNA_11.1	-	
GF0023087	1	1	0	Hypothetical protein (2)	BmC-like cupin domain [IPR011051] (2); BmC-like poly-cell fold [IPR014710] (2); Cupin [IPR001929] (2); Cupin 1 [IPR006045] (2)	scaffold_5_mRNA_98.7.1	C_umshiu_00083_mRNA_31.1	-	
GF0023086	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_98.4.1	C_umshiu_00083_mRNA_33.1	-	
GF0023085	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_98.3.1	C_umshiu_00083_mRNA_34.1	-	
GF0023084	1	1	0	Oxalate oxidase 2 (2)	nutrient catabolism activity [GO:0045735 molecular_function] (2); manganese ion binding [GO:0030145 molecular_function] (2)	scaffold_5_mRNA_98.0.1	C_umshiu_00083_mRNA_37.1	-	
GF0023083	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_97.9.1	C_umshiu_00083_mRNA_38.1	-	
GF0023082	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_97.4.1	C_umshiu_00540_mRNA_5.1	-	

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0023081	1	1	0	Hypothetical protein (2)	integral component of membrane [GO:0016021 cellular component] (2); prenyltransferase activity [GO:0004659 molecular function] (1); transferase activity, transferring alkyl or aryl (other than methyl) groups [GO:0016765 molecular function] (1)	UbA prenyltransferase family [IPR000537] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_5_mRNA_973.1	C_unshiu_00540_mRNA_6.1	-
GF0023080	1	1	0	Small heat shock protein (2)		HSP20-like chaperone [IPR000978] (1); Small heat shock protein HSP20 [IPR031107] (1)	scaffold_5_mRNA_97.1	C_unshiu_00633_mRNA_11.1	-
GF0023078	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_964.1	C_unshiu_00540_mRNA_13.1	-
GF0023077	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0004698 molecular function] (1); nucleic acid binding [GO:0003676 molecular function] (1); DNA binding [GO:0003577 molecular function] (1)	HAT, C-terminal dimerization domain [IPR000961] (1); hAT-like transposase, RNase-H fold [IPR025252] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_5_mRNA_962.1	C_unshiu_00540_mRNA_15.1	-
GF0023076	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPR032675] (2); P-loop containing nucleoside triphosphate hydrolase [IPR021717] (2); NB-ARC [IPR002182] (2); Winged helix-turn-helix-DNA-binding domain [IPR011991] (1)	scaffold_5_mRNA_960.1	C_unshiu_00540_mRNA_17.1	-
GF0023075	1	1	0	LRR and NB-ARC domain disease resistance protein (2)	ADP binding [GO:0043531 molecular function] (2)		scaffold_5_mRNA_96.1	C_unshiu_00633_mRNA_10.1	-
GF0023074	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_957.1	C_unshiu_00033_mRNA_18.1	-
GF0023073	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_956.1	C_unshiu_00033_mRNA_17.1	-
GF0023072	1	1	0	Tyrosine-sulfated glycopeptide receptor 1	protein binding [GO:0005515 molecular function] (2)	Lampruneidae repeat [IPR000611] (2); eucnemeidae repeat domain subtype [IPR001591] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_5_mRNA_954.1	C_unshiu_00033_mRNA_15.1	-
GF0023071	1	1	0	Beta-glycosidase 44 (2)	hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular function] (2); carbohydrate metabolic process [GO:000975 biological process] (2)	Glycoside hydrolase family superfamily [IPR001360] (2); Glycoside hydrolase, catalytic domain [IPR013781] (1)	scaffold_5_mRNA_953.1	C_unshiu_00033_mRNA_14.1	-
GF0023069	1	1	0	Hypothetical protein (2)		HAT, C-terminal dimerization domain [IPR008096] (2); LOG family [IPR031100] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_5_mRNA_941.1	C_unshiu_00033_mRNA_2.1	-
GF0023068	1	1	0	Transposable element Ac (1); Hypothetical protein (1)	nucleic acid binding [GO:0003676 molecular function] (2); protein binding [GO:0046983 molecular function] (2)		scaffold_5_mRNA_940.1	C_unshiu_01003_mRNA_5.1	-
GF0023067	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_94.1	C_unshiu_03124_mRNA_1.1	-
GF0023065	1	1	0	Seven transmembrane MLO family protein (1); MLO protein homolog 1 (1)	integral component of membrane [GO:0016021 cellular component] (2); defense response [GO:0006952 biological process] (2)	Mlo-related protein [IPR004326] (2)	scaffold_5_mRNA_933.1	C_unshiu_01044_mRNA_3.1	-
GF0023064	1	1	0	Hypothetical protein (1); Geranylgeranyl diphosphate synthase (1)	isoprenoid biosynthetic process [GO:0008299 biological process] (2)	Polyprenyl synthetase [IPR000092] (2); Isoprenoid synthase domain [IPR008949] (2); Polyprenyl synthetase-related [IPR017446] (1)	scaffold_5_mRNA_932.1	C_unshiu_01044_mRNA_4.1	-
GF0023063	1	1	0	Hypothetical protein (2)		Polyprenyl synthetase [IPR000092] (2); Isoprenoid synthase domain [IPR008949] (2); Polyprenyl synthetase-related [IPR017446] (1)	scaffold_5_mRNA_927.1	C_unshiu_01044_mRNA_8.1	-
GF0023062	1	1	0	G GPP synthase 2 family protein (2)	isoprenoid biosynthetic process [GO:0008299 biological process] (2)	Polyprenyl synthetase [IPR000092] (2); Isoprenoid synthase domain [IPR008949] (2); Polyprenyl synthetase-related [IPR017446] (1)	scaffold_5_mRNA_921.1	C_unshiu_00292_mRNA_31.1	-
GF0023061	1	1	0	Putative non-LTR reverse transcriptase (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Recombinase, zinc-finger, zinc-binding domain [IPR026296] (2); Ribonuclease H-like domain [IPR012337] (2); Reverse transcriptase domain [IPR004077] (2)	scaffold_5_mRNA_919.1	C_unshiu_00292_mRNA_29.1	-
GF0023060	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular function] (2); nucleic acid binding [GO:0003676 molecular function] (2)	Domain of unknown function [IPR025558] (2); Zinc finger, CCHC-type [IPR001878] (2); Zinc knuckle CX2CX4HX4C [IPR025836] (2)	scaffold_5_mRNA_917.1	C_unshiu_00292_mRNA_27.1	-
GF0023059	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_915.1	C_unshiu_00292_mRNA_25.1	-
GF0023058	1	1	0	Monosaccharide transport protein (2)			scaffold_5_mRNA_909.1	C_unshiu_00292_mRNA_19.1	-
GF0023057	1	1	0	Hypothetical protein (2)	DNA integration [GO:0015074 biological process] (2); nucleic acid binding [GO:0003676 molecular function] (2)	DNA integration [GO:0015074 biological process] (2); nucleic acid binding [GO:0003676 molecular function] (2)	scaffold_5_mRNA_901.1	C_unshiu_00292_mRNA_12.1	-
GF0023056	1	1	0	Putative retroelement polypeptide (2)			scaffold_5_mRNA_890.1	C_unshiu_00292_mRNA_11.1	-
GF0023055	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_89.1	C_unshiu_00230_mRNA_31.1	-
GF0023054	1	1	0	Hypothetical protein (2)	O-methyltransferase activity [GO:0008171 molecular function] (2)	O-methyltransferase, family 3 [IPR002315] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR029651] (1)	scaffold_5_mRNA_891.1	C_unshiu_00292_mRNA_3.1	-
GF0023053	1	1	0	Hypothetical protein (2)		U1 RNA processing family, C-terminal carboxylic domain [IPR0363510] (2); Domain of unknown function DUF4216 [IPR025312] (1)	scaffold_5_mRNA_886.1	C_unshiu_00292_mRNA_20.1	-
GF0023052	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_886.1	C_unshiu_00896_mRNA_2.1	-
GF0023051	1	1	0	Hypothetical protein (2)		TRAF-like [IPR008974] (2); MATH/TRAF domain [IPR002083] (2)	scaffold_5_mRNA_887.1	C_unshiu_00771_mRNA_1.1	-
GF0023050	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_874.1	C_unshiu_00769_mRNA_15.1	-
GF0023049	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_873.1	C_unshiu_00769_mRNA_16.1	-
GF0023048	1	1	0	Hypothetical protein (2)	epoxide-type peptidase activity [GO:0008242 molecular function] (2); proteolysis [GO:0006508 biological process] (2)	U1 RNA processing family, C-terminal carboxylic domain [IPR0363510] (2); Domain of unknown function DUF4216 [IPR025312] (1)	scaffold_5_mRNA_866.1	C_unshiu_00256_mRNA_20.1	-
GF0023047	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_856.1	C_unshiu_00159_mRNA_2.1	-
GF0023046	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_85.1	C_unshiu_01059_mRNA_2.1	-
GF0023045	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_844.1	C_unshiu_00405_mRNA_7.1	-
GF0023044	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_842.1	C_unshiu_00405_mRNA_5.1	-
GF0023043	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_840.1	C_unshiu_00405_mRNA_3.1	-
GF0023042	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_839.1	C_unshiu_00405_mRNA_2.1	-
GF0023041	1	1	0	Hypothetical protein (2)	DNA integration [GO:0015074 biological process] (2); nucleic acid binding [GO:0003676 molecular function] (2)	Integrase, catalytic core [IPR001584] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_5_mRNA_835.1	C_unshiu_00638_mRNA_12.1	-
GF0023040	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_830.1	C_unshiu_00638_mRNA_6.1	-
GF0023039	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_829.1	C_unshiu_00638_mRNA_5.1	-
GF0023038	1	1	0	Hypothetical protein (2)		Chromatin/chromosome shadow domain [IPR000953] (2); Chromo domain-like [IPR016197] (2); Chromo domain [IPR023780] (2)	scaffold_5_mRNA_826.1	C_unshiu_00638_mRNA_2.1	-
GF0023037	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPR032675] (2); NB-ARC [IPR02182] (1); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1)	scaffold_5_mRNA_823.1	C_unshiu_00373_mRNA_32.1	-
GF0023036	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_821.1	C_unshiu_00373_mRNA_29.1	-
GF0023034	1	1	0	TNL (1); TMV resistance N (1)	ADP binding [GO:0043531 molecular function] (1)	U1 RNA processing family, L domain-like [IPR032675] (2); NB-ARC [IPR02182] (1); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1); NB-ARC [IPR02182] (2)	scaffold_5_mRNA_807.1	C_unshiu_01566_mRNA_9.1	-
GF0023033	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2); protein dimerization activity [GO:0046983 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2); HAT, C-terminal dimerization domain [IPR008906] (2)	scaffold_5_mRNA_801.1	C_unshiu_00583_mRNA_5.1	-
GF0023032	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_800.1	C_unshiu_00583_mRNA_6.1	-
GF0023031	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_799.1	C_unshiu_00583_mRNA_7.1	-
GF0023030	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_798.1	C_unshiu_00583_mRNA_8.1	-
GF0023029	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_793.1	C_unshiu_00583_mRNA_11.1	-
GF0023028	1	1	0	Putative non-LTR retroelement reverse transcriptase (1)	nucleic acid binding [GO:0003676 molecular function] (2)	Reverse transcriptase, zinc-binding domain [IPR026296] (2); Ribonuclease H-like domain [IPR012337] (2); Zinc finger, zinc-binding domain [IPR02182] (1); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1)	scaffold_5_mRNA_792.1	C_unshiu_00195_mRNA_40.1	-
GF0023027	1	1	0	Hypothetical protein (2)	ADP binding [GO:0043531 molecular function] (2)		scaffold_5_mRNA_782.1	C_unshiu_00195_mRNA_30.1	-
GF0023026	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_781.1	C_unshiu_00195_mRNA_29.1	-
GF0023025	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_778.1	C_unshiu_00195_mRNA_26.1	-
GF0023024	1	1	0	Disease resistance protein RPM1 (1); NBS-LRR class resistance protein Fy1-Ry1 (1)	ADP binding [GO:0043531 molecular function] (2)	Leucine-rich repeat domain, L domain-like [IPR032675] (2); NB-ARC [IPR02182] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC [IPR02182] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_5_mRNA_776.1	C_unshiu_00195_mRNA_23.1	-
GF0023023	1	1	0	Hypothetical protein (1); Aldose reductase (1)	oxidoreductase activity [GO:0016491 molecular function] (2); oxidation-reduction process [GO:0055114 biological process] (2)	NADP-dependent oxidoreductase domain [IPR0023210] (2); Aldo/keto reductase/potassium channel subunit [IPR001395] (1); Aldo/keto reductase [IPR020471] (1)	scaffold_5_mRNA_77.1	C_unshiu_01059_mRNA_5.1	-
GF0023022	1	1	0	Hypothetical protein (2)	ADP binding [GO:0043531 molecular function] (2)	NB-ARC [IPR002182] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Leucine-rich repeat domain, L domain-like [IPR02182] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_5_mRNA_76.1	C_unshiu_00195_mRNA_10.1	-
GF0023021	1	1	0	NBS-LRR class resistance protein Fy1-Ry1 (1); Disease resistance protein RPM1 (1)	ADP binding [GO:0043531 molecular function] (2)	NADP-dependent oxidoreductase domain [IPR0023210] (2); Aldo/keto reductase/potassium channel subunit [IPR001395] (1); Aldo/keto reductase [IPR020471] (1)	scaffold_5_mRNA_75.1	C_unshiu_00195_mRNA_7.1	-
GF0023020	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_734.1	C_unshiu_00892_mRNA_7.1	-
GF0023019	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_730.1	C_unshiu_00892_mRNA_3.1	-

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0023018	1	1	0	LRR receptor-like kinase family protein (2)	ATP binding [GO:0005524]; molecular function [2]; protein phosphorylation [GO:006468]; biological process [2]; protein kinase activity [GO:0004672]; molecular function [2]; protein binding [GO:000515]; molecular function [2]	Leucine-rich repeat-containing N-terminal plant-type [IPR015210]; Serine/threonine-specific protein kinase, active site [IPR082771]; Protein kinase, ATP binding site [IPR017441]; Leucine-rich repeat domain [IPR016112]; Protein kinase domain [IPR017191]; Protein kinase-like domain [IPR013320] (2); Leucine-rich repeat domain, L-domain-like [IPB032675]; Leucine-rich repeat, typical subtype [IPB0003591] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR022930] (1); Concansaccharide A-like lectin/glycanase domain [IPR013320] (1)	scaffold_5_mRNA_729.1	C_unshiu_00034_mRNA_1.1	-
GF0023017	1	1	0	Hypothetical protein (2)	DNA integration [GO:0015074]; biological process [2]; nucleic acid binding [GO:0005676]; molecular function [2]	Integrase, catalytic core [IPR001584] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_5_mRNA_727.1	C_unshiu_00034_mRNA_2.1	-
GF0023016	1	1	0	Retrovirus-related pol polyprotein from transposon int 1-94 (2)	nucleic acid binding [GO:0003676]; molecular function [1]	Integrase, catalytic core [IPR001584] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_5_mRNA_726.1	C_unshiu_00034_mRNA_3.1	-
GF0023015	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]; molecular function [1]	Ribonuclease H-like domain [IPR012337] (1)	scaffold_5_mRNA_718.1	C_unshiu_00034_mRNA_11.1	-
GF0023013	1	1	0	WEB family protein (2)	O-methyltransferase activity [GO:0008171]; molecular function [2]; O-methyltransferase activity [GO:0008168]; molecular function [2]	O-methyltransferase, family 2 [IPR0008177] (2); O-methyltransferase COMT-type [IPR016461]; S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (2)	scaffold_5_mRNA_714.1	C_unshiu_00034_mRNA_14.1	-
GF0023012	1	1	0	Hypothetical protein (2)	metal ion binding [GO:0046872]; molecular function [2]; nucleic acid binding [GO:0003676]; molecular function [1]; zinc ion binding [GO:0008270]; molecular function [1]	O-methyltransferase, family 2 [IPR0008177] (2); O-methyltransferase COMT-type [IPR016461]; S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (2)	scaffold_5_mRNA_710.1	C_unshiu_00034_mRNA_16.1	-
GF0023011	1	1	0	O-methyltransferase ZRP4 (2)	O-methyltransferase activity [GO:0008171]; molecular function [2]; O-methyltransferase activity [GO:0008168]; molecular function [2]	O-methyltransferase, family 2 [IPR0008177] (2); O-methyltransferase COMT-type [IPR016461]; S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (2)	scaffold_5_mRNA_705.1	C_unshiu_00486_mRNA_21.1	-
GF0023010	1	1	0	Hypothetical protein (2)	metal ion binding [GO:0046872]; molecular function [2]; nucleic acid binding [GO:0003676]; molecular function [1]; zinc ion binding [GO:0008270]; molecular function [1]	Zinc finger, CCHC-type [IPR000571] (2); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_5_mRNA_701	C_unshiu_00486_mRNA_24.1	-
GF0023009	1	1	0	Hypothetical protein (2)	-	Zinc finger, CCHC-type [IPR000571] (2); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_5_mRNA_698.1	C_unshiu_00486_mRNA_19.1	-
GF0023005	1	1	0	Hypothetical protein (2)	-	Zinc finger, CCHC-type [IPR000571] (2); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_5_mRNA_676.1	C_unshiu_00486_mRNA_1.1	-
GF0023004	1	1	0	Hypothetical protein (2)	-	Zinc finger, CCHC-type [IPR000571] (2)	scaffold_5_mRNA_673.1	C_unshiu_00324_mRNA_14.1	-
GF0023003	1	1	0	Embryogenesis-associated EMB8 (2)	-	Zinc finger, CCHC-type [IPR000571] (2)	scaffold_5_mRNA_670.1	C_unshiu_00324_mRNA_17.1	-
GF0023002	1	1	0	Hypothetical protein (2)	-	Domain of unknown function DUF4283 [IPR025558] (2)	scaffold_5_mRNA_663.1	C_unshiu_00324_mRNA_25.1	-
GF0023001	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]; molecular function [1]	Ribonuclease H-like domain [IPR012337] (1)	scaffold_5_mRNA_662.1	C_unshiu_00324_mRNA_26.1	-
GF0023000	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]; molecular function [2]; RNA-DNA hybrid ribonuclease activity [GO:0004523]; molecular function [1]	Ribonuclease H-like domain [IPR012337] (2); Ribonuclease H domain scaffold_5_mRNA_661.1 [IPR02156] (1)	scaffold_5_mRNA_661.1	C_unshiu_00695_mRNA_15.1	-
GF0022999	1	1	0	Retrotransposon protein, putative, Ty-1 copia subclass (1); Hypothetical protein (1)	-	-	scaffold_5_mRNA_657.1	C_unshiu_00269_mRNA_31.1	-
GF0022998	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_655.1	C_unshiu_00269_mRNA_27.1	-
GF0022997	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_654.1	C_unshiu_01868_mRNA_2.1	-
GF0022996	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_649.1	C_unshiu_00269_mRNA_19.1	-
GF0022995	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_647.1	C_unshiu_00269_mRNA_17.1	-
GF0022994	1	1	0	Hypothetical protein (2)	protein kinase activity [GO:0004672]; molecular function [1]; protein phosphorylation [GO:0006468]; biological process [1]; ATP binding [GO:0005524]; molecular function [1]	Protein kinase-like domain [IPR011009] (1); Protein kinase domain [IPR000719] (1)	scaffold_5_mRNA_639.1	C_unshiu_00269_mRNA_11.1	-
GF0022993	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270]; molecular function [2]; nucleic acid binding [GO:0003676]; molecular function [2]	Zinc finger, CCHC-type [IPR001878] (2)	scaffold_5_mRNA_636.1	C_unshiu_00492_mRNA_3.1	-
GF0022991	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_627.1	C_unshiu_00234_mRNA_4.1	-
GF0022990	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_625.1	C_unshiu_00234_mRNA_2.1	-
GF0022989	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515]	Ribokinase-like [IPR029056] (2)	scaffold_5_mRNA_623.1	C_unshiu_00636_mRNA_9.1	-
GF0022988	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515]; molecular function [2]; RNA processing [GO:000396]; biological process [2]	HAT (Half-life-TPR) repeat [IPR003107] (2); Tetrapeptide-repeat-like helical domain [IPR004690] (2)	scaffold_5_mRNA_621	C_unshiu_00231_mRNA_21.1	-
GF0022987	1	1	0	HAT family dimerization protein, containing protein (1); Hypothetical protein (1)	HAT (Half-life-TPR) dimerisation domain [IPR004690] (2)	scaffold_5_mRNA_619.1	C_unshiu_00354_mRNA_1.1	-	
GF0022985	1	1	0	Retrotransposon protein, putative, unclassified (1); Hypothetical protein (1)	nucleic acid binding [GO:0003676]; molecular function [2]	Ribonuclease H-like domain [IPR012337] (2); Arabidopsis retrotransposon Orf1 [IPR00412] (2)	scaffold_5_mRNA_610.1	C_unshiu_00354_mRNA_4.1	-
GF0022984	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_609.1	C_unshiu_00354_mRNA_7.1	-	
GF0022983	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_6.1	C_unshiu_00230_mRNA_28.1	-
GF0022982	1	1	0	Disease resistance protein (CC-NBS-LRR class) family protein (2)	flavin adenine dinucleotide binding [GO:0050560]; molecular function [2]; oxidoreductase activity [GO:001649]; molecular function [2]; oxidation-reduction process [GO:0005514]; biological process [2]; oxidoreductase activity [GO:0006412]; biological process [2]; intracellular [GO:000562]; cellular component [2]; structural constituent of ribosome [GO:0003735]; molecular function [2]	Berberine-binding protein [IPR012951]; FAD-binding, type 2 [IPR016166]; FAD-binding, type 1 [IPR016167]; (1); Oxygen oxidoreductase [IPR008096] (2)	scaffold_5_mRNA_594.1	C_unshiu_01036_mRNA_4.1	-
GF0022981	1	1	0	FAD-binding Berberine family protein (2)	flavin adenine dinucleotide binding [GO:0050560]; molecular function [2]; oxidoreductase activity [GO:001649]; molecular function [2]; oxidation-reduction process [GO:0005514]; biological process [2]; oxidoreductase activity [GO:0006412]; biological process [2]; intracellular [GO:000562]; cellular component [2]; structural constituent of ribosome [GO:0003735]; molecular function [2]	Berberine-binding protein [IPR012951]; Translation protein, beta-barrel domain [IPR009000] (2); Ribosomal protein L3, conserved site [IPR019926] (2)	scaffold_5_mRNA_587.1	C_unshiu_00108_mRNA_15.1	-
GF0022980	1	1	0	60S ribosomal protein L3 (2)	cellular component [2]; translation [GO:0006412]; biological process [2]; intracellular [GO:000562]; cellular component [2]; structural constituent of ribosome [GO:0003735]; molecular function [2]	equivalent FAD-binding site [IPR006093] (1); FAD-binding, type 2, subdomain 1 [IPR016167] (1); CO dehydrogenase, flavoprotein-like; FAD-binding, subdomain 2 [IPR016169] (1)	scaffold_5_mRNA_579.1	C_unshiu_00108_mRNA_11.1	-
GF0022979	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677]; molecular function [2]; nucleic acid binding [GO:0003676]; molecular function [1]; protein dimerization activity [GO:0046983]; molecular function [1]	HAT-like transpeptidase, RNase-H fold [IPR025525] (2); Ribonuclease H-like domain [IPR012337] (1); HAT, C-terminal dimerisation domain [IPR008096] (1)	scaffold_5_mRNA_572.1	C_unshiu_00108_mRNA_4.1	-
GF0022978	1	1	0	Hypothetical protein (1); Transposase (1)	-	-	scaffold_5_mRNA_571.1	C_unshiu_00108_mRNA_3.1	-
GF0022975	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_557.1	C_unshiu_00710_mRNA_4.1	-
GF0022974	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_556.1	C_unshiu_00710_mRNA_5.1	-
GF0022973	1	1	0	Hypothetical protein (2)	Ankyrin repeat-containing domain [IPR020683] (2)	scaffold_5_mRNA_555.1	C_unshiu_00710_mRNA_6.1	-	
GF0022972	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_55.1	C_unshiu_00231_mRNA_13.1	-
GF0022971	1	1	0	Hypothetical protein (2)	Aspartic peptidase domain [IPR021109] (1)	scaffold_5_mRNA_548.1	C_unshiu_00335_mRNA_73.1	-	
GF0022970	1	1	0	Hypothetical protein (2)	Aspartic peptidase domain [IPR021109] (1)	scaffold_5_mRNA_532.1	C_unshiu_00561_mRNA_14.1	-	
GF0022965	1	1	0	Hypothetical protein (2)	ADP binding [GO:0043531]; molecular function [2]	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC [IPR002182]; Winged-helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_5_mRNA_520.1	C_unshiu_00561_mRNA_12.1	-
GF0022964	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006555]; biological process [2]; zinc ion binding [GO:0008270]; molecular function [2]	Leucine-rich repeat domain, L-domain-like [IPR032675] (1)	scaffold_5_mRNA_52.1	C_unshiu_00231_mRNA_10.1	-
GF0022963	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006555]; biological process [2]; zinc ion binding [GO:0008270]; molecular function [2]	FHYS3/FAR1 family [IPR031052] (2); FAR1-like domain [IPR00430] (2); Zinc finger, PWWP-type [IPR006564] (2); Zinc finger, SWIM-type [IPR007527] (2)	scaffold_5_mRNA_519.1	C_unshiu_00697_mRNA_2.2	-
GF0022961	1	1	0	Xylem cysteine peptidase 1 (2)	cysteine-type peptidase activity [GO:0008234]; molecular function [2]; proteolysis [GO:0006508]; biological process [2]	Cysteine peptidase, cysteine active site [IPR000169] (2); Cysteine peptidase, histidine active site [IPR025660] (2); Aspartagine active site [IPR025661] (2); Cathepsin propionate inhibitor domain (29) [IPR013201] (2)	scaffold_5_mRNA_518.1	C_unshiu_00370_mRNA_21.1	-
GF0022958	1	1	0	Hypothetical protein (2)	enzyme inhibitor activity [GO:004857]; molecular function [1]	Pectinesterase inhibitor domain [IPR006501] (1)	scaffold_5_mRNA_515.1	C_unshiu_00561_mRNA_15.1	-
GF0022957	1	1	0	Dimethylamine monooxygenase, putative (2)	oxidoreductase activity [GO:001649]; molecular function [2]; oxidation-reduction process [GO:0005514]; biological process [2]; flavin adenine dinucleotide binding [GO:0050660]; molecular function [2]; NADP binding [GO:0005660]; molecular function [2]; NADPH binding [GO:0005661]; molecular function [2]; N,N-dimethylamine monooxygenase activity [GO:0004499]; molecular function [2]	Dihydropteridine reductase, N-oxide-forming [IPR012145] (2); FAD/NADP-binding domain [IPR023751] (2); Flavin monooxygenase-like [IPR020946] (2)	scaffold_5_mRNA_513.1	C_unshiu_00623_mRNA_11.1	-
GF0022956	1	1	0	Hypothetical protein (1); BAHID acyltransferase (1)	transferease activity; transferring acyl groups other than amino-acyl groups [GO:0016747]; molecular function [1]	Transferease [IPR003480] (1); Chlorophenicol acetyltransferase-like domain [IPR023213] (1)	scaffold_5_mRNA_512.1	C_unshiu_00623_mRNA_6.1	-

ID	Num in <i>C. clementiae</i>	Num in <i>C. umshiu</i>	Num in <i>P. trifoliae</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliae</i>
GF0022955	1	1	0	0 Acylsugar acyltransferase 3 (2)	transf erase activity, transferring acyl groups other than amino-acyl groups [GO:0016747 molecular function] (2)	Transf erase [IPR002480] (2); Chitosanphospho acyltransferase-like domain [IPR023213] (1)	scaffold_5_mRNA_5127.1	C_umshiu_00623_mRNA_5.1	-
GF0022954	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_5120.1	C_umshiu_01461_mRNA_5.1	-	
GF0022952	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_5112.1	C_umshiu_00409_mRNA_15.1	-	
GF0022948	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_5105.1	C_umshiu_00409_mRNA_10.1	-	
GF0022946	1	1	0	0 Hypothetical protein (1); U11/U12 small nuclear ribonucleoprotein 25 kDa (1)	Ubiquitin-related domain [IPR029071] (2)	scaffold_5_mRNA_5089.1	C_umshiu_00527_mRNA_21.1	-	
GF0022941	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_5046.1	C_umshiu_00192_mRNA_34.1	-	
GF0022940	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_5038.1	C_umshiu_00061_mRNA_51.1	-	
GF0022938	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_503.1	C_umshiu_02469_mRNA_2.1	-	
GF0022936	1	1	0	0 Hypothetical protein (2)	GTP binding [GO:000525]; molecular function] (2); microtubule-associated molecular component [GO:000574 cellular component] (2); structural constituent of cytoskeleton [GO:000200 molecular function] (2); microtubule-based process [GO:0007017 biological process] (2); GTPase activity [GO:0003924 molecular function] (2)	Tubulin/TubZ [IPR002453]; Tubulin/TubZ; GTPase domain [IPR000176]; Tuberin [IPR000217]; (2); Tubulin/TubZ; 2-layer sandwich domain [IPR018316] (2); Tubulin/TubZ; C-terminal [IPR008280] (2); Tubulin/reproductive organ-expressed protein [IPR001585] (2); Tubulin; converted [IPR000174] (1); Tubulin, C-terminal [IPR023123] (1)	scaffold_5_mRNA_5025.1	C_umshiu_00192_mRNA_14.1	-
GF0022935	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_5023.2	C_umshiu_00192_mRNA_12.2	-	
GF0022934	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_5022.1	C_umshiu_00192_mRNA_11.1	-	
GF0022933	1	1	0	0 Hypothetical protein (2)	protein retention in ER lumen [GO:0006621 biological process] (2); glycoprotein alpha-N-acetylgalactosaminidase activity [GO:000526 molecular function] (2); catalytic activity [GO:0003824 molecular function] (2); integral component of membrane [GO:0016021 cellular component] (2); ER retention sequence binding [GO:0046923 molecular function] (2); best blast hit protein binding [GO:0013072 molecular function] (2); unfolded protein binding [IPR001082 molecular function] (2)	ER lumen protein retaining receptor [IPR000153] (2); Sia-binding glycosidase-like [IPR000982] (2); Glycosidase family 100 [IPR024746] (2)	scaffold_5_mRNA_5020.1	C_umshiu_00192_mRNA_9.1	-
GF0022932	1	1	0	0 Protein disulfide-isomerase LQY1 (2)	transmembrane transport [GO:0005085 biological process] (2); integral component of membrane [GO:0016021 cellular component] (2); voltage-gated anion channel activity [GO:0008308 molecular function] (1); cellular ion homeostasis [GO:0006873 biological process] (1)	Heat shock protein DnaJ, cysteine-rich domain [IPR001305] (2)	scaffold_5_mRNA_5009.1	C_umshiu_00009_mRNA_158.1	-
GF0022931	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_5.1	C_umshiu_00230_mRNA_29.1	-	
GF0022928	1	1	0	0 Transmembrane and coiled-coil protein (2)	Protein of unknown function DUF726 [IPR007941] (2); Alpha/Beta hydrolase fold [IPR020508] (2)	scaffold_5_mRNA_4975.1	C_umshiu_00009_mRNA_123.1	-	
GF0022926	1	1	0	0 S-type anion channel SLAH1 (2)	Voltage-dependent anion channel [IPR004695] (2); S-type anion channel [IPR03183] (1)	scaffold_5_mRNA_4970.1	C_umshiu_00009_mRNA_120.1	-	
GF0022925	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_4964.1	C_umshiu_00009_mRNA_114.1	-	
GF0022922	1	1	0	0 Hypothetical protein (2)	Cyclin-like [IPR013763] (1)	scaffold_5_mRNA_4930.1	C_umshiu_00127_mRNA_33.1	-	
GF0022921	1	1	0	0 Hypothetical protein (2)	P-loop-containing nucleoside triphosphate hydrolase [IPR027417] (2)	scaffold_5_mRNA_4927.1	C_umshiu_00127_mRNA_36.1	-	
GF0022919	1	1	0	0 Hypothetical protein (2)	ZF-HD homeobox protein, Cys/His-rich dimerization domain [IPR006456] (2); Homeodomain, ZF-HD class [IPR006455] (2); Homeodomain-like [IPR009657] (1); Homeodomain, ZF-HD class-like [IPR009657] (1)	scaffold_5_mRNA_4911.1	C_umshiu_00127_mRNA_50.1	-	
GF0022918	1	1	0	0 Zinc finger homeodomain protein 1 (1); Zinc-finger homeodomain protein 1 (1)	DNA binding [GO:0003677 molecular function] (2)	Zinc finger homeodomain protein 1 (1); Zinc-finger homeodomain protein 1 (1)	scaffold_5_mRNA_4902.1	C_umshiu_00079_mRNA_4.1	-
GF0022917	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_4900.1	C_umshiu_01543_mRNA_5.1	-	
GF0022911	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_4847.1	C_umshiu_00234_mRNA_23.1	-	
GF0022909	1	1	0	0 DUF617 family protein (2)	Protein of unknown function DUF617, plant [IPR006460] (1); Protein MIZL2-KUSSE1-like, plant [IPR006460] (1)	scaffold_5_mRNA_4811.1	C_umshiu_00013_mRNA_108.1	-	
GF0022908	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_4796.1	C_umshiu_00951_mRNA_18.1	-	
GF0022905	1	1	0	0 Putative succinate dehydrogenase 5-like (1); Succinate dehydrogenase 5 (1)	Protein of unknown function DUF4370 [IPR025397] (2)	scaffold_5_mRNA_4789.1	C_umshiu_00951_mRNA_12.1	-	
GF0022902	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_478.1	C_umshiu_00308_mRNA_3.1	-	
GF0022901	1	1	0	0 Hypothetical protein (2)	protein binding [GO:0005515 nucleic acid binding] (2); RNA-DNA hybridization [GO:0005516 molecular function] (1); nucleic acid binding [GO:0005523 molecular function] (1); nucleic acid binding [GO:0003676 molecular function] (1)	WD40 repeat [IPR016180] (1); WD40 repeat [IPR002156] (1); Ribonuclease H domain [IPR002156] (1); Ribonuclease H-like domain [IPR01233] (1)	scaffold_5_mRNA_477.1	C_umshiu_00610_mRNA_8.1	-
GF0022899	1	1	0	0 Hypothetical protein (2)	regulation of defense response [GO:001347 biological process] (2); ubiquitin-protein transferase activity [GO:0004842 molecular function] (2); nucleus [GO:0005634 cellular component] (2); protein localization [GO:0016667 biological process] (2); zinc ion binding [GO:0000270 molecular function] (2); protein binding [GO:0005515 molecular function] (2)	Zinc finger, RING-type [IPR001841] (2); E3 ubiquitin-protein ligase BOI [IPR017066] (2); Zinc finger, RING/FYVE/PHD-type [IPR013083] (1)	scaffold_5_mRNA_4756.1	C_umshiu_00096_mRNA_42.1	-
GF0022897	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_475.1	C_umshiu_00646_mRNA_7.1	-	
GF0022895	1	1	0	0 Poly(A) binding protein 6, putative isoform 1 (2)	RNA binding [GO:0003723 molecular function] (2); nucleic acid binding [GO:0005676 molecular function] (2); nucleotide binding [GO:0000166 molecular function] (1)	Polyadenylation protein/Hypothetic disc protein [IPR020204] (2); RNA recognition motif domain, eukaryote [IPR003954] (2); RNA recognition motif domain [IPR000504] (2); Polyadenylation protein, putative, isoform 1 [IPR003955] (2); Nucleotide-binding alpha-beta phat domain [IPR012677] (1)	scaffold_5_mRNA_4741.1	C_umshiu_00096_mRNA_31.1	-
GF0022893	1	1	0	0 Serine/threonine-protein kinase WNK (2)	Transcription factor MYCMYB N-terminal [IPR025610] (2)	scaffold_5_mRNA_4730.1	C_umshiu_00096_mRNA_19.1	-	
GF0022892	1	1	0	0 Cyclin D (2)	Cyclin, C-terminal domain [IPR004367]	scaffold_5_mRNA_4726.1	C_umshiu_00096_mRNA_13.1	-	
GF0022890	1	1	0	0 Hypothetical protein (2)	Zinc finger, RING-type [IPR001841] (2); Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Protein of unknown function DUF1232 [IPR01652] (1); Zinc finger, RING-type [IPR001841] (2); Zinc finger, RING-type, conserved site [IPR017907] (2)	scaffold_5_mRNA_4705.1	C_umshiu_01089_mRNA_10.1	-	
GF0022888	1	1	0	0 C3HC4-type RING finger protein (2)	protein binding [GO:0005515 molecular function] (2); zinc ion binding [GO:0008270 molecular function] (2)	scaffold_5_mRNA_4696.1	C_umshiu_01089_mRNA_17.1	-	
GF0022886	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_4697.1	C_umshiu_01033_mRNA_11.1	-	
GF0022885	1	1	0	0 Epidermal patterning factor (2)	-	scaffold_5_mRNA_4681.1	C_umshiu_01033_mRNA_5.1	-	
GF0022884	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_4676.1	C_umshiu_00457_mRNA_31.1	-	
GF0022881	1	1	0	0 Hypothetical protein (2)	histidinol-phosphate transamidase activity [GO:0004400 molecular function] (1); biosynthetic process [GO:0009058 biological process] (1); histidinol-phosphate biosynthetic process [GO:0005824 molecular function] (1); pyridoxal phosphate binding [GO:0030170 molecular function] (1); histidine biosynthetic process [GO:0000105 biological process] (1)	Protein of unknown function DUF16 [IPR006552] (2); Pyridoxal phosphate-dependent transferase, major region, subdomain 1 [IPR015421] (2); Adenosyltransferase, major region, subdomain 1 [IPR015422] (2); Pyridoxal phosphate-dependent transferase [IPR015424] (1); Histidinol-phosphate amide amidohydrolase [IPR005861] (1); Pyridoxal phosphate-containing nucleic triphosphate hydrolase [IPR027417] (2); OPN-loop GTBase [IPR004130] (2); OPN-loop GTBases [IPR030231] (2)	scaffold_5_mRNA_4657.1	C_umshiu_00457_mRNA_11.1	-
GF0022880	1	1	0	0 Similar to ATP-binding domain 1 family member B (1); GPN-loop GTBase 2 (1)	-	scaffold_5_mRNA_465.1	C_umshiu_00646_mRNA_10.1	-	
GF0022879	1	1	0	0 CCA tRNA nucleotidyltransferase, mitochondrial (2)	RNA binding [GO:0003723 molecular function] (2); RNA processing [GO:0005396 biological process] (2); nucleotidyltransferase activity [GO:0005402 molecular function] (2)	Poly A polymerase, head domain [IPR02046] (2)	scaffold_5_mRNA_4642.1	C_umshiu_00802_mRNA_5.1	-
GF0022875	1	1	0	0 Hypothetical protein (1); F-actin capping protein beta subunit (1)	F-actin capping protein subunit beta [IPR001698] (2); F-actin capping protein, beta subunit, conserved site [IPR019771] (2)	scaffold_5_mRNA_4619.1	C_umshiu_00495_mRNA_17.1	-	
GF0022873	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_4615.1	C_umshiu_00046_mRNA_29.1	-	
GF0022872	1	1	0	0 Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological process] (2)	FHY3/FAR1 family [IPR031052] (2); FAR1 DNA binding domain [IPR004330] (2)	scaffold_5_mRNA_4614.1	C_umshiu_00046_mRNA_28.1	-
GF0022870	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_460.1	C_umshiu_00046_mRNA_22.1	-	
GF0022869	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_46.1	C_umshiu_00046_mRNA_25.1	-	
GF0022868	1	1	0	0 Hypothetical protein (2)	enzyme inhibitor activity [GO:0004857 molecular function] (1)	Pectinesterase inhibitor domain [IPR006501] (1)	scaffold_5_mRNA_4580.1	C_umshiu_00278_mRNA_25.1	-
GF0022867	1	1	0	0 Hypothetical protein (2)	-	scaffold_5_mRNA_4571.1	C_umshiu_00556_mRNA_1.1	-	

ID	Num. in C.clementiae	Num. in C. caninum	Num. in P. trifolii	Note	GO	InterPro	Members in C.clementiae	Members in C.caninum	Members in P. trifolii
GF0022865	1	1	0	Cupredoxin superfamily protein, putative (2)	Cupredoxin [IPR008972] (2)	scaffold_5_mRNA_4554.1	C_unshiu_00430_mRNA_18.1	-	
GF0022863	1	1	0	D def domain zinc finger protein (2)	regulation of transcription, DNA-templated [GO:0006355]; biological_process [2]; DNA binding [GO:0003677 molecular_function] (2)	Zinc finger, Dof-type [IPR030851] (2)	scaffold_5_mRNA_4521.1	C_unshiu_00183_mRNA_14.1	-
GF0022862	1	1	0	Hypothetical protein (2)		PGI domain [IPR026961] (2)	scaffold_5_mRNA_4520.1	C_unshiu_00183_mRNA_15.1	-
GF0022861	1	1	0	EFT1 protein (2)	NTR2-like domain [IPR033710] (2)	scaffold_5_mRNA_4513.1	C_unshiu_00183_mRNA_22.1	-	
GF0022859	1	1	0	Retrotransposon protein, putative, Ty1-copia subclass (1); Putative retroelement polypolytene (1)	copia subclass (1); Putative retroelement polypolytene (1)	scaffold_5_mRNA_450.1	C_unshiu_01064_mRNA_9.1	-	
GF0022858	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPR012337] (1)	scaffold_5_mRNA_4498.1	C_unshiu_00183_mRNA_39.1	-
GF0022857	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2); zinc ion binding [GO:0009270 molecular_function] (1)	Reverse transcriptase zinc-binding domain [IPR026960] (2); Zinc knuckle CX2CX4HXXAC [IPR025836] (1); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_5_mRNA_4492.1	C_unshiu_00183_mRNA_45.1	-
GF0022856	1	1	0	Geranil dehydrogenase 1 (2)	oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (1); zinc ion binding [GO:0009270 molecular_function] (1)	Ribonuclease H-like domain [IPR012337] (1)	scaffold_5_mRNA_4485.1	C_unshiu_00319_mRNA_40.1	-
GF0022855	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0046983 molecular_function] (2)	Alcohol dehydrogenase, N-terminal [IPR013154] (2); NAD(P)-binding domain [IPR016040] (1); Alcohol dehydrogenase superfamily, zinc-type [IPR002085] (1)	scaffold_5_mRNA_4482.1	C_unshiu_00319_mRNA_37.1	-
GF0022854	1	1	0	Hypothetical protein (2)		NAD(P)-binding domain [IPR016040] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (2); Nitrilase-like domain [IPR008030] (2); Plant methyltransferase dimerization [IPR012967] (2)	scaffold_5_mRNA_447.1	C_unshiu_01064_mRNA_6.1	-
GF0022853	1	1	0	Hypothetical protein (2)	protein kinase activity [GO:0004672 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2); ATP binding [GO:0005524 molecular_function] (2)	Protein kinase domain [IPR013441] (2); Protein kinase-like domain [IPR001709] (2); Protein kinase domain [IPR02290]	scaffold_5_mRNA_4456.1	C_unshiu_02773_mRNA_1.1	-
GF0022852	1	1	0	Hypothetical protein (2)		scaffold_5_mRNA_4451.1	C_unshiu_00238_mRNA_36.1	-	
GF0022851	1	1	0	Hypothetical protein (2)		scaffold_5_mRNA_4449.1	C_unshiu_00277_mRNA_6.1	-	
GF0022850	1	1	0	Protein translocase SecA family protein, putative isoform 8 (2)	zinc ion binding [GO:0008270 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2)	Zinc finger, RING-type [IPR001841] (2); WD40-VVTN repeat-like-containing domain [IPR015943] (2); WD40 repeat [IPR001680] (2); WD40-repeat-containing domain [IPR001680] (2)	scaffold_5_mRNA_4418.1	C_unshiu_00238_mRNA_7.1	-
GF0022849	1	1	0	Acyl-CoA N-acyltransferases (NAT) superfamily protein isoform 1 (2)		Protein N-acetyltransferase [IPR013105] (2); Acetyl-CoA N-acetyltransferase [IPR013101] (2)	scaffold_5_mRNA_4382.1	C_unshiu_00477_mRNA_19.1	-
GF0022847	1	1	0	Small glutamine-rich tetraptide/peptide repeat-containing protein alpha (2)	protein binding [GO:0005515 molecular_function] (2)	Tetratricopeptide-like helical domain [IPR011990] (2); Tetratricopeptide repeat 2 [IPR013105] (2); Tetratricopeptide repeat [IPR019734] (2); Tetratricopeptide repeat-containing domain [IPR013026] (2)	scaffold_5_mRNA_4363.1	C_unshiu_00144_mRNA_7.1	-
GF0022846	1	1	0	Hypothetical protein (2)		Aspartic peptide domain [IPR021109] (1)	scaffold_5_mRNA_436.1	C_unshiu_00378_mRNA_6.1	-
GF0022845	1	1	0	Hypothetical protein (2)		EF-hand domain [IPR011992] (2); EF-Hand 1, calcium-binding site [IPR012471] (2); EF-hand domain [IPR012471] (2)	scaffold_5_mRNA_4355.1	C_unshiu_02644_mRNA_3.1	-
GF0022842	1	1	0	Putative calcium-binding protein CM2L29	calcium ion binding [GO:0005509 molecular_function] (2)	Glycoside hydrolase superfamily 17 [IPR000490] (1); Glycoside hydrolase, catalytic domain [IPR013781]	scaffold_5_mRNA_4308.1	C_unshiu_00088_mRNA_11.1	-
GF0022841	1	1	0	Putative calcium-binding protein CM2L25 (1)	hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular_function] (1); carbohydrate metabolic process [GO:0009575 biological_process] (1)	EF-Hand 1, calcium-binding site [IPR017853] (2); Glycoside hydrolase family 17 [IPR000490] (1); Glycoside hydrolase, catalytic domain [IPR013781]	scaffold_5_mRNA_4303.1	C_unshiu_00088_mRNA_18.1	-
GF0022840	1	1	0	Transmembrane protein 50A (2)		Unclassified protein family UPF0220 [IPR000490] (2)	scaffold_5_mRNA_4300.1	C_unshiu_00088_mRNA_20.1	-
GF0022839	1	1	0	Hypothetical protein (2)		DNA-binding pseudoretail domain [IPR015300] (2)	scaffold_5_mRNA_43.1	C_unshiu_00231_mRNA_2.1	-
GF0022837	1	1	0	Galactosyltransferase family protein (2)	galactosyltransferase activity [GO:0006378 molecular_function] (2); membrane [GO:0016020 cellular_component] (2); protein glycation [GO:0004846 biological_process] (2)	Domain of unknown function DUF4094 [IPR025293] (2); Glycosyl transferase family 31 [IPR002659] (2)	scaffold_5_mRNA_4296.1	C_unshiu_00088_mRNA_23.1	-
GF0022836	1	1	0	Hypothetical protein (2)		scaffold_5_mRNA_429.1	C_unshiu_00378_mRNA_28.1	-	
GF0022835	1	1	0	Hypothetical protein (2)		scaffold_5_mRNA_428.1	C_unshiu_00378_mRNA_27.1	-	
GF0022832	1	1	0	Farnesylated protein 2 (2)	metal ion transport [GO:0030001 biological_process] (2); metal ion binding [GO:0046872 molecular_function] (2)	Heavy metal-associated domain, HMA [IPR006121] (2)	scaffold_5_mRNA_4266.1	C_unshiu_00088_mRNA_45.1	-
GF0022831	1	1	0	Hypothetical protein (1); MADS-box protein AGL66 (1)	transcription factor activity, sequence-specific DNA binding [GO:0001700 molecular_function] (1); MAPK cascade [GO:0000165 biological_process] (1); molecular_function [1]; nucleus [GO:0000563 cellular_component] (1); protein dimerization-molecular_function [1]; regulation of transcription from RNA polymerase II promoter [GO:0004544 biological_process] (1); regulation of transcription, DNA-templated [GO:0006355 biological_process] (1);	Transcription factor, MADS-box [IPR002100] (1); Transcription factor, K-box [IPR002487] (1); MADS MEIF2-like [IPR033896] (1)	scaffold_5_mRNA_4265.1	C_unshiu_00088_mRNA_46.1	-
GF0022830	1	1	0	2,3-bisphosphoglycerate-dependent phosphoglycerolipase ABHD6 (2)	metabolic process [GO:0001652 biological_process] (2); intramolecular transferase activity, nucleic acid transferase [GO:0003624 molecular_function] (2); nucleic acid binding [GO:0004619 molecular_function] (2); glycolytic process [GO:0000696 biological_process] (2)	Histidine phosphate superfamily, clade-1 [IPR013078] (2); Phosphoglycerate-bisphosphoglycerate mutase, active site [IPR003451] (2); Histidine phosphate superfamily [IPR020031] (2); Phosphoglycerate mutase 1 [IPR005952] (2)	scaffold_5_mRNA_4254.1	C_unshiu_00088_mRNA_64.1	-
GF0022829	1	1	0	Monacylglycerol lipase ABHD6 (2)	catalytic activity [GO:0003824 molecular_function] (2)	Alpha/beta hydrolase fold-1 [IPR000073] (2); Alpha/Beta hydrolase fold [IPR029058] (2); Epoxye hydrolyase-like [IPR000639] (2); Alpha/beta hydrolase fold-5 [IPR029059] (1)	scaffold_5_mRNA_4218.1	C_unshiu_00241_mRNA_14.1	-
GF0022825	1	1	0	Hypothetical protein (2)	transferase activity, transferring hexosyl groups [GO:0010758 molecular_function] (2); metabolic process [GO:0008152 biological_process] (2); antipporter activity [GO:0015295 molecular_function] (2)	scaffold_5_mRNA_421.1	C_unshiu_00059_mRNA_40.1	-	
GF0022824	1	1	0	UDP-glycosyltransferase 85A1 (2)	UDP-glucuronosyl/UDP-glucosyltransferase [IPR002213] (2)	scaffold_5_mRNA_4205.1	C_unshiu_02009_mRNA_2.1	-	
GF0022823	1	1	0	Hypothetical protein (2)		scaffold_5_mRNA_4203.1	C_unshiu_02009_mRNA_3.1	-	
GF0022822	1	1	0	Hypothetical protein (2)		scaffold_5_mRNA_4179.1	C_unshiu_00406_mRNA_25.1	-	
GF0022819	1	1	0	Putative MATE efflux family protein (2)	transmembrane transporter [GO:0002088] (2); drug transmembrane transporter [GO:0006855 biological_process] (2); drug transmembrane transporter activity [GO:0015295 molecular_function] (2); membrane [GO:0015238 molecular_function] (2); membrane [GO:0016020 cellular_component] (2)	Multi antimicrobial extrusion protein [IPR002528] (2)	scaffold_5_mRNA_4159.1	C_unshiu_02304_mRNA_4.1	-
GF0022818	1	1	0	Hypothetical protein (2)		scaffold_5_mRNA_4131.1	C_unshiu_00255_mRNA_12.1	-	
GF0022813	1	1	0	Hypothetical protein (2)		scaffold_5_mRNA_4130.1	C_unshiu_00255_mRNA_11.1	-	
GF0022812	1	1	0	Hypothetical protein (1); Peptide upstream ORF protein (1)		scaffold_5_mRNA_4128.1	C_unshiu_00255_mRNA_9.1	-	
GF0022811	1	1	0	RNA small subunit methyltransferase A (1)		scaffold_5_mRNA_4113.1	C_unshiu_00718_mRNA_10.1	-	
GF0022810	1	1	0	Hypothetical protein (1); Putative sensor kinase/phosphotransferase cqsS-like (1)	zinc ion binding [GO:0008270 molecular_function] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	Hartinger transposon-derived nucleic acid domain [IPR001878] (1); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_5_mRNA_410.1	C_unshiu_01699_mRNA_4.1	-
GF0022806	1	1	0	Ankyrin repeat protein (2)	Ankyrin repeat [IPR002110] (2); Ankyrin repeat-containing domain [IPR0200683] (2); P55 domain [IPR026966] (2)	scaffold_5_mRNA_408.1	C_unshiu_00664_mRNA_11.1	-	
GF0022805	1	1	0	Hypothetical protein (7)		scaffold_5_mRNA_4075.1	C_unshiu_00047_mRNA_50.1	-	

ID	Num. in C.clementiae	Num. in C. cambricus	Num. in P. trifoliolate	Note	GO	InterPro	Members in C.clementiae	Members in C.cambricus	Members in P.trifoliolate
GF0022802	1	1	0	Hypothetical protein (2)	NAD ⁺ -ADP-ribose transferase activity [GO:00003950] molecular function (2) structural constituent of ribosome [GO:00003735] molecular function (2); translation [GO:000412] biological process (2); rRNA binding [GO:000019] molecular function (2); ribosome [GO:0000540] cellular component (2); chloroplast [GO:00009507] cellular component (2)	Poly(ADP-ribose) polymerase, catalytic domain [IPR012317] (2)	scaffold_5_mRNA_4048.1	C_unshiu_00042_mRNA_20.1	-
GF0022801	1	1	0	50S ribosomal protein 6, chloroplast (2)	Ribosomal protein L6, chloroplast	[IPR020526] (2)	scaffold_5_mRNA_4046.1	C_unshiu_00042_mRNA_18.1	-
GF0022800	1	1	0	Hypothetical protein (2)	protein binding [GO:0000515] molecular function (1)	Pentatricopeptide repeat [IPR002885] (2); pentatricopeptide-like helical domain [IPR011901] (1)	scaffold_5_mRNA_404.1	C_unshiu_00664_mRNA_9.1	-
GF0022799	1	1	0	F-box protein interaction domain protein (2)	protein binding [GO:0000515] molecular function (2)	F-box domain [IPR001810] (2); F-box associated interaction domain [IPR017451] (2)	scaffold_5_mRNA_4034.1	C_unshiu_00484_mRNA_3.1	-
GF0022797	1	1	0	Hypothetical protein (2)	-	Retrotansposon gag domain [IPR001662] (2)	scaffold_5_mRNA_403.1	C_unshiu_00664_mRNA_8.1	-
GF0022795	1	1	0	Heptapeptide protein (2)	integral component of membrane [GO:0016021] cellular component (2)	Adipor/Haemolin-III-related [IPR004254] (2)	scaffold_5_mRNA_4003.1	C_unshiu_00190_mRNA_13.1	-
GF0022793	1	1	0	Transcription factor bHLH85 (2)	process deregulation activity [GO:0046983] molecular function (2)	Myc-type, basic helix-loop-helix (bHLH) domain [IPR011598] (2)	scaffold_5_mRNA_3984.1	C_unshiu_00190_mRNA_32.1	-
GF0022792	1	1	0	Hypothetical protein (1); Elongation factor 4 (1)	-	-	scaffold_5_mRNA_3978.1	C_unshiu_00190_mRNA_38.1	-
GF0022791	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0000355] biological process (1)	FHY3/FAR1 family [IPR031052] (1)	scaffold_5_mRNA_3963.1	C_unshiu_02775_mRNA_2.1	-
GF0022790	1	1	0	Hypothetical protein (2)	-	PFGE of unknown function DUF810 [IPR000528] (2)	scaffold_5_mRNA_3960.1	C_unshiu_00321_mRNA_17.1	-
GF0022788	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_3941.1	C_unshiu_02182_mRNA_2.1	-	
GF0022787	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_394.1	C_unshiu_00397_mRNA_2.1	-	
GF0022786	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_3919.1	C_unshiu_00067_mRNA_60.1	-	
GF0022785	1	1	0	Hypothetical protein (2)	-	Munc13 homology 1 [IPR014770] (2); Peptidase of unknown function DUF810 [IPR000528] (2)	scaffold_5_mRNA_3918.1	C_unshiu_00067_mRNA_61.1	-
GF0022784	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676] molecular function (2)	Ribosomal H-like domain [IPR012337] (2)	scaffold_5_mRNA_3917.1	C_unshiu_00067_mRNA_62.1	-
GF0022782	1	1	0	Ankyrin repeat family protein, putative (1); Ankyrin repeat protein (1)	protein binding [GO:0000515] molecular function (2)	Ankyrin repeat-containing domain [IPR020683] (2); PGG domain [IPR020691] (2); Ankyrin repeat [IPR002110] (2)	scaffold_5_mRNA_390.1	C_unshiu_00165_mRNA_20.1	-
GF0022781	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_388.1	C_unshiu_00165_mRNA_24.1	-	
GF0022779	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_385.1	C_unshiu_00165_mRNA_27.1	-	
GF0022778	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_3848.1	C_unshiu_01774_mRNA_4.1	-	
GF0022777	1	1	0	Epoxydase hydrolase 2 (2)	catalytic activity [GO:0003824] molecular function (2)	Alpha/Beta hydrolase fold-1 [IPR000073] (2); Alpha/Beta hydrolase fold [IPR020858] (2); Epoxydase hydrolase-like [IPR000639] (2)	scaffold_5_mRNA_3841.1	C_unshiu_01107_mRNA_4.1	-
GF0022775	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_3821.1	C_unshiu_00170_mRNA_2.1	-	
GF0022774	1	1	0	Translationally-controlled tumor protein homolog (2)	-	scaffold_5_mRNA_3820.1	C_unshiu_00214_mRNA_48.1	-	
GF0022772	1	1	0	Translationally-controlled tumor protein	-	Translationally controlled tumour protein [IPR018105] (2); Mst3-like [IPR011057] (2); Translationally controlled tumour protein, conserved site [IPR018103] (2); Mst3/translationally controlled tumour-associated TCTP [IPR011212] (1); Translationally controlled tumor protein (TCTP) domain [IPR034737] (1)	scaffold_5_mRNA_3799.1	C_unshiu_00214_mRNA_33.1	-
GF0022771	1	1	0	Hypothetical protein (1); Desiccation PCC13-like protein (1)	-	Ferritin-related [IPR012347] (2)	scaffold_5_mRNA_3784.1	C_unshiu_00214_mRNA_21.1	-
GF0022770	1	1	0	Zinc finger protein MAGPIE (2)	nucleic acid binding [GO:0003676] molecular function (2); metal ion binding [GO:0046872] molecular function (1)	Zinc finger C2H2-type [IPR013087] (1); Zinc finger C2H2-type [IPR013087] (1); Zinc finger C2H2-type [IPR013087] (1); Zinc finger C2H2-type [IPR015880] (1); Zinc finger, double-stranded RNA binding [IPR022755] (1)	scaffold_5_mRNA_3770.1	C_unshiu_00214_mRNA_6.1	-
GF0022769	1	1	0	Hypothetical protein (2)	catalytic activity [GO:0003824] molecular function (2); fatty acid hydrolytic process [GO:0006633] biological process (2); transferase activity, transferring acyl groups other than amino-acyl groups [GO:0016747] molecular function (2); membrane [GO:0016020] cellular component (2); metabolic process [GO:0000152] biological process (2)	3-Oxoacyl-[acyl-carrier-protein (ACP)] synthase III, C-terminal [IPR013747] (2); FAE1/Type III polyketide synthase-like protein [IPR011009] (2); very-long-chain fatty-acid ACP synthase [IPR012392] (2); Thiolese-like [IPR016039] (2)	scaffold_5_mRNA_377.1	C_unshiu_00328_mRNA_10.1	-
GF0022765	1	1	0	Hypothetical protein (2)	-	Arabidopsis retrotransposon Orf1 [IPR004312] (2)	scaffold_5_mRNA_376.1	C_unshiu_00328_mRNA_8.1	-
GF0022764	1	1	0	Hypothetical protein (2)	-	Protein kinase domain [IPR007199] (2); Protein kinase-like domain [IPR011009] (2); Serine/threonine-protein kinase domain [IPR012445] (1); Serine/threonine/tyrosine-protein kinase catalytic domain [IPR012445] (1)	scaffold_5_mRNA_3745.1	C_unshiu_00907_mRNA_3.1	-
GF0022762	1	1	0	Hypothetical protein (2)	-	Histone H3/CENP-A [IPR000164] (2); Histone-fold [IPR009072] (1)	scaffold_5_mRNA_3733.1	C_unshiu_00229_mRNA_24.1	-
GF0022761	1	1	0	Hypothetical protein (2)	-	Tetratricopeptide-like helical domain [IPR011990] (2); Pre-mRNA-processing factor 6/Pep1/ST1A [IPR027108] (2); HAT (Halt-A-TPR) repeat [IPR003107] (1); Tetratricopeptide repeat-containing domain [IPR013026] (1)	scaffold_5_mRNA_373.1	C_unshiu_00328_mRNA_7.1	-
GF0022758	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_370.1	C_unshiu_00328_mRNA_4.1	-	
GF0022756	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_3684.1	C_unshiu_00224_mRNA_31.1	-	
GF0022755	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_3683.1	C_unshiu_00224_mRNA_30.1	-	
GF0022753	1	1	0	Hypothetical protein (2)	-	Reverse transcriptase, RNA-dependent DNA polymerase [IPR013103] (1)	scaffold_5_mRNA_3662.1	C_unshiu_00213_mRNA_53.1	-
GF0022751	1	1	0	Hypothetical protein (2)	protein binding [GO:0000515] molecular function (2); mRNA splicing via spliceosome [GO:0000398] biological process (1)	Tetratricopeptide-like helical domain [IPR011990] (2); Pre-mRNA-processing factor 6/Pep1/ST1A [IPR027108] (2); HAT (Halt-A-TPR) repeat [IPR003107] (1); Tetratricopeptide repeat-containing domain [IPR013026] (1)	scaffold_5_mRNA_3660.1	C_unshiu_00224_mRNA_7.1	-
GF0022750	1	1	0	Hypothetical protein (2)	protein binding [GO:0000515] molecular function (2); mRNA splicing via spliceosome [GO:0000398] biological process (2); RNA processing [GO:0003696] biological process (1)	scaffold_5_mRNA_3659.1	C_unshiu_00224_mRNA_6.1	-	
GF0022749	1	1	0	Hypothetical protein (2)	-	Inosine/uridine-prefering nucleoside hydrolase [IPR023186] (2); Inosine/uridine-prefering nucleoside hydrolase domain [IPR001910] (2)	scaffold_5_mRNA_3656.1	C_unshiu_00224_mRNA_1.1	-
GF0022748	1	1	0	Inosine-uridine preferring nucleoside hydrolase (2)	-	scaffold_5_mRNA_3629.1	C_unshiu_00453_mRNA_3.1	-	
GF0022747	1	1	0	Histidine-containing phosphotransferase protein 4 (2)	signal transducer activity [GO:000487] molecular function (2); phosphorylation signal transduction system [GO:000160] biological process (2)	scaffold_5_mRNA_3627.1	C_unshiu_00226_mRNA_4.1	-	
GF0022745	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_3623.1	C_unshiu_01771_mRNA_8.1	-	
GF0022744	1	1	0	Hypothetical protein 1; Sugar transporter ERD6-like 16 (1)	integral component of membrane [GO:0016021] cellular component (2); transmembrane transporter activity [GO:0022857] molecular function (2); transmembrane transport [GO:0055985] biological process (2)	Major facilitator, sugar transporter-like [IPR005828] (2); Major facilitator superfamily domain [IPR020846] (2)	scaffold_5_mRNA_3621.1	C_unshiu_00226_mRNA_1.1	-
GF0022741	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_358.1	C_unshiu_00036_mRNA_72.1	-	
GF0022740	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_3546.1	C_unshiu_00433_mRNA_23.1	-	
GF0022736	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0000355] biological process (2); transcription factor activity, sequence-specific DNA binding [GO:0003700] molecular function (2); DNA binding [GO:0003677] molecular function (2)	AP2/ERF domain [IPR001471] (2); DNA-binding domain [IPR016177] (2); Frigida-like [IPR012474] (1)	scaffold_5_mRNA_3506.1	C_unshiu_00339_mRNA_22.1	-
GF0022735	1	1	0	Hypothetical protein (2)	-	Fragile-like [IPR012474] (2); D1IV domain [IPR022867] (2); Tetrasicopeptide-like helical domain [IPR011990] (2); Pentatricopeptide repeat [IPR02885] (2)	scaffold_5_mRNA_3502.1	C_unshiu_00339_mRNA_13.1	-
GF0022730	1	1	0	Penicillopeptide repeat-containing family protein (2)	zinc ion binding [GO:0008270] molecular function (2); protein binding [GO:0000515] molecular function (2)	Glutathione S-transferase, N-terminal transferase, C-terminal-like [IPR010987] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC scaffold_5_mRNA_3439.1	C_unshiu_00205_mRNA_16.1	-	
GF0022727	1	1	0	Glutathione S-transferase zeta class (2)	protein binding [GO:0000515] molecular function (2)	Thioredoxin-like fold [IPR012336] (2); Glutathione S-transferase, C-terminal-like [IPR000405] (2); Glutathione-S-transferase, C-terminal-like [IPR010987] (2)	scaffold_5_mRNA_34.1	C_unshiu_00230_mRNA_57.1	-
GF0022726	1	1	0	Hypothetical protein (2)	ADP binding [GO:0043531] molecular function (2)	[IPR004045] (2); Glutathione-S-transferase, C-terminal-like [IPR010987] (2)	C_unshiu_02124_mRNA_1.1	-	
GF0022725	1	1	0	Hypothetical protein (2)	-	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC scaffold_5_mRNA_3382.1	C_unshiu_02124_mRNA_2.1	-	
GF0022724	1	1	0	Disease resistance protein (1); Disease resistance protein RPS2 (1)	leucine-rich repeat domain, I domain-like [IPR023675] (2); Winged-helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_5_mRNA_3373.1	C_unshiu_00660_mRNA_13.1	-	
GF0022723	1	1	0	Hypothetical protein (2)	Phosphoprotein phosphatase isoform 3	scaffold_5_mRNA_3366.1	C_unshiu_02743_mRNA_4.1	-	
GF0022722	1	1	0	(1); Cc-nbs-lrr resistance protein, (1)	Lysine-rich repeat domain, I domain-like [IPR023675] (2)	scaffold_5_mRNA_3364.1	C_unshiu_00304_mRNA_19.1	-	

ID	Num in <i>C. clementiae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0022721	1	1	0 (2)	NBS-LRR type disease resistance protein	ADP binding [GO:0043531] molecular function [2]	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC repeat [IPR002182] (2)	scaffold_5_mRNA_3352.1	C_unshiu_00570_mRNA_20.1	-
GF0022720	1	1	0 Hypothetical protein (2)	Disease resistance protein (1); Hypothetical protein (1)	GTP binding [GO:0005525] molecular function [2]; small GTPase mediated signal transduction [GO:0007264 biological process] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Mitochondrial RNA-like [IPR013684] (1); scaffold_5_mRNA_335.1	scaffold_5_mRNA_335.1	C_unshiu_02337_mRNA_3.1	-
GF0022719	1	1	0 Hypothetical protein (2)	Disease resistance protein (CC-NBS-1 LRR class) family protein (1); Hypothetical protein (1)	protein binding [GO:000515] molecular function [2]; ADP binding [GO:0043531] molecular function [1]	Armadillo-like helix [IPR011989] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Atypical Arm repeat [IPR032413] (2); Armadillo-like [IPR000225] (2); Armadillo fold [IPR000226] (2); Winged helix-like helix [IPR000227] (2); Zinc finger, C-terminal [IPR011991] (1); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1); NB-ARC repeat [IPR02182] (1)	scaffold_5_mRNA_3334.1	C_unshiu_00812_mRNA_2.1	-
GF0022717	1	1	0 Hypothetical protein (2)	protein folding [GO:0006457] biological process [2]; unfolded protein binding [GO:0005182] molecular function [2]	HSP40/DnaJ peptidase-binding [IPR008971] (2); Chaperone DnaJ, C-terminal [IPR0003939] (1)	scaffold_5_mRNA_3319.1	C_unshiu_00570_mRNA_21.1	-	
GF0022714	1	1	0 Hypothetical protein (2)	ubiquitin-protein transferase activity [GO:0004842 molecular function] (2); protein ubiquitination [GO:0016567] biological process [2]; zinc ion binding [GO:000270] molecular function [2]; protein binding [GO:000515] molecular function [2]	Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); E3 ubiquitin ligase RBR family [IPR031271] (2); Zinc finger, RING-type [IPR001541] (2)	scaffold_5_mRNA_3284.1	C_unshiu_00731_mRNA_13.1	-	
GF0022709	1	1	0 Hypothetical protein (2)	DNA-directed RNA polymerase activity [GO:0003899 molecular function] (1); DNA binding [GO:0003677] molecular function [1]; transcription, DNA-templated [GO:0006351] biological process [1]; DNA-directed RNA binding [GO:0003677] molecular function [2]; transcription, DNA-templated [GO:0006351] biological process [2]; DNA-directed 5'-N RNA polymerase activity [GO:0003899 molecular function] (1)	RNA polymerase Rpb1, domain 1 [IPR007080] (1)	scaffold_5_mRNA_3265.1	C_unshiu_01493_mRNA_10.1	-	
GF0022708	1	1	0 Hypothetical protein (2)	RNA polymerase Rpb1, domain 5 [IPR007081] (2)	RNA polymerase Rpb1, domain 5 [IPR007081] (2)	scaffold_5_mRNA_3264.1	C_unshiu_01156_mRNA_4.1	-	
GF0022707	1	1	0 Hypothetical protein (2)	RNA polymerase Rpb1, domain 5 [IPR007081] (2)	RNA polymerase Rpb1, domain 5 [IPR007081] (2)	scaffold_5_mRNA_3263.1	C_unshiu_01156_mRNA_3.1	-	
GF0022706	1	1	0 Small rubber particle protein (2)	Rubber elongation factor [IPR008802] (2)	scaffold_5_mRNA_326.1	C_unshiu_02040_mRNA_3.1	-		
GF0022704	1	1	0 Hypothetical protein (2)	scaffold_5_mRNA_3236.1	C_unshiu_00451_mRNA_12.1	-			
GF0022703	1	1	0 Hypothetical protein (2)	scaffold_5_mRNA_3233.1	C_unshiu_00852_mRNA_7.1	-			
GF0022699	1	1	0 Putative non-LTR reverse transcriptase (2)	nucleic acid binding [GO:0003676] molecular function [2]	Reverse transcriptase zinc-binding domain [IPR020960] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_5_mRNA_3199.1	C_unshiu_00361_mRNA_12.1	-	
GF0022693	1	1	0 Hypothetical protein (2)	metal ion binding [GO:0046872] molecular function [1]	Zinc finger, CCCH-type [IPR000571] (1) scaffold_5_mRNA_3136.1	scaffold_5_mRNA_314.1	C_unshiu_01061_mRNA_15.1	-	
GF0022692	1	1	0 Hypothetical protein (2)	Leucine-rich repeat domain, L-domain-like [IPR032675] (2)	Zinc finger, CCCH-type [IPR000571] (1) scaffold_5_mRNA_3136.1	C_unshiu_00888_mRNA_13.1	-		
GF0022691	1	1	0 Hypothetical protein (2)	oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705] molecular function [2]; monooxygenase activity [GO:0004497] molecular function [1]	Leucine-rich repeat domain, L-domain-like [IPR032675] (2)	scaffold_5_mRNA_3130.1	C_unshiu_01691_mRNA_5.1	-	
GF0022690	1	1	0 Hypothetical protein (2)	protein binding [GO:000515] molecular function [2]	scaffold_5_mRNA_3127.1	C_unshiu_00755_mRNA_2.1	-		
GF0022689	1	1	0 Hypothetical protein (2)	SH3 domain [IPR001452] (2)	scaffold_5_mRNA_3123.1	C_unshiu_00961_mRNA_2.1	-		
GF0022687	1	1	0 Cytochrome P450 (1); Cytochrome P450 71D10, putative (1)	Cytochrome P450, conserved site [IPR017972] (2); Cytochrome P450, E-class group I [IPR020401] (1); cytochrome P450, E-class, group IV [IPR02403] (1)	scaffold_5_mRNA_31.1	C_unshiu_00230_mRNA_54.1	-		
GF0022686	1	1	0 Hypothetical protein (2)	GTP binding [GO:0005525] molecular function [2]; GTPase activity [GO:0003924 molecular function] (2); signal transduction [GO:0007165] biological process [1]; intracellular membrane-bounded organelle [GO:0005114 biological process] (1); intracellular membrane-bounded organelle [GO:0005622 cellular component] (1); nucleocytoplasmic transport [GO:0006193 biological process] (1); protein transport [GO:0005031] biological process [1]	Small GTP-binding protein domain [IPR005225] (2); Small GTPase superfamily [IPR001806] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); GTPase [IPR020241] (1); Small GTPase [IPR0024156] (1); Small GTPase superfamily [IPR003579] (1); Small GTPase superfamily, Rho type [IPR003578] (1); Small GTPase superfamily, Ras type [IPR02049] (1)	scaffold_5_mRNA_3097.1	C_unshiu_02001_mRNA_3.1	-	
GF0022685	1	1	0 Ras-like GTP-binding protein YPT1 (2)	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat, typical subtype [IPR003591] (2)	scaffold_5_mRNA_309.1	C_unshiu_00127_mRNA_4.1	-		
GF0022684	1	1	0 Hypothetical protein (2)	scaffold_5_mRNA_3083.1	C_unshiu_00219_mRNA_38.1	-			
GF0022683	1	1	0 Hypothetical protein (2)	scaffold_5_mRNA_3076.1	C_unshiu_00734_mRNA_7.1	-			
GF0022682	1	1	0 Hypothetical protein (2)	scaffold_5_mRNA_3069.1	C_unshiu_02141_mRNA_1.1	-			
GF0022681	1	1	0 Leucine Rich Repeat family protein, expressed (1); LRR receptor-like kinase family protein (1)	protein binding [GO:000515] molecular function [2]	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat, typical subtype [IPR003591] (2)	scaffold_5_mRNA_3068.1	C_unshiu_00961_mRNA_9.1	-	
GF0022680	1	1	0 Acyl-CoA binding protein 6 (2)	fatty-acyl-CoA binding [GO:0000062] molecular function [2]	Acyl-CoA-binding protein, ACBP, conserved site [IPR022408] (2); Acyl-CoA-binding protein, ACBP, conserved site [IPR000582] (2); FERM-acyl-CoA-binding protein, 3-helical bundle [IPR014352] (2)	scaffold_5_mRNA_3066.1	C_unshiu_00061_mRNA_32.1	-	
GF0022678	1	1	0 Hypothetical protein (2)	Myb domain [IPR017930] (2); SANT/Myb domain [IPR001005] (2); Homeobox domain [IPR000567] (1)	scaffold_5_mRNA_3055.1	C_unshiu_00061_mRNA_45.1	-		
GF0022677	1	1	0 Hypothetical protein (2)	EH-Hand 1, calcineurin-binding site [IPR018247] (2); EH-hand domain [IPR020048] (2); EH-hand domain pair [IPR011992] (2)	scaffold_5_mRNA_3054.1	C_unshiu_00061_mRNA_46.1	-		
GF0022676	1	1	0 Transcription factor MYB39 (2)	SANT/Myb domain [IPR001005] (2); Homeobox domain [IPR000567] (1)	scaffold_5_mRNA_3048.1	C_unshiu_00671_mRNA_11.1	-		
GF0022672	1	1	0 Calmodulin (2)	cation ion binding [GO:0005509] molecular function [2]	EF-Hand 1, calcineurin-binding site [IPR018247] (2); EF-hand domain [IPR020048] (2); EF-hand domain pair [IPR011992] (2)	scaffold_5_mRNA_3016.1	C_unshiu_00078_mRNA_37.1	-	
GF0022671	1	1	0 Putative transcription factor KAN2 (2)	DNA binding [GO:0003677] molecular function [2]	SANT/Myb domain [IPR001005] (2); Myb domain [IPR000567] (1); Homeobox domain [IPR000567] (1)	scaffold_5_mRNA_3012.1	C_unshiu_00078_mRNA_33.1	-	
GF0022670	1	1	0 Hypothetical protein (2)	nucleic acid binding [GO:0003676] molecular function [2]	Homeobox domain [IPR000567] (1)	scaffold_5_mRNA_3004.1	C_unshiu_00078_mRNA_29.1	-	
GF0022668	1	1	0 Hypothetical protein (2)	nucleic acid binding [GO:0003676] molecular function [2]	scaffold_5_mRNA_3004.1	C_unshiu_02167_mRNA_1.1	-		
GF0022662	1	1	0 Ankyrin repeat plant-like protein (2)	protein binding [GO:0005515] molecular function [2]	Alpha-helix domain [IPR000567] (2); Alpha-helix domain [IPR000567] (2); Homeodomain-like [IPR000567] (1)	scaffold_5_mRNA_2931.1	C_unshiu_00040_mRNA_14.1	-	
GF0022661	1	1	0 Putative retrofused polypotin (1); Retrovirus-related Pol polyprotein from transposon TNT 1-94 (1)	Paternal retrofused polypotin (1); biological process [2]; nucleic acid binding [GO:0003676] molecular function [2]	Alpha-helix domain [IPR000567] (2); Homeodomain-like [IPR000567] (2); Homeobox domain [IPR000567] (1)	scaffold_5_mRNA_2906.1	C_unshiu_01150_mRNA_1.1	-	
GF0022659	1	1	0 Hypothetical protein (2)	oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705] molecular function [2]; oxidation-reduction process [GO:0005514] biological process [2]; iron ion binding [GO:000506 molecular function] (2); heme binding [GO:0002037] molecular function [2]	Iron/alpha-methyl protein [IPR000567] (2); 2-Acetyl-α-pyrone domain [IPR02683] (2); PGG domain [IPR02686] (1)	scaffold_5_mRNA_290.1	C_unshiu_00159_mRNA_20.1	-	
GF0022658	1	1	0 Cytochrome P450 71D8 (2)	Cytochrome P450, conserved site [IPR017972] (2); Cytochrome P450, E-class, group I [IPR020401] (2); Cytochrome P450 [IPR00128] (2)	scaffold_5_mRNA_29.1	C_unshiu_00230_mRNA_52.1	-		
GF0022657	1	1	0 Hypothetical protein (2)	scaffold_5_mRNA_2888.1	C_unshiu_00389_mRNA_17.1	-			
GF0022656	1	1	0 Hypothetical protein (2)	scaffold_5_mRNA_2879.1	C_unshiu_01065_mRNA_7.1	-			
GF0022652	1	1	0 Hypothetical protein (1); PAB-dependent pol(A)-specific ribonuclease subunit PAN3 (1)	Domain of unknown function DUF1336 [IPR009769] (1); Protein ENHANCED DISEASE RESISTANCE 2, C-terminal [IPR009769] (1)	scaffold_5_mRNA_2859.1	C_unshiu_01037_mRNA_4.1	-		
GF0022651	1	1	0 Putative disease resistance gene NBS-LRR family protein (2)	ADP binding [GO:0043531] molecular function [2]	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC [IPR002182]	scaffold_5_mRNA_2840.1	C_unshiu_01806_mRNA_3.1	-	
GF0022650	1	1	0 Hypothetical protein (2)	scaffold_5_mRNA_2833.1	C_unshiu_01783_mRNA_3.1	-			
GF0022649	1	1	0 Hypothetical protein (2)	scaffold_5_mRNA_283.1	C_unshiu_00159_mRNA_11.1	-			

ID	Num. in <i>C. clementine</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>	
GF0022647	1	1	0	UPF0481 protein (2)	Protein of unknown function DUF247, plant [IPR004158] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC domain [IPR021182] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_5_mRNA_2820.1	C_unshiu_00465_mRNA_3.1	-	-	
GF0022646	1	1	0	Disease resistance protein (CC-NBS-LRR class) family protein (2)	ADP binding [GO:0043531 molecular_function] (2)	scaffold_5_mRNA_2818.1	C_unshiu_00465_mRNA_4.1	-	-	
GF0022645	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2808.1	C_unshiu_02128_mRNA_1.1	-	-	
GF0022644	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2788.1	C_unshiu_01306_mRNA_7.1	-	-	
GF0022642	1	1	0	Hypothetical protein (2)	-	Pectin lyase fold [IPR012334] (2); Pectin lyase fold/vinylene factor [IPR011050] (2)	scaffold_5_mRNA_2773.1	C_unshiu_01439_mRNA_7.1	-	
GF0022641	1	1	0	Hypothetical protein (2)	protein serine/threonine phosphatase activity [GO:0004722 molecular_function] (2); protein binding [GO:0005155 molecular_function] (2); protein dephosphorylation [GO:0006470 biological_process] (2); catalytic activity [GO:0003824 molecular_function] (2)	PPM-type phosphatase domain [IPR001932] (2); Threonine/threonine kinase domain [IPR012336] (2); Protein phosphatase 2C scaffold_5_mRNA_2772.1 family [IPR015655] (2); Glutathione S-transferase, N-terminal [IPR004045] (2)	scaffold_5_mRNA_2771.1	C_unshiu_01439_mRNA_6.1	-	-
GF0022640	1	1	0	Hypothetical protein (2)	-	PROTEIN-ENHANCED DISEASE RESISTANCE 2, C-domain [IPR009769] (1); Domain of unknown function DUF1336 [IPR009769] (1)	scaffold_5_mRNA_2770.1	C_unshiu_01783_mRNA_6.1	-	-
GF0022639	1	1	0	Hypothetical protein (2)	-	Ribosomal protein L15e [IPR000449] (2); Ribosomal protein L23/L15 core domain [IPR012678] (2); Ribosomal protein L15e, conserved site [IPR020925] (2); Ribosomal protein L15e core domain [IPR024794] (2)	scaffold_5_mRNA_2771.1	C_unshiu_00159_mRNA_4.1	-	-
GF0022638	1	1	0	Ribosomal protein L15 (2)	structural constituent of ribosome [GO:0003735 molecular_function] (2); translation elongation [GO:000412]	scaffold_5_mRNA_2754.1	C_unshiu_00435_mRNA_15.1	-	-	
GF0022635	1	1	0	Hypothetical protein (2)	-	Aspartic peptidase domain [IPR021109] (1)	scaffold_5_mRNA_2753.1	C_unshiu_00435_mRNA_16.1	-	-
GF0022634	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2753.1	C_unshiu_00435_mRNA_17.1	-	-	
GF0022633	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2); protein dimerization activity [GO:0046983 molecular_function] (2)	Ribonuclease H-like domain [IPR012327] (2); hAT-like transposase, RNase H fold [IPR025252] (2); HAT, C-terminal dimerization domain [IPR008006] (2)	scaffold_5_mRNA_2749.1	C_unshiu_00435_mRNA_18.1	-	-
GF0022632	1	1	0	BED zinc finger,hAT family dimerization domain (2)	-	Pwi domain [IPR003165] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_5_mRNA_2748.1	C_unshiu_02394_mRNA_2.1	-	-
GF0022631	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2744.1	C_unshiu_01625_mRNA_1.1	-	-	
GF0022630	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	scaffold_5_mRNA_2736.1	C_unshiu_00686_mRNA_3.1	-	-	
GF0022629	1	1	0	Hypothetical protein (2)	-	Transcription factor BREVIS RADIX, N-terminal domain [IPR027988] (2); Brevis radix (BREX) domain [IPR013591] (2)	scaffold_5_mRNA_2735.1	C_unshiu_00686_mRNA_4.1	-	-
GF0022628	1	1	0	Protein BREVIS RADIX (2)	-	scaffold_5_mRNA_2730.1	C_unshiu_02469_mRNA_3.1	-	-	
GF0022626	1	1	0	Hypothetical protein (2)	-	FHY3/FAR1 family [IPR031052] (2); FAR1 DNA binding domain [IPR004330] (2)	scaffold_5_mRNA_2723.1	C_unshiu_00686_mRNA_17.1	-	-
GF0022625	1	1	0	Hypothetical protein (1); Protein FAR1-RELATED SEQUENCE 3 (1)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2)	scaffold_5_mRNA_2715.1	C_unshiu_01349_mRNA_2.1	-	-	
GF0022624	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2712.1	C_unshiu_00343_mRNA_2.1	-	-	
GF0022623	1	1	0	Hypothetical protein (2)	-	Nucleic acid binding, OB-fold [IPR012340] (2); Domain of unknown function DUF223 [IPR003871] (1); Replication factor A, C-terminal [IPR013955] (1)	scaffold_5_mRNA_2706.1	C_unshiu_00794_mRNA_10.1	-	-
GF0022621	1	1	0	Replication factor A-carboxy-terminal domain protein (1); Animal RPA1	-	Pwi domain [IPR003165] (1); Ribonuclease H-like domain [IPR012337] (1); Peptidase inhibitor domain [IPR012338] (1); Peptidase inhibitor domain [IPR000070] (2); Pectin lyase fold/vinylene factor [IPR011050] (2); Pectinesterase, Tyr active site [IPR018040] (2)	scaffold_5_mRNA_2704.1	C_unshiu_00011_mRNA_64.1	-	-
GF0022620	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2702.1	C_unshiu_00011_mRNA_62.1	-	-	
GF0022619	1	1	0	Hypothetical protein (2)	-	Reverse transcriptase domain [IPR000477] (2)	scaffold_5_mRNA_2701.1	C_unshiu_00449_mRNA_6.1	-	-
GF0022618	1	1	0	Putative non-LTR retroelement reverse transcriptase (2)	-	Pectinesterase, Asp active site [IPR033131] (2); Pectin lyase fold [IPR012338] (2); Peptidase inhibitor domain [IPR012339] (2); Peptidase inhibitor domain [IPR000070] (2); Pectin lyase fold/vinylene factor [IPR011050] (2); Pectinesterase, Tyr active site [IPR018040] (2)	scaffold_5_mRNA_2692.1	C_unshiu_00011_mRNA_54.1	-	-
GF0022617	1	1	0	Probable pectinesterase/pectinesterase inhibitor 46 (2)	pectinesterase activity [GO:0003059 molecular_function] (2); cell wall modification [GO:0024545 biological_process] (2); enzyme inhibitor function [GO:0004857 molecular_function] (2)	scaffold_5_mRNA_2672.1	C_unshiu_00867_mRNA_1.1	-	-	
GF0022615	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2662.1	C_unshiu_01931_mRNA_1.1	-	-	
GF0022614	1	1	0	Phosphoglycerin phosphatase (2)	-	Transposon, En/Spm-like [IPR004242] (1)	scaffold_5_mRNA_2623.1	C_unshiu_02552_mRNA_1.1	-	-
GF0022613	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2617.1	C_unshiu_02523_mRNA_4.1	-	-	
GF0022612	1	1	0	NBS-LRR type disease resistance protein (2)	-	scaffold_5_mRNA_2606.1	C_unshiu_01443_mRNA_3.1	-	-	
GF0022611	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2605.1	C_unshiu_01443_mRNA_6.1	-	-	
GF0022610	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2593.1	C_unshiu_00343_mRNA_1.1	-	-	
GF0022608	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2591.1	C_unshiu_00449_mRNA_16.1	-	-	
GF0022607	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2581.1	C_unshiu_00449_mRNA_17.1	-	-	
GF0022605	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2578.1	C_unshiu_00374_mRNA_5.1	-	-	
GF0022604	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2575.1	C_unshiu_00374_mRNA_8.1	-	-	
GF0022603	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2565.1	C_unshiu_00374_mRNA_23.1	-	-	
GF0022602	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2560.1	C_unshiu_00592_mRNA_6.1	-	-	
GF0022601	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2556.1	C_unshiu_00374_mRNA_29.1	-	-	
GF0022600	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Zinc finger, CCHC-type [IPR001878] (2)	scaffold_5_mRNA_2555.1	C_unshiu_00374_mRNA_31.1	-	-
GF0022599	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2554.1	C_unshiu_00374_mRNA_32.1	-	-	
GF0022598	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2551.1	C_unshiu_00374_mRNA_35.1	-	-	
GF0022597	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2550.1	C_unshiu_00374_mRNA_36.1	-	-	
GF0022596	1	1	0	NDA-directed DNA polymerase, related (2)	-	scaffold_5_mRNA_2543.1	C_unshiu_00374_mRNA_41.1	-	-	
GF0022595	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2541.1	C_unshiu_00374_mRNA_43.1	-	-	
GF0022594	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2517.1	C_unshiu_00377_mRNA_41.1	-	-	
GF0022593	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2515.1	C_unshiu_00377_mRNA_39.1	-	-	
GF0022592	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2513.1	C_unshiu_00377_mRNA_35.1	-	-	
GF0022591	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2511.1	C_unshiu_00449_mRNA_21.1	-	-	
GF0022590	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2506.1	C_unshiu_00377_mRNA_30.1	-	-	
GF0022589	1	1	0	Hypothetical protein (2)	hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular_function] (2); catalytic activity [GO:0005824 molecular_function] (2); carbohydrate metabolic process [GO:0005975 biological_process] (2)	Glycoside hydrolase family 9 [IPR001701] (2); Six-hairpin glycosidase-like [IPR009928] (2); Six-hairpin glycosidase [IPR012341] (1)	scaffold_5_mRNA_251.1	C_unshiu_00230_mRNA_48.1	-	-
GF0022587	1	1	0	Endoglucanase (2)	-	Refined-hairpin-related protein [IPR016521] (2); Cyclic nucleotide-gated channel [IPR017561] (2); Refined-hairpin-associated protein, A-box [IPR002720] (2); Refined-hairpin protein family [IPR028309] (2)	scaffold_5_mRNA_2491.1	C_unshiu_00377_mRNA_15.1	-	-
GF0022586	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2497.1	C_unshiu_00377_mRNA_22.1	-	-	
GF0022583	1	1	0	Hypothetical protein (2)	nucleus [GO:0005634 cellular_component] (2); regulation of transcription from RNA polymerase II promoter [GO:0006486 biological_process] (2); transcription, DNA-templated [GO:0006351 biological_process] (2); regulation of cell cycle [GO:0005726 biological_process] (2)	Refined-hairpin-related protein [IPR016521] (2); Cyclic nucleotide-gated channel [IPR017561] (2); Refined-hairpin-associated protein, A-box [IPR002720] (2); Refined-hairpin protein family [IPR028309] (2)	scaffold_5_mRNA_2491.1	C_unshiu_00377_mRNA_15.1	-	-
GF0022581	1	1	0	Hypothetical protein (2)	-	Viral movement protein [IPR028919] (1)	scaffold_5_mRNA_2482.1	C_unshiu_00377_mRNA_12.1	-	-
GF0022580	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2480.1	C_unshiu_00377_mRNA_11.1	-	-	
GF0022579	1	1	0	Hypothetical protein (1); BED zinc finger,hAT family dimerization domain (1)	DNA binding [GO:0003677 molecular_function] (2); protein dimerization activity [GO:0046983 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	HAT, C-terminal dimerization domain [IPR008006] (2); Ribonuclease H-like domain [IPR012337] (2); hAT-like domain, RNase-H fold [IPR025252] (2); GH3 family [IPR004993] (1)	scaffold_5_mRNA_2474.1	C_unshiu_00377_mRNA_5.1	-	-
GF0022578	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2472.1	C_unshiu_00377_mRNA_3.1	-	-	
GF0022575	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524 molecular_function] (2); protein phosphorylation [GO:0006468 molecular_function] (2); protein kinase activity [GO:0004672 molecular_function] (2); carbohydrate binding [GO:0030246 molecular_function] (2)	Protein kinase, ATP binding site [IPR017441] (2); Serine/threonine-protein kinase, active site [IPR008271] (2); Protein kinase domain [IPR000719] (2); Concanaavalin A-like lectin/glucanase domain [IPR012201] (2); Protein kinase, Serine/threonine kinase domain [IPR001220] (2); Legume lectin domain [IPR004993] (1)	scaffold_5_mRNA_2433.1	C_unshiu_02744_mRNA_2.1	-	-
GF0022574	1	1	0	Hypothetical protein (2)	-	Plant disease resistance response protein [IPR004265] (2)	scaffold_5_mRNA_2425.1	C_unshiu_02134_mRNA_1.1	-	-
GF0022573	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2418.1	C_unshiu_00327_mRNA_14.1	-	-	
GF0022572	1	1	0	Hypothetical protein (2)	-	scaffold_5_mRNA_2414.1	C_unshiu_00327_mRNA_11.1	-	-	
GF0022571	1	1	0	Hypothetical protein (2)	MULE transposase domain [IPR018289] (2)	scaffold_5_mRNA_2412.1	C_unshiu_00327_mRNA_9.1	-	-	
GF0022570	1	1	0	Hypothetical protein (2)	Retrotransposon gag domain [IPR005162] (2)	scaffold_5_mRNA_2406.1	C_unshiu_00327_mRNA_5.1	-	-	

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0022569	1	1	0 Putative clathrin assembly protein (2)	clathrin-coated vesicle [GO:0030136] cellular component (2); 1-phosphatidylinositol binding [GO:0005545 molecular function] (2); clathrin coat assembly [GO:0048268 biological process] (2); phospholipid binding [GO:0005545 molecular function] (2); clathrin binding [GO:0030276 molecular function] (2)	ENTH domain [IPR011470] (2); Proline-rich-binding domain; clathrin-coated vesicle assembly [IPR014712] (2); API80 N-terminal homolog (ANTH) domain [IPR011417] (2); ENTH/VHIS domain [IPR008942] (2)	scaffold_5_mRNA_2404.1	C_unshiu_00327_mRNA_4.1	-	
GF0022568	1	1	0 Hypothetical protein (2)	-	Chromo domain-like [IPR016197] (1); Chromo domain [IPR023780] (1)	scaffold_5_mRNA_2403.1	C_unshiu_00327_mRNA_3.1	-	
GF0022567	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2398.1	C_unshiu_00327_mRNA_1.1	-	
GF0022566	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2394.1	C_unshiu_00327_mRNA_1.1	-	
GF0022565	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2391.1	C_unshiu_003201_mRNA_4.1	-	
GF0022564	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2390.1	C_unshiu_00957_mRNA_2.1	-	
GF0022563	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2385.1	C_unshiu_00201_mRNA_14.1	-	
GF0022562	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2381.1	C_unshiu_00201_mRNA_14.1	-	
GF0022561	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2377.1	C_unshiu_00912_mRNA_8.1	-	
GF0022560	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2374.1	C_unshiu_00912_mRNA_4.1	-	
GF0022559	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2364.1	C_unshiu_00020_mRNA_73.1	-	
GF0022558	1	1	0 ER11 exonucleasease 2 (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2); Exonuclease, RNase T/DNA polymerase III [IPR013520] (2); RNase P, Rpr2/Rpp21 subunit [IPR007175] (2); Bromo adjacent homology (BAH) domain [IPR001025] (1)	scaffold_5_mRNA_2358.1	C_unshiu_00020_mRNA_78.1	-	
GF0022557	1	1	0 RNase P Rpr2/Rpp21 subunit domain protein (2)	chromatin binding [GO:003682 molecular function] (1)	scaffold_5_mRNA_2351.1	C_unshiu_00020_mRNA_82.1	-		
GF0022556	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2341.1	C_unshiu_00842_mRNA_4.1	-	
GF0022554	1	1	0 Urease accessory protein UreF (2)	nickel cation binding [GO:0016151 molecular function] (2); nitrogen compound metabolic process [GO:0006807 biological process] (2)	Urease accessory protein UreF [IPR002639] (2)	scaffold_5_mRNA_2326.1	C_unshiu_00196_mRNA_32.1	-	
GF0022553	1	1	0 Hypothetical protein (2)	-	MULE transposase domain [IPR018289] (2)	scaffold_5_mRNA_2318.1	C_unshiu_00360_mRNA_20.1	-	
GF0022552	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2317.1	C_unshiu_00360_mRNA_21.1	-	
GF0022551	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2309.1	C_unshiu_00360_mRNA_28.1	-	
GF0022549	1	1	0 Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2); oxidation-reduction process [GO:005114 biological process] (2); oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_5_mRNA_2303.1	C_unshiu_01673_mRNA_4.1	-	
GF0022548	1	1	0 Hypothetical protein (2)	-	Cytochrome P450 [IPR001128] (2); Retrotansposon gag domain [IPR005162] (2)	scaffold_5_mRNA_2288.1	C_unshiu_00359_mRNA_7.1	-	
GF0022547	1	1	0 Cytochrome P450 98A2 (2)	-	Cytochrome P450 [IPR001128] (2); Cytochrome P450, h-class, group I [IPR02401] (2); Cytochrome P450, conserved site [IPR017972] (2)	scaffold_5_mRNA_2287.1	C_unshiu_00359_mRNA_8.1	-	
GF0022546	1	1	0 Hypothetical protein (2)	protein heterodimerization activity [GO:0046982 molecular function] (1)	Transcription factor CBP/N-Y/archaeal histone domain [IPR003581] (2); Histone-fold [IPR009072] (1)	scaffold_5_mRNA_2277.1	C_unshiu_00913_mRNA_6.1	-	
GF0022545	1	1	0 Hypothetical protein (2)	Hypothetical protein (1); Similarity to 0 non-LTR retroelement reverse transcriptase (1)	-	scaffold_5_mRNA_2273.1	C_unshiu_01277_mRNA_2.1	-	
GF0022544	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2271.1	C_unshiu_00258_mRNA_3.1	-	
GF0022542	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2266.1	C_unshiu_01255_mRNA_6.1	-	
GF0022541	1	1	0 Hypothetical protein (2)	ATP binding [GO:0035524 molecular function] (2); metal ion binding [GO:0046872 molecular function] (2); catalytic activity [GO:0003824 molecular function] (2)	Pre-ATP-grasp domain [IPR016185] (2); ATP-grasp fold, subdomain 1 [IPR013815] (2); ATP-grasp fold, ATP-dependent carboxyle-amino ligase-type [IPR011761] (2); ATP-grasp fold, ATP-dependent carboxyle-amino ligase-type [IPR003135] (2)	scaffold_5_mRNA_2265.1	C_unshiu_01255_mRNA_8.1	-	
GF0022540	1	1	0 Hypothetical protein (2)	galactoside 2-alpha-L-fucosyltransferase activity [GO:0008107 molecular function] (2); cell wall biogenesis [GO:0042546 biological process] (2); membrane [GO:0016020 cellular component] (2); nucleic acid binding [GO:0003676 molecular function] (1)	Xyloglucan fucosyltransferase [IPR004938] (2)	scaffold_5_mRNA_2258.1	C_unshiu_00581_mRNA_18.1	-	
GF0022539	1	1	0 Hypothetical protein (2)	galactoside 2-alpha-L-fucosyltransferase activity [GO:0008107 molecular function] (2); membrane [GO:0016020 cellular component] (2); cell wall biogenesis [GO:0042546 biological process] (2)	Xyloglucan fucosyltransferase [IPR004938] (2); Xyloglucan fucosyltransferase [IPR012337] (1)	scaffold_5_mRNA_2257.1	C_unshiu_00581_mRNA_17.1	-	
GF0022536	1	1	0 Hypothetical protein (2)	COP9 signalosome complex subunit 8	Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_5_mRNA_2206.1	C_unshiu_00031_mRNA_25.1	-	
GF0022535	1	1	0 Hypothetical protein (1)	(1); Hypothetical protein (1)	-	scaffold_5_mRNA_2204.1	C_unshiu_00031_mRNA_23.1	-	
GF0022534	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2203.1	C_unshiu_00031_mRNA_22.1	-	
GF0022532	1	1	0 Hypothetical protein (2)	-	Transposase, MuDR, plant [IPR004332] (2); Domain of unknown function DUF1983 [IPR015410] (2)	scaffold_5_mRNA_22.1	C_unshiu_00230_mRNA_45.1	-	
GF0022529	1	1	0 Hypothetical protein (2)	-	Retrotansposon gag domain [IPR005162] (2)	scaffold_5_mRNA_2174.1	C_unshiu_00243_mRNA_38.1	-	
GF0022528	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2169.1	C_unshiu_01087_mRNA_4.1	-	
GF0022527	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2155.1	C_unshiu_00517_mRNA_7.1	-	
GF0022523	1	1	0 Hypothetical protein (2)	integral component of membrane [GO:0016021 cellular component] (2); transmembrane transporter activity [GO:0023857 molecular function] (2)	WAT1-related protein [IPR030184] (2)	scaffold_5_mRNA_2139.1	C_unshiu_00100_mRNA_22.1	-	
GF0022522	1	1	0 Hypothetical protein (2)	-	scaffold_5_mRNA_2138.1	C_unshiu_00100_mRNA_21.1	-		
GF0022521	1	1	0 Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2); zinc ion binding [GO:0016020 cellular component] (2); Zinc finger, CCHC-type [IPR001878] (2)	Zinc finger, CCHC-type [IPR001878] (2)	scaffold_5_mRNA_2137.1	C_unshiu_00100_mRNA_19.1	-	
GF0022520	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2133.1	C_unshiu_00174_mRNA_57.1	-	
GF0022519	1	1	0 Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular function] (2); nucleic acid binding [GO:0003676 molecular function] (2)	Zinc finger, CCHC-type [IPR001878] (2)	scaffold_5_mRNA_2130.1	C_unshiu_00350_mRNA_14.1	-	
GF0022518	1	1	0 Nodulin M21/Eam-A-like transporter family protein (2)	membrane [GO:0016020 cellular component] (2); integral component of membrane [GO:0016021 cellular component] (2)	WAT1-related protein [IPR030184] (2); Eam domain [IPR00620] (2)	scaffold_5_mRNA_2123.2	C_unshiu_00264_mRNA_4.1	-	
GF0022517	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2120.1	C_unshiu_01932_mRNA_1.1	-	
GF0022516	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2099.1	C_unshiu_00226_mRNA_18.1	-	
GF0022515	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2091.1	C_unshiu_00226_mRNA_20.1	-	
GF0022514	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2089.1	C_unshiu_00074_mRNA_64.1	-	
GF0022513	1	1	0 Hypothetical protein (2)	aspartic-type endopeptidase activity [GO:0004190 molecular function] (1); proteolysis [GO:000508 biological process] (1)	Peptidase A2A, retrovirus, catalytic [IPR001995] (1)	scaffold_5_mRNA_2087.1	C_unshiu_00226_mRNA_23.1	-	
GF0022512	1	1	0 Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2); zinc ion binding [GO:0008270 molecular function] (2); aspartic-type endopeptidase activity [GO:0004190 molecular function] (2)	Peptidase A2A, retrovirus, catalytic [IPR001995] (2); Zinc finger, CCHC-type [IPR001878] (2); Reverse transcriptase domain [IPR000477] (1); Aspartic peptidase domain [IPR021109] (1)	scaffold_5_mRNA_2078.1	C_unshiu_00226_mRNA_30.1	-	
GF0022511	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2076.1	C_unshiu_00226_mRNA_32.1	-	
GF0022510	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2072.1	C_unshiu_00226_mRNA_37.1	-	
GF0022509	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2062.1	C_unshiu_00531_mRNA_1.1	-	
GF0022508	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2060.1	C_unshiu_00531_mRNA_5.1	-	
GF0022507	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2059.1	C_unshiu_00531_mRNA_6.1	-	
GF0022506	1	1	0 Hypothetical protein (2)	-	Reverse transcriptase domain [IPR000477] (2); DNA methylase, C-5 cytosine-specific, active site [IPR018117] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR020631] (2); C-5 cytosine methyltransferase [IPR005325] (2); Bromo adjacent homology (BAH) domain [IPR001025] (2)	scaffold_5_mRNA_2045.1	C_unshiu_01903_mRNA_2.1	-	
GF0022504	1	1	0 Hypothetical protein (2)	chromatin binding [GO:0003682 molecular function] (2); methylester transferase activity [GO:0008168 molecular function] (2)	Aspartic peptidase domain [IPR021109] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR020631] (2); C-5 cytosine methyltransferase [IPR005325] (2); Bromo adjacent homology (BAH) domain [IPR001025] (2)	scaffold_5_mRNA_2041	C_unshiu_01769_mRNA_5.1	-	
GF0022503	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2029.1	C_unshiu_00028_mRNA_41.1	-	
GF0022502	1	1	0 Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (1)	Ribonuclease H-like domain [IPR012337] (1)	scaffold_5_mRNA_2027.1	C_unshiu_00028_mRNA_38.1	-	
GF0022501	1	1	0 Hypothetical protein (2)	-	-	scaffold_5_mRNA_2023.1	C_unshiu_00668_mRNA_8.1	-	
GF0022500	1	1	0 Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Domain of unknown function DUF423 [IPR025558] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_5_mRNA_2021	C_unshiu_01769_mRNA_3.1	-	

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>	
GF0022499	1	1	0	Narbonin (1); Chitinase 2 (1)	carbohydrate metabolic process [GO:0005975 biological_process] (2); hydrolyase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular_function] (1)	2S globulin [IPR006577] (2); Glycoside hydrolase superfamily [IPR017653] (2); Glycoside hydrolase family 18, catalytic domain [IPR001223] (1); Glycoside hydrolase, catalytic domain [IPR013781] (1); Glycoside hydrolase, chitinase active site [IPR001379] (1)	scaffold_5_mRNA_2016.1	C_unshiu_00524_mRNA_13.1	-	
GF0022498	1	1	0	LRR and NB-ARC domain disease resistance protein (2)	ADP binding [GO:0043531 molecular_function] (2)	Leucine-rich repeat domain, L domain-like [IPR032675] (2); NB-ARC [IPR001821] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_5_mRNA_201.1	C_unshiu_01769_mRNA_2.1	-	
GF0022497	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022496	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022495	1	1	0	Hydroxylaminol transferase, Ribonuclease H fold (2)	Polymerase I nucleic acid binding [GO:0003676 molecular_function] (2)	Reverse transcriptase zinc-binding domain [IPR026960] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_5_mRNA_1995.1	C_unshiu_00605_mRNA_11.1	-	
GF0022494	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022493	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022491	1	1	0	Hypothetical protein (2)	aspartic-type endopeptidase activity [GO:0004190 molecular_function] (2); proteolysis [GO:000508 biological_process] (2)	Aspartic peptidase domain [IPR021109] (2); Retrotransposon gag domain [IPR005162] (2); Aspartic peptidase, active site [IPR001669] (2)	scaffold_5_mRNA_198.1	C_unshiu_00060_mRNA_33.1	-	
GF0022490	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022489	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022488	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508 biological_process] (1); cysteine-type peptidase activity [GO:0008234 molecular_function] (1)	Transposon, En.Spm-like [IPR004242] (2); Domain of unknown function DUF4218 [IPR025452] (2); Probable transposase, Pta/Spm, plant [IPR004522] (2); Ulp1 protease family, C-terminal catalytic domain [IPR003653] (1); Transposase-associated domain [IPR029480] (1)	scaffold_5_mRNA_1962.1	C_unshiu_00698_mRNA_12.1	-	
GF0022487	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022486	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022484	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022483	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022482	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022481	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022479	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022478	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022477	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022476	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1); zinc ion binding [GO:0008270 molecular_function] (1)	Zinc finger, CCHC-type [IPR001878] (1); scaffold_5_mRNA_1907.1	C_unshiu_00880_mRNA_8.1	-	-	
GF0022475	1	1	0	Kunitz trypsin inhibitor (2)	endopeptidase inhibitor activity [GO:004866 molecular_function] (2)	Proteinase inhibitor 13, Kunitz legume [IPR002160] (2); Kunitz inhibitor ST1-like [IPR011165] (2)	scaffold_5_mRNA_1906.1	C_unshiu_00880_mRNA_7.1	-	
GF0022474	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022473	1	1	0	Putative COX1/OX13 intron 2 protein (2)	mRNA processing [GO:0006397 biological_process] (2)	Transposon-associated domain [IPR029480] (2); Transposon, En.Spm-like [IPR004424] (2)	scaffold_5_mRNA_1904.1	C_unshiu_00880_mRNA_4.1	-	
GF0022472	1	1	0	Disease resistance protein (2)	ADP binding [GO:0043531 molecular_function] (2)	Domain X [IPR024937] (2); scaffold_5_mRNA_1900.1	C_unshiu_00819_mRNA_6.1	-	-	
GF0022471	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0008655 biological_process] (2); DNA binding [GO:0005677 molecular_function] (2)	Loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC [IPR001822] (2); Leucine-rich repeat domain, typical subtype [IPR000591] (2); Leucine-rich repeat [IPR001611] (2)	NAC domain [IPR003441] (2)	scaffold_5_mRNA_1863.1	C_unshiu_00083_mRNA_1.1	-
GF0022468	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022467	1	1	0	LRR receptor-like kinase (2)	protein binding [GO:0005515 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_5_mRNA_1851.1	C_unshiu_00798_mRNA_5.1	-	
GF0022466	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022463	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022461	1	1	0	Tel1 DNA (1)	-	-	-	-	-	
GF0022460	1	1	0	Calcium-transporting ATPase 8; plasma membrane-type protein (1); Plasma membrane-type calcium ATPase (1)	integral component of membrane [GO:0016021 cellular_component] (2)	Revers transcriptase, RNA-dependent DNA polymerase [IPR013103] (2); HAD-domain [IPR023214] (2); P-type ATPase [IPR027417] (2); Cation-transporting P-type ATPase, C-terminal membrane domain [IPR006681] (2); P-type ATPase [IPR02023298] (2)	scaffold_5_mRNA_1835.1	C_unshiu_00654_mRNA_8.1	-	
GF0022459	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular_function] (2)	Zinc finger, PMZ-type [IPR006564] (2); Zinc finger, SWIM-type [IPR007527] (2)	scaffold_5_mRNA_1821.1	C_unshiu_00588_mRNA_8.1	-	
GF0022457	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022455	1	1	0	Glycosidase family 35 protein isoform 2 (1); Hypothetical protein (1)	hydrolytic activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular_function] (2); carbohydrate metabolic process [GO:0005975 biological_process] (2); ATP binding [GO:0005524 molecular_function] (1)	Glycoside hydrolase 35, catalytic domain [IPR031130] (2); Galactose-binding domain [IPR008970] (2); Glycoside hydrolase superfamily [IPR017853] (2); Glycoside hydrolase, family 35 [IPR000444] (2); Glycoside hydrolase, family 35, subfamily 35.1 [IPR001990] (2)	scaffold_5_mRNA_1768.1	C_unshiu_00293_mRNA_12.1	-	
GF0022453	1	1	0	Nucleic acid binding / zinc ion binding protein (2)	-	-	-	-	-	
GF0022452	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022451	1	1	0	Hypothetical protein (2)	calmodulin binding [GO:0005516 molecular_function] (2)	[IPR024750] (2)	scaffold_5_mRNA_1754.1	C_unshiu_00033_mRNA_70.1	-	
GF0022449	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022448	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022447	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022446	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022445	1	1	0	Kinase interacting family protein, putative isoform 1 (1); Hypothetical protein (1)	actin binding [GO:0003779 molecular_function] (2)	Protein Networked (NET), actin-binding (NAB) domain [IPR011684] (2)	scaffold_5_mRNA_1724.1	C_unshiu_00492_mRNA_8.1	-	
GF0022444	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022443	1	1	0	Chaperone protein dnaJ (1)	-	-	-	-	-	
GF0022442	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022440	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022439	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022437	1	1	0	26S protease regulatory subunit 6B (1); 26S protease regulatory subunit 6B-like protein (1)	ATP binding [GO:0003554 molecular_function] (2); cytoplasmic protein [IPR005737 cellular_component] (1); protein catabolic process [GO:0030163 biological_process] (1); hydrolase activity [GO:0016787 molecular_function] (1)	(2';P)-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); ATPase, AAA-type, conserved site [IPR003960] (2); CDC48 domain 2-like [IPR029667] (1); AAA+-ATPase domain [IPR003454] (1); 26S proteasome subunit P45 [IPR000937] (1)	scaffold_5_mRNA_1705.1	C_unshiu_01766_mRNA_5.1	-	
GF0022436	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022435	1	1	0	0 LRR receptor-like kinase (2)	protein binding [GO:0005515 molecular_function] (2); protein kinase activity [GO:0004553 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2); ATP binding [GO:0005524 molecular_function] (2)	Protein kinase domain [IPR000719] (2); Leucine-rich repeat, typical subtype [IPR003591] (2); Protein kinase-like domain [IPR000444] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Serine/threonine-protein kinase, active site [IPR008271] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); Leucine-rich repeat domain [IPR011611] (2); Serine/threonine kinase, A-like [IPR013201] (1); Protein kinase, ATP binding site [IPR017441] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_5_mRNA_1701.1	C_unshiu_00097_mRNA_7.1	-	
GF0022434	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022433	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022432	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022431	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022430	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022429	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022428	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022427	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022426	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022425	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022424	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022423	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022422	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022421	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022420	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022419	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022418	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022417	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022416	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022415	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022414	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022413	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022412	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022411	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022410	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022409	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022408	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022407	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022406	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022405	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022404	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022403	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022402	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022401	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022400	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022399	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022398	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022397	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022396	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022395	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022394	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022393	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022392	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022391	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022390	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022389	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022388	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022387	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022386	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022385	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022384	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022383	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022382	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022381	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022380	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022379	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022378	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022377	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022376	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022375	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022374	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022373	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022372	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022371	1	1	0	Hypothetical protein (2)	-	-	-	-	-	
GF0022370	1	1	0	Hyp						

ID	Num. in <i>C. clementine</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Name	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>	
GF0022433	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_1677.1	C_unshiu_00211_mRNA_20.1	-	
GF0022432	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_1676.1	C_unshiu_00211_mRNA_19.1	-	
GF0022431	1	1	0	Hypothetical protein (2)		[PR025314] (1)	scaffold_5_mRNA_1672.1	C_unshiu_00381_mRNA_1.1	-	
GF0022429	1	1	0	Hypothetical protein (2)	Domain of unknown function DUF4219		scaffold_5_mRNA_1666.1	C_unshiu_00588_mRNA_3.1	-	
GF0022426	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_1658.1	C_unshiu_00572_mRNA_3.1	-	
GF0022425	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_1644.1	C_unshiu_001752_mRNA_4.1	-	
GF0022424	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_1647.1	C_unshiu_00145_mRNA_4.1	-	
GF0022423	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_1633.1	C_unshiu_01669_mRNA_3.1	-	
GF0022422	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_1632.1	C_unshiu_00830_mRNA_18.1	-	
GF0022421	1	1	0	Auxin response factor (2)	regulation of transcription, DNA-templated [GO:0006355]	Protein kinase-like domain [IPR011009]	scaffold_5_mRNA_163.1	C_unshiu_00033_mRNA_56.1	-	
GF0022420	1	1	0	Hypothetical protein (2)	[GO:0006355]	(2); DNA-binding pseudorel domain [PR015300] (2); Auxin response factor [IPR010525] (2); Protein kinase domain [IPR00019] (2); cellular component [GO:0006363]; response to hormone [GO:0009725]				
GF0022419	1	1	0	Hypothetical protein (2)	biological process] (2); ATP binding [GO:0005524 molecular function] (2); protein phosphorylation [GO:0006468]	(2); protein phosphorylation [GO:0005524 molecular function] (2); response to hormone [GO:0009725]				
GF0022418	1	1	0	Hypothetical protein (2)	biological process] (2); ATP binding [GO:0005524 molecular function] (2); protein phosphorylation [GO:0006468]		scaffold_5_mRNA_1602.1	C_unshiu_00346_mRNA_37.1	-	
GF0022417	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]	Zinc finger, CCHC-type [IPR001878]	scaffold_5_mRNA_1601.1	C_unshiu_00346_mRNA_36.1	-	
GF0022416	1	1	0	Hypothetical protein (2)	molecular function] (2); zinc ion binding [GO:0008270 molecular function] (2)	(2); Aspartic peptidase domain [PR021109] (2); Retropins [IPR018061] (2)				
GF0022415	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_1610.1	C_unshiu_00576_mRNA_24.1	-	
GF0022414	1	1	0	Hypothetical protein (2)						
GF0022413	1	1	0	Hypothetical protein (2)						
GF0022412	1	1	0	Hypothetical protein (2)						
GF0022411	1	1	0	Hypothetical protein (2)						
GF0022410	1	1	0	Hypothetical protein (2)						
GF0022409	1	1	0	Hypothetical protein (2)						
GF0022408	1	1	0	Hypothetical protein (2)						
GF0022407	1	1	0	Hypothetical protein (2)						
GF0022406	1	1	0	Hypothetical protein (2)						
GF0022405	1	1	0	Zinc finger C-X8-C-X5-C-X3-H type family protein isoform 3 (2)	mRNA splicing, via spliceosome [GO:0000398 biological process] (2); RNA binding [GO:0003723]	U2 auxiliary factor small subunit [PR009145] (2); RNA recognition motif domain eukaryote [IPR003954] (2); RNA recognition motif domain [IPR000504] (2); Zinc finger, CCHC-type [IPR000571] (2); Nucleotide-binding alpha-beta plain domain [IPR012077] (1)	scaffold_5_mRNA_157.1	C_unshiu_00033_mRNA_53.1	-	
GF0022404	1	1	0	Hypothetical protein (2)						
GF0022403	1	1	0	Hypothetical protein (2)						
GF0022402	1	1	0	Hypothetical protein (2)						
GF0022401	1	1	0	Retrotransposon protein, putative, Ty3-gagy subclass (1)	nucleic acid binding [GO:0003676]	Chromosomal domain [IPR023780] (2); Chromo-domain-like [IPR016197] (2); Chromo/chromo shadow domain [IPR000953] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_5_mRNA_1540.1	C_unshiu_00317_mRNA_5.1	-	
GF0022400	1	1	0	Hypothetical protein (2)						
GF0022399	1	1	0	Hypothetical protein (2)						
GF0022398	1	1	0	Hypothetical protein (2)						
GF0022397	1	1	0	Hypothetical protein (2)						
GF0022396	1	1	0	Ac-like transposase THELMA13 (1); Hypothetical protein (1)	nucleic acid binding [GO:0003676]	LOG family [IPR031100] (2); Ribonuclease H-like domain [IPR012337] (2); Zinc finger, BED-type [IPR03456] (2); Zinc finger C2H2-type [IPR013087] (1)	scaffold_5_mRNA_1510.1	C_unshiu_01355_mRNA_2.1	-	
GF0022394	1	1	0	Hypothetical protein (2)						
GF0022392	1	1	0	Hypothetical protein (2)						
GF0022391	1	1	0	Hypothetical protein (2)						
GF0022390	1	1	0	Hypothetical protein (2)						
GF0022389	1	1	0	DUF641 family protein (2)						
GF0022387	1	1	0	LRR receptor-like kinase family protein (2)	ATP binding [GO:0005524 molecular function] (2); protein kinase activity [GO:0004672]	Domain of unknown function DUF441; plant [IPR016943] (2)	scaffold_5_mRNA_1473.1	C_unshiu_00263_mRNA_16.1	-	
GF0022385	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]	Protein kinase-like domain [IPR000719] (2); Protein kinase-like domain [IPR011009]	scaffold_5_mRNA_145.1	C_unshiu_00033_mRNA_46.1	-	
GF0022384	1	1	0	Hypothetical protein (2)	molecular function] (1); zinc ion binding [GO:0008270 molecular function] (1)	(2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat, tyrosyl sulphate [IPR003591] (2); Zinc finger, CCHC-type [IPR001878] (2); active site [IPR008271] (2); Protein kinase, ATP-binding site [IPR017441] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); Leucine-rich repeat, terminal [IPR016111] (2); Serine/threonine/tyrosine kinase, phosphatase domain [IPR013201] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_5_mRNA_1439.1	C_unshiu_01184_mRNA_5.1	-	
GF0022382	1	1	0	Hypothetical protein (2)						
GF0022381	1	1	0	Hypothetical protein (1); Putative mDMDR family transposase-like (1)	zinc ion binding [GO:0008270 molecular function] (2)	Zinc finger, PMZ-type [IPR006564] (2); Zinc finger, SWIM-type [IPR007527] (2); MULE transposase domain [IPR018289] (1)	scaffold_5_mRNA_1435.1	C_unshiu_00418_mRNA_2.1	-	
GF0022380	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0008255 biological process] (2)	FHY3/FAR1 family [IPR031052] (2)	scaffold_5_mRNA_1421.1	C_unshiu_00762_mRNA_15.1	-	
GF0022379	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]	Zinc finger, CCHC-type [IPR0001878] (2) scaffold_5_mRNA_1420.1	C_unshiu_00762_mRNA_14.1	-		
GF0022378	1	1	0	Hypothetical protein (2)	molecular function] (2); zinc ion binding [GO:0008270 molecular function] (2)	scaffold_5_mRNA_1418.1	C_unshiu_02568_mRNA_1.1	-		
GF0022377	1	1	0	Hypothetical protein (2)						
GF0022376	1	1	0	Protein FARI-RELATED SEQUENCE 3 (2)	zinc ion binding [GO:0008270 molecular function] (2); regulation of transcription, DNA-templated [GO:0006355 biological process] (2)	FYDPI-related protein domain [IPR016761] (2); C-terminal-like domain [IPR025659] (2); Transposase-MuDR plant [IPR004332] (2); MULE transposase domain [IPR01289] (1)	scaffold_5_mRNA_1410.1	C_unshiu_01316_mRNA_6.1	-	
GF0022374	1	1	0	Hypothetical protein (2)						
GF0022373	1	1	0	Hypothetical protein (2)						
GF0022372	1	1	0	Hypothetical protein (2)						
GF0022371	1	1	0	Hypothetical protein (2)						
GF0022370	1	1	0	Hypothetical protein (2)						
GF0022369	1	1	0	Hypothetical protein (2)						
GF0022368	1	1	0	Hypothetical protein (2)						
GF0022366	1	1	0	Hypothetical protein (2)						
GF0022365	1	1	0	0	LRR and NB-ARC domain disease resistance protein (2)	ADP binding [GO:0043531 molecular function] (2)	Leucine-rich repeat domain, L-domain-like [IPR0132675] (2); NB-ARC-containing nucleoside triphosphate hydrolase [IPR002182] (2); Proline-rich domain [IPR027417] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_5_mRNA_1361.1	C_unshiu_00031_mRNA_43.1	-
GF0022364	1	1	0	0	Egg cell-secreted protein 1.4 (2)					
GF0022363	1	1	0	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological process] (1)	Polmann-like domain [IPR008052] (2); Plastid lipid-associated protein/fibrillin-coiled-coil domain [IPR006843] (1); tRNA-binding domain [IPR004301] (1); FHY3/FAR1 family [IPR013052] (1)	scaffold_5_mRNA_1358.1	C_unshiu_00031_mRNA_46.1	-
GF0022362	1	1	0	0	Putative U3 small nuclear RNA-associated protein (?)	protein binding [GO:0005515 molecular function] (2)	WD40 repeat [IPR01680] (2); WD40-repeat-containing domain [IPR017986] (2); WD40/VTN repeat-like-containing domain [IPR015943] (2); BING4, C-terminal-like domain [IPR013952] (2)	scaffold_5_mRNA_1350.1	C_unshiu_00031_mRNA_52.1	-
GF0022361	1	1	0	0	Hypothetical protein (2)	ADP binding [GO:0043531 molecular function] (2)	OB-ARC [IPR009216] (2); P4-loop-containing nucleoside triphosphate hydrolase [IPR027417] (2)	scaffold_5_mRNA_1344.1	C_unshiu_00031_mRNA_61.1	-
GF0022360	1	1	0	0	Acylsugar acyltransferase 3 (2)	transferase activity, transferring acyl groups other than aminoacyl groups [GO:0016747 molecular function] (2)	Transferase [IPR003480] (2); Chlorophenicol acetyltransferase-like domain [IPR023213] (1)	scaffold_5_mRNA_1343.1	C_unshiu_00031_mRNA_62.1	-

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0022359	1	1	0	Hypothetical protein (2)	catalytic activity [GO:0003824]; molecular_function [2]; metabolic process [GO:000152; biological_process] [2]; triose-phosphate isomerase activity [GO:0004807]; molecular_function [2]	Triosephosphate isomerase [IPR000652]; (2); Aldolase-type TIM barrel [IPR013785] (2)	scaffold_5_mRNA_1342.1	C_unshiu_00031_mRNA_63.1	-
GF0022358	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1341.1	C_unshiu_00031_mRNA_64.1	-
GF0022357	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1338.1	C_unshiu_00031_mRNA_65.1	-
GF0022356	1	1	0	Putative U3 small nuclear RNA-associated protein ? (2)	protein binding [GO:0005515]; molecular_function [2]; transferase activity; transferring groups other than amino-acyl groups [GO:0016747]; molecular_function [1]	WD40-repeat-containing domain [IPR017986] (2); WD40 repeat [IPR01680] (2); WD40 YVTN repeat [IPR01943] (2); BING4, C-terminal domain [IPR012952] (2); Transferase [IPR0003489] (1)	scaffold_5_mRNA_1337.1	C_unshiu_00031_mRNA_66.1	-
GF0022355	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1334.1	C_unshiu_00031_mRNA_70.1	-
GF0022354	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]; molecular_function [1]	Ribonuclease H-like domain [IPR012337] (1)	scaffold_5_mRNA_1333.1	C_unshiu_00031_mRNA_71.1	-
GF0022353	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1331.1	C_unshiu_00031_mRNA_72.1	-
GF0022352	1	1	0	SLG-Sc and SLA-Se genes and Melmoth retrotransposon sequence (1); Hypothetical protein (1)	DNA_fingerprint [GO:0013074]; biological_process [2]; nucleic acid binding [GO:0003676]; molecular_function [2]	Integrase, catalytic core [IPR001584] (2); Integrase, proteic peptidase domain [IPR021109] (1)	-	-	-
GF0022351	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1331.1	C_unshiu_01127_mRNA_1.1	-
GF0022350	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1326.1	C_unshiu_00899_mRNA_8.1	-
GF0022349	1	1	0	Hypothetical protein (2)	protein ubiquitination [GO:0016567]; biological_process [2]; ubiquitin-protein transferase activity [GO:0004842]; molecular_function [2]	E3 ubiquitin ligase RBR family [IPR031127] (2)	scaffold_5_mRNA_1321.1	C_unshiu_00033_mRNA_34.1	-
GF0022348	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1316.1	C_unshiu_00797_mRNA_6.1	-
GF0022347	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1314.1	C_unshiu_00797_mRNA_8.1	-
GF0022346	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_131.1	C_unshiu_00230_mRNA_34.1	-
GF0022345	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1294.1	C_unshiu_008900_mRNA_11.1	-
GF0022344	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1289.1	C_unshiu_00868_mRNA_1.1	-
GF0022343	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1287.1	C_unshiu_01520_mRNA_7.1	-
GF0022342	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677]; molecular_function [2]; nucleic acid binding [GO:0003676]; molecular_function [1]	Zinc finger, BED-type [IPR0003656] (2); Zinc finger C2H2-type [IPR013087] (1)	scaffold_5_mRNA_1277.1	C_unshiu_00899_mRNA_13.1	-
GF0022339	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1264.1	C_unshiu_00340_mRNA_10.1	-
GF0022338	1	1	0	BRASSINOSTEROID INSENSITIVE 1-associated receptor kinase 1 (2)	Endonuclease/exonuclease/phosphatase [IPR00135] (1); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat domain, N-terminal, plant-type [IPR013210] (2)	scaffold_5_mRNA_1249.1	C_unshiu_01099_mRNA_10.1	-	
GF0022337	1	1	0	Theobromine synthase (2)	methyltransferase activity [GO:0008168]; molecular_function [2]	SAM-dependent carboxyl methyltransferase [IPR005299] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (2)	scaffold_5_mRNA_1247.1	C_unshiu_01099_mRNA_8.1	-
GF0022336	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1241.1	C_unshiu_02114_mRNA_6.1	-
GF0022335	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1240.1	C_unshiu_02114_mRNA_5.1	-
GF0022334	1	1	0	Putative disease resistance protein RGA3 ADP binding [GO:0043531] (2)	P-loop containing nucleoside triphosphatase hydrolyase [IPR027417] (2); NB-ARC [IPR002182] (2); Winged-helix-turn-helix DNA-binding domain [IPR011991] (1); Leucine-rich repeat domain, L-domain-like [IPR012337] (1); Domain of unknown function DUF4371 [IPR025598] (2)	scaffold_5_mRNA_1231.1	C_unshiu_00803_mRNA_2.1	-	
GF0022332	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1222.1	C_unshiu_00097_mRNA_9.1	-
GF0022331	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]; molecular_function [2]	Ribonuclease H-like domain [IPR012337] (2)	scaffold_5_mRNA_1219.1	C_unshiu_00468_mRNA_2.1	-
GF0022330	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1216.1	C_unshiu_02642_mRNA_1.1	-
GF0022329	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1206.1	C_unshiu_01426_mRNA_5.1	-
GF0022327	1	1	0	Hypothetical protein (2)	ADP binding [GO:0043531]; molecular_function [2]	NB-ARC [IPR002182] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2)	scaffold_5_mRNA_1180.1	C_unshiu_01092_mRNA_7.1	-
GF0022326	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1169.1	C_unshiu_03105_mRNA_1.1	-
GF0022324	1	1	0	NB-ARC domain disease resistance protein (1); NB-ARC domain-containing disease resistance protein (1)	ADP binding [GO:0043531]; molecular_function [2]	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC [IPR002182] (2); Protein RETICULATA-related [IPR021825] (1)	scaffold_5_mRNA_1161.1	C_unshiu_00803_mRNA_3.1	-
GF0022323	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1156.1	C_unshiu_00151_mRNA_4.1	-
GF0022322	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1154.1	C_unshiu_01250_mRNA_1.1	-
GF0022320	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1154.1	C_unshiu_00699_mRNA_15.1	-
GF0022319	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1101.1	C_unshiu_00825_mRNA_7.1	-
GF0022318	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1100.1	C_unshiu_00825_mRNA_6.1	-
GF0022317	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270]; molecular_function [1]; nucleic acid binding [GO:0003676]; molecular_function [1]	Zinc finger, CCHC-type [IPR001878] (1)	scaffold_5_mRNA_110.1	C_unshiu_00103_mRNA_14.1	-
GF0022316	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_11.1	C_unshiu_00230_mRNA_33.1	-
GF0022315	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1097.1	C_unshiu_00564_mRNA_24.1	-
GF0022314	1	1	0	Mycene synthase (1); Hypothetical protein (1)	magnesium ion binding [GO:0000287]; molecular_function [1]; terpene synthase activity [GO:0010333]; molecular_function [2]; lyase activity [GO:001629]; molecular_function [2]	Isoprenoid synthase domain [IPR008949] (2); Terpene synthase, metal-binding domain [IPR005630] (2)	scaffold_5_mRNA_1095.1	C_unshiu_00564_mRNA_21.1	-
GF0022313	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1094.1	C_unshiu_00564_mRNA_20.1	-
GF0022312	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1092.1	C_unshiu_00564_mRNA_18.1	-
GF0022311	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1090.1	C_unshiu_00564_mRNA_16.1	-
GF0022310	1	1	0	Putative retroflection polypeptide (2)	Gag-polypeptide of LTR copia-type [IPR029472] (2)	scaffold_5_mRNA_1088.1	C_unshiu_00564_mRNA_14.1	-	
GF0022309	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1087.1	C_unshiu_00564_mRNA_13.1	-
GF0022308	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1085.1	C_unshiu_00564_mRNA_12.1	-
GF0022307	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1080.1	C_unshiu_00204_mRNA_19.1	-
GF0022305	1	1	0	Putative Tam1 transposon protein TNP2 (2)	terpene synthase, N-terminal domain [IPR001906] (2); Terpene synthase, metal-binding domain [IPR005630] (2); Terpenoid cyclases/protein terpene synthase [IPR008930] (2); Isoprenoid synthase domain [IPR008949] (2)	Terpene synthase, N-terminal domain [IPR001906] (2); Terpene synthase, metal-binding domain [IPR005630] (2); Terpenoid cyclases/protein terpene synthase [IPR008930] (2); Isoprenoid synthase domain [IPR008949] (2)	scaffold_5_mRNA_1079.1	C_unshiu_00204_mRNA_18.1	-
GF0022306	1	1	0	Limonene synthase (2)	-	-	-	-	-
GF0022304	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1070.1	C_unshiu_00753_mRNA_10.1	-
GF0022303	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_107.1	C_unshiu_00284_mRNA_6.1	-
GF0022302	1	1	0	F-box/LRR-repeat protein At3g26922 (2)	protein binding [GO:0005515]; molecular_function [2]	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); F-box domain [IPR001810] (2)	scaffold_5_mRNA_1062.1	C_unshiu_01132_mRNA_11.1	-
GF0022301	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1058.1	C_unshiu_01624_mRNA_6.1	-
GF0022300	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1057.1	C_unshiu_01624_mRNA_5.1	-
GF0022299	1	1	0	Hypothetical protein (1); Caffeic acid 3-O-methyltransferase (1)	O-methyltransferase activity [GO:0008168]; molecular_function [2]; O-methyltransferase activity [GO:0001333]; molecular_function [2]; O-methyltransferase activity [GO:0008171]; molecular_function [2]; O-methyltransferase activity [GO:0008168]; molecular_function [1]	S-adenosyl-L-methionine-dependent methylesterase [IPR029063] (2); Domain of unknown function DUF4371 [IPR025398] (2); O-methyltransferase COMT-type [IPR016461] (2); O-methyltransferase, family 2 [IPR001077]	scaffold_5_mRNA_1052.1	C_unshiu_01148_mRNA_5.1	-
GF0022298	1	1	0	Hypothetical protein (2)	O-methyltransferase activity [GO:0008168]; molecular_function [2]; O-methyltransferase activity [GO:0001333]; molecular_function [2]; O-methyltransferase activity [GO:0008171]; molecular_function [2]; O-methyltransferase activity [GO:0008168]; molecular_function [1]	S-adenosyl-L-methionine-dependent methylesterase [IPR029063] (2); Domain of unknown function DUF4371 [IPR025398] (2); O-methyltransferase COMT-type [IPR016461] (2); O-methyltransferase, family 2 [IPR001077]	scaffold_5_mRNA_1050.1	C_unshiu_01148_mRNA_7.1	-
GF0022297	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1048.1	C_unshiu_00989_mRNA_10.1	-
GF0022296	1	1	0	Putative oxidoreductase GLYR1 (2)	phenol:polymer dehydrogenase (decolorizing) activity [GO:0004616]; molecular_function [2]; oxidoreductase reduction process [GO:0055114]; biological_process [2]; oxidoreductase activity [GO:0016491]; molecular_function [2]; NAD binding [GO:0051287]; molecular_function [2]	6-phosphogluconate dehydrogenase, domain 2 [IPR013324] (2); 6-phosphogluconate dehydrogenase C-terminal domain-like [IPR008927] (2); 3-hydroxyisobutyrate dehydrogenase, NAD-binding domain [IPR029154] (2); 6-phosphogluconate dehydrogenase, NAD(P)-binding domain [IPR016404] (2)	scaffold_5_mRNA_1047.1	C_unshiu_00989_mRNA_9.1	-
GF0022295	1	1	0	Hypothetical protein (2)	-	-	scaffold_5_mRNA_1044.1	C_unshiu_00989_mRNA_6.1	-

ID	Num in <i>C. clementinae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0022294	1	1	0	Hypothetical protein (2)	COP9 vesicle exit [GO:0030127]; cellular component [2]; zinc ion binding [GO:0005270 molecular function] [2]; intracellular protein transport [GO:0006886 biological process] [2]; ER to Golgi vesicle-mediated transport [GO:0006888 biological process] [2]	Zinc finger, Cys2/His4-type [IPR010951]; Zinc finger, type-2 [IPR010305]; Sec23/Sos-2; H-gelolin-like domain [IPR029006]; ADP-H-gelolin-like domain [IPR007123] [2]	scaffold_5_mRNA_1040.1	C_unshiu_00989_mRNA_2.1	-
GF0022292	1	1	0	Hypothetical protein (2)		Gag-polypeptide of RT copia-type [IPR029472] [1]; LOG family [IPR031100] [2]	scaffold_5_mRNA_1027.1	C_unshiu_00946_mRNA_8.1	-
GF0022291	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4283 [IPR025558] [2]	scaffold_5_mRNA_1025.1	C_unshiu_00946_mRNA_10.1	-
GF0022290	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] [2]; RNA-DNA hybrid ribonuclease activity [GO:004523 molecular function] [2]		scaffold_5_mRNA_1024.1	C_unshiu_00946_mRNA_11.1	-
GF0022289	1	1	0	Ribonuclease H (2)	zinc ion binding [GO:0008270 molecular function] [2]; nucleic acid binding [GO:0003676 molecular function] [2]; nucleic acid binding [GO:0003676 molecular function] [2]		scaffold_5_mRNA_1020.1	C_unshiu_00946_mRNA_14.1	-
GF0022288	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508 biological process] [2]; serine-type peptidase activity [GO:0008236 molecular function] [2]	S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] [2]	scaffold_5_mRNA_102.1	C_unshiu_02888_mRNA_1.1	-
GF0022286	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular function] [2]; nucleic acid binding [GO:0003676 molecular function] [2]	Zinc finger, CCHC-type [IPR001878] [2]; Domain of unknown function DUF4283 [IPR025558] [2]	scaffold_5_mRNA_1009.1	C_unshiu_00083_mRNA_14.1	-
GF0022285	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524 molecular function] [2]; protein phosphorylation [GO:0006468 biological process] [2]; protein kinase activity [GO:0004672 molecular function] [2]; protein binding [GO:0005151 molecular function] [2]	Transposon, En-Spm-like [IPR004242] [2]; Transposon-associated domain [IPR029480] [2]	scaffold_5_mRNA_1002.1	C_unshiu_00083_mRNA_17.1	-
GF0022284	1	1	0	Lysosomal Pro-Xaa carboxypeptidase (2)	proteolysis [GO:0006508 biological process] [2]; serine-type peptidase activity [GO:0008236 molecular function] [2]	Alpha/Beta hydrolase fold [IPR029058] [2]; Peptidase S28 [IPR008758] [2]	scaffold_4_mRNA_999.1	C_unshiu_01189_mRNA_5.1	-
GF0022283	1	1	0	Hypothetical protein (2)	ATP binding [GO:0006508 biological process] [2]	Peptidase S28 [IPR008758] [2]	scaffold_4_mRNA_997.1	C_unshiu_01189_mRNA_3.1	-
GF0022282	1	1	0	LRR receptor-like kinase family protein (2)	ATP binding [GO:0005524 molecular function] [2]; protein phosphorylation [GO:0006468 biological process] [2]; protein kinase activity [GO:0004672 molecular function] [2]; protein binding [GO:0005151 molecular function] [2]	Protein kinase domain [IPR007019] [2]; Leucine-rich repeat domain [IPR023675] [2]; Protein kinase-like domain [IPR011009] [2]; Leucine-rich repeat, typical subtype [IPR003591] [2]; Protein kinase, ATP binding site [IPR017441] [2]; Tyrosine-protein kinase, active site [IPR008266] [2]; Leucine-rich repeat [IPR001611] [2]; Concavocalin A-like lectin/glycanase domain [IPR013230] [1]	scaffold_4_mRNA_995.1	C_unshiu_01189_mRNA_1.1	-
GF0022281	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] [1]	Zinc finger C2H2-type [IPR013087] [1]	scaffold_4_mRNA_984.1	C_unshiu_00715_mRNA_2.1	-
GF0022280	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524 molecular function] [2]; protein phosphorylation [GO:0006468 biological process] [2]; protein kinase activity [GO:0004672 molecular function] [2]; protein binding [GO:0005151 molecular function] [2]	Protein kinase, ATP binding site [IPR007019] [2]; Leucine-rich repeat domain [IPR023675] [2]; Protein kinase-like domain [IPR011009] [2]; Leucine-rich repeat, typical subtype [IPR003591] [1]; Concavocalin A-like lectin/glycanase domain [IPR013230] [1]	scaffold_4_mRNA_983.1	C_unshiu_00715_mRNA_3.1	-
GF0022279	1	1	0	LRR receptor-like kinase family protein (2)	ATP binding [GO:0005524 molecular function] [2]; protein phosphorylation [GO:0006468 biological process] [2]; protein kinase activity [GO:0004672 molecular function] [2]; protein binding [GO:0005151 molecular function] [1]	ATP binding site [IPR007019] [2]; Leucine-rich repeat domain [IPR023675] [2]; Protein kinase-like domain [IPR011009] [2]; Leucine-rich repeat, typical subtype [IPR003591] [1]; Concavocalin A-like lectin/glycanase domain [IPR013230] [1]	scaffold_4_mRNA_981.1	C_unshiu_00715_mRNA_4.1	-
GF0022278	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L-domain-like [IPR023675] [2]; Leucine-rich repeat domain [IPR001611] [2]	scaffold_4_mRNA_980.1	C_unshiu_00715_mRNA_5.1	-
GF0022277	1	1	0	Hypothetical leucine rich repeat protein (2)	protein binding [GO:0005515 molecular function] [2]	Protein kinase domain [IPR001611] [2]	scaffold_4_mRNA_977.1	C_unshiu_00715_mRNA_8.1	-
GF0022276	1	1	0	Hypothetical protein (2)		Protein kinase, ATP binding site [IPR007019] [2]; Leucine-rich repeat domain [IPR023675] [2]; P-loop containing nucleoside triphosphate hydrolase [IPR027417] [2]; Small GTPase superfamily [IPR001896] [2]; Small GTP-binding protein domain [IPR005225] [2]; Small GTPase superfamily [IPR005225] [2]; Small GTPase superfamily, Ras type [IPR020491] [1]	scaffold_4_mRNA_974.1	C_unshiu_00715_mRNA_11.1	-
GF0022275	1	1	0	Hypothetical protein (2)		Protein kinase, ATP binding site [IPR007019] [2]; Leucine-rich repeat domain [IPR023675] [2]; P-loop containing nucleoside triphosphate hydrolase [IPR027417] [2]; Small GTPase superfamily [IPR001896] [2]; Small GTP-binding protein domain [IPR005225] [2]; Small GTPase superfamily [IPR005225] [2]; Small GTPase superfamily, Ras type [IPR020491] [1]	scaffold_4_mRNA_973.1	C_unshiu_00715_mRNA_12.1	-
GF0022274	1	1	0	Hypothetical protein (2)		Protein kinase, ATP binding site [IPR007019] [2]; Leucine-rich repeat domain [IPR023675] [2]; P-loop containing nucleoside triphosphate hydrolase [IPR027417] [2]; Small GTPase superfamily [IPR001896] [2]; Small GTP-binding protein domain [IPR005225] [2]; Small GTPase superfamily [IPR005225] [2]; Small GTPase superfamily, Ras type [IPR020491] [1]	scaffold_4_mRNA_950.1	C_unshiu_00013_mRNA_72.1	-
GF0022271	1	1	0	Hypothetical protein (2)		Protein kinase, ATP binding site [IPR007019] [2]; Leucine-rich repeat domain [IPR023675] [2]; P-loop containing nucleoside triphosphate hydrolase [IPR027417] [2]; Small GTPase superfamily [IPR001896] [2]; Small GTP-binding protein domain [IPR005225] [2]; Small GTPase superfamily [IPR005225] [2]; Small GTPase superfamily, Ras type [IPR020491] [1]	scaffold_4_mRNA_943.1	C_unshiu_00013_mRNA_61.1	-
GF0022269	1	1	0	Hypothetical protein (2)	Domain of unknown function DUF1985 [IPR015410] [2]		scaffold_4_mRNA_942.1	C_unshiu_00013_mRNA_60.1	-
GF0022268	1	1	0	Hypothetical protein (2)	GTase activity [GO:0003924 molecular function] [2]; GTP binding [GO:0005525 molecular function] [2]; protein binding [GO:0005151 molecular function] [1]; biological process [GO:0006886 molecular process] [1]; intracellular protein transport [GO:0006886 biological process] [1]; intracellular protein transport [GO:0006886 biological process] [1]; small GTPase mediated signal transduction [GO:0007264 biological process] [1]	GTase activity [GO:0003924 molecular function] [2]; GTP binding [GO:0005525 molecular function] [2]; protein binding [GO:0005151 molecular function] [1]; biological process [GO:0006886 molecular process] [1]; intracellular protein transport [GO:0006886 biological process] [1]; intracellular protein transport [GO:0006886 biological process] [1]; small GTPase mediated signal transduction [GO:0007264 biological process] [1]	scaffold_4_mRNA_941.1	C_unshiu_00013_mRNA_59.1	-
GF0022267	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_940.1	C_unshiu_00013_mRNA_58.1	-
GF0022266	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_938.1	C_unshiu_00013_mRNA_56.1	-
GF0022265	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4283 [IPR025558] [2]	scaffold_4_mRNA_926.1	C_unshiu_00013_mRNA_44.1	-
GF0022264	1	1	0	Putative transporter MCH1 (2)		Nodulin-like [IPR010658] [2]; Major facilitator superfamily domain [IPR020464] [2]	scaffold_4_mRNA_921.1	C_unshiu_00013_mRNA_41.1	-
GF0022263	1	1	0	Putative calcium-binding protein CML15 (2)	calcium ion binding [GO:0005509 molecular function] [2]	Hand 1, calcium-binding site [IPR012370] [2]; EF-hand domain [IPR019922] [2]	scaffold_4_mRNA_92.1	C_unshiu_00202_mRNA_13.1	-
GF0022262	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4283 [IPR025558] [1]	scaffold_4_mRNA_909.1	C_unshiu_00013_mRNA_29.1	-
GF0022261	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4283 [IPR025558] [1]	scaffold_4_mRNA_900.1	C_unshiu_00013_mRNA_18.1	-
GF0022260	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508 biological process] [2]; cysteine-type peptidase activity [GO:0008234 molecular function] [2]	Ulp1 protease family, C-terminal catalytic domain [IPR0036353] [2]	scaffold_4_mRNA_898.1	C_unshiu_00013_mRNA_16.1	-
GF0022258	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L-domain-like [IPR023675] [2]; Protein kinase-like domain [IPR011009] [2]; Leucine-rich repeat, typical subtype [IPR003591] [2]; Protein kinase domain [IPR000719] [2]; Leucine-rich repeat [IPR001611] [2]; Leucine-rich repeat domain, L-domain-like [IPR023675] [2]	scaffold_4_mRNA_892.1	C_unshiu_00013_mRNA_12.1	-
GF0022257	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L-domain-like [IPR023675] [2]; Protein kinase-like domain [IPR011009] [2]; Leucine-rich repeat, typical subtype [IPR003591] [2]; Protein kinase domain [IPR000719] [2]; Leucine-rich repeat [IPR001611] [2]; Leucine-rich repeat domain, L-domain-like [IPR023675] [2]	scaffold_4_mRNA_887.1	C_unshiu_00013_mRNA_6.1	-
GF0022256	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L-domain-like [IPR023675] [2]; Protein kinase-like domain [IPR011009] [2]; Leucine-rich repeat, typical subtype [IPR003591] [2]; Protein kinase domain [IPR000719] [2]; Leucine-rich repeat [IPR001611] [2]; Leucine-rich repeat domain, L-domain-like [IPR023675] [2]	scaffold_4_mRNA_879.1	C_unshiu_00280_mRNA_31.1	-
GF0022254	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L-domain-like [IPR023675] [2]; Protein kinase-like domain [IPR011009] [2]; Leucine-rich repeat, typical subtype [IPR003591] [2]; Protein kinase domain [IPR000719] [2]; Leucine-rich repeat [IPR001611] [2]; Leucine-rich repeat domain, L-domain-like [IPR023675] [2]	scaffold_4_mRNA_873.1	C_unshiu_00280_mRNA_25.1	-
GF0022253	1	1	0	LRR receptor-like kinase family protein (2)	protein binding [GO:0005515 molecular function] [2]; protein kinase activity [GO:0004672 molecular function] [2]; protein phosphorylation [GO:0006468 biological process] [2]; ATP binding [GO:0005524 molecular function] [2]	Protein kinase, ATP binding site [IPR010951] [2]; Concavocalin A-like lectin/glycanase domain [IPR013230] [2]; Serine/threonine/proline-specific protein kinase, catalytic domain [IPR002290] [1]; Serine/threonine/proline-specific protein kinase, catalytic domain [IPR0001245] [1]	scaffold_4_mRNA_871.1	C_unshiu_00280_mRNA_22.1	-
GF0022252	1	1	0	Hypothetical protein (2)		Protein kinase, ATP binding site [IPR010951] [2]; Concavocalin A-like lectin/glycanase domain [IPR013230] [2]; Serine/threonine/proline-specific protein kinase, catalytic domain [IPR002290] [1]; Serine/threonine/proline-specific protein kinase, catalytic domain [IPR0001245] [1]	scaffold_4_mRNA_870.1	C_unshiu_00280_mRNA_21.1	-
GF0022250	1	1	0	Hypothetical protein (2)	cysteine-type peptidase activity [GO:0008234 molecular function] [2]; protein binding [GO:0005508 molecular function] [2]; protein phosphorylation [GO:0006468 biological process] [2]	Leucine-rich repeat, typical subtype [IPR003591] [2]; Leucine-rich repeat domain [IPR023675] [2]			
GF0022249	1	1	0	Hypothetical protein (2)		Protein kinase-like domain [IPR011009] [2]; Domain of unknown function DUF1985 [IPR025558] [2]; Domain of unknown function DUF1985 [IPR015410] [2]	scaffold_4_mRNA_863.1	C_unshiu_00258_mRNA_38.1	-
GF0022248	1	1	0	Hypothetical protein (2)		MULE transposase domain [IPR018289] [2]; Transposase, MuDr, plant [IPR004332] [2]	scaffold_4_mRNA_862.1	C_unshiu_00258_mRNA_37.1	-
GF0022247	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular function] [2]; protein dimerization activity [GO:0046983 molecular function] [2]; nucleic acid binding [GO:0003676 molecular function] [1]	Zinc finger, BED-type [IPR003561] [2]; HAT, C-terminal dimerization domain [IPR008906] [2]; Zinc finger C2H2-type [IPR0013087] [1]	scaffold_4_mRNA_861.1	C_unshiu_00258_mRNA_35.1	-
GF0022246	1	1	0	Hypothetical protein (2)		Protein kinase, ATP binding site [IPR010951] [2]; Concavocalin A-like lectin/glycanase domain [IPR013230] [1]; Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] [1]	scaffold_4_mRNA_860.1	C_unshiu_00258_mRNA_34.1	-

ID	Num. in <i>C. clementine</i>	Num. in <i>C. umshiu</i>	Num. in <i>P. trifoliae</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliae</i>
GF0022245	1	1	0	Hypothetical protein (2)	Reverse transcriptase, RNA-dependent DNA polymerase [IPR031103] (2); LOG scaffold_4_mRNA_845.1 family [IPR031100] (2)	scaffold_4_mRNA_842.1	C_umshiu_00258_mRNA_19.1	-	-
GF0022244	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524] molecular_funtion (2); protein kinase activity [GO:0006575] (2); protein kinase function (2); protein phosphorylation [GO:0006468] biological_process (2)	Protein kinase-like domain [IPR011009] (2); Protein kinase domain [IPR000719] (2)	scaffold_4_mRNA_841.1	C_umshiu_00258_mRNA_14.1	-
GF0022243	1	1	0	Hypothetical protein (2)	cysteine-type peptidase activity [GO:0008234] molecular_function (2); proteolysis [GO:0006508] biological_process (2)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (2)	scaffold_4_mRNA_836.1	C_umshiu_00258_mRNA_9.1	-
GF0022242	1	1	0	Hypothetical protein (2)	0 OTU domain-containing (2)	OTU domain [IPR003323] (2)	scaffold_4_mRNA_833.1	C_umshiu_00210_mRNA_2.1	-
GF0022241	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	scaffold_4_mRNA_832.1	C_umshiu_00210_mRNA_3.1	-	-
GF0022240	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	[IPR027413] (1)	scaffold_4_mRNA_817.1	C_umshiu_00210_mRNA_17.1	-
GF0022238	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	[IPR027413] (1)	scaffold_4_mRNA_807.1	C_umshiu_01202_mRNA_10.1	-
GF0022237	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	[IPR029572] (1)	scaffold_4_mRNA_792.1	C_umshiu_00607_mRNA_11.1	-
GF0022236	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	S-adenosyl-LTR copolymerase [IPR029572] (1)	-	-	-
GF0022235	1	1	0	Caffeic acid O-methyltransferase (1); Caffeic acid 3-O-methyltransferase (1)	O-methyltransferase activity [GO:0008171] molecular_function (2); O-methyltransferase activity [GO:0008168] molecular_function (2)	methyltransferase [IPR0001077] (2); O-methyltransferase, family 2 [IPR010077] (2); O-methyltransferase COMT-type [IPR016641] (2)	scaffold_4_mRNA_785.1	C_umshiu_00607_mRNA_18.1	-
GF0022234	1	1	0	Hypothetical protein (2)	cell redox homeostasis [GO:0045454] biological_process (2)	Thioredoxin-like fold [IPR012336] (2); Thioredoxin domain [IPR013766] (2)	scaffold_4_mRNA_784.1	C_umshiu_00607_mRNA_19.1	-
GF0022233	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	[IPR029572] (1)	scaffold_4_mRNA_770.1	C_umshiu_01214_mRNA_8.1	-
GF0022232	1	1	0	Lipoate synthase (2)	intramolecular transferase activity [GO:0016866] molecular_function (2)	Tetraponitol cyclase/protein prenyltransferase alpha-alpha toroid [IPR008930] (2); Squalene cyclase, C-terminal [IPR032696] (2); Terpene synthase, conserved site [IPR002365] (2); Squalene cyclase [IPR018333] (1)	scaffold_4_mRNA_739.1	C_umshiu_00872_mRNA_10.1	-
GF0022230	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	MULE transposase domain [IPR018289] (2)	scaffold_4_mRNA_730.1	C_umshiu_02901_mRNA_1.1	-
GF0022229	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677] molecular_function (2); transcription factor activity, sequence-specific DNA binding [GO:000700] (2); regulation of transcription, DNA-templated [GO:0006355] biological_process (2)	scaffold_4_mRNA_724.1	C_umshiu_01019_mRNA_17.1	-	-
GF0022228	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (1); Envelope membrane protein, chloroplastic (1)	AP2/ERF domain [IPR001471] (2); DNA-binding domain [IPR016177] (2)	scaffold_4_mRNA_716.1	C_umshiu_00872_mRNA_4.1	-
GF0022227	1	1	0	CemA-like proton extrusion protein-related isoform 1 (1); Envelope membrane protein, chloroplastic (1)	integral component of membrane [GO:0016021] cellular_component (2)	Chloroplast envelope membrane protein; CemA [IPR004282] (2)	scaffold_4_mRNA_712.1	C_umshiu_00177_mRNA_26.1	-
GF0022226	1	1	0	Nucleolar protein 56 (1); SAR DNA-binding protein-1 (1)	protein binding [GO:0005515] molecular_function (1)	[IPR012376] (2); NOP5, N-terminal [IPR012974] (2); WD40/VYTV repeat-like-containing domain [IPR015943] (1)	scaffold_4_mRNA_711.1	C_umshiu_00177_mRNA_25.1	-
GF0022225	1	1	0	Hypothetical protein (2)	Leucine-rich repeat protein kinase family 0 protein, putative (1); LRR receptor-like serine/threonine-protein kinase FLS2 (1)	protein binding [GO:0005515] molecular_function (2); protein phosphatase 1 (1); protein kinase activity [GO:0004672] molecular_function (1); ATP binding [GO:0005524] molecular_function (1)	scaffold_4_mRNA_701.1	C_umshiu_02892_mRNA_1.1	-
GF0022224	1	1	0	GDSL esterase/lipase At5g45670 (1); GDSL-like Lipase/Acyhydrolase 0 superfamily protein, putative isoform 1 (1)	GDSEL esterase/lipase At5g45670 (1); GDSEL-like Lipase/Acyhydrolase 0 superfamily, putative isoform 1 (1)	GDSEL hydrolase-type esterase domain [IPR01330] (2); GDSEL lipase-estrase [IPR01087] (1)	scaffold_4_mRNA_699.1	C_umshiu_00125_mRNA_12.1	-
GF0022223	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	SIGNI hydrolase-type esterase domain [IPR01330] (1)	scaffold_4_mRNA_693.1	C_umshiu_00616_mRNA_19.1	-
GF0022222	1	1	0	GDSEL-motif lipase 7 (2)	hydrolase activity, acting on ester bonds [GO:0016788] molecular_function (2)	GDSEL hydrolase-type esterase [IPR001087] (2); SIGNI hydrolase-type esterase domain [IPR01330] (2)	scaffold_4_mRNA_689.1	C_umshiu_00616_mRNA_16.1	-
GF0022221	1	1	0	Hypothetical protein (1); Leucine-rich repeat protein kinase family protein (1)	protein binding [GO:0005515] molecular_function (2)	Leucine-rich repeat, typical subtype [IPR003591] (2); Leucine-rich repeat domain, 1, decapeptide [IPR032675] (2); Protein kinase domain [IPR011009] (2); Leucine-rich repeat domain [IPR016111] (2); Leucine-rich repeat-type kinase [IPR013210] (2); Leucine-rich repeat [IPR001611] (1); Protein kinase domain [IPR017719] (1); Protein kinase, ATP binding site [IPR017441] (1); Serine/threonine-protein kinase, active site [IPR008271] (1)	scaffold_4_mRNA_670.1	C_umshiu_00892_mRNA_1.1	-
GF0022220	1	1	0	GDSL esterase/lipase At5g45670 (1); GDSL-like Lipase/Acyhydrolase 0 superfamily, putative isoform 1 (1)	GDSEL esterase/lipase At5g45670 (1); GDSEL-like Lipase/Acyhydrolase 0 superfamily protein, putative isoform 1 (1)	SIGNI hydrolase-type esterase domain [IPR01330] (2); GDSEL hydrolase-type esterase domain [IPR01330] (2)	scaffold_4_mRNA_669.1	C_umshiu_01102_mRNA_5.1	-
GF0022219	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	SIGNI hydrolase-type esterase domain [IPR01330] (1)	scaffold_4_mRNA_663.1	C_umshiu_00794_mRNA_3.1	-
GF0022218	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (1); LRR receptor-like serine/threonine-protein kinase FLS2 (1)	GDSEL hydrolase-type esterase [IPR001087] (2); Leucine-rich repeat-containing domain [IPR01330] (2)	scaffold_4_mRNA_660.1	C_umshiu_01014_mRNA_6.1	-
GF0022217	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	GDSEL hydrolase-type esterase domain [IPR01330] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat-containing domain [IPR01330] (2)	scaffold_4_mRNA_659.1	C_umshiu_01014_mRNA_5.1	-
GF0022216	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	GDSEL hydrolase-type esterase domain [IPR01330] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat-containing domain [IPR01330] (2)	scaffold_4_mRNA_655.1	C_umshiu_01014_mRNA_6.1	-
GF0022215	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	GDSEL hydrolase-type esterase domain [IPR01330] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat-containing domain [IPR01330] (2)	scaffold_4_mRNA_651.1	C_umshiu_01966_mRNA_4.1	-
GF0022214	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	GDSEL hydrolase-type esterase domain [IPR01330] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat-containing domain [IPR01330] (2)	scaffold_4_mRNA_633.1	C_umshiu_00794_mRNA_3.1	-
GF0022213	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	GDSEL hydrolase-type esterase domain [IPR01330] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat-containing domain [IPR01330] (2)	scaffold_4_mRNA_626.1	C_umshiu_00794_mRNA_6.4	-
GF0022212	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	GDSEL hydrolase-type esterase domain [IPR01330] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat-containing domain [IPR01330] (2)	scaffold_4_mRNA_622.1	C_umshiu_00794_mRNA_3.8	-
GF0022210	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	GDSEL hydrolase-type esterase domain [IPR01330] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat-containing domain [IPR01330] (2)	scaffold_4_mRNA_613.1	C_umshiu_01014_mRNA_4.1	-
GF0022209	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	GDSEL hydrolase-type esterase domain [IPR01330] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat-containing domain [IPR01330] (2)	scaffold_4_mRNA_612.1	C_umshiu_01014_mRNA_5.1	-
GF0022208	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	GDSEL hydrolase-type esterase domain [IPR01330] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat-containing domain [IPR01330] (2)	scaffold_4_mRNA_610.1	C_umshiu_01014_mRNA_6.1	-
GF0022207	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	GDSEL hydrolase-type esterase domain [IPR01330] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat-containing domain [IPR01330] (2)	scaffold_4_mRNA_609.1	C_umshiu_01014_mRNA_16.1	-
GF0022206	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	GDSEL hydrolase-type esterase domain [IPR01330] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat-containing domain [IPR01330] (2)	scaffold_4_mRNA_602.1	C_umshiu_01014_mRNA_10.1	-
GF0022205	1	1	0	Hypothetical protein (2)	0 SUMO-conjugating enzyme ubc9 (2)	MULE transposase domain [IPR018289] (2); Transposase, MuDR, plant [IPR004332] (2)	scaffold_4_mRNA_600.1	C_umshiu_02795_mRNA_2.1	-
GF0022204	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Transposase, MuDR, plant [IPR004332] (2)	scaffold_4_mRNA_591.1	C_umshiu_00168_mRNA_16.1	-
GF0022203	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Transposase, MuDR, plant [IPR004332] (2)	scaffold_4_mRNA_587.1	C_umshiu_00306_mRNA_11.1	-
GF0022202	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	[IPR025558] (2); Zinc knuckle CX2C-X4H1X4C [IPR025836] (2)	scaffold_4_mRNA_581.1	C_umshiu_00306_mRNA_17.1	-
GF0022201	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Protein kinase-like domain [IPR011009] (1)	scaffold_4_mRNA_579.1	C_umshiu_00306_mRNA_20.1	-
GF0022199	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Protein kinase-like domain [IPR011009] (1)	scaffold_4_mRNA_565.1	C_umshiu_00306_mRNA_33.1	-
GF0022198	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Protein kinase-like domain [IPR011009] (1)	scaffold_4_mRNA_551.1	C_umshiu_00236_mRNA_20.1	-
GF0022197	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Polymerase/histidine phosphotransferase activity [GO:0003824] molecular_function (1)	scaffold_4_mRNA_545.1	C_umshiu_00236_mRNA_25.1	-
GF0022196	1	1	0	Mutator-like transposase (2)	0 Hypothetical protein (2)	MULE transposase domain [IPR018289] (2); Transposase, MuDR, plant [IPR004332] (2)	scaffold_4_mRNA_534.1	C_umshiu_00236_mRNA_36.1	-
GF0022195	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Transposase, MuDR, plant [IPR004332] (2)	scaffold_4_mRNA_523.1	C_umshiu_00022_mRNA_10.5	-
GF0022194	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Domain of unknown function DUF1985 [IPR015410] (2)	scaffold_4_mRNA_522.1	C_umshiu_00022_mRNA_105.1	-
GF0022193	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Domain of unknown function DUF1985 [IPR015410] (2)	scaffold_4_mRNA_519.1	C_umshiu_00022_mRNA_103.1	-
GF0022192	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Domain of unknown function DUF1985 [IPR015410] (2)	scaffold_4_mRNA_517.1	C_umshiu_00022_mRNA_101.1	-
GF0022191	1	1	0	TIGR01456 family HAD hydrolase (2)	0 Hypothetical protein (2)	HAD-like domain [IPR023214] (2)	scaffold_4_mRNA_513.1	C_umshiu_00022_mRNA_97.1	-
GF0022190	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	HAD-like domain [IPR023214] (2)	scaffold_4_mRNA_494.1	C_umshiu_02521_mRNA_2.1	-
GF0022189	1	1	0	Receptor-like protein kinase HERK 1 (2)	0 Hypothetical protein (2)	Protein kinase-like domain [IPR011009] (2); Malation-ATP carbonyl-binding domain [IPR024788] (2); Protein kinase, ATP binding site [IPR017441] (2); C-terminal A-like lectin/proteoglycan domain [IPR000719] (1); Serine-threonine-protein kinase catalytic domain [IPR001245] (1); Serine-threonine-lysine-protein kinase, catalytic domain [IPR001245] (1)	scaffold_4_mRNA_487.1	C_umshiu_00465_mRNA_13.1	-
GF0022186	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	cysteine-type peptidase activity [GO:0008234] molecular_function (2); proteolysis [GO:0006508] biological_process (2)	scaffold_4_mRNA_471.1	C_umshiu_00342_mRNA_25.1	-
GF0022185	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (2)	scaffold_4_mRNA_457.1	C_umshiu_00342_mRNA_12.1	-
GF0022184	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Protein of unknown function DUF674 [IPR007750] (2)	scaffold_4_mRNA_449.1	C_umshiu_00342_mRNA_5.1	-
GF0022183	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Protein of unknown function DUF674 [IPR007750] (2)	scaffold_4_mRNA_448.1	C_umshiu_00342_mRNA_4.1	-
GF0022182	1	1	0	DUF674 family protein (2)	0 Hypothetical protein (2)	Protein of unknown function DUF674 [IPR007750] (2)	scaffold_4_mRNA_447.1	C_umshiu_00342_mRNA_3.1	-
GF0022181	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Protein of unknown function DUF674 [IPR007750] (2)	scaffold_4_mRNA_443.1	C_umshiu_00832_mRNA_2.1	-
GF0022180	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Protein of unknown function DUF674 [IPR007750] (2)	scaffold_4_mRNA_427.1	C_umshiu_00832_mRNA_19.1	-
GF0022179	1	1	0	Nodulin Mn21/EamA-like transporter protein family (2)	membrane [GO:0016020] cellular_component (2); transmembrane transporter activity [GO:002857] molecular_function (2); integral component of membrane [GO:0016021 cellular_component] (2)	WAT1-related protein [IPR030184] (2); EamA domain [IPR00620] (2)	scaffold_4_mRNA_422.1	C_umshiu_00368_mRNA_14.1	-
GF0022177	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	ribosome [GO:0005840] cellular_component (2); structural constituent of ribosome [GO:0003735 molecular_function] (2); translation [GO:0004142 biological_process] (2)	scaffold_4_mRNA_397.1	C_umshiu_01865_mRNA_6.1	-
GF0022176	1	1	0	Putative sugar phosphate/phosphate translocator (2)	membrane [GO:0016020] cellular_component (2); transmembrane transporter activity [GO:002857] molecular_function (2); integral component of membrane [GO:0016021 cellular_component] (2)	Ribosomal protein L35a [IPR001780] (2); Sugar phosphate translocates domain [IPR004853] (2); Ribosomal protein L35Ac, conserved site [IPR018266] (2); Translation protein, beta-barrel domain [IPR009000] (2)	scaffold_4_mRNA_393.1	C_umshiu_00168_mRNA_32.1	-
GF0022175	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	membrane [GO:0016020] cellular_component (2); transmembrane transporter activity [GO:002857] molecular_function (2); integral component of membrane [GO:0016021 cellular_component] (2)	scaffold_4_mRNA_385.1	C_umshiu_00439_mRNA_22.1	-

ID	Num in <i>C. clementine</i>	Num in <i>C. umshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliata</i>
GF0022174	1	1	0	Cysteine/histidine-rich C1 domain protein (2)	intracellular signal transduction [GO:003556 biological_process] (2); oxidation-reduction process [GO:005114 biological_process] (1); protein-disulfide reductase activity [GO:0047134 molecular_function] (1)	Protein kinase C-like, phosphoester/diacylglycerol-binding domain [IPR022119] (2); DC1 [IPR004146] (1); C1-like [IPR011424] (1)	scaffold_4_mRNA_374.1	C_umshiu_00439_mRNA_10.1	-
GF0022172	1	1	0	Hypothetical protein (2)	-	X8 domain [IPR012946] (2)	scaffold_4_mRNA_368.1	C_umshiu_00439_mRNA_4.1	-
GF0022171	1	1	0	Hypothetical protein (2)	-	scaffold_4_mRNA_367.1	C_umshiu_00439_mRNA_3.1	-	
GF0022170	1	1	0	Hypothetical protein (2)	-	scaffold_4_mRNA_359.1	C_umshiu_00979_mRNA_23.1	-	
GF0022169	1	1	0	Thioredoxin H9 (2)	cell redox homeostasis [GO:0045454 biological_process] (2); glycerol ether metabolic process [GO:0006662 biological_process] (2); protein disulfide oxidoreductase activity [GO:0015035 molecular_function] (2)	Thioredoxin-like fold [IPR012326] (2); Thioredoxin domain [IPR013766] (2); Thioredoxin [IPR005746] (2)	scaffold_4_mRNA_346.1	C_umshiu_00979_mRNA_10.1	-
GF0022168	1	1	0	Hypothetical protein (2)	-	-	scaffold_4_mRNA_341.1	C_umshiu_00979_mRNA_5.1	-
GF0022163	1	1	0	Hypothetical protein (2)	-	-	scaffold_4_mRNA_3263.1	C_umshiu_00001_mRNA_35.1	-
GF0022161	1	1	0	Hypothetical protein (2)	-	-	scaffold_4_mRNA_325.1	C_umshiu_00299_mRNA_34.1	-
GF0022160	1	1	0	G-type lectin S-receptor-like (2)	serine/threonine-protein kinase RLRK1 (2) activity [GO:0004672 molecular_function] (2); protein kinase activity [GO:00467474 molecular_function] (2)	Bulb-type lectin domain [IPR001480] (2); Serine/threonine-protein kinase, biological process [IPR006468 molecular_function] (2); Protein phosphorylation [IPR006468 molecular_function] (2); Protein kinase [IPR011009] (2); S-receptor-like serine/threonine-protein kinase [IPR024171] (2); Protein kinase domain [IPR0024171] (2); Serine/threonine kinase [IPR0024171] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1); Conserved A-like lectin/glycanase domain [IPR013320] (1)	scaffold_4_mRNA_3240.1	C_umshiu_00001_mRNA_377.1	-
GF0022159	1	1	0	DEAD-box ATP-dependent RNA helicase (2)	nucleic acid binding [GO:003676 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2)	ATP binding [IPR0005524 molecular_function] (2); DEAD-box type, Q motif [IPR014014] (2); DEAD-box type, Q motif [IPR014014] (2); Nucleic acid binding [IPR0005524 molecular_function] (2); DEAD box, conserved site [IPR000629] (2); DEAD/DEAH box helicase domain [IPR011545] (2)	scaffold_4_mRNA_324.1	C_umshiu_00299_mRNA_33.1	-
GF0022158	1	1	0	Putative micronuclear linker histone polyprotein-like (1)	putative protein [GO:0005515 molecular_function] (2); N-terminal arginine-rich hydrodrolase activity [GO:0008418 molecular_function] (1); DNA binding [GO:0003577 molecular_function] (1) DNA binding [GO:0003677 molecular_function] (2); sequence-specific DNA binding [GO:0003677 molecular_function] (2); sequence-specific DNA binding [GO:0003676 molecular_function] (2); regulation of transcription, DNA-templated [GO:0003555 molecular_function] (2); regulation of transcription, RNA-templated [GO:0003555 molecular_function] (2)	arginine-rich hydrodrolase [IPR026750] (1); Homeobox domain-like [IPR009057] (1); SANT/Myb domain [IPR001005] (1)	scaffold_4_mRNA_3236.1	C_umshiu_00001_mRNA_381.1	-
GF0022157	1	1	0	Homeobox-leucine zipper protein HAT14 (2)	leucine zipper, homeobox-associated transcription, DNA-templated [GO:0006355 biological_process] (2); transcription factor activity, sequence-specific DNA binding [GO:0003700 molecular_function] (2)	Homeobox domain [IPR01336] (2); Leucine zipper, homeobox-associated transcription, DNA-templated [IPR003106] (2); Homeodomain-like [IPR009057] (1); Homeobox domain-like [IPR009057] (1)	scaffold_4_mRNA_3233.1	C_umshiu_00001_mRNA_383.1	-
GF0022156	1	1	0	Hypothetical protein (2)	-	Ribonuclease H-like domain [IPR012337] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2); Endonuclease/exonuclease/phosphatase sorting-associated protein 62 [IPR009291] (1)	scaffold_4_mRNA_3231.1	C_umshiu_00001_mRNA_385.1	-
GF0022155	1	1	0	Non-LTR retroelement reverse transcriptase (1); Hypothetical protein (1)	nucleic acid binding [GO:0003676 molecular_function] (2)	reverse transcriptase [IPR0027624 biological_process] (2); nucleocytoplasmic transport [GO:000913 biological_process] (1); membrane [GO:0016020 cellular_component] (1); signal transduction [GO:0003555 biological_process] (1); intracellular protein transport [GO:0006886 biological_process] (1); intracellular protein transport [GO:0005622 cellular_component] (1); protein transport [GO:0001501 biological_process] (1)	scaffold_4_mRNA_3218.1	C_umshiu_00001_mRNA_400.1	-
GF0022154	1	1	0	Hypothetical protein (2)	-	ChvE-like superfamily [IPR011006] (2); Signal transduction response regulator, receiver domain [IPR001789] (2)	scaffold_4_mRNA_321.1	C_umshiu_00299_mRNA_30.1	-
GF0022152	1	1	0	Two-component response regulator ARR3-like protein (2)	phosphorelay signal transduction system [GO:0000160 biological_process] (2)	phosphorelay signal transduction system [IPR000571] (2); Small GT-Pase superfamily [IPR0020849] (1); Signal transduction response regulator, receiver domain [IPR001789] (2)	scaffold_4_mRNA_320.1	C_umshiu_00299_mRNA_29.1	-
GF0022151	1	1	0	Ras-related protein Rab11A (2)	GTP binding [GO:0005525 molecular_function] (2); GTPase activity [GO:0000924 molecular_function] (2); small GTPase signal transduction [GO:0003555 biological_process] (1); intracellular protein transport [GO:0006886 biological_process] (1); intracellular protein transport [GO:0001501 biological_process] (1); protein transport [GO:0001501 biological_process] (1)	GTP binding [IPR0005525 molecular_function] (2); GTPase activity [IPR0000924 molecular_function] (2); small GTPase signal transduction [IPR0003555 biological_process] (1); intracellular protein transport [IPR0006886 biological_process] (1); intracellular protein transport [IPR0001501 biological_process] (1); protein transport [IPR0001501 biological_process] (1)	scaffold_4_mRNA_3195.1	C_umshiu_00001_mRNA_317.1	-
GF0022150	1	1	0	Hypothetical protein (2)	-	SAM-dependent methyltransferase SMT-type [IPR03384] (1); Methyltransferase type [IPR03384] (1); S-adenosyl-L-methionine-dependent methyltransferase [IPR29063] (1); Sterol methyltransferase C-terminal [IPR013705] (1)	scaffold_4_mRNA_3193.1	C_umshiu_00001_mRNA_315.1	-
GF0022149	1	1	0	Tocopherol O-methyltransferase (1); Sterol methyltransferase-like 3 (1)	-	B3 DNA binding domain [IPR003340] (2); Leucine-rich repeat domain, L domain [IPR012337] (2); Leucine-rich repeat domain [IPR012337] (2); DNA-binding monoubiquitin domain [IPR015300] (2); Auxin response factor [IPR010525] (2); Receptor L-domain [IPR00094] (1)	scaffold_4_mRNA_3192.2	C_umshiu_00001_mRNA_314.2	-
GF0022147	1	1	0	Auxin response factor (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); response to hormone [GO:0009725 biological_process] (2); nucleus [GO:000534 cellular_component] (2); DNA binding [GO:0003677 molecular_function] (2)	B3 DNA binding domain [IPR003340] (2); Leucine-rich repeat domain, L domain [IPR012337] (2); Leucine-rich repeat domain [IPR012337] (2); DNA-binding monoubiquitin domain [IPR015300] (2); Auxin response factor [IPR010525] (2); Receptor L-domain [IPR00094] (1)	scaffold_4_mRNA_3177.1	C_umshiu_00001_mRNA_299.1	-
GF0022146	1	1	0	Disease resistance protein (1); NH-ARC domain disease resistance protein (1)	ADP binding [GO:0043531 molecular_function] (1)	Leucine-rich repeat domain, L domain-like [IPR032675] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1); NB-ARC [IPR002182]	scaffold_4_mRNA_3176.1	C_umshiu_00001_mRNA_298.1	-
GF0022143	1	1	0	Purple acid phosphatase (2)	acid phosphatase activity [GO:0003993 molecular_function] (2); metal ion binding [GO:0046872 molecular_function] (2); hydrolase activity [GO:0010787 molecular_function] (2)	Purple and phosphate-like, N-terminal [IPR008963] (2); Metallo-dependent phosphatase-like [IPR029052] (2); Iron/zinc/purple acid phosphatase-like C-terminal domain [IPR025733] (2); Purple acid phosphatase, N-terminal [IPR012314] (2); Calcium-activated phosphatase, Asp1-type [IPR004843] (1); Necrosesin-like phosphotriesterase domain, Asp1-type [IPR027273] (1); Calneurin-like phosphotriesterase domain, Asp1-type [IPR004843] (1)	scaffold_4_mRNA_3144.1	C_umshiu_00001_mRNA_271.1	-
GF0022142	1	1	0	Cytochrome P450 (2)	iron ion binding [GO:0005506 molecular_function] (2); metal ion binding [GO:0005077 molecular_function] (2); oxidation-reduction process [GO:005114 biological_process] (2); oxoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] (2)	Cytchrome P450, E-class, group I [IPR00240] (2); Cytchrome P450, conserved site [IPR017972] (2); Cytchrome P450 [IPR001128] (2)	scaffold_4_mRNA_314.1	C_umshiu_00299_mRNA_23.1	-
GF0022141	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_4_mRNA_3128.1	C_umshiu_00001_mRNA_252.1	-
GF0022140	1	1	0	Putative polynucleotide adenylyltransferase family protein-like (1); Polyadenylate adenyllyltransferase family protein (1)	adenylyltransferase activity [GO:0005515 molecular_function] (2); transmembrane receptor protein kinase activity [GO:0019199 molecular_function] (1)	tRNA nucleotidyltransferase/poly(A) polymerase, RNA and SmbB-binding domain [IPR032828] (2)	scaffold_4_mRNA_3122.1	C_umshiu_00001_mRNA_246.1	-
GF0022138	1	1	0	Somatic embryogenesis receptor kinase 1 (2)	protein binding [GO:0005515 molecular_function] (2); transmembrane receptor protein kinase activity [GO:0019199 molecular_function] (1)	Leucine-rich repeat domain, L domain [IPR012370] (2); Leucine-rich repeat-containing domain, plant-type [IPR016111] (2); Leucine-rich repeat-containing domain, plant-type [IPR013210] (2); Somatic embryogenesis receptor-like kinase [IPR031048] (1)	scaffold_4_mRNA_3109.1	C_umshiu_00001_mRNA_233.1	-
GF0022137	1	1	0	Hypothetical protein (2)	-	scaffold_4_mRNA_3102.1	C_umshiu_00001_mRNA_228.1	-	
GF0022136	1	1	0	Hypothetical protein (2)	catalytic activity [GO:0003824 molecular_function] (2)	Alkaline nucleic acid group IV deacetylaselase, C-terminal [IPR009006] (2); Om-DNA/Ag-deacetylase, C-terminal [IPR022643] (2)	scaffold_4_mRNA_310.1	C_umshiu_00299_mRNA_16.1	-
GF0022135	1	1	0	Hypothetical protein (2)	-	Retrotransposon gag domain [IPR005162] (1)	scaffold_4_mRNA_31.1	C_umshiu_00168_mRNA_38.1	-
GF0022134	1	1	0	SAUR family protein (2)	response to toxin [GO:0009733 biological_process] (1); glycosen phosphorylase activity [GO:0000184 molecular_function] (2)	Small auxin-up RNA [IPR003676] (1)	scaffold_4_mRNA_3093.1	C_umshiu_00001_mRNA_219.1	-
GF0022133	1	1	0	Hypothetical protein (1); Alpha-1,4-glucan phosphorylase (1)	[GO:0000184 molecular_function] (2); carbohydrate metabolic process [GO:00005975 biological_process] (2)	Glycosyl transferase, family 35 [IPR008311] (2)	scaffold_4_mRNA_3087.1	C_umshiu_00001_mRNA_212.1	-
GF0022132	1	1	0	Hypothetical protein (2)	-	scaffold_4_mRNA_3084.1	C_umshiu_00001_mRNA_209.1	-	

ID	Num. in <i>C. clementine</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0022131	1	1	0	Glycosyltransferase family 61 protein (2)	transferease activity, transferring glycosyl groups [GO:0016757]; molecular function (2)	Glycosyltransferase 61 [IPR007657] (1); uncharacterised [IPR007657] (1)	scaffold_4_mRNA_3071.1	<i>C. unshiu</i> _00001_mRNA_196.1	-
GF0022130	1	1	0	Hypothetical protein (2)	transcription factor activity, sequence-specific DNA binding [GO:0003700]; molecular function (2); transcription, DNA-templated [GO:0003555 biological_process] (1); DNA binding [GO:0003677]; molecular function (1)	Glycosyltransferase AER61; uncharacterised [IPR007657] (1)	scaffold_4_mRNA_3069.1	<i>C. unshiu</i> _00001_mRNA_194.1	-
GF0022129	1	1	0	AP2/ERF domain transcription factor (2)	AP2/ERF domain [IPR001471] (1); DNA-binding domain [IPR016177] (1); AP2/ERF transcription factor ERF/PT16 [IPR017392] (1)	AP2/ERF domain [IPR001471] (1); DNA-binding domain [IPR016177] (1); AP2/ERF transcription factor ERF/PT16 [IPR017392] (1)	scaffold_4_mRNA_3055.1	<i>C. unshiu</i> _00001_mRNA_180.1	-
GF0022126	1	1	0	Phosphate transporter PHO1-like protein (2)	integral component of membrane [GO:0016021 cellular_component] (2); cell wall biogenesis [GO:0042546 biological_process] (2); membrane [GO:0016020 cellular_component] (2); Galactoside 2-alpha-L-fucosyltransferase activity [GO:0008107]; molecular function (2)	EXS, C-terminal [IPR004342] (2); SPX domain [IPR004331] (2); PHO1, SPX domain [IPR034092] (1)	scaffold_4_mRNA_3044.1	<i>C. unshiu</i> _00001_mRNA_168.1	-
GF0022125	1	1	0	Galactoside 2-alpha-L-fucosyltransferase (2)	Xyloglucan fucosyltransferase activity [GO:0008107]; molecular function (2)	Xyloglucan fucosyltransferase [IPR004938] (2)	scaffold_4_mRNA_3040.1	<i>C. unshiu</i> _00001_mRNA_164.1	-
GF0022124	1	1	0	Expansin (2)	plant-type cell wall organization [GO:0008644 biological_process] (2); extracellular region [GO:0005576 cellular_component] (2)	Expansin [IPR001181] (2); expansin [IPR002963] (2); Expansin/pollen allergen DBBB domain [IPR007112]; scaffold_4_mRNA_304.1	C_unshiu_00299_mRNA_10.1	-	-
GF0022122	1	1	0	Appr-1-p processing enzyme family protein (2)	nucleic acid binding [GO:0003676]; molecular function (2); ATP binding [GO:0005524 molecular function] (2)	Macro domain [IPR002589] (2); P-loop containing nucleoside triphosphatase [IPR007417] (2); DFAD/DEAH box helicase domain [IPR011545] (2)	scaffold_4_mRNA_303.1	<i>C. unshiu</i> _00299_mRNA_9.1	-
GF0022121	1	1	0	Hypothetical protein (2)	molecular function (2)	scaffold_4_mRNA_3009.1	<i>C. unshiu</i> _00001_mRNA_132.1	-	-
GF0022120	1	1	0	Hypothetical protein (2)	molecular function (2)	scaffold_4_mRNA_30.1	<i>C. unshiu</i> _00168_mRNA_39.1	-	-
GF0022118	1	1	0	Hypothetical protein (2)	molecular function (2)	scaffold_4_mRNA_299.1	<i>C. unshiu</i> _00299_mRNA_5.1	-	-
GF0022115	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]; molecular function (2); ATP binding [GO:0005524 molecular function] (2)	S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (2); tRNA methyltransferase, Trm1 [IPR002065] (2)	scaffold_4_mRNA_2976.1	<i>C. unshiu</i> _00001_mRNA_97.1	-
GF0022114	1	1	0	Hypothetical protein (2)	tRNA (guanine-N2)-methyltransferase activity [GO:0004809]; molecular function (2); tRNA processing, biotinylation [GO:0006810 biological_process] (2); RNA binding [GO:0001723 molecular function] (2)	S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (2); tRNA methyltransferase, Trm1 [IPR002065] (2)	scaffold_4_mRNA_296.1	<i>C. unshiu</i> _00299_mRNA_2.1	-
GF0022112	1	1	0	Nitrate transporter 1.7 (2)	transport [GO:0006810 biological_process] (2); membrane [GO:0016020 cellular_component] (2); transporter activity [GO:0005215 molecular function] (2)	Major facilitator superfamily domain [IPR020046] (2); Proton-dependent oligopeptide transporter family [IPR000109] (2)	scaffold_4_mRNA_2948.1	<i>C. unshiu</i> _00001_mRNA_70.1	-
GF0022111	1	1	0	Homoserine dehydrogenase (2)	cellular amino acid metabolic process [GO:0006520 biological_process] (2); oxidation-reduction process [GO:005114 biological_process] (2)	Homoserine dehydrogenase, catalytic protein binding [GO:0005515 molecular function] (2); ADP binding [IPR001342]; GH3bathate S-transferase, C-terminal-like [IPR010987]; scaffold_4_mRNA_2937.1	C_unshiu_00001_mRNA_59.1	-	-
GF0022110	1	1	0	TIR-NBS-LRR disease resistance protein (2)	structural constituent of ribosome [GO:0003735 molecular function] (2); translation [GO:0006412 biological process] (2); intracellular membrane [GO:0005524 molecular function] (2); protein binding [GO:0005151 molecular function] (2)	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat, typical subtype [IPR003591] (2); TIR domain [IPR001012]; NB-ARC scaffold_4_mRNA_2923.1	C_unshiu_00001_mRNA_45.1	-	-
GF0022109	1	1	0	Hypothetical protein (1); Ribosomal protein S26 (1)	ribosomal S26e [IPR000892] (2); structural constituent of ribosome [GO:0003735 molecular function] (2); translation [GO:0006412 biological process] (2); intracellular membrane [GO:0005524 molecular function] (2); ribosome [GO:0005840 cellular component] (2)	Ribosomal protein S26e [IPR000892] (2); scaffold_4_mRNA_292.1	<i>C. unshiu</i> _01756_mRNA_8.1	-	-
GF0022108	1	1	0	Probably inactive leucine-rich repeat receptor-like protein kinase (2)	protein kinase activity [GO:0004672 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (2); protein binding [GO:0005524 molecular function] (2); protein binding [GO:0005151 molecular function] (2)	Protein kinase-like domain [IPR011009] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Protein kinase domain [IPR000719] (2); Serine-threonine-tyrosine-protein kinase domain [IPR000718] (2); Serine-threonine-tyrosine-protein kinase domain [IPR000719] (2); Leucine-rich repeat [IPR001611] (2); Serine-threonine-tyrosine-protein kinase domain [IPR000718] (2); Serine-threonine-tyrosine-protein kinase domain [IPR000719] (2); Concavocalin A-like lectin/glycanase domain [IPR013320] (1)	scaffold_4_mRNA_2918.1	<i>C. unshiu</i> _00001_mRNA_40.1	-
GF0022107	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2); RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular function] (2)	Ribonuclease H domain [IPR002156] (2); Ribonuclease H1, N-terminal domain [IPR011320] (2); Ribonuclease H-like domain [IPR021337] (2)	scaffold_4_mRNA_2902.1	<i>C. unshiu</i> _00001_mRNA_23.1	-
GF0022106	1	1	0	Putative mns H family protein (2)	transmembrane transporter activity [GO:0022857 molecular function] (2); membrane [GO:0006020 cellular component] (2); integral component of membrane [GO:0016021 cellular component] (2)	WAT1-related protein [IPR030184] (2); EamA domain [IPR000620] (2); Prolamin-like domain [IPR008502] (1)	scaffold_4_mRNA_2888.1	<i>C. unshiu</i> _00001_mRNA_6.1	-
GF0022105	1	1	0	Hypothetical protein (2)	transmembrane transporter activity [GO:0022857 molecular function] (2); membrane [GO:0006020 cellular component] (2); integral component of membrane [GO:0016021 cellular component] (2)	WAT1-related protein [IPR030184] (2); EamA domain [IPR000620] (2); Prolamin-like domain [IPR008502] (1)	scaffold_4_mRNA_2880.1	<i>C. unshiu</i> _00004_mRNA_11.1	-
GF0022104	1	1	0	Hypothetical protein (2)	transmembrane transporter activity [GO:0022857 molecular function] (2); membrane [GO:0006020 cellular component] (2); integral component of membrane [GO:0016021 cellular component] (2)	WAT1-related protein [IPR030184] (2); EamA domain [IPR000620] (2); Prolamin-like domain [IPR008502] (1)	scaffold_4_mRNA_2875.1	<i>C. unshiu</i> _00004_mRNA_16.1	-
GF0022103	1	1	0	Nodulin M21/Eam-A-like transporter family protein (2)	integral component of membrane [GO:0016021 cellular component] (2); transmembrane transporter activity [GO:0022857 molecular function] (2); membrane [GO:0006020 cellular component] (2); home binding [GO:00020037 molecular function] (2); iron ion binding [GO:0005506 molecular function] (2); oxoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular function] (2); oxireductase activity [GO:0035514 biological process] (2)	EamA domain [IPR000620] (2); WAT1-related protein [IPR030184] (2)	scaffold_4_mRNA_2871.1	<i>C. unshiu</i> _00004_mRNA_20.1	-
GF0022102	1	1	0	Cytochrome P450 8A2(A) (2)	cytochrome P450 [IPR001128] (2); cytochrome P450, conserved site [IPR017972] (2); Cytochrome P450, E-class, group I [IPR002401] (2)	Cytochrome P450 [IPR001128] (2); Cytochrome P450, conserved site [IPR017972] (2); Cytochrome P450, E-class, group I [IPR002401] (2)	scaffold_4_mRNA_285.1	<i>C. unshiu</i> _01756_mRNA_4.1	-
GF0022101	1	1	0	HD domain-containing metal-dependent phosphohydrolase family protein isoform 0 (1); HD domain-containing metal-dependent phosphohydrolase family protein isoform 2 (1)	HD domain [IPR006674] (2); HD/PDEase domain [IPR003607] (2)	HD domain [IPR006674] (2); HD/PDEase domain [IPR003607] (2)	scaffold_4_mRNA_2849.1	<i>C. unshiu</i> _00004_mRNA_43.1	-
GF0022099	1	1	0	Glabrous 1 (1); Hypothetical protein (1)	DNA binding [GO:0003677 molecular function] (2)	SANT/Mb domain [IPR001005] (2); Myb-like domain [IPR017877] (1); Myb domain [IPR017930] (1); Homeobox domain-like [IPR000957] (1); Homeodomain-like [IPR000957] (1)	scaffold_4_mRNA_2840.1	<i>C. unshiu</i> _00004_mRNA_51.1	-
GF0022098	1	1	0	Hypothetical protein (2)	pyroglutamyl-peptidase activity [GO:0016920 molecular function] (2); cellular component [2]; proteolysis [GO:0006529 molecular function] (2)	Pyroglutamyl-peptidase I [IPR001516] (2); Pyroglutamyl-peptidase II [IPR016125] (2); Pyroglutamyl peptidase-like L, Cys active site [IPR033694] (1)	scaffold_4_mRNA_284.1	<i>C. unshiu</i> _01756_mRNA_3.1	-
GF0022096	1	1	0	Pyroglutamyl-carboxylate peptidase family protein (2)	cytosol [GO:0005829 cellular component] (2); proteolysis [GO:0006508 biological process] (2)	Peptidase C15, pyroglutamyl peptidase I [IPR000316] (2); Peptidase C15, pyroglutamyl peptidase-like L, Cys active site [IPR033694] (1)	scaffold_4_mRNA_2819.1	<i>C. unshiu</i> _00004_mRNA_69.2	-
GF0022095	1	1	0	UDP-N-acetylglucosamine--N-acetylmannosyl-phosphoryl-N-acucaprenol N-acetylglucosamine transferase isoform 3 (2)	GTP binding [GO:0005525 molecular function] (2); intracellular cellular component [2]; small GTPase mediated signal transduction [GO:0007264 biological process] (2)	Small GTPase superfamily, ARF type [IPR024156] (2); Signal recognition particle, beta subunit [IPR005622 cellular component] (2); small GTPase mediated signal transduction [GO:0007264 biological process] (2)	scaffold_4_mRNA_2813.1	<i>C. unshiu</i> _00004_mRNA_77.1	-
GF0022094	1	1	0	Signal recognition particle receptor subunit beta (2)	Small GTPase superfamily, ARF type [IPR024156] (2); Signal recognition particle receptor, beta subunit [IPR005622 cellular component] (2); small GTPase mediated signal transduction [GO:0007264 biological process] (2)	Signal recognition particle receptor, beta subunit [IPR005622 cellular component] (2); small GTPase mediated signal transduction [GO:0007264 biological process] (2)	scaffold_4_mRNA_2812.1	<i>C. unshiu</i> _00004_mRNA_78.1	-
GF0022091	1	1	0	Hypothetical protein (2)	carbon-sulfur lyase activity [GO:0016842 molecular function] (1); catalytic activity [GO:0003824 molecular function] (1)	Pyridoxal phosphate-dependent transferase, subdomain 2 [IPR015422] (1); Pyridoxal phosphate-dependent transferase [IPR015424] (1); Alliinase, C-terminal-like [IPR015445] (1)	scaffold_4_mRNA_2793.1	<i>C. unshiu</i> _00004_mRNA_95.1	-
GF0022090	1	1	0	Hypothetical protein (2)	plant of unknown function DUF4228 [IPR023321] (2)	plant of unknown function DUF4228 [IPR023321] (2)	scaffold_4_mRNA_2791.1	<i>C. unshiu</i> _00004_mRNA_97.1	-
GF0022089	1	1	0	Hypothetical protein (2)	plant [IPR023321] (2)	plant [IPR023321] (2)	scaffold_4_mRNA_279.1	<i>C. unshiu</i> _00058_mRNA_74.1	-

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0022088	1	1	0 Hypothetical protein (2)		clathrin adaptor complex [GO:0030131]; cellular_component [1]; intracellular protein transport [GO:0006858]; biological_process [2]; transport [GO:0006730]; biological_process [2]; protein phosphorylation [GO:0006468]; biological_process [2]; protein kinase activity [GO:0004672]; molecular_function [2]; vesicle-mediated transport [GO:0016192]; biological_process [2]; ATP binding [GO:0005524 molecular_function] (2)	Serine-threonine-protein kinase, active site [IPR008271] (2); Protein kinase, ATP binding site [IPR017441] (2); Longin-like domain [IPR011022] (2); Protein kinase-like domain [IPR011009] (2); Clathrin adaptor, minicell [IPR022775] (2); Clathrin adaptor, mu subunit, conserved site [IPR012340] (2); AP complex, mu sigma subunit [IPR022775] (2); Protein kinase domain [IPR000719] (2); Mu homology domain [IPR028365] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1); Concavalin A-like lectin/glycanase domain [IPR013352] (1)	scaffold_4_mRNA_2776.1	C_unshiu_00004_mRNA_114.1	-
GF0022087	1	1	0 Ribosomal protein S21 family protein (2)		ribosome [GO:0005840]; cellular_component [2]; structural constituent of ribosome [GO:0003735 molecular_function] (2); translation [GO:0006412 biological_process] (2)	Ribosomal protein S21 [IPR001911] (2)	scaffold_4_mRNA_2751.1	C_unshiu_00004_mRNA_140.1	-
GF0022086	1	1	0 Protein terminal curl1 (2)		nucleic acid binding [GO:0003676 molecular_function] (2); nucleotide binding [GO:0000166 molecular_function] (1)	RNA recognition motif domain [IPR000594] (2); Terminal EAR-like, RNA recognition motif 3 [IPR034458] (1); Me2/Met2-like, C-terminal RNA recognition motif [IPR007201] (1); RNA recognition motif 2 [IPR007201] (1); Me2/Met2-like, 2-hydroxy-3-hydroxyl nucleotide-binding alpha/beta phat domain [IPR012677] (1)	scaffold_4_mRNA_2729.1	C_unshiu_00004_mRNA_165.1	-
GF0022084	1	1	0 E3 ubiquitin-protein ligase mib1 (2)		protein binding [GO:0005515 molecular_function] (2)	Ankyrin repeat [IPR002110] (2); Ankyrin repeat-containing domain [IPR020683] (2)	scaffold_4_mRNA_2686.1	C_unshiu_00010_mRNA_37.1	-
GF0022083	1	1	0 Putative F-box protein Atg67623 (2)		protein binding [GO:0005515 molecular_function] (1)	Tetratrico-peptide-like helical domain [IPR027474] (2); F-box domain [IPR000410] (1)	scaffold_4_mRNA_2681.1	C_unshiu_00010_mRNA_41.1	-
GF0022082	1	1	0 Ribosome silencing factor (2)			Protein kinase/Ribosomal silencing factor Rsf [IPR004394] (2)	scaffold_4_mRNA_2680.1	C_unshiu_00010_mRNA_42.1	-
GF0022081	1	1	0 Putative mitochondrial chaperone bes1 (2)		ATP binding [GO:0005524 molecular_function] (1)	AAA+ATPase domain [IPR003591] (1); AAA-type ATPase, N-terminal domain [IPR025753] (1); P-loop containing nucleic acid sequence motif [IPR027474] (1); AAA-type ATPase, N-terminal domain [IPR003591] (1); ATase, AAA-type, conserved site [IPR003590] (1) Rubber elongation factor [IPR068802] (2)	scaffold_4_mRNA_2670.1	C_unshiu_00010_mRNA_53.1	-
GF0022078	1	1	0 Small rubber particle protein (2)				scaffold_4_mRNA_2639.1	C_unshiu_00010_mRNA_82.1	-
GF0022077	1	1	0 Squamova promoter-binding-like protein (2)		nucleus [GO:0005634 cellular_component] (2); DNA binding [GO:0006767 molecular_function] (2); DNA binding [GO:0006677 molecular_function] (2)	Transcription factor, SBP-box [IPR004333] (2)	scaffold_4_mRNA_2627.1	C_unshiu_00010_mRNA_98.1	-
GF0022076	1	1	0 Squamova promoter-binding-like protein (2)		16 (2)	Transcription factor, SBP-box [IPR004333] (2)	scaffold_4_mRNA_2610.1	C_unshiu_00010_mRNA_113.1	-
GF0022075	1	1	0 ATG27990 protein (2)				scaffold_4_mRNA_2603.1	C_unshiu_00010_mRNA_120.1	-
GF0022074	1	1	0 NAC-domain-containing protein 29 (2)		regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); DNA binding [GO:0005877 molecular_function] (2)	NAC domain [IPR003441] (2)	scaffold_4_mRNA_2584.1	C_unshiu_00551_mRNA_17.1	-
GF0022072	1	1	0 Hypothetical protein (2)			Protein kinase-like domain [IPR011009] (1)	scaffold_4_mRNA_2552.1	C_unshiu_00015_mRNA_95.1	-
GF0022071	1	1	0 Methylsterase (2)			Alpha/Beta hydrolase fold [IPR029058] (2); Alpha/beta hydrolase fold-1 [IPR000073] (2)	scaffold_4_mRNA_2546.1	C_unshiu_00015_mRNA_89.1	-
GF0022070	1	1	0 Glucosamine/galactosamine-6-phosphate isomerase family protein (2)		carbohydrate metabolic process [GO:000975 biological_process] (2); 6-phosphogluconolactonase activity [GO:0007057 molecular_function] (2); pentose-phosphate shunt [GO:0006989 biological_process] (2)	6-phosphogluconolactonase, DevB-type [IPR059590] (2); Glucosamine/galactosamine-6-phosphate isomerase [IPR006148] (2)	scaffold_4_mRNA_2538.2	C_unshiu_00015_mRNA_81.3	-
GF0022069	1	1	0 Senescence associated gene 20, putative (2)		protein dimerization activity [GO:0046983 molecular_function] (2); nucleus [GO:0005634 cellular_component] (2); DNA binding [GO:0006677 molecular_function] (2); regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); transcription factor activity, sequence-specific DNA [GO:0009977 molecular_function] (1); positive regulation of transcription from RNA polymerase II promoter [GO:0009944 basal_promoter] (1); MAPK cascade [GO:0000165 biological_process] (1)	NTF2-like domain [IPR032710] (2); Wound-induced protein, Win1 [IPR009798] (2)	scaffold_4_mRNA_253.1	C_unshiu_00058_mRNA_47.1	-
GF0022068	1	1	0 Developmental protein SEPALLATA 2 (2)		heme binding [GO:0002037 molecular_function] (2); iron ion binding [GO:000506 molecular_function] (2); oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016704 molecular_function] (2); oxidation-reduction process [GO:0005114 biological_process] (1)	Transcription factor, MADS-box [IPR02100] (2); Transcription factor, K-box [IPR02487] (2); MADS MEF2-like [IPR033896] (1)	scaffold_4_mRNA_2524.1	C_unshiu_00015_mRNA_66.1	-
GF0022067	1	1	0 Cytochrome P450 73A1 (2)		cytochrome P450 polypeptide II promoter [GO:0009444 basal_promoter] (1); MAPK cascade [GO:0000165 biological_process] (1)	Cytochrome P450, E-class, group I [IPR00240] (2); Cytochrome P450 [IPR001128] (2); Cytochrome P450, conserved site [IPR017972] (1)	scaffold_4_mRNA_2518.1	C_unshiu_00015_mRNA_58.1	-
GF0022066	1	1	0 Cytochrome P450 73A1 (2)		heme binding [GO:0002037 molecular_function] (2); iron ion binding [GO:000506 molecular_function] (2); oxidation-reduction process [GO:0005114 biological_process] (2)	Cytochrome P450 [IPR001129] (2); Cytochrome P450, E-class, group I [IPR00240] (2); Cytochrome P450 [IPR001128] (2); Cytochrome P450, conserved site [IPR017972] (2)	scaffold_4_mRNA_2516.1	C_unshiu_00015_mRNA_56.1	-
GF0022065	1	1	0 Hypothetical protein (2)				scaffold_4_mRNA_2514.1	C_unshiu_00015_mRNA_54.1	-
GF0022064	1	1	0 Hypothetical protein (2)		nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_4_mRNA_2507.1	C_unshiu_00023_mRNA_64.1	-
GF0022063	1	1	0 Putative N-acetyltransferase ycf52 (2)		N-acetyl-CoA N-acetyltransferase [IPR016156] (2); GNAT domain [IPR02812] (2)	Acyl-CoA N-acetyltransferase [IPR016156] (2); GNAT domain [IPR02812] (2)	scaffold_4_mRNA_2478.1	C_unshiu_00310_mRNA_19.1	-
GF0022062	1	1	0 Metal-dependent phosphohydrolase (2)			HD domain [IPR006674] (2); HD/PEDE domain [IPR003607] (2)	scaffold_4_mRNA_2455.1	C_unshiu_00353_mRNA_4.1	-
GF0022061	1	1	0 Hypothetical protein (2)			HD domain [IPR006674] (2); HD/PEDE domain [IPR003607] (2)	scaffold_4_mRNA_2453.1	C_unshiu_00353_mRNA_6.1	-
GF0022058	1	1	0 Allene oxide cyclase (2)		isomerase activity [GO:0016853 molecular_function] (1); chloroplast [GO:0009507 cellular_component] (1)	Allene oxide cyclase [IPR009410] (1)	scaffold_4_mRNA_2415.1	C_unshiu_00099_mRNA_21.1	-
GF0022055	1	1	0 Hypothetical protein (2)				scaffold_4_mRNA_2369.1	C_unshiu_00039_mRNA_72.1	-
GF0022054	1	1	0 Transcription factor YMB1R1 (1); Hypothetical protein (1)		DNA binding [GO:0003677 molecular_function] (2)	Myb domain [IPR017930] (2); Myb domain, plant [IPR006447] (2); SANT/MYb domain [IPR001005] (2); SANT domain [IPR017884] (2); Homeobox domain [IPR009057] (1); Homeodomain [IPR009057] (1); Armadillo-like helical [IPR011989] (1)	scaffold_4_mRNA_2349.1	C_unshiu_00039_mRNA_54.1	-
GF0022053	1	1	0 Hypothetical protein (2)		tRNA processing [GO:0008033 biological_process] (2); RNA binding [GO:0003723 molecular_function] (2)	Filibrillin, conserved site [IPR02013] (2); S-adenosyl-L-methionine-dependent methyletransferase [IPR029061] (2); Filibrillin [IPR006992] (2)	scaffold_4_mRNA_2349.1	C_unshiu_00039_mRNA_54.1	-
GF0022052	1	1	0 RRNA 2'-O-methyltransferase fibrillarin (2)		tRNA processing [GO:0008033 biological_process] (2); methyletransferase activity [GO:0008168 molecular_function] (2)		scaffold_4_mRNA_2321.1	C_unshiu_00039_mRNA_28.1	-
GF0022049	1	1	0 Glutathione transferase (2)		protein binding [GO:0005515 molecular_function] (2)	Glutathione S-transferase, N-terminal [IPR004045] (2); Glutathione S-transferase, C-terminal-like [IPR010987] (2); Thiodioxidine-like fold [IPR012336] (2); Glutathione S-transferase, C-terminal [IPR004046] (2)	scaffold_4_mRNA_2293.1	C_unshiu_00460_mRNA_24.1	-
GF0022048	1	1	0 Hypothetical protein (2)		protein binding [GO:0005515 molecular_function] (2)	Tetraspanine-like helical domain [IPR01199] (2); Tetraspanopeptide repeat [IPR019734] (2)	scaffold_4_mRNA_2292.1	C_unshiu_00460_mRNA_21.1	-
GF0022047	1	1	0 Abscisic acid receptor PYL8 (2)			Polyketide cyclase/dehydrase [IPR01987] (2); START-like domain [IPR023935] (2)	scaffold_4_mRNA_229.1	C_unshiu_00012_mRNA_108.1	-
GF0022046	1	1	0 Putative ycf19 (2)		membrane [GO:0016020 cellular_component] (2)	CCB3/Ycgf1 [IPR003425] (2)	scaffold_4_mRNA_2262.1	C_unshiu_00349_mRNA_21.1	-
GF0022045	1	1	0 DUF177 domain protein (2)			Protein of unknown function DUF177 [IPR03772] (1); Large ribosomal RNA subunit accumulation protein YceD [IPR03772] (1)	scaffold_4_mRNA_2259.1	C_unshiu_00349_mRNA_24.1	-

ID	Num in <i>C. clementiae</i>	Num in <i>C. umshiu</i>	Num in <i>P. trifolia</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifolia</i>
GF0022044	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524 molecular function] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Helicase superfamily 1/2, ATP-binding domain [IPR014001] (2); SNF2-related, N-terminal domain [IPR000330] (2)	scaffold_4_mRNA_225.1	C_umshiu_00012_mRNA_104.1	-
GF0022043	1	1	0	Hypothetical protein (2)	Transcription initiation factor TFIID subunit 9 (1); Putative transcription initiation factor TFIID subunit 9-like (1)	DNA-templated transcription, initiation [GO:0006352 biological process] (2); protein heterodimerization activity [GO:046982 molecular function] (2)	scaffold_4_mRNA_2236.1	C_umshiu_00130_mRNA_27.1	-
GF0022042	1	1	0	Hypothetical protein (2)	nucleus [GO:0005634 cellular component] (2); histone lysine methyltransferase [GO:0034968 biological process] (2); zinc ion binding [GO:0008270 molecular function] (2); histone-lysine N-methyltransferase activity [GO:0018024 molecular function] (2)	Histone-fold [IPR009072] (2); Transcription initiation factor TAFI11 [IPR03162] (2)	scaffold_4_mRNA_2229.1	C_umshiu_00130_mRNA_34.1	-
GF0022041	1	1	0	Histone-lysine N-methyltransferase SUV42 (2)	cellular component [2]; histone lysine methyltransferase [GO:0034968 biological process] (2); zinc ion binding [GO:0008270 molecular function] (2); histone-lysine N-methyltransferase activity [GO:0018024 molecular function] (2)	Pre-SET domain [IPR007728] (2); WIVLD domain [IPR018848] (2); Pre-SET zinc-binding sub-group [IPR030366] (1)	scaffold_4_mRNA_2226.1	C_umshiu_00130_mRNA_36.1	-
GF0022040	1	1	0	Cysteine-rich repeat secretory protein 3 (2)	protein binding [GO:0005515 molecular function] (2)	Gm2-homologous domain [IPR002902] (2)	scaffold_4_mRNA_2225.1	C_umshiu_00130_mRNA_37.1	-
GF0022039	1	1	0	General transcription factor-like zinc finger protein, putative (2)	-	-	scaffold_4_mRNA_2212.1	C_umshiu_00130_mRNA_50.1	-
GF0022038	1	1	0	F-box protein interaction domain protein (2)	protein binding [GO:0005515 molecular function] (2)	F-box associated domain, type 1 [IPR006527] (2); F-box domain [IPR001810] (2); Quinoprotein amine dehydrogenase, beta chain-like [IPR011044] (1)	scaffold_4_mRNA_2209.1	C_umshiu_00130_mRNA_52.1	-
GF0022035	1	1	0	GroES-like zinc-binding dehydrogenase family protein isoform 3 (2)	zinc ion binding [GO:0008270 molecular function] (2); oxidation-reduction activity [GO:0055114 biological process] (2); oxidoreductase activity [GO:0016491 molecular function] (2)	ferric iron binding [GO:0008199 molecular function] (2); cellular iron ion homeostasis [GO:0006879 biological process] (2); iron ion transport [GO:0006626 biological process] (2)	scaffold_4_mRNA_2191.1	C_umshiu_00209_mRNA_37.1	-
GF0022033	1	1	0	Ferritin (2)	-	Alcohol dehydrogenase, zinc-type, conserved site [IPR002728] (2); Alcohol dehydrogenase, zinc-type, conserved site [IPR016040] (2); Alcohol dehydrogenase superfamily [IPR020085] (1)	scaffold_4_mRNA_218.1	C_umshiu_00012_mRNA_97.1	-
GF0022032	1	1	0	Multiple inositol polyphosphate phosphatase 1 (2)	acid phosphatase activity [GO:0003993 molecular function] (2); phosphatase activity [GO:0016791 molecular function] (2)	Iron(II) binding [IPR000331] (2); Ferritin, conserved site [IPR014034] (2); Ferritin-like superfamily [IPR009078] (2); Ferritin-related [IPR012347] (2); Ferritin-like dimer domain [IPR009040] (1); Ferritin-like dimer domain [IPR009040] (1)	scaffold_4_mRNA_217.1	C_umshiu_00012_mRNA_96.1	-
GF0022031	1	1	0	Cytochrome P450, family 87, subfamily A, polypeptide 6, putative (2)	oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular function] (2); oxidation-reduction process [GO:0055114 biological process] (2); heme binding [GO:0020307 molecular function] (2); iron ion binding [GO:0005506 molecular function] (2)	Histidine phosphatase superfamily, clade-2 [IPR008560] (2); Histidine acid phosphatase, eukaryotic [IPR016274] (2); Histidine phosphatase superfamily [IPR029033] (2)	scaffold_4_mRNA_215.1	C_umshiu_00020_mRNA_33.1	-
GF0022030	1	1	0	Cytochrome P450, family 87, subfamily A, polypeptide 6, putative (2)	oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular function] (2); iron ion binding [GO:0005506 molecular function] (2); oxidation-reduction process [GO:0055114 biological process] (2); heme binding [GO:0020307 molecular function] (2); iron ion binding [GO:0005506 molecular function] (2)	Cytochrome P450 [IPR001128] (2); Cytochrome P450, conserved site [IPR017972] (2); Cytochrome P450, E-class, group I [IPR02401] (2)	scaffold_4_mRNA_215.1	C_umshiu_00020_mRNA_31.1	-
GF0022029	1	1	0	Cytochrome P450, family 87, subfamily A, polypeptide 6, putative (2)	oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular function] (2); oxidation-reduction process [GO:0055114 biological process] (2); heme binding [GO:0005506 molecular function] (2); heme binding [GO:0020307 molecular function] (2); iron ion binding [GO:0005506 molecular function] (2)	Cytochrome P450 [IPR001128] (2); Cytochrome P450, conserved site [IPR017972] (2); Cytochrome P450, E-class, group I [IPR02401] (2)	scaffold_4_mRNA_2155.1	C_umshiu_00020_mRNA_30.1	-
GF0022026	1	1	0	Putative membrane lipoprotein (2)	catalytic activity [GO:0003824 molecular function] (2)	Phosphoesterase [IPR007312] (2); Alkaline phosphatase-like, alpha/beta/alpha [IPR017849] (1); Alkaline phosphatase-like, core domain [IPR017850] (1)	scaffold_4_mRNA_2139.1	C_umshiu_00020_mRNA_22.1	-
GF0022025	1	1	0	Phospholipase C 3 (2)	Peptidase-N-(N-acetyl-beta-glucoamino)sparagine amidase A (2)	Peptidase-N-(N-acetyl-beta-glucoamino)sparagine amidase A [IPR021102] (2)	scaffold_4_mRNA_2135.1	C_umshiu_00020_mRNA_19.1	-
GF0022024	1	1	0	Peptide-N-(N-acetyl-beta-glucosaminyl)asparagine amidase A (2)	-	-	scaffold_4_mRNA_2131.1	C_umshiu_00012_mRNA_93.1	-
GF0022023	1	1	0	Hypothetical protein (2)	-	Ankyrin repeat [IPR002110] (2); Major sperm protein (MSP) domain [IPR00335] (2); PapD-like [IPR008962] (2); Ankyrin repeat-containing domain [IPR020683] (2); Immunoglobulin-like domain [IPR032661] (1)	scaffold_4_mRNA_2128.1	C_umshiu_00004_mRNA_24.1	-
GF0022021	1	1	0	Ankyrin repeat RF-like protein, putative (2)	protein binding [GO:0005515 molecular function] (2)	Peptidase family A1 domain [IPR03121] (2); Aspartic peptidase domain [IPR021109] (2); Aspartic peptidase family A1 family [IPR001461] (2); Xylose inhibitor, N-terminal [IPR032661] (1)	scaffold_4_mRNA_212.1	C_umshiu_00012_mRNA_92.1	-
GF0022020	1	1	0	Hypothetical protein (2)	aspartic-type endopeptidase activity [GO:0004190 molecular function] (2); proteolysis [GO:0006508 biological process] (2)	ELMO domain [IPR006816] (2)	scaffold_4_mRNA_2109.1	C_umshiu_00020_mRNA_7.1	-
GF0022017	1	1	0	Hypothetical protein (2)	transmembrane transport [GO:0005085 biological process] (2); drug transmembrane transporter activity [GO:001238 molecular function] (2); antigen processing [GO:0015297 molecular function] (2); membrane [GO:0016020 cellular component] (2); drug transmembrane transport [GO:0006855 biological process] (2)	Multi antimicrobial extrusion protein [IPR002528] (2)	scaffold_4_mRNA_2077.1	C_umshiu_01238_mRNA_6.1	-
GF0022016	1	1	0	MatE family protein, expressed (2)	-	-	scaffold_4_mRNA_2074.1	C_umshiu_00700_mRNA_18.1	-
GF0022015	1	1	0	ELMO domain-containing protein 2 (2)	ELMO domain [IPR006816] (2)	ELMO domain [IPR006816] (2)	scaffold_4_mRNA_2071.1	C_umshiu_00700_mRNA_13.1	-
GF0022014	1	1	0	Pollen Ole e 1 allergen and extensin family protein (2)	-	-	scaffold_4_mRNA_2071.1	C_umshiu_00012_mRNA_87.1	-
GF0022013	1	1	0	Hypothetical protein (2)	mRNA splicing, via spliceosome [GO:0000398 biological process] (2); nucleic acid binding [GO:0003676 molecular function] (2); RNA binding [GO:000872 molecular function] (2); U2AF [GO:0089707 cell], component [2]; nucleotide binding [GO:000166 molecular function] (1)	RNA recognition motif domain, eukaryote [IPR003954] (2); U2 auxiliary factor small subunit [IPR001415] (2); RNA recognition motif domain [IPR005084] (2); Nucleotide-binding alpha/beta-plastid domain [IPR012677] (1)	scaffold_4_mRNA_2067.1	C_umshiu_00700_mRNA_11.1	-
GF0022011	1	1	0	NAC domain-containing protein 67 (1); NAC protein 4 (1)	regulation of transcription, DNA-templated [GO:0006355 biological process] (2); DNA binding [GO:0003677 molecular function] (2)	NAC domain [IPR003441] (2)	scaffold_4_mRNA_2061.1	C_umshiu_00700_mRNA_4.1	-
GF0022010	1	1	0	Hypothetical protein (2)	-	-	scaffold_4_mRNA_2060.1	C_umshiu_00700_mRNA_3.1	-
GF0022009	1	1	0	GDSL esterase/lipase LTL1 (2)	hydrolase activity, acting on ester bonds [GO:0016788 molecular function] (2)	GDSL, lipase esterase [IPR001087] (2); SGN1 hydrolase-type esterase domain [IPR013X30] (2)	scaffold_4_mRNA_2046.1	C_umshiu_00250_mRNA_41.1	-
GF0022008	1	1	0	Hypothetical protein (2)	-	Alpha/Beta hydrolase fold [IPR029058] (2)	scaffold_4_mRNA_2039.1	C_umshiu_00250_mRNA_33.1	-
GF0022006	1	1	0	Hypothetical protein (2)	-	Domain of unknown function DUF4283 [IPR025588] (2)	scaffold_4_mRNA_2024.1	C_umshiu_00250_mRNA_13.1	-
GF0022005	1	1	0	Hypothetical protein (2)	cysteine-type peptidase activity [GO:0008234 molecular function] (2); proteolysis [GO:0006508 biological process] (2)	Zinc knuckle CX2C4H4X4C [IPR025836] (2)	scaffold_4_mRNA_2023.1	C_umshiu_00250_mRNA_12.1	-
GF0022004	1	1	0	Hypothetical protein (2)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (2)	scaffold_4_mRNA_2019.1	C_umshiu_00250_mRNA_10.1	-	
GF0022003	1	1	0	Hypothetical protein (2)	transporter activity [GO:0000215 molecular function] (1); membrane transport [GO:0006810 biological process] (1)	Proton-dependent oligopeptide transporter family [IPR00109] (1)	scaffold_4_mRNA_2017.1	C_umshiu_00250_mRNA_8.1	-
GF0022002	1	1	0	Hypothetical protein (2)	-	-	scaffold_4_mRNA_1992.1	C_umshiu_00886_mRNA_28.1	-
GF0022001	1	1	0	Tetratricopeptide repeat-like superfamily protein, putative (2)	regulation of transcription, DNA-templated [GO:0006355 biological process] (2); DNA binding [GO:0003677 molecular function] (2)	Pentatricopeptide repeat [IPR002885] (2)	scaffold_4_mRNA_199.1	C_umshiu_00012_mRNA_78.1	-
GF0022000	1	1	0	Hypothetical protein (2)	-	-	scaffold_4_mRNA_1984.1	C_umshiu_00886_mRNA_20.1	-
GF0021999	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (1)	Ribonuclease H-like domain [IPR012337] (1)	scaffold_4_mRNA_1982.1	C_umshiu_00886_mRNA_18.1	-
GF0021998	1	1	0	Hypothetical protein (2)	-	-	scaffold_4_mRNA_198.1	C_umshiu_00012_mRNA_77.1	-
GF0021997	1	1	0	Hypothetical protein (2)	Transposase, MuDR, plant [IPR004332] (2)	scaffold_4_mRNA_1974.1	C_umshiu_00886_mRNA_10.1	-	
GF0021996	1	1	0	Hypothetical protein (2)	-	-	scaffold_4_mRNA_1953.1	C_umshiu_01260_mRNA_10.1	-

ID	Num in <i>C. clementinae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0021994	1	1	0	Receptor-like kinase plant (2)	ATP binding [GO:0005524 molecular_function] (2); protein kinase activity [GO:0006468 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2); nucleic acid binding [GO:0005676 molecular_function] (1); protein dimerization activity [GO:0046983 molecular_function] (1)	Serine/threonine-protein kinase, active site [IPR008271] (2); Protein kinase, ATP binding site [IPR017441] (2); Protein kinase-like domain [IPR0001099] (2); Protein kinase domain [IPR0000719] (2); Serine/threonine specificity [IPR002290] (1); HAT, C-terminal dimerization domain [IPR008996] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_4_mRNA_1940.1	C_unshiu_00296_mRNA_15.1	-
GF0021993	1	1	0	Hypothetical protein (2)	Chlorophyll A/B binding protein, light-harvesting complex II chlorophyll a/b-binding protein, n-terminal part (1); Chlorophyll A/B binding protein, chloroplastic (1)	Chlorophyll A/B binding protein, plant [IPR01154] (2); Chlорофилл A/B binding protein domain [IPR022329] (2); Chlorophyll A/B binding protein [IPR022796] (2); Ribonuclease H1, N-terminal [IPR011320] (1)	scaffold_4_mRNA_1939.1	C_unshiu_00296_mRNA_14.1	-
GF0021991	1	1	0	Protein NLP2 (2)	Protein NLP2 (2)	RWP-RK domain [IPR003035] (2)	scaffold_4_mRNA_1926.1	C_unshiu_00824_mRNA_3.1	-
GF0021990	1	1	0	Hypothetical protein (2)	Protein NLP2 (2)	scaffold_4_mRNA_1921.1	C_unshiu_00835_mRNA_5.1	-	
GF0021988	1	1	0	Hypothetical protein (2)	Protein NLP2 (2)	scaffold_4_mRNA_1908.1	C_unshiu_00545_mRNA_17.1	-	
GF0021987	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (2)	Zinc finger, BED-type [IPR003656] (2)	scaffold_4_mRNA_1906.1	C_unshiu_00545_mRNA_15.1	-
GF0021985	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 molecular_function] (2)	FAR1 DNA binding domain [IPR004330] (1); FH3/FAR1 family [IPR031052] (1)	scaffold_4_mRNA_1885.1	C_unshiu_00665_mRNA_1.1	-
GF0021984	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 molecular_function] (1)	FAR1 DNA binding domain [IPR004330] (1); FH3/FAR1 family [IPR031052] (1)	scaffold_4_mRNA_1884.1	C_unshiu_00665_mRNA_2.1	-
GF0021982	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 molecular_function] (1)	scaffold_4_mRNA_1876.1	C_unshiu_00665_mRNA_10.1	-	
GF0021980	1	1	0	Nonexpressor of pathogenesis-related protein 1 (2)	base binding [GO:0002037 molecular_function] (2); base ion binding [GO:0005506 molecular_function] (2); oxidation-reduction process [GO:0055114 molecular_function] (2); oxoredoxinase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] (2)	Ankyrin repeat [IPR002110] (2); Ankyrin repeat-containing domain [IPR020683] (2); NPR1/NIM1-like, C-terminal [IPR021094] (2); Regulatory protein NPR, central domain [IPR042428] (1)	scaffold_4_mRNA_1870.1	C_unshiu_02053_mRNA_2.1	-
GF0021979	1	1	0	Flavone synthase II (2)	base binding [GO:0002037 molecular_function] (2); structural constituents of flavones [GO:0003735 molecular_function] (2); translation [GO:0006412 molecular_function] (2); biological_process] (2); intracellular [GO:0005622 molecular_function] (2); ribosome [GO:0005840 cellular_component] (2)	Cytochrome P450, E-class, group I [IPR02401] (2); Cytochrome P450, F-class, group I [IPR02401] (2); ribosomal protein L6 [IPR005568] (2); 60S ribosomal protein L6E [IPR000915] (2); ribosomal protein L2 domain [IPR014722] (2)	scaffold_4_mRNA_1840.1	C_unshiu_00428_mRNA_3.1	-
GF0021977	1	1	0	60S ribosomal protein L6 (2)	base binding [GO:0002037 molecular_function] (2); biological_process] (2); catalytic activity [GO:0005824 molecular_function] (2); tryptophan metabolic process [GO:0006568 molecular_function] (2); phosphoribosylanthranilate isomerase activity [GO:0006460 molecular_function] (2)	Translation protein, G1H-like domain [IPR000097] (2); ribosomal protein L6, N-terminal [IPR005568] (2); 60S ribosomal protein L6E [IPR000915] (2); ribosomal protein L2 domain [IPR014722] (2)	scaffold_4_mRNA_1819.1	C_unshiu_00113_mRNA_46.1	-
GF0021976	1	1	0	Phosphoribosylanthranilate isomerase (2)	base binding [GO:0002037 molecular_function] (2); biological_process] (2); catalytic activity [GO:0005824 molecular_function] (2); tryptophan metabolic process [GO:0006568 molecular_function] (2); phosphoribosylanthranilate isomerase activity [GO:0006460 molecular_function] (2)	N-(O-phosphoribosyl)aminoimidazole isomerase [PR001] [IPR01240] (2); Aldolase-type TIM barrel [IPR013785]	scaffold_4_mRNA_181.1	C_unshiu_00012_mRNA_58.1	-
GF0021975	1	1	0	Ankyrin repeat family protein (2)	base binding [GO:0002037 molecular_function] (2)	PGG domain [IPR026961] (2); Ankyrin repeat-containing domain [IPR020683] (2); Ankyrin repeat [IPR002110] (1)	scaffold_4_mRNA_1809.1	C_unshiu_00113_mRNA_37.1	-
GF0021972	1	1	0	Non-LTR retroelement reverse transcriptase-like (2)	base binding [GO:0004523 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-domain [IPR021337] (2); Reverse transcriptase [IPR004345] (2); Ribonuclease H-domain [IPR021516] (2); TBL2-DPI/HV-A2-related protein [IPR004345] (1)	scaffold_4_mRNA_181.1	C_unshiu_00571_mRNA_20.1	-
GF0021971	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2); oxidation-reduction process [GO:0055114 molecular_function] (2); peroxidase activity [GO:0004660 molecular_function] (2); response to oxidative stress [GO:0006979 molecular_function] (2); heme binding [GO:0020090 molecular_function] (2); hydrogen peroxide catabolic process [GO:0042744 biological_process] (1)	Endonuclease/exonuclease/phosphatase [IPR005135] (1); Metacaspase type I, plant [IPR033180] (2); Caspase-like domain [IPR029030]	scaffold_4_mRNA_1795.1	C_unshiu_00113_mRNA_29.1	-
GF0021970	1	1	0	Peroxidase 57 (2)	base binding [GO:0002037 molecular_function] (2); heme binding [GO:0020090 molecular_function] (2); hydrogen peroxide catabolic process [GO:0042744 biological_process] (1)	Hem peroxidase, plant/fungal/bacterial [IPR020216] (2); Peroxidases hemopigment binding site [IPR019793] (2); Plant peroxidase [IPR00823] (2); Peroxidase, active site [IPR019794] (2); Haem peroxidase [IPR012525] (2); Secretory peroxidase [IPR013395] (1)	scaffold_4_mRNA_1785.1	C_unshiu_00113_mRNA_18.1	-
GF0021969	1	1	0	Pentatricopeptide (2)	base binding [GO:0002037 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2)	DYW domain [IPR032867] (2); Pentatricopeptide repeat [IPR002885] (2); Tetrapetide-like helical domain [IPR01240] (2)	scaffold_4_mRNA_1782.1	C_unshiu_00113_mRNA_15.1	-
GF0021968	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Dominant of unknown function DUF4283 [IPR025558] (2)	scaffold_4_mRNA_1780.1	C_unshiu_00113_mRNA_13.1	-
GF0021964	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Transferase [IPR003480] (2); Chlорофилл acetyltransferase-like domain [IPR023213] (1)	scaffold_4_mRNA_1743.1	C_unshiu_00200_mRNA_26.1	-
GF0021963	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Transferase [IPR003480] (2); Chlорофилл acetyltransferase-like domain [IPR023213] (1)	scaffold_4_mRNA_1741.1	C_unshiu_00200_mRNA_24.1	-
GF0021962	1	1	0	Anthocyanin 5-aromatic acyltransferase (2)	base binding [GO:0002037 molecular_function] (2)	Chlорофилл acetyltransferase-like domain [IPR023213] (1)	scaffold_4_mRNA_1739.1	C_unshiu_00200_mRNA_21.1	-
GF0021961	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Scutellarela motif [IPR013761] (2); Sterile alpha motif domain-containing protein [IPR001660] (2)	scaffold_4_mRNA_1734.1	C_unshiu_00200_mRNA_13.1	-
GF0021960	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Scutellarela motif [IPR013761] (2); Sterile alpha motif domain-containing protein [IPR001660] (2)	scaffold_4_mRNA_1733.1	C_unshiu_00200_mRNA_12.1	-
GF0021959	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Scutellarela motif [IPR013761] (2); Sterile alpha motif domain-containing protein [IPR001660] (2)	scaffold_4_mRNA_1727.1	C_unshiu_00200_mRNA_7.1	-
GF0021957	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Scutellarela motif [IPR013761] (2); Sterile alpha motif domain-containing protein [IPR001660] (2)	scaffold_4_mRNA_1706.1	C_unshiu_00993_mRNA_4.1	-
GF0021956	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Scutellarela motif [IPR013761] (2); Sterile alpha motif domain-containing protein [IPR001660] (2)	scaffold_4_mRNA_1704.1	C_unshiu_00357_mRNA_17.1	-
GF0021955	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Scutellarela motif [IPR013761] (2); Sterile alpha motif domain-containing protein [IPR001660] (2)	scaffold_4_mRNA_1700.1	C_unshiu_00357_mRNA_21.1	-
GF0021954	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Scutellarela motif [IPR013761] (2); Sterile alpha motif domain-containing protein [IPR001660] (2)	scaffold_4_mRNA_1694.1	C_unshiu_00240_mRNA_27.1	-
GF0021953	1	1	0	Sterile alpha motif domain-containing protein binding (2)	base binding [GO:0002037 molecular_function] (2)	Sterile alpha motif/pointed domain [IPR013761] (2); Sterile alpha motif domain [IPR001660] (2)	scaffold_4_mRNA_1692.1	C_unshiu_00240_mRNA_25.1	-
GF0021952	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Sterile alpha motif/pointed domain [IPR013761] (2); Sterile alpha motif domain [IPR001660] (2)	scaffold_4_mRNA_1689.1	C_unshiu_00240_mRNA_23.1	-
GF0021951	1	1	0	DNA replication complex GINS protein PSF3 (2)	base binding [GO:0002037 molecular_function] (2)	GINS domain [IPR010992] (2); GINS complex [IPR021151] (1); GINS subunit, domain A [IPR021151] (1)	scaffold_4_mRNA_1681.1	C_unshiu_00012_mRNA_45.1	-
GF0021950	1	1	0	Hypothetical protein (1); Polynucleotidyl transferase, Ribonuclease H fold (1)	nucleic acid binding [GO:0003676 molecular_function] (2)	Domain of unknown function DUF4216 [IPR025558] (2); Domain of unknown function DUF4216 [IPR025558] (2); Transposon, En-Spm-like [IPR002424] (1)	scaffold_4_mRNA_1679.1	C_unshiu_00240_mRNA_9.1	-
GF0021949	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Transposon, En-Spm-like [IPR002424] (1)	scaffold_4_mRNA_1671.1	C_unshiu_00803_mRNA_5.1	-
GF0021948	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Transposon, En-Spm-like [IPR002424] (1)	scaffold_4_mRNA_1663.1	C_unshiu_00240_mRNA_1.1	-
GF0021947	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Histidine kinase-like ATPase, C-terminal domain [IPR003594] (2)	scaffold_4_mRNA_1654.1	C_unshiu_01641_mRNA_6.1	-
GF0021946	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Histidine kinase-like ATPase, C-terminal domain [IPR003594] (2)	scaffold_4_mRNA_1653.1	C_unshiu_01641_mRNA_5.1	-
GF0021945	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Histidine kinase-like ATPase, C-terminal domain [IPR003594] (2)	scaffold_4_mRNA_1652.1	C_unshiu_01641_mRNA_4.1	-
GF0021944	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Histidine kinase-like ATPase, C-terminal domain [IPR003594] (2)	scaffold_4_mRNA_1649.1	C_unshiu_00885_mRNA_15.1	-
GF0021943	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Histidine kinase-like ATPase, C-terminal domain [IPR003594] (2)	scaffold_4_mRNA_1648.1	C_unshiu_00885_mRNA_14.1	-
GF0021942	1	1	0	Putative transposable element (1); Hypothetical protein (1)	base binding [GO:0002037 molecular_function] (2)	Domain of unknown function DUF4216 [IPR025512] (2); Domain of unknown function DUF4216 [IPR025512] (2); Transposon, En-Spm-like [IPR002424] (1)	scaffold_4_mRNA_1615.1	C_unshiu_02086_mRNA_1.1	-
GF0021938	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Scutellarela motif [IPR013761] (2); Sterile alpha motif domain-containing protein [IPR001660] (2)	scaffold_4_mRNA_1612.1	C_unshiu_00885_mRNA_6.1	-
GF0021937	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Scutellarela motif [IPR013761] (2); Sterile alpha motif domain-containing protein [IPR001660] (2)	scaffold_4_mRNA_1582.1	C_unshiu_00461_mRNA_7.1	-
GF0021936	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Scutellarela motif [IPR013761] (2); Sterile alpha motif domain-containing protein [IPR001660] (2)	scaffold_4_mRNA_1576.1	C_unshiu_00895_mRNA_1.1	-
GF0021935	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Scutellarela motif [IPR013761] (2); Sterile alpha motif domain-containing protein [IPR001660] (2)	scaffold_4_mRNA_1575.1	C_unshiu_00464_mRNA_3.1	-
GF0021934	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Scutellarela motif [IPR013761] (2); Sterile alpha motif domain-containing protein [IPR001660] (2)	scaffold_4_mRNA_1556.1	C_unshiu_00847_mRNA_5.1	-
GF0021933	1	1	0	DUF1499 family protein (2)	base binding [GO:0002037 molecular_function] (2)	Scutellarela motif [IPR013761] (2); Sterile alpha motif domain-containing protein [IPR001660] (2)	scaffold_4_mRNA_1553.1	C_unshiu_00847_mRNA_4.1	-
GF0021930	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Scutellarela motif [IPR013761] (2); Sterile alpha motif domain-containing protein [IPR001660] (2)	scaffold_4_mRNA_1540.1	C_unshiu_00365_mRNA_8.1	-
GF0021929	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Scutellarela motif [IPR013761] (2); Sterile alpha motif domain-containing protein [IPR001660] (2)	scaffold_4_mRNA_1535.1	C_unshiu_00365_mRNA_14.1	-
GF0021927	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Alpha/Beta hydrolase fold [IPR029058] (2)	scaffold_4_mRNA_1521.1	C_unshiu_00365_mRNA_27.1	-
GF0021926	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Alpha/Beta hydrolase fold [IPR029058] (2)	scaffold_4_mRNA_1520.1	C_unshiu_00738_mRNA_17.1	-
GF0021925	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Alpha/Beta hydrolase fold [IPR029058] (2)	scaffold_4_mRNA_1518.1	C_unshiu_00738_mRNA_14.1	-
GF0021924	1	1	0	Hypothetical protein (2)	molecule-acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_4_mRNA_1517.1	C_unshiu_00738_mRNA_13.1	-
GF0021923	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Domain of unknown function DUF4233 [IPR025558] (2)	scaffold_4_mRNA_1514.1	C_unshiu_00738_mRNA_11.1	-
GF0021922	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	Protein kinase-like domain [IPR011099]	scaffold_4_mRNA_1511.1	C_unshiu_00738_mRNA_11.1	-
GF0021921	1	1	0	Hypothetical protein (2)	base binding [GO:0002037 molecular_function] (2)	(2); Leucine-rich repeat domain, LRR repeat [IPR012673] (2); Leucine-rich repeat-containing NBS-like domain, plant-type [IPR013210] (2); Leucine-rich repeat [IPR016111] (1)	scaffold_4_mRNA_1502.1	C_unshiu_00401_mRNA_4.1	-

ID	Num. in <i>C. clementiae</i>	Num. in <i>C. umshiu</i>	Num. in <i>P. trifoliata</i>	Name	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliata</i>
GF0021920	1	1	0	Hypothetical protein (1); Phosphoenolpyruvate carboxylase (1)	[IPR004764] (2)	Transposase, Tnp1/Eis-Spm-like	scaffold_4_mRNA_1501.1	C_umshiu_00401_mRNA_3.1	-
GF0021919	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1496.1	C_umshiu_00030_mRNA_60.1	-
GF0021918	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1489.1	C_umshiu_02540_mRNA_1.1	-
GF0021916	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1486.1	C_umshiu_00019_mRNA_97.1	-
GF0021915	1	1	0	Putative invertase inhibitor (2)	enzyme inhibitor activity [GO:0004857 molecular_function] (2)	Pectinesterase inhibitor domain [IPR006501] (2); Pla a 1-like ABC transporter, conserved site [IPR017871] (2); ABC-transporter extension domain [IPR032781] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); ABC transporter-like [IPR003439] (2); AAA+ ATPase domain [IPR003593] (2)	scaffold_4_mRNA_1485.1	C_umshiu_00019_mRNA_96.1	-
GF0021914	1	1	0	ATP-binding cassette, subfamily F, member 3 (2)	ATPase activity [GO:0016887 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2)	Zinc finger, CCHC-type [IPR001878] (2); Zinc knuckle CX2C-X4H4C [IPR025836] (2); Domain of unknown function DU4283 [IPR025585] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2)	scaffold_4_mRNA_1481.1	C_umshiu_00019_mRNA_92.2	-
GF0021913	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1480.1	C_umshiu_00019_mRNA_91.1	-
GF0021912	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Zinc finger, CCHC-type [IPR001878] (2); Zinc knuckle CX2C-X4H4C [IPR025836] (2); Domain of unknown function DU4283 [IPR025585] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2)	scaffold_4_mRNA_1477.1	C_umshiu_00019_mRNA_88.1	-
GF0021911	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1473.1	C_umshiu_00019_mRNA_84.1	-
GF0021910	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1470.1	C_umshiu_00019_mRNA_83.1	-
GF0021909	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1469.1	C_umshiu_00019_mRNA_82.1	-
GF0021908	1	1	0	Hypothetical protein (1); Non-LTR retroelement reverse transcriptase-like protein (1)	nucleic acid binding [GO:0003676 molecular_function] (2); RNA-DNA hybrid ribonuclease activity [GO:0045523 molecular_function] (2)	Reverse transcriptase domain [IPR01777] (2); Reverse transcriptase zinc-finger domain [IPR006690] (2); Ribonuclease H-like domain [IPR012337] (2); Ribonuclease H domain [IPR012337] (2)	scaffold_4_mRNA_1468.1	C_umshiu_00019_mRNA_81.1	-
GF0021907	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1459.1	C_umshiu_00019_mRNA_72.1	-
GF0021906	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1458.1	C_umshiu_00019_mRNA_71.1	-
GF0021905	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1444.1	C_umshiu_00019_mRNA_69.1	-
GF0021904	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1442.1	C_umshiu_00019_mRNA_66.1	-
GF0021903	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1441.1	C_umshiu_00019_mRNA_55.1	-
GF0021902	1	1	0	Hypothetical protein (2)		Viral movement protein [IPR028919] (2)	scaffold_4_mRNA_1439.1	C_umshiu_00019_mRNA_53.1	-
GF0021901	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1438.1	C_umshiu_00019_mRNA_52.1	-
GF0021900	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1435.1	C_umshiu_00019_mRNA_49.1	-
GF0021899	1	1	0	Hypothetical protein (2)		Gag-polypeptide of LTR copia-type [IPR029472] (1)	scaffold_4_mRNA_1434.1	C_umshiu_00019_mRNA_48.1	-
GF0021898	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1432.1	C_umshiu_00019_mRNA_46.1	-
GF0021897	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPR032675] (1)	scaffold_4_mRNA_1431.1	C_umshiu_00019_mRNA_45.1	-
GF0021896	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1430.1	C_umshiu_00019_mRNA_44.1	-
GF0021895	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1429.1	C_umshiu_00019_mRNA_43.1	-
GF0021894	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_4_mRNA_1428.1	C_umshiu_00019_mRNA_42.1	-
GF0021893	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1427.1	C_umshiu_00019_mRNA_41.1	-
GF0021892	1	1	0	NAC transcription factors 48 (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); DNA binding [GO:003677 molecular_function] (2)	NAC domain [IPR003441] (2)	scaffold_4_mRNA_1426.1	C_umshiu_00019_mRNA_40.1	-
GF0021891	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1425.1	C_umshiu_00019_mRNA_39.1	-
GF0021890	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1423.1	C_umshiu_00019_mRNA_37.1	-
GF0021889	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); DNA binding [GO:003677 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (1)	NAC domain [IPR003441] (2); Endonuclease/exonuclease/phosphatase domain [IPR012337] (1)	scaffold_4_mRNA_1421.1	C_umshiu_00019_mRNA_35.1	-
GF0021888	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1417.1	C_umshiu_00019_mRNA_31.1	-
GF0021887	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1415.1	C_umshiu_00019_mRNA_27.1	-
GF0021886	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1412.1	C_umshiu_00019_mRNA_26.1	-
GF0021885	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1411.1	C_umshiu_00019_mRNA_25.1	-
GF0021884	1	1	0	BED zinc finger/hAT family dimerization domain (2)	DNA binding [GO:0003677 molecular_function] (2); protein dimerization activity [GO:0046983 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	HAT, C-terminal dimerisation domain [IPR008906] (2); hAT-domain, RNAse-H-like domain [IPR012337] (2); hAT-like transposase, RNase-H fold [IPR025525] (2); Zinc finger, BED-type [IPR003686] (2); Zinc finger C2H2-type [IPR013087] (1)	scaffold_4_mRNA_1410.1	C_umshiu_00019_mRNA_24.1	-
GF0021883	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1409.1	C_umshiu_00019_mRNA_22.1	-
GF0021882	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1408.1	C_umshiu_00019_mRNA_21.1	-
GF0021881	1	1	0	Inner nuclear membrane Man1 (2)	integral component of nuclear inner membrane [GO:0006339 cellular_component] (2)	Inner nuclear membrane protein MAN1 [IPR018996] (2)	scaffold_4_mRNA_1407.1	C_umshiu_00019_mRNA_20.1	-
GF0021880	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1404.1	C_umshiu_00019_mRNA_17.1	-
GF0021879	1	1	0	Hypothetical protein (2)		HAT, C-terminal dimerisation domain [IPR008906] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_4_mRNA_1403.1	C_umshiu_00019_mRNA_16.1	-
GF0021878	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1398.1	C_umshiu_00019_mRNA_10.1	-
GF0021877	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1396.1	C_umshiu_00061_mRNA_62.1	-
GF0021875	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1379.1	C_umshiu_00313_mRNA_4.1	-
GF0021874	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1378.1	C_umshiu_00513_mRNA_5.1	-
GF0021873	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1376.1	C_umshiu_00204_mRNA_10.1	-
GF0021872	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1370.1	C_umshiu_02291_mRNA_1.1	-
GF0021871	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1368.1	C_umshiu_02291_mRNA_3.1	-
GF0021868	1	1	0	RNA-directed DNA polymerase (Reverse transcriptase) (2)		Reverse transcriptase domain [IPR000477] (2)	scaffold_4_mRNA_1343.1	C_umshiu_00483_mRNA_14.1	-
GF0021867	1	1	0	Hypothetical protein (2)		ATPase family AAA domain-containing protein 3, domain of unknown function DUF3523 [IPR021911] (2)	scaffold_4_mRNA_134.1	C_umshiu_00012_mRNA_11.1	-
GF0021866	1	1	0	Hypothetical protein (2)		protein dimerization activity [GO:0046983 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2); protein dimerization activity [GO:0046983 molecular_function] (2)	scaffold_4_mRNA_133.8.1	C_umshiu_00483_mRNA_10.1	-
GF0021865	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_133.7.1	C_umshiu_00483_mRNA_9.1	-
GF0021864	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1332.1	C_umshiu_00483_mRNA_4.1	-
GF0021863	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1328.1	C_umshiu_00483_mRNA_2.1	-
GF0021862	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1318.1	C_umshiu_00028_mRNA_5.1	-
GF0021861	1	1	0	Hypothetical protein (2)		Zinc finger, CCHC-type [IPR001878] (2); zinc ion binding [GO:00080720 molecular_function] (2)	scaffold_4_mRNA_1313.1	C_umshiu_0008_mRNA_5.1	-
GF0021860	1	1	0	Hypothetical protein (2)		Protein kinase-like domain [IPR001109] (1)	scaffold_4_mRNA_131.1	C_umshiu_00012_mRNA_8.1	-
GF0021857	1	1	0	Hypothetical protein (2)		Aspartic peptidase domain [IPR021109] (1); Aspartic peptidase, active site [IPR001969] (1)	scaffold_4_mRNA_1299.1	C_umshiu_00271_mRNA_45.1	-
GF0021856	1	1	0	Retrovirus-related Pol/polyprotein fusion transposon 412 (2)	nucleic acid binding [GO:0003676 molecular_function] (2); zinc ion binding [GO:00080720 molecular_function] (2)	Ribonuclease H-like domain [IPR021337] (2); Ribonuclease H domain scaffold_4_mRNA_1297.1	C_umshiu_00308_mRNA_19.1	-	
GF0021855	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1294.1	C_umshiu_00375_mRNA_1.1	-
GF0021854	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1292.1	C_umshiu_00735_mRNA_4.1	-
GF0021853	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1272.1	C_umshiu_00333_mRNA_10.1	-
GF0021852	1	1	0	Hypothetical protein (2)		Protein-tyrosine phosphatase-like domain [IPR029021] (2); Myotubularin-like phosphatase domain [IPR010569] (2); Myotubularin family [IPR030564] (2)	scaffold_4_mRNA_1263.1	C_umshiu_02303_mRNA_7.1	-
GF0021851	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1259.1	C_umshiu_00008_mRNA_24.1	-
GF0021850	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1258.1	C_umshiu_00308_mRNA_25.1	-
GF0021849	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1256.1	C_umshiu_00308_mRNA_27.1	-
GF0021848	1	1	0	Retrotransposon protein, putative, Ty3-gpase subcell, expressed (2)			scaffold_4_mRNA_1255.1	C_umshiu_00308_mRNA_28.1	-
GF0021847	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1254.1	C_umshiu_00333_mRNA_7.1	-
GF0021846	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1253.1	C_umshiu_00333_mRNA_8.1	-
GF0021845	1	1	0	Hypothetical protein (2)		Myotubularin-like phosphatase domain [IPR010569] (1); Myotubularin family [IPR030564] (1); Protein-tyrosine phosphatase-like [IPR029021] (1)	scaffold_4_mRNA_1250.1	C_umshiu_00333_mRNA_9.1	-
GF0021843	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1237.1	C_umshiu_00809_mRNA_2.1	-
GF0021842	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1211.1	C_umshiu_00140_mRNA_13.1	-
GF0021841	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_121.1	C_umshiu_00012_mRNA_1.4	-
GF0021840	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1208.1	C_umshiu_00140_mRNA_16.1	-
GF0021839	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1207.1	C_umshiu_00140_mRNA_30.1	-
GF0021838	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1192.1	C_umshiu_00140_mRNA_31.1	-
GF0021837	1	1	0	Reverse transcriptase (2)			scaffold_4_mRNA_1191.1	C_umshiu_00140_mRNA_31.1	-
GF0021836	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1182.1	C_umshiu_00532_mRNA_23.1	-
GF0021835	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1181.1	C_umshiu_00532_mRNA_22.1	-

ID	Num in <i>C. clementine</i>	Num in <i>C. umshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliata</i>
GF0021834	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524]; molecular function [2]; ATPase activity [GO:0016887 mslecular function] [2]; membrane [GO:0016620 cellular_component] [2]	AAA+ ATPase domain [IPR003593] (2); ABC transporter-like [IPR003439] (2); ABC-2 type transporter [IPR013523] (2); ABC-transporter extracellular N-terminal domain [IPR029481] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Plant PDR ABC transporter associated [IPR013581] (2)	scaffold_4_mRNA_1171.1	C_umshiu_00532_mRNA_13.1	-
GF0021833	1	1	0	Hypothetical protein (2)		MULE transposase domain [IPR018289]	scaffold_4_mRNA_1170.1	C_umshiu_00532_mRNA_12.1	-
GF0021832	1	1	0	Hypothetical protein (2)		(1) Protein kinase-like domain [IPR007119] (2); Serine/threonine-protein kinase active site [IPR008271] (2); AGC-kinase C-terminal [IPR000961] (2)	scaffold_4_mRNA_1167.1	C_umshiu_00532_mRNA_9.1	-
GF0021831	1	1	0	Protein kinase G11A (2)	Protein kinase-like domain [IPR004674] (2); protein kinase [GO:0004648 biological process] (2)	Serine/threonine kinase activity [GO:0004674 molecular function] [2]; protein phosphorylation [GO:0006468 biological process] (2)	scaffold_4_mRNA_1163.1	C_umshiu_00532_mRNA_5.1	-
GF0021830	1	1	0	TGA: Transposon-coded proteins with zinc-finger transcription factor domains (1); TVA, reverse transcriptase, integrase domains in various combinations (1); Hypothetical protein (1)	TGA: Transposon-coded proteins with zinc-finger transcription factor domains [GO:0008270 molecular function] [2]; nucleic acid binding [GO:0003676 molecular function] (2)	Zinc-finger, CCHC-type [IPR001878] (2); Reverse transcriptase, RNA-dependent DNA polymerase [IPR013163] (1)	scaffold_4_mRNA_1160.1	C_umshiu_00532_mRNA_2.1	-
GF0021829	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1154.1	C_umshiu_00440_mRNA_19.1	-
GF0021828	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1153.1	C_umshiu_00440_mRNA_18.1	-
GF0021827	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1152.1	C_umshiu_00440_mRNA_17.1	-
GF0021826	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2); hAT-like transposase, RNase H fold	scaffold_4_mRNA_1151.1	C_umshiu_00440_mRNA_16.1	-
GF0021825	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular function] (2)	hAT-like transposase, RNase H fold [IPR025252] (2)	scaffold_4_mRNA_1150.1	C_umshiu_00440_mRNA_15.1	-
GF0021824	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1149.1	C_umshiu_00440_mRNA_14.1	-
GF0021823	1	1	0	Calmodulin-binding family protein isoform 1 (2)	base binding [GO:0002037 molecular function] (2); iron ion binding [GO:0005506 molecular function] (2); oxoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular function] [2]; oxidation-reduction process [GO:0055114 biological process] (2)	Calmodulin-binding domain [IPR0002290] (1)	scaffold_4_mRNA_1148.1	C_umshiu_00440_mRNA_13.1	-
GF0021822	1	1	0	Unspecific monooxygenase (2)					
GF0021821	1	1	0	Putative retroelement polyprotein (1); Hypothetical protein (1)			scaffold_4_mRNA_1141.1	C_umshiu_00440_mRNA_4.1	-
GF0021820	1	1	0	Hypothetical protein (2)	methyltransferase activity [GO:0008168 molecular function] (2)	Putative S-adenyl-L-methionine-dependent methyltransferase [IPR004159] (2); S-adenyl-L-methionine-dependent methyltransferase [IPR029063] (2)	scaffold_4_mRNA_1139.1	C_umshiu_00440_mRNA_2.1	-
GF0021819	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular function] (2); regulation of transcription, DNA-templated [GO:0000355 biological process] (2)	Cytochrome P450, E-class, group I [IPR002401] (2); Cytochrome P450 [IPR001128] (2)	scaffold_4_mRNA_1142.1	C_umshiu_00440_mRNA_5.1	-
GF0021818	1	1	0	Hypothetical protein (2)	oxidoreductase activity, sequence-specific DNA binding [GO:0003700 molecular function] (2)	AP2/ERF domain [IPR001471] (2); DNA-binding domain [IPR016177] (2)	scaffold_4_mRNA_1136.1	C_umshiu_00512_mRNA_19.1	-
GF0021817	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1124.1	C_umshiu_00101_mRNA_2.1	-
GF0021816	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1122.1	C_umshiu_01133_mRNA_6.1	-
GF0021815	1	1	0	RNA-directed DNA polymerase (2)	DNA interaction [GO:0015074 biological process] (2); nucleic acid binding [GO:0003676 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2); Integrase, catalytic core scaffold_4_mRNA_1118.1	C_umshiu_00929_mRNA_2.1	-	
GF0021814	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2); Ribonuclease H domain scaffold_4_mRNA_1117.1	C_umshiu_00929_mRNA_3.1	-	
GF0021813	1	1	0	Hypothetical protein (2)	hybrid ribonuclease activity [GO:0045423 molecular function] (2)	[IPR02156] (2)	scaffold_4_mRNA_1116.1	C_umshiu_00929_mRNA_4.1	-
GF0021812	1	1	0	LRR receptor-like kinase family protein (2)	protein binding [GO:0005515 molecular function] (2); protein kinase activity [GO:0006468 biological process] (2); ATP binding [GO:000552 molecular function] (2)	Protein kinase domain [IPR000719] (2); Leucine-rich repeat, typical subunit [IPR003591] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Protein kinase, ATP binding site [IPR017441] (2); Serine/threonine-protein kinase [IPR008271] (2); Protein kinase, catalytic domain [IPR002290] (1)	scaffold_4_mRNA_1113.1	C_umshiu_00929_mRNA_6.1	-
GF0021811	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1102.1	C_umshiu_00922_mRNA_13.1	-
GF0021810	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1101.1	C_umshiu_00202_mRNA_32.1	-
GF0021809	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1098.1	C_umshiu_00725_mRNA_4.1	-
GF0021808	1	1	0	Putative non-LTR retroelement reverse transcriptase (2)		Reverse transcriptase domain [IPR00177] (2); Ribonuclease H-like domain [IPR012337] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2); Ribonuclease H domain [IPR02156] (2)	scaffold_4_mRNA_1097.1	C_umshiu_00725_mRNA_5.1	-
GF0021807	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular function] (1)	Endonuclease/exonuclease/phosphatase [IPR005135] (2); Endonuclease domain, L-domain-like [IPR023675] (2); Leucine-rich repeat domain [IPR016113] (1); Protein kinase-like domain [IPR002290] (1)	scaffold_4_mRNA_1096.1	C_umshiu_00725_mRNA_8.1	-
GF0021806	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_109.1	C_umshiu_00202_mRNA_31.1	-
GF0021805	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1084.1	C_umshiu_00111_mRNA_2.1	-
GF0021804	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1083.1	C_umshiu_00111_mRNA_3.1	-
GF0021803	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1074.1	C_umshiu_00111_mRNA_12.1	-
GF0021802	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1067.1	C_umshiu_00111_mRNA_19.1	-
GF0021801	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1066.1	C_umshiu_00111_mRNA_20.1	-
GF0021799	1	1	0	WD repeat-containing protein 5 (2)	protein binding [GO:0005515 molecular function] (2)	WD40 repeat [IPR001680] (2); WD40-repeat-containing domain [IPR017986] (2); WD40/VTN repeat-like-containing domain [IPR015943] (2)	scaffold_4_mRNA_1064.1	C_umshiu_00111_mRNA_22.1	-
GF0021798	1	1	0	PIP-like eRF1 (1); Hypothetical protein (1)			scaffold_4_mRNA_1062.1	C_umshiu_00111_mRNA_23.1	-
GF0021797	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1060.1	C_umshiu_00111_mRNA_27.1	-
GF0021796	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1059.1	C_umshiu_00111_mRNA_28.1	-
GF0021795	1	1	0	FBD, F-box and leucine rich repeat domain-containing protein (2)	protein binding [GO:0005515 molecular function] (2)	FBD domain [IPR006566] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); F-box domain [IPR001810] (2)	scaffold_4_mRNA_1058.1	C_umshiu_00111_mRNA_29.1	-
GF0021794	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1055.1	C_umshiu_00111_mRNA_33.1	-
GF0021793	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1054.1	C_umshiu_00111_mRNA_34.1	-
GF0021792	1	1	0	Putative inorganic polyphosphate/atp-nad kinase (2)			scaffold_4_mRNA_1043.1	C_umshiu_00932_mRNA_4.1	-
GF0021791	1	1	0	Nepenthesin II (2)	aspartic-type endopeptidase activity [GO:0004100 molecular function] (2); electron carrier activity [GO:0009055 molecular function] (2); proteolysis [GO:0006508 biological process] (2)	Aspartic peptidase active site [IPR00460] (2); Aspartic peptidase A1 family [IPR010161] (2); Xylanase inhibitor, C-terminal [IPR02799] (2); Xylanase inhibitor, N-terminal [IPR032661] (2); Cupredoxin [IPR008972] (2); Peptidase domain [IPR033121] (2); Phytocyanin domain [IPR003243] (2); Aspartic peptidase domain [IPR01019] (2); Peptidase domain [IPR021109] (2); Pep4-like domain, plant [IPR034161] (1)	scaffold_4_mRNA_1039.1	C_umshiu_00932_mRNA_9.1	-
GF0021790	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1035.1	C_umshiu_00932_mRNA_11.1	-
GF0021789	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_103.1	C_umshiu_00202_mRNA_25.1	-
GF0021788	1	1	0	Hypothetical protein (2)	aspartic-type endopeptidase activity [GO:0004100 molecular function] (2); proteolysis [GO:0006508 biological process] (2)	Aspartic peptidase A1 family [IPR00461] (2); Xylanase inhibitor, C-terminal [IPR023799] (2); Aspartic peptidase domain [IPR021109] (2)	scaffold_4_mRNA_1025.1	C_umshiu_00059_mRNA_20.1	-
GF0021787	1	1	0	Putative glycosyltransferase family protein 64 C5-like (1); Glycosyltransferase family protein 64 protein C5 (1)	glycosaminoglycan biosynthetic process [GO:0006024 biological process] (2); heparan sulfate proteoglycan biosynthetic process [GO:0015012] (2); glycosaminoglycan biosynthetic process [GO:0006508 biological process] (2)	Nucleotide-diphospho-sugar transferases [IPR029044] (2); Glycosyl hydrolase, five-bladed beta-propeller domain [IPR023396] (2); Exostosin, C-terminal peptide domain [IPR021109] (2); Chondroitinase, C-terminal domain [IPR015338] (2)	scaffold_4_mRNA_1021.1	C_umshiu_00059_mRNA_23.1	-
GF0021786	1	1	0	Monosaccharide transport protein (2)			scaffold_4_mRNA_1019.1	C_umshiu_00059_mRNA_26.1	-
GF0021785	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1017.1	C_umshiu_00059_mRNA_28.1	-
GF0021784	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1016.1	C_umshiu_00059_mRNA_29.1	-

ID	Num. in <i>C. clementine</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0021783	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508]; biological_process [2]; serine-type peptidase activity [GO:0008236]; molecular_function [2]		scaffold_4_mRNA_1012.1	C_unshiu_00059_mRNA_33.1	-
GF0021781	1	1	0	Hypothetical protein (1); Serine carboxypeptidase S28 family protein (1)	zinc ion binding [GO:0008270]; molecular_function [2]; nucleic acid binding [GO:0003676]; molecular_function [2]	Peptidase S28 [IPR008758] (2)	scaffold_4_mRNA_1006.1	C_unshiu_00059_mRNA_38.1	-
GF0021780	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270]; molecular_function [2]; nucleic acid binding [GO:0003676]; molecular_function [2]	Matri_1-like; CH1-type zinc finger [IPR003040] (1); Zinc_finger_CH1-type [IPR013087] (1); Zinc_finger_U1-type [IPR036040] (1); Zinc_finger_C2H2-like [IPR015880] (1)	scaffold_4_mRNA_1000.1	C_unshiu_01189_mRNA_6.1	-
GF0021779	1	1	0	Pre-mRNA-splicing factor ATP-dependent RNA helicase (2)	helicase activity [GO:0004386]; molecular_function [2]; ATP-dependent helicase activity [GO:0008026]; molecular_function [2]; nucleic acid binding [GO:0003676]; molecular_function [2]; ATP binding [GO:0005524]; molecular_function [2]	[IPR002464] (2); Helicase, C-terminal [IPR016150] (2); Peptidase_inhibitor [IPR027417] (2); tRNA-ribonuclease [IPR014001] (2); DEAH-box type, conserved site [IPR002464] (2); Helicase superfamily 1/2, ATP-binding domain [IPR014001] (2)	scaffold_3_mRNA_990.1	C_unshiu_00199_mRNA_16.1	-
GF0021778	1	1	0	Hypothetical protein (2)	polymerized RNA polymerase D subunit 1-like protein (2)	Protein of unknown function DUF3223 [IPR021602] (2)	scaffold_3_mRNA_988.1	C_unshiu_00199_mRNA_19.1	-
GF0021776	1	1	0	Hypothetical protein (2)	hypothetical protein (2)	[IPR010259] (2); Peptidase_SS_inhibitor [IPR010259] (2)	scaffold_3_mRNA_977.1	C_unshiu_00199_mRNA_27.1	-
GF0021770	1	1	0	Hypothetical protein (2)	hypothetical protein (2)	scaffold_3_mRNA_930.1	C_unshiu_00587_mRNA_2.1	-	
GF0021769	1	1	0	Hypothetical protein (2)	hypothetical protein (2)	scaffold_3_mRNA_925.1	C_unshiu_00345_mRNA_9.1	-	
GF0021768	1	1	0	Subtilisin-like serine endopeptidase family protein (1); Subtilisin-like serine endopeptidase family protein, putative (1)	serine-type endopeptidase activity [GO:0004382]; molecular_function [2]; proteolysis [GO:0006508]; biological_process [2]	Peptidase_SS/S3_domain [IPR000209] (2); Peptidase_SS_subtilisin-related [IPR000209] (2); Peptidase_SS_inhibitor [IPR010259] (2); Peptidase_SS_subtilisin_Ser-active_site [IPR021828] (2); Cucumisin-like catalytic domain [IPR034197] (1)	scaffold_3_mRNA_908.1	C_unshiu_01872_mRNA_3.1	-
GF0021767	1	1	0	Hypothetical protein (2)	Putative sugar phosphate/phosphate translocator (2)	Sugar_phosphate_transporter_domain [IPR004853] (2)	scaffold_3_mRNA_883.1	C_unshiu_00956_mRNA_4.1	-
GF0021765	1	1	0	Hypothetical protein (2)	protein serine/threonine phosphatase activity [GO:0004722]; molecular_function [2]; protein dephosphorylation [GO:0006470]; biological_process [2]; catalytic activity [GO:0003824]; molecular_function [2]	Protein_phosphatase_2C_family [IPR015453] (2); PPM-type phosphatase domain [IPR001932] (2)	scaffold_3_mRNA_874.1	C_unshiu_00412_mRNA_29.1	-
GF0021764	1	1	0	Hypothetical protein (2)	nucleic_acid_methyltransferase [GO:0003676]; molecular_function [2]; RNA-DNA hybrid ribonuclease activity [GO:0004523]; molecular_function [1]; nucleobase-containing compound metabolic process [GO:0006139]; biological_process [2]; nucleic_acid_methyltransferase [GO:0008168]; molecular_function [2]	Ribonuclease_H-like_domain [IPR012337] (2); Ribonuclease_H_domain scaffold_3_mRNA_833.1 [IPR002156] (1)	scaffold_3_mRNA_84.1	C_unshiu_00850_mRNA_16.1	-
GF0021762	1	1	0	Hypothetical protein (2)	ATP-dependent caseinolytic protease/crotonase family protein isoform 2 (2)	MT-A70-like [IPR007757] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR012963] (2)	scaffold_3_mRNA_83.1	C_unshiu_01147_mRNA_13.1	-
GF0021760	1	1	0	MRNAadenosine methylase isoform 1 (2)	MRNAadenosine methylase isoform 1 (2); biological_process [2]; nucleic_acid_methyltransferase [GO:0006139]; molecular_function [2]	Squalene_phosphatase [IPR002060] (2); squalenoperoxidase domain [IPR008491] (2)	scaffold_3_mRNA_83.1	C_unshiu_00850_mRNA_17.1	-
GF0021759	1	1	0	UPF0551 protein C8orf8 (2)	UPF0551 protein C8orf8 (2); biological_process [2]; biosynthetic process [GO:0009058]; biological_process [2]	Squalene_phosphatase [IPR002060] (2); squalenoperoxidase_domain [IPR015818] (2); HsP1/Hsp1 alpha/beta-citrate lyase domain [IPR053000] (2)	scaffold_3_mRNA_818.1	C_unshiu_00159_mRNA_42.1	-
GF0021756	1	1	0	Phosphoenolpyruvate carboxylase family protein (2)	catalytic activity [GO:0003824]; molecular_function [2]	Pyruvate_phosphotransferase_kinase-like_domain [IPR029044] (2); Pyruvate_phosphotransferase_kinase-like_domain [IPR015818] (2); HsP1/Hsp1 alpha/beta-citrate lyase domain [IPR053000] (2)	scaffold_3_mRNA_80.1	C_unshiu_01206_mRNA_1.1	-
GF0021752	1	1	0	Hypothetical protein (2)	hypothetical protein (2)	scaffold_3_mRNA_785.1	C_unshiu_00179_mRNA_24.1	-	
GF0021751	1	1	0	Hypothetical protein (2)	Glucuronosyltransferase PGSIP8 (2)	scaffold_3_mRNA_780.1	C_unshiu_00179_mRNA_19.1	-	
GF0021750	1	1	0	Hypothetical protein (2)	hypothetical protein (2)	Nucleotide-diphospho-sugar转移ases [IPR029044] (2)	scaffold_3_mRNA_767.1	C_unshiu_01746_mRNA_10.1	-
GF0021749	1	1	0	Hypothetical protein (2)	ATP-dependent protease [GO:0003677]; molecular_function [2]; transcription_factor_activity, sequence-specific_DNA_binding [GO:0003700]; molecular_function [2]; regulation_of_transcription_DNA-templated [GO:0006355]; biological_process [2]	ClpP_crotonase-like_domain [IPR029045] (2); Enoyl-CoA_hydroxylase/isomerase; HBV-HCoA-H type [IPR032299] (2)	scaffold_3_mRNA_750.1	C_unshiu_02184_mRNA_3.1	-
GF0021748	1	1	0	Hypothetical protein (2)	ATP-dependent protease [GO:0003677]; molecular_function [2]; transcription_factor_activity, sequence-specific_DNA_binding [GO:0003700]; molecular_function [2]; regulation_of_transcription_DNA-templated [GO:0006355]; biological_process [2]	Palmitoyl_protein_isomerase [IPR02472] (2); Alpha/Beta hydrolase fold [IPR029058] (2)	scaffold_3_mRNA_722.1	C_unshiu_00442_mRNA_9.1	-
GF0021744	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677]; molecular_function [2]; transcription_factor_activity, sequence-specific_DNA_binding [GO:0003700]; molecular_function [2]; regulation_of_transcription_DNA-templated [GO:0006355]; biological_process [2]	DNA-binding_domain [IPR016177] (2); AP2_ERF_domain [IPR001471] (2)	scaffold_3_mRNA_718.1	C_unshiu_00795_mRNA_3.1	-
GF0021743	1	1	0	Ethylen responsive element binding factor, putative (2)	Ethylen responsive element binding factor, putative (2)	DNA-binding_domain [IPR016177] (2); AP2_ERF_domain [IPR001471] (2)	scaffold_3_mRNA_718.1	C_unshiu_00795_mRNA_3.1	-
GF0021742	1	1	0	G-type lectin S-receptor-like serine/threonine-protein kinase RLK1 (2)	protein phosphorylation [GO:0006468]; biological_process [1]; protein kinase activity [GO:0004672]; molecular_function [1]; ATP binding [GO:0005524]; molecular_function [1]	Beta-type_lectin_domain [IPR001480] (2); Protein_kinase-like_domain [IPR011099] (1); Protein_kinase_domain [IPR000719] (1); Serine/threonine/dual specificity_protein_kinase, catalytic_domain [IPR002290] (1); Protein_kinase_ATP_binding_domain [IPR017441] (1)	scaffold_3_mRNA_712.1	C_unshiu_00795_mRNA_9.1	-
GF0021741	1	1	0	Hypothetical protein (2)	hypothetical protein (2)	scaffold_3_mRNA_699.1	C_unshiu_00795_mRNA_11.1	-	
GF0021740	1	1	0	Hypothetical protein (2)	Transcription factor IIB 90 kDa subunit (2)	scaffold_3_mRNA_687.1	C_unshiu_01638_mRNA_5.1	-	
GF0021738	1	1	0	Expansin-like B1 (2)	Expansin-like B1 (2)	scaffold_3_mRNA_669.1	C_unshiu_00628_mRNA_5.1	-	
GF0021737	1	1	0	Expansin-like B1 (2)	extracellular_region [GO:0005576]; cellular_component [2]	Expansin_pollen_allergen, DPBB_domain [IPR00112] (2); Expansin_Lol_pI [IPR00113] (2); Expansin_beta-binding-like_domain [IPR01117] (2); RbA-like_double-pi_beta-barrel_domain [IPR00909] (1); RbA-like_protein_double-pi_beta-barrel_domain [IPR00909] (1)	scaffold_3_mRNA_664.1	C_unshiu_01811_mRNA_3.1	-
GF0021735	1	1	0	Hypothetical protein (2)	hypothetical protein (2)	Expansin_pollen_allergen, DPBB_domain [IPR00112] (2); Expansin_Lol_pI [IPR00113] (2); Expansin_beta-binding-like_domain [IPR01117] (2); RbA-like_double-pi_beta-barrel_domain [IPR00909] (1); RbA-like_protein_double-pi_beta-barrel_domain [IPR00909] (1)	scaffold_3_mRNA_657.1	C_unshiu_00768_mRNA_12.1	-
GF0021734	1	1	0	Subtilisin-like serine protease (2)	serine-type endopeptidase activity [GO:0004325]; molecular_function [2]; proteolysis [GO:0006508]; biological_process [2]	Peptidase_SS_subtilisin_Ace-active_site [IPR023287] (2); Peptidase_SS_subtilisin-related [IPR015500] (2); Peptidase_SS/S3_domain [IPR000209] (2); Peptidase_SS_proteopeptide/proteinase_inhibitor [IPR010259] (1); Cucumisin-like_catalytic_domain [IPR034197] (1); Peptidase_inhibitor, Ser-active_site [IPR023283] (1)	scaffold_3_mRNA_656.1	C_unshiu_00768_mRNA_11.1	-
GF0021732	1	1	0	Putative vacuolar sorting-associated protein 13B (1); Hypothetical protein (1)	Putative vacuolar sorting-associated protein 13B (1); Hypothetical protein (1)	Vacuolar_protein_sorting-associated_protein_62 [IPR009291] (2); Vacuolar_protein_sorting-associated_protein_13 [IPR026847] (2); PH_domain-like [IPR011993] (2); Vacuolar_protein_sorting-associated_protein_3, SHR-binding_domain [IPR026854] (2); Pleckstrin homology_domain [IPR015642] (2); VPS13_repeated_coiled_region [IPR031642] (2); Vacuolar_protein_sorting-associated_protein_13 [IPR026847] (2); Vacuolar_protein_sorting-associated_protein_3_N-terminal_domain [IPR026854] (1)	scaffold_3_mRNA_633.1	C_unshiu_00128_mRNA_2.1	-
GF0021731	1	1	0	Putative vacuolar sorting-associated protein 13A (2)	Putative vacuolar sorting-associated protein 13A (2)	Vacuolar_protein_sorting-associated_protein_62 [IPR009291] (2); Vacuolar_protein_sorting-associated_protein_13 [IPR026847] (2); PH_domain-like [IPR011993] (2); Vacuolar_protein_sorting-associated_protein_3_N-terminal_domain [IPR026854] (2)	scaffold_3_mRNA_632.1	C_unshiu_02656_mRNA_1.1	-
GF0021729	1	1	0	Heavy metal transport detoxification superfamily protein (2)	metal ion binding [GO:0046872]; molecular_function [2]; metal ion transport [GO:0030001]; biological_process [2]	Heavy_metal-associated_domain_HMA [IPR006121] (2)	scaffold_3_mRNA_6269.1	C_unshiu_00971_mRNA_8.1	-
GF0021728	1	1	0	Hypothetical protein (2)	hypothetical protein (2)	scaffold_3_mRNA_6265.1	C_unshiu_00971_mRNA_4.1	-	
GF0021723	1	1	0	Hypothetical protein (1); Protein WAX2 (1)	Fatty_acid_hydroxylase [IPR006694] (2); Uncharacterized_domain_Wax2_C-terminal [IPR021940] (2)	scaffold_3_mRNA_6255.2	C_unshiu_00206_mRNA_42.1	-	
GF0021722	1	1	0	Hypothetical protein (2)	iron ion binding [GO:0005806]; molecular_function [2]; oxidoreductase activity [GO:0016491]; molecular_function [2]; oxidation-reduction_process [GO:0055114]; biological_process [2]; fatty_acid_biosynthesis [GO:0006633]; biological_process [1]; lipid_biosynthetic_process [GO:0006610]; biological_process [1]	Phytocyanin_domain [IPR003245] (2); Cupredoxin [IPR008972] (2)	scaffold_3_mRNA_6234.1	C_unshiu_00206_mRNA_22.1	-
GF0021719	1	1	0	Blue copper protein (2)	electron_carrier_activity [GO:0009055]; molecular_function [2]	Cupredoxin [IPR008972] (2)	scaffold_3_mRNA_6219.1	C_unshiu_00206_mRNA_6.1	-
GF0021718	1	1	0	Hypothetical protein (2)	nucleic_acid_binding [GO:0003676]; molecular_function [2]	Ribonuclease_H-like_domain [IPR012337] (2)	scaffold_3_mRNA_6206.1	C_unshiu_00014_mRNA_107.1	-

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0021717	1	1	0	Hypothetical protein (2)	protein binding [GO:0046872]; molecular function [2]; nucleotide binding [GO:000166]; molecular function [2]; integral component of membrane [GO:0016021]; cellular component [1]	P-type ATPase, cytoplasmic domain N [IPR023299] (2); Uncharacterized protein family UPF0565 [IPR018881] (2); Cation-transporter, P-type ATPase, N-terminal [IPR00414] (2); P-type ATPase, C-terminal [IPR008250] (2); P-type ATPase, inner membrane domain [IPR023598] (1); P-type ATPase [IPR001757] (1)	scaffold_3_mRNA_6202.1	C_unshiu_00014_mRNA_103.1	-
GF0021716	1	1	0	2-hydroxymuconic semialdehyde hydrolase (2)	carbohydrate metabolic process [GO:000975 biological process] (2); catalytic activity [GO:0003824]; molecular function [2]; oxidase/dehydrogenase activity [GO:0016615]; molecular function [2]; oxiredoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor [GO:000976 biological process] (2); molecular function [2]; nucleotide metabolic process [GO:0019752]; biological process [2]	Alpha/Beta hydrolase fold [IPR029058] (2); Alpha/Beta hydrolase fold-1 [IPR000073] (2)	scaffold_3_mRNA_62.1	C_unshiu_00838_mRNA_7.1	-
GF0021715	1	1	0	Malate dehydrogenase (2)	carbohydrate metabolic process [GO:000975 biological process] (2); catalytic activity [GO:0003824]; molecular function [2]; oxidase/dehydrogenase activity [GO:0016615]; molecular function [2]; oxiredoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor [GO:000976 biological process] (2); molecular function [2]; nucleotide metabolic process [GO:0019752]; biological process [2]	Lactate/malate dehydrogenase, N-terminal [IPR001236] (2); Malate dehydrogenase, active site [IPR001252] (2); Malate dehydrogenase, NAD-dependent, cytosolic [IPR011274] (2); Malate dehydrogenase, NAD-dependent, mitochondrial [IPR011275] (2); Malate dehydrogenase, NAD-dependent, cytosolic [IPR011276] (2); Malate dehydrogenase, NAD-dependent, mitochondrial [IPR011277] (2); Malate dehydrogenase, NAD-dependent, cytosolic [IPR011278] (2); Malate dehydrogenase, C-terminal [IPR001557] (2); L-lactate/malate dehydrogenase [IPR016040] (2)	scaffold_3_mRNA_6175.1	C_unshiu_00014_mRNA_77.1	-
GF0021713	1	1	0	Putative crossover junction endonuclease (2)	rRNA processing [GO:0006364]; biological process [2]; nucleobase-containing compound metabolic process [GO:000139 biological process] (2); nucleic acid binding [GO:0003676]; molecular function [2]	Ribonuclease H-like domain [IPR012337] (2); Putative pre-16S rRNA nuclelease [IPR005227] (2); YggF/RNase H-like domain [IPR006641] (2)	scaffold_3_mRNA_6154.1	C_unshiu_00014_mRNA_61.1	-
GF0021712	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_6152.1	C_unshiu_00014_mRNA_58.1	-
GF0021711	1	1	0	Cytochrome P450 (2)	-	-	scaffold_3_mRNA_6151.2	C_unshiu_00014_mRNA_57.2	-
GF0021709	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_6134.1	C_unshiu_00014_mRNA_42.1	-
GF0021708	1	1	0	SAUR family protein (2)	response to auxin [GO:0009733]; biological process [2]; peptidase activity [GO:00020599]; molecular function [2]; cell wall [GO:0005181 cellular component] (2); cell wall modification [GO:0042545]; biological process [2]; enzyme inhibitor activity [GO:0004857]; molecular function [1]	Small auxin-up RNA [IPR003676] (2)	scaffold_3_mRNA_6133.1	C_unshiu_00014_mRNA_41.1	-
GF0021707	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508]; biological process [2]; aminopeptidase activity [GO:0000177]; molecular function [2]; metallopeptidase activity [GO:008235 molecular function] (2)	Pectinesterase, catalytic [IPR000070] (2); Pectin lyase fold [IPR012334] (2); Pectin lyase fold/virulence factor [IPR011050] (2); Pectinesterase inhibitor domain [IPR006501] (1)	scaffold_3_mRNA_6130.1	C_unshiu_00014_mRNA_38.1	-
GF0021706	1	1	0	Methionyl aminopeptidase (2)	ATP binding [GO:0005524]; molecular function [2]; DNA binding [GO:0005677 molecular function] (2); DNA binding, sequence specific [GO:0006285]; biological process [2]; DNA-dependent ATPase activity [GO:0008094]; molecular function [2]	Pepidase M24, methionine aminopeptidase, subfamily 1 [IPR02467] (2); MYND-like zinc finger, mRNA-binding [IPR031615] (2); Pepidase M24, methionine aminopeptidase [IPR001714] (2); Pepidase M24 [IPR000994] (1); Pepidase M24, structural domain [IPR00994] (1)	scaffold_3_mRNA_6129.1	C_unshiu_00014_mRNA_37.1	-
GF0021705	1	1	0	Hypothetical protein (1); Meiotic recombination protein DMC1 homolog (1)	catalytic activity [GO:0003524]; molecular function [2]; protein binding [GO:0005155 molecular function] (2); aromatic amino acid family metabolic process [GO:0009072]; biological process [2]; cytoplasm [GO:0005737 cellular component] (2)	DNA recombination and repair protein RecA-like, ATP-binding domain [IPR020588] (2); P-loop containing nucleoside triphosphate hydrolase [IPR0013632] (2); DNA recombination and repair protein Rad51, C-terminal [IPR013632] (1); DNA recombination and repair Rad51-like, C-terminal [IPR013632] (1)	scaffold_3_mRNA_6120.1	C_unshiu_00014_mRNA_28.1	-
GF0021704	1	1	0	Glutathione S-transferase zeta class (2)	ATP binding [GO:0005524]; molecular function [2]; DNA binding [GO:0003677 molecular function] (2); DNA binding, sequence specific [GO:0006285]; biological process [2]; DNA-dependent ATPase activity [GO:0008094]; molecular function [2]	Thioredoxin-like fold [IPR012336] (2); Glutathione S-transferase, N-terminal [IPR004045] (2); Glutathione S-transferase, C-terminal-like [IPR010987] (2); Glutathione S-transferase class Zeta [IPR009551] (1); Glutathione S-transferase, class Zeta, N-terminal [IPR034333] (1); Glutathione S-transferase, class Zeta, C-terminal [IPR013632] (1); Glutathione S-transferase, class Zeta, Methylsuccinate isomerase [IPR006555] (1)	scaffold_3_mRNA_6107.1	C_unshiu_00014_mRNA_16.1	-
GF0021702	1	1	0	Putative calcium-binding protein CML25 (2)	calcium ion binding [GO:000509]; molecular function [2]	EF Hand-1, calcium-binding site [IPR018247] (2); EF-hand domain [IPR020048] (2); EF-hand domain pair [IPR011992] (2)	scaffold_3_mRNA_6094.1	C_unshiu_00126_mRNA_49.1	-
GF0021693	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677]; molecular function [2]; nucleus [GO:0005634 cellular component] (1)	Adenosine deaminase/editase [IPR002466] (2)	scaffold_3_mRNA_6010.1	C_unshiu_00018_mRNA_99.1	-
GF0021690	1	1	0	Adenosine deaminase RNA binding, adenosine deaminase, putative isoform 2 (2)	adenosine deaminase activity [GO:0004000 molecular function] (2); RNA binding [GO:0003723 molecular function] (2); RNA processing [GO:0006396 biological process] (2)	Adenosine deaminase/editase [IPR002466] (2)	scaffold_3_mRNA_6032.1	C_unshiu_00018_mRNA_116.1	-
GF0021689	1	1	0	Ripening related protein family (2)	-	-	scaffold_3_mRNA_6003.1	C_unshiu_00018_mRNA_92.1	-
GF0021688	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_6.1	C_unshiu_01604_mRNA_6.1	-
GF0021686	1	1	0	Cysteine synthase (2)	cysteine metabolic process [GO:0014949]; biological process [2]; mitochondrial [GO:0005739 cellular component] (2); L-3-cyanohydramine synthase activity [GO:0005017 molecular function] (2); cysteine synthase activity, processes from serine [GO:0006235 biological process] (2); cysteine synthase activity [GO:0004124 molecular function] (2)	Cysteine synthase CysK [IPR005859] (2); L-3-cyanohydramine synthase, mitochondrial [IPR031111] (2); Cysteine synthase/cystathione beta-synthase, pyridoxal phosphate attachment site [IPR001705] (2); Tryptophan synthase beta-subunit, PLP-dependent enzyme [IPR001926] (2); Cysteine synthase [IPR005556] (2)	scaffold_3_mRNA_5969.1	C_unshiu_00018_mRNA_60.1	-
GF0021685	1	1	0	ATP-dependent helicase BRM (2)	ATP binding [GO:0005524]; molecular function [2]; nucleus [GO:0005634 cellular component] (2); DNA-dependent ATPase activity [GO:0009494 biological process] (2); ATP-dependent chromatin remodeling [GO:0043444 biological process] (2); regulation of gene expression, epigenetic [GO:0009209 biological process] (2); regulation of gene expression, epigenetic [GO:0043444 biological process] (2); regulation of transcription, DNA-templated [GO:0006355 biological process] (2); biological process [2]; protein binding [GO:0005155 molecular function] (1)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); BRAHMA (BRM) ATPase [IPR031056] (2); Glutamine-Leucine-Glutamine, QLQ [IPR014978] (2); Helicase superfamily 1, SNF2-related, N-terminal domain [IPR000130] (2); Helicase, C-terminal [IPR001650] (2); Bromodomain [IPR001487] (1)	scaffold_3_mRNA_5968.1	C_unshiu_00018_mRNA_59.1	-
GF0021684	1	1	0	Ubiquitin-conjugating enzyme E2 5 (2)	Ubiquitin-conjugating enzyme, active site [IPR023113] (2); Ubiquitin-conjugating enzyme/RWD-like [IPR016135] (2); Ubiquitin-conjugating enzyme E2 [IPR000002] (2)	scaffold_3_mRNA_5967.1	C_unshiu_00018_mRNA_58.1	-	
GF0021683	1	1	0	AT-rich interactive domain-containing protein 1 (2)	DNA binding [GO:0003677]; molecular function [2]	Ubiquitin-conjugating enzyme E2 [IPR000002] (2); Ubiquitin-conjugating enzyme [IPR000491] (1)	scaffold_3_mRNA_5966.1	C_unshiu_00018_mRNA_57.1	-
GF0021678	1	1	0	Reticulin-like protein B8 (2)	-	-	scaffold_3_mRNA_5927.1	C_unshiu_00018_mRNA_19.1	-
GF0021677	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_5923.1	C_unshiu_00018_mRNA_15.1	-
GF0021676	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_5914.1	C_unshiu_00026_mRNA_40.1	-
GF0021675	1	1	0	BTB/POZ domain-containing protein POB1 (2)	ATP binding [GO:0005515]; protein binding [GO:0005515 molecular function] (2)	TRAF-like [IPR00874] (2); BTB/POZ domain [IPR002010] (2); BTB/Kelch-associated [IPR011705] (2); SKP1/BTB/POZ domain [IPR011333] (2)	scaffold_3_mRNA_5909.1	C_unshiu_00026_mRNA_43.1	-
GF0021673	1	1	0	Arabinogalactan protein 20 (2)	Arabinogalactan peptide, AGP [IPR009424] (2)	scaffold_3_mRNA_5901.1	C_unshiu_00026_mRNA_51.1	-	
GF0021670	1	1	0	Kinase superfamily protein, putative isoform 1 (1); Kinase superfamily protein, putative isoform 2 (1)	ATP binding [GO:0005524]; molecular function [2]; protein kinase activity [GO:0004672]; molecular function [2]; protein phosphorylation [GO:0006468 biological process] (2)	Protein kinase-like domain [IPR011099] (2); Protein kinase domain [IPR000719] (2); Serine/threonine-protein kinase, active site [IPR008271] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_3_mRNA_589.1	C_unshiu_01817_mRNA_6.1	-
GF0021669	1	1	0	Poly(A) RNA polymerase cd14 (2)	Protein of unknown function DUF1442 [IPR023113] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR009902] (2)	scaffold_3_mRNA_5884.1	C_unshiu_00026_mRNA_66.1	-	
GF0021668	1	1	0	DUF1442 family protein (2)	oxidation-reduction process [GO:005514 biological process] (2); UDP-N-acetylglucosamine dehydrogenase activity [GO:0008762 molecular function] (2)	scaffold_3_mRNA_5871.1	C_unshiu_00026_mRNA_80.1	-	
GF0021667	1	1	0	Hypothetical protein (2)	UDP-N-acetylglucosamine reductase, C-terminal [IPR011601] (2)	scaffold_3_mRNA_5866.1	C_unshiu_00026_mRNA_87.1	-	

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GF0021666	1	1	0	Molybdenum cofactor biosynthesis protein C (2)	Mo-molybdenum cofactor biosynthetic process [GO:0006777]; biological_process [2]	Molybdenum cofactor biosynthesis C (MoxC) domain [IPR002820] (2); Molybdenum cofactor biosynthesis C [IPR023045] (2); Mo-molybdenum cofactor biosynthesis, bacterial-type [IPR023046] (1)	scaffold_3_mRNA_5865.1	C_unshiu_00026_mRNA_88.2	-
GF0021665	1	1	0	Hypothetical protein (2)	-	-	-	-	-
GF0021663	1	1	0	Krueppel-like factor 17 (2)	-	-	scaffold_3_mRNA_5858.1	C_unshiu_00261_mRNA_20.1	-
GF0021660	1	1	0	Spotted leaf protein, putative (2)	protein ubiquitination [GO:0016567]; biological_process [2]; ubiquitin-protein transferase activity [GO:0008482]; molecular_function [2]; protein binding [GO:0005155 molecular_function] (2); binding [GO:0005488 molecular_function] (2)	Armadillo-type fold [IPR016024] (2); Armadillo [IPR000225] (2); U box domain [IPR003613] (2); Armadillo-like helical [IPR011989] (2); Zinc finger, RPLP0/VETSP-type [IPR013083] (2); Powdery mildew-virulence protein, RPW8 domain [IPR008808] (1)	scaffold_3_mRNA_5838.1	C_unshiu_00978_mRNA_2.1	-
GF0021659	1	1	0	Translation initiation factor IF-2 (2)	-	Protein of unknown function DUF4079 [IPR025067] (2)	scaffold_3_mRNA_5833.1	C_unshiu_00978_mRNA_7.1	-
GF0021658	1	1	0	Isoflavone reductase family protein (2)	-	-	scaffold_3_mRNA_5832.1	C_unshiu_00978_mRNA_8.1	-
GF0021657	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_5827.1	C_unshiu_01669_mRNA_2.1	-
GF0021656	1	1	0	Hypothetical protein (1); D-arabinono-1,4-lactone oxidase family protein (1)	oxidation-reduction process [GO:0005130 oxidation_reduction_process] (2); D-arabinono-1,4-lactone oxidase activity [GO:0003885 molecular_function] (2); membrane [GO:0016020 cellular_component] (2); protein binding [GO:0005155 molecular_function] (1)	D-arabinono-1,4-lactone oxidase [IPR007173] (2); L-guluronolactone oxidase, plant [IPR010030] (2); IQ motif, EF-hand binding site [IPR000048] (1)	scaffold_3_mRNA_5811.1	C_unshiu_00023_mRNA_95.1	-
GF0021655	1	1	0	DELLA protein (1); DELLA protein RGL2 (1)	-	Transcription factor GRAS [IPR005202] (2)	scaffold_3_mRNA_580.1	C_unshiu_00318_mRNA_5.1	-
GF0021653	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_5782.1	C_unshiu_00023_mRNA_69.1	-
GF0021652	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_578.1	C_unshiu_00318_mRNA_7.1	-
GF0021650	1	1	0	Nodulin Mn21 family protein (2)	integral component of membrane [GO:0016021 cellular_component] (2); membrane [GO:0016020 cellular_component] (2); transmembrane transporter activity [GO:0022857 molecular_function] (2)	WT1-related protein [IPR030184] (2); EamA domain [IPR00620] (2)	scaffold_3_mRNA_5772.1	C_unshiu_00023_mRNA_56.1	-
GF0021649	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_5741.1	C_unshiu_00023_mRNA_24.1	-
GF0021646	1	1	0	ABC transporter B family member 4 (1); ABC transporter B family member 11 (1)	ATP binding [GO:0005524 molecular_function] (2); transmembrane transport [GO:0005086 biological_process] (2); ATPase activity coupled to substrate movement of substances [GO:0042626 molecular_function] (2); transport integral component of membrane [GO:0016021 cellular_component] (2); integral component of membrane [GO:0016020 cellular_component] (2); ATPase activity [GO:0016887 molecular_function] (2); nucleotide translocase activity, transferring seryl group other than aminoacyl groups [GO:0016747 molecular_function] (1)	ABC transporter, conserved site [IPR017871] (2); AAA+ ATPase domain [IPR003935] (2); ABC transporter type 1, transmembrane domain [IPR011527] (2); ABC transporter-like [IPR003439] (2); ABC transporter-like, gamma-kinase isozyme [IPR014417] (2); triphosphate hydrolase [IPR003480] (2); Transferase [IPR003480] (1); Chloramphenicol acetyltransferase-like domain [IPR023213] (1)	scaffold_3_mRNA_5728.1	C_unshiu_00023_mRNA_11.1	-
GF0021642	1	1	0	Hypothetical protein (2)	-	-	-	-	-
GF0021640	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (2)	B3 DNA binding domain [IPR003340] (2); DNA-binding pseudoborealis domain [IPR003341] (2)	scaffold_3_mRNA_5705.1	C_unshiu_01229_mRNA_1.1	-
GF0021637	1	1	0	Hemopexin (1); Non-LTR reverse transcriptase (1)	-	Endonuclease/exonuclease/phosphatase [IPR005135] (2)	scaffold_3_mRNA_5702.1	C_unshiu_00053_mRNA_67.1	-
GF0021636	1	1	0	Hypothetical protein (2)	-	-	-	-	-
GF0021635	1	1	0	Hypothetical protein (2)	-	-	-	-	-
GF0021634	1	1	0	Hypothetical protein (2)	-	-	-	-	-
GF0021632	1	1	0	Hypothetical protein (2)	heme binding [GO:0020037 molecular_function] (2)	cytochrome c-22'-hydroxy reductase-like, haem-binding domain [IPR019020] (2); cytochrome c-22'-hydroxy reductase-like, haem-binding domain [IPR019020] (2)	scaffold_3_mRNA_5659.1	C_unshiu_00053_mRNA_28.1	-
GF0021631	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_5658.1	C_unshiu_00053_mRNA_27.1	-
GF0021630	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_5654.1	C_unshiu_00053_mRNA_23.1	-
GF0021629	1	1	0	ATP-dependent Clp protease, proteolytic subunit ClpP (2)	proteolysis [GO:0006508 biological_process] (2); serine-type endopeptidase activity [GO:0004252 molecular_function] (2)	Clp protease proteolytic subunit /translocation-enhancing protein TepA [IPR023562] (2); ClpP, Ser active site domain [IPR018215] (2); ClpP/exonuclease domain [IPR005135] (2); ATP-dependent Clp protease proteolytic subunit [IPR001907] (2); ClpP, histidine active site [IPR033135] (2)	scaffold_3_mRNA_5647.1	C_unshiu_00053_mRNA_17.1	-
GF0021626	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_5621.1	C_unshiu_00291_mRNA_22.1	-
GF0021625	1	1	0	DNA-(apurinic or apyrimidinic site) lyase (2)	nuclease activity [GO:0004518 molecular_function] (2); DNA repair, nucleic acid excision [GO:0004519 molecular_function] (2)	AP endonuclease 1 [IPR004808] (2); Endonuclease/exonuclease domain [IPR005135] (2)	scaffold_3_mRNA_5621.1	C_unshiu_00318_mRNA_21.1	-
GF0021622	1	1	0	Cellulose synthase (1); Hypothetical protein (1)	[GO:0030244 biological_process] (1); membrane [GO:0016020 cellular_component] (1); cellulose synthase [UDP-Glomeran] activity [GO:0016760 molecular_function] (1)	Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Nucleotide-diphospho-sugar transferases [IPR029044] (1); Cellulose synthase [IPR005150] (1)	scaffold_3_mRNA_5592.1	C_unshiu_00139_mRNA_1.1	-
GF0021621	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_5587.1	C_unshiu_00007_mRNA_24.1	-
GF0021620	1	1	0	DUF789 family protein (2)	-	-	scaffold_3_mRNA_5586.1	C_unshiu_00139_mRNA_6.1	-
GF0021617	1	1	0	Hypothetical protein (1); Putative proline-rich receptor-like protein kinase PERK11 (1)	ATP binding [GO:0005524 molecular_function] (2); protein kinase activity [GO:0004672 molecular_function] (2); nucleic acid binding [GO:0006468 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2); polyglutamoylase activity [GO:0004650 molecular_function] (1); carbohydrate metabolic process [GO:0005975 biological_process] (1)	Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Nucleotide-diphospho-sugar transferases [IPR029044] (1); Cellulose synthase [IPR005150] (1)	scaffold_3_mRNA_5573.1	C_unshiu_00139_mRNA_15.1	-
GF0021614	1	1	0	Hypothetical protein (2)	catalytic activity [GO:0003824 molecular_function] (2); transaminase activity [GO:0008483 molecular_function] (2); pyridoxal phosphate binding [GO:0030170 molecular_function] (1)	Pyridoxal phosphate-dependent transaminase, major region, subdomain 2 [IPR015422] (1); Aminotransferase-class-III [IPR005814] (1); Pyridoxal phosphate-dependent transference, subdomain 2 [IPR015422] (1)	scaffold_3_mRNA_5565.1	C_unshiu_00662_mRNA_1.1	-
GF0021613	1	1	0	Ribosomal L22e family protein (2)	structure-specific endonuclease of ribosome [GO:0001783 molecular_function] (2); translocation [GO:0006412 biological_process] (2); intracellular [GO:0005622 cellular_component] (2); ribosome [GO:0005840 cellular_component] (2)	Ribosomal protein L22e [IPR002671] (2); scaffold_3_mRNA_5546.1	C_unshiu_00662_mRNA_24.1	-	
GF0021608	1	1	0	Cullin 1 (2)	ubiquitin-dependent protein catalytic process [GO:0006511 biological_process] (2); ubiquitin protein ligase binding [GO:0031625 molecular_function] (2); cullin-RING ubiquitin ligase complex [GO:0031461 cellular_component] (2)	Cullin homolog [IPR016158] (2); Cullin, N-terminal [IPR001173] (2); Cullin protein, nucleotide-binding domain [IPR019559] (2); Cullin repeat-like-containing domain [IPR016159] (2); Winged helix-turn-helix DNA-binding domain [IPR001191] (2); Cullin, N-terminal [IPR019560] (2)	scaffold_3_mRNA_5495.1	C_unshiu_00546_mRNA_2.1	-
GF0021607	1	1	0	DUF1713 domain protein (2)	Domain of unknown function DUF1713, mitochondria [IPR013177] (1); Domain of unknown function DUF1713 [IPR013177] (1)	scaffold_3_mRNA_549.1	C_unshiu_00849_mRNA_18.1	-	
GF0021605	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_5487.1	C_unshiu_00546_mRNA_9.1	-
GF0021604	1	1	0	Hypothetical protein (2)	cell wall lytic enzymes [GO:0045454 biological_process] (2); electron carrier activity [GO:0009555 molecular_function] (2); protein disulfide-oxidoreductase activity [GO:0015035 molecular_function] (2)	Ghitrerodoxin subgroup [IPR014025] (2); Thioredoxin-like fold [IPR012336] (2); Ghitrerodoxin [IPR002119] (2); Ghitrerodoxin-like, plant II [IPR011905] (2)	scaffold_3_mRNA_5483.1	C_unshiu_00546_mRNA_13.1	-
GF0021602	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2)	FHY3/FAR1 family [IPR031052] (2); FAR1 DNA binding domain [IPR004330] (2)	scaffold_3_mRNA_5468.1	C_unshiu_00251_mRNA_17.1	-
GF0021601	1	1	0	Hypothetical protein (2)	Serine endopeptidase DegP2 [IPR015724] (1)	Serine endopeptidase DegP2 [IPR015724] (1)	scaffold_3_mRNA_5467.1	C_unshiu_00817_mRNA_8.1	-
GF0021595	1	1	0	Sugar transporter ERD6-like 16 (1); Sugar transporter ERD6-like 7 (1)	transmembrane transport [GO:0055085 biological_process] (2); integral component of membrane [GO:0016021 cellular_component] (2); transmembrane transporter activity [GO:0022857 molecular_function] (2); protein kinase activity [GO:0006472 molecular_function] (1); protein phosphorylation [GO:0006468 biological_process] (1)	Major facilitator, sugar transporter-like [IPR005282] (2); Major facilitator sugar-transporter-like domain [IPR020384] (2); Protein kinase-like domain [IPR011009] (1); Serine-threonine-tyrosine-protein kinase, catalytic domain [IPR001245] (1)	scaffold_3_mRNA_5434.1	C_unshiu_00069_mRNA_21.1	-
GF0021590	1	1	0	PALE CRESS protein (PAC) (2)	PALE CRESS [IPR034563] (1)	Protein PALE CRESS [IPR034563] (1)	scaffold_3_mRNA_5401.1	C_unshiu_00069_mRNA_52.1	-

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>	
GF0021587	1	1	0	Glutathione peroxidase (2)	oxidation-reduction process [GO:0055114 biological_process] (2); response to oxidative stress [GO:0006979 biological_process] (2); glutathione peroxidase activity [GO:0004602 molecular_function] (2)	Glutathione peroxidase active site [IPR029759] (2); Glutathione peroxidase [IPR000891] (2); Thiodioquin-like fold [IPR012356] (2); Glutathione peroxidase conserved site [IPR029760] (2)	scaffold_3_mRNA_5395.2	C_unshiu_00069_mRNA_57.1	-	
GF0021586	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508 biological_process] (2); cysteine-type peptidase activity [GO:0008234 molecular_function] (2)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (2)	scaffold_3_mRNA_5384.1	C_unshiu_00069_mRNA_68.1	-	
GF0021585	1	1	0	Hypothetical protein (2)	WD repeat-containing protein 82 (2)	WD40 repeat [IPR011680] (2); WD40-repeat-containing domain [IPR017986] (2); C-protein beta WD40 repeat [IPR020472] (2); WD40 YN/TN repeat-like-containing domain [IPR005943] (1)	scaffold_3_mRNA_5379.1	C_unshiu_00069_mRNA_73.1	-	
GF0021584	1	1	0	WD repeat-containing protein 82 (2)	protein binding [GO:0005515 molecular_function] (2)	[IPR010002] (2); Postecapeptide repeat [IPR02855] (2); DY W domain [IPR032667] (2)	scaffold_3_mRNA_5372.1	C_unshiu_01525_mRNA_3.1	-	
GF0021583	1	1	0	Hypothetical protein (2)	0 family protein (1); Postecapeptide (PPR) repeat protein (1)	Homecysteine-binding domain [IPR003726] (2)	scaffold_3_mRNA_5354.1	C_unshiu_02585_mRNA_1.1	-	
GF0021580	1	1	0	Hypothetical protein (2)	0	Homocysteine S-methyltransferase 3 (2)	scaffold_3_mRNA_5317.1	C_unshiu_00330_mRNA_33.1	-	
GF0021574	1	1	0	Homocysteine S-methyltransferase 3 (2)	Penatricopeptide repeat-containing protein binding [GO:0005515 molecular_function] (2)	Striatin-repeat-like helical domain [IPR010002] (2); Postecapeptide repeat [IPR02855] (2); DY W domain [IPR032667] (2)	scaffold_3_mRNA_5296.1	C_unshiu_00217_mRNA_20.1	-	
GF0021570	1	1	0	Hypothetical protein (2)	0	Large open boundaries, LOB [IPR010002] (2)	scaffold_3_mRNA_5258.1	C_unshiu_00869_mRNA_6.1	-	
GF0021567	1	1	0	Hypothetical protein (2)	LOB domain-containing protein 16 (2)	Decoy-type diaphorase synthase-like [IPR001441] (2); Di-trans-poly-cis-decrepanoictransfase-like; conserved site [IPR018520] (1)	scaffold_3_mRNA_5237.1	C_unshiu_00742_mRNA_6.1	-	
GF0021563	1	1	0	LOB domain-containing protein 16 (2)	transferease activity, transferring alkyl or aryl (other than methyl) groups [GO:0016765 molecular_function] (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); transcription factor activity, sequence-specific DNA binding [GO:0007700 molecular_function] (2); DNA binding [GO:0003677 molecular_function] (2)	scaffold_3_mRNA_5225.1	C_unshiu_00411_mRNA_20.1	-	
GF0021561	1	1	0	Alkyl transferase (2)	transferease activity, transferring alkyl or aryl (other than methyl) groups [GO:0016765 molecular_function] (2)	AP2/ERF domain [IPR001471] (2); DNA-binding domain [IPR016177] (2)	scaffold_3_mRNA_5217.1	C_unshiu_00411_mRNA_18.1	-	
GF0021558	1	1	0	Ethylene-responsive transcription factor ERF998 (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); transcription factor activity, sequence-specific DNA binding [GO:0007700 molecular_function] (2); DNA binding [GO:0003677 molecular_function] (2)	scaffold_3_mRNA_5184.1	C_unshiu_00820_mRNA_10.1	-		
GF0021555	1	1	0	Hypothetical protein (2)	0	Vacuolar protein sorting-associated protein 62 [IPR009291] (2)	scaffold_3_mRNA_5173.1	C_unshiu_00659_mRNA_6.1	-	
GF0021553	1	1	0	Hypothetical protein (2)	0	AmbAllergen [IPR018082] (2); Pectin lyase fold [IPR012334] (2); Pectate lyase fold [IPR002022] (2); Pectin lyase/amb allergen [IPR001190] (2)	scaffold_3_mRNA_5143.1	C_unshiu_00152_mRNA_28.1	-	
GF0021551	1	1	0	Hypothetical protein (2)	0	AmBAllergen [IPR018082] (2); Pectin lyase fold [IPR012334] (2); Pectate lyase/amb allergen [IPR001190] (2)	scaffold_3_mRNA_5140.1	C_unshiu_00216_mRNA_27.1	-	
GF0021550	1	1	0	Hypothetical protein (2)	0	vacuolar protein sorting-associated protein 62 [IPR009291] (2)	scaffold_3_mRNA_51.1	C_unshiu_00916_mRNA_14.1	-	
GF0021548	1	1	0	Hypothetical protein (2)	0	vacuolar protein sorting-associated protein 62 [IPR009291] (2)	scaffold_3_mRNA_5096.1	C_unshiu_00400_mRNA_7.1	-	
GF0021547	1	1	0	Hypothetical protein (2)	0	Alpha/Beta hydrolases-like superfamily protein, putative (2)	scaffold_3_mRNA_5087.1	C_unshiu_00400_mRNA_16.1	-	
GF0021546	1	1	0	Pectate lyase (2)	0	Alpha/beta/alpha sandwich fold [IPR014729] (2)	scaffold_3_mRNA_5085.1	C_unshiu_00400_mRNA_18.1	-	
GF0021545	1	1	0	Hypothetical protein (2)	0	Alpha/beta/alpha sandwich fold [IPR014729] (2)	scaffold_3_mRNA_507.1	C_unshiu_00120_mRNA_18.1	-	
GF0021544	1	1	0	Adenine nucleotide alpha hydrolases-like superfamily protein, putative (2)	response to stress [GO:0006950 biological_process] (2)	UpA [IPR006016] (2); Rossman-like alpha/beta/beta sandwich fold [IPR017907] (2); Zinc finger, RING-type [IPR0040433] (2); Zinc finger, ZZ-type [IPR012344] (2); Zinc finger, RING-type zinc-finger, Lish dimerization motif [IPR027370] (1)	scaffold_3_mRNA_5060.1	C_unshiu_00322_mRNA_41.1	-	
GF0021543	1	1	0	E3 ubiquitin-protein ligase PRT1-like protein (1); E3 ubiquitin-protein ligase PRT1 (1)	protein binding [GO:0005515 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (2)	Zinc finger, CCHC-type [IPR018506] (2); Zinc finger, CCHC-type, conserved site [IPR017907] (2); Zinc finger, RING-type zinc-finger, Lish dimerization motif [IPR027370] (1)	scaffold_3_mRNA_5054.1	C_unshiu_00322_mRNA_33.1	-	
GF0021542	1	1	0	Cytochrome b5 (2)	heme binding [GO:0020037 molecular_function] (2)	Zinc finger, CCHC-type, heme-binding site [IPR018506] (2); Cytochrome b5-like heme/stabilizing domain [IPR001199] (2)	scaffold_3_mRNA_5046.1	C_unshiu_00322_mRNA_23.1	-	
GF0021541	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR023337] (2)	scaffold_3_mRNA_5035.1	C_unshiu_00322_mRNA_14.1	-	
GF0021538	1	1	0	Stigma-specific Stig1 family protein, putative (2)	nucleic acid binding [GO:0004654 molecular_function] (2); nucleic acid binding [GO:0006576 biological_process] (2)	Stigma-specific protein Stig1 [IPR006691] (2)	scaffold_3_mRNA_5028.1	C_unshiu_00322_mRNA_6.1	-	
GF0021536	1	1	0	Hypothetical protein (2)	0	K homology domain [IPR004088] (2); PNase/PNase PH domain [IPR027408] (2); Ribosomal protein S2 [IPR002022] (2); Zinc finger, CCHC-type [IPR006568] (2); Zinc finger, CCHC-type, phosphodiesterase, phosphodiesterase domain 1 [IPR021427] (2); Nucleic acid-binding, OB-fold [IPR012340] (2); S1 domain [IPR003629] (2); Exoribonuclease, phosphodiesterase domain 2 [IPR015847] (2); A1 domain [IPR004087] (2); RNA-binding domain, S1 [IPR022667] (2); Polyribonuclease nucleotidyltransferase [IPR012162] (2); Polyribonuclease nucleotidyltransferase, RNA-binding domain [IPR015848] (1)	scaffold_3_mRNA_4990.1	C_unshiu_00247_mRNA_7.1	-	
GF0021531	1	1	0	Polyribonucleotide nucleotidyltransferase (2)	RNA binding [GO:0003723 molecular_function] (2); polyribonucleotide nucleotidyltransferase activity [GO:0004654 molecular_function] (2); nucleic acid binding [GO:0006576 molecular_function] (2); mRNA catabolism process [GO:0006402 biological_process] (2); RNA processing [GO:0006396 biological_process] (1); 5'-nucleotidase activity [GO:0000175 molecular_function] (1)	Major intrinsic protein [IPR000425] (2); Aquaporin-like [IPR023271] (2); Aquaporin transporter [IPR034294] (1)	scaffold_3_mRNA_4962.1	C_unshiu_01337_mRNA_6.1	-	
GF0021529	1	1	0	Hypothetical protein (2)	0	Polyribonucleotide nucleotidyltransferase (2)	scaffold_3_mRNA_4963.1	C_unshiu_01914_mRNA_4.1	-	
GF0021524	1	1	0	Hypothetical protein (2)	0	P-loop nucleoside triphosphate hydrolase [IPR027417] (2); Helicase superfamily 1/2, ATP-binding domain [IPR014601] (1)	scaffold_3_mRNA_4896.1	C_unshiu_00194_mRNA_43.1	-	
GF0021523	1	1	0	Hypothetical protein (2)	0	transporter activity [GO:0005215 molecular_function] (2); membrane transport [GO:0016200 cellular_component] (2); transport [GO:0006810 biological_process] (2)	Major intrinsic protein [IPR000425] (2); Aquaporin-like [IPR023271] (2); Aquaporin transporter [IPR034294] (1)	scaffold_3_mRNA_4883.1	C_unshiu_00735_mRNA_12.1	-
GF0021522	1	1	0	Small basic intrinsic protein 1 (2)	0	Major intrinsic protein [IPR000425] (2); Aquaporin-like [IPR023271] (2); Aquaporin transporter [IPR034294] (1)	scaffold_3_mRNA_4877.1	C_unshiu_01780_mRNA_2.1	-	
GF0021521	1	1	0	Dna-directed RNA polymerase subunit alpha (2)	nucleic acid binding activity [GO:0045735 molecular_function] (2); manganese ion binding [GO:0030145 molecular_function] (2)	RmC-like cupin domain [IPR011051] (2); Germin [IPR001929] (2); RmC-like jelly roll fold [IPR014710] (2); Cupin 1 [IPR006645] (2); Germin, manganese binding site [IPR019780] (2)	scaffold_3_mRNA_4853.1	C_unshiu_00124_mRNA_3.1	-	
GF0021517	1	1	0	Germinal-like protein subfamily 1 member 7 (2)	nucleic acid binding activity [GO:0045735 molecular_function] (2); manganese ion binding [GO:0030145 molecular_function] (2)	RmC-like cupin domain [IPR011051] (2); Germin [IPR001929] (2); RmC-like jelly roll fold [IPR014710] (2); Cupin 1 [IPR006645] (2); Germin, manganese binding site [IPR019780] (2)	scaffold_3_mRNA_4852.1	C_unshiu_01527_mRNA_4.1	-	
GF0021516	1	1	0	Hypothetical protein (2)	0	RmC-like cupin domain [IPR011051] (2); Germin [IPR001929] (2); RmC-like jelly roll fold [IPR014710] (2); Cupin 1 [IPR006645] (2); Germin, manganese binding site [IPR019780] (2)	scaffold_3_mRNA_4824.1	C_unshiu_00491_mRNA_20.1	-	
GF0021515	1	1	0	Hypothetical protein (2)	0	RmC-like cupin domain [IPR011051] (2); Germin [IPR001929] (2); RmC-like jelly roll fold [IPR014710] (2); Cupin 1 [IPR006645] (2); Germin, manganese binding site [IPR019780] (2)	scaffold_3_mRNA_4823.1	C_unshiu_00491_mRNA_21.1	-	
GF0021514	1	1	0	Hypothetical protein (2)	0	RmC-like cupin domain [IPR011051] (2); Germin [IPR001929] (2); RmC-like jelly roll fold [IPR014710] (2); Cupin 1 [IPR006645] (2); Germin, manganese binding site [IPR019780] (2)	scaffold_3_mRNA_4822.1	C_unshiu_00491_mRNA_22.1	-	
GF0021508	1	1	0	Hypothetical protein (2)	0	RmC-like cupin domain [IPR011051] (2); Germin [IPR001929] (2); RmC-like jelly roll fold [IPR014710] (2); Cupin 1 [IPR006645] (2); Germin, manganese binding site [IPR019780] (2)	scaffold_3_mRNA_48.1	C_unshiu_01237_mRNA_8.1	-	
GF0021507	1	1	0	Cytochrome P450 83B1 (2)	oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); hemoglobin binding [GO:0006810 molecular_function] (2); iron ion binding [GO:0000506 molecular_function] (2)	Cytochrome P450 [IPR00128] (2); Cytochrome P450, 1C-class, group 1 [IPR002401] (2); Cytochrome P450, conserved site [IPR017972] (2)	scaffold_3_mRNA_4779.1	C_unshiu_00566_mRNA_3.1	-	
GF0021503	1	1	0	DUF313 domain protein (1); Hypothetical protein (1)	0	DNA-binding pseudobarrel domain [IPR015300] (2); B3 domain-containing protein [IPR005508] (2)	scaffold_3_mRNA_4709.1	C_unshiu_00727_mRNA_5.1	-	
GF0021502	1	1	0	Hypothetical protein (2)	0	DNA-binding pseudobarrel domain [IPR015300] (2); B3 domain-containing protein [IPR005508] (2)	scaffold_3_mRNA_4656.1	C_unshiu_00862_mRNA_5.1	-	
GF0021501	1	1	0	Hypothetical protein (2)	0	DNA-binding pseudobarrel domain [IPR015300] (2); B3 domain-containing protein [IPR005508] (2)	scaffold_3_mRNA_4642.1	C_unshiu_02772_mRNA_3.1	-	
GF0021499	1	1	0	Putative serine/threonine-protein kinase GCN2 (1); Histidyl tRNA synthetase (1)	cytoplasm [GO:0005737 cellular_component] (1)	Anticodon-binding [IPR004154] (2); Histidine-tRNA ligase/ATP phosphotransferase regulatory subunit [IPR004516] (1); Protein kinase-like domain [IPR011009] (1); Histidyl tRNA synthetase-related domain [IPR024455] (1)	scaffold_3_mRNA_4619.1	C_unshiu_00680_mRNA_11.1	-	
GF0021498	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1); protein dimerization activity [GO:0046983 molecular_function] (1); DNA binding [GO:0003677 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2); hAT-hk transposase, RNase-H fold [IPR025525] (2); Zinc finger, BED-type [IPR003656] (2); HAT, C-terminal dimerisation domain [IPR00806] (2); Zinc finger, CCHC-type [IPR001878] (1); tRNA synthetase-related domain [IPR024455] (1)	scaffold_3_mRNA_4610.1	C_unshiu_00680_mRNA_18.1	-	
GF0021497	1	1	0	Zinc finger-BED domain-containing protein RICESSLTPER 2 (1); BED zinc finger-HAT family dimerization domain isoform 1 (1)	nucleic acid binding [GO:0003676 molecular_function] (1); protein dimerization activity [GO:0046983 molecular_function] (1); DNA binding [GO:0003677 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2); hAT-hk transposase, RNase-H fold [IPR025525] (2); Zinc finger, BED-type [IPR003656] (2); HAT, C-terminal dimerisation domain [IPR00806] (2); Zinc finger, CCHC-type [IPR001878] (1); tRNA synthetase-related domain [IPR024455] (1)	scaffold_3_mRNA_4594.1	C_unshiu_00552_mRNA_4.1	-	
GF0021496	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular_function] (1); protein binding [GO:0005515 molecular_function] (1); nucleic acid binding [GO:0003676 molecular_function] (1); nucleic acid binding [GO:0003677 molecular_function] (2)	Domain of unknown function DUF4283 [IPR025558] (2); Zinc knuckle CX2CX4HX4C [IPR025835] (1); Zinc finger, CCHC-type [IPR001878] (1); C-terminal domain [IPR010402] (1)	scaffold_3_mRNA_4579.1	C_unshiu_00575_mRNA_9.1	-	
GF0021494	1	1	0	Hypothetical protein (2)	0	Domain of unknown function DUF4283 [IPR025558] (2); Zinc knuckle CX2CX4HX4C [IPR025835] (1); Zinc finger, CCHC-type [IPR001878] (1); C-terminal domain [IPR010402] (1)	scaffold_3_mRNA_4574.1	C_unshiu_01878_mRNA_5.1	-	
GF0021493	1	1	0	Hypothetical protein (2)	RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2); Ribonuclease H domain scaffold_3_mRNA_4574.1	C_unshiu_002156_mRNA_2	-		

ID	Num. in <i>C. clementine</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliae</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliae</i>
GF0021492	1	1	0	Hypothetical protein (2)	magnesium ion binding [GO:0000287 molecular function] (2); terpene synthase activity [GO:0010333 molecular function] (2); lyase activity [GO:0008292 molecular function] (2); metabolic process [GO:0008152 biological process] (2)	Reverse transcriptase domain [IPR00477] (2); Terpene synthase, metal-binding domain [IPR005630] (2); Terpene synthase, N-terminal domain [IPR001906] (2); Terpene synthase, C-terminal domain [IPR008949] (2); Enzyme/transfase-alpha-alpha tetrad domain [IPR008949] (2); Copine [IPR010734] (2); von Willebrand factor, type A [IPR002035] (2); Zinc finger, RING-FYVE/PHD-type [IPR013083] (1); Zinc finger, RING-type [IPR001841] (1)	scaffold_3_mRNA_4573.1	C_unshiu_01878_mRNA_4.1	-
GF0021491	1	1	0	Isoprene synthase (2)	protein binding [GO:0005515 molecular function] (1); zinc ion binding [GO:0008270 molecular function] (1)	Zinc finger, RING-FYVE/PHD-type [IPR004567] (2); Zinc finger, C-terminal dimerisation domain [IPR008906] (2); Zinc finger, BED-type [IPR003656] (1)	scaffold_3_mRNA_4572.1	C_unshiu_00523_mRNA_7.1	-
GF0021490	1	1	0	E3 ubiquitin-protein ligase RGLG2 (2)	nucleic acid binding [GO:0003676 molecular function] (2); protein dimerization activity [GO:0046983 molecular function] (2); DNA binding [GO:0008577 molecular function] (1)	Zinc finger, BED-type [IPR004565] (2); Zinc finger, C-terminal dimerisation domain [IPR012337] (2); HAT, C-terminal dimerisation domain [IPR008906] (2); Zinc finger, BED-type [IPR003656] (1)	scaffold_3_mRNA_4562.1	C_unshiu_00523_mRNA_16.1	-
GF0021487	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular function] (2); nucleic acid binding [GO:0003676 molecular function] (1)	Zinc finger, RING-FYVE/PHD-type [IPR004566] (2); Zinc finger, C-terminal dimerisation domain [IPR008906] (2); Zinc finger, BED-type [IPR012337] (1)	scaffold_3_mRNA_4538.1	C_unshiu_00522_mRNA_7.1	-
GF0021485	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0046983 molecular function] (2); nucleic acid binding [GO:0003676 molecular function] (1)	Zinc finger, BED-type [IPR004565] (2); Zinc finger, C-terminal dimerisation domain [IPR008906] (2); Zinc finger, BED-type [IPR012337] (1)	scaffold_3_mRNA_4519.1	C_unshiu_00502_mRNA_10.1	-
GF0021484	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_4516.1	C_unshiu_00912_mRNA_19.1	-
GF0021483	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_4511.1	C_unshiu_00502_mRNA_15.1	-
GF0021481	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0046983 molecular function] (2); nucleic acid binding [GO:0003676 molecular function] (1)	HAT, C-terminal dimerisation domain [IPR008906] (2); Ribonuclease H-like domain [IPR008906] (2); Ribonuclease H-like domain [IPR012337] (1)	scaffold_3_mRNA_4504.1	C_unshiu_00502_mRNA_20.1	-
GF0021480	1	1	0	C6H-type zinc finger RING/U-box protein (2)	protein ubiquitination [GO:0016567 biological process] (2); ubiquitin-protein transferase activity [GO:0004842 molecular function] (2)	IBR domain [IPR002867] (2); Zinc finger, RING-FYVE/PHD-type [IPR013083] (2); Zinc finger, RING-type, conserved site [IPR017907] (1); E3 ubiquitin ligase RBR family [IPR031127] (2)	scaffold_3_mRNA_4487.1	C_unshiu_00471_mRNA_18.1	-
GF0021474	1	1	0	Polygalacturonase 1 beta-like protein 1 (2)	chitin catabolic process [GO:0006032 biological process] (2); carbohydrate metabolic process [GO:0009575 biological process] (2); chitinase activity [GO:0006031 molecular function] (2); cell wall macromolecule catabolic process [GO:0016998 biological process] (2)	BURP domain [IPR004873] (2)	scaffold_3_mRNA_442.1	C_unshiu_00092_mRNA_57.1	-
GF0021473	1	1	0	Chitinase (2)	chitin catabolic process [GO:0006032 biological process] (2); carbohydrate metabolic process [GO:0009575 biological process] (2); chitinase activity [GO:0006031 molecular function] (2); cell wall macromolecule catabolic process [GO:0016998 biological process] (2)	Glycoside hydrolase, family 19, catalytic [IPR000726] (2); Lysozyme-like domain [IPR023346] (2); Glycoside hydrolase, family 19 [IPR016283] (2)	scaffold_3_mRNA_4415.1	C_unshiu_00054_mRNA_11.1	-
GF0021471	1	1	0	Class IV chitinase (2)	chitin catabolic process [GO:0006032 biological process] (2); chitin binding [GO:0008061 molecular function] (2); chitinase activity [GO:0004568 molecular function] (2); chitinase activity [GO:0006031 molecular function] (2)	Chitin-binding, type I [IPR001002] (2); Glycoside hydrolase, family 19, catalytic [IPR000726] (2); Lysozyme-like domain [IPR023346] (2); Glycoside hydrolase, family 19 [IPR016283] (2)	scaffold_3_mRNA_4410.1	C_unshiu_00054_mRNA_15.1	-
GF0021469	1	1	0	Hypothetical protein (2)	-	Myb-like domain [IPR017877] (2); Homeodomain-like [IPR006057] (1); Homeobox-domain [IPR009057] (1)	scaffold_3_mRNA_4396.1	C_unshiu_02214_mRNA_1.1	-
GF0021468	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular function] (2)	Myb-like domain [IPR017877] (2); Homeodomain-like [IPR006057] (1); Homeobox-domain [IPR009057] (1)	scaffold_3_mRNA_4392.1	C_unshiu_00054_mRNA_31.1	-
GF0021466	1	1	0	Hypothetical protein (2)	ADP binding [GO:0043531 molecular function] (1)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1); NB-ARC domain [IPR00182] (1); Leucine-rich repeat domain, L domain-like [IPR032675] (1)	scaffold_3_mRNA_4385.1	C_unshiu_00054_mRNA_38.1	-
GF0021465	1	1	0	Hypothetical protein (2)	protein kinase activity [GO:0004672 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (2); ATP binding [GO:0005524 molecular function] (2)	Protein kinase domain [IPR000719] (2); Protein kinase-like domain [IPR011009] (2)	scaffold_3_mRNA_4382.1	C_unshiu_00054_mRNA_40.1	-
GF0021463	1	1	0	Hypothetical protein (1); Probable protein phosphatase 2C 11 (1)	protein serine/threonine phosphatase activity [GO:0004724 molecular function] (2); protein dephosphorylation [GO:0006470 biological process] (2); cation binding [GO:004169 molecular function] (2); catalytic activity [GO:0003824 molecular function] (2)	PPM-type phosphatase, divalent cation binding [IPR000222] (2); Protein phosphatase 2C family [IPR0015655] (2); scaffold_3_mRNA_4352.1	scaffold_3_mRNA_4322.1	C_unshiu_02225_mRNA_3.1	-
GF0021462	1	1	0	Hypothetical protein (2)	-	Protein of unknown function DUF247, plant [IPR001518] (2)	scaffold_3_mRNA_4345.1	C_unshiu_00528_mRNA_23.1	-
GF0021461	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (1)	Ribonuclease H-like domain [IPR012337] (1); C2 domain [IPR000008] (2); Domain of unknown function DUF4782 [IPR031968] (1); VAS1 domain [IPR017690] (1)	scaffold_3_mRNA_4339.1	C_unshiu_01712_mRNA_4.1	-
GF0021460	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular function] (2)	Transcription factor IS, N-terminal [IPR017022] (2); Transcription elongation factor S-1, central domain [IPR003618] (2); Transcription elongation factor, THIIS-CRSP70, N-terminal subunit [IPR003617] (2); Transcription elongation factor S-1M [IPR017690] (1)	scaffold_3_mRNA_4333.1	C_unshiu_00528_mRNA_6.1	-
GF0021459	1	1	0	Transcription elongation factor s-II, putative (2)	transcription, DNA-templated [GO:0006351 biological process] (2); nucleic acid binding [GO:0003677 molecular function] (1); DNA binding [GO:0003677 molecular function] (1)	Transcription factor IS, N-terminal [IPR017022] (2); Transcription elongation factor S-1, central domain [IPR003618] (2); Transcription elongation factor, THIIS-CRSP70, N-terminal subunit [IPR003617] (2); Transcription elongation factor S-1M [IPR017690] (1)	scaffold_3_mRNA_4326.1	C_unshiu_01481_mRNA_5.1	-
GF0021458	1	1	0	F-box/RNF-like superfamily protein isoform 1 (1); F-box/RNF-like superfamily protein isoform 2 (1)	protein binding [GO:0005515 molecular function] (2)	F-box domain [IPR001810] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_3_mRNA_4324.1	C_unshiu_00528_mRNA_2.1	-
GF0021457	1	1	0	Hypothetical protein (2)	-	Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_3_mRNA_4323.1	C_unshiu_01481_mRNA_2.1	-
GF0021456	1	1	0	Hypothetical protein (2)	-	Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_3_mRNA_4320.1	C_unshiu_00902_mRNA_9.1	-
GF0021455	1	1	0	Hypothetical protein (2)	transport [GO:0006810 biological process] (2); intracellular [GO:0005622 cellular component] (2); ER to Golgi vesicle-mediated transport [GO:0006888 biological process] (2)	Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_3_mRNA_4318.1	C_unshiu_00902_mRNA_5.1	-
GF0021453	1	1	0	Trafficking protein particle complex subunit 2 (2)	-	Longin-like domain [IPR011012] (2); Trafficking protein particle complex subunit 2 [IPR006722] (2)	scaffold_3_mRNA_4310.1	C_unshiu_00712_mRNA_6.1	-
GF0021452	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_4308.1	C_unshiu_01667_mRNA_3.1	-	
GF0021450	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_4305.1	C_unshiu_00631_mRNA_8.1	-	
GF0021449	1	1	0	Hypothetical protein (2)	binding [GO:0005488 molecular function] (1)	Armadillo-like helical [IPR001989] (1); Armadillo-type fold [IPR016024] (1)	scaffold_3_mRNA_4297.1	C_unshiu_00712_mRNA_8.1	-
GF0021448	1	1	0	Putative Zea mays retrotransposon Opie-2 (1); SLG-Sc and SLA-Sc genes and Melnhm retrotransposon sequence (1)	Reverse transcriptase, RNA-dependent DNA polymerase [IPR013103] (2)	Reverse transcriptase, RNA-dependent DNA polymerase [IPR013103] (2)	scaffold_3_mRNA_4292.1	C_unshiu_01158_mRNA_2.1	-
GF0021447	1	1	0	Hypothetical protein (2)	retrotranscriptase, gag domain [IPR005162] (2)	Retrotanscriptase, RNA-dependent DNA polymerase [IPR013103] (2)	scaffold_3_mRNA_4286.1	C_unshiu_01093_mRNA_6.1	-
GF0021446	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_4278.1	C_unshiu_00518_mRNA_10.1	-	
GF0021445	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524 molecular function] (1)	Malatein [IPR017270] (2); Concansaccharide A-like lectin/glycanase domain [IPR013320] (1); Protein kinase-like domain [IPR011009] (1); Protein kinase, ATP binding site [IPR017441] (1)	scaffold_3_mRNA_4272.1	C_unshiu_00180_mRNA_5.1	-
GF0021444	1	1	0	Hypothetical protein (2)	transcription coactivator activity [GO:0003713 molecular function] (2); regulation of transcription, DNA-templated [GO:0006355 biological process] (2)	Associate of Myc 1 [IPR026060] (2)	scaffold_3_mRNA_4248.1	C_unshiu_00174_mRNA_3.1	-
GF0021442	1	1	0	Hypothetical protein (2)	-	Reverse transcriptase domain [IPR000477] (2); Endonuclease/exonuclease/phosphatase [IPR005135] (1)	scaffold_3_mRNA_4232.1	C_unshiu_00672_mRNA_17.1	-
GF0021440	1	1	0	RNA-directed DNA polymerase (Reverse transcriptase) (2)	-	Reverse transcriptase domain [IPR000477] (2); Endonuclease/exonuclease/phosphatase [IPR005135] (1)	scaffold_3_mRNA_4216.1	C_unshiu_00232_mRNA_20.1	-
GF0021439	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_4211.1	C_unshiu_01551_mRNA_6.1	-	
GF0021437	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_4198.1	C_unshiu_00514_mRNA_2.1	-	
GF0021435	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_4193.1	C_unshiu_01953_mRNA_3.1	-	
GF0021434	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_4179.1	C_unshiu_00392_mRNA_8.1	-	
GF0021433	1	1	0	Hypothetical protein (2)	Domain of unknown function DUF4283 [IPR025559] (2); Reverse transcriptase domain [IPR000477] (1)	scaffold_3_mRNA_4175.1	C_unshiu_00392_mRNA_3.1	-	
GF0021432	1	1	0	Hypothetical protein (2)	Zinc knuckle CX2CX4Hx4C [IPR025836] (2)	scaffold_3_mRNA_4172.1	C_unshiu_00669_mRNA_15.1	-	
GF0021430	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_4139.1	C_unshiu_00080_mRNA_14.1	-	
GF0021429	1	1	0	Similarity to non-LTR retroelement reverse transcriptase (2)	-	Diphospho-ammonia ligase/Uncharacterized protein MJ0570 [IPR030662] (2); Diphosphamide synthase domain [IPR000276] (2)	scaffold_3_mRNA_4138.1	C_unshiu_00080_mRNA_12.1	-
GF0021428	1	1	0	Endoribonuclease (2)	Yifg-YEPR7c/UK114-like [IPR014729] (2); Recombinase-like [IPR014729] (2); Endoribonuclease L-PSP/chromatin matase-like [IPR013813] (2)	scaffold_3_mRNA_4134.1	C_unshiu_00080_mRNA_8.1	-	

ID	Num in <i>C. clementiae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0021427	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508]; biological_process [1]; aspartic-type endopeptidase activity [GO:0004190]; molecular_function [2]	Aspartic peptidase domain [IPR021109]; (2); Aspartic peptidase, active site [IPR001669] (2)	scaffold_3_mRNA_4131.1	C_unshiu_00080_mRNA_5.1	-
GF0021426	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_4124.1	C_unshiu_00767_mRNA_6.1	-
GF0021425	1	1	0	Cysteine-rich RLK 29 isoform 1 (2)	protein kinase activity [GO:0004672]; molecular_function [2]; protein phosphorylation [GO:0006468]; biological_process [1]; ATP binding [GO:0005524]; molecular_function [2]	Protein kinase-like domain [IPR011009]; (2); Serine/threonine-protein kinase, active site [IPR008271] (2); Serine/threonine/protein kinase, catalytic domain [IPR001245] (1); Serine/threonine/protein kinase, catalytic domain [IPR001245] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_3_mRNA_4123.1	C_unshiu_00767_mRNA_7.1	-
GF0021423	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_4118.1	C_unshiu_00767_mRNA_12.1	-
GF0021421	1	1	0	Copper-binding periplasmic protein (2)	-	-	scaffold_3_mRNA_4101.1	C_unshiu_01155_mRNA_2.1	-
GF0021420	1	1	0	Zinc finger protein-related isoform 1 (2)	zinc ion binding [GO:0008270]; molecular_function [2]; protein binding [GO:0005315]; molecular_function [2]	Zinc finger, RING-type [IPR001841] (2); Zinc finger, CHY-type [IPR008913] (2); Zinc finger, CCHC-type [IPR001842] (2); Zinc finger, CTCH-type [IPR017921] (2); Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Rubredoxin-like fold [IPR004039] (1)	scaffold_3_mRNA_4100.1	C_unshiu_01155_mRNA_3.1	-
GF0021419	1	1	0	Core-2'-branching beta-1,6-N-acetylgalactosaminyltransferase family protein (2)	Core-2'-branching beta-1,6-N-acetylgalactosaminyltransferase activity [GO:0008852]; biological_process [2]; hydrolase activity [GO:0016620]; membrane [GO:0016620]; cellular_component [2]	Glycosyl transferase, family 14 [IPR003406] (2)	scaffold_3_mRNA_4098.1	C_unshiu_01155_mRNA_6.1	-
GF0021418	1	1	0	Hypothetical protein (2)	metabolic_process [GO:0008152]; biological_process [2]; lyase activity [GO:0016629]; molecular_function [2]; cellular_component [2]	Isoprenoid synthase domain [IPR008849]; (2); Terpene synthase, metal-binding domain [IPR005530] (2); Terpene synthase, N-terminal domain [IPR001906] (2); Terpene cyclases/protein prenyltransferase-alpha-alpha toroid [IPR005930] (2)	scaffold_3_mRNA_4087.1	C_unshiu_01457_mRNA_3.1	-
GF0021416	1	1	0	Sesquiterpene synthase (2)	Sesquiterpene synthase [GO:0000287]; molecular_function [2]; magnesium ion binding [GO:0000287]; molecular_function [2]	scaffold_3_mRNA_4076.1	C_unshiu_01640_mRNA_2.1	-	
GF0021415	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_4073.1	C_unshiu_01640_mRNA_5.1	-
GF0021414	1	1	0	Uncharacterized mitochondrial protein AtMg00310 (2)	-	-	scaffold_3_mRNA_4070.1	C_unshiu_00563_mRNA_20.1	-
GF0021412	1	1	0	Leucine-rich repeat protein kinase family protein (1); Receptor like protein 33 (1)	protein binding [GO:0005515]; molecular_function [2]	Leucine-rich repeat domain [IPR012270] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); Leucine-rich repeat, typical subunit [IPR003591] (1)	scaffold_3_mRNA_4048.1	C_unshiu_01491_mRNA_2.1	-
GF0021411	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_4047.1	C_unshiu_01491_mRNA_3.1	-
GF0021410	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_4036.1	C_unshiu_02077_mRNA_4.1	-
GF0021409	1	1	0	Hypothetical protein (1); Class I glutamine amidotransferase-like superfamily protein isoform 2 (1)	ribosome [GO:0005840]; cellular_component [1]; intracellular [GO:0005622]; cellular_component [1]; translation [GO:0006412]; biological_process [1]; structural constituent of ribosome [GO:0003735]; molecular_function [1]	Class I glutamine amidotransferase-like [IPR029062] (2); DJ-1/Ptp [IPR002818]	scaffold_3_mRNA_4021.1	C_unshiu_02049_mRNA_5.1	-
GF0021406	1	1	0	RNA-directed DNA polymerase , related (2)	-	Reverse transcriptase domain [IPR000477] (2)	scaffold_3_mRNA_4.1	C_unshiu_01604_mRNA_4.1	-
GF0021405	1	1	0	Epidemiis-specific secreted glycoprotein EP1 (2)	Bulb-type lectin domain [IPR001480] (2)	scaffold_3_mRNA_3966.1	C_unshiu_02596_mRNA_2.1	-	
GF0021404	1	1	0	Alpha-N-acetylglucosaminidase family / NAGLU family isoform 1 (2)	-	Alpha-N-acetylglucosaminidase, N-terminal [IPB012420] (2); Alpha-N-acetylglucosaminidase, fim-barrel domain [IPR024733] (2); Alpha-N-acetylglucosaminidase, C-terminal [IPR024732] (2); Alpha-N-acetylglucosaminidase [IPR007781] (2)	scaffold_3_mRNA_396.1	C_unshiu_00092_mRNA_23.1	-
GF0021401	1	1	0	Glycosyl transferase family 1 protein (1); UDP-Glycosyltransferase superfamily protein isoform 3 (1)	-	Glycosyl transferase, family 1 [IPR001296] (2)	scaffold_3_mRNA_3942.1	C_unshiu_00769_mRNA_1.1	-
GF0021400	1	1	0	Hypothetical protein (2)	-	Glycosyl transferase, family 1 [IPR001296] (2)	scaffold_3_mRNA_3932.1	C_unshiu_01431_mRNA_1.1	-
GF0021399	1	1	0	Hypothetical protein (2)	-	Glycosyl transferase, family 1 [IPR001296] (2)	scaffold_3_mRNA_3921.1	C_unshiu_01537_mRNA_8.1	-
GF0021397	1	1	0	Hypothetical protein (1); Anaphase-promoting complex subunit 6 (1)	protein binding [GO:0005515]; molecular_function [2]; protease-type peptidase activity [GO:0008234]; molecular_function [1]; proteolysis [GO:0006508]; biological_process [1]	Tetratricopeptide-like helical domain [IPR011990] (2); Ulp1 protease family, C-terminal catalytic domain [IPR003653]	scaffold_3_mRNA_3912.1	C_unshiu_01537_mRNA_5.1	-
GF0021396	1	1	0	Ankyrin repeat protein; putative (2)	protein binding [GO:0005515]; molecular_function [2]	Ankyrin repeat-containing domain [IPR020683] (2); Ankyrin repeat [IPR001296] (2)	scaffold_3_mRNA_3911.1	C_unshiu_02956_mRNA_3.1	-
GF0021395	1	1	0	Hypothetical protein (2)	-	Powdery mildew resistance protein, RPW8 domain [IPR008808] (2)	scaffold_3_mRNA_3899.1	C_unshiu_00438_mRNA_15.1	-
GF0021394	1	1	0	Hypothetical protein (2)	-	Powdery mildew resistance protein, RPW8 domain [IPR008808] (2)	scaffold_3_mRNA_3898.1	C_unshiu_00438_mRNA_14.1	-
GF0021393	1	1	0	Hypothetical protein (2)	-	Powdery mildew resistance protein, RPW8 domain [IPR008808] (1)	scaffold_3_mRNA_3894.1	C_unshiu_00438_mRNA_8.1	-
GF0021392	1	1	0	Penatricopeptide repeat (PPR) repeat protein (1); Penatricopeptide repeat-containing protein, mitochondrial (1); Penatricopeptide repeat-containing protein, putative (1)	-	Penatricopeptide repeat [IPR002885] (2)	scaffold_3_mRNA_3892.1	C_unshiu_00438_mRNA_11.1	-
GF0021391	1	1	0	Penatricopeptide repeat (PPR) superfamily protein, putative isoform 2 (1)	-	Penatricopeptide repeat [IPR002885] (2)	scaffold_3_mRNA_3890.1	C_unshiu_00438_mRNA_6.1	-
GF0021389	1	1	0	Hypothetical protein (2)	-	SIGNH hydrolase-type esterase domain [IPB013830] (1)	scaffold_3_mRNA_3883.1	C_unshiu_00072_mRNA_34.1	-
GF0021388	1	1	0	Mutator-like transposase (2)	-	Transposase, MadB, plant [IPB004332] (2); MULE transposase domain [IPR018289] (2)	scaffold_3_mRNA_3865.1	C_unshiu_01504_mRNA_5.1	-
GF0021387	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677]; molecular_function [1]	Myb domain [IPR017930] (2); Homeodomain-like [IPB009057] (1)	scaffold_3_mRNA_3857.1	C_unshiu_01069_mRNA_4.1	-
GF0021386	1	1	0	Hypothetical protein (2)	protein dimerization activity	Ribonuclease H-like domain [IPR012337] (2); HAT, C-terminal dimerisation domain [IPR008896] (2)	scaffold_3_mRNA_3855.1	C_unshiu_01557_mRNA_2.1	-
GF0021384	1	1	0	HAT dimerisation (1); Hypothetical protein (1)	mRNA binding [GO:0006893]; molecular_function [2]; nucleic_acid_binding [IPR0003676]; molecular_function [1]	Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2)	scaffold_3_mRNA_3842.1	C_unshiu_00995_mRNA_15.1	-
GF0021383	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515]; molecular_function [2]	Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2)	scaffold_3_mRNA_3827.1	C_unshiu_00534_mRNA_12.1	-
GF0021380	1	1	0	Glycerol kinase (2)	carbohydrate metabolic process [GO:0005975]; biological_process [2]; phosphotransferase activity; alcohol group as acceptor [GO:0016773]; molecular_function [2]	Carbohydrate kinase, FGGY, C-terminal [IPR018485] (2); Carbohydrate kinase, FGGY, N-terminal [IPR018484] (2)	scaffold_3_mRNA_3822.1	C_unshiu_01142_mRNA_8.1	-
GF0021379	1	1	0	Miraculin (1); Kunitz trypsin inhibitor (1)	endopeptidase inhibitor activity [GO:004866 molecular_function] (2)	Protease inhibitor [IPR002160] (2); Kunitz inhibitor STI-like [IPR011165] (2)	scaffold_3_mRNA_3820.1	C_unshiu_01142_mRNA_10.1	-
GF0021377	1	1	0	Hypothetical protein (2)	-	Translation protein SH2-like domain [IPR008991] (1); Ribosomal protein L2 domain 2 [IPR014722] (1)	scaffold_3_mRNA_3803.1	C_unshiu_00688_mRNA_16.1	-
GF0021376	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_380.1	C_unshiu_00092_mRNA_6.1	-	
GF0021374	1	1	0	Gamma-glutamyl hydrolase 2 (2)	glutamine metabolic process [GO:0006541]; biological_process [2]; omega-peptidase activity [GO:0008242]; molecular_function [2]; hydrolyase activity [GO:0016787]; molecular_function [2]; catalytic activity [GO:0003824]; molecular_function [2]	Class I glutamine amidotransferase-like [IPR029062] (2); Peptidase C26 [IPR011697] (2); Peptidase C26, gamma-glutamyl hydrolase [IPR015527] (2)	scaffold_3_mRNA_3771.1	C_unshiu_00836_mRNA_8.1	-
GF0021373	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]; molecular_function [2]; nucleotide binding [GO:000166]; molecular_function [1]	RNA recognition motif domain [IPR000504] (2); Nucleotide-binding alpha-beta-plate domain [IPR012677] (1)	scaffold_3_mRNA_3766.1	C_unshiu_00730_mRNA_4.1	-
GF0021372	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]; molecular_function [2]	Ribonuclease H-like domain [IPR012337] (2)	scaffold_3_mRNA_3752.1	C_unshiu_00174_mRNA_19.1	-
GF0021371	1	1	0	Protein trichome birefringence-like 38 (2)	-	Trichome birefringence-like family [IPR029062]; PMR5 N-terminal domain [IPR019846] (2); PC-Esterase [IPR015517] (2); PC-Esterase [IPR024605] (2); Trichome birefringence-like family [IPR029062]	scaffold_3_mRNA_3746.1	C_unshiu_00705_mRNA_8.1	-
GF0021370	1	1	0	Protein trichome birefringence-like 38 (1); Trichome birefringence-like protein (1)	-	PMR5 N-terminal domain [IPR029062]	scaffold_3_mRNA_3744.1	C_unshiu_00705_mRNA_12.1	-
GF0021368	1	1	0	Hypothetical protein (1); Putative penatricopeptide repeat-containing protein, mitochondrial (1)	-	5-formyltetrahydروفول酸 cycle-ligase [IPR026698] (2); 5-formyltetrahydروفול酸 cycle-ligase-like domain [IPR024185] (1)	scaffold_3_mRNA_3720.1	C_unshiu_01331_mRNA_5.1	-
GF0021367	1	1	0	Hypothetical protein (2)	-	5-formyltetrahydروفول酸 cycle-ligase [IPR026698] (2); 5-formyltetrahydروفול酸 cycle-ligase-like domain [IPR024185] (1)	scaffold_3_mRNA_372.1	C_unshiu_01592_mRNA_5.1	-

ID	Num in C.elegans	Num in C.mosquitae	Num in P.juglandicola	Note	GO	InterPro	Members in C.elegans	Members in C.mosquitae	Members in P.juglandicola	
GF0021366	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_3716.1	C.unshiu_02398_mRNA_2.1	-	
GF0021365	1	1	0	Hypothetical protein (2)			C.unshiu_02398_mRNA_1.1	-	-	
GF0021364	1	1	0	Zinc finger (B-box type) family protein	intracellular [GO:0005622]; cellular_component [2]; zinc ion binding [GO:00008270 molecular_function] [2]	B-box-type zinc finger [IPR0010315]; Zinc_finger, RING/FVFE/PHD-type [IPR013083] (1)	scaffold_3_mRNA_3711.1	C.unshiu_01558_mRNA_6.1	-	
GF0021363	1	1	0	Hypothetical protein (2)	nucleic_acid_binding [GO:0003676]; molecular_function [2]	Ribonuclease_H-like domain [IPR012337] (2)	scaffold_3_mRNA_3704.1	C.unshiu_02189_mRNA_1.1	-	
GF0021362	1	1	0	Hypothetical protein (2)	nucleic_acid_binding [GO:0003676]; molecular_function [2]	Ribonuclease_H-like domain [IPR012337] (2)	scaffold_3_mRNA_3700.1	C.unshiu_00759_mRNA_11.1	-	
GF0021361	1	1	0	Structural maintenance of chromosomes domain protein (2)			scaffold_3_mRNA_3695.1	C.unshiu_00759_mRNA_5.1	-	
GF0021360	1	1	0	Hypothetical protein (2)	protein_dimerization_activity [GO:0048989 molecular_function] [2]; nucleic_acid_binding [GO:0003676]; molecular_function [2]	Ribonuclease_H-like domain [IPR012337] (2); HAT, C-terminal dimerisation domain [IPR008096] (2)	scaffold_3_mRNA_3677.1	C.unshiu_01154_mRNA_3.1	-	
GF0021359	1	1	0	Senescence-related gene 1 (2)	oxidoreductase activity [GO:0016491]; nucleic_acid_binding [GO:0005114 biological_process] (2)	Oxidoreductase_independent_doxigenase N-terminal_domain [IPR026692] (2); isopenicillin_N_synthase-like [IPR027443] (2)	scaffold_3_mRNA_3674.1	C.unshiu_00612_mRNA_10.1	-	
GF0021358	1	1	0	Retrotansposon protein, putative, Ty3-gypsy subclass (1); Hypothetical protein (1)	RNA-DNA hybrid ribonuclease activity [GO:0004522 molecular_function] [2]; nucleic_acid_binding [GO:0003676 molecular_function] [2]	Ribonuclease_H domain [IPR002156] (2); Ribonuclease_H-like domain [IPR012337] (2)	scaffold_3_mRNA_3672.1	C.unshiu_00612_mRNA_14.1	-	
GF0021357	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_3670.1	C.unshiu_02344_mRNA_1.1	-	
GF0021356	1	1	0	Calcium and calcium/calmodulin-dependent serine/threonine-protein kinase (2)			scaffold_3_mRNA_3666.1	C.unshiu_02152_mRNA_4.1	-	
GF0021354	1	1	0	Hypothetical protein (1); FARI DNA-binding domain protein (1)	regulation_of_transcription, DNA-templated [GO:0006355 biological_process] (2)	FAR1 DNA binding domain [IPR004330] (2); FHY3/FAR1 family [IPR031052] (2)	scaffold_3_mRNA_3653.1	C.unshiu_01660_mRNA_4.1	-	
GF0021353	1	1	0	Hypothetical protein (2)	oxidoreductase_activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] [2]; oxidation-reduction_process [GO:0005114 biological_process] (2); heme_binding [GO:0020037 molecular_function] [2]; iron_binding [GO:0005506 molecular_function] [2]	oxidoreductase_activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] [2]; oxidation-reduction_process [GO:0005114 biological_process] (2); heme_binding [GO:0020037 molecular_function] [2]; iron_binding [GO:0005506 molecular_function] [2]	scaffold_3_mRNA_3650.1	C.unshiu_00501_mRNA_16.1	-	
GF0021351	1	1	0	Secologanin synthase (2)			Cytochrome_P450 [IPR001128] (2); Cytochrome_P450, conserved site [IPR017972] (2); Cytochrome_P450_E-class, group I [IPR002401] (2)	scaffold_3_mRNA_3636.1	C.unshiu_00016_mRNA_2.1	-
GF0021350	1	1	0	Hypothetical protein (2)	iron_binding [GO:0005506 molecular_function] (2); heme_binding [GO:00020037 molecular_function] (2); oxidation-reduction_process [GO:0005114 biological_process] (2); heme_binding [GO:0020037 molecular_function] [2]; iron_binding [GO:0005506 molecular_function] (2)	Cytochrome_P450, conserved site [IPR017972] (2); Cytochrome_P450_E-class, group I [IPR002401] (2)	scaffold_3_mRNA_3631.1	C.unshiu_01049_mRNA_4.1	-	
GF0021349	1	1	0	Secologanin synthase (2)			Cytochrome_P450, conserved site [IPR017972] (2); Cytochrome_P450_E-class, group I [IPR002401] (2); Cytochrome_P450 [IPR001128] (2)	scaffold_3_mRNA_3629.1	C.unshiu_01049_mRNA_6.1	-
GF0021348	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_3626.1	C.unshiu_00784_mRNA_10.1	-	
GF0021347	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_3624.1	C.unshiu_01685_mRNA_1.1	-	
GF0021346	1	1	0	Hypothetical protein (2)	nucleic_acid_binding [GO:0003676 molecular_function] (2)	Ribonuclease_H-like domain [IPR012337] (2)	scaffold_3_mRNA_3617.1	C.unshiu_00393_mRNA_15.1	-	
GF0021345	1	1	0	Heat stress transcription factor B4b, putative (2)			scaffold_3_mRNA_3608.1	C.unshiu_00175_mRNA_17.1	-	
GF0021344	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_3605.1	C.unshiu_02554_mRNA_2.1	-	
GF0021342	1	1	0	Isosapsynopeptidase/L-asparaginase 2 (1)	hydrolase_activity [GO:0016787 molecular_function] (2)	Nucleophile_aminohydrolases, N-terminal [IPR020555]; Peptidase_T2, asparaginase [IPR002046] (2)	scaffold_3_mRNA_3591.1	C.unshiu_01705_mRNA_4.1	-	
GF0021340	1	1	0	Hypothetical protein (2)	manganese_binding [GO:0003145 molecular_function] (2); nutrient_reservoir_activity [GO:0045735 molecular_function] (2)	Retrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3560.1	C.unshiu_00972_mRNA_4.1	-	
GF0021339	1	1	0	Oxalate oxidase 2 (2)	manganese_binding [GO:0003145 molecular_function] (2); nutrient_reservoir_activity [GO:0045735 molecular_function] (2)	manganese_Ice_cupin_domain [IPR011051] (2); Cupin_C [IPR006045]; 2Cmfc-like jelly roll fold [IPR014710] (2); Germin [IPR001929] (2)	scaffold_3_mRNA_356.1	C.unshiu_00509_mRNA_20.1	-	
GF0021338	1	1	0	Heavy metal/transport detoxification superfamily protein (2)			scaffold_3_mRNA_3559.1	C.unshiu_00972_mRNA_3.1	-	
GF0021337	1	1	0	RNA polymerase II C-terminal domain phosphatase-like 4 (2)			scaffold_3_mRNA_355.1	C.unshiu_00509_mRNA_19.1	-	
GF0021336	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_3545.1	C.unshiu_00996_mRNA_7.1	-	
GF0021335	1	1	0	Hypothetical protein (2)	DNA_binding [GO:0005972 molecular_function] (1); DNA_polymerase_processivity_factor_activity [GO:0003357 molecular_function] (1); regulation_of_DNA_rePLICATION [GO:0006273 biological_process] (1)	Proliferating_cell_nuclear_antigen, PCNA, C-terminal [IPR022649]; (1); Proliferating_cell_nuclear_antigen, PCNA [IPR000730] (1)	scaffold_3_mRNA_3544.1	C.unshiu_00996_mRNA_8.1	-	
GF0021333	1	1	0	Hypothetical protein (2)			EF-hand_domain [IPR002048] (2); EF-Hand_1, calcium-binding_site [IPR011921]; Stere_Aph_alpha motif_domain [IPR001660] (1)	scaffold_3_mRNA_3539.1	C.unshiu_00549_mRNA_14.1	-
GF0021332	1	1	0	Putative calcium-binding protein CML1.15 (2)	calcium_binding [GO:0005509 molecular_function] (2); protein_binding [GO:0005515 molecular_function] (2)	Reverse_transcriptase_zinc-binding_domain [IPR026960] (2); Ribonuclease_H-like_domain [IPR012337] (2)	scaffold_3_mRNA_3539.1	C.unshiu_00549_mRNA_14.1	-	
GF0021331	1	1	0	Putative calcium-binding protein CML1.15 (2)	calcium_binding [GO:0005509 molecular_function] (2); protein_binding [GO:0005515 molecular_function] (2)	EF-hand_domain [IPR002048] (2); EF-Hand_1, calcium-binding_site [IPR011921]; Stere_Aph_alpha motif_domain [IPR001660] (1)	scaffold_3_mRNA_3539.1	C.unshiu_00931_mRNA_2.1	-	
GF0021330	1	1	0	Putative calcium-binding protein CML1.15 (2)	calcium_binding [GO:0005509 molecular_function] (2); protein_binding [GO:0005515 molecular_function] (2)	F1C1_beta-homolog_domain [IPR004274] (2); BBCT_domain [IPR001357] (2); HAD-like_domain [IPR023214] (2)	scaffold_3_mRNA_3539.1	C.unshiu_00931_mRNA_2.1	-	
GF0021329	1	1	0	Hypothetical protein (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3545.1	C.unshiu_00996_mRNA_7.1	-
GF0021328	1	1	0	Hypothetical protein (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3544.1	C.unshiu_00996_mRNA_8.1	-
GF0021327	1	1	0	Hypothetical protein (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3543.1	C.unshiu_00996_mRNA_8.1	-
GF0021326	1	1	0	Hypothetical protein (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3542.1	C.unshiu_00996_mRNA_8.1	-
GF0021325	1	1	0	Hypothetical protein (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3541.1	C.unshiu_00996_mRNA_8.1	-
GF0021323	1	1	0	Hypothetical protein (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3540.1	C.unshiu_00996_mRNA_8.1	-
GF0021322	1	1	0	TMV resistance protein N (1); Disease resistance protein (1)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3539.1	C.unshiu_00996_mRNA_8.1	-
GF0021321	1	1	0	TMV resistance protein N (1); Disease resistance protein (1)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3538.1	C.unshiu_00996_mRNA_8.1	-
GF0021320	1	1	0	Hypothetical protein (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3537.1	C.unshiu_00996_mRNA_8.1	-
GF0021319	1	1	0	Putative protein (1)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3536.1	C.unshiu_00996_mRNA_8.1	-
GF0021318	1	1	0	Disease resistance protein (TIR-NBS-LRR class) (1); TMV resistance protein N (1)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3535.1	C.unshiu_00996_mRNA_8.1	-
GF0021317	1	1	0	Hypothetical protein (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3534.1	C.unshiu_00996_mRNA_8.1	-
GF0021316	1	1	0	Beta-hexosaminidase subunit B2 (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3533.1	C.unshiu_00996_mRNA_8.1	-
GF0021315	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3532.1	C.unshiu_00996_mRNA_8.1	-
GF0021314	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3531.1	C.unshiu_00996_mRNA_8.1	-
GF0021313	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3530.1	C.unshiu_00996_mRNA_8.1	-
GF0021312	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3529.1	C.unshiu_00996_mRNA_8.1	-
GF0021311	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3528.1	C.unshiu_00996_mRNA_8.1	-
GF0021310	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3527.1	C.unshiu_00996_mRNA_8.1	-
GF0021309	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3526.1	C.unshiu_00996_mRNA_8.1	-
GF0021308	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3525.1	C.unshiu_00996_mRNA_8.1	-
GF0021307	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3524.1	C.unshiu_00996_mRNA_8.1	-
GF0021306	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3523.1	C.unshiu_00996_mRNA_8.1	-
GF0021305	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3522.1	C.unshiu_00996_mRNA_8.1	-
GF0021304	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3521.1	C.unshiu_00996_mRNA_8.1	-
GF0021303	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3520.1	C.unshiu_00996_mRNA_8.1	-
GF0021302	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3519.1	C.unshiu_00996_mRNA_8.1	-
GF0021301	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3518.1	C.unshiu_00996_mRNA_8.1	-
GF0021300	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3517.1	C.unshiu_00996_mRNA_8.1	-
GF0021299	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3516.1	C.unshiu_00996_mRNA_8.1	-
GF0021298	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3515.1	C.unshiu_00996_mRNA_8.1	-
GF0021297	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3514.1	C.unshiu_00996_mRNA_8.1	-
GF0021296	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3513.1	C.unshiu_00996_mRNA_8.1	-
GF0021295	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3512.1	C.unshiu_00996_mRNA_8.1	-
GF0021294	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3511.1	C.unshiu_00996_mRNA_8.1	-
GF0021293	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3510.1	C.unshiu_00996_mRNA_8.1	-
GF0021292	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3509.1	C.unshiu_00996_mRNA_8.1	-
GF0021291	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3508.1	C.unshiu_00996_mRNA_8.1	-
GF0021290	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3507.1	C.unshiu_00996_mRNA_8.1	-
GF0021289	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3506.1	C.unshiu_00996_mRNA_8.1	-
GF0021288	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3505.1	C.unshiu_01387_mRNA_2.1	-
GF0021287	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3491.1	C.unshiu_01092_mRNA_5.1	-
GF0021286	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3483.1	C.unshiu_00381_mRNA_11.1	-
GF0021285	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3482.1	C.unshiu_01409_mRNA_8.1	-
GF0021284	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3481.1	C.unshiu_00267_mRNA_12.1	-
GF0021283	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3480.1	C.unshiu_01387_mRNA_2.1	-
GF0021282	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3479.1	C.unshiu_01092_mRNA_5.1	-
GF0021281	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3478.1	C.unshiu_00381_mRNA_11.1	-
GF0021280	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3477.1	C.unshiu_01409_mRNA_8.1	-
GF0021279	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3476.1	C.unshiu_00267_mRNA_12.1	-
GF0021278	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3475.1	C.unshiu_01387_mRNA_2.1	-
GF0021277	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3474.1	C.unshiu_01092_mRNA_5.1	-
GF0021276	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3473.1	C.unshiu_00381_mRNA_11.1	-
GF0021275	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3472.1	C.unshiu_01409_mRNA_8.1	-
GF0021274	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3471.1	C.unshiu_00267_mRNA_12.1	-
GF0021273	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3470.1	C.unshiu_01387_mRNA_2.1	-
GF0021272	1	1	0	Putative fertility restorer homologue (2)			Tretrotransposon_gag_domain [IPR005162] (2)	scaffold_3_mRNA_3469.1	C.unshiu_01092_mRNA_5.1	-
GF0021271	1	1	0	Putative fertility restorer homologue (2)</td						

ID	Num. in <i>C. clementiae</i>	Num. in <i>C. umshiu</i>	Num. in <i>P. trifoliae</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliae</i>
GF0021314	1	1	0	Hypothetical protein (2)	transporter activity [GO:0005215]; Proton-dependent oligopeptide transporter molecular function [2]; transport (1); Nitrate transporter 1.7 [GO:0006810 biological process] (2); membrane [GO:0016620 cellular_component] (2)	Major facilitator superfamily domain [IPR020846]; Proton-dependent oligopeptide transporter family [IPR001169] (2)	scaffold_3_mRNA_3386.1	C_umshiu_00476_mRNA_7.1	-
GF0021313	1	1	0	Hypothetical protein (2)	Protein-dependent oligopeptide transporter family (1); Nitrate transporter 1.7 [GO:0006810 biological process] (2); membrane [GO:0016620 cellular_component] (2)	BRC1 domain [IPR001357] (2); Cobalamin (vitamin B12) biosynthesis CobW-like, C-terminal [IPR011629] (1)	scaffold_3_mRNA_338.1	C_umshiu_00509_mRNA_1.1	-
GF0021312	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3361.1	C_umshiu_00482_mRNA_4.1	-
GF0021311	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_335.1	C_umshiu_00123_mRNA_14.1	-
GF0021310	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3342.1	C_umshiu_01398_mRNA_6.1	-
GF0021309	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3341.1	C_umshiu_00631_mRNA_13.1	-
GF0021308	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3333.1	C_umshiu_01054_mRNA_3.1	-
GF0021307	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3332.1	C_umshiu_01157_mRNA_3.1	-
GF0021306	1	1	0	Hypothetical protein (2); Retroposon protein, putative, unclassified (1)	Aspartic peptidase domain [IPR021109] (1)	scaffold_3_mRNA_3328.1	C_umshiu_01157_mRNA_1.1	-	-
GF0021305	1	1	0	Potato DNA for copia-like transposable element (1); Hypothetical protein (1)	Potato DNA for copia-like transposable element (1); Hypothetical protein (1)	peptidase S9 [IPR029508]; Reverse transcriptase domain [IPR000477] (2)	scaffold_3_mRNA_3320.1	C_umshiu_00423_mRNA_7.1	-
GF0021304	1	1	0	Hypothetical protein (2)	RNA-directed DNA polymerase (Reverse transcriptase) (2)	NAD(P)-binding domain [IPR01640] (1)	scaffold_3_mRNA_3313.1	C_umshiu_02231_mRNA_2.1	-
GF0021303	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508 biological process] (2); serine-type peptidase domain [IPR0008236 molecular function] (2); protein binding [GO:00051515 molecular function] (1)	Alpha/Beta hydrolase fold [IPR029508]; Peptidase S9; Prolyl oligopeptidase, catalytic domain [IPR001375] (2); WD40/YVTN repeat-like-containing domain [IPR015943] (1)	scaffold_3_mRNA_3312.1	C_umshiu_02070_mRNA_1.1	-
GF0021302	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3310.1	C_umshiu_02070_mRNA_3.1	-
GF0021301	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3309.1	C_umshiu_02070_mRNA_5.1	-
GF0021300	1	1	0	Putative glutamyl endopeptidase, chloroplastic (2)	peptidase S9 [IPR029508]; Peptidase S9; Prolyl oligopeptidase, catalytic domain [IPR001375] (2); WD40/YVTN repeat-like-containing domain [IPR015943] (1)	scaffold_3_mRNA_3292.1	C_umshiu_00308_mRNA_32.2	-	-
GF0021299	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3291.1	C_umshiu_00194_mRNA_29.1	-
GF0021297	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3282.1	C_umshiu_00236_mRNA_8.1	-
GF0021295	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3268.1	C_umshiu_00645_mRNA_4.1	-
GF0021293	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3257.1	C_umshiu_00167_mRNA_23.1	-
GF0021292	1	1	0	Embryonic abundant protein-like (2)	methyltransferase activity [GO:0008168 molecular function] (2); metabolic process [GO:0008152 biological process] (2)	Methyltransferase type 11 [IPR013216]; (2); Adenosyl-L-methionine-dependent methyltransferase [IPR029063] (2)	scaffold_3_mRNA_3249.1	C_umshiu_00167_mRNA_16.1	-
GF0021291	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3248.1	C_umshiu_00167_mRNA_15.1	-
GF0021290	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3245.1	C_umshiu_00167_mRNA_11.1	-
GF0021289	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3244.1	C_umshiu_00167_mRNA_10.1	-
GF0021288	1	1	0	Embryonic abundant protein EMB (2)	-	-	scaffold_3_mRNA_3233.1	C_umshiu_00167_mRNA_9.1	-
GF0021287	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3238.1	C_umshiu_00167_mRNA_3.1	-
GF0021286	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3236.1	C_umshiu_01436_mRNA_2.1	-
GF0021285	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3229.1	C_umshiu_02216_mRNA_2.1	-
GF0021284	1	1	0	Cytokine riboside 5'-monophosphate phosphotribohydrole (2)	-	-	scaffold_3_mRNA_3223.1	C_umshiu_00246_mRNA_35.1	-
GF0021283	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3219.1	C_umshiu_00056_mRNA_78.1	-
GF0021282	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3214.1	C_umshiu_00104_mRNA_38.1	-
GF0021281	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3208.1	C_umshiu_01399_mRNA_6.1	-
GF0021278	1	1	0	Hypothetical protein (2)	polygalacturonase activity [GO:0004650 molecular function] (1); carbohydrate metabolic process [GO:0009575 biological process] (1)	Pectin lyase fold/virulence factor [IPR011050]; Pectin lyase fold [IPR021334]; Glycoside hydrolase family 28 [IPR00743]; Pectate lyase superfamily protein [IPR024553] (1)	scaffold_3_mRNA_3196.1	C_umshiu_02157_mRNA_3.1	-
GF0021277	1	1	0	Galacturon 1,4-alpha-galacturonidase (2)	polygalacturonase activity [GO:0004650 molecular function] (2); carbohydrate metabolic process [GO:0009575 biological process] (2)	Pectin lyase fold/virulence factor [IPR011050]; Pectin lyase fold [IPR021334]; Glycoside hydrolase family 28 [IPR00743]; Pectate lyase superfamily protein [IPR024553] (1)	scaffold_3_mRNA_3191.1	C_umshiu_01406_mRNA_4.1	-
GF0021275	1	1	0	Polygalacturonase (2)	carbohydrate metabolic process [GO:0009575 biological process] (2); polygalacturonase activity [GO:0004650 molecular function] (2)	Pectin lyase fold/virulence factor [IPR011050]; Glycoside hydrolase family 28 [IPR00743]; Pectate lyase superfamily protein [IPR024553] (1)	scaffold_3_mRNA_3165.1	C_umshiu_00324_mRNA_4.1	-
GF0021273	1	1	0	Polygalacturonase (2)	polygalacturonase activity [GO:0004650 molecular function] (2); carbohydrate metabolic process [GO:0009575 biological process] (2)	Pectin lyase fold/virulence factor [IPR011050]; Glycoside hydrolase family 28 [IPR00743]; Pectate lyase superfamily protein [IPR024553] (1)	scaffold_3_mRNA_3161.1	C_umshiu_02580_mRNA_2.1	-
GF0021269	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3129.1	C_umshiu_01084_mRNA_7.1	-
GF0021265	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3115.1	C_umshiu_00950_mRNA_11.1	-
GF0021264	1	1	0	Thioredoxin superfamily protein, putative isoform 1 (1)	-	-	scaffold_3_mRNA_3114.1	C_umshiu_00950_mRNA_12.1	-
GF0021263	1	1	0	F-box/FBD/LRR-repeat protein At5g22660 (2)	protein binding [GO:0005515 molecular function] (2)	Leucine-rich repeat domain, L-domain-like like [IPR032675]; F-box domain [IPR01810]; FBD domain [IPR006566] (2)	scaffold_3_mRNA_3113.1	C_umshiu_00950_mRNA_13.1	-
GF0021262	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3112.1	C_umshiu_00950_mRNA_14.1	-
GF0021261	1	1	0	F-box/FBD/LRR-repeat protein At5g22660 (2)	protein binding [GO:0005515 molecular function] (2); poly(ADP-ribose) glycohydrolase activity [GO:0004649 molecular function] (2); carbohydrate metabolic process [GO:0009575 biological process] (2)	F-box domain [IPR01810]; Leucine-rich repeat domain, L-domain-like like [IPR032675]; Poly(ADP-ribose) glycohydrolase [IPR007724]; FBD domain [IPR006566] (2)	scaffold_3_mRNA_3111.1	C_umshiu_00950_mRNA_15.1	-
GF0021260	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3100.1	C_umshiu_00278_mRNA_5.1	-
GF0021258	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3093.1	C_umshiu_00609_mRNA_8.1	-
GF0021257	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3087.1	C_umshiu_01332_mRNA_1.1	-
GF0021256	1	1	0	Hypothetical protein (1); Zinc knuckle family protein (1)	nucleic acid binding [GO:0003676 molecular function] (1); zinc ion binding [GO:0008270 molecular function] (1)	Leucine-rich repeat domain, L-domain-like like [IPR032675] (1)	-	-	-
GF0021254	1	1	0	Hypothetical protein (2)	-	-	-	-	-
GF0021253	1	1	0	Hypothetical protein (2)	-	-	-	-	-
GF0021252	1	1	0	Hypothetical protein (2)	RNA binding [GO:0003723 molecular function] (1); RNA splicing via spliceosome [GO:0003098 biological process] (1); U2AF [GO:0089701 cellular component] (1)	U2 auxiliary factor small subunit [IPR009145] (1)	scaffold_3_mRNA_3064.1	C_umshiu_00117_mRNA_5.1	-
GF0021251	1	1	0	Putative disease resistance protein (2)	-	-	scaffold_3_mRNA_3049.1	C_umshiu_00212_mRNA_14.1	-
GF0021250	1	1	0	Disease resistance N-like protein (1); LRR and NB-ARC domain-containing disease resistance protein, putative (1)	ADP binding [GO:0043531 molecular function] (2)	NB-ARC [IPR002182] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417]; Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_3_mRNA_3048.1	C_umshiu_00212_mRNA_13.1	-
GF0021249	1	1	0	Hypothetical protein (2)	integral component of membrane [GO:0016021 cellular component] (2); defense response [GO:0006952 biological process] (2)	Mlo-related protein [IPR004326] (2)	scaffold_3_mRNA_3047.1	C_umshiu_00212_mRNA_12.1	-
GF0021248	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3046.1	C_umshiu_00212_mRNA_11.1	-
GF0021247	1	1	0	Nucleic acid-binding isoform 1 (2)	tRNA binding [GO:0000049 molecular function] (2)	tRNA-binding domain [IPR002547] (2); Nucleic acid-binding, OB-fold [IPR012340] (2)	scaffold_3_mRNA_3037.1	C_umshiu_00286_mRNA_24.1	-
GF0021246	1	1	0	Ankyrin repeat family protein (1); Hypothetical protein (1)	protein binding [GO:0005515 molecular function] (2)	Ankyrin repeat-containing domain [IPR020683] (2); Ankyrin repeat [IPR002110] (2)	scaffold_3_mRNA_3026.1	C_umshiu_00113_mRNA_41.1	-
GF0021244	1	1	0	Hypothetical protein (2)	catalytic activity [GO:0003824 molecular function] (2); metabolic process [GO:0008152 biological process] (2); regulation of transcription, promoter DNA polymerase II promoter [GO:0006374 biological process] (2)	Enhancer of polycomb-like [IPR019542] (2); Alkaline-phosphatase-like alpha/beta/alpha [IPR017849] (2); Alkaline-phosphatase-like, core domain [IPR017850] (2); Type I phosphodiesterase/nucleotide pyrophosphatase/phosphotransferase [IPR002591] (1); Enhancer of polycomb protein [IPR024943] (1)	scaffold_3_mRNA_3017.1	C_umshiu_01657_mRNA_6.1	-
GF0021243	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_3014.1	C_umshiu_00383_mRNA_18.1	-
GF0021241	1	1	0	Hypothetical protein (2)	Domain of unknown function DUF4283 [IPR025558] (2)	scaffold_3_mRNA_2988.1	C_umshiu_01094_mRNA_1.1	-	
GF0021240	1	1	0	Peptide chain release factor-like protein (2)	-	-	scaffold_3_mRNA_2985.1	C_umshiu_01437_mRNA_7.1	-
GF0021239	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2983.1	C_umshiu_02389_mRNA_3.1	-
GF0021237	1	1	0	Hypothetical protein (2)	translation release factor activity [GO:0003747 molecular function] (2); translational termination [GO:0006415 biological process] (2)	Peptide chain release factor class I/class II [IPR000352] (2); Double-stranded RNA-binding domain [IPR014720] (1)	scaffold_3_mRNA_2970.1	C_umshiu_00575_mRNA_2.1	-
GF0021235	1	1	0	Hypothetical protein (2)	signal transduction [GO:0007165 biological process] (2); protein binding [GO:0005515 molecular function] (2)	Toll-interleukin-1 receptor homologs (TIR) domain [IPR000157]; Leucine-rich repeat 3 [IPR011713]; Leucine-rich repeat domain, L-domain-like [IPR032675] (2)	scaffold_3_mRNA_2969.1	C_umshiu_00575_mRNA_1.1	-
GF0021234	1	1	0	Putative Peptide chain release factor (1); Putative class I peptide chain release factor-like (1)	translational release factor activity [GO:0003747 molecular function] (2); translational termination [GO:0006415 biological process] (2)	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Alpha/Beta hydrolase fold [IPR029508] (2); Double-stranded RNA-binding domain [IPR014720] (1)	scaffold_3_mRNA_2967.1	C_umshiu_02982_mRNA_2.1	-

ID	Num in <i>C. clementiae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0021233	1	1	0	Hypothetical protein (2)	phosphoglucomate dehydrogenase (decarboxylating) activity [GO:0004616] molecular function [2]; oxidation-reduction process [GO:0055114 biological process] (2)	NAD(P) binding domain [IPR016040] (2); 6-phosphoglucomate dehydrogenase [IPR006183] (2); 6-phosphoglucomate dehydrogenase, NADP-binding [IPR006115] (2)	scaffold_3_mRNA_2939.1	C_unshiu_01437_mRNA_5.1	-
GF0021232	1	1	0	Hypothetical protein (1); Peptide chain release factor 2 (1)	translational release factor activity [GO:0006415 biological process] (2); translation release factor activity [GO:0003747 molecular function] (2)	Peptide chain release factor class I/class II [IPR000352] (2); Double-stranded RNA-binding domain [IPR014720] (1)	scaffold_3_mRNA_2933.1	C_unshiu_00231_mRNA_25.1	-
GF0021231	1	1	0	Hypothetical protein (2)	-	AT hook, DNA-binding motif [IPR017956] (2); PPC domain [IPR005175] (2)	scaffold_3_mRNA_2932.1	C_unshiu_00199_mRNA_20.1	-
GF0021230	1	1	0	AT-hook motif nuclear localized protein 1 (2)	protein binding [GO:0005515 molecular function] (2); signal transduction [GO:0001765 biological process] (2)	AT hook, DNA-binding motif [IPR005175] (2)	scaffold_3_mRNA_293.1	C_unshiu_01105_mRNA_2.1	-
GF0021229	1	1	0	Hypothetical protein (2)	-	Toll-interleukin-1 receptor homology (TIR) domain [IPR000157] (2)	scaffold_3_mRNA_2927.1	C_unshiu_01001_mRNA_7.1	-
GF0021228	1	1	0	Monosaccharide transport protein (2)	-	-	scaffold_3_mRNA_2921.1	C_unshiu_01031_mRNA_1.1	-
GF0021226	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (1)	Ribonuclease H-like domain [IPR012337] (1)	scaffold_3_mRNA_2918.1	C_unshiu_01031_mRNA_13.1	-
GF0021225	1	1	0	Hypothetical protein (2)	-	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2)	scaffold_3_mRNA_2914.1	C_unshiu_01031_mRNA_9.1	-
GF0021224	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2913.1	C_unshiu_01031_mRNA_8.1	-
GF0021223	1	1	0	Hypothetical protein (2)	-	Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2)	scaffold_3_mRNA_2903.1	C_unshiu_01094_mRNA_14.1	-
GF0021222	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular function] (2)	Trehalose-phosphatase [IPR0003337] (2); HAD-domain [IPR023214] (2)	scaffold_3_mRNA_29.1	C_unshiu_00399_mRNA_9.1	-
GF0021219	1	1	0	Hypothetical protein (2)	trehalose biosynthetic process [GO:0005992 biological process] (2); catalytic activity [GO:0003824 molecular function] (2)	Trehalose-phosphatase [IPR0003337] (2); HAD-domain [IPR023214] (2)	scaffold_3_mRNA_2897.1	C_unshiu_01094_mRNA_8.1	-
GF0021218	1	1	0	Putative TIR-NBS class resistance protein (1); Hypothetical protein (1)	signal transduction [GO:0007165 biological process] (1); protein binding [GO:0005515 molecular function] (1)	Toll-interleukin-1 receptor homology (TIR) domain [IPR000157] (1)	scaffold_3_mRNA_2897.1	C_unshiu_01094_mRNA_8.1	-
GF0021215	1	1	0	Conserved hypothetical plastid protein Ycf45 (2)	ATP binding [GO:0005524 molecular function] (2)	AAA+ATPase domain [IPR002359] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); ATPase, AAA-type, core [IPR003959] (2)	scaffold_3_mRNA_2874.1	C_unshiu_00582_mRNA_26.1	-
GF0021214	1	1	0	Actin-depolymerizing factor 2 (2)	actin binding [GO:0003779 molecular function] (2); actin filament depolymerization [GO:0003042 biological process] (2); intracellular actin cytoskeleton [GO:0005622 cellular_component] (2); actin cytoskeleton [GO:0015629 cellular_component] (2); depolymerization [GO:0006511 biological process] (1); multicellular organismal development [GO:0007275 biological process] (1); nucleus [GO:000534 cellular_component] (1)	ADF/H/Geobacillus-like domain [IPR29006] (2); Actin-depolymerising factor homology [IPR020218] (2); ADF/Cofilin/Destrin [IPR017904] (1); ADF/Cofilin [IPR017904] (1)	scaffold_3_mRNA_287.1	C_unshiu_01144_mRNA_9.1	-
GF0021213	1	1	0	Hypothetical protein (2)	-	E3 ubiquitin-protein ligase SIN-like [IPR004162] (1)	scaffold_3_mRNA_2856.1	C_unshiu_00518_mRNA_15.1	-
GF0021212	1	1	0	TMV resistance protein N (2)	signal transduction [GO:0007165 biological process] (2); ADP binding [GO:0043331 molecular function] (2); protein binding [GO:0005515 molecular function] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); AAA+ATPase domain [IPR003234] (2); NB-ARC [IPR002182] (2); Toll-interleukin-1 receptor homology (TIR) domain [IPR000157] (2); Leucine-rich repeat 3 [IPR011713] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (2)	scaffold_3_mRNA_2855.1	C_unshiu_00518_mRNA_14.1	-
GF0021211	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular function] (2); phosphoric ester hydrolase activity [GO:00042578 molecular function] (2)	SAC domain [IPR002013] (2); WW domain [IPR001202] (2)	scaffold_3_mRNA_2854.1	C_unshiu_00518_mRNA_13.1	-
GF0021210	1	1	0	Hypothetical protein (2)	-	Histone-binding protein RBBP4, N-terminal [IPB022052] (2)	scaffold_3_mRNA_2853.1	C_unshiu_00518_mRNA_12.1	-
GF0021207	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_2834.1	C_unshiu_01977_mRNA_3.1	-	
GF0021206	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_2832.1	C_unshiu_00596_mRNA_9.1	-	
GF0021205	1	1	0	F-box protein SKP23 (2)	Domain unknown description DUF295 [IPR005174] (2)	scaffold_3_mRNA_2831.1	C_unshiu_00596_mRNA_10.1	-	
GF0021203	1	1	0	Hypothetical protein (2)	Transposase, MuDR, plant [IPR004332] (2); MULE transposase domain [IPR004332] (2); Transposase, MuDR, plant [IPR004332] (2); Zinc finger, PMZ-type [IPR006564] (2); Zinc finger, PMZ-type [IPR006564] (2); Zinc finger, SWIM-type [IPR07527] (1)	scaffold_3_mRNA_2823.1	C_unshiu_02456_mRNA_4.1	-	
GF0021201	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_2806.1	C_unshiu_00097_mRNA_1.1	-	
GF0021199	1	1	0	Hypothetical protein (2)	Histone-binding protein RBBP4, N-terminal [IPB022052] (2)	scaffold_3_mRNA_2802.1	C_unshiu_01224_mRNA_5.1	-	
GF0021198	1	1	0	Hypothetical protein (2)	GAG-pre-integrase domain [IPR025724] (1)	scaffold_3_mRNA_2801.1	C_unshiu_00181_mRNA_31.1	-	
GF0021196	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_2789.1	C_unshiu_00739_mRNA_13.1	-	
GF0021195	1	1	0	Hypothetical protein (2)	signal transduction [GO:0007165 biological process] (2); protein binding [GO:0005515 molecular function] (2)	Toll-interleukin-1 receptor homology (TIR) domain [IPR000157] (2)	scaffold_3_mRNA_2771.1	C_unshiu_00313_mRNA_6.1	-
GF0021194	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_2768.1	C_unshiu_00313_mRNA_3.1	-	
GF0021193	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_2766.1	C_unshiu_00441_mRNA_1.1	-	
GF0021191	1	1	0	Hypothetical protein (2)	Domain of unknown function DUF985 [IPR015410] (2); Ulp1 protease family, C-terminal catalytic domain [IPR003653] (2)	scaffold_3_mRNA_2758.1	C_unshiu_02474_mRNA_2.1	-	
GF0021190	1	1	0	Hypothetical protein (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_3_mRNA_2755.1	C_unshiu_02707_mRNA_3.1	-	
GF0021189	1	1	0	Gag protease polyprotein, putative (2)	Retrotransposon gag domain [IPR005162] (2)	scaffold_3_mRNA_2751.1	C_unshiu_00723_mRNA_10.1	-	
GF0021188	1	1	0	Tubulin beta-9 chain (1); Tubulin beta-7 chain (1)	microtubule-associated process [GO:0007017 biological process] (2); cysteine-type peptidase activity [GO:0002324 molecular function] (2)	Beta tubulin [IPR002453] (2); Tubulin, centriolar [IPR017953] (2); Tubulin, N2 [IPR017952] (2); Beta tubulin [IPR030686] (2); Beta tubulin autoregulation binding site [IPR013838] (2); Tubulin [IPB000217] (2); Tubulin, C-terminal [IPR023123] (1)	scaffold_3_mRNA_275.1	C_unshiu_01325_mRNA_6.1	-
GF0021187	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_2747.1	C_unshiu_01266_mRNA_5.1	-	
GF0021186	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_2746.1	C_unshiu_00948_mRNA_2.1	-	
GF0021185	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_2745.1	C_unshiu_01266_mRNA_6.1	-	
GF0021184	1	1	0	Suppressor of npr1-1, constitutive 1-like protein (1); Disease resistance protein (TIR-NBS-LRR class) (1)	signal transduction [GO:0007165 biological process] (2); protein binding [GO:0005515 molecular function] (2); ADP binding [IPR004353] (2); molecular function [IPR0004353] (1)	Toll-interleukin-1 receptor homology (TIR) domain [IPR000157] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1); NB-ARC [IPR002182] (1)	scaffold_3_mRNA_2740.1	C_unshiu_02202_mRNA_3.1	-
GF0021183	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_2738.1	C_unshiu_02202_mRNA_2.1	-	
GF0021180	1	1	0	Protein SUPPRESSOR OF npr1-1, CONSTITUTIVE 1 (2)	protein binding [GO:0005515 molecular function] (2); ADP binding [GO:004351] (2); molecular function [IPR0004351] (1)	Leucine-rich repeat 3 [IPR011713] (2); Leucine-rich repeat, typical subtype [IPR003591] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Toll-interleukin-1 receptor homology (TIR) domain [IPR000157] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1); Leucine-rich repeat, typical subtype [IPR003591] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Toll-interleukin-1 receptor homology (TIR) domain [IPR000157] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1); Leucine-rich repeat, typical subtype [IPR003591] (2); Leucine-rich repeat domain, L-domain-like [IPR011713] (1)	scaffold_3_mRNA_2727.1	C_unshiu_00931_mRNA_6.1	-
GF0021179	1	1	0	Disease resistance protein (TIR-NBS-LRR class) (2)	signal transduction [GO:0007165 biological process] (2); ADP binding [GO:004351] (2); protein binding [GO:0005515 molecular function] (2)	Endonuclease/exonuclease phosphatase [IPR005135] (2); XGL-TT-Retrolipase exonuclease function XGL-TT-Retrolipase [IPR008164] (1); Winged helix-turn-helix DNA-binding domain [IPR011991] (1); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat, typical subtype [IPR003591] (1); Leucine-rich repeat [IPR011713] (1)	scaffold_3_mRNA_2723.1	C_unshiu_02362_mRNA_3.1	-
GF0021178	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_2719.1	C_unshiu_01276_mRNA_2.1	-	
GF0021177	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_2714.1	C_unshiu_01276_mRNA_8.1	-	
GF0021176	1	1	0	Hypothetical protein (2)	-	scaffold_3_mRNA_2703.1	C_unshiu_01030_mRNA_3.1	-	
GF0021175	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (1)	Retrotansposon gag domain [IPR005162] (2); Aspartic peptidase domain [IPR021109] (2); Ribonuclease H-like domain [IPR012337] (1)	scaffold_3_mRNA_2702.1	C_unshiu_01030_mRNA_4.1	-

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0021174	1	1	0	Disease resistance protein (TIR-NBS-LRR class) (2)	ADP binding [GO:0043531]; molecular_function [2]; signal transduction [GO:0007165]; biological_process [1]; protein binding [GO:0005515; molecular_function] (1)	NB-ARC [IPR002182] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Leucine-rich repeat, typical subtype [IPR005591] (2); Leucine-rich repeat domain, L-domain-like [IPR01675] (2); Winged helix-turn-helix domain [IPR011991] (1); Toll-interleukin-1 receptor homology (TIR) domain [IPR000157] (1)	scaffold_3_mRNA_2697.1	C_unshiu_01466_mRNA_5.1	-
GF0021173	1	1	0	Hypothetical protein (2)	-	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2)	scaffold_3_mRNA_2695.1	C_unshiu_02537_mRNA_2.1	-
GF0021172	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2693.1	C_unshiu_01034_mRNA_16.1	-
GF0021171	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2690.1	C_unshiu_01233_mRNA_3.1	-
GF0021170	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2691.0	C_unshiu_03068_mRNA_2.1	-
GF0021169	1	1	0	Hypothetical protein (2)	-	Arabidopsis retrotransposon Orf1 [IPR004312] (2)	scaffold_3_mRNA_2686.1	C_unshiu_00637_mRNA_10.1	-
GF0021168	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2683.1	C_unshiu_00272_mRNA_16.1	-
GF0021166	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2672.1	C_unshiu_01663_mRNA_1.1	-
GF0021165	1	1	0	Caffeic acid O-methyltransferase (2)	O-methyltransferase activity [GO:0008171; molecular_function] (2); methyltransferase activity [GO:0008168; molecular_function] (1)	S-adenosyl-L-methionine-dependent methyltransferase [IPR029663] (2); O-methyltransferase, family 2 [IPR001077] (2); O-methyltransferase COMT-type [IPR016661] (1)	scaffold_3_mRNA_2668.1	C_unshiu_01111_mRNA_1.1	-
GF0021164	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2666.1	C_unshiu_01979_mRNA_1.1	-
GF0021163	1	1	0	Cysteine-rich RLK (RECEPTOR-like protein kinase) 8 (2)	-	-	scaffold_3_mRNA_2665.1	C_unshiu_01979_mRNA_2.1	-
GF0021162	1	1	0	Hypothetical protein (1); LRR receptor-like kinase family protein (1)	ATP binding [GO:0005524]; molecular_function [2]; protein kinase activity [GO:0008175]; molecular_function [1]; protein phosphorylation [GO:0006468; biological_process] (1)	Protein kinase, ATP binding site [IPR017441] (2); Protein kinase-like domain [IPR010099] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Serine/threonine-protein kinase, catalytic domain [IPR001245] (1); Concanavalin A-like lectin/glycan-binding domain [IPR013320] (1); Protein kinase domain [IPR000719] (1)	scaffold_3_mRNA_2663.1	C_unshiu_01979_mRNA_5.1	-
GF0021161	1	1	0	Egg cell-secreted protein 1.4 (2)	-	Proline-rich domain [IPR008502] (2)	scaffold_3_mRNA_2654.1	C_unshiu_00628_mRNA_11.1	-
GF0021160	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2649.1	C_unshiu_00828_mRNA_7.1	-
GF0021159	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2641.1	C_unshiu_00708_mRNA_7.1	-
GF0021158	1	1	0	Hypothetical protein (2)	dihydroxyacetone O-acyltransferase activity [GO:0004144; molecular_function] (2)	O-acyltransferase WSD1, C-terminal [IPR009721] (2)	scaffold_3_mRNA_2636.1	C_unshiu_00031_mRNA_7.1	-
GF0021157	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676; molecular_function] (1)	Reverse transcriptase zinc-binding domain [IPR026960] (2); Ribonuclease H-like domain [IPR021337] (1)	scaffold_3_mRNA_2626.1	C_unshiu_00717_mRNA_6.1	-
GF0021156	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2625.1	C_unshiu_00717_mRNA_7.1	-
GF0021155	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515; molecular_function] (2); signal transduction [GO:0007165; biological_process] (1)	Leucine-rich repeat [IPR000611] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Domain of unknown function DU4371 [IPR025398] (1); Toll-interleukin-1 receptor homolog (TIR) domain [IPR000157] (1); Leucine-rich repeat, typical subtype [IPR005591] (1)	scaffold_3_mRNA_2621.1	C_unshiu_00717_mRNA_10.1	-
GF0021154	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2617.1	C_unshiu_00717_mRNA_12.1	-
GF0021153	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2616.1	C_unshiu_00717_mRNA_13.1	-
GF0021152	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2609.1	C_unshiu_01012_mRNA_6.1	-
GF0021150	1	1	0	TMV resistance N (2)	-	Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_3_mRNA_2602.1	C_unshiu_01012_mRNA_4.1	-
GF0021149	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2590.1	C_unshiu_02326_mRNA_4.1	-
GF0021148	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2583.1	C_unshiu_00015_mRNA_107.1	-
GF0021146	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2578.1	C_unshiu_00015_mRNA_114.1	-
GF0021145	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2577.1	C_unshiu_00015_mRNA_115.1	-
GF0021144	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2576.1	C_unshiu_00015_mRNA_116.1	-
GF0021143	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515; molecular_function] (2)	PDZ domain [IPR001478] (2); Reverse transcriptase, RNA-dependent DNA polymerase [IPR000313] (1)	scaffold_3_mRNA_2575.1	C_unshiu_00602_mRNA_3.1	-
GF0021142	1	1	0	Hypothetical protein (1); O-Phosphorybosaminomimidazole carboxylase, chloroplastic (1)	'de novo' IMP biosynthetic process [GO:0006189; biological_process] (2)	Phosphotransferase Purf domain [IPR000031] (1); Purf domain [IPR000311] (1)	scaffold_3_mRNA_2574.1	C_unshiu_00602_mRNA_4.1	-
GF0021141	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2562.1	C_unshiu_00595_mRNA_3.1	-
GF0021140	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2561.1	C_unshiu_00595_mRNA_2.1	-
GF0021139	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2542.1	C_unshiu_00692_mRNA_6.1	-
GF0021138	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2541.1	C_unshiu_00621_mRNA_10.1	-
GF0021137	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2540.1	C_unshiu_00621_mRNA_11.1	-
GF0021136	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2539.1	C_unshiu_00621_mRNA_12.1	-
GF0021135	1	1	0	Hypothetical protein (1); Serine/threonine-protein kinase PBS1 (1)	protein binding [GO:0005515; molecular_function] (1); signal transduction [GO:0007165; biological_process] (1)	Toll/interleukin-1 receptor homology (TIR) domain [IPR000157] (1)	scaffold_3_mRNA_2537.1	C_unshiu_00621_mRNA_13.1	-
GF0021132	1	1	0	Hypothetical protein (2)	-	Endonuclease/exonuclease/phosphatase [IPR005135] (2)	scaffold_3_mRNA_2526.1	C_unshiu_00617_mRNA_14.1	-
GF0021131	1	1	0	Hypothetical protein (2)	transcription factor activity, sequence-specific DNA binding [GO:0003700; molecular_function] (1); regulation of transcription, DNA-templated [GO:0006355; biological_process] (1); DNA binding [GO:0003677; molecular_function] (1)	AP2/ERF domain [IPR001471] (1); DNA-binding domain [IPR016177] (1)	scaffold_3_mRNA_251	C_unshiu_00399_mRNA_13.1	-
GF0021130	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2499.1	C_unshiu_02644_mRNA_2.1	-
GF0021129	1	1	0	Zinc knuckle family protein (2)	nucleic acid binding [GO:0003676; molecular_function] (2); zinc ion binding [GO:0008270; molecular_function] (2)	Zinc finger, CCHC-type [IPR001878] (2); scaffold_3_mRNA_2498.1	scaffold_3_mRNA_2494.1	C_unshiu_00534_mRNA_18.1	-
GF0021128	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2498.1	C_unshiu_02548_mRNA_2.1	-
GF0021126	1	1	0	Caffeic acid 3-O-methyltransferase (1); Caffeic acid O-methyltransferase (1)	protein dimerization activity [GO:004983; molecular_function] (2); O-methyltransferase activity [GO:0008168; molecular_function] (2); O-methyltransferase activity [GO:0008171; molecular_function] (1)	Plant methyltransferase dimerization [IPR012067] (2); O-methyltransferase COMT-type [IPR016461] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR029685] (1); O-methyltransferase family 2 [IPR000177] (1)	scaffold_3_mRNA_2480.1	C_unshiu_02205_mRNA_2.1	-
GF0021125	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270; molecular_function] (2); protein binding [GO:000515; molecular_function] (2)	Zinc finger, RING-type [IPR001841] (2); Zinc finger, RING/FYVE/HD-type [IPR013083] (2); Zinc finger, RING-H2-type [IPR024246] (1)	scaffold_3_mRNA_2476.1	C_unshiu_01285_mRNA_1.1	-
GF0021124	1	1	0	RING-H2 finger B1A (2)	-	-	scaffold_3_mRNA_2472	C_unshiu_00343_mRNA_19.2	-
GF0021123	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2451.1	C_unshiu_01600_mRNA_5.1	-
GF0021122	1	1	0	Protein AIG1 (2)	GTP binding [GO:0005525; molecular_function] (2)	AGI-type gamma-macrotide-binding domain [IPR006703] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1)	scaffold_3_mRNA_2429.1	C_unshiu_02127_mRNA_2.1	-
GF0021121	1	1	0	Retrotransposon protein, putative, Ty3-gypsy subclass (2)	-	-	scaffold_3_mRNA_2428.1	C_unshiu_02127_mRNA_3.1	-
GF0021120	1	1	0	Retrotransposon protein, putative, Ty3-gypsy subclass (2)	nucleic acid binding [GO:0003676; molecular_function] (2); DNA integration [GO:0015074; biological_process] (2)	Integrase, catalyst core [IPR001584] (2); Ribonuclease H-like domain [IPR021337] (1); Zinc finger, CCHC-type [IPR001878] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1)	scaffold_3_mRNA_2427.1	C_unshiu_02127_mRNA_4.1	-
GF0021119	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2426.1	C_unshiu_02127_mRNA_5.1	-
GF0021118	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2423.1	C_unshiu_00373_mRNA_21.1	-
GF0021116	1	1	0	Protein AIG1 (2)	GTP binding [GO:0005525; molecular_function] (2)	AGI-type gamma-macrotide-binding domain [IPR006703] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2)	scaffold_3_mRNA_2422.1	C_unshiu_00373_mRNA_22.1	-
GF0021115	1	1	0	Protein AIG1 (2)	GTP binding [GO:0005525; molecular_function] (2)	(G) domain [IPR006703] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1)	scaffold_3_mRNA_2421.1	C_unshiu_00373_mRNA_23.1	-
GF0021114	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2419.1	C_unshiu_00373_mRNA_25.1	-
GF0021113	1	1	0	Hypothetical protein (1); Retrotransposon protein, putative, Ty3-gypsy subclass (1)	-	Aspartic peptidase domain [IPR021109] (1); Retinoblastoma-associated aspartyl protease [IPR003241] (1)	scaffold_3_mRNA_2417.1	C_unshiu_00491_mRNA_17.1	-
GF0021112	1	1	0	Protein AIG1 (2)	GTP binding [GO:0005525; molecular_function] (2)	AGI-type gamma-macrotide-binding domain [IPR006703] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2)	scaffold_3_mRNA_2409.1	C_unshiu_00964_mRNA_12.1	-
GF0021110	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2398.1	C_unshiu_00329_mRNA_3.1	-
GF0021108	1	1	0	Hypothetical protein (2)	GTP binding [GO:0005525; molecular_function] (2)	AGI-type gamma-macrotide-binding domain [IPR006703] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2)	scaffold_3_mRNA_2384.1	C_unshiu_01164_mRNA_1.1	-
GF0021107	1	1	0	Hypothetical protein (2)	-	-	scaffold_3_mRNA_2379.1	C_unshiu_00373_mRNA_3.1	-

ID	Num in <i>C. clementiae</i>	Num in <i>C. umshiu</i>	Num in <i>P. trifoliae</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliae</i>
GF0021106	1	1	0	Hypothetical protein (2)	GTP binding [GO:0005525 molecular_function] (1)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1); AG1-type guanine nucleotide-binding (G) domain [IPR006703] (1)	scaffold_3_mRNA_2378.1	C_umshiu_00373_mRNA_4.1	-
GF0021105	1	1	0	Protein AIG1 (2)	GTP binding [GO:0005525 molecular_function] (2)	AG1-type guanine nucleotide-binding (G) domain [IPR006703] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2)	scaffold_3_mRNA_2377.1	C_umshiu_00373_mRNA_6.1	-
GF0021104	1	1	0	Hypothetical protein (2)	GTP binding [GO:0005525 molecular_function] (2)	AG1-type guanine nucleotide-binding (G) domain [IPR006703] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2)	scaffold_3_mRNA_2376.1	C_umshiu_00373_mRNA_7.1	-
GF0021103	1	1	0	AIG1 domain-containing protein (2)	GTP binding [GO:0005525 molecular_function] (2)	AG1-type guanine nucleotide-binding (G) domain [IPR006703] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2)	scaffold_3_mRNA_2375.1	C_umshiu_00373_mRNA_8.1	-
GF0021102	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2369.1	C_umshiu_00372_mRNA_14.1	-
GF0021101	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2351.1	C_umshiu_00625_mRNA_7.1	-
GF0021100	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2348.1	C_umshiu_00625_mRNA_10.1	-
GF0021099	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2346.1	C_umshiu_00625_mRNA_13.1	-
GF0021098	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2345.1	C_umshiu_00625_mRNA_14.1	-
GF0021097	1	1	0	Phenylalanine/benzylic ether reductase-like protein (2)		NitrA-like domain [IPR008030] (1); NAD(P)-binding domain [IPR01640]	scaffold_3_mRNA_2343.1	C_umshiu_00625_mRNA_16.1	-
GF0021096	1	1	0	Cytokinin riboside 5'-monophosphate phosphoribohydrolase (2)		LOG family [IPR031100] (2)	scaffold_3_mRNA_2340.1	C_umshiu_00625_mRNA_19.1	-
GF0021095	1	1	0	Phenylalanine/benzylic ether reductase		NitrA-like domain [IPR008030] (2); NAD(P)-binding domain [IPR01640] (2)	scaffold_3_mRNA_2334.1	C_umshiu_01141_mRNA_2.1	-
GF0021094	1	1	0	Hypothetical protein (2)		Zinc finger, BED-type [IPR03656] (2)	scaffold_3_mRNA_2333.1	C_umshiu_01141_mRNA_3.1	-
GF0021093	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (2)		scaffold_3_mRNA_2332.1	C_umshiu_01141_mRNA_5.1	-
GF0021092	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2330.1	C_umshiu_01853_mRNA_1.1	-
GF0021091	1	1	0	Hypothetical protein (2)		Reverse transcriptase domain [IPR00477] (2)	scaffold_3_mRNA_2327.1	C_umshiu_01853_mRNA_5.1	-
GF0021090	1	1	0	Isoflavone reductase (1); Isoflavonoid reductase homolog 1 (1)		NAD(P)-binding domain [IPR01640] (2); NitrA-like domain [IPR008030] (2)	scaffold_3_mRNA_2322.1	C_umshiu_02472_mRNA_3.1	-
GF0021089	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2321.1	C_umshiu_02472_mRNA_2.1	-
GF0021088	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0046983 molecular_function] (1)	HAT, C-terminal dimerisation domain [IPR008906] (1)	scaffold_3_mRNA_2320.1	C_umshiu_00446_mRNA_17.1	-
GF0021087	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2319.1	C_umshiu_02156_mRNA_2.1	-
GF0021084	1	1	0	D-isomer specific 2-hydroxyacid dehydrogenase family protein isoform 2 (2)	oxidation-reduction process [GO:005114 biological_process] (2); NAD(P)-binding domain [GO:00451287 molecular_function] (2)	NAD(P)-binding domain [IPR01640] (2); D-isomer specific 2-hydroxyacid dehydrogenase NAD-binding domain [IPR00640] (2)	scaffold_3_mRNA_2312.1	C_umshiu_00410_mRNA_25.1	-
GF0021083	1	1	0	Hypothetical protein (2)	cofactor binding [GO:0005524 molecular_function] (2); protein kinase activity [GO:0004672 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2)	Protein kinase-like-domain [IPR011009] (2); Protein kinase domain [IPR00719] (2)	scaffold_3_mRNA_2309.1	C_umshiu_00410_mRNA_28.1	-
GF0021081	1	1	0	Putative non-LTR retroelement reverse transcriptase (2)		Endonuclease/exonuclease/phosphatase [IPR005135] (2); Reverse transcriptase domain [IPR00477] (2)	scaffold_3_mRNA_2300.1	C_umshiu_00453_mRNA_18.1	-
GF0021080	1	1	0	Ribonuclease H (2)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_3_mRNA_2275.1	C_umshiu_00618_mRNA_4.1	-
GF0021079	1	1	0	RNA-directed DNA polymerase : RNA-dependent RNA polymerase (1); Hypothetical protein (1)		Endonuclease/exonuclease/phosphatase [IPR005135] (2)	scaffold_3_mRNA_2271.1	C_umshiu_00618_mRNA_15.1	-
GF0021075	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2258.1	C_umshiu_00345_mRNA_19.1	-
GF0021074	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2248.1	C_umshiu_00902_mRNA_10.1	-
GF0021073	1	1	0	Putative retrovirus pol polyprotein (2)			scaffold_3_mRNA_2245.1	C_umshiu_00189_mRNA_10.1	-
GF0021071	1	1	0	Hypothetical protein (1); AC transposase, putative, expressed (1)	nucleic acid binding [GO:0003676 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_3_mRNA_2235.1	C_umshiu_00417_mRNA_6.1	-
GF0021070	1	1	0	BED zinc finger, hAT family dimerization domain (2)	oxidation-reduction process [GO:0003678 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2); HAT, C-terminal dimerisation activity [IPR008906] (2)	scaffold_3_mRNA_2234.1	C_umshiu_00417_mRNA_5.1	-
GF0021068	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2218.1	C_umshiu_02035_mRNA_1.1	-
GF0021067	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2212.1	C_umshiu_00417_mRNA_19.1	-
GF0021066	1	1	0	Kunitz trypsin inhibitor (2)	endopeptidase inhibitor activity [GO:004866 molecular_function] (2)	Protease inhibitor 13, Kunitz legume [IPR00160] (2); Kunitz inhibitor ST1-like [IPR01105] (2)	scaffold_3_mRNA_2209.1	C_umshiu_00765_mRNA_9.1	-
GF0021065	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2206.1	C_umshiu_00765_mRNA_5.1	-
GF0021064	1	1	0	Hypothetical protein (2)		Succinyl-CoA ligase, alpha subunit [IPR005110] (2); CoA-binding [IPR00378] (2); ATP-citrate lyase/succinyl-CoA ligase [IPR005811] (2)	scaffold_3_mRNA_2204.1	C_umshiu_00765_mRNA_3.1	-
GF0021062	1	1	0	Succinyl-CoA ligase [GDP-forming] subunit alpha, mitochondrial (2)	cofactor binding [GO:0048037 molecular_function] (2); catalytic activity [GO:0003824 molecular_function] (2); metabolic process [GO:000152 molecular_function] (2); biological_process [GO:000152 biological_process] (2)	Succinyl-CoA ligase, alpha subunit [IPR005110] (2); CoA-binding [IPR00378] (2); ATP-citrate lyase/succinyl-CoA ligase [IPR005811] (2); Succinyl-CoA synthetase-like [IPB016102] (2); ATP-citrate lyase/succinyl-CoA ligase, active site [IPR17440] (1); ATP-citrate lyase/succinyl-CoA ligase, conserved site [IPR033847] (1)	scaffold_3_mRNA_2183.1	C_umshiu_00297_mRNA_7.1	-
GF0021058	1	1	0	Hypothetical protein (2)		MULE transposase domain [IPR018289] (2)	scaffold_3_mRNA_2164.1	C_umshiu_00297_mRNA_14.1	-
GF0021054	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2147.1	C_umshiu_02179_mRNA_2.1	-
GF0021053	1	1	0	Hypothetical protein (2)	nucleosome:cellular component [GO:000786 molecular_function] (2); DNA binding [GO:0005677 molecular_function] (2); protein heterodimerization activity [GO:0046982 molecular_function] (2)	Histone H2B [IPR000558] (2); Histone fold [IPR00972] (2)	scaffold_3_mRNA_2142.1	C_umshiu_00721_mRNA_9.1	-
GF0021052	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2139.1	C_umshiu_00669_mRNA_1.1	-
GF0021051	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2135.1	C_umshiu_00938_mRNA_1.1	-
GF0021050	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2116.1	C_umshiu_00837_mRNA_3.1	-
GF0021049	1	1	0	Endoglucanase (2)	hypothetical protein [GO:0007957 molecular_function] (2); biological process [GO:0007957 molecular_function] (2)	Six-chain glycosidase-like [IPR008928] (2); Glycoside hydrolase family 9 [IPR00170] (2); Glycolyl hydrolases family 9, Asp/Glu active sites [IPR033126] (1); Six-chain glycosidase [IPR12341] (1)	scaffold_3_mRNA_210.1	C_umshiu_00223_mRNA_23.1	-
GF0021048	1	1	0	DNA polymerase (Reverse transcriptase) (1)		Reverse transcriptase domain [IPR00477] (2)	scaffold_3_mRNA_2091.1	C_umshiu_00224_mRNA_5.1	-
GF0021047	1	1	0	TMV resistance N (2)		Lysine-rich repeat domain, L-domain-like [IPB013265] (2)	scaffold_3_mRNA_2089.1	C_umshiu_00493_mRNA_10.1	-
GF0021046	1	1	0	Hypothetical protein (1); Disease resistance protein (TIR-NBS-LRR class) (1)	ADP binding [GO:0043531 molecular_function] (1)	Lysine-rich repeat domain, L-domain-like [IPB013265] (2); P-loop containing nucleoside triphosphate hydrolase domain [IPR027417] (1); NB-ARC [IPR002182]	scaffold_3_mRNA_2086.1	C_umshiu_00493_mRNA_8.1	-
GF0021044	1	1	0	Verticillium wilt resistance-like protein (2)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat domain, L-domain-like [IPB032651] (2); Leucine-rich repeat, typical subtype [IPR001591] (2); Leucine-rich repeat-containing N-terminal domain [IPB032610] (2)	scaffold_3_mRNA_2065.1	C_umshiu_00356_mRNA_7.1	-
GF0021041	1	1	0	Hypothetical protein (2)		Malatol-like carbohydrate-binding domain [IPR024788] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (1)	scaffold_3_mRNA_2048.1	C_umshiu_01252_mRNA_1.1	-
GF0021040	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2035.1	C_umshiu_00101_mRNA_11.1	-
GF0021039	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2029.1	C_umshiu_00101_mRNA_6.1	-
GF0021036	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_2007.1	C_umshiu_00841_mRNA_7.1	-
GF0021035	1	1	0	Retrotransposon gag protein, putative (1); Hypothetical protein (1)		Retrotransposon gag domain [IPR005162] (2); Retroviral aspartyl protease [IPB013243] (1); Aspartic peptide domain [IPR021109] (1)	scaffold_3_mRNA_2002.1	C_umshiu_00350_mRNA_33.1	-
GF0021034	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1990.1	C_umshiu_01489_mRNA_7.1	-
GF0021033	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1992.1	C_umshiu_01100_mRNA_10.1	-
GF0021032	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1981.1	C_umshiu_01100_mRNA_22.1	-
GF0021031	1	1	0	Transposon protein, putative, unclassified, expressed (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2)	FARI DNA binding domain [IPR004330] (2); FH1/FAR1 family [IPR031052] (2); MULE transposase domain [IPR018289] (2)	scaffold_3_mRNA_1977.1	C_umshiu_00674_mRNA_13.1	-
GF0021030	1	1	0	CAAX amino terminal protease family member (2)	membrane [GO:001620 cellular_component] (2)	CAAX amino terminal protease [IPR003675] (2)	scaffold_3_mRNA_197.1	C_umshiu_00541_mRNA_18.1	-
GF0021029	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1963.1	C_umshiu_01043_mRNA_2.1	-
GF0021028	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1960.1	C_umshiu_02795_mRNA_1.1	-
GF0021027	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1957.1	C_umshiu_01530_mRNA_8.1	-
GF0021026	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1955.1	C_umshiu_02770_mRNA_2.1	-
GF0021025	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1953.1	C_umshiu_02770_mRNA_6.1	-
GF0021024	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1940.1	C_umshiu_01409_mRNA_2.1	-
GF0021023	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1915.1	C_umshiu_02323_mRNA_3.1	-
GF0021022	1	1	0	Cation/H ⁺ antiporter 15 (2)	solute:cation antiporter activity [GO:001529 molecular_function] (2); transmembrane transport [GO:0005585 biological_process] (2); integral component of membrane [GO:0016021 cellular_component] (2); cation transport [GO:0006812 biological_process] (2)	Cation/H ⁺ exchanger [IPR006153] (2); Rossmann-like alpha/alpha sandwich fold [IPR024729] (1)	scaffold_3_mRNA_191.1	C_umshiu_00541_mRNA_10.1	-

ID	Num. in <i>C. clementine</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Name	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0021020	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1898.1	C_unshiu_00366_mRNA_2.1	-
GF0021018	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1887.1	C_unshiu_02614_mRNA_8.1	-
GF0021017	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1881.1	C_unshiu_00050_mRNA_20.1	-
GF0021016	1	1	0	Integrase (2)	nucleic acid binding [GO:0003676 molecular function] (2); DNA integration [GO:0015074 biological process] (2)	Ribonuclease H-like domain [IPR012337] (2); Integrase, catalytic core [IPR001384] (2); Retropseudon gag domain [IPR005162] (1)	scaffold_3_mRNA_1876.1	C_unshiu_00164_mRNA_31.1	-
GF0021014	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1852.1	C_unshiu_01432_mRNA_5.1	-
GF0021013	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1851.1	C_unshiu_01432_mRNA_6.1	-
GF0021012	1	1	0	Hypothetical protein (2)		Reverse transcriptase domain [IPR000477] (2)	scaffold_3_mRNA_1848.1	C_unshiu_00104_mRNA_31.1	-
GF0021011	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1844.1	C_unshiu_01432_mRNA_11.1	-
GF0021010	1	1	0	ABC transporter C family member 10 (2)	transmembrane transport [GO:0045505 biological process] (2); ATP binding [GO:000524 molecular function] (2); ATPase activity, coupled to transmembrane movement of substances [GO:0006812 biological process] (2); ATPase activity [GO:000887 molecular function] (2); integral component of membrane [GO:0016021 cellular component] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); ABC transporter, nucleotide-binding [IPR001439] (2); ABC transporter, type I, amino acid [IPR001527] (2); AAA+ ATPase domain [IPR0031593] (2); ABC transporter, conserved site [IPR017871] (2)	scaffold_3_mRNA_184.1	C_unshiu_00541_mRNA_4.1	-
GF0021009	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1839.1	C_unshiu_01029_mRNA_8.1	-
GF0021008	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1826.1	C_unshiu_00280_mRNA_9.1	-
GF0021007	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1812.1	C_unshiu_01671_mRNA_5.1	-
GF0021005	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1806.1	C_unshiu_01666_mRNA_10.1	-
GF0021004	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_181.1	C_unshiu_00852_mRNA_14.1	-
GF0021003	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1797.1	C_unshiu_01242_mRNA_4.1	-
GF0021002	1	1	0	RNA-directed DNA polymerase (1); Hypothetical protein (1)		Reverse transcriptase domain [IPR000477] (1)	scaffold_3_mRNA_1789.1	C_unshiu_00579_mRNA_16.1	-
GF0021001	1	1	0	Ribonuclease P/MRP protein subunit POP5 (2)	ribonuclease activity [GO:0004540 molecular function] (2); tRNA processing [GO:0000333 biological process] (2); ribonuclease P activity [GO:0004526 molecular function] (1); RNA metabolic process [GO:0016070 biological process] (1)	Ribonuclease P/MRP protein subunit [IPR002759] (2); Ribonuclease P/MRP protein subunit Pop5 [IPR016819] (1)	scaffold_3_mRNA_1771.1	C_unshiu_00463_mRNA_6.1	-
GF0021000	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1770.1	C_unshiu_00463_mRNA_7.1	-
GF0020999	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1766.1	C_unshiu_00463_mRNA_10.1	-
GF0020998	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_3_mRNA_1763.1	C_unshiu_00463_mRNA_13.1	-
GF0020997	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (1)	Ribonuclease H-like domain [IPR012337] (1)	scaffold_3_mRNA_1762.1	C_unshiu_00463_mRNA_15.1	-
GF0020996	1	1	0	Hypothetical protein (2)		Zinc knuckle CX2CX4HX4C [IPR025836] (2)	scaffold_3_mRNA_1761.1	C_unshiu_00463_mRNA_16.1	-
GF0020995	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1754.1	C_unshiu_00373_mRNA_23.1	-
GF0020994	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1750.1	C_unshiu_00948_mRNA_10.1	-
GF0020993	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1737.1	C_unshiu_01797_mRNA_4.1	-
GF0020992	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1719.1	C_unshiu_01797_mRNA_4.1	-
GF0020991	1	1	0	IAA-amino acid hydrolase ILR1-like 4 (1); IAA-amino acid hydrolase ILR1-like 8 (1)	metabolic process [GO:0000152 biological process] (1); hydrolase activity [GO:0016787 biological process] (1); IAA-amino acid hydrolase ILR1-like 4 (1); IAA-amino acid hydrolase ILR1-like 8 (1)	Peptidase M20, dimerisation domain [IPR011650] (1); Peptidase M20 [IPR02933] (1)	scaffold_3_mRNA_1713.1	C_unshiu_01859_mRNA_4.1	-
GF0020990	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1711.1	C_unshiu_00542_mRNA_10.1	-
GF0020988	1	1	0	Ta11 non-LTR retroelement protein-like (2)		Domain of unknown function DUF4283 [IPR025558] (2); Zinc knuckle CX2CX4HX4C [IPR025835] (2)	scaffold_3_mRNA_1708.1	C_unshiu_01834_mRNA_4.1	-
GF0020987	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1707.1	C_unshiu_01834_mRNA_3.1	-
GF0020985	1	1	0	Peroxidase 5 (1); Hypothetical protein (1)	heme binding [GO:0020037 molecular function] (2); response to oxidant [GO:00006979 biological process] (2); peroxidase activity [GO:0004601 molecular function] (2); oxidation-reduction process [GO:0055114 biological process] (2)	Hem peroxidase [IPR010255] (2); Plant peroxidase [IPR000521] (1); Hem peroxidase; plant/fungal/bacterial [IPR002016] (2)	scaffold_3_mRNA_1698.1	C_unshiu_00542_mRNA_5.1	-
GF0020984	1	1	0	Nascent polypeptide-associated complex subunit alpha-like protein (2)		Nascent polypeptide-associated complex NAC domain [IPR002715] (2); Nascent polypeptide-associated complex subunit alpha [IPR016641] (2)	scaffold_3_mRNA_1697.1	C_unshiu_00542_mRNA_3.1	-
GF0020983	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_169.1	C_unshiu_00609_mRNA_5.1	-
GF0020982	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1688.1	C_unshiu_01224_mRNA_7.1	-
GF0020981	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1686.1	C_unshiu_01224_mRNA_9.1	-
GF0020980	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1683.1	C_unshiu_02726_mRNA_1.1	-
GF0020979	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1681.1	C_unshiu_01253_mRNA_2.1	-
GF0020977	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1684.1	C_unshiu_00564_mRNA_4.1	-
GF0020976	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1683.1	C_unshiu_00180_mRNA_31.1	-
GF0020975	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_165.1	C_unshiu_00609_mRNA_10.1	-
GF0020974	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular function] (1); nucleic acid binding [GO:0008270 molecular function] (1)	Endonuclease/exonuclease/phosphatase [IPR005135] (2); Zinc finger, CCHC-type [IPR001878] (1); Zinc knuckle CX2CX4HX4C [IPR025835] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_3_mRNA_1648.1	C_unshiu_00431_mRNA_10.1	-
GF0020973	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1628.1	C_unshiu_02854_mRNA_2.1	-
GF0020971	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1624.1	C_unshiu_00392_mRNA_14.1	-
GF0020970	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1619.1	C_unshiu_00793_mRNA_13.1	-
GF0020969	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1618.1	C_unshiu_00793_mRNA_12.1	-
GF0020968	1	1	0	Hypothetical protein (2)		regulation of transcription, DNA-templated [GO:0006355 biological process] (2)	scaffold_3_mRNA_1614.1	C_unshiu_00793_mRNA_5.1	-
GF0020967	1	1	0	Hypothetical protein (2)		MAR DNA binding domain [IPR004130] (2); MULE transposase domain [IPR018289] (1)	scaffold_3_mRNA_1612.1	C_unshiu_00793_mRNA_3.1	-
GF0020966	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1609.1	C_unshiu_02958_mRNA_4.1	-
GF0020965	1	1	0	Phenazine biosynthesis PhzC/PhzF family protein (2)	biotransformation process [GO:0009058 biological process] (2); catalytic activity [GO:0003824 molecular function] (2)	Phenazine biosynthesis PhzF protein [IPR003719] (2)	scaffold_3_mRNA_1606.1	C_unshiu_00069_mRNA_66.1	-
GF0020962	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1592.2	C_unshiu_01627_mRNA_4.1	-
GF0020961	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1586.1	C_unshiu_00264_mRNA_13.1	-
GF0020960	1	1	0	Acetylacetate synthase small subunit (1); Hypothetical protein (1)	proteinoylation [GO:000508 biological process] (2); amino acid binding [GO:0016597 molecular function] (2); serine-type endopeptidase activity [GO:0004252 molecular function] (2); branched-chain amino acid biosynthetic process [GO:000982 biological process] (2); acetylacetate synthase activity [GO:0003984 molecular function] (2); metabolic process [GO:0000152 biological process] (2); pyridoxal phosphate binding [GO:003170 molecular function] (2); catalytic activity [GO:0003824 molecular function] (1)	Acetylacetate synthase, small subunit [IPR004789] (2); Peptidase S1C [IPR004790] (2); Cysteine protease, pyridoxal phosphate-dependent enzyme [IPR00077] (2); Peptidase S1, PA clan [IPR009003] (2); ACT domain [IPR020912] (2); Pyridoxal phosphate-dependent transferase, major region, subdomain [IPR015421] (1); Pyridoxal phosphate-dependent transferase [IPR015424] (1)	scaffold_3_mRNA_1579.1	C_unshiu_01812_mRNA_2.1	-
GF0020959	1	1	0	Hypothetical protein (2)	calcium ion binding [GO:0005509 molecular function] (2); phospholipase A2 activity [GO:0006263 molecular function] (2)		scaffold_3_mRNA_1572.1	C_unshiu_00772_mRNA_6.1	-
GF0020958	1	1	0	Phospholipase A2 family protein (1); Phospholipase A2 (1)	process (GO:0016042 biological process) (2); phospholipid metabolic process [GO:0006644 biological process] (1); arachidonic acid secretion [GO:0009482 biological process] (1)	Phospholipase A2 [IPR001211] (2); Phospholipase A2 domain [IPR016090] (2); Phospholipase A2, histidine active site [IPR003113] (2)	scaffold_3_mRNA_1567.1	C_unshiu_00480_mRNA_18.1	-
GF0020956	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1551.1	C_unshiu_00935_mRNA_4.1	-
GF0020954	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1553.1	C_unshiu_02518_mRNA_4.1	-
GF0020951	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1484.1	C_unshiu_01286_mRNA_4.1	-
GF0020950	1	1	0	Hypothetical protein (2)		Haem oxygenase-like, multi-helical [IPR01684] (1)	scaffold_3_mRNA_1479.1	C_unshiu_00936_mRNA_5.1	-
GF0020949	1	1	0	Hypothetical protein (2)		Transposase, MuDR, plant [IPR004332] (2); Parallel beta-helix repeat [IPR006626] (2); Glycoside hydrolase, family 28 [IPR000743] (2); Pectin lyase fold [IPR012334] (2); Pectin lyase fold/virulence factor [IPR011050] (2)	scaffold_3_mRNA_1471.1	C_unshiu_03075_mRNA_1.1	-
GF0020948	1	1	0	Glycoside hydrolase family 28 protein (2)	polygalacturonase activity [GO:0004650 molecular function] (2); carbohydrate metabolic process [GO:0005975 biological process] (2)		scaffold_3_mRNA_147.1	C_unshiu_00609_mRNA_25.1	-
GF0020947	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1466.1	C_unshiu_01915_mRNA_3.1	-
GF0020945	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1446.1	C_unshiu_00195_mRNA_11.1	-
GF0020944	1	1	0	Hypothetical protein (2)		SRA-YDG [IPR003105] (2); PUAs-like domain [IPR011947] (2)	scaffold_3_mRNA_1422.1	C_unshiu_01257_mRNA_7.1	-
GF0020942	1	1	0	Transcription factor bHLH125 (1); Hypothetical protein (1)	protein dimerization activity [GO:0046983 molecular function] (2)	Myc-type, basic helix-loop-helix (bHLH) domain [IPR011598] (2)	scaffold_3_mRNA_1402.1	C_unshiu_01216_mRNA_3.1	-
GF0020940	1	1	0	Hypothetical protein (2)		Isopeptidase synthase domain [IPR008949] (1); Peptidase cycles/protein metallo-endopeptidase alpha-alpha toroid [IPR008930] (1)	scaffold_3_mRNA_1362.1	C_unshiu_00164_mRNA_46.1	-
GF0020939	1	1	0	Hypothetical protein (2)		Retrotransposon gag domain [IPR005162] (2)	scaffold_3_mRNA_1355.1	C_unshiu_02396_mRNA_1.1	-
GF0020938	1	1	0	Hypothetical protein (2)		Chrom domain [IPR016197] (1); Chrom domain [IPR023780] (1)	scaffold_3_mRNA_1336.1	C_unshiu_00752_mRNA_4.1	-

ID	Num. in <i>C. clementiae</i>	Num. in <i>C. umshiu</i>	Num. in <i>P. trifoliae</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliae</i>
GF0020937	1	1	0	Hypothetical protein (2)		Protein-only RNAse P-C-terminal repeat region of PROPR [IPR034433] (1); High mobility group box domain [IPR009971] (2)	scaffold_3_mRNA_1335.1	C_umshiu_00752_mRNA_2.1	-
GF0020936	1	1	0	Hypothetical protein (2)		Fatty acyl-CoA reductase (alcohol-forming) activity [GO:0008019 molecular_function] (2)	scaffold_3_mRNA_1334.1	C_umshiu_00968_mRNA_8.1	-
GF0020935	1	1	0	Hypothetical protein (2)		Fatty acyl-CoA reductase [IPR026055] (2)	scaffold_3_mRNA_1332.1	C_umshiu_00381_mRNA_5.1	-
GF0020933	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF1985 [IPR015410] (2)	scaffold_3_mRNA_1320.1	C_umshiu_00149_mRNA_28.1	-
GF0020930	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4216 [IPR025312] (2); Domain of unknown function DUF4218 [IPR025452] (2)	scaffold_3_mRNA_1312.1	C_umshiu_00149_mRNA_20.1	-
GF0020927	1	1	0	Transposase (2)			scaffold_3_mRNA_1299.1	C_umshiu_00157_mRNA_17.1	-
GF0020926	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1297.1	C_umshiu_02014_mRNA_2.1	-
GF0020925	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1283.1	C_umshiu_01468_mRNA_3.1	-
GF0020923	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1271.1	C_umshiu_01165_mRNA_5.1	-
GF0020922	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1268.1	C_umshiu_01165_mRNA_2.1	-
GF0020921	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1260.1	C_umshiu_00227_mRNA_4.1	-
GF0020920	1	1	0	Putative PfafA transposase (2)		Harbinger transposase-derived nucleic acid domain [IPR027780] (2); Myb-SANT-domain-like domain [IPR024752] (2)	scaffold_3_mRNA_1259.1	C_umshiu_00227_mRNA_5.1	-
GF0020919	1	1	0	Hypothetical protein (2)		Ribonuclease H-like domain [IPR012337] (1)	scaffold_3_mRNA_1236.1	C_umshiu_02212_mRNA_3.1	-
GF0020918	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1224.1	C_umshiu_01714_mRNA_4.1	-
GF0020915	1	1	0	Hypothetical protein (2)		Zinc finger, PMZ-type [IPR006564] (2); Zinc finger, SWIM-type [IPR07527] (1)	scaffold_3_mRNA_1200.1	C_umshiu_00695_mRNA_1.1	-
GF0020914	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1197.1	C_umshiu_00695_mRNA_2.1	-
GF0020913	1	1	0	Ethylene-responsive transcription factor (2)		DNA-binding domain [IPR016177] (2); AP2/ERF domain [IPR004171] (2); AP2/ERF transcription factor ERF/PTB [IPR017592] (1)	scaffold_3_mRNA_1195.1	C_umshiu_00695_mRNA_3.1	-
GF0020912	1	1	0	Hypothetical protein (2)		Mitochondrial carrier domain [IPR023395] (2); Mitochondrial substrate/carrier [IPR018108] (2)	scaffold_3_mRNA_1181.1	C_umshiu_00843_mRNA_10.1	-
GF0020911	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1175.1	C_umshiu_00843_mRNA_5.1	-
GF0020908	1	1	0	Hypothetical protein (2)		Oxoguanine-iron-dependent oxygenase synthase-like [IPR027443] (2)	scaffold_3_mRNA_1167.1	C_umshiu_00580_mRNA_23.1	-
GF0020907	1	1	0	Hypothetical protein (2)		Zinc finger, CCIC-type [IPR001878] (2); Zinc knuckle CX2CX4C	scaffold_3_mRNA_1162.1	C_umshiu_00580_mRNA_16.1	-
GF0020906	1	1	0	Protein BREAKING OF ASYMMETRY IN THE STOMATAL LINEAGE (2)		[IPR000594] (2); Nucleotide-binding alpha-beta plait domain [IPR012677] (1)	scaffold_3_mRNA_1147.1	C_umshiu_00580_mRNA_2.1	-
GF0020905	1	1	0	Hypothetical protein (2)		Ribonuclease H-like domain [IPR012337] (2)	scaffold_3_mRNA_1143.1	C_umshiu_02363_mRNA_3.1	-
GF0020902	1	1	0	DUF4283 domain protein (2)		Domain of unknown function DUF4283 [IPR025455] (2)	scaffold_3_mRNA_1137.1	C_umshiu_00154_mRNA_3.1	-
GF0020901	1	1	0	Hypothetical protein (2)		nucleic acid binding [GO:0003676 molecular_function] (2); zinc ion binding [GO:00007270 molecular_function] (2)	scaffold_3_mRNA_1136.1	C_umshiu_00154_mRNA_4.1	-
GF0020898	1	1	0	RNA-binding (RRM/BRD/RNP motif) family protein (1); Hypothetical protein (1)		nucleic acid binding [GO:0003676 molecular_function] (2); nucleotide binding [GO:0000166 molecular_function] (1)	scaffold_3_mRNA_1100.1	C_umshiu_01729_mRNA_1.1	-
GF0020897	1	1	0	Hypothetical protein (2)		RNA recognition motif domain [IPR000594] (2); Nucleotide-binding alpha-beta plait domain [IPR012677] (1)	scaffold_3_mRNA_1086.1	C_umshiu_00331_mRNA_13.1	-
GF0020896	1	1	0	Hypothetical protein (2)		Ribonuclease H-like domain [IPR012337] (2)	scaffold_3_mRNA_1083.1	C_umshiu_00331_mRNA_10.1	-
GF0020895	1	1	0	PLASMODEMAS CALLOSE-BINDING PROTEIN 3 (2)		X8 domain [IPR012946] (2)	scaffold_3_mRNA_1081.1	C_umshiu_00331_mRNA_8.1	-
GF0020894	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1076.1	C_umshiu_00331_mRNA_4.1	-
GF0020893	1	1	0	Hypothetical protein (2)		Rossmann-like alpha-beta-alpha sandwich fold [IPR014729] (2); Cysteinylin-8R synthetase/methylol ligase [IPR024909] (2); tRNA synthetase class I, catalytic domain [IPR032678] (2)	scaffold_3_mRNA_1052.1	C_umshiu_00030_mRNA_87.1	-
GF0020891	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_1038.1	C_umshiu_00030_mRNA_75.1	-
GF0020890	1	1	0	Beta-amylase, family GH4 (1); Chloroplast beta-amylase 3 (1)		polysaccharide catabolic process [GO:00007272 biological_process] (2); beta-amylase activity [GO:0016161 molecular_function] (2); carbohydrate metabolic process [GO:0005975 biological_process] (1)			
GF0020889	1	1	0	Hypothetical protein (1); RNA-directed DNA polymerase (Reverse transcriptase) (1)					
GF0020888	1	1	0	Hypothetical protein (2)					
GF0020887	1	1	0	Hypothetical protein (2)					
GF0020886	1	1	0	Hypothetical protein (2)					
GF0020883	1	1	0	Hypothetical protein (2)					
GF0020881	1	1	0	Hypothetical protein (2)					
GF0020880	1	1	0	Hypothetical protein (2)					
GF0020879	1	1	0	Hypothetical protein (2)					
GF0020878	1	1	0	Hypothetical protein (1); Ribonuclease H		nucleic acid binding [GO:0003676 molecular_function] (2)	scaffold_2_mRNA_999.1	C_umshiu_00514_mRNA_7.1	-
GF0020877	1	1	0	Hypothetical protein (2)		protein binding [GO:0005515 molecular_function] (2)	scaffold_2_mRNA_998.1	C_umshiu_00514_mRNA_8.1	-
GF0020875	1	1	0	Hypothetical protein (2)		nucleic acid binding [GO:0003676 molecular_function] (2); RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular_function] (1)	scaffold_2_mRNA_993.1	C_umshiu_00514_mRNA_19.1	-
GF0020874	1	1	0	Hypothetical protein (2)		Protein kinase-like domain [IPR011099] (2)	scaffold_2_mRNA_986.1	C_umshiu_00894_mRNA_7.1	-
GF0020872	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_981.1	C_umshiu_00729_mRNA_5.1	-
GF0020871	1	1	0	Verticillium wilt resistance-like protein (2)			scaffold_2_mRNA_980.1	C_umshiu_00444_mRNA_19.1	-
GF0020870	1	1	0	Non-LTR retroelement reverse transcriptase-like, putative (2)		nucleic acid binding [GO:0003676 molecular_function] (2); RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular_function] (2)	scaffold_2_mRNA_968.1	C_umshiu_00960_mRNA_15.1	-
GF0020869	1	1	0	Hypothetical protein (2)					
GF0020866	1	1	0	Phytophthora II 5 kDa protein, chloroplastic (2)					
GF0020865	1	1	0	Zinc finger CCCH domain-containing protein 24 (2)		protein binding [GO:0005515 molecular_function] (1)			
GF0020864	1	1	0	Aldehyde dehydrogenase (2)		metabolic process [GO:0000152 biological_process] (2); oxidation-reduction process [GO:0005114 molecular_function] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); cellular aldehyde dehydrogenase process [GO:0008081 biological_process] (2); oxidoreductase activity, acting on the aldehyde or oxo group of donors, NAD or NADP as acceptor [GO:0016620 molecular_function] (1); aldehyde dehydrogenase [NAD(P)]^+ activity [GO:0004030 molecular_function] (1)			
GF0020863	1	1	0	Hypothetical protein (2)					
GF0020862	1	1	0	F-box protein SKIP23 (2)		protein binding [GO:0005515 molecular_function] (1)			
GF0020860	1	1	0	Outer envelope protein 80, chloroplastic (2)		outer membrane [GO:0019867 cellular_component] (2)			
GF0020858	1	1	0	Sucrose phosphate phosphatase (2)		sucrose-phosphate phosphatase activity [GO:005307 molecular_function] (2); magnesium ion binding [GO:0000287 molecular_function] (2); sucrose biosynthetic process [GO:0005986 biological_process] (2)			
GF0020856	1	1	0	Hypothetical protein (2)					

ID	Num. in <i>C. clementine</i>	Num. in <i>C. cambin</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. cambin</i>	Members in <i>P. trifoliata</i>
GF0020855	1	1	0	DUF247 domain protein (1); UPF0481	Protein of unknown function DUF247; plant [IPR040158] (2)	scaffold_2_mRNA_801.1 scaffold_2_mRNA_797.1	C_unshiu_00550_mRNA_15.1 C_unshiu_00550_mRNA_11.1	-	-
GF0020854	1	1	0	Hypothetical protein (2)	Protein of unknown function DUF594 [IPR040159] (2); Domain of unknown function DUF594 [IPR025315] (2)	scaffold_2_mRNA_788.1	C_unshiu_00550_mRNA_1.1	-	-
GF0020853	1	1	0	DUF594 family protein (2)	Protein of unknown function DUF594 [IPR040159] (2); Domain of unknown function DUF594 [IPR025315] (2)	scaffold_2_mRNA_787.1 scaffold_2_mRNA_783.1 scaffold_2_mRNA_775.1	C_unshiu_00260_mRNA_39.1 C_unshiu_00260_mRNA_35.1 C_unshiu_00260_mRNA_28.1	-	-
GF0020852	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0046983 molecular function] (2)	[IPR007658] (2)	scaffold_2_mRNA_787.1 scaffold_2_mRNA_783.1 scaffold_2_mRNA_775.1	-	-
GF0020851	1	1	0	Hypothetical protein (2)	oxidoreductase activity, involving paired desorption and reduction of molecular oxygen [GO:0016705]	[IPR007658] (2)	scaffold_2_mRNA_787.1 scaffold_2_mRNA_783.1 scaffold_2_mRNA_775.1	-	-
GF0020850	1	1	0	Transcription factor BHLH130 (1); Transcription factor BHLH122 (1)	molecular function (2); transcription factor activity, sequence-specific DNA binding [GO:00020037 molecular function] (2); iron-sulfur binding [GO:0005506 molecular function] (2)	[IPR0011598] (2)	C_unshiu_00260_mRNA_39.1 C_unshiu_00260_mRNA_35.1 C_unshiu_00260_mRNA_28.1	-	-
GF0020847	1	1	0	Hypothetical protein (2)	biosynthetic process [GO:0000508 biological process] (2); cysteine-type peptidase activity [GO:0008234 molecular function] (2); transferase activity [GO:0016740 molecular function] (2); oxidation-reduction process [GO:005514 biological process] (2); gene binding [GO:00020037 molecular function] (2); iron-sulfur binding [GO:0005506 molecular function] (2)	-	scaffold_2_mRNA_761.1	C_unshiu_00260_mRNA_15.1	-
GF0020846	1	1	0	Cysteine protease (1); Hypothetical protein (1)	cysteine-type peptidase activity [GO:0004310 molecular function] (1); transferase activity, transferring alkyl or aryl (other than methyl) groups [GO:0004310 molecular function] (1); ergosterol biosynthetic process [GO:0006696 biological process] (1); squalene synthase activity [GO:0051996 molecular function] (1)	-	scaffold_2_mRNA_76.1	C_unshiu_00213_mRNA_28.1	-
GF0020845	1	1	0	Hypothetical protein (2)	metabolic process [GO:00000142 biological process] (2); transferase activity, transferring hexosyl groups [GO:0001675 molecular function] (2); transferase activity, transferring alkyl or aryl (other than methyl) groups [GO:0001675 molecular function] (2); biosynthesis [GO:0009058 biological process] (2); transferase activity [GO:00016740 molecular function] (2); ergosterol biosynthetic process [GO:0006696 biological process] (1); squalene synthase activity [GO:0051996 molecular function] (1)	-	scaffold_2_mRNA_759.1	C_unshiu_00260_mRNA_14.1	-
GF0020844	1	1	0	UDP-glucose flavonoid 3-O-glucosyltransferase 7 (2)	UDP-glucuronosyl UDP-glucosyltransferase [IPR002213] (2)	scaffold_2_mRNA_751.1	C_unshiu_00260_mRNA_6.1	-	
GF0020843	1	1	0	Phytoene synthase (2)	metabolic process [GO:00001616 biological process] (2); phytoene synthase activity, acting on single donors with incorporation of molecular oxygen, not integral to a membrane [GO:00001616 biological process] (2); phytoene synthase activity [GO:0004310 molecular function] (1); squalene synthase activity [GO:0006696 molecular function] (1); ergosterol biosynthetic process [GO:0006696 biological process] (1)	-	scaffold_2_mRNA_75.1	C_unshiu_00213_mRNA_29.1	-
GF0020842	1	1	0	UDP-glucose flavonoid 3-O-glucosyltransferase 7 (2)	metabolic process [GO:000016152 biological process] (2); transferase activity, transferring hexosyl groups [GO:0001675 molecular function] (2); UDP-glucuronosyl UDP-glucosyltransferase [IPR002213] (2)	scaffold_2_mRNA_743.1	C_unshiu_00260_mRNA_5.1	-	
GF0020841	1	1	0	Histidine-containing phosphotransferase protein 4 (2)	histidine-containing phosphotransferase protein 4 (2)	Signal transduction histidine kinase, phosphotransferase (Hpt) domain [IPR000207] (2)	scaffold_2_mRNA_738.1	C_unshiu_00028_mRNA_25.1	-
GF0020837	1	1	0	Lipoxygenase (2)	oxido-reductase activity [GO:0016491 molecular function] (2); oxidation-reduction process [GO:005514 biological process] (2); lipoxygenase activity, acting on single donors with incorporation of molecular oxygen, not integral to a membrane [GO:0016491 molecular function] (2); lipoxygenase activity, acting on single donors with incorporation of two atoms of oxygen [GO:0016702 molecular function] (2); metal ion binding [GO:0046872 molecular function] (2); protein binding [GO:0000515 molecular function] (2)	Lipoxygenase, plant [IPR001246] (2); Lipoxygenase, C-terminal [IPR002743] (2); PLAT/LH2 domain [IPR001024] (2); Lipoxygenase [IPR000907] (2); Lipoxygenase, conserved site [IPR020834] (2); Lipoxygenase, iron binding site [IPR020833] (2); Lipoxygenase, C-terminal [IPR013819]	scaffold_2_mRNA_708.1	C_unshiu_00076_mRNA_52.1	-
GF0020836	1	1	0	Hypothetical protein (2)	protein binding [GO:00005515 molecular function] (2); metal ion binding [GO:0046872 molecular function] (2); protein binding [GO:0000515 molecular function] (2); oxidation-reductase activity [GO:0016491 molecular function] (2); oxidation-reduction process [GO:005514 biological process] (2)	-	scaffold_2_mRNA_705.1	C_unshiu_00871_mRNA_11.1	-
GF0020834	1	1	0	Putative lipoxygenase 5 (2)	putative lipoxygenase 5 (2)	Lipoxygenase, C-terminal [IPR015819] (2); Lipoxygenase, iron binding site [IPR020833] (2); PLAT/LH2 domain [IPR001024] (2); Lipoxygenase, plant [IPR001246] (2)	scaffold_2_mRNA_701.1	C_unshiu_00076_mRNA_47.1	-
GF0020833	1	1	0	Hypothetical protein (2)	metal ion binding [GO:0046872 molecular function] (2); protein binding [GO:0000515 molecular function] (2); oxidation-reduction process [GO:005514 molecular function] (2); oxidation-reductase activity, acting on single donors with incorporation of molecular oxygen, not integral to a membrane [GO:0016491 molecular function] (2); oxidation-reduction process [GO:005514 biological process] (2)	Lipoxygenase, conserved site [IPR020834] (2); Lipoxygenase, C-terminal [IPR013819] (2); Lipoxygenase, iron binding site [IPR020833] (2); PLAT/LH2 domain [IPR001024] (2); Lipoxygenase, plant [IPR001246] (2); Lipoxygenase, domain 3 [IPR027433] (2); Lipoxygenase [IPR000907] (2)	scaffold_2_mRNA_697.1	C_unshiu_00076_mRNA_44.1	-
GF0020832	1	1	0	Lipoxygenase (2)	zinc ion binding [GO:0000870 molecular function] (2); nucleic acid binding [GO:0000367 molecular function] (2)	Zinc finger, CCHC-type [IPR001878] (2); Zinc finger, C-terminal [IPR010909] (2); Zinc finger, C-terminal [IPR013819] (2); Zinc finger, C-terminal [IPR020833] (2); Zinc finger, C-terminal [IPR001246] (2); Zinc finger, C-terminal [IPR000907] (2)	scaffold_2_mRNA_695.1	C_unshiu_00076_mRNA_42.1	-
GF0020831	1	1	0	Retrotransposon protein, putative, Ty1-copia subclass (2)	molecular function (2); nucleic acid binding [GO:0000367 molecular function] (2)	Zinc finger, CCHC-type [IPR001878] (2); Zinc finger, C-terminal [IPR010909] (2); Zinc finger, C-terminal [IPR013819] (2); Zinc finger, C-terminal [IPR020833] (2); Zinc finger, C-terminal [IPR001246] (2); Zinc finger, C-terminal [IPR000907] (2)	scaffold_2_mRNA_692.1	C_unshiu_00036_mRNA_10.1	-
GF0020829	1	1	0	Hypothetical protein (2)	metabolic process [GO:0000152 biological process] (2); catalytic activity [GO:0003824 molecular function] (2)	AMP-binding, conserved site [IPR0020845] (2); AMP-dependent synthetase ligase [IPR000073] (2)	scaffold_2_mRNA_684.1	C_unshiu_00076_mRNA_37.1	-
GF0020828	1	1	0	Acetyl-coenzyme A synthetase (2)	acetyl-coenzyme A synthetase activity [GO:00001616 biological process] (2); acetyl-coenzyme A synthetase activity, acting on single donors with incorporation of molecular oxygen, not integral to a membrane [GO:0016491 molecular function] (2); acetyl-coenzyme A synthetase activity [GO:0003824 molecular function] (2)	AMP-binding, conserved site [IPR0020845] (2); AMP-dependent synthetase ligase [IPR000073] (2)	scaffold_2_mRNA_682	C_unshiu_00213_mRNA_38.1	-
GF0020827	1	1	0	G-type lectin S-receptor-like serine/threonine-protein kinase RLK1 (2)	protein phosphorylation [GO:0006468 biological process] (2); nucleic acid binding [GO:0000367 molecular function] (2); protein kinase activity [GO:00004672 molecular function] (2); ATP binding [GO:00004672 molecular function] (2); protein kinase activity [GO:00004672 molecular function] (2); protein kinase activity [GO:00004672 molecular function] (2); recognition of pollen [GO:0048544 biological process] (1)	kinase [IPR002417] (2); protein kinase domain [IPR000710] (2); S-type lectin domain [IPR000855] (1); Serine/threonine/dual specificity protein kinase catalytic domain [IPR002290] (1); Concavatina-like lectin/glycanase domain [IPR013320] (1)	scaffold_2_mRNA_678.1	C_unshiu_00076_mRNA_31.1	-
GF0020826	1	1	0	Hypothetical protein (2)	magnesium ion binding [GO:0000287 molecular function] (2); lyse activity [GO:0016829 molecular function] (2)	lipoxygenase domain [IPR008949] (2); Terpene synthase, metal-binding domain [IPR005630] (2); Terpene cyclases/protein prenyltransferase alpha/beta type [IPR008930] (2); Terpene synthase, N-terminal domain [IPR001960] (2)	scaffold_2_mRNA_667.1	C_unshiu_00076_mRNA_20.1	-
GF0020824	1	1	0	Hypothetical protein (2)	biological process (1)	lipoxygenase domain [IPR008949] (2); Terpene synthase, metal-binding domain [IPR005630] (2); Terpene cyclases/protein prenyltransferase alpha/beta type [IPR008930] (2); Terpene synthase, N-terminal domain [IPR001960] (2)	scaffold_2_mRNA_650.1	C_unshiu_00076_mRNA_11.1	-
GF0020823	1	1	0	Hypothetical protein (2)	biological process (1)	Domain of unknown function DUF4283 [IPR025551] (2)	scaffold_2_mRNA_612.1	C_unshiu_00029_mRNA_29.1	-
GF0020822	1	1	0	Hypothetical protein (2)	Endonuclease/exonuclease/phosphatase [IPR005135] (2)	scaffold_2_mRNA_611.1	C_unshiu_00029_mRNA_30.1	-	
GF0020820	1	1	0	Hypothetical protein (2)	ATP binding [GO:0000524 molecular function] (2); formate-tetrahydrofolate ligase activity [GO:0004329 molecular function] (2); folic acid-containing compound biosynthesis process [GO:0009396 biological process] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Formate-tetrahydrofolate ligase, FTHFS [IPR000559] (2)	scaffold_2_mRNA_61.1	C_unshiu_00109_mRNA_60.1	-
GF0020819	1	1	0	Hypothetical protein (2)	ATP binding [GO:0000524 molecular function] (2); formate-tetrahydrofolate ligase activity [GO:0004329 molecular function] (2); folic acid-containing compound biosynthesis process [GO:0009396 biological process] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Formate-tetrahydrofolate ligase, FTHFS [IPR000559] (2)	scaffold_2_mRNA_607.1	C_unshiu_00029_mRNA_36.1	-
GF0020818	1	1	0	10-formyltetrahydrofolate synthetase family protein (2)	ATP binding [GO:0000524 molecular function] (2); formate-tetrahydrofolate ligase activity [GO:0004329 molecular function] (2); folic acid-containing compound biosynthesis process [GO:0009396 biological process] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Formate-tetrahydrofolate ligase, FTHFS [IPR000559] (2)	scaffold_2_mRNA_606.1	C_unshiu_00029_mRNA_37.1	-

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0020816	1	1	0	Cyclin dependent protein kinase homolog (1); Hypothetical protein (1)	ATP binding [GO:0005524 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (2); protein kinase activity [GO:0004672 molecular function] (2)	Protein kinase-like domain [IPR011009] (2); Protein kinase domain [IPR006719] (2); Pentapeptide repeat [IPR02885] (2); Serine/threonine-protein kinase active site [IPR008271] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1) [IPR002290] (1)	scaffold_2_mRNA_576.1	C_unshiu_00029_mRNA_59.1	-
GF0020815	1	1	0	Disease resistance response protein 206 (2)	heme binding [GO:0020037 molecular function] (2); iron ion binding [GO:0005506 molecular function] (2); oxidoreductase activity, acting on paired donors, with hydrogen or oxygen as acceptor [GO:00016705 molecular function] (2); oxidation- reduction process [GO:0055114 biological process] (2)	Plant disease resistance response protein [IPR004265] (2)	scaffold_2_mRNA_571.1	C_unshiu_00754_mRNA_8.1	-
GF0020814	1	1	0	Cytochrome P450 monooxygenase CYP83A1 (2)	-	Cytochrome P450 [IPR001128] (2); Cytochrome P450, E-class, group I [IPR002401] (2)	scaffold_2_mRNA_545.1	C_unshiu_00213_mRNA_7.1	-
GF0020813	1	1	0	Hypothetical protein (2)	-	Serine/threonine-specific protein phosphatase [IPR006186] (2); tetraphosphate [IPR006186] (2); Metallo-dependent phosphatase-like phosphotriesterase domain, Asp/Gly type [IPR029052] (2); Calcineurin-like phosphotriesterase domain, Asp/Gly type [IPR004443] (1); Calcineurin-like phosphotriesterase domain, Asp/Gly type [IPR004443] (1)	scaffold_2_mRNA_544.1	C_unshiu_00213_mRNA_8.1	-
GF0020812	1	1	0	PP2A-1 catalytic subunit (1); Serine/threonine-protein phosphatase PP2A catalytic subunit (1)	hydrolase activity [GO:0016787 molecular function] (2)	Serine/threonine-specific protein phosphatase [IPR006186] (2); tetraphosphate [IPR006186] (2); Metallo-dependent phosphatase-like phosphotriesterase domain, Asp/Gly type [IPR029052] (2); Calcineurin-like phosphotriesterase domain, Asp/Gly type [IPR004443] (1); Calcineurin-like phosphotriesterase domain, Asp/Gly type [IPR004443] (1)	scaffold_2_mRNA_531.1	C_unshiu_00213_mRNA_22.2	-
GF0020811	1	1	0	Vignain (2)	cysteine-type peptidase activity [GO:0000234 molecular function] (2); proteolysis [GO:0006508 biological process] (2)	Cysteine-type peptidase [IPR000668] (2); Cysteine peptidase, aspartagine active site [IPR025661] (2); Cysteine peptidase, histidine active site [IPR025660] (2); Peptidase C1A [IPR013123] (2)	scaffold_2_mRNA_529.1	C_unshiu_00213_mRNA_24.1	-
GF0020810	1	1	0	Hypothetical protein (2)	cysteine-type peptidase activity [GO:0000234 molecular function] (2); phosphotransferase activity, alcohol group as acceptor [GO:0016773 molecular function] (2); proteolysis [GO:0006508 biological process] (2)	Ulp1 protease family, C-terminal catalytic domain [IPR003653]; Carbohydrate/puine kinase, PtB, conserved site [IPR02173] (2); Carbohydrate kinase PtB [IPR011611] (2); Ribokinase-like [IPR023055] (2)	scaffold_2_mRNA_525.1	C_unshiu_00062_mRNA_41.1	-
GF0020808	1	1	0	Hypothetical protein (2)	-	Cathexin propionate inhibitor domain (29) [IPR013201] (2); Peptidase C1A, papain C-terminal [IPR000668] (2); Cysteine peptidase, aspartagine active site [IPR025661] (2); Cysteine peptidase, histidine active site [IPR025660] (2); Peptidase C1A [IPR013123] (2)	scaffold_2_mRNA_519.1	C_unshiu_00062_mRNA_33.1	-
GF0020807	1	1	0	Hypothetical protein (2)	-	Leucine-rich repeat domain, L domain- like [IPR032675] (2)	scaffold_2_mRNA_518.1	C_unshiu_00062_mRNA_32.1	-
GF0020806	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_516.1	C_unshiu_00062_mRNA_30.1	-	
GF0020805	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_515.1	C_unshiu_00062_mRNA_29.1	-	
GF0020804	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_513.1	C_unshiu_00062_mRNA_27.1	-	
GF0020803	1	1	0	Cytokinin riboside 5'-monophosphate phosphorylhydrolase (2)	LOG family [IPR031100] (2); Cytokinin riboside 5'-monophosphate phosphorylhydrolase LOG [IPR005269] (2)	scaffold_2_mRNA_511.1	C_unshiu_00109_mRNA_49.1	-	
GF0020802	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_508.1	C_unshiu_00062_mRNA_22.1	-	
GF0020801	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_507.1	C_unshiu_00062_mRNA_21.1	-	
GF0020800	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_505.1	C_unshiu_00062_mRNA_19.1	-	
GF0020799	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_498.1	C_unshiu_02524_mRNA_1.1	-	
GF0020798	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003477 molecular function] (2); regulation of transcription, DNA-templated [GO:0006355 biological process] (2)	NAC domain [IPR003441] (2)	scaffold_2_mRNA_493.1	C_unshiu_00992_mRNA_3.1	-
GF0020797	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_489.1	C_unshiu_00992_mRNA_7.1	-	
GF0020795	1	1	0	DUF231 domain protein (2)	Domain of unknown function DUF2431 [IPR019446] (2)	scaffold_2_mRNA_4716.1	C_unshiu_00977_mRNA_73.1	-	
GF0020794	1	1	0	Hypothetical protein (2)	sulfotransferase activity [GO:0008146 molecular function] (2)	Sulfotransferase domain [IPR000863] (2); Sulfotransferase domain [IPR000863] (2)	scaffold_2_mRNA_471.1	C_unshiu_00061_mRNA_15.1	-
GF0020793	1	1	0	Pentapeptide (1); Hypothetical protein (1)	Pentapeptide repeat [IPR002885]; protein binding [GO:0005515 molecular function] (2); zinc ion binding [GO:000270 molecular function] (1)	Pentapeptide repeat [IPR002885]; (2); Tetratricopeptide-like helical domain [IPR011919] (2); DYW domain [IPR032667] (1)	scaffold_2_mRNA_4708.1	C_unshiu_00077_mRNA_65.1	-
GF0020792	1	1	0	Pectinesterase inhibitor (2)	Pectinesterase inhibitor domain [IPR004857 molecular function] (2)	scaffold_2_mRNA_4705.1	C_unshiu_00077_mRNA_63.1	-	
GF0020791	1	1	0	SubtRNA-activating protein complex subunit 3 isoform 3 (2)	subtRNA-activating protein complex, subunit 3 [IPR02042] (2)	scaffold_2_mRNA_4701.1	C_unshiu_00077_mRNA_59.1	-	
GF0020790	1	1	0	Metal ion binding protein (2)	metal ion transport [GO:0030001 biological process] (2); metal ion binding [GO:0046872 molecular function] (2)	Heavy metal-associated domain, HMA [IPR006121] (2)	scaffold_2_mRNA_4676.1	C_unshiu_00077_mRNA_34.1	-
GF0020789	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_4673.1	C_unshiu_00077_mRNA_31.1	-	
GF0020788	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_4671.1	C_unshiu_00061_mRNA_11.1	-	
GF0020786	1	1	0	CASP-like protein 2B1 (2)	Domain of unknown function DUF588 [IPR006702] (2); Caspase strip membrane protein [IPR006459] (2)	scaffold_2_mRNA_4658.1	C_unshiu_00077_mRNA_18.1	-	
GF0020785	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_465.1	C_unshiu_00061_mRNA_9.1	-	
GF0020784	1	1	0	Inositol monophosphate (2)	Inositol monophosphate, metal-binding sites [IPR020582] (2); Inositol monophosphate, conserved site [IPR020530] (2); Inositol monophosphate, Lithium-sensitive [IPR020532] (1); Inositol monophosphate-like [IPR000760] (1); Inositol monophosphate [IPR033942] (1); Inositol monophosphate [IPR000760] (1)	F-box domain [IPR001810] (2)	scaffold_2_mRNA_4646.1	C_unshiu_00077_mRNA_6.2	-
GF0020783	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_4638.1	C_unshiu_00337_mRNA_45.1	-	
GF0020782	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_4631.1	C_unshiu_00337_mRNA_40.1	-	
GF0020781	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular function] (2)	F-box domain [IPR001810] (2)	scaffold_2_mRNA_463.1	C_unshiu_00061_mRNA_7.1	-
GF0020780	1	1	0	Serine/threonine-protein kinase HT1 (2)	ATP binding [GO:0005524 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (2); protein kinase activity [GO:004674 molecular function] (1); serine/threonine kinase activity [GO:004674 molecular function] (1)	Protein kinase domain [IPR000719] (2); Protein kinase-like domain [IPR011009] (2); Serine/threonine-protein kinase active site [IPR008271] (2); Serine/ threonine-protein kinase, catalytic domain [IPR001245] (1); Serine/ threonine-protein kinase [IPR001245] (1); Serine/threonine/proline kinase HT1, plant [IPR015783] (1)	scaffold_2_mRNA_4617.1	C_unshiu_00337_mRNA_26.1	-
GF0020778	1	1	0	BAH and coiled-coil domain-containing 1 (2)	chromatin binding [GO:0003682 molecular function] (2); protein binding [GO:0005515 molecular function] (2); zinc ion binding [GO:0008270 molecular function] (2)	Bromodomain adjacent to BH (BAH) domain [IPR011924] (2); Zinc finger, C2V2-PHD-type [IPR001101] (2); Zinc finger, PHD-type [IPR019786] (2); Zinc finger, PHD-finger [IPR019787] (2)	scaffold_2_mRNA_4593.1	C_unshiu_00337_mRNA_3.1	-
GF0020775	1	1	0	Hypothetical protein (2)	Transposase, MudR, plant [IPR004332] (2)	scaffold_2_mRNA_459.1	C_unshiu_00061_mRNA_3.1	-	
GF0020773	1	1	0	Hypothetical protein (2)	Pectin lyase fold/virulence factor [IPR011050] (2); Pectate lyase fold [IPR012334] (2); Pectate lyase/amb allergen [IPR002022] (2); Amb/Allergen [IPR018062] (2)	scaffold_2_mRNA_4579.1	C_unshiu_00048_mRNA_1.1	-	
GF0020772	1	1	0	Pectate lyase (2)	Pectin lyase fold/virulence factor [IPR011050] (2); Pectate lyase fold [IPR012334] (2); Pectate lyase/amb allergen [IPR002022] (2); Amb/Allergen [IPR018062] (2)	scaffold_2_mRNA_4578.1	C_unshiu_00048_mRNA_2.1	-	
GF0020771	1	1	0	Peroxisomal membrane protein PMP22	integral component of membrane [GO:0016021 cellular component] (2)	Mpv17/PMP22 [IPR007248] (2)	scaffold_2_mRNA_4570.1	C_unshiu_00048_mRNA_10.1	-
GF0020770	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_4566.1	C_unshiu_00048_mRNA_14.1	-	
GF0020769	1	1	0	Autophagy-related protein 8C (2)	Ubiquitin-related domain [IPR029071] (2); Autophagy protein Atg8 ubiquitin- like [IPR004241] (2)	scaffold_2_mRNA_4552.2	C_unshiu_00048_mRNA_29.2	-	
GF0020768	1	1	0	Senescence regulator (2)	Senescence regulator S40 [IPR007608] (2)	ATP synthase, F1 complex, gamma subunit [IPR001586 biological process] (2); proton-translocating ATP synthase activity, rotational mechanism [GO:0046933 molecular function] (2); protein translocating ATPase complex, catalytic core F1 [IPR004261 cellular component] (2); proton-translocating ATPase activity, rotational mechanism [GO:0046961 molecular function] (1)	scaffold_2_mRNA_4548.1	C_unshiu_00048_mRNA_33.1	-
GF0020767	1	1	0	ATP synthase F1, gamma subunit (2)	ATP synthase, F1 complex, gamma subunit conserved site [IPR023632] (1); ATPase, F1 complex, gamma subunit domain [IPR023631] (1); ATPase, F1 complex, gamma subunit [IPR000131] (1); ATPase, F1 complex, gamma subunit [IPR000131] (1)	scaffold_2_mRNA_4550.1	C_unshiu_00048_mRNA_31.1	-	

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C.clementine</i>	Members in <i>C.unshiu</i>	Members in <i>P.trifoliata</i>
GF0020765	1	1	0	Protein DETOXIFICATION 36 (1); Protein TRANSPARENT TESTA 12 (1)	transmembrane transport [GO:0055085]; biological_process [2]; drug transmembrane transporter activity [GO:0015238 molecular_function] (2); antiporter activity [GO:0015297 molecular_function] (2); membrane [GO:0005141 cellular_component] (2); drug transmembrane transporter activity [GO:00055144 biological_process] (1); FAD binding [GO:0010166 molecular_function] (1); catalytic activity [GO:0003824 molecular_function] (1)	[IPR0102250] (1); Alpha,beta-hydroxy acid [IPR0121331] (1); FMN-dependent alpha-hydroxy acid dehydrogenase, active site [IPR008259] (1); Aldolase-type TIM barrel [IPR013785] (1); FMN-dependent dehydrogenase [IPR000262] (1)	scaffold_2_mRNA_4538.1	C_unshiu_00048_mRNA_42.1	-
GF0020764	1	1	0	Hypothetical protein (2)	nucleic_acid_binding [GO:0003676 molecular_function] (2); metal_ion_binding [GO:0046872 molecular_function] (1)	Zinc_finger_double-stranded_RNA_binding [IPR022755] (2); Zinc_finger_C2H2-type/integrase_domain [IPR013087] (1); Zinc_finger_C2H2 [IPR007097] (1); Zinc_finger_C2H2-type [IPR013087] (1)	scaffold_2_mRNA_4533.1	C_unshiu_00048_mRNA_49.1	-
GF0020761	1	1	0	Hypothetical protein (2)	nucleic_acid_binding [GO:0003676 molecular_function] (2)	Ribonuclease_H-like_domain [IPR012337] (2)	scaffold_2_mRNA_452.1	C_unshiu_01757_mRNA_6.1	-
GF0020760	1	1	0	Hypothetical protein (2)	Dopamine beta-monoxygenase, putative (1); Eukaryotic cytochrome b561 protein (1)	integral_component_of_membrane [GO:0016021 cellular_component] (1)	scaffold_2_mRNA_4512.1	C_unshiu_00107_mRNA_27.1	-
GF0020759	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Cytochrome_b561_ferric_reductase [IPR006593] (1); Cytochrome_b561_dioxygen [IPR004877] (1)	scaffold_2_mRNA_4505.1	C_unshiu_00048_mRNA_70.1	-
GF0020758	1	1	0	Hypothetical protein (2)	NAD(P)-binding Rossman-fold superfamily protein isoform 2 (1); 3-beta hydroxysteroid dehydrogenase/isomerase (1)	NAD(P)-binding domain [IPR016040]	scaffold_2_mRNA_4499.1	C_unshiu_00048_mRNA_76.1	-
GF0020757	1	1	0	Hypothetical protein (2)	protein_dimerization_activity [GO:0046983 molecular_function] (2); DNA_binding [GO:0003677 molecular_function] (2)	Transcription_factor_MADS-box [IPR002100] (2)	scaffold_2_mRNA_4492.1	C_unshiu_00048_mRNA_81.1	-
GF0020755	1	1	0	Hypothetical protein (2)	hydrolase_activity, hydrolyzing_O-glycosyl_compounds [GO:0004553 molecular_function] (2); carbohydrate_molecular_process [GO:0005975 biological_process] (2)	Glycoside_hydrolase_family_3_C-terminal_domain [IPR002772] (2); Glycoside_hydrolase_family_3_N-terminal_domain [IPR001764] (2); Fibronectin_type_III-like_domain [IPR026891] (2); Glycoside_hydrolase_superfamily [IPR017853] (2); Immunoglobulin-like_fold [IPR013783] (1); Glycoside_hydrolase_family_3 [IPR026992] (1)	scaffold_2_mRNA_4486.1	C_unshiu_00048_mRNA_86.1	-
GF0020752	1	1	0	Glycosyl hydrolase family protein (2)	nucleic_acid_binding [GO:0003676 molecular_function] (2); nucleotide_binding [GO:0000166 molecular_function] (1)	RNA_recognition motif [IPR000564] (2); Me2-Me2-like_RNA_recognition [IPR014531] (1); Me2-Me2-like_RNA_recognition motif_2 [IPR007201] (1); Nucleotide-binding_alpha-beta_plait_domain [IPR012677] (1); Me2-Me2-like_C-terminal_RNA_recognition_motif [IPR007201] (1)	scaffold_2_mRNA_4484.1	C_unshiu_00048_mRNA_88.1	-
GF0020751	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	Glycosyl_transferase_familly_1 [IPR001296] (2)	scaffold_2_mRNA_4482.1	C_unshiu_00048_mRNA_91.1	-
GF0020750	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	scaffold_2_mRNA_448.1	C_unshiu_00244_mRNA_17.1	-	
GF0020749	1	1	0	Hypothetical protein (2)	RNA_recognition_motif [IPR000564] (2); Me2-Me2-like_RNA_recognition [IPR014531] (1); Nucleotide-binding_alpha_beta_plait_domain [IPR012677] (1); Me2-Me2-like_C-terminal_RNA_recognition_motif [IPR007201] (1)	scaffold_2_mRNA_4462.1	C_unshiu_00074_mRNA_33.1	-	
GF0020748	1	1	0	RNA recognition motif 2 in plant MEI2-like protein (2)	integral_component_of_membrane [GO:0016021 cellular_component] (2); protein_transport [GO:0015031 biological_process] (2); protein_retention_in_ER_lumen [GO:0062652 biological_process] (2); integral_component [2]; ER_retention_sequence_binding [GO:0046923 molecular_function] (2); membrane [GO:0016020 cellular_component] (2)	SecY_conserved_site [IPR010659] (2); SecY_Sec61GTP-alpha_beta_M1P208 [IPR002208] (2); Translocin_Sec61-SecY_beta_domain [IPR019561] (2); ER_lumen_protein_retaining_receptor [IPR000133] (2); SecY_subunit_domain [IPR023201] (2)	scaffold_2_mRNA_446.1	C_unshiu_00244_mRNA_21.1	-
GF0020747	1	1	0	Hypothetical protein (2)	Bidirectional_sugar_transporter_SWEET2 [GO:0016021 cellular_component] (2)	SWEET_sugar_transporter [IPR004316]	scaffold_2_mRNA_4450.1	C_unshiu_00002_mRNA_8.1	-
GF0020746	1	1	0	Protein transporter Sec61 subunit alpha isoform 2 (2)	Protein transporter_Sec61_subunit_alpha_isoform_2 (2)	SecY_conserved_site [IPR010659] (2); SecY_Sec61GTP-alpha_beta_M1P208 [IPR002208] (2); Tetraspaninopetide-like_helical_domain [IPR027934] (2); Cellulose_synthase [IPR005150] (2)	scaffold_2_mRNA_4421.1	C_unshiu_00002_mRNA_37.1	-
GF0020745	1	1	0	Ethylene-responsive transcription factor ERF991 (2)	cellular_composition [2]; cellulose_synthase [IPR013083] (2); Cellulose_synthase [IPR027934] (2); Cellulose_synthase [IPR005150] (2)	Tetratricopeptide_repeat [IPR02885] (2); Tetraspaninopetide-like_helical_domain [IPR027934] (2); Cellulose_synthase [IPR005150] (2)	scaffold_2_mRNA_4368.2	C_unshiu_00002_mRNA_88.1	-
GF0020744	1	1	0	Cellulose synthase (2)	cellular_composition [2]; cellulose_synthase [IPR013083] (2); Cellulose_synthase [IPR027934] (2); Cellulose_synthase [IPR005150] (2)	Tetratricopeptide_repeat [IPR02885] (2); Tetraspaninopetide-like_helical_domain [IPR027934] (2); Cellulose_synthase [IPR005150] (2)	scaffold_2_mRNA_4408.1	C_unshiu_00002_mRNA_50.1	-
GF0020741	1	1	0	Tig (2)	protein_binding [GO:0005515 molecular_function] (1)	SecY_conserved_site [IPR010659] (2); SecY_Sec61GTP-alpha_beta_M1P208 [IPR002208] (2); Translocin_Sec61-SecY_beta_domain [IPR019561] (2); ER_lumen_protein_retaining_receptor [IPR000133] (2); SecY_subunit_domain [IPR023201] (2)	scaffold_2_mRNA_4361.1	C_unshiu_00002_mRNA_93.1	-
GF0020738	1	1	0	Hypothetical protein (2)	mitochondrion [GO:0000739 cellular_composition] (2); protein_complex_assembly [GO:0006461 biological_process] (2)	ATP11 [IPR010591] (2)	scaffold_2_mRNA_435.1	C_unshiu_00244_mRNA_34.1	-
GF0020737	1	1	0	Hypothetical protein (2)	ATP synthase_mitochondrial_F1_complex_assembly_factor_1 (2)	ATP11 [IPR010591] (2)	scaffold_2_mRNA_4347.1	C_unshiu_00002_mRNA_107.1	-
GF0020736	1	1	0	Ethylene-responsive transcription factor ERF991 (2)	regulation_of_transcription [GO:0006355 biological_process] (2); transcription templated [GO:0006355 biological_process] (2); transcription_factor [GO:00003700 molecular_function] (2); membrane [GO:0003677 molecular_function] (2)	DNA-binding_domain [IPR016177] (2); AP2_ERF_domain [IPR001471] (2)	scaffold_2_mRNA_4340.1	C_unshiu_00002_mRNA_114.1	-
GF0020735	1	1	0	O-methyltransferase activity	Winged_helix-turn-helix_DNA-binding_domain [IPR011991] (2); O-methyltransferase_familly_2 [IPR001077] (2); C-terminal_alpha_beta_domain [IPR012661] (2); Protein_of_unknown_function_DUF599 [IPR006474] (2); Plant_methyltransferase [IPR012697] (2); S-adenosyl-L-methionine-dependent_methyltransferase [IPR029695] (2)	scaffold_2_mRNA_4323.1	C_unshiu_00002_mRNA_127.1	-	
GF0020734	1	1	0	Eugenol_O-methyltransferase (1); O-methyltransferase_ZRP4 (1)	integral_component_of_membrane [GO:0016021 cellular_component] (2); defense_response [GO:0006952 biological_process] (2)	Mlo-related_protein [IPR004326] (2)	scaffold_2_mRNA_4283.1	C_unshiu_00310_mRNA_30.1	-
GF0020733	1	1	0	MLO protein homolog 1 (2)	defense_response [GO:0006952 biological_process] (2)	Ribosomal_protein_L21 [IPR001787] (2); Ribosomal_protein_L21_conserved_site [IPR018258] (2); Ribosomal_protein_L21-like [IPR028909] (2)	scaffold_2_mRNA_4276.1	C_unshiu_00002_mRNA_174.1	-
GF0020729	1	1	0	Hypothetical protein (2)	structural constituent_of_ribosome [GO:0003735 molecular_function] (2); translation [GO:0006462 biological_process] (2)	Domain_of_unknown_function_DUF3700 [IPR02286] (2); Nucleophosphoaminoacid_N-terminal [IPR029655] (2)	scaffold_2_mRNA_4259.1	C_unshiu_00002_mRNA_192.1	-
GF0020728	1	1	0	SOS ribosomal protein L21, mitochondrial cellular component (2)	translational_governor [GO:0006412 biological_process] (2); ribosome [GO:0005840 cellular_component] (2); RNA_binding [GO:0003723 molecular_function] (2)	Protein_kinase_domain [IPR000719] (2); Protein_kinase_like_domain [IPR011099] (2); Serine/threonine-protein_kinase_active_site [IPR008271] (2); Protein_kinase_Atkin_mutual_6-like_beta_hexoglucanase [IPR013270] (1); Serine/threonine/proline_kinase_catalytic_domain [IPR001245] (1); Serine/threonine/dual_specific_protein_kinase_catalytic_domain [IPR002290] (1); Serine-threonine/tyrosine_protein_kinase_catalytic_domain [IPR001245] (1)	scaffold_2_mRNA_4245.1	C_unshiu_00002_mRNA_206.1	-
GF0020727	1	1	0	Stem-specific protein TSJT1 (2)	hydrolyase_activity_acting_on_esther_bonds [GO:0016788 molecular_function] (2); endonuclease_activity [GO:0004519 molecular_function] (2); nucleic_acid_binding [GO:0005524 molecular_function] (2)	Phospholipase_C_P1_nuclease_domain [IPR008947] (2); S1_P1_nuclease [IPR003154] (2)	scaffold_2_mRNA_4218.1	C_unshiu_00152_mRNA_13.1	-
GF0020725	1	1	0	Serine/threonine-protein kinase receptor (2)	serine_threonine_protein_kinase [GO:0004648 molecular_function] (2); ATP_binding [GO:0005524 molecular_function] (2)	scaffold_2_mRNA_421.1	C_unshiu_00526_mRNA_4.1	-	
GF0020722	1	1	0	Hypothetical protein (2)	hydrolyase_activity_acting_on_esther_bonds [GO:0016788 molecular_function] (2); endonuclease_activity [GO:0004519 molecular_function] (2); nucleic_acid_binding [GO:0005524 molecular_function] (2)	scaffold_2_mRNA_4218.1	C_unshiu_00152_mRNA_13.1	-	
GF0020721	1	1	0	Hypothetical protein (2)	hydrolyase_activity_acting_on_esther_bonds [GO:0016788 molecular_function] (2); endonuclease_activity [GO:0004519 molecular_function] (2); nucleic_acid_binding [GO:0005524 molecular_function] (2)	scaffold_2_mRNA_421.1	C_unshiu_00526_mRNA_4.1	-	
GF0020719	1	1	0	Nuclease S1 (2)	0 Nuclease S1 (2)	scaffold_2_mRNA_4203.1	C_unshiu_00153_mRNA_24.1	-	
GF0020718	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	scaffold_2_mRNA_420.1	C_unshiu_00526_mRNA_2.1	-	
GF0020717	1	1	0	Hypothetical protein (2)	0 Hypothetical protein (2)	scaffold_2_mRNA_419.1	C_unshiu_00526_mRNA_1.1	-	

ID	Num. in <i>C. clementiae</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0020716	1	1	0	F-box protein SKIP27 (2)	protein binding [GO:0005515] molecular_function [2]	F-box domain [IPR001810] (2)	scaffold_2_mRNA_4185.1	C_unshiu_00153_mRNA_41.1	-
GF0020715	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_4178.1	C_unshiu_00153_mRNA_45.1	-
GF0020714	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_416.1	C_unshiu_00692_mRNA_3.1	-
GF0020713	1	1	0	B-box type zinc finger protein (2)	intracellular [GO:0005622] cellular_component [2]; zinc ion binding [GO:0008270 molecular_function] (2)	B-box-type zinc finger [IPR000315] (2)	scaffold_2_mRNA_4157.1	C_unshiu_00070_mRNA_51.2	-
GF0020712	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_412.1	C_unshiu_01377_mRNA_3.1	-
GF0020711	1	1	0	Ubiquitin family protein (1); Polyubiquitin (1)	protein binding [GO:0005515] molecular_function [2]	(2); Ubiquitin [IPR019956] (2); Ubiquitin conserved site [IPR019954] (2); Ubiquitin domain [IPR000626] (2)	scaffold_2_mRNA_4112.1	C_unshiu_00027_mRNA_4.1	-
GF0020710	1	1	0	Thiazole biosynthetic enzyme (2)	thiamine biosynthetic process [GO:0009293 biological_process] (2); oxidation-reduction process [GO:005114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); response to stress [GO:0006950 biological_process] (2)	Thiamine thiazole synthase [IPR027495] (2); Thiazole biosynthetic enzyme ThdI family [IPR029222] (2); FAD/NAD(P)-binding domain [IPR023753] (2)	scaffold_2_mRNA_4109.1	C_unshiu_00027_mRNA_7.1	-
GF0020709	1	1	0	Probable dolichyl-diphosphooligosaccharide-protein glycosyltransferase subunit 3B (1); Probable dolichyl-diphosphooligosaccharide-protein glycosyltransferase subunit 3A (1)	-	Oligosaccharyl transferase complex, subunit OST3/OST6 [IPR021149] (2)	scaffold_2_mRNA_4107.1	C_unshiu_00027_mRNA_9.1	-
GF0020708	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPR012327] (1); Domain of unknown function DUF1084 [IPR009457] (2)	scaffold_2_mRNA_410.1	C_unshiu_01377_mRNA_2.1	-
GF0020706	1	1	0	Tobamovirus multiplication (1)	-	-	scaffold_2_mRNA_4088.1	C_unshiu_00027_mRNA_30.1	-
GF0020702	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_406.1	C_unshiu_01190_mRNA_2.1	-
GF0020701	1	1	0	CBL-interacting serine/threonine-protein kinase 9 (2)	signal transduction [GO:0007165 biological_process] (2); ATP-binding [GO:0005524 molecular_function] (2); protein phosphorylation [GO:0006648 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2)	Protein kinase domain [IPR000719] (2); NAF domain [IPR004041] (2); NAF/FSL domain [IPR018451] (2); NAF domain [IPR018451]-like [IPR0101009] (2); Protein kinase, ATP binding site [IPR017441] (2); Serine/threonine/protein kinase, active site [IPR008271] (2); KAT1 domain/Ssp2, C-terminal specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_2_mRNA_4053.3	C_unshiu_00027_mRNA_66.3	-
GF0020699	1	1	0	Hypothetical protein (2)	-	Serine-rich repeat domain, L-domain-like [IPR032675] (1)	scaffold_2_mRNA_4018.1	C_unshiu_00091_mRNA_52.1	-
GF0020696	1	1	0	Hypothetical protein (2)	-	Serine-rich repeat domain, L-domain-like [IPR032675] (1)	scaffold_2_mRNA_400.1	C_unshiu_00246_mRNA_2.1	-
GF0020695	1	1	0	Putative oxidoreductase GLYR1 (2)	3-hydroxyisobutyrate dehydrogenase activity [GO:0008442 molecular_function] (2); NADH oxidoreductase activity [GO:00066491 molecular_function] (2); NADH oxidoreductase activity [GO:00056606 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); phosphoglycomate dehydrogenase (decarboxylating) activity [GO:0004616 molecular_function] (2)	3-hydroxyisobutyrate dehydrogenase-related, conserved site [IPR002204] (2); 3-hydroxyisobutyrate dehydrogenase [IPR002204] (2); NADP-binding [IPR003601] (2)	scaffold_2_mRNA_3993.1	C_unshiu_00091_mRNA_25.1	-
GF0020694	1	1	0	Hypothetical protein (2)	oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity [GO:00066491 molecular_function] (2); NADH oxidoreductase activity [GO:00056606 molecular_function] (2); dienoate-binding [GO:00056606 molecular_function] (2); catalytic activity [GO:0003824 molecular_function] (2); oxidation-reductase activity, acting on CH-OH group or donor [GO:001614 molecular_function] (2)	FAD-binding, type 2, subdomain 1 [IPR016167] (2); C-terminal hydrolase [IPR006041] (2); FAD-binding subdomain 2 [IPR016169] (2); FAD-linked oxidase, N-terminal [IPR006094] (2); FAD-binding, type 2 [IPR016166] (2); Berberine-berberine-like [IPR012951] (2)	scaffold_2_mRNA_3985.1	C_unshiu_00091_mRNA_17.1	-
GF0020693	1	1	0	FAD-binding Berberine family protein (2)	ATP binding [GO:0005524 molecular_function] (2); DNA helicase activity [GO:0003678 molecular_function] (2); DNA replication molecular_function] (2); nucleic acid binding [IPR002620 biological_process] (2); 5'-3' DNA helicase activity [GO:0043139 molecular_function] (1); single-stranded DNA binding [GO:0030369] molecular_function] (1)	DNA helicase, Dual-like, C-terminal ATP-binding domain [IPR007064] (2); P-loop-containing nucleoside triphosphate hydrolase [IPR027171] (2); Toprim domain [IPR006171] (1); Archaeal primase DnaG/twinkle, TOPRIM domain [IPR034154] (1); TOPRIM domain [IPR006171] (1); Twinkle-like protein [IPR012321] (1)	scaffold_2_mRNA_3968.1	C_unshiu_00143_mRNA_8.1	-
GF0020692	1	1	0	Toprim domain-containing protein isoform 1 (1); Toprim domain-containing protein (1)	ATP binding [GO:0005524 molecular_function] (2); protein kinase activity [GO:0004672 molecular_function] (2); protein kinase, ATP-binding site [IPR002620 biological_process] (2); 5'-3' DNA helicase activity [GO:0043139 molecular_function] (1); single-stranded DNA binding [GO:0030369] molecular_function] (1)	Leucine-rich repeat [IPR000611] (2); Protein kinase-like domain [IPR0101009] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Protein kinase domain [IPR000719] (2); Serine/threonine-protein kinase, catalytic domain [IPR001245] (1); Serine/threonine-lysine-protein kinase, catalytic domain [IPR001245] (1); Concansaccharan A-like lectin/glucanase domain [IPR013320] (1)	scaffold_2_mRNA_3961.1	C_unshiu_00143_mRNA_12.1	-
GF0020691	1	1	0	Receptor-like serine/threonine-protein kinase ALE2 (2)	ATP binding [GO:0005524 molecular_function] (2); protein kinase activity [GO:0004672 molecular_function] (2); protein kinase, ATP-binding site [IPR002620 biological_process] (2); 5'-3' DNA helicase activity [GO:0043139 molecular_function] (1); single-stranded DNA binding [GO:0030369] molecular_function] (1)	Leucine-rich repeat [IPR000611] (2); Protein kinase-like domain [IPR0101009] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Protein kinase domain [IPR000719] (2); Serine/threonine-protein kinase, catalytic domain [IPR001245] (1); Serine/threonine-lysine-protein kinase, catalytic domain [IPR001245] (1); Concansaccharan A-like lectin/glucanase domain [IPR013320] (1)	scaffold_2_mRNA_3959.1	C_unshiu_00143_mRNA_14.1	-
GF0020688	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_395.1	C_unshiu_00246_mRNA_6.1	-
GF0020687	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_3942.1	C_unshiu_00143_mRNA_27.1	-
GF0020686	1	1	0	Charged multivesicular body protein 2a (1); Charged multivesicular body protein 2b; putative (1)	vacuolar transport [GO:0007034 biological_process] (2)	Snf7 family [IPR005024] (2); Zinc finger, LSD1-type [IPR005735] (1)	scaffold_2_mRNA_3941.1	C_unshiu_00143_mRNA_28.1	-
GF0020685	1	1	0	Hypothetical protein (1); Putative retroelement pdl polypeptide (1)	ATP binding [GO:0005524 molecular_function] (2); protein kinase activity [GO:0004672 molecular_function] (2); protein kinase, ATP-binding site [IPR002620 biological_process] (2)	scaffold_2_mRNA_3919.1	C_unshiu_00143_mRNA_49.1	-	
GF0020684	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_3911.1	C_unshiu_00125_mRNA_60.1	-
GF0020683	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_3903.1	C_unshiu_00125_mRNA_50.1	-
GF0020682	1	1	0	Hypothetical protein (1); Monosaccharide transport protein (1)	-	-	scaffold_2_mRNA_3882.1	C_unshiu_00125_mRNA_29.1	-
GF0020681	1	1	0	TMV resistance protein N (1); Putative TIR-NBS type R protein 4 (1)	protein binding [GO:0005515 molecular_function] (1); catalytic activity [GO:0003824 molecular_function] (1); carbohydrate binding [GO:003246 molecular_function] (1); catalytic activity [GO:0003824 molecular_function] (1); carboxylic acid binding [GO:000575 biological_process] (1)	Toll/interleukin-1 receptor homology (TIR) domain [IPR000157] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (2); Leucine-rich repeat domain [IPR032675] (2); P-loop-containing nucleoside triphosphate hydrolase [IPR077417] (2); NB-ARC hydrolase [IPR002182] (2)	scaffold_2_mRNA_3868.1	C_unshiu_02276_mRNA_3.1	-
GF0020680	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (1); catalytic activity [GO:0003824 molecular_function] (1); carbohydrate binding [GO:003246 molecular_function] (1); catalytic activity [GO:0003824 molecular_function] (1); carboxylic acid binding [GO:000575 biological_process] (1)	Galactose-mutarotase-like domain [IPR011013] (1); Galactose mutarotase, N-terminal barrel [IPR031727] (1)	scaffold_2_mRNA_3867.1	C_unshiu_02276_mRNA_4.1	-
GF0020679	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (1); catalytic activity [GO:0003824 molecular_function] (1); carbohydrate binding [GO:003246 molecular_function] (1); protein dimerization activity [GO:004983 molecular_function] (2); DNA binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_2_mRNA_3865.1	C_unshiu_02276_mRNA_5.1	-
GF0020678	1	1	0	Hypothetical protein (2)	Transcription factor, MAD3-box [IPR002100] (2)	scaffold_2_mRNA_3859.1	C_unshiu_00185_mRNA_13.1	-	
GF0020677	1	1	0	Hypothetical protein (2)	Leucine-rich repeat domain, L-domain-like [IPR032675] (1); Domain of unknown function DUF239 [IPR004314] (1); Nepsin [IPR004314] scaffold_2_mRNA_3857.1	C_unshiu_00185_mRNA_14.1	-		
GF0020676	1	1	0	Hypothetical protein (2)	Nepsin protein GS1 [IPR004977] (2)	scaffold_2_mRNA_3853.1	C_unshiu_00185_mRNA_18.1	-	
GF0020675	1	1	0	Hypothetical protein (2)	HT1-like domain [IPR011416] (2); Histidine triad, conserved site [IPR019908] (2)	scaffold_2_mRNA_3851	C_unshiu_00246_mRNA_16.1	-	
GF0020674	1	1	0	14 kDa zinc-binding protein (2)	Histidine triad, HT1 protein, conserved site [IPR011416] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat, typical subtype [IPR000591] (2); Serine/threonine-rich repeat, typical subtype [IPR000591] (2)	scaffold_2_mRNA_3843.1	C_unshiu_00185_mRNA_29.1	-	
GF0020673	1	1	0	Verticillium wilt resistance-like protein (2)	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat, typical subtype [IPR000591] (2); Serine/threonine-rich repeat, typical subtype [IPR000591] (2); Leucine-rich repeat, typical subtype [IPR001611] (2)	scaffold_2_mRNA_3841.1	C_unshiu_00185_mRNA_31.1	-	
GF0020672	1	1	0	Receptor like protein 33 (2)	protein binding [GO:0005515 molecular_function] (2)	scaffold_2_mRNA_3836.1	C_unshiu_00185_mRNA_35.1	-	
GF0020671	1	1	0	Hypothetical protein (2)	RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2); Ribonuclease H domain scaffold_2_mRNA_3834.1	C_unshiu_02643_mRNA_3.1	-	
GF0020670	1	1	0	Monosaccharide transport protein (2)	-	scaffold_2_mRNA_3832.1	C_unshiu_00185_mRNA_39.1	-	
GF0020668	1	1	0	Phospholipase, patatin family (2)	Acyl transferase/acyl hydrolase/lipoprophospholipase [IPR016035] (2); Patatin-like phospholipase domain [IPR026411] (1); Patatin/Phospholipase A2-related [IPR026411] (1)	scaffold_2_mRNA_3826.1	C_unshiu_00185_mRNA_45.1	-	
GF0020667	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_3824.1	C_unshiu_00185_mRNA_46.1	-	
GF0020666	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_3823.1	C_unshiu_00185_mRNA_47.1	-	
GF0020665	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_3822.1	C_unshiu_00185_mRNA_48.1	-	

ID	Num. in <i>C. clementiae</i>	Num. in <i>C. umshiu</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliata</i>
GF0020664	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2)	Ankyrin repeat [IPR002110] (2); PGG domain [IPR026961] (2); Ankyrin repeat-containing domain [IPR020681] (2)	scaffold_2_mRNA_3821.1	C_umshiu_00185_mRNA_49.1	-
GF0020663	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_3819.1	C_umshiu_00185_mRNA_51.1	-
GF0020662	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_3813.1	C_umshiu_00073_mRNA_65.1	-
GF0020660	1	1	0	Urease accessory protein D (2)	nickel cation binding [GO:0016151 molecular_function] (2); nitrogen compound metabolism process [GO:0006807 biological_process] (2); structural constituent of ribosome [GO:0003735 molecular_function] (2); intracellular [GO:0005626 cellular_compartment] (2); translation [GO:0006413 biological_process] (2); ribosome [GO:005840 cellular_component] (2)	Urease accessory protein UreD [IPR02669] (2)	scaffold_2_mRNA_3805.1	C_umshiu_00073_mRNA_57.1	-
GF0020659	1	1	0	Putative 54S ribosomal protein L12, mitochondrial-like (2)	nucleotidyltransferase activity [GO:0016779 molecular_function] (2); RNA 3'-end processing [GO:0031123 biological_process] (2); nucleus [GO:0005464 cellular_compartment] (2); RNA binding [GO:0003723 molecular_function] (2); polynucleotide adenylyltransferase activity [GO:000465 molecular_function] (2); RNA polymerase [GO:0043631 biological_process] (2)	Ribosomal protein L7/L12 [IPR002026] (2); Ribosomal protein L7/L12, C-terminal adaptor protein CtsP-like [IPR014719] (2); Ribosomal protein L7/L12, C-terminal [IPR013823] (2)	scaffold_2_mRNA_3804.1	C_umshiu_00073_mRNA_56.1	-
GF0020658	1	1	0	Poly(A) polymerase 1 isoform 1 (2)	Poly(A) polymerase, RNA-binding domain [IPR007010] (2); Polymerase, nucleotidyl transferase domain [IPR020234] (2); Poly(A) polymerase, central domain [IPR007012] (2); Poly(A) polymerase [IPR014492] (2); Nucleotidyltransferase, class I, C-terminal-like [IPR011068] (2)	[IPR020234] (2); Poly(A) polymerase, central domain [IPR007012] (2); Poly(A) polymerase [IPR014492] (2); Nucleotidyltransferase, class I, C-terminal-like [IPR011068] (2)	scaffold_2_mRNA_3801.1	C_umshiu_00073_mRNA_53.1	-
GF0020657	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPR012337] (1) Lateral organ boundaries, LOB [IPR004883] (2)	scaffold_2_mRNA_3762.1	C_umshiu_00073_mRNA_13.1	-
GF0020656	1	1	0	LOB domain-containing protein 6 (2)	-	-	scaffold_2_mRNA_3731.1	C_umshiu_00035_mRNA_11.1	-
GF0020655	1	1	0	Hypothetical protein (2)	catalytic activity [GO:0003824 molecular_function] (2); carbohydrate metabolic process [GO:000975 biological_process] (2); hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular_function] (2)	Glycoside hydrolase superfamily [IPR017853] (2); Aldolase-type TIM barrel [IPR013785] (2); Glycoside hydrolase, family 27 [IPR002241] (2); Glycoside hydrolase family 27/26, conserved site [IPR001111] (1)	scaffold_2_mRNA_373.1	C_umshiu_00246_mRNA_28.1	-
GF0020654	1	1	0	Hypothetical protein (2)	WD40-repeat-containing domain [IPR017986] (2); WD40 repeat [IPR017986] (2); WD40 repeat [IPR019775] (2)	WD40-repeat-containing domain [IPR017986] (2); WD40 repeat [IPR017986] (2); WD40 repeat [IPR019775] (2)	scaffold_2_mRNA_3721.1	C_umshiu_00022_mRNA_80.1	-
GF0020653	1	1	0	WD repeat-containing protein 26 (2)	protein binding [GO:0005515 molecular_function] (2)	Zinc finger, CCCH-type [IPR001878] [IPR012337] (1)	scaffold_2_mRNA_3720.2	C_umshiu_00022_mRNA_79.1	-
GF0020652	1	1	0	Retrotransposon protein, putative, Ty1 copia subclass (2)	zinc ion binding [GO:0008270 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Zinc finger, CCCH-type [IPR001878] [IPR012337] (1)	scaffold_2_mRNA_372.1	C_umshiu_00246_mRNA_29.1	-
GF0020651	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_3702.1	C_umshiu_00022_mRNA_61.1	-
GF0020650	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_3690.1	C_umshiu_00022_mRNA_49.1	-
GF0020649	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_369.1	C_umshiu_00834_mRNA_6.1	-
GF0020648	1	1	0	Kinase superfamily protein (2)	polysaccharide binding [GO:0030247 molecular_function] (2)	Gag-polypeptide of LTR copia-type [IPR029472] (1) Wall-associated receptor kinase, galacturonan-binding domain [IPR025287] (2); Wall-associated receptor kinase, C-terminal [IPR032872] (2)	scaffold_2_mRNA_3668.1	C_umshiu_00022_mRNA_27.1	-
GF0020647	1	1	0	Probable protein phosphatase 2C 15 (2)	catalytic activity [GO:0003824 molecular_function] (2); protein dephosphorylation [GO:0006470 biological_process] (2); protein serine/threonine phosphatase activity [GO:0007223 molecular_function] (2)	Protein phosphatase 2C family [IPR015655] (2); PPMP-type phosphatase domain [IPR001932] (2)	scaffold_2_mRNA_3664.1	C_umshiu_00022_mRNA_21.1	-
GF0020645	1	1	0	Auxin-responsive protein IAA12 (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); protein binding [GO:0005515 molecular_function] (2); nucleus [GO:0005634 cellular_component] (2)	AUX/IAA protein [IPR003311] (2); PB1 domain [IPR000270] (2); AUX/IAA domain [IPR033389] (1)	scaffold_2_mRNA_3648.1	C_umshiu_00022_mRNA_4.1	-
GF0020639	1	1	0	RNA U-box superfamily protein, putative isoform 4 (1); Hypothetical protein (1)	polysaccharide binding [GO:0030247 molecular_function] (1)	Wall-associated receptor kinase, galacturonan-binding domain [IPR025287] (1)	scaffold_2_mRNA_3631.1	C_umshiu_00965_mRNA_8.1	-
GF0020638	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_362.1	C_umshiu_00672_mRNA_7.1	-
GF0020636	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_361.1	C_umshiu_00672_mRNA_6.1	-
GF0020634	1	1	0	E3 ubiquitin-protein ligase RHA2A (2)	zinc ion binding [GO:0008270 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2)	Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Zinc finger, RING-type [IPR025287] (2)	scaffold_2_mRNA_3586.1	C_umshiu_00064_mRNA_58.1	-
GF0020633	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524 molecular_function] (2); protein kinase activity [GO:0006472 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2)	Protein kinase ATP binding site [IPR017441] (2); Protein kinase domain [IPR002537] (1); Protein kinase-like domain [IPR000719] (2); Protein kinase-like domain [IPR011009] (2)	scaffold_2_mRNA_3582.1	C_umshiu_00064_mRNA_54.1	-
GF0020632	1	1	0	Farnesylated protein 2 (2)	metal ion binding [GO:00046872 molecular_function] (2); metal ion transport [GO:0030004 biological_process] (2)	Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_2_mRNA_3551.1	C_umshiu_00064_mRNA_19.1	-
GF0020631	1	1	0	Bilirubin oxidase (2)	oxidation-reduction process [GO:0015114 biological_process] (2); bilirubin oxidase activity [GO:0016491 molecular_function] (2); copper ion binding [GO:0005507 molecular_function] (2); DNA binding [GO:0005677 molecular_function] (2)	Heavy metal-associated domain, HMA [IPR006121] (2)	scaffold_2_mRNA_3548.1	C_umshiu_00064_mRNA_16.1	-
GF0020630	1	1	0	Hypothetical protein (2)	transporter activity [GO:000215 molecular_function] (2); transmembrane transport [GO:0050585 biological_process] (2); integral component of membrane [GO:0016021 cellular_component] (2); substrate-specific transmembrane transporter activity [GO:002289] (2); membrane molecular_function] (2); membrane transmembrane transporter activity [GO:0016020 cellular_component] (2); transmembrane transporter activity [GO:0022857 molecular_function] (2)	SANTAKA-domain [IPR001005] (2); Multicopper oxidase type 3 [IPR011707] [IPR00117] (2); Myb-like domain [IPR017877] (2); Multicopper oxidase, type 2 [IPR011106] (2); Cupredoxin [IPR008972] (2); Hemocyanin-like domain [IPR009657] (1); Hemocyanin-domain-like [IPR009657] (1)	scaffold_2_mRNA_3545.1	C_umshiu_00064_mRNA_13.1	-
GF0020628	1	1	0	Cytokinin ribose 5'-monophosphate	oxidoreductase activity, acting on paired donors, with or without reduction of molecular oxygen [GO:0016705 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); heme binding [GO:000506 molecular_function] (2); molecular_function] (2)	Myb-like domain [IPR017877] (2); Homedomain-like [IPR009057] (1)	scaffold_2_mRNA_353.1	C_umshiu_00111_mRNA_43.1	-
GF0020626	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_352.1	C_umshiu_00111_mRNA_41.1	-
GF0020625	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_351.1	C_umshiu_00017_mRNA_98.1	-
GF0020624	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_3512.1	C_umshiu_00017_mRNA_97.1	-
GF0020623	1	1	0	Protein BCCP homolog (2)	BCPI family [IPR025602] (2)	scaffold_2_mRNA_3503.1	C_umshiu_00017_mRNA_88.1	-	
GF0020622	1	1	0	Hypothetical protein (2)	oxidoreductase activity, acting on paired donors, with or without reduction of molecular oxygen [GO:0016705 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); iron ion binding [GO:000506 molecular_function] (2); molecular_function] (2)	Myc-like domain [IPR019559] (2); Winged helix-turn-helix scaffold_2_mRNA_3459.1 domain [IPR011991] (2)	scaffold_2_mRNA_345.1	C_umshiu_00017_mRNA_75.1	-
GF0020621	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (1)	Myb-like domain [IPR017877] (2); Homedomain-like [IPR009057] (1)	scaffold_2_mRNA_3483.1	C_umshiu_00017_mRNA_70.1	-
GF0020620	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_3480.1	C_umshiu_00017_mRNA_68.1	-
GF0020619	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_348.1	C_umshiu_01893_mRNA_14.1	-
GF0020618	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_346.1	C_umshiu_01893_mRNA_12.1	-
GF0020617	1	1	0	Hypothetical protein (2)	Cullin protein, neddylation domain [IPR019559] (2); Winged helix-turn-helix scaffold_2_mRNA_3459.1 domain [IPR011991] (2)	Cullin protein, neddylation domain [IPR019559] (2); Winged helix-turn-helix scaffold_2_mRNA_3459.1 DNA-binding domain [IPR011991] (2)	C_umshiu_00017_mRNA_47.1	-	-
GF0020616	1	1	0	Protein FAR1-RELATED SEQUENCE 9	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); zinc ion binding [GO:0005515 molecular_function] (1)	MULE transposase domain [IPR018289] (2); Zinc-finger/FAR1 family [IPR031052]	scaffold_2_mRNA_3457.1	C_umshiu_01323_mRNA_1.1	-
GF0020615	1	1	0	1-aminoacylcyclopropane-1-carboxylic acid oxidase homolog 1 (2); 1-aminoacylcyclopropane-1-carboxylic acid oxidase homolog 12 (1)	oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (2)	(2); Zinc-finger PMZ-type [IPR006564] (1); Zinc-finger, SWIM-type [IPR027343] (2); Non-heme dioxygenase N-terminal domain [IPR026992] (2); Oxoglutarate/iron-dependent dioxygenase [IPR005123] (2)	scaffold_2_mRNA_3454.1	C_umshiu_00017_mRNA_46.1	-
GF0020614	1	1	0	Hypothetical protein (2)	-	-	scaffold_2_mRNA_344.1	C_umshiu_01893_mRNA_10.1	-

ID	Num in <i>C. clementinae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0020610	1	1	0 Hypothetical protein (2)		aspartic-type endopeptidase activity [GO:0004190 molecular function] (1); zinc ion binding [GO:0008270 molecular function] (1); proteolysis [GO:0006508 biological process] (1); nucleic acid binding [GO:0003676 molecular function] (1)	Peptidase A2A, retrovirus, catalytic [IPR019951 (1); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_2_mRNA_342.1	C_unshiu_01893_mRNA_7.1	-
GF0020609	1	1	0 Hypothetical protein (2)						
GF0020608	1	1	0 Hypothetical protein (2)						
GF0020607	1	1	0 Monosaccharide transport protein (1); Hypothetical protein (1)						
GF0020605	1	1	0 Hypothetical protein (2)						
GF0020604	1	1	0 Hypothetical protein (1); RING-H2 finger protein AT29 (1)		protein binding [GO:0005515 molecular function] (2); zinc ion binding [GO:0008270 molecular function] (2); aspartic-type endopeptidase activity [GO:0004190 molecular function] (1); proteolysis [GO:0006508 biological process] (1)	Zinc finger, RING-type [IPR001841] (2); Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Peptidase A2A, retrovirus, catalytic [IPR001995] (1)	scaffold_2_mRNA_338.1	C_unshiu_01305_mRNA_1.1	-
GF0020603	1	1	0 Cyclin J18 (2)						
GF0020602	1	1	0 Hypothetical protein (2)						
GF0020601	1	1	0 Hypothetical protein (2)						
GF0020600	1	1	0 Mavicyanin (2)		electron carrier activity [GO:00009055 molecular function] (2)				
GF0020599	1	1	0 Hypothetical protein (2)		nucleic acid binding [GO:0003676 molecular function] (2); RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular function] (2)				
GF0020598	1	1	0 related Pol polyprotein from transposon 412 (1)						
GF0020597	1	1	0 Hypothetical protein (2)						
GF0020596	1	1	0 Protein NRT1/ PTR FAMILY 8.3 (2)		oligopeptide transport [GO:0006857 biological process] (2); transporter activity [GO:0005215 molecular function] (2); transport [GO:0006810 biological process] (2); membrane [GO:00016020 cellular component] (2)	PTR2 family proton/oligopeptide symporter, conserved site [IPR018456] (2); Protein-dependent oligopeptide transporter [IPR00109] (2); Major facilitator superfamily domain [IPR028771] (2)	scaffold_2_mRNA_3345.1	C_unshiu_00262_mRNA_1.1	-
GF0020595	1	1	0 Hypothetical protein (2)		integral component of membrane [GO:0016021 cellular component] (2); regulation of transcription, DNA-templated [GO:0006355 biological process] (2); nucleus [GO:0005634 cellular component] (2)	Ribonuclease H domain [IPR002156] (2); Ribonuclease H-like domain [IPR012337] (2)			
GF0020594	1	1	0 Nucleus, subunit A, putative isoform 2 (1); Hypothetical protein (1)						
GF0020591	1	1	0 Transcription factor IBH1 (2)		protein dimerization activity [GO:0006857 biological process] (1); DNA binding [GO:003677 molecular function] (2); nucleus [GO:0005634 cellular component] (2)	Myc-type, basic-leucine-zipper-helix (bHLH) domain [IPR011598] (1)	scaffold_2_mRNA_3297.1	C_unshiu_00259_mRNA_3.1	-
GF0020590	1	1	0 Hypothetical protein (2)						
GF0020589	1	1	0 Hypothetical protein (1); Cysteine-rich RLK (RECEPTOR-like protein kinase) 8 (1)						
GF0020588	1	1	0 CXE carboxylesterase (2)		hydrolase activity [GO:0001678 molecular function] (2); metabolic process [GO:0008152 biological process] (2)	Alpha-beta hydrolase fold-3 [IPR013094] (2); Alpha-beta hydrolase fold [IPR029058] (2)	scaffold_2_mRNA_3290.1	C_unshiu_00864_mRNA_21.1	-
GF0020587	1	1	0 Hypothetical protein (2)						
GF0020585	1	1	0 Ferredoxin (2)		electron carrier activity [GO:00009055 molecular function] (2); iron-sulfur cluster binding [GO:0051536 molecular function] (2)	Protein of unknown function DUF338 [IPR007493] (2)	scaffold_2_mRNA_3283.1	C_unshiu_01310_mRNA_2.1	-
GF0020584	1	1	0 Maternal effect embryo arrest protein (2)						
GF0020583	1	1	0 Hypothetical protein (2)						
GF0020582	1	1	0 Hypothetical protein (2)		regulation of transcription, DNA-templated [GO:0006355 biological process] (1)	FHY3/FAR1 family [IPR031052] (1)	scaffold_2_mRNA_3258.1	C_unshiu_00141_mRNA_43.1	-
GF0020581	1	1	0 Hypothetical protein (1); Zinc ion binding,nucleic acid binding-like protein (1)		zinc ion binding [GO:0008270 molecular function] (2); nucleic acid binding [GO:0003676 molecular function] (2)	Domain of unknown function DUF4283 [IPR025558] (2); Zinc knuckle CX2CX4HX4C [IPR023836] (2); Zinc finger, CCHC-type [IPR001878] (2)	scaffold_2_mRNA_3250.1	C_unshiu_00141_mRNA_38.1	-
GF0020580	1	1	0 Hypothetical protein (2)						
GF0020579	1	1	0 Hypothetical protein (2)						
GF0020578	1	1	0 CDNA clone:J013024E12, full insert sequence (1); Glutamate receptor 2.1 (1)		membrane [GO:0016020 cellular component] (1); ionotropic glutamate receptor activity [GO:0004970 molecular function] (1)	Gnk2-homologous domain [IPR002902] (2)	scaffold_2_mRNA_3249.1	C_unshiu_00141_mRNA_37.1	-
GF0020577	1	1	0 Ubiquitin-like-conjugating enzyme ATG10 (2)						
GF0020576	1	1	0 UDP-glycosyltransferase 74E2 (2)		transferase activity, transferring hexosyl groups [GO:00016758 molecular function] (2); metabolic process [GO:0008152 biological process] (2)	Plr1 UDP-glucosidase [IPR002213] (2)	scaffold_2_mRNA_3229.1	C_unshiu_00141_mRNA_15.1	-
GF0020575	1	1	0 Ribonuclease H (2)		nucleic acid binding [GO:0003676 molecular function] (2); RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2); Ribonuclease H domain [IPR002156] (2); TB2/DP1/HV2-related protein [IPR00445] (1)	scaffold_2_mRNA_3225.1	C_unshiu_00389_mRNA_15.1	-
GF0020574	1	1	0 Hypothetical protein (2)		zinc ion binding [GO:0008270 molecular function] (2); nucleic acid binding [GO:0003676 molecular function] (2)	Domain of unknown function DUF4283 [IPR025558] (2); Zinc knuckle CX2CX4HX4C [IPR023836] (2); Zinc finger, CCHC-type [IPR001878] (2)	scaffold_2_mRNA_3223.1	C_unshiu_00141_mRNA_9.1	-
GF0020573	1	1	0 UDP-glycosyltransferase 74F2 (2)		transferease activity, transferring hexosyl groups [GO:0016758 molecular function] (2); metabolic process [GO:0008152 biological process] (2)	2Fe-2S ferredoxin-type iron-sulfur binding domain [IPR001041] (2); Beta-grasp domain [IPR012675] (2)	scaffold_2_mRNA_3222.1	C_unshiu_00141_mRNA_8.1	-
GF0020572	1	1	0 UDP-glycosyltransferase 74E2 (2)		metabolic process [GO:0008152 biological process] (2); transferase activity, transferring hexosyl groups [GO:0016758 molecular function] (2)	UDP-glucosidase [IPR002213] (2)	scaffold_2_mRNA_3219.1	C_unshiu_00141_mRNA_6.1	-
GF0020569	1	1	0 Hypothetical protein (2)						
GF0020567	1	1	0 Hypothetical protein (2)						
GF0020566	1	1	0 Pre-mRNA-splicing factor ATP-dependent RNA helicase (2)		helicase activity [GO:0004386 molecular function] (2)	Loop containing nucleoside triphosphate hydrolase [IPR027417] (2); ATP-binding domain [IPR014001] (2); Helicase-associated domain [IPR0007502] (2); Helicase, C-terminal [IPR001650] (2)	scaffold_2_mRNA_3160.1	C_unshiu_01154_mRNA_10.1	-
GF0020565	1	1	0 Hypothetical protein (2)						
GF0020564	1	1	0 Hypothetical protein (2)						
GF0020563	1	1	0 Hypothetical protein (2)		nuclear-transcribed mRNA catabolic process, nonsense-mediated decay [GO:0000184 biological process] (1); helicase activity [GO:0004386 molecular function] (1); metal ion binding [GO:0006872 molecular function] (1)	RNA helicase UPF1, UPF2-interacting domain [IPR018990] (1); Zinc finger, CCHC-type [IPR005571] (1)	scaffold_2_mRNA_3156.1	C_unshiu_00472_mRNA_3.1	-
GF0020562	1	1	0 Essential protein Yael, putative isoform 3 (2)						
GF0020560	1	1	0 Hypothetical protein (2)						
GF0020558	1	1	0 Hypothetical protein (2)		nucleic acid binding [GO:0003676 molecular function] (2); RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular function] (2)	Ribonuclease H domain [IPR002156] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_2_mRNA_3141.1	C_unshiu_00136_mRNA_52.1	-
GF0020557	1	1	0 Hypothetical protein (2)		same-type endopeptidase activity [GO:0004252 molecular function] (2); proteolysis [GO:0006508 biological process] (2)	Peptidase S8/S53 domain [IPR000209] (2); Peptidase S8, subtilisin-related [IPR015500] (1)	scaffold_2_mRNA_3140.1	C_unshiu_00136_mRNA_51.1	-
GF0020556	1	1	0 Hypothetical protein (2)						
GF0020555	1	1	0 Hypothetical protein (2)						
GF0020554	1	1	0 Hypothetical protein (2)						
GF0020553	1	1	0 Hypothetical protein (2)						
GF0020552	1	1	0 Hypothetical protein (2)						
GF0020551	1	1	0 Period circadian protein, putative isoform 1 (2)						

ID	Num. in <i>C. clementine</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Name	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0020550	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_3123.1	C_unshiu_00136_mRNA_31.1	-
GF0020549	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_3106.1	C_unshiu_00136_mRNA_12.1	-
GF0020548	1	1	0	Epithiospecifier protein (2)	protein binding [GO:0005515]; molecular_function [2]	Kelch-type beta propeller [IPR015915]; (2); Kelch repeat type 1 [IPR006652] (2)	scaffold_2_mRNA_3101.1	C_unshiu_00136_mRNA_7.1	-
GF0020547	1	1	0	Hypothetical protein (2)	dose-response, width-dependent activation of muscle oxygen [GO:0004205]; molecular function [2]; oxidation-reduction process [GO:0005514]; biological process [2]; iron ion binding [GO:0005056 molecular function] (2); hem binding [GO:0020037 molecular function] (2)	Cytochrome P450 [IPR001128] (2)	scaffold_2_mRNA_31.1	C_unshiu_00109_mRNA_30.1	-
GF0020546	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular function] (2); nucleic acid binding [GO:0003676 molecular function] (2)	Zinc finger, CCHC-type [IPR001878] (2); Zinc knuckle CX2CX4HX4C [IPR025836] (2)	scaffold_2_mRNA_3097.1	C_unshiu_00136_mRNA_3.1	-
GF0020545	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_308.1	C_unshiu_00392_mRNA_27.1	-
GF0020544	1	1	0	Putative leucine-rich repeat disease resistance protein (1); Verticillium wilt resistance-like protein (1)	protein binding [GO:0005515]	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat, typical subfamily V [IPR001611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (1)	scaffold_2_mRNA_3070.1	C_unshiu_00863_mRNA_11.1	-
GF0020543	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_3065.1	C_unshiu_00863_mRNA_3.1	-
GF0020542	1	1	0	Leucine-rich repeat receptor-like serine/threonine-protein kinase BAM2 (2)	protein binding [GO:0005515]	Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (1)	scaffold_2_mRNA_3063.1	C_unshiu_00081_mRNA_69.1	-
GF0020540	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_305.1	C_unshiu_00392_mRNA_22.1	-
GF0020539	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_304.1	C_unshiu_00392_mRNA_21.1	-
GF0020538	1	1	0	Receptor like protein 33 (2)	protein binding [GO:0005515]	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat, typical subfamily V [IPR001611] (2); Leucine-rich repeat [IPR001611] (2)	scaffold_2_mRNA_3037.1	C_unshiu_00081_mRNA_67.1	-
GF0020536	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_3027.1	C_unshiu_00081_mRNA_57.1	-
GF0020535	1	1	0	Downward leaf curling protein (2)	protein binding [GO:0005515]	Sterile alpha motif domain [IPR001660] (2); Sterile alpha motif/pointed domain [IPR013197] (2); WD40/VITN repeat-like-containing domain [IPR015943] (2); Nucleoporin, Nap133/Nup155-like, N-terminal [IPR14908] (2); Nucleoporin, Nap133/Nup155-like, C-terminal [IPR000187] (1)	scaffold_2_mRNA_3023.1	C_unshiu_00081_mRNA_53.2	-
GF0020534	1	1	0	Nup133/Nup155-like nucleoporin (2)	protein binding [GO:0005515]	Nuclear protein DGCR14 [IPR019148]	scaffold_2_mRNA_3022.1	C_unshiu_00081_mRNA_52.1	-
GF0020533	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_302.1	C_unshiu_00392_mRNA_20.1	-
GF0020532	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_3017.1	C_unshiu_00081_mRNA_47.1	-
GF0020531	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_301.1	C_unshiu_00392_mRNA_19.1	-
GF0020530	1	1	0	DGCR14 protein (2)			scaffold_2_mRNA_3009.1	C_unshiu_00081_mRNA_39.1	-
GF0020529	1	1	0	Putative serine/threonine-protein kinase WNK1 (2)	protein phosphorylation [GO:0006468]; biological_process [2]; protein kinase activity [GO:0004683]	Protein kinase domain [IPR000719] (2); Protein kinase-like domain [IPR011009]	scaffold_2_mRNA_3008.1	C_unshiu_00081_mRNA_38.1	-
GF0020528	1	1	0	Hypothetical protein (2)	integral component of membrane [GO:0016021 cellular_component] (1)	Cytochrome b561 domain [IPR004577] (1); Cytochrome b561/ferredoxin transmembrane [IPR006593] (1)	scaffold_2_mRNA_3001.1	C_unshiu_00081_mRNA_27.1	-
GF0020527	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_300.1	C_unshiu_00361_mRNA_5.1	-
GF0020526	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515]	F-box domain [IPR001810] (2)	scaffold_2_mRNA_2989.1	C_unshiu_00081_mRNA_17.1	-
GF0020525	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2981.1	C_unshiu_00081_mRNA_9.1	-
GF0020524	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355]; biological_process [1]	FHY3/FAR1 family [IPR031052] (1)	scaffold_2_mRNA_2980.1	C_unshiu_00081_mRNA_8.1	-
GF0020523	1	1	0	Hypothetical protein (2)		Gag-polypeptide of LTR copia-type [IPR29472] (1)	scaffold_2_mRNA_2955.1	C_unshiu_00283_mRNA_15.1	-
GF0020522	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2952.1	C_unshiu_00283_mRNA_17.1	-
GF0020521	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2931.1	C_unshiu_00172_mRNA_5.1	-
GF0020520	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2930.1	C_unshiu_00172_mRNA_6.1	-
GF0020518	1	1	0	Hypothetical protein (2)					
GF0020517	1	1	0	Hypothetical protein (2)					
GF0020516	1	1	0	Hypothetical protein (2)					
GF0020514	1	1	0	Hypothetical protein (2)					
GF0020513	1	1	0	Hypothetical protein (2)					
GF0020512	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]	HAT, C-terminal dimerization domain [IPR012337] (2); Ribonuclease H-like domain [IPR000806] (2); Ribonuclease H-like domain [IPB012337] (2)	scaffold_2_mRNA_293.1	C_unshiu_01129_mRNA_3.1	-
GF0020511	1	1	0	Polymerotidyl transferase, Ribonuclease H fold (2)	nucleic acid binding [GO:0003676]	Ribonuclease H-like domain [IPR012337] (2)	scaffold_2_mRNA_2929.1	C_unshiu_00172_mRNA_7.1	-
GF0020510	1	1	0	Hypothetical protein (2)	lipid metabolic process [GO:0006629]	Partial AD-ydrophore lipase domain [IPR006693] (2); Alpha/Beta hydrolase fold [IPR029058] (1)	scaffold_2_mRNA_2926.1	C_unshiu_00172_mRNA_10.1	-
GF0020509	1	1	0	Zinc finger CCCH domain-containing protein 32 (2)	metal ion binding [GO:0046872]	Zinc finger, CCHC-type [IPR000571] (2); scaffold_2_mRNA_2922.1	C_unshiu_00172_mRNA_14.1	-	
GF0020508	1	1	0	Non-LTR retroelement reverse transcriptase-like protein (1)		Reverse transcriptase domain [IPR000477] (1)	scaffold_2_mRNA_2920.1	C_unshiu_00172_mRNA_16.1	-
GF0020507	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270]	Zinc finger, SWIM-type [IPR007527] (2); Zinc finger PMZ-type [IPR006564]	scaffold_2_mRNA_2918.1	C_unshiu_00172_mRNA_18.1	-
GF0020506	1	1	0	Hypothetical protein (2)		MULE transposase domain [IPR018289] (2)	scaffold_2_mRNA_2917.1	C_unshiu_00172_mRNA_19.1	-
GF0020505	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2915.1	C_unshiu_00172_mRNA_21.1	-
GF0020504	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2889.1	C_unshiu_00958_mRNA_4.1	-
GF0020503	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2880.1	C_unshiu_00958_mRNA_12.1	-
GF0020501	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_287.1	C_unshiu_01129_mRNA_7.1	-
GF0020500	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]	Ribonuclease H-like domain [IPR012337] (1)	scaffold_2_mRNA_2868.1	C_unshiu_00249_mRNA_46.1	-
GF0020499	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]	Domain of unknown function DUF371 [IPR025598] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_2_mRNA_2855.1	C_unshiu_00722_mRNA_9.1	-
GF0020498	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]	Domain of unknown function DUF371 [IPR025598] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_2_mRNA_2841.1	C_unshiu_00593_mRNA_15.1	-
GF0020497	1	1	0	Hypothetical protein (2)	nutrient reservoir activity [GO:0045735]; molecular function [2]; manganese ion binding [GO:003045]	Cupin 1 [IPR006045] (2); Germin [IPR001929] (2); RndC-like domain [IPR014710] (2); RndC-like cupin domain [IPR01051] (2)	scaffold_2_mRNA_2829.1	C_unshiu_00300_mRNA_26.1	-
GF0020495	1	1	0	Hypothetical protein (2)					
GF0020493	1	1	0	Hypothetical protein (2)					
GF0020492	1	1	0	High mobility group (HMG)-box protein (2)					
GF0020490	1	1	0	Hypothetical protein (2)					
GF0020488	1	1	0	Hypothetical protein (2)					
GF0020487	1	1	0	Hypothetical protein (2)					
GF0020486	1	1	0	Hypothetical protein (2)					
GF0020485	1	1	0	Hypothetical protein (2)					
GF0020484	1	1	0	Hypothetical protein (2)					
GF0020483	1	1	0	Hypothetical protein (2)					
GF0020482	1	1	0	Retrotransposon gag protein, <i>t</i> putative (2)					
GF0020480	1	1	0	Hypothetical protein (2)	U4/U6 x U5 tri-snRNP complex [GO:0046540 cellular_component] (1); spliceosomal tri-snRNP complex assembly [GO:000244]	Nop domain [IPR026878] (2); U4/U6 small nuclear ribonucleoprotein Prp31 [IPR027105] (1)	scaffold_2_mRNA_2803.1	C_unshiu_00893_mRNA_4.1	-
GF0020479	1	1	0	Hypothetical protein (2)					
GF0020476	1	1	0	Transposon protein, putative, Pong sub-class (2)	hydrolase activity, acting on ester bonds [GO:001788 molecular function] (2)	Haringer transposase-derived protein [IPR006912] (2)	scaffold_2_mRNA_2756.1	C_unshiu_00228_mRNA_46.1	-
GF0020475	1	1	0	Hypothetical protein (2)					
GF0020474	1	1	0	Hypothetical protein (2)					
GF0020473	1	1	0	Hypothetical protein (2)					

ID	Num. in <i>C. clementiae</i>	Num. in <i>C. umshiu</i>	Num. in <i>P. trifoliata</i>	Name	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliata</i>
GF0020472	1	1	0	Hypothetical protein (2)		scaffold_2_mRNA_2722.1	C_umshiu_00607_mRNA_14.1	-	
GF0020470	1	1	0	Hypothetical protein (2)		scaffold_2_mRNA_271.1	C_umshiu_00278_mRNA_30.1	-	
GF0020469	1	1	0	Hypothetical protein (2)		scaffold_2_mRNA_270.1	C_umshiu_00228_mRNA_29.1	-	
GF0020466	1	1	0	Hypothetical protein (2)		scaffold_2_mRNA_2687.1	C_umshiu_00642_mRNA_4.1	-	
GF0020465	1	1	0	Hypothetical protein (2)		scaffold_2_mRNA_2685.1	C_umshiu_00642_mRNA_2.1	-	
GF0020464	1	1	0	Hypothetical protein (2)		scaffold_2_mRNA_2681.1	C_umshiu_01288_mRNA_8.1	-	
GF0020463	1	1	0	Hypothetical protein (2)		scaffold_2_mRNA_2681	C_umshiu_00178_mRNA_24.1	-	
GF0020461	1	1	0	Hypothetical protein (2)		scaffold_2_mRNA_2668.1	C_umshiu_00178_mRNA_24.1	-	
GF0020460	1	1	0	Hypothetical protein (2)		scaffold_2_mRNA_2664.1	C_umshiu_01138_mRNA_5.1	-	
GF0020459	1	1	0	Hypothetical protein (2)		scaffold_2_mRNA_2662.1	C_umshiu_01138_mRNA_7.1	-	
				Putative CA1-I autoinducer sensor					
GF0020458	1	1	0	kinase/phosphatase cqS-like (1); CAI-1 autoinducer sensor kinase/phosphatase cqS isoform 2 (1)		Harbinger transposase-derived nucleic acid domain [IPR027806] (2)	scaffold_2_mRNA_2658.1	C_umshiu_00081_mRNA_72.1	-
GF0020457	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524 molecular_function] (2)	Chaperonin Cpn60/TCP-1 family [IPR02423] (2); GroEL-like equatorial domain [IPR027413] (2)	scaffold_2_mRNA_2650.1	C_umshiu_00417_mRNA_4.1	-
GF0020456	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2648.1	C_umshiu_00198_mRNA_6.1	-
GF0020454	1	1	0	Retrotransposon gag protein (1); Hypothetical protein (1)			scaffold_2_mRNA_263.1	C_umshiu_00228_mRNA_25.1	-
GF0020453	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2624.1	C_umshiu_00498_mRNA_25.1	-
GF0020452	1	1	0	Hypothetical protein (1); Chaperone protein DnaK (1)		Heat shock protein 70 family [IPR01126] (2); Heat shock protein 70, conserved site [IPR01818] (2); Protein of unknown function DUf604 [IPR006740] (1)	scaffold_2_mRNA_2615.1	C_umshiu_01832_mRNA_3.1	-
GF0020451	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2606.1	C_umshiu_02067_mRNA_3.1	-
GF0020450	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2604.1	C_umshiu_02067_mRNA_1.1	-
				Protein kinase, ATP binding site					
GF0020449	1	1	0	Hypothetical protein (2)	protein kinase [GO:0004672 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2); ATP binding [GO:0005524 molecular_function] (2); protein tyrosine kinase activity [GO:0004713 molecular_function] (1)	[IPR01744] (2); Protein kinase-like domain [IPR011009] (2); Protein kinase domain [IPR000719] (2); Serine-threonine-tyrosine-protein kinase catalytic domain [IPR000535] (1); Serine-threonine-tyrosine-protein kinase, catalytic domain [IPR001245] (1); Tyrosine-protein kinase, catalytic domain [IPR20635] (1)	scaffold_2_mRNA_26.1	C_umshiu_00109_mRNA_23.1	-
GF0020448	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_2_mRNA_2598.1	C_umshiu_01444_mRNA_9.1	-
GF0020447	1	1	0	Hypothetical protein (2)		Metallo-beta-lactamase [IPR0001279] (2)	scaffold_2_mRNA_2596.1	C_umshiu_01444_mRNA_6.1	-
GF0020446	1	1	0	Mannosidase transmembrane protein (1); Hypothetical protein (1)		Reverse transcriptase domain [IPR000477] (2)	scaffold_2_mRNA_2590.1	C_umshiu_00531_mRNA_18.1	-
GF0020445	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_259.1	C_umshiu_00228_mRNA_22.1	-
GF0020444	1	1	0	Hypothetical protein (2)		Aspartic peptidase domain [IPR021109] (1)	scaffold_2_mRNA_2589.1	C_umshiu_00531_mRNA_19.1	-
GF0020443	1	1	0	Hypothetical protein (2)		Protein of unknown function wound-induced [IPR022251] (2)	scaffold_2_mRNA_2588.1	C_umshiu_00531_mRNA_20.1	-
GF0020441	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2562.1	C_umshiu_00265_mRNA_14.1	-
GF0020440	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1); zinc ion binding [GO:0008270 molecular_function] (1)	Zinc finger, CCHC-type [IPR001878] (1)	scaffold_2_mRNA_2555.1	C_umshiu_00467_mRNA_9.1	-
GF0020439	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2554.1	C_umshiu_00579_mRNA_2.1	-
GF0020438	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2553.1	C_umshiu_00579_mRNA_1.1	-
GF0020437	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_255.1	C_umshiu_00228_mRNA_20.1	-
GF0020432	1	1	0		Cyclic nucleotide-gated ion channel, putative (1); Cyclic nucleotide-gated ion channel (1)	Cyclic nucleotide-binding domain [IPR000595] (2); IQ motif, EF-hand binding site [IPR000048] (2); Cyclic nucleotide-binding-like [IPR018490] (2); RmC-like jelly roll fold [IPR014710] (2)	scaffold_2_mRNA_2513.1	C_umshiu_02654_mRNA_1.1	-
GF0020431	1	1	0		protein binding [GO:0005515 molecular_function] (2)	Retrotransposon gag domain [IPR005162] (2)	scaffold_2_mRNA_2512.1	C_umshiu_02654_mRNA_2.1	-
GF0020430	1	1	0	Retrotransposon gag protein (2)			scaffold_2_mRNA_2506.1	C_umshiu_00724_mRNA_14.1	-
GF0020429	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_250.1	C_umshiu_00228_mRNA_17.1	-
GF0020428	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2495.1	C_umshiu_00724_mRNA_5.1	-
GF0020426	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_249.1	C_umshiu_00228_mRNA_16.1	-
GF0020425	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2484.1	C_umshiu_01465_mRNA_1.1	-
GF0020424	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_248.1	C_umshiu_01465_mRNA_3.1	-
GF0020423	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2477.1	C_umshiu_00565_mRNA_5.1	-
GF0020420	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2475.1	C_umshiu_00565_mRNA_7.1	-
GF0020419	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2474.1	C_umshiu_00565_mRNA_8.1	-
GF0020418	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2470.1	C.umshiu_00565_mRNA_16.1	-
GF0020416	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1); zinc ion binding [GO:0008270 molecular_function] (1)	Zinc finger, CCHC-type [IPR001878] (1)	scaffold_2_mRNA_246.1	C.umshiu_00228_mRNA_13.1	-
GF0020415	1	1	0	Hypothetical protein (2)		Viral movement protein [IPR028919] (2)	scaffold_2_mRNA_2455.1	C.umshiu_01407_mRNA_5.1	-
GF0020414	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2454.1	C.umshiu_01407_mRNA_4.1	-
GF0020413	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_245.1	C.umshiu_00228_mRNA_12.1	-
GF0020412	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2449.1	C.umshiu_00128_mRNA_9.1	-
GF0020411	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2447.1	C.umshiu_00128_mRNA_11.1	-
GF0020410	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2443.1	C.umshiu_00128_mRNA_13.1	-
GF0020409	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2438.1	C.umshiu_00128_mRNA_28.1	-
GF0020408	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2422.1	C.umshiu_01182_mRNA_13.1	-
GF0020407	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2420.1	C.umshiu_01182_mRNA_14.1	-
GF0020406	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2417.1	C.umshiu_00160_mRNA_4.1	-
GF0020415	1	1	0		aspartic-type endopeptidase activity [GO:0004190 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Zinc finger, CCHC-type [IPR001878] (2); Reverse transcriptase domain [IPR000477] (2); Peptidase A2A, retrovirus; catalytic [IPR00195] (2)	scaffold_2_mRNA_2416.1	C.umshiu_00160_mRNA_5.1	-
GF0020404	1	1	0	Hypothetical protein (2)		Reverse transcriptase domain [IPR000477] (2)	scaffold_2_mRNA_2415.1	C.umshiu_00160_mRNA_6.1	-
GF0020403	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2413.1	C.umshiu_00160_mRNA_8.1	-
GF0020402	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2412.1	C.umshiu_00160_mRNA_9.1	-
GF0020401	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2411.1	C.umshiu_00160_mRNA_10.1	-
GF0020400	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2408.1	C.umshiu_00317_mRNA_25.1	-
GF0020399	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2406.1	C.umshiu_01845_mRNA_13.1	-
GF0020398	1	1	0	Hypothetical protein (2)		Viral movement protein [IPR028919] (2)	scaffold_2_mRNA_2405.1	C.umshiu_01845_mRNA_12.1	-
GF0020397	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2403.1	C.umshiu_01845_mRNA_10.1	-
GF0020396	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2402.1	C.umshiu_01845_mRNA_9.1	-
GF0020395	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2401.1	C.umshiu_01845_mRNA_8.1	-
GF0020394	1	1	0	Hypothetical protein (2)		Reverse transcriptase domain [IPR000477] (2)	scaffold_2_mRNA_2400.1	C.umshiu_01845_mRNA_7.1	-
GF0020393	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_24.1	C.umshiu_00109_mRNA_21.1	-
GF0020392	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2399.1	C.umshiu_01845_mRNA_6.1	-
GF0020391	1	1	0	Hypothetical protein (2)		Viral movement protein [IPR028919] (2); Reverse transcriptase domain [IPR000477] (2)	scaffold_2_mRNA_2398.1	C.umshiu_01845_mRNA_5.1	-
GF0020390	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2397.1	C.umshiu_01845_mRNA_3.1	-
GF0020389	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2396.1	C.umshiu_01845_mRNA_2.1	-
GF0020388	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2390.1	C.umshiu_02734_mRNA_2.1	-
GF0020387	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular_function] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	Zinc finger, CCHC-type [IPR001878] (1)	scaffold_2_mRNA_239.1	C.umshiu_00228_mRNA_6.1	-
GF0020386	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (2)	Zinc finger, CCHC-type [IPR001878] (2)	scaffold_2_mRNA_238.1	C.umshiu_00678_mRNA_2.1	-
GF0020385	1	1	0	Hypothetical protein (2)		Uncharacterised protein family UPF0274 [IPR007451] (1)	scaffold_2_mRNA_238.1	C.umshiu_00655_mRNA_5.1	-
GF0020384	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2382.1	C.umshiu_00655_mRNA_4.1	-
GF0020383	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2374.1	C.umshiu_01129_mRNA_1.1	-
GF0020382	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_237.1	C.umshiu_00228_mRNA_5.1	-
GF0020381	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_236.1	C.umshiu_00261_mRNA_26.1	-
GF0020380	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2359.1	C.umshiu_00261_mRNA_30.1	-
GF0020379	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2356.1	C.umshiu_00261_mRNA_29.1	-
GF0020378	1	1	0	Hypothetical protein (2)		Viral movement protein [IPR028919] (1); Reverse transcriptase domain [IPR000477] (1)	scaffold_2_mRNA_2355.1	C.umshiu_01397_mRNA_4.1	-
GF0020377	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2347.1	C.umshiu_01397_mRNA_5.1	-
GF0020376	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2346.1	C.umshiu_01397_mRNA_5.1	-
GF0020375	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_234.1	C.umshiu_00228_mRNA_3.1	-
GF0020374	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2339.1	C.umshiu_01759_mRNA_5.1	-
GF0020373	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2337.1	C.umshiu_01759_mRNA_7.1	-
GF0020372	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2336.1	C.umshiu_01759_mRNA_8.1	-
GF0020371	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2325.1	C.umshiu_00160_mRNA_3.1	-
GF0020370	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2318.1	C.umshiu_00474_mRNA_9.1	-
GF0020369	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2317.1	C.umshiu_00474_mRNA_7.1	-
GF0020368	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2314.1	C.umshiu_00665_mRNA_70.1	-
GF0020367	1	1	0	Hypothetical protein (2)	Reverse transcriptase domain [IPR000477] (1)	scaffold_2_mRNA_2311.1	C.umshiu_00665_mRNA_68.1	-	
GF0020366	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2310.1	C.umshiu_00665_mRNA_67.1	-
GF0020365	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2308.1	C.umshiu_00665_mRNA_64.1	-
GF0020364	1	1	0	Cytokinin riboside 5'-monophosphate			scaffold_2_mRNA_2307.1	C.umshiu_00665_mRNA_63.1	-
GF0020363	1	1	0	phosphoribohydrolase (1); Hypothetical protein (1)			scaffold_2_mRNA_2306.1	C.umshiu_00640_mRNA_16.1	-
GF0020362	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2298.1	C.umshiu_00074_mRNA_42.1	-
GF0020361	1	1	0	Retrotransposon protein, putative, Ty3					

ID	Num. in <i>C. clementine</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Name	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0020360	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2297.1	C_unshiu_00074_mRNA_43.1	-
GF0020359	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2296.1	C_unshiu_01585_mRNA_1.1	-
GF0020358	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2295.1	C_unshiu_01585_mRNA_2.1	-
GF0020357	1	1	0	Hypothetical protein (2)			Viral movement protein [IPR028919] (2)	C_unshiu_01585_mRNA_5.1	-
GF0020356	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_228.1	C_unshiu_02996_mRNA_2.1	-
GF0020355	1	1	0	Retrotransposon protein, putative, Ty1-copia subclass (2)	zinc ion binding [GO:0008270]; molecular_function [2]; nucleic acid binding [GO:0003676]; molecular_function [2]	Zinc finger, CCHC-type [IPR001878] (2)	scaffold_2_mRNA_2259.1	C_unshiu_01017_mRNA_6.1	-
GF0020354	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2258.1	C_unshiu_01017_mRNA_5.1	-
GF0020353	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2256.1	C_unshiu_01017_mRNA_3.1	-
GF0020351	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2250.1	C_unshiu_00934_mRNA_1.1	-
GF0020350	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_225.1	C_unshiu_01199_mRNA_6.1	-
GF0020349	1	1	0	Cytokinin riboside 5'-monophosphate phosphotribhydrolyase (2)	Cytokinin riboside 5'-monophosphate phosphotribhydrolyase LOG [IPR005269] (2); LOG family [IPR031100] (2)	Zinc finger, CCHC-type [IPR001878] (2); Reverse transcriptase domain [PR000477] (2)	scaffold_2_mRNA_2249.1	C_unshiu_00934_mRNA_2.1	-
GF0020348	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2248.1	C_unshiu_00934_mRNA_3.1	-
GF0020347	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270]; molecular_function [2]; nucleic acid binding [GO:0003676]; molecular_function [2]	Zinc finger, CCHC-type [IPR001878] (2); Reverse transcriptase domain [PR000477] (2)	scaffold_2_mRNA_2241.1	C_unshiu_00520_mRNA_7.1	-
GF0020346	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_2240.1	C_unshiu_00520_mRNA_8.1	-
GF0020345	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_224.1	C_unshiu_01199_mRNA_7.1	-
GF0020344	1	1	0	RNA-directed DNA polymerase (1); Hypothetical protein (1)		Reverse transcriptase domain [PR000477] (2)	scaffold_2_mRNA_2239.1	C_unshiu_00520_mRNA_9.1	-
GF0020343	1	1	0	Hypothetical protein (2)					
GF0020342	1	1	0	Hypothetical protein (2)					
GF0020341	1	1	0	Hypothetical protein (2)					
GF0020337	1	1	0	Hypothetical protein (2)					
GF0020336	1	1	0	Hypothetical protein (2)					
GF0020335	1	1	0	Orcinol O-methyltransferase (1); Hypothetical protein (1)	O-methyltransferase activity [GO:000171]; methyltransferase activity [GO:0008168]; molecular_function [2]; protein dimerization activity [GO:0046983]; molecular_function [1]	Zinc finger, CCHC-type [IPR001878] (2); Winged helix-turn-helix domain [PR001077] (2); Sadenoyl-L-methionine-dependent methyltransferase dimerisation [IPR012967] (1)	scaffold_2_mRNA_2194.1	C_unshiu_00683_mRNA_7.1	-
GF0020334	1	1	0	Hypothetical protein (2)					
GF0020333	1	1	0	Hypothetical protein (2)					
GF0020331	1	1	0	Hypothetical protein (2)					
GF0020330	1	1	0	BED zinc finger,hAT family dimerization domain isoform 1 (2)	nucleic acid binding [GO:0003676]; molecular_function [2]; protein dimerization activity [GO:0046983]; molecular_function [2]; DNA binding [GO:0003677]; molecular_function [2]	Zinc finger, BED-type [IPR003656] (2); hAT-like transposase, RNase-H fold [PR025525] (2); Ribonuclease H-like domain [IPR012337] (2); HAT, C-terminal termination domain [IPR008906] (2); Zinc finger C2H2-type [IPR013087] (1)	scaffold_2_mRNA_2156.1	C_unshiu_02468_mRNA_1.1	-
GF0020329	1	1	0	Hypothetical protein (2)					
GF0020328	1	1	0	Cytokinin riboside 5'-monophosphate phosphotribhydrolyase (2)	Cytokinin riboside 5'-monophosphate phosphotribhydrolyase LOG [IPR005269] (2); LOG family [IPR031100] (2)	Zinc finger, CCHC-type [IPR001878] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2)	scaffold_2_mRNA_2149.1	C_unshiu_01925_mRNA_2.1	-
GF0020326	1	1	0	Contains similarity to reverse transcriptase (2)					
GF0020325	1	1	0	CDNA-ase-002-110-H12, full insert sequence (2)	nucleic acid binding [GO:0003676]; molecular_function [2]	Reverse transcriptase zinc-binding domain [IPR026960] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_2_mRNA_2145.1	C_unshiu_01305_mRNA_4.1	-
GF0020324	1	1	0	Hypothetical protein (2)					
GF0020323	1	1	0	Hypothetical protein (2)					
GF0020322	1	1	0	Hypothetical protein (2)					
GF0020320	1	1	0	Hypothetical protein (2)					
GF0020319	1	1	0	LRR receptor-like kinase family protein (1); Hypothetical protein (1)	protein binding [GO:0005515]; molecular_function [2]; protein kinase activity [GO:0004672]; molecular_function [2]; protein phosphorylation [GO:0006468]; biological_process [2]; ATP binding [GO:0005524]; molecular_function [2]	Protein kinase, ATP binding site [IPR013241]; Leucine-rich repeat; [PR00111]; Protein kinase domain [IPR007119]; [C]: Leucine-rich repeat, typical subtype [IPR003591]; [C]: Protein kinase-like domain [IPR011009]; [C]: Leucine-rich repeat, L-domain-like [IPR002252]; [C]: WD40 repeat, conserved site [IPR019757]; [C]: WD40 repeat [IPR016180]; [C]: WD40-repeat-containing domain [IPR017986]; [C]: Serine-threonine-protein kinase catalytic domain [IPR012451]; [C]: Serine-valine A-like lectin phagcuse domain [IPR013320] (1)	scaffold_2_mRNA_21.1	C_unshiu_00109_mRNA_18.1	-
GF0020318	1	1	0	Hypothetical protein (2)					
GF0020317	1	1	0	Hypothetical protein (2)					
GF0020316	1	1	0	Hypothetical protein (2)					
GF0020315	1	1	0	Hypothetical protein (2)					
GF0020314	1	1	0	Hypothetical protein (2)					
GF0020312	1	1	0	Hypothetical protein (2)					
GF0020311	1	1	0	Putative non-LTR reverse transcriptase (1); Putative pol polyprotein (1)		NAD(P)-binding domain [IPR016040] (1); NtnA-domain [IPR008030] (1)	scaffold_2_mRNA_2063.1	C_unshiu_00044_mRNA_73.1	-
GF0020310	1	1	0	Hypothetical protein (2)					
GF0020309	1	1	0	Hypothetical protein (2)					
GF0020308	1	1	0	Hypothetical protein (2)					
GF0020307	1	1	0	Hypothetical protein (2)					
GF0020306	1	1	0	Hypothetical protein (2)					
GF0020305	1	1	0	Hypothetical protein (2)					
GF0020302	1	1	0	Hypothetical protein (2)					
GF0020301	1	1	0	Hypothetical protein (2)					
GF0020300	1	1	0	Hypothetical protein (2)					
GF0020299	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]; molecular_function [2]	Ribonuclease H-like domain [IPR012337] (2)	scaffold_2_mRNA_2014.1	C_unshiu_00059_mRNA_11.1	-
GF0020298	1	1	0	Hypothetical protein (2)					
GF0020297	1	1	0	Hypothetical protein (2)					
GF0020296	1	1	0	Hypothetical protein (2)					
GF0020295	1	1	0	Transmembrane E3 ubiquitin-protein ligase 1 (1); Hypothetical protein (1)	zinc ion binding [GO:0008270]; molecular_function [2]; protein binding [GO:0005515]; molecular_function [1]	Zinc finger, RING-type [IPR001841] (1); Zinc finger, RING-CCHC-type [IPR011016] (1); Zinc finger, RING-FYVE/PHD-type [IPR013083] (1)	scaffold_2_mRNA_2005.1	C_unshiu_01875_mRNA_3.1	-
GF0020292	1	1	0	Hypothetical protein (2)					
GF0020291	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515]; molecular_function [2]	Leucine-rich repeat [IPR001611]; Leucine-rich repeat-containing N-terminal, plant-type [IPR013210]; [C]: Leucine-rich repeat domain, I-domain-like [IPR032675] (2)	scaffold_2_mRNA_200.1	C_unshiu_00464_mRNA_7.1	-
GF0020290	1	1	0	Hypothetical protein (2)					
GF0020289	1	1	0	Hypothetical protein (2)					
GF0020288	1	1	0	Hypothetical protein (2)					
GF0020287	1	1	0	Hypothetical protein (2)					
GF0020286	1	1	0	Hypothetical protein (2)					
GF0020285	1	1	0	Retrotransposon protein, putative, Ty1-copia subclass (2)	pyridoxal phosphate binding [GO:0003824]; cellular amino acid metabolic process [GO:0006520]; biological_process [2]; transaminase activity; transferring hexosyl group [GO:0001696]; molecular_function [2]	Zinc finger, RING-type [IPR001841]; Zinc finger, RING-CCHC-type [IPR011016] (1); Zinc finger, RING-FYVE/PHD-type [IPR013083] (1)	scaffold_2_mRNA_2006.1	C_unshiu_01875_mRNA_1.1	-
GF0020284	1	1	0	Nicotianamine aminotransferase A (2)					
GF0020283	1	1	0	Hypothetical protein (1); Ribonuclease H protein (1)	nucleic acid binding [GO:0003676]; molecular_function [2]; RNA-DNA hybrid ribonuclease activity [GO:0004523]; molecular_function [2]	Pyridoxal phosphate-dependent transferase, major region, subdomain 1 [IPR015421]; [C]: Aminotransferase, class I [IPR015422]; Pyridoxal phosphate-dependent transferase, class II [IPR015423]; Pyridoxal phosphate-dependent transferase, subdomain 2 [IPR015422] (1)	scaffold_2_mRNA_1969.1	C_unshiu_00030_mRNA_24.1	-
GF0020282	1	1	0	Hypothetical protein (2)					
GF0020281	1	1	0	Nicotianamine aminotransferase A (1); Tyrosine transaminase (1)	catalytic activity [GO:0003824]; molecular_function [2]; biosynthetic process [GO:0009058]; biological_process [2]; pyridoxal phosphate binding [GO:0030170]; molecular_function [2]	Pyridoxal phosphate-dependent transferase, major region, subdomain 1 [IPR015421]; [C]: Aminotransferase, class I [IPR015422]; Pyridoxal phosphate-dependent transferase, class II [IPR015423]; Pyridoxal phosphate-dependent transferase, subdomain 2 [IPR015422] (1)	scaffold_2_mRNA_1955.1	C_unshiu_00030_mRNA_37.1	-

ID	Num. in <i>C. clementine</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Name	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>	
GF0020280	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1946.1	C_unshiu_00030_mRNA_47.1	-	
GF0020279	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1941.1	C_unshiu_00030_mRNA_51.1	-	
GF0020278	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1940.1	C_unshiu_00030_mRNA_52.1	-	
GF0020277	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_194.1	C_unshiu_00478_mRNA_17.1	-	
GF0020276	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1939.1	C_unshiu_00030_mRNA_53.1	-	
GF0020275	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0040983 molecular function] (1); nucleic acid binding [GO:0003676 molecular function] (1)	HAT, C-terminal dimerization domain [IPR008906] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_2_mRNA_1938.1	C_unshiu_00030_mRNA_54.1	-	
GF0020274	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1925.1	C_unshiu_00804_mRNA_2.1	-	
GF0020273	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1924.1	C_unshiu_00804_mRNA_3.1	-	
GF0020272	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1921.1	C_unshiu_00804_mRNA_5.1	-	
GF0020271	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1918.1	C_unshiu_00804_mRNA_7.1	-	
GF0020270	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1917.1	C_unshiu_00804_mRNA_8.1	-	
GF0020269	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1916.1	C_unshiu_00804_mRNA_9.1	-	
GF0020268	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1913.1	C_unshiu_00804_mRNA_11.1	-	
GF0020267	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1912.1	C_unshiu_00804_mRNA_12.1	-	
GF0020264	1	1	0	Hypothetical protein (2)		Prefoldin alpha-like [IPR004127] (2); Prefoldin [IPR009053] (1)	scaffold_2_mRNA_1897.1	C_unshiu_01608_mRNA_1.1	-	
GF0020263	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular function] (2); nucleic acid binding [GO:0003676 molecular function] (2)	Zinc finger, CCHC-type [IPR001878] (2) scaffold_2_mRNA_1896.1	C_unshiu_00906_mRNA_3.1	-		
GF0020262	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1895.1	C_unshiu_01352_mRNA_5.1	-	
GF0020261	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1893.1	C_unshiu_02033_mRNA_4.1	-	
GF0020260	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular function] (2); transcription, DNA-templated [GO:0003651 biological process] (2); RNA-directed RNA polymerase activity [GO:0003399 molecular function] (1); DNA-directed 5'-3' RNA polymerase activity [GO:0003899 molecular function] (1)	DNA binding [GO:0003677 molecular function] (2); transcription, DNA-templated [GO:0003651 biological process] (2); RNA polymerase Rpb1, domain 5 [IPR007081] (2)	scaffold_2_mRNA_1888.1	C_unshiu_01390_mRNA_5.1	-	
GF0020259	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1886.1	C_unshiu_01390_mRNA_7.1	-	
GF0020258	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular function] (2); nucleic acid binding [GO:0003676 molecular function] (2)	Zinc finger, CCHC-type [IPR001878] (2) scaffold_2_mRNA_1885.1	C_unshiu_02183_mRNA_3.1	-		
GF0020257	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1877.1	C_unshiu_00543_mRNA_6.1	-	
GF0020256	1	1	0	Hypothetical protein (2)		Transposon, En/Spm-like [IPR004242] (2)	scaffold_2_mRNA_1876.1	C_unshiu_00543_mRNA_7.1	-	
GF0020255	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1873.1	C_unshiu_00543_mRNA_9.1	-	
GF0020254	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1864.1	C_unshiu_00856_mRNA_2.1	-	
GF0020252	1	1	0	Hypothetical protein (2)		MULE transposase domain [IPR018289] (1)	scaffold_2_mRNA_1856.1	C_unshiu_01560_mRNA_5.1	-	
GF0020251	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1851	C_unshiu_01376_mRNA_5.1	-	
GF0020250	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1849.1	C_unshiu_00114_mRNA_32.1	-	
GF0020249	1	1	0	MYB family protein (2)	DNA binding [GO:0003677 molecular function] (2)	Homodimer-like [IPR009057] (1); Myb-like domain [IPR017877] (1)	scaffold_2_mRNA_1840.1	C_unshiu_00114_mRNA_40.1	-	
GF0020248	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular function] (2)	hAT-like transposase, RNase-H fold [IPR025525] (2)	scaffold_2_mRNA_1837.1	C_unshiu_00114_mRNA_42.1	-	
GF0020247	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1832.1	C_unshiu_01906_mRNA_4.1	-	
GF0020246	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1827.1	C_unshiu_00349_mRNA_27.1	-	
GF0020243	1	1	0	Putative tRNA retroelement reverse transcriptase (3)	nucleic acid binding [GO:0003676 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_2_mRNA_1823.1	C_unshiu_01464_mRNA_1.1	-	
GF0020242	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1822.1	C_unshiu_01464_mRNA_2.1	-	
GF0020241	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1821.1	C_unshiu_01464_mRNA_3.1	-	
GF0020240	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1819.1	C_unshiu_01464_mRNA_5.1	-	
GF0020239	1	1	0	Hypothetical protein (2)		Glyceraldehyde 3-phosphate dehydrogenase activity, acting on the aldehyde or oxo group of donors, NAD or NADP as acceptor [GO:0016620 molecular function] (2); oxidation-reduction process [GO:0055114 biological process] (2)	Glyceraldehyde 3-phosphate dehydrogenase [IPR020831] (2); Glyceraldehyde-3-phosphate dehydrogenase, NAD(P) binding domain [IPR020828] (2); NAD(P) binding domain [IPR016040] (2); Glyceraldehyde 3-phosphate dehydrogenase active site [IPR020830] (2); Glyceraldehyde/Erythrose phosphate dehydrogenase family [IPR002831] (2)	scaffold_2_mRNA_1814.1	C_unshiu_00767_mRNA_4.1	-
GF0020237	1	1	0	Hypothetical protein (2)		S-locus receptor kinase, C-terminal S-domain [IPR021820] (2); Bulk-type lectin domain [IPR001480] (2); Protein kinase domain [IPR000719] (2); Protein kinase domain [IPR000719] (2); Serine/threonine-protein kinase, catalytic domain [IPR001245] (1); Serine/threonine/dual specific protein kinase, catalytic domain [IPR002290] (1); Serine/threonine-tyrosine-protein kinase catalytic domain [IPR001245] (1)	scaffold_2_mRNA_1808.1	C_unshiu_00466_mRNA_10.1	-	
GF0020236	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1803.1	C_unshiu_00466_mRNA_5.1	-	
GF0020235	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1794.1	C_unshiu_01820_mRNA_1.1	-	
GF0020233	1	1	0	Mitochondrial transcription termination factor family protein, putative (1); Hypothetical protein (1)	Mitochondrial transcription termination factor [IPR003690] (1)	Mitochondrial transcription termination factor [IPR003690] (1)	scaffold_2_mRNA_1772.1	C_unshiu_01458_mRNA_3.1	-	
GF0020232	1	1	0	Myosin-H heavy chain (2)		BIG1/EBP1 N-terminal domain [IPR019481] (2)	scaffold_2_mRNA_1769.1	C_unshiu_01458_mRNA_7.1	-	
GF0020231	1	1	0	UPF0481 protein (2)		Protein of unknown function DUF247, plant [IPR004158] (2)	scaffold_2_mRNA_1767.1	C_unshiu_01738_mRNA_5.1	-	
GF0020229	1	1	0	Monosaccharide transport protein (2)			scaffold_2_mRNA_1743.1	C_unshiu_01178_mRNA_6.1	-	
GF0020228	1	1	0	LRR receptor-like serine/threonine-protein kinase ERLL2; Leucine-rich repeat receptor-like protein kinase PXL1 (1)	protein binding [GO:0005515 molecular function] (2)	Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat domain containing N-terminal domain [IPR001611] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat, typical subtype [IPR003591] (2)	scaffold_2_mRNA_1740.1	C_unshiu_01178_mRNA_8.1	-	
GF0020227	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Nucleotide-diphospho-sugar transferase [IPR005069] (2)	scaffold_2_mRNA_1733.1	C_unshiu_01421_mRNA_2.1	-	
GF0020226	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1729.1	C_unshiu_01659_mRNA_1.1	-	
GF0020225	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1726.1	C_unshiu_01421_mRNA_6.1	-	
GF0020224	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1716.1	C_unshiu_01990_mRNA_5.1	-	
GF0020223	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1705.1	C_unshiu_01629_mRNA_11.1	-	
GF0020222	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1702.1	C_unshiu_01629_mRNA_8.1	-	
GF0020221	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1700.1	C_unshiu_01629_mRNA_6.1	-	
GF0020220	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1692.1	C_unshiu_01629_mRNA_10.1	-	
GF002019	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1680.1	C_unshiu_01058_mRNA_4.1	-	
GF002018	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1678.1	C_unshiu_01058_mRNA_2.1	-	
GF002017	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1677.1	C_unshiu_01058_mRNA_1.1	-	
GF002016	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological process] (2); nucleic acid binding [GO:000355 biological process] (1); double-stranded DNA binding [GO:003690 molecular function] (1)	Carlavirus nucleic acid-binding protein [IPR025568] (2)	scaffold_2_mRNA_1640.1	C_unshiu_00744_mRNA_13.1	-	
GF002014	1	1	0	Hypothetical protein (2)		Ulp1 protease family, C-terminal catalytic domain [IPR003653] (2)	scaffold_2_mRNA_1634.1	C_unshiu_01700_mRNA_9.1	-	
GF002013	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1609.1	C_unshiu_02477_mRNA_4.1	-	
GF002012	1	1	0	Hypothetical protein (2)		Retrotropomavirus gag domain [IPR005162] (2)	scaffold_2_mRNA_1608.1	C_unshiu_00636_mRNA_14.1	-	
GF002011	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1607.1	C_unshiu_00636_mRNA_13.1	-	
GF002009	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1556.1	C_unshiu_01201_mRNA_9.1	-	
GF002008	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_2_mRNA_1555.1	C_unshiu_00026_mRNA_8.1	-	
GF002005	1	1	0	Hypothetical protein (2)	histone lysine methylation [GO:0034968 biological process] (2); histone-lysine N-methyltransferase H3 lysine-9 specific SUVH4 (2)		scaffold_2_mRNA_155.1	C_unshiu_01201_mRNA_8.1	-	
GF002003	1	1	0	Hypothetical protein (2)		Pre-SET domain [IPR007728] (2); SET domain [IPR001214] (2); Post-SET domain [IPR003616] (2)	scaffold_2_mRNA_154.1	C_unshiu_00026_mRNA_12.1	-	
GF002002	1	1	0	Hypothetical protein (2)		Protein of unknown function DUF3754 [IPR022227] (2)	scaffold_2_mRNA_154.1	C_unshiu_01201_mRNA_7.1	-	
GF002001	1	1	0	Aminopeptidase (2)			scaffold_2_mRNA_153.1	C_unshiu_00026_mRNA_22.1	-	
GF0020099	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_153.1	C_unshiu_01201_mRNA_6.1	-	
GF0020198	1	1	0	Hypothetical protein (2)		structural component of ribosome [GO:0003715 molecular function] (2); imidazole ring [GO:0005622 cellular component] (2); translation [GO:0006412 biological process] (2); ribosome [GO:0005840 cellular component] (2)	scaffold_2_mRNA_1518.1	C_unshiu_00653_mRNA_12.1	-	

ID	Num in <i>C. clementinae</i>	Num in <i>C. umshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliata</i>	
GF0020196	1	1	0 Hypothetical protein (2)		ATP binding [GO:0005524 molecular_function] (2); nucleotide binding [GO:000166 molecular_function] (2); RNA binding [GO:0003723 molecular_function] (2); tRNA aminoacylase for protein translation [GO:0004604 biological_process] (2); cytoplasm [GO:0005737 cellular_component] (2); tyrosyl-tRNA aminoacylation [GO:0006437 biological_process] (2); aminoacyl-tRNA ligase activity [GO:0004812 molecular_function] (2); tyrosine-tRNA ligase activity [GO:0004431 molecular_function] (2)	Tyrosine-tRNA ligase, bacterial-type, type I [IPR024107] (2); Rossman-like alpha/beta/alpha sandwich fold [IPR014729] (2); Tyrosyl-tRNA synthetase, class II [IPR002303] (2); Tyrosine-tRNA ligase, bacterial-type [IPR024088] (2)	scaffold_2_mRNA_1498.1	C_umshiu_00957_mRNA_10.1	-	
GF0020195	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_1489.1	C_umshiu_00999_mRNA_2.1	-	
GF0020193	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_148.1	C_umshiu_00174_mRNA_32.1	-	
GF0020192	1	1	0 Pentapeptide repeat-containing protein, mitochondrial (2)		protein binding [GO:0005515 molecular_function] (1)	Pentapeptide repeat [IPR002885] (2); Tetrapeptide-like helical domain [IPR011990] (1)	scaffold_2_mRNA_1479.1	C_umshiu_00999_mRNA_10.1	-	
GF0020191	1	1	0 Hypothetical protein (2)		zinc finger, CCHC-type [GO:0008270 molecular_function] (2); nucleic acid binding [GO:0006629 biological_process] (2)	Zinc finger, CCHC-type [IPR001878] (2) scaffold_2_mRNA_147.1	C_umshiu_00174_mRNA_31.1	-		
GF0020190	1	1	0 Hypothetical protein (2)		lipid metabolic process [GO:0006629 biological_process] (2); phosphatidylcholine-acylhydrolase activity [GO:000970 molecular_function] (1)	Fungal lipase-like domain [IPR002921] (2); Alpha/Beta hydrolase fold [IPR029058] (2); Phospholipase A1-II [IPR033556] (1)	scaffold_2_mRNA_1460.1	C_umshiu_00016_mRNA_6.1	-	
GF0020186	1	1	0 Phospholipase A1 (2)				scaffold_2_mRNA_1451.1	C_umshiu_00184_mRNA_16.1	-	
GF0020185	1	1	0 Hypothetical protein (2)		drug transmembrane transport [GO:0006855 biological_process] (2); antipermease activity [GO:0015287 molecular_function] (2); drug transmembrane transporter activity [GO:0015238 molecular_function] (2); membrane [GO:0016620 cellular_component] (2); transmembrane transport [GO:0035085 biological_process] (2)	Reverse transcriptase domain [IPR004477] (2); Ribonuclease H-like domain [IPR012337] (1)	scaffold_2_mRNA_145.1	C_umshiu_00174_mRNA_28.1	-	
GF0020184	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_1448.1	C_umshiu_00184_mRNA_18.1	-	
GF0020182	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_144.1	C_umshiu_00174_mRNA_27.1	-	
GF0020181	1	1	0 Cytokinin riboside 5'-monophosphate phosphotransferase		LOG family [IPR031000] (2); Cytokinidine 5'-monophosphate phosphotransferase LOG [IPR005269] (2)	scaffold_2_mRNA_143.1	C_umshiu_00174_mRNA_25.1	-		
GF0020180	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_142.1	C_umshiu_00174_mRNA_24.1	-	
GF0020179	1	1	0 Hypothetical protein (2)		Multi antimicrobial extrusion protein [IPR002528] (2)	scaffold_2_mRNA_1413.1	C_umshiu_00184_mRNA_38.1	-		
GF0020178	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_1411.1	C_umshiu_00176_mRNA_19.1	-	
GF0020177	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_141.1	C_umshiu_00174_mRNA_23.1	-	
GF0020176	1	1	0 Vertebrillum wilt disease resistance protein (1); Vertebrillum wilt resistance-like protein (1)		protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat-containing N-terminal domain [IPR003210] (2); leucine-rich repeat domain, leucine-rich repeat typical subtype [IPR032675] (2); Leucine-rich repeat, typical subtype [IPR003591] (2)	scaffold_2_mRNA_1408.1	C_umshiu_00176_mRNA_21.1	-	
GF0020175	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_1400.1	C_umshiu_00176_mRNA_28.1	-	
GF0020174	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_140.1	C_umshiu_01119_mRNA_10.1	-	
GF0020173	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_1394.1	C_umshiu_00176_mRNA_31.1	-	
GF0020172	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_1392.1	C_umshiu_00668_mRNA_32.1	-	
GF0020171	1	1	0 Phospholipase A1-II 7 (1); Hypothetical protein (1)		phosphatidylcholine-1-acylhydrolase activity [GO:000970 molecular_function] (1); lipid metabolic process [GO:000649 biological_process] (1)	Fungal lipase-like domain [IPR002921] (1); Alpha/Beta hydrolase fold [IPR029058] (1); Phospholipase A1-II [IPR033556] (1)	scaffold_2_mRNA_1387.1	C_umshiu_00176_mRNA_34.1	-	
GF0020170	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_1378.1	C_umshiu_00859_mRNA_2.1	-	
GF0020169	1	1	0 Carbohydrate-binding X8 domain protein (2)		X8 domain [IPR012946] (2)	scaffold_2_mRNA_1371.1	C_umshiu_00176_mRNA_47.1	-		
GF0020167	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_1345.1	C_umshiu_00107_mRNA_9.1	-	
GF0020166	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_133.1	C_umshiu_00691_mRNA_14.1	-	
GF0020165	1	1	0 DnaJ like subfamily B member 13 (2)		unfolded protein binding [GO:0051082 molecular_function] (2); protein folding [GO:0006457 biological_process] (2)	HPSPD/DnaJ peptide-binding domain [IPR008971] (2); Chaperone DnaJ, C-terminal [IPR000393] (2)	scaffold_2_mRNA_1323.1	C_umshiu_00403_mRNA_11.1	-	
GF0020164	1	1	0 Hypothetical protein (2)				WIM2 domain [IPR028941] (2); WHIM1 domain [IPR028942] (1); WHIM5 domain [IPR028935] (1)	scaffold_2_mRNA_1322.1	C_umshiu_00403_mRNA_10.1	-
GF0020163	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_1317.1	C_umshiu_00403_mRNA_4.1	-	
GF0020162	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_130.1	C_umshiu_00799_mRNA_12.1	-	
GF0020161	1	1	0 Glycerol-3-phosphate dehydrogenase [NAD(+)] GDPH1C, cytosolic (2)		oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor [GO:0016616 molecular_function] (2); NAD binding [GO:0005114 biological_process] (2); oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity [GO:001649 molecular_function] (2); glycerol-3-phosphate dehydrogenase [NAD ⁺] activity [GO:0004367 molecular_function] (2); glycerol-3-phosphate metabolic process [GO:0006972 biological_process] (2); carbohydrate metabolic process [GO:0005975 biological_process] (2)	Glycerol-3-phosphate dehydrogenase, NAD ⁺ -dependent, C-terminal [IPR011120] (2); Glycerol-3-phosphate dehydrogenase, NAD-dependent, C-terminal [IPR006109] (1); NADP ⁺ -binding domain [IPR016040] (2); Glycerol-3-phosphate dehydrogenase, NAD ⁺ -dependent, C-terminal domain [IPR011120] (2); 6-phosphogluconate dehydrogenase, C-terminal domain [IPR013328] (2); Glycerol-3-phosphate dehydrogenase, NAD ⁺ -dependent, eukaryotic [IPR017751] (2)	scaffold_2_mRNA_1292.1	C_umshiu_00055_mRNA_53.1	-	
GF0020160	1	1	0 Hypothetical protein (2)				Sieve element occlusion, N-terminal domain [IPR011042] (2)	scaffold_2_mRNA_1287.1	C_umshiu_00055_mRNA_56.1	-
GF0020158	1	1	0 Polynucleotidyl transferase, Ribonuclease H fold (2)		nucleic acid binding [GO:0003676 molecular_function] (2); nucleotide binding [GO:0000166 molecular_function] (1)	Ribonuclease H-like domain [IPR012337] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2); RNA recognition motif domain [IPR000394] (2); Nucleotide-binding domain [IPR011990] (1)	scaffold_2_mRNA_1282.1	C_umshiu_01160_mRNA_11.1	-	
GF0020157	1	1	0 Hypothetical protein (1); Non-LTR retroelement reverse transcriptase-like (1) molecular_function (1)			Reverse transcriptase zinc-binding domain [IPR026960] (2); Ribonuclease H-like domain [IPR012337] (1)	scaffold_2_mRNA_1279.1	C_umshiu_01160_mRNA_8.1	-	
GF0020156	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_127.1	C_umshiu_00799_mRNA_10.1	-	
GF0020155	1	1	0 E3 ubiquitin-protein ligase RGLG2 (2)		zinc ion binding [GO:0008270 molecular_function] (1); protein binding [GO:0005515 molecular_function] (1)	von Willebrand factor, type A domain [IPR020315] (2); Copine [IPR010734] (2); Zinc finger, RING-type [IPR001841] scaffold_2_mRNA_1269.1	scaffold_2_mRNA_1269.1	C_umshiu_00052_mRNA_11.2	-	
GF0020154	1	1	0 Hypothetical protein (2)					C_umshiu_00049_mRNA_21.1	-	
GF0020153	1	1	0 Hypothetical protein (2)		protein binding [GO:0005515 molecular_function] (1)	Pentapeptide repeat [IPR002885] (2); Tetrapeptide-like helical domain [IPR011990] (1)	scaffold_2_mRNA_1242.1	C_umshiu_00049_mRNA_22.1	-	
GF0020152	1	1	0 Myb-related protein Myb4 (2)		DNA binding [GO:0003677 molecular_function] (2)	S4/TM4 domain [IPR001005] (2); Myb domain [IPR017930] (2); Homeodomain-like [IPR0009057] (1); Homeobox domain-like [IPR0009057] (1)	scaffold_2_mRNA_1232.1	C_umshiu_00049_mRNA_42.1	-	
GF0020151	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_123.1	C_umshiu_00799_mRNA_7.1	-	
GF0020150	1	1	0 Dual specificity mitogen-activated protein kinase 1 (2)		ATP binding [GO:0005524 molecular_function] (2); protein phosphorylation [GO:0006468 molecular_function] (2); protein kinase activity [GO:0004672 molecular_function] (2)	Protein kinase-like domain [IPR011009] (1); Nuclear transport factor 2, eukaryote [IPR018256] (2); Protein kinase, ATP binding site [IPR017441] (2); NTF2-like domain [IPR032710] (2); Serine/threonine-protein kinase, active site [IPR008271] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_2_mRNA_1224.1	C_umshiu_00049_mRNA_51.1	-	
GF0020149	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_122.1	C_umshiu_00799_mRNA_6.1	-	
GF0020147	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_1210.1	C_umshiu_00049_mRNA_66.1	-	
GF0020146	1	1	0 Hypothetical protein (2)				scaffold_2_mRNA_121.1	C_umshiu_00799_mRNA_5.1	-	
GF0020145	1	1	0 Hypothetical protein (2)		cell redox-homeostasis [GO:0045454 biological_process] (2); electron carrier activity [GO:0000955 molecular_function] (2); protein disulfide oxidoreductase activity [GO:0015035 molecular_function] (2)	Thioredoxin-like fold [IPR012336] (2); Glutaredoxin, eukaryotic [IPR01189] (2); Glutaredoxin [IPR002109] (2); Glutaredoxin active site [IPR011767] (2); Glutaredoxin subgroup [IPR014025] (2)	scaffold_2_mRNA_1195.1	C_umshiu_00049_mRNA_76.1	-	
GF0020144	1	1	0 Glutaredoxin (2)				scaffold_2_mRNA_1193.1	C_umshiu_00049_mRNA_78.1	-	

ID	Num in <i>C. clementine</i>	Num in <i>C. umshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliata</i>	
GF0020143	1	1	0	Glycogen synthase kinase-3 MsK-3 (2)	Protein phosphorylation [GO:0006468]; biological_process [2]; protein kinase activity [GO:0004672]; ATP binding [GO:0005524 molecular_function] (2)	Protein kinase domain [IPR000719] (2); Protein kinase-like domain [IPR011009]; Serine/threonine-protein kinase, active site [IPR008271] (2); Protein kinase, ATP binding site [IPR017441] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR022390] (1)	scaffold_2_mRNA_1182.1	C_umshiu_00067_mRNA_7.1	-	
GF0020142	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676]; molecular_function [1]; zinc ion binding [GO:0008270 molecular_function] (1)	Zinc finger, CCHC-type [IPR001878] (1) scaffold_2_mRNA_118.1	C_umshiu_00188_mRNA_27.1	-		
GF0020140	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_1163.1	C_umshiu_00067_mRNA_26.1	-		
GF0020138	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_114.1	C_umshiu_00456_mRNA_18.1	-		
GF0020137	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_1139.1	C_umshiu_00044_mRNA_24.1	-		
GF0020136	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_1134.1	C_umshiu_00067_mRNA_56.1	-		
GF0020135	1	1	0	Ubiquitin-conjugating enzyme E2 5 (2)	Ubiquitin-conjugating enzyme/RWD-like [IPR016135] (2); Ubiquitin-conjugating enzyme, active site [IPR023313] (2); Ubiquitin-conjugating enzyme E2 [IPR000608] (2)	scaffold_2_mRNA_1129.1	C_umshiu_00189_mRNA_51.1	-		
GF0020134	1	1	0	Hypothetical protein (2)	protein binding [GO:0005155]; molecular_function [2]; serine-type endopeptidase activity [GO:0004252 molecular_function] (1); proteolysis [GO:0006508 biological_process] (1)	Peptidase S1, PA clan [IPR009003] (2); PDZ domain [IPR001478] (2); Peptidase SIC [IPR001940] (1)	scaffold_2_mRNA_1124.1	C_umshiu_00189_mRNA_46.1	-	
GF0020133	1	1	0	Protease Ds-like 9 (2)	-	scaffold_2_mRNA_1120.1	C_umshiu_00189_mRNA_40.1	-		
GF0020132	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_112.1	C_umshiu_00456_mRNA_17.1	-		
GF0020131	1	1	0	Nodulin Mn21/Fam4-like transporter family protein (2)	integral component of membrane [GO:001621 cellular_component] (2); membrane [GO:0016020 cellular_component] (2); transmembrane transporter activity [GO:0022857 molecular_function] (2)	FamA domain [IPR00620] (2); WAT1-related protein [IPR030184] (2)	scaffold_2_mRNA_1119.1	C_umshiu_00189_mRNA_39.1	-	
GF0020129	1	1	0	Trichome birefringence-like 26 (2)	Altered cytoplasmic-like [IPR025975]; 3x-PC-Esterase [IPR026057] (2); PMR N-terminal domain [IPR025846] (2); Trichome birefringence-like family [IPR029962] (2)	scaffold_2_mRNA_1110.1	C_umshiu_00189_mRNA_30.1	-		
GF0020128	1	1	0	Hypothetical protein (2)	[IPR025558] (2)	scaffold_2_mRNA_11.1	C_umshiu_00109_mRNA_9.1	-		
GF0020127	1	1	0	Hypothetical protein (2)	proteolysis [GO:000508 biological_process] (2); serine-type carboxypeptidase activity [GO:0004185 molecular_function] (2)	Peptidase S10, serine carboxypeptidase [IPR001563] (2); Alpha/Beta hydrolase fold [IPR029058] (2)	scaffold_2_mRNA_109.1	C_umshiu_00652_mRNA_1.1	-	
GF0020126	1	1	0	Carboxypeptidase (2)	F-box domain [IPR00110] (2); Domain unknown function DUF4283 [IPR0005174]	scaffold_2_mRNA_1087.1	C_umshiu_00494_mRNA_13.1	-		
GF0020125	1	1	0	F-box protein SKIP23 (2)	protein binding [GO:0005155 molecular_function] (2)	(2); Zinc finger, RING-like [IPR014857] scaffold_2_mRNA_1086.1	C_umshiu_00494_mRNA_12.1	-		
GF0020123	1	1	0	Nse1 non-SMC component of SMC5-6 complex family protein (2)	Smc5-Smc6 complex [GO:0030915 cellular_component] (2); DNA repair [GO:000281 biological_process] (2)	Non-structural maintenance of chromosomes element [IPR011513]; Zinc finger, RING-like [IPR014857] scaffold_2_mRNA_1069.1	C_umshiu_00235_mRNA_6.1	-		
GF0020122	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_1061.1	C_umshiu_00235_mRNA_17.1	-		
GF0020121	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_1051.1	C_umshiu_00235_mRNA_26.1	-		
GF0020120	1	1	0	Hypothetical protein (2)	protein binding [GO:0005155 molecular_function] (2)	Pentatricopeptide repeat [IPR002885] (2); Tetraproticopeptide-like helical domain [IPR011990] (1)	scaffold_2_mRNA_1050.1	C_umshiu_00235_mRNA_27.1	-	
GF0020119	1	1	0	Transcription factor bHLH36 (2)	Myc-type, basic helix-loop-helix (bHLH) domain [IPR011598] (2); Acylate-actuate transcription factor-related [IPR015660] (2)	scaffold_2_mRNA_1049.1	C_umshiu_00235_mRNA_28.1	-		
GF0020118	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_1047.1	C_umshiu_00235_mRNA_30.1	-		
GF0020116	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_102.1	C_umshiu_00652_mRNA_6.1	-		
GF0020115	1	1	0	Hyp-O-arabinofuranosyltransferase homolog (2)	HPC domain [IPR005175] (2); AT-hook motif nuclear-localised protein [IPR014476] (2)	scaffold_2_mRNA_1015.1	C_umshiu_00050_mRNA_51.1	-		
GF0020114	1	1	0	AT-hook motif nuclear-localized protein (2)	AT-hook motif nuclear-localised protein [IPR014476] (2)	scaffold_2_mRNA_1014.1	C_umshiu_00050_mRNA_52.1	-		
GF0020113	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_1013.1	C_umshiu_00050_mRNA_53.1	-		
GF0020112	1	1	0	Hypothetical protein (2)	-	scaffold_2_mRNA_101.1	C_umshiu_00652_mRNA_7.1	-		
GF0020111	1	1	0	Hypothetical protein (1); Alcohol acyltransferase (1)	transferease activity, transferring acyl groups other than amino-acyl groups [GO:0016747 molecular_function] (2)	Chlorophenicol acetyltransferase-like domain [IPR023213] (1)	scaffold_2_mRNA_1000.1	C_umshiu_00514_mRNA_6.1	-	
GF0020110	1	1	0	Profilin (2)	actin binding [GO:0003779 molecular_function] (2)	Profilin conserved site [IPR027310] (2); Profilin [IPR005451] (2)	scaffold_1_mRNA_98.1	C_umshiu_00191_mRNA_24.1	-	
GF0020109	1	1	0	Hypothetical protein (2)	Aspartic peptidase domain [IPR021109] (2); Peptidase family A1 domain [IPR033121] (2); Aspartic peptidase A1 family [IPR014611] (2); Xylosidase inhibitor, C-terminal [IPR032799] (2)	scaffold_1_mRNA_98.1	C_umshiu_00191_mRNA_28.1	-		
GF0020108	1	1	0	Aspartic proteinase nepenthesin-2 (2)	aspartic-type endopeptidase activity [GO:0004190 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	scaffold_1_mRNA_98.1	C_umshiu_00129_mRNA_5.1	-		
GF0020107	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_97.1	C_umshiu_00973_mRNA_11.1	-		
GF0020106	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_96.9	C_umshiu_00972_mRNA_8.1	-		
GF0020105	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_96.4	C_umshiu_00973_mRNA_3.1	-		
GF0020103	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_94.9	C_umshiu_00516_mRNA_5.1	-		
GF0020102	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_94.4	C_umshiu_00055_mRNA_29.1	-		
GF0020101	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_94.3	C_umshiu_00055_mRNA_30.1	-		
GF0020100	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0046981 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2); DNA binding [GO:0003577 molecular_function] (2)	Ribonuclease H-like domain [IPR02337] (2); Zinc finger, BED-type [IPR003656] (2); HAT, C-terminal dimerization domain [IPR008896] (2); G1S family [IPR004993] (2)	scaffold_1_mRNA_94.1	C_umshiu_00055_mRNA_32.1	-	
GF0020098	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_93.1	C_umshiu_00055_mRNA_34.1	-		
GF0020097	1	1	0	Hypothetical protein (2)	MULE transposase domain [IPR018289] (2)	scaffold_1_mRNA_93.1	C_umshiu_00055_mRNA_35.1	-		
GF0020095	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_92.3	C_umshiu_00055_mRNA_36.1	-		
GF0020094	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_92.7	C_umshiu_00119_mRNA_23.1	-		
GF0020093	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_91.0	C_umshiu_00068_mRNA_57.1	-		
GF0020092	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_90.7	C_umshiu_00068_mRNA_54.1	-		
GF0020091	1	1	0	Hypothetical protein (2)	Domain of unknown function DUF4283 [IPR025558] (2)	scaffold_1_mRNA_90.1	C_umshiu_00068_mRNA_50.1	-		
GF0020090	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0046983 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2); DNA binding [GO:0003577 molecular_function] (2)	HAT, C-terminal dimerization domain [IPR012337] (2); Zinc finger, BED-type [IPR003656] (2); HAT, C-terminal dimerization domain [IPR008896] (2); G1S family [IPR004993] (2)	scaffold_1_mRNA_90.1	C_umshiu_00068_mRNA_47.1	-	
GF0020089	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_89.6	C_umshiu_00068_mRNA_43.1	-		
GF0020088	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_89.5	C_umshiu_00068_mRNA_42.1	-		
GF0020087	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_89.4	C_umshiu_00068_mRNA_41.1	-		
GF0020086	1	1	0	Novel interactor of JAK long variant (2)	signal transduction [GO:0007165 biological_process] (2)	Domain of unknown function DUF4283 [IPR025558] (2); Ninja family [IPR031307] (2); Jas TPL-binding domain [IPR032308] (2)	scaffold_1_mRNA_88.1	C_umshiu_00068_mRNA_36.1	-	
GF0020085	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0046983 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2); DNA binding [GO:0003577 molecular_function] (2)	HAT, C-terminal dimerization domain [IPR008896] (2)	scaffold_1_mRNA_86.8	C_umshiu_00354_mRNA_6.1	-	
GF0020084	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_86.7	C_umshiu_00068_mRNA_15.1	-		
GF0020083	1	1	0	Hypothetical protein (2)	Zinc finger, BED-type [IPR003656] (2); Zinc finger CH2-type [IPR013087] (1)	scaffold_1_mRNA_86.6	C_umshiu_00068_mRNA_14.1	-		
GF0020082	1	1	0	Hypothetical protein (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_1_mRNA_86.5	C_umshiu_00068_mRNA_13.1	-		
GF0020081	1	1	0	Hypothetical protein (2)	Terpene synthase, N-terminal domain activity [IPR0010333] (2); Terpenoid cyclase/protein prenyltransferase-alpha/torsin [IPR008930] (2)	scaffold_1_mRNA_86.4	C_umshiu_00068_mRNA_12.1	-		
GF0020080	1	1	0	Putative non-LTR retroelement reverse transcriptase (1); Ribonuclease H-like superfamily protein (1)	nucleic acid binding [GO:0003676 molecular_function] (2); metabolic process [GO:0006152 molecular_function] (2); biological_process [2]	Reverse transcriptase-zinc-binding domain [IPR026960] (2); Ribonuclease H-like domain [IPR012337] (2); NAD(P)-binding domain [IPR01640]	scaffold_1_mRNA_86.0	C_umshiu_00331_mRNA_12.1	-	
GF0020079	1	1	0	NAD(P)-binding Rossman-fold superfamily protein isoform 2 (2)	coenzyme binding [GO:0050662 molecular_function] (1); catalytic activity [GO:000824 molecular_function] (1)	NAD(P)-dependent epoxide isomerase [IPR001509] (1)	scaffold_1_mRNA_86.1	C_umshiu_00129_mRNA_16.1	-	
GF0020078	1	1	0	H fold (1); Ribonuclease H (1)	polymeroloyl transferase; Ribonuclease nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_1_mRNA_85.7	C_umshiu_00068_mRNA_6.1	-	
GF0020077	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_84.1	C_umshiu_00129_mRNA_19.1	-		
GF0020075	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_83.4	C_umshiu_00600_mRNA_6.1	-		
GF0020074	1	1	0	Hypothetical protein (2)	intracellular protein transport [GO:0006886 biological_process] (2); binding [GO:0005484 molecular_function] (2); vesicle-mediated transport [GO:0016192 biological_process] (2); membrane coat [GO:0030117 cellular_component] (2)	scaffold_1_mRNA_83.2	C_umshiu_00600_mRNA_4.1	-		
GF0020073	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_83.1	C_umshiu_00600_mRNA_3.1	-		
GF0020072	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_82.7	C_umshiu_00075_mRNA_59.1	-		
GF0020071	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_82.6	C_umshiu_00075_mRNA_58.1	-		

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0020070	1	1	0	Ras-related protein Rab7 (2)	GTP binding [GO:0035525]; molecular function [2]; GTPase activity [GO:0003924 molecular function] (2); signal transduction [GO:0007165 biological process] (1); intracellular [GO:000662 cellular component] (1); intracellular membrane [GO:0006886 biological process] (1); nucleocytoplasmic transport [GO:000913 biological process] (1); small GTPase biological signal transduction [GO:0007264 biological process] (1); membrane [GO:0016020 cellular component] (1); protein transport [GO:0015031 biological process] (1)	Small GT-Pase superfamily, Ras type [IPR020849] (1); Small GT-Pase superfamily, Rho type [IPR003578] (1)	scaffold_1_mRNA_813.1	C_unshiu_00075_mRNA_45.1	-
GF0020069	1	1	0	Hypothetical protein (2)	-	-	-	-	-
GF0020068	1	1	0	Hypothetical protein (2)	-	-	-	-	-
GF0020067	1	1	0	Putative sialoglycan glycosyltransferase 5 (2)	Nucleotide-diphospho-sugar transferases [IPR029044] (2)	scaffold_1_mRNA_78.1	C_unshiu_00129_mRNA_26.1	-	
GF0020066	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_775.1	C_unshiu_00075_mRNA_8.1	-	
GF0020065	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_767.1	C_unshiu_01122_mRNA_13.1	-	
GF0020064	1	1	0	Hypothetical protein (2)	magnesium ion binding [GO:0000287 molecular function] (2); terpene synthase activity [GO:0010333 molecular function] (2); hydrolase activity [GO:0016829 molecular function] (2)	Terpene synthase, metal-binding domain [IPR005630] (2); Isoprenoid synthase domain [IPR008949] (2)	scaffold_1_mRNA_766.1	C_unshiu_01122_mRNA_8.1	-
GF0020062	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_764.1	C_unshiu_01122_mRNA_10.1	-
GF0020060	1	1	0	General transcription factor IIH subunit 4 (2)	ATP-dependent DNA helicase activity [GO:0004003 molecular function] (2); nucleus [GO:0005634 cellular component] (2); core TFIIH complex [GO:0000439 cellular component] (2); nucleotide-excision repair [GO:0006289 biological process] (2)	Transcription factor TFIIH subunit p52/TB2 [IPR004598] (2)	scaffold_1_mRNA_756.1	C_unshiu_01122_mRNA_5.1	-
GF0020059	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_753.1	C_unshiu_00947_mRNA_6.1	-
GF0020058	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_748.1	C_unshiu_00947_mRNA_1.1	-
GF0020055	1	1	0	CBS domain-containing protein CBX5 (2)	-	-	scaffold_1_mRNA_743.1	C_unshiu_01381_mRNA_3.1	-
GF0020054	1	1	0	Hypothetical protein (1); Protein FAR1-RELATED SEQUENCE 5 (1)	nucleic acid binding [GO:0003676 nucleic acid binding] (2); zinc ion binding [GO:0008570 molecular function] (2); regulation of transcription, DNA-templated [GO:0006355 biological process] (2); oxidation-reduction process [GO:0055114 molecular function] (2); nucleophilic attack on donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular function] (1); heme binding [GO:0020037 molecular function] (1); iron ion binding [GO:0005506 molecular function] (1)	MULE transposase domain [IPR018289] (2); Zinc finger, PdZ-type [IPR006564] (2); Zinc finger, SWIM-type [IPR007527] (2); FHY3/FAR1 family type [IPR001878] (2); Cytochrome P450 [IPR001128] (1); FAR1 DNA binding domain [IPR004330] (1)	scaffold_1_mRNA_742.1	C_unshiu_00178_mRNA_37.1	-
GF0020053	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2); zinc ion binding [GO:0008270 molecular function] (2)	Zinc finger, CCHC-type [IPR001878] (2) scaffold_1_mRNA_740.1	C_unshiu_01381_mRNA_4.1	-	
GF0020052	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Zinc finger, H-like domain [IPR012337] (2)	scaffold_1_mRNA_734.1	C_unshiu_00148_mRNA_40.1	-
GF0020051	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular function] (2); sequence-specific DNA binding [GO:0043565 molecular function] (2)	Lambda repressor-like, DNA-binding domain [IPR010982] (2); Cxv1-type helix-turn-helix domain [IPR001387] (2)	scaffold_1_mRNA_718.1	C_unshiu_00148_mRNA_27.1	-
GF0020049	1	1	0	Hypothetical protein (2)	-	DNA mismatch repair protein MutS, N-terminal [IPR010151] (2); mismatch repair protein MutS-like, N-terminal [IPR007695] (2); C-loop containing nucleoside triphosphate hydrolase [IPR027417] (1); DNA mismatch repair protein MutS [IPR007860] (1); DNA mismatch repair protein MutS, core [IPR007696] (1); DNA mismatch repair protein MutS, C-terminal [IPR000432] (1)	-	-	
GF0020048	1	1	0	Hypothetical protein (1); DNA mismatch repair protein Mshe6-2 (1)	mismatch repair [GO:0006298 biological process] (2); mismatch DNA binding [GO:003983 molecular function] (2); ATP binding [GO:0005242 molecular function] (2)	Sulfate transporter 3.4 [IPR0030317] (2); SLC26A-Sulf transporter [IPR001802] (2); STAS domain [IPR002645] (2); SLC26A/Sulf transporter domain [IPR011547] (2); Sulphate anion transporter, conserved site [IPR0018045] (2)	scaffold_1_mRNA_716.1	C_unshiu_00148_mRNA_25.1	-
GF0020044	1	1	0	Putative sulfate transporter 3.4 (2)	membrane [GO:016020 cellular component] (2); secondary active sulfate transmembrane transporter activity [GO:0008271 molecular function] (2); sulfate transporter [GO:0008272 biological process] (2); integral membrane protein [GO:001621 cellular component] (2); transmembrane transport [GO:00055085 biological process] (2); sulfate transmembrane transporter activity [GO:0015116 molecular function] (2); sulfate transmembrane transport [GO:1902358 biological process] (2)	Sulfate transporter 3.4 [IPR0030317] (2); SLC26A-Sulf transporter [IPR001802] (2); STAS domain [IPR002645] (2); SLC26A/Sulf transporter domain [IPR011547] (2); Sulphate anion transporter, conserved site [IPR0018045] (2)	scaffold_1_mRNA_711.1	C_unshiu_00242_mRNA_6.1	-
GF0020043	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_710.1	C_unshiu_00242_mRNA_4.1	-
GF0020042	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_684.1	C_unshiu_00016_mRNA_61.1	-
GF0020041	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_683.1	C_unshiu_00016_mRNA_62.1	-
GF0020040	1	1	0	Protease inhibitor/seed storage lipid transfer protein family protein (2)	Bifunctional inhibitor/plant lipid transfer protein/seed storage helical domain [IPR016140] (2)	scaffold_1_mRNA_680.1	C_unshiu_00016_mRNA_64.1	-	
GF0020038	1	1	0	DUF2921 family protein (1); Hypothetical protein (1)	Protein of unknown function DUF2921 [IPR023119] (2)	scaffold_1_mRNA_665.1	C_unshiu_00016_mRNA_81.1	-	
GF0020037	1	1	0	RNA-binding motif protein; X-linked 2	nucleic acid binding [GO:0003676 molecular function] (2); nucleotide binding [GO:0000166 molecular function] (1)	RNA recognition motif domain [IPR000504] (2); Nucleotide-binding alpha-beta平淡蛋白 [IPR012677] (1)	scaffold_1_mRNA_663.1	C_unshiu_00016_mRNA_83.1	-
GF0020035	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_632.1	C_unshiu_00039_mRNA_14.1	-
GF0020033	1	1	0	Zinc finger (Ran-binding) family protein (2)	zinc ion binding [GO:0008270 molecular function] (2)	Zinc finger, RanBP2-type [IPR001876] (2)	scaffold_1_mRNA_626.1	C_unshiu_00547_mRNA_6.1	-
GF0020032	1	1	0	NADH-cytochrome b5 reductase (2)	oxidoreductase activity [GO:0016491 molecular function] (2); oxidation-reduction process [GO:0055114 biological process] (2)	Flavoprotein pyridine nucleotide cytochrome reductase [IPR001769] (2); Riboflavin synthase-like beta-barrel [IPR017938] (2); NADH/cytochrome b5 reductase (CBR) [IPR001834] (2); Oxidoreductase, NADH-cytochrome b5 reductase [IPR001431] (2); Ferredoxin reductase-type EAD-binding domain [IPR017927] (2); Oxidoreductase, FAD-binding domain [IPR008333] (2)	scaffold_1_mRNA_622.1	C_unshiu_00547_mRNA_9.1	-
GF0020031	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_61.1	C_unshiu_00144_mRNA_39.1	-
GF0020030	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_599.1	C_unshiu_00203_mRNA_39.1	-
GF0020029	1	1	0	Putative chaperon P13.9 (2)	unfolded protein binding [GO:0031082 molecular function] (2); heat shock protein binding [GO:0031072 molecular function] (2)	Heat shock protein DnaJ, cysteine-rich domain [IPR001305] (2)	scaffold_1_mRNA_593.1	C_unshiu_00203_mRNA_31.1	-
GF0020028	1	1	0	Hypothetical protein (2)	structural constituent of ribosome [GO:0003735 molecular function] (2); translation [GO:0006412 biological process] (2); intracellular [GO:0005622 cellular component] (2); ribosome [GO:0005849 molecular component] (2)	Ribosomal protein L36 [IPR000473] (2)	scaffold_1_mRNA_583.1	C_unshiu_00203_mRNA_21.1	-
GF0020027	1	1	0	Hypothetical protein (2)	tRNA splicing, via endonucleolytic cleavage and ligation [GO:0006388 biological process] (2); tRNA splicing, via endonucleolytic cleavage, part 1 [GO:0006389 biological process] (2)	Protein of unknown function DUFI247, plant [IPR004158] (2)	scaffold_1_mRNA_580.1	C_unshiu_00203_mRNA_18.1	-
GF0020026	1	1	0	RNA 2'-phosphotransferase isoform 1 (2)	tRNA splicing, via endonucleolytic cleavage and ligation [GO:0006388 biological process] (2); tRNA splicing, via endonucleolytic cleavage, part 1 [GO:0006389 biological process] (2)	Phosphotransferase KptIa/TptI [IPR002745] (2)	scaffold_1_mRNA_573.1	C_unshiu_00203_mRNA_9.1	-
GF0020023	1	1	0	Hypothetical protein (2)	protein phosphorylation [GO:0006468 biological process] (2); protein kinase activity [GO:0004672 molecular function] (2)	Protein kinase-like domain [IPR011009] (2); Serine-threonine/tyrosine-protein kinase catalytic domain [IPR001245] (1)	scaffold_1_mRNA_537.1	C_unshiu_00572_mRNA_2.1	-
GF0020022	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_536.1	C_unshiu_00572_mRNA_3.1	-
GF0020021	1	1	0	Hypothetical protein (2)	protein phosphorylation [GO:0006468 biological process] (2); protein kinase activity [GO:0004672 molecular function] (2)	Serine-threonine/tyrosine-protein kinase catalytic domain [IPR001245] (1); Serine-threonine/tyrosine-protein kinase catalytic domain [IPR001245] (1)	scaffold_1_mRNA_535.1	C_unshiu_00572_mRNA_4.1	-
GF0020020	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_533.1	C_unshiu_00572_mRNA_6.1	-
GF0020019	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_532.1	C_unshiu_00572_mRNA_8.1	-
GF0020018	1	1	0	Lectin (2)	carbohydrate binding [GO:0030246 molecular function] (2)	Concanavalin A-like lectin/phagocytosis domain [IPR013230] (2); Legume lectin domain [IPR001220] (2); Legume lectin [IPR016363] (1); Lectin [IPR016363] (1)	scaffold_1_mRNA_521.1	C_unshiu_00572_mRNA_19.1	-

ID	Num. in <i>C. clementine</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0020017	1	1	0	Putative yeast6 (1); Hypothetical protein (1)	Uncharacterised protein family Ycf36 [IPR009631] (2); Protein of unknown function DUF778 [IPR008496] (1); EF-hand domain pair [IPR011992] (2); EF-hand, 1, calcium-binding site [IPR018247] (2); EF-hand domain [IPR020485] (2)	scaffold_1_mRNA_505.1	C_unshiu_00055_mRNA_4.1	-	-
GF0020016	1	1	0	Calcineurin B-like protein 10 (2)	calcium ion binding [GO:0005509] (2); molecular_function [2]	scaffold_1_mRNA_502.1	C_unshiu_00055_mRNA_6.1	-	-
GF0020012	1	1	0	NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial (2)	oxidation-reduction process [GO:005114 biological_process] (2); iron-sulfur cluster binding [GO:005136] (2); molecular_function [2]	NADH:ubiquinone oxidoreductase-like, 20kDa subunit [IPR006137] (2)	scaffold_1_mRNA_493.1	C_unshiu_00055_mRNA_17.1	-
GF0020011	1	1	0	Hypothetical protein (2)	[GO:0016779 molecular_function] (2); biological_process [GO:0003123] (2)	Protein of unknown function DUF1764, eukaryotic [IPR013885] (2)	scaffold_1_mRNA_491.1	C_unshiu_00055_mRNA_19.1	-
GF0020010	1	1	0	DUF1764 domain protein (2)	[GO:0016779 molecular_function] (2)	Protein of unknown function DUF1764, eukaryotic [IPR013885] (2)	scaffold_1_mRNA_487.1	C_unshiu_00055_mRNA_24.1	-
GF0020006	1	1	0	Hypothetical protein (2)	nucleus [GO:0005634] (2); RNA binding [GO:0003723 molecular_function] (2); nucleotidyltransferase activity [GO:0016779 molecular_function] (2); biological_process [GO:0003123] (2)	adenylyltransferase activity [GO:0004652] (2); molecular_function [2]	scaffold_1_mRNA_459.1	C_unshiu_00006_mRNA_25.1	-
GF0020005	1	1	0	Poly(A) polymerase 1 isoform 1 (2)	Poly(A) polymerase [IPR014492] (2); Nucleotidyltransferase, class I, C-terminal-like [IPR011068] (2); Poly(A) polymerase, RNA-binding domain [IPR007010] (2); Polymerase, nucleotidyl transferase domain [IPR025934] (2); Poly(A) polymerase, central domain [IPR007012] (2)	Poly(A) polymerase, RNA-binding domain [IPR0014492] (2); Nucleotidyltransferase, class I, C-terminal-like [IPR011068] (2); Polymerase, nucleotidyl transferase domain [IPR025934] (2); Poly(A) polymerase, central domain [IPR007012] (2)	scaffold_1_mRNA_456.1	C_unshiu_00006_mRNA_28.1	-
GF0020004	1	1	0	Hypothetical protein (2)	rRNA processing [GO:0006364] (2); biological_process [2]	Endoribonuclease YbeY [IPR002036] (2)	scaffold_1_mRNA_455.1	C_unshiu_00006_mRNA_29.1	-
GF0020003	1	1	0	Hypothetical protein (2)	metalloendopeptidase activity [GO:0004222 molecular_function] (2)	Metalloendopeptidase catalytic domain, predicted [IPR023091] (2)	scaffold_1_mRNA_454.1	C_unshiu_00006_mRNA_32.1	-
GF0020002	1	1	0	Receptor-like protein kinase HSL1 (2)	protein phosphorylation [GO:0006468] (2); protein kinase activity [GO:0004672] (2); molecular_function [2]; ATP binding [GO:0005524 molecular_function] (2)	Protein kinase domain [IPR00719] (2); Leucine-rich repeat, typical subtype [IPR003591] (2); Leucine-rich repeat, atypical subtype [IPR023675] (2); Protein kinase-like domain [IPR000009] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); Protein kinase, ATP binding site [IPR017441] (2); Serine/threonine-kinase, active site [IPR008271] (2); Serine/threonine-dual specificity protein kinase, catalytic domain [IPR0022590] (1)	scaffold_1_mRNA_452.1	C_unshiu_00006_mRNA_34.1	-
GF0020001	1	1	0	60S ribosomal protein L36 (2)	ribosome [GO:0005840] (2); structural constituent of ribosome [GO:0003735] (2); intracellular [GO:0005622 cellular_component] (2); translation [GO:0006412] (2); biological_process [2]	Ribosomal protein L36e [IPR000509] (2)	scaffold_1_mRNA_439.1	C_unshiu_00006_mRNA_51.1	-
GF0020000	1	1	0	Hypothetical protein (2)	[GO:0006952] (1)	NONRESPONDING TO OXYLIPINS 2 [IPR033252] (1)	scaffold_1_mRNA_433.1	C_unshiu_00006_mRNA_57.1	-
GF0019999	1	1	0	Hypothetical protein (2)	defense response [GO:0006952] (2); biological_process [1]	Peptidyl-tRNA hydrolase, II domain [IPR023476] (2); Peptidyl-tRNA hydrolase, PTH2 [IPR002833] (2)	scaffold_1_mRNA_426.1	C_unshiu_00006_mRNA_63.1	-
GF0019998	1	1	0	Peptidyl-tRNA hydrolase II (PTH2)	aminoacyl-tRNA hydrolase activity [GO:0004045 molecular_function] (2)	Ser/Asn hydrolase-type esterase domain [IPR013830] (2); GDSL lipase-esterase domain [IPR01087] (2)	scaffold_1_mRNA_425.1	C_unshiu_00006_mRNA_64.1	-
GF0019997	1	1	0	SWIM zinc finger protein/MAP kinase kinase kinase (Makplk), putative (1); SWIM zinc finger family protein / mitogen-activated protein kinase kinase-related, putative (1)	Zinc ion binding [IPR008270] (2); molecular_function [2]; protein binding [GO:0005515 molecular_function] (2)	Zinc finger, SWIM-type [IPR007527] (2); Zinc finger, RING/FYVE/PHD-type [IPR001341] (2); Zinc finger, RING-type [IPR001341]	scaffold_1_mRNA_424.1	C_unshiu_00006_mRNA_65.1	-
GF0019996	1	1	0	SGNH hydrolase-type esterase	hydrolase activity, acting on ester bonds [GO:0016788 molecular_function] (2)	SGNH hydrolase-type esterase domain [IPR013830] (2); GDSL lipase-esterase domain [IPR01087] (2)	scaffold_1_mRNA_423.1	C_unshiu_00006_mRNA_67.1	-
GF0019995	1	1	0	Chromosome condensation regulator	RCC1 repeat protein [2]	Regulator of chromosome condensation 1/beta-lactamase-inhibitor protein II [IPR00991] (2); Regulator of chromosome condensation, RCC1 [IPR000408] (2)	scaffold_1_mRNA_422.1	C_unshiu_00006_mRNA_68.1	-
GF0019994	1	1	0	Nuclear pore complex protein Nup85 (2)	[GO:0005114 biological_process] (2)	Nucleoporin Nup85-like [IPR011502] (2)	scaffold_1_mRNA_421.1	C_unshiu_00006_mRNA_69.1	-
GF0019993	1	1	0	Hypothetical protein (2)	[GO:0006952] (1)	Ankyrin repeat-containing domain [IPR020683] (2); Ankyrin repeat [IPR02110] (2); PGG domain [IPR026651] (1)	scaffold_1_mRNA_421.1	C_unshiu_00003_mRNA_153.1	-
GF0019992	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2)	Ankyrin repeat-containing domain [IPR020683] (2); Tocopherol cyclase [IPR025893] (2)	scaffold_1_mRNA_408.1	C_unshiu_00006_mRNA_86.1	-
GF0019991	1	1	0	Hypothetical protein (2)	tocopherol cyclase activity [GO:0009974 molecular_function] (2)	Tocopherol cyclase [IPR025893] (2)	scaffold_1_mRNA_405.1	C_unshiu_00006_mRNA_88.1	-
GF0019989	1	1	0	Hypothetical protein (2)	protoxylanase [GO:0006508 biological_process] (1); serine-type peptidase activity [GO:0008236 molecular_function] (1)	Alpha/Beta hydrolase fold [IPR020685] (2); Alpha/Beta hydrolase fold-5 [IPR029059] (1); Peptidase S9, prolyl oligopeptidase, catalytic domain [IPR00175] (1)	scaffold_1_mRNA_395.1	C_unshiu_00006_mRNA_97.1	-
GF0019988	1	1	0	Putative hydrolase YtaP (2)	[GO:0005515 biological_process] (2)	GAT domain [IPR004152] (2); ENTH/VHS [IPR008942] (2); VHS domain [IPR002014] (2); VHS subgroup [IPR018205] (1)	scaffold_1_mRNA_388.1	C_unshiu_00006_mRNA_103.1	-
GF0019987	1	1	0	Hypothetical protein (2)	intracellular [GO:0005622 cellular_component] (2); cellular_component [2]; oxidation-reduction process [GO:0005506 molecular_function] (2)	GAT domain [IPR004152] (2); ENTH/VHS [IPR008942] (2); VHS domain [IPR002014] (2); VHS subgroup [IPR018205] (1)	scaffold_1_mRNA_386.2	C_unshiu_00006_mRNA_105.1	-
GF0019986	1	1	0	Putative VIIIS/GAT domain containing family protein (2)	protein transmembrane transport [GO:0006888 biological_process] (2)	Cytochrome P450 [IPR00128] (2); Cytochrome P450, conserved site [IPR017972] (2)	scaffold_1_mRNA_385.1	C_unshiu_00006_mRNA_106.1	-
GF0019985	1	1	0	Hypothetical protein (2)	integral component of membrane [GO:0005621 cellular_component] (2); membrane binding [GO:0005621 molecular_function] (2)	Mpv17/PMP22 [IPR007248] (2)	scaffold_1_mRNA_371.1	C_unshiu_00006_mRNA_121.1	-
GF0019984	1	1	0	Hypothetical protein (2)	[GO:0005622 cellular_component] (2); cellular_component [2]; oxidation-reduction process [GO:0005506 molecular_function] (2)	Cytochrome P450 [IPR00128] (2); Cytochrome P450, conserved site [IPR017972] (2)	scaffold_1_mRNA_371.1	C_unshiu_00003_mRNA_147.1	-
GF0019983	1	1	0	Hypothetical protein (1); Leucine-rich repeat extensin-like protein 7 (1)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (1)	scaffold_1_mRNA_3601.1	C_unshiu_01269_mRNA_5.1	-
GF0019982	1	1	0	Hypothetical protein (1); Zinc finger CCHC domain-containing protein 16 (1)	metal ion binding [GO:0046872 molecular_function] (2)	Zinc finger, CCHC-type [IPR00571] (2)	scaffold_1_mRNA_3600.1	C_unshiu_01269_mRNA_6.1	-
GF0019981	1	1	0	Hypothetical protein (2)	protein kinase activity [GO:0004672 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2)	Protein kinase-like domain [IPR011009] (2); Protein kinase domain [IPR000719] (2)	scaffold_1_mRNA_3599.1	C_unshiu_01269_mRNA_7.1	-
GF0019979	1	1	0	Hypothetical protein (2)	[GO:0005515 biological_process] (2)	scaffold_1_mRNA_3592.1	C_unshiu_00591_mRNA_12.1	-	
GF0019978	1	1	0	Zinc/RING finger 3 (2)	protein binding [GO:0005515 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (2)	Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Zinc finger, RING-type [IPR001841] (2)	scaffold_1_mRNA_3586.1	C_unshiu_00591_mRNA_19.1	-
GF0019968	1	1	0	Low temperature and salt response protein family member 1 (2)	integral component of membrane [GO:0016021 cellular_component] (2)	Proteolipid membrane potential modulator [IPR006012] (2)	scaffold_1_mRNA_3513.1	C_unshiu_01195_mRNA_3.1	-
GF0019966	1	1	0	Hydroxycinnamoyl-CoA; shikimate/quinate hydroxycinnamoyl transferase (1); shikimate/quinate hydroxycinnamoyl transferase (1)	transferring activity, transferring acyl groups other than amino-acyl groups [GO:0016747 molecular_function] (2)	Transferring [IPR003480] (2); Shikimate/quinate acetyltransferase-like domain [IPR0223213] (1)	scaffold_1_mRNA_3507.1	C_unshiu_01195_mRNA_8.1	-
GF0019963	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1); protein binding [GO:0005515 molecular_function] (1)	Kelch-type beta-propeller [IPR015915] (1); Ribonuclease-like domain [IPR012337] (1)	scaffold_1_mRNA_3494.1	C_unshiu_01447_mRNA_7.1	-
GF0019962	1	1	0	Hypothetical protein (1); Penicillopeptide repeat-containing family protein 1 (2)	protein binding [GO:0005515 molecular_function] (2)	Zinc finger, RING/FYVE/PHD-type [IPR013083] (2); Penicillopeptide repeat [IPR02885] (2); Tetra-tricopeptide-like helical domain [IPR011990] (2)	scaffold_1_mRNA_3487.1	C_unshiu_00562_mRNA_3.1	-
GF0019960	1	1	0	Hydroxycinnamoyl-CoA transferase activity, transferring acyl groups other than amino-acyl groups [GO:0016747 molecular_function] (2)	transferring activity, transferring acyl groups other than amino-acyl groups [GO:0016747 molecular_function] (2)	Tetra-tricopeptide-like helical domain [IPR011990] (2); Tetra-tricopeptide repeat-containing domain [IPR013026] (2); Transferring peptide repeat 1 [IPR001440] (1); NAD(P)-binding domain [IPR016040] (2); NAD-dependent epimerase/dehydratase, N-terminal [IPR001509] (1); NAD-dependent epimerase/dehydratase domain [IPR023213] (1)	scaffold_1_mRNA_3461.1	C_unshiu_00348_mRNA_4.1	-
GF0019959	1	1	0	Tetratricopeptide repeat protein 1 (2)	protein binding [GO:0005515 molecular_function] (2)	Tetratricopeptide repeat 1 [IPR001440] (1); Transferring peptide repeat 1 [IPR001440] (1); NAD(P)-binding domain [IPR016040] (2); NAD-dependent epimerase/dehydratase, N-terminal [IPR001509] (1); NAD-dependent epimerase/dehydratase domain [IPR023213] (1)	scaffold_1_mRNA_3460.1	C_unshiu_00348_mRNA_5.1	-
GF0019957	1	1	0	Cinnamoyl-CoA reductase 1 (2)	coenzyme binding [GO:0050662 molecular_function] (2); catalytic activity [GO:0005824 molecular_function] (2)	epimerase/dehydratase, N-terminal [IPR001509] (1); NAD-dependent epimerase/dehydratase domain [IPR023213] (1)	scaffold_1_mRNA_3457.1	C_unshiu_01142_mRNA_1.1	-
GF0019951	1	1	0	Putative blight-associated protein p12 (2)	[GO:0005622 molecular_function] (2)	Expansin/pullen allergen, DPB1 domain [IPR007112] (2); RbA-like protein, double-beta-barrel domain [IPR009009] (1); RbA-like double-beta-barrel domain [IPR009009] (1)	scaffold_1_mRNA_3431.1	C_unshiu_00348_mRNA_30.1	-

ID	Num in <i>C. clementinae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0019950	1	1	0	Cytochrome P450 (1); Cytochrome P450, 0 family 81, subfamily D, polypeptide 8, putative (1)	oxidation-reduction process [GO:0055114 biological_process] (2); oxoredoxinase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 biological_process] (2); electron binding [GO:0020914 electron_moving_function] (2); ion ion binding [GO:0005506 molecular_function] (2)	Cytochrome P450, conserved site [IPR017972] (2); Cytochrome P450, E-class, group 1 [IPR024011] (2); Cytochrome P450 [IPR001128] (2)	scaffold_1_mRNA_3415.1	<i>C. unshiu</i> _00237_mRNA_15.1	-
GF0019947	1	1	0	DUF1795-like photosystem II reaction center PsbP family protein (2)	photosystem II oxygen evolving complex [GO:0009545 cellular_component] (1); photosystem II [GO:0009523 cellular_complement] (1); photosynthesis [GO:0009523 biological_process] (1); calcium ion binding [GO:0005509 molecular_function] (1); extrinsic component of membrane [GO:0019898 cellular_component] (1)	Mogl/PsbP, alpha/beta/alpha sandwich [IPR016123] (2); PsbP family [IPR002683] (1)	scaffold_1_mRNA_339.1	<i>C. unshiu</i> _00833_mRNA_4.1	-
GF0019946	1	1	0	Hypothetical protein (2)	carbohydrate metabolic process [GO:000975 biological_process] (2); biosynthesis of carbohydrate [GO:0009553 glycosylated_O-glycosidic_compounds] (2); molecular_function] (2)	Concanavalin A-like lectin/glucanase domain [IPR013520] (2); Glycoside hydrolase family 16 [IPR000757] (2)	scaffold_1_mRNA_3384.1	<i>C. unshiu</i> _02081_mRNA_6.1	-
GF0019945	1	1	0	CTC-interacting domain 5, putative isoform 1 (2)	protein binding [GO:0005515 molecular_function] (2); apolast [GO:004806 cellular_component] (2); cellular_complement] (2); cellular glucan molecule binding [GO:0009553 biological_process] (2); hydrolase activity, lyase-degrading O-glycosyl compounds [GO:0004553 molecular_function] (2); cell wall [GO:0005618 cellular_component] (2); carbohydrate metabolic process [GO:000975 biological_process] (2); sylloglucanase/glycosidase transferase activity [GO:0016762 molecular_function] (2)	UBA-like [IPR009060] (2); Ubiquitin system component Cue [IPR003892] (2)	scaffold_1_mRNA_338.1	<i>C. unshiu</i> _00833_mRNA_5.1	-
GF0019943	1	1	0	Hypothetical protein (1); Probable glycan endo-beta-N-acetylglucosaminidase/hydrolase protein 23 (1)	biological_process] (2); hydrolase activity, lyase-degrading O-glycosyl compounds [GO:0004553 molecular_function] (2); cell wall [GO:0005618 cellular_component] (2); carbohydrate metabolic process [GO:000975 biological_process] (2); sylloglucanase/glycosidase transferase activity [GO:0016762 molecular_function] (2)	Glycoside hydrolase family 16 [IPR000757] (2); Nucleotide-diphospho-sugaryde-endohydrolase [IPR000569] (2); N-glycan endo-transglycosidase, C-terminal [IPR010713] (2); Glycoside hydrolase, family 16, active site [IPR008263] (2); N-acetylgalactosamine A-like lectin/glucanase domain [IPR013320] (2)	scaffold_1_mRNA_3375.1	<i>C. unshiu</i> _02828_mRNA_3.1	-
GF0019941	1	1	0	Hypothetical protein (2)	DNA replication [GO:0006260 biological_process] (2); DNA recombination [GO:0006310 biological_process] (2); DNA repair [GO:0006281 biological_process] (2)	DNA-binding pseudobarrel domain [IPR015300] (1)	scaffold_1_mRNA_3357.1	<i>C. unshiu</i> _00347_mRNA_30.1	-
GF0019940	1	1	0	Hypothetical protein (2)	Pre-mRNA splicing Ppp18-interacting factor [IPR021715] (2)	scaffold_1_mRNA_3355.1	<i>C. unshiu</i> _00347_mRNA_29.1	-	
GF0019937	1	1	0	Hypothetical protein (2)	scRNA	scaffold_1_mRNA_3350.1	<i>C. unshiu</i> _00347_mRNA_26.1	-	
GF0019936	1	1	0	Replication protein A 32 kDa subunit (2)	OB-fold nucleic acid binding domain, AA-RNA synthetase-type [IPR004365] (2); Replication Factor A protein 2 [IPR014646] (2); Replication protein A, Winged helix-turn-helix DNA-binding domain [IPR011991] (2); Nuclear acid-binding, OB-fold [IPR012340] (2)	scaffold_1_mRNA_3342.2	<i>C. unshiu</i> _00347_mRNA_18.2	-	
GF0019935	1	1	0	Hypothetical protein (2)	integral component of membrane [GO:0001021 cellular_complement] (2); phosphotransferase activity [GO:0008459 molecular_function] (1); transferase activity, transferring alky or aryl (other than methyl) groups [GO:0016765 molecular_function] (1)	scRNA	scaffold_1_mRNA_3339.1	<i>C. unshiu</i> _00347_mRNA_15.1	-
GF0019933	1	1	0	Homogenisate phytolytransferase (2)	UbiA prenyltransferase family [IPR000537] (2)	scaffold_1_mRNA_3329.2	<i>C. unshiu</i> _00347_mRNA_6.1	-	
GF0019932	1	1	0	Hypothetical protein (2)	scRNA	scaffold_1_mRNA_3325.1	<i>C. unshiu</i> _00347_mRNA_3.1	-	
GF0019930	1	1	0	Hypothetical protein (2)	Peptidase S8/S53 domain [IPR000209] (2); Pentatricopeptide repeat [IPR02885] (2)	scaffold_1_mRNA_3316.1	<i>C. unshiu</i> _00105_mRNA_10.1	-	
GF0019929	1	1	0	Pentatricopeptide repeat-containing protein, putative isoform 2 (1)	Pentatricopeptide repeat [IPR0005508 biological_process] (2)	scaffold_1_mRNA_3304.1	<i>C. unshiu</i> _00105_mRNA_21.1	-	
GF0019927	1	1	0	Pentatricopeptide (2)	protein binding [GO:0005515 molecular_function] (1)	Pentatricopeptide repeat [IPR02885] (2); Tetraproticopeptide-like helical domain [IPR011990] (1)	scaffold_1_mRNA_3295.1	<i>C. unshiu</i> _00105_mRNA_30.1	-
GF0019924	1	1	0	Mitotic-spindle organizing protein 1B (2)	gamma-tubulin complex localization [GO:003566 biological_process] (1); gamma-tubulin ring complex [GO:0008274 cellular_component] (1)	Mitotic-spindle organizing protein 1 [IPR022214] (1); Protein of unknown function DUF3743 [IPR022214] (1)	scaffold_1_mRNA_3285.1	<i>C. unshiu</i> _00105_mRNA_38.1	-
GF0019923	1	1	0	Hypothetical protein (2)	ATPase activity, coupled to transmembrane movement of substances [GO:0006262 biological_process] (2); transmembrane transport [GO:0005509 biological_process] (2); ATP binding [GO:0005524 molecular_function] (2); integral component of membrane [GO:0016021 cellular_component] (2); transport [GO:0006810 biological_process] (2)	ABC transporter type I, transmembrane domain [IPR011527] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1)	scaffold_1_mRNA_3277.1	<i>C. unshiu</i> _00105_mRNA_46.1	-
GF0019922	1	1	0	Hypothetical protein (2)	Protein of unknown function DUF872, transmembrane [IPR008590] (2)	scaffold_1_mRNA_3260.1	<i>C. unshiu</i> _00131_mRNA_24.1	-	
GF0019921	1	1	0	C2orf50 like (2)	scRNA	scaffold_1_mRNA_3252.1	<i>C. unshiu</i> _00131_mRNA_32.1	-	
GF0019919	1	1	0	Hypothetical protein (2)	Armadillo-like helical [IPR011989] (2); Armadillo-type fold [IPR016024] (2); HEAT repeat associated with sister chromatid cohesion protein [IPR026003] (1); HEAT repeat [IPR000357] (1); M1- associated protein TORTIFOLIA1/SPIRAL2-like [IPR033337] (1)	scaffold_1_mRNA_323.1	<i>C. unshiu</i> _00309_mRNA_9.1	-	
GF0019918	1	1	0	Hypothetical protein (2)	scRNA	scaffold_1_mRNA_3226.1	<i>C. unshiu</i> _00131_mRNA_58.1	-	
GF0019917	1	1	0	Squalene monooxygenase (2)	FAD:NAD(P)-binding domain [IPR023753] (2); Squalene epoxidase [IPR013698] (2)	scaffold_1_mRNA_3225.1	<i>C. unshiu</i> _00583_mRNA_16.1	-	
GF0019913	1	1	0	Organic cation/carnitine transporter 7 (2)	Major facilitator, sugar transporter-like [IPR005828] (2); Major facilitator superfamily domain [IPR020846] (2)	scaffold_1_mRNA_3204.1	<i>C. unshiu</i> _00315_mRNA_15.1	-	
GF0019912	1	1	0	Synaptic vesicle 2-related protein (2)	Major facilitator, sugar transporter-like [IPR005828] (2); Major facilitator superfamily domain [IPR020846] (2)	scaffold_1_mRNA_3202.1	<i>C. unshiu</i> _00315_mRNA_13.1	-	
GF0019909	1	1	0	Glucosidase II beta subunit-like protein (2)	Manose-6-phosphate receptor binding domain [IPR009911] (2); Glucosidase II beta subunit-like [IPR012913] (2)	scaffold_1_mRNA_3197.1	<i>C. unshiu</i> _00066_mRNA_3.1	-	
GF0019908	1	1	0	Hypothetical protein (2)	Leucine-rich repeat domain, L-domain-like [IPR032675] (2)	scaffold_1_mRNA_3194.1	<i>C. unshiu</i> _00066_mRNA_6.1	-	
GF0019900	1	1	0	Chloroplast photosystem II subunit X (2)	Photosystem II PsbX [IPR009518] (2)	scaffold_1_mRNA_3093.1	<i>C. unshiu</i> _00498_mRNA_13.1	-	
GF0019896	1	1	0	Pentatricopeptide repeat-containing protein 1 (2)	Pentatricopeptide repeat [IPR002885] (2); Tetraproticopeptide-like helical domain [IPR011990] (2)	scaffold_1_mRNA_3059.1	<i>C. unshiu</i> _00150_mRNA_30.1	-	
GF0019895	1	1	0	Putative nucleoredoxin 1 (2)	Thioredoxin-like fold [IPR012336] (2); DC1 [IPR004146] (1); C1-like DC1 [IPR11424] (1); Thioredoxin domain [IPR013766] (1); Ricin B, lectin domain [IPR000772] (1)	scaffold_1_mRNA_3056.1	<i>C. unshiu</i> _00150_mRNA_27.1	-	
GF0019894	1	1	0	Hypothetical protein (2)	FAD:NAD(P)-binding domain [IPR023753] (2)	scaffold_1_mRNA_304.1	<i>C. unshiu</i> _01113_mRNA_12.1	-	
GF0019893	1	1	0	Monofunctional lysine-ketoglutarate reductase 1 (2)	Alanine, dehydrogenase/pyridine nucleotide transhydrogenase, N-terminal [IPR007886] (2); Alanine dehydrogenase/pyridine nucleotide transhydrogenase, NAD(H)-binding domain [IPR007698] (2)	scaffold_1_mRNA_3033.1	<i>C. unshiu</i> _00150_mRNA_2.1	-	
GF0019892	1	1	0	Invertase/pectin methylesterase inhibitor 0 family protein (1); Pectinesterase inhibitor (1)	Pectinesterase inhibitor domain [IPR006501] (2); Pectinesterase inhibitor, plant [IPR034086] (1)	scaffold_1_mRNA_3031.1	<i>C. unshiu</i> _02111_mRNA_1.1	-	

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GF0019891	1	1	0	Monoxygenase family protein (2)	oxidoreductase activity [GO:0016491]; molecular function [2]; oxidation-reduction process [GO:0055114]; biological process [2]	FAD/NAD(P)binding domain [IPR023753] (2); microtubule binding [GO:0008017]; molecular function [2]; microtubule motor activity [GO:0003777]; molecular function [2]; membrane-bounding process [GO:00057018]; biological process [2]; ATP binding [GO:0005524]; molecular function [2]	scaffold_1_mRNA_302.1	C_unshiu_01113_mRNA_11.1	-	
GF0019890	1	1	0	Kinesin-like protein NACK2 (2)	microtubule binding [GO:0008017]; molecular function [2]; microtubule motor activity [GO:0003777]; molecular function [2]; membrane-bounding process [GO:00057018]; biological process [2]; ATP binding [GO:0005524]; molecular function [2]	Kinesin motor domain, conserved site [IPR021821] (2); Kinesin motor domain [IPR021820] (2); P-loop containing nucleoside triphosphate hydrolase family 1 [IPR0001296] (2); sucrose synthase [IPR0003681] (2)	scaffold_1_mRNA_3013.1	C_unshiu_00341_mRNA_13.1	-	
GF0019889	1	1	0	Sucrose synthase (2)	sucrose metabolic process [GO:0005985]; biological process [2]; sucrose synthase activity [GO:0016157]; molecular function [2]	Sucrose synthase [IPR0001292] (2); Glucosidase transferase, family 1 [IPR0001296] (2); Sucrose synthase [IPR0003681] (2)	scaffold_1_mRNA_3012.4	C_unshiu_00341_mRNA_12.3	-	
GF0019888	1	1	0	DnaJ like subfamily C member 28 (1); Hypothetical protein (1)	DnaJ like subfamily C member 28 (1); Hypothetical protein (1)	DnaJ homologue, subfamily C, member 28, conserved domain [IPR018961] (1)	scaffold_1_mRNA_3011.1	C_unshiu_00341_mRNA_11.1	-	
GF0019887	1	1	0	Hypothetical protein (1); Mitochondrial ferredoxin 2 (1)	cysteine residue modification [GO:0004737]; cellular component [2]; ATP binding [GO:0005524]; molecular function [2]; positive regulation of superoxide dismutase activity [GO:0016171]; biological process [2]; transition metal ion binding [GO:00057019]; molecular function [2]; protein folding [GO:0006457]; biological process [2]	Beta-graft domain [IPR012675] (1)	scaffold_1_mRNA_3005.1	C_unshiu_00341_mRNA_6.1	-	
GF0019885	1	1	0	20 kDa chaperonin, chloroplastic (2)	20 kDa chaperonin, chloroplastic (2)	GroE chaperonin family [IPR020818]; Chaperonin GroES, conserved site [IPR018369] (2); Chaperonin Cpn20 [IPR017416] (2)	scaffold_1_mRNA_2995.1	C_unshiu_00047_mRNA_91.1	-	
GF0019884	1	1	0	Ethylene-responsive transcription factor ERF018 (2)	Ethylene-responsive transcription factor activity, sequence-specific DNA binding [GO:0006508]; molecular function [2]; regulation of transcription, DNA-templated [GO:0006355]; biological process [2]	DNA-binding domain [IPR016177] (2); AP2/ERF domain [IPR001471] (2)	scaffold_1_mRNA_2994.1	C_unshiu_00047_mRNA_90.1	-	
GF0019883	1	1	0	Hypothetical protein (2)	-	PA domain [IPR003137] (2); Peptidase S8/S33 domain [IPR0002094] (2); Peptidase S8, subtilisin-related [IPR015340] (2); Peptidase S8 protease inhibitor [IPR010259] (1); Cysteine-like catalytic domain [IPR034197] (1); Protease propeptides/proteinase inhibitor I9 [IPR009020] (1)	scaffold_1_mRNA_297.1	C_unshiu_01113_mRNA_3.1	-	
GF0019882	1	1	0	Subtilisin-like serine protease (2)	Subtilisin-like serine protease (2)	NB-ARC [IPR002182] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (1)	scaffold_1_mRNA_2967.1	C_unshiu_00047_mRNA_62.1	-	
GF0019881	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_296.1	C_unshiu_01113_mRNA_4.1	-		
GF0019880	1	1	0	Hypothetical protein (1); Rho guanine nucleotide exchange factor 7, putative (1)	-	scaffold_1_mRNA_295.1	C_unshiu_00047_mRNA_52.1	-		
GF0019879	1	1	0	OBP3-responsive gene 4 isoform 2 (2)	-	scaffold_1_mRNA_295.1	C_unshiu_00047_mRNA_51.1	-		
GF0019878	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_295.1	C_unshiu_01113_mRNA_5.1	-		
GF0019875	1	1	0	NB-ARC domain disease resistance protein (1); NB-ARC domain-containing disease resistance protein (1)	NB-ARC domain disease resistance protein (1); NB-ARC domain-containing disease resistance protein (1)	ADP binding [GO:0043531]; molecular function [2]	NB-ARC [IPR002182] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (1)	scaffold_1_mRNA_2933.1	C_unshiu_00047_mRNA_27.1	-
GF0019874	1	1	0	Hypothetical protein (2)	-	Sodium/calciun exchanger exchanger component [IPR0016021]; integral component of membrane [GO:0001621]; cellular component [2]; calcium ion transport [GO:0006816]; biological process [2]; calcium/calmodulin-dependent activity [GO:00015369]; molecular function [1]	scaffold_1_mRNA_2926.1	C_unshiu_00047_mRNA_18.1	-	
GF0019873	1	1	0	Hypothetical protein (2)	-	Peptidase S8/S33 domain [IPR000209]; Peptidase S8, subtilisin-related [IPR015500] (1)	scaffold_1_mRNA_2917.1	C_unshiu_00047_mRNA_9.1	-	
GF0019872	1	1	0	Hypothetical protein (2)	-	Endonuclease/exonuclease phosphatase [IPR005135] (2)	scaffold_1_mRNA_2911.1	C_unshiu_01542_mRNA_6.1	-	
GF0019870	1	1	0	Non-LTR reverse transcriptase (1); Hypothetical protein (1)	Non-LTR reverse transcriptase (1); Hypothetical protein (1)	Domain of unknown function DUF2431 [IPR019446] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR29063] (2)	scaffold_1_mRNA_2909.1	C_unshiu_01542_mRNA_2.1	-	
GF0019869	1	1	0	DUF2431 domain protein 1; Hypothetical protein (1)	DUF2431 domain protein 1; Hypothetical protein (1)	Domain of unknown function DUF2431 [IPR019446] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR29063] (2)	scaffold_1_mRNA_2907.1	C_unshiu_00934_mRNA_13.1	-	
GF0019868	1	1	0	Hypothetical protein (2)	-	Domain of unknown function DUF2431 [IPR019446] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR29063] (2)	scaffold_1_mRNA_2905.1	C_unshiu_00133_mRNA_65.1	-	
GF0019867	1	1	0	Hypothetical protein (1); DUF2431 domain protein (1)	Hypothetical protein (1); DUF2431 domain protein (1)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Phosphotransferase/uridine kinase [IPR006083] (2); Uridine kinase-like [IPR000764] (2); Phosphotransferase-like [IPR29057] (2); Uridine kinase-like protein, plant [IPR029390] (1); Phosphotransferase/uridine kinase [IPR000836] (1)	scaffold_1_mRNA_2904.1	C_unshiu_01511_mRNA_15.1	-	
GF0019852	1	1	0	Hypothetical protein (2)	-	Agent domain, plant type [IPR014002]; Agent-like domain [IPR008395]	scaffold_1_mRNA_2808.1	C_unshiu_00681_mRNA_12.1	-	
GF0019851	1	1	0	Bromo adjacent-like domain protein (2)	Bromo domain binding [GO:0003682]; molecular function [2]	(2); Bromo adjacent homology (BAH) domain [IPR001025] (2); WLM domain [IPR013536] (2)	scaffold_1_mRNA_2807.1	C_unshiu_00681_mRNA_13.1	-	
GF0019850	1	1	0	Cytochrome P450 (2)	Cytochrome P450 [IPR001128] (2)	Cytochrome P450 [IPR001128] (2)	scaffold_1_mRNA_2800.1	C_unshiu_01231_mRNA_1.1	-	
GF0019849	1	1	0	Cytochrome P450 (2)	Cytochrome P450 [IPR001128] (2)	Cytochrome P450 [IPR001128] (2); Cytochrome P450, E-class, group I [IPR002401] (2)	scaffold_1_mRNA_2798.1	C_unshiu_00681_mRNA_21.1	-	
GF0019848	1	1	0	Hypothetical protein (2)	oxidoreductase activity, acting on paired donors, with incorporation or reduction of oxidant [GO:0016705]; molecular function [2]	scaffold_1_mRNA_2796.1	C_unshiu_00554_mRNA_18.1	-		
GF0019847	1	1	0	Cytochrome P450 (2)	Cytochrome P450, E-class, group I [IPR002401] (2); Cytochrome P450, conserved site [IPR017972] (2); Cytochrome P450 [IPR001128] (2)	scaffold_1_mRNA_2792.1	C_unshiu_00554_mRNA_14.1	-		
GF0019845	1	1	0	Boron transporter-like protein (2)	Boron transporter-like protein (2)	Bicarbonate transporter, eukaryotic [IPR003020] (2); Bicarbonate transporter, C-terminal [IPR011531] (2)	scaffold_1_mRNA_278.1	C_unshiu_00553_mRNA_17.1	-	
GF0019843	1	1	0	Hypothetical protein (2)	metal ion binding [GO:00046872]; molecular function [2]; metal ion transport [GO:0030001]; biological process [2]	Heavy metal-associated domain, HMA [IPR006121] (2)	scaffold_1_mRNA_277.1	C_unshiu_00554_mRNA_5.1	-	
GF0019842	1	1	0	Hypothetical protein (2)	-	dUTPase-like [IPR029054] (2); Deoxyuridine triphosphate nucleotidohydrolase [IPR008181] (1); DUTPase, trimethyl [IPR00304] (1); Deoxyuridine triphosphate nucleotidohydrolase/Deoxyuridine triphosphate deaminase [IPR008180] (1)	scaffold_1_mRNA_276.1	C_unshiu_01429_mRNA_5.1	-	
GF0019840	1	1	0	Deoxyuridine 5'-triphosphate nucleotidohydrolase family protein 1; Putative deoxyuridine 5'-triphosphate nucleotidohydrolase-like (1)	dUTP metabolic process [GO:0046808]; biological process [2]; hydrolase activity [GO:0016787]; molecular function [1]; dUTP diaphosphatase activity [GO:00004170]; molecular function [1]	dUTPase-like [IPR029054] (2); Deoxyuridine triphosphate nucleotidohydrolase [IPR008181] (1); DUTPase, trimethyl [IPR00304] (1); Deoxyuridine triphosphate nucleotidohydrolase/Deoxyuridine triphosphate deaminase [IPR008180] (1)	scaffold_1_mRNA_276.1	C_unshiu_01429_mRNA_7.1	-	
GF0019839	1	1	0	V-type proton ATPase subunit e (2)	V-type proton ATPase, V0 domain [GO:003179]; cellular component [2]; hydrogen ion transmembrane transporter activity [GO:0015078]; molecular function [2]; ATP hydrolysis coupled proton transport [GO:0015991]; biological process [2]	ATPase, V0 complex, subunit e2 [IPR008389] (2)	scaffold_1_mRNA_2739.1	C_unshiu_00103_mRNA_58.1	-	

ID	Num in <i>C. clementinae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0019838	1	1	0	Transcription initiation factor TFIID subunit 6 (2)	protein heterodimerization activity [GO:0046082 molecular function] (2); nucleus [GO:0005634 cellular component] (2); binding [GO:0005488 molecular function] (2); regulation of transcription, DNA-templated [GO:0006355 biological process] (2); binding transcription factor activity [GO:001090 biological process] (2); DNA-templated transcription, initiation [GO:0006352 biological process] (2)	Ankyrin repeat [IPR011604] (2); IPR011642 (2); TATA box binding protein associated factor (TAF) [IPR00423] (2); Armadillo-like helical [IPR011989] (2); Histone-fold [IPR009072] (2)	scaffold_1_mRNA_2737.1	C_unshiu_00103_mRNA_56.1	-
GF0019836	1	1	0	Hypothetical protein (2)	protein binding [GO:0008515 molecular function] (1)	F-box domain [IPR001810] (1); Leucine-rich repeat domain, L domain-like [IPR032675] (1)	scaffold_1_mRNA_2710.1	C_unshiu_00103_mRNA_26.1	-
GF0019834	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological process] (1)	FHY3/FAR1 family [IPR031052] (1)	scaffold_1_mRNA_2690.1	C_unshiu_02382_mRNA_5.1	-
GF0019831	1	1	0	Calcium-dependent protein kinase 21 (1); Calcium-dependent protein kinase 29 (1)	ATP binding [GO:0005524 molecular function] (2); protein kinase activity [GO:0004672 molecular function] (2); calcium ion binding [GO:0005509 molecular function] (1)	Serine/threonine-protein kinase, active site [IPR008271] (2); Protein kinase domain [IPR000719] (2); Protein kinase-like domain [IPR011009] (2); Protein kinase domain, kinase domain pair [IPR011009] (1); EF-hand domain [IPR011989] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1); EF-Hand 1, calcium-binding site [IPR018247] (1); EF-hand domain pair [IPR011992] (1)	scaffold_1_mRNA_2654.1	C_unshiu_00062_mRNA_1.1	-
GF0019830	1	1	0	Calcium-dependent protein kinase 21 (1); Calcium-dependent protein kinase 29 (1)	protein kinase activity [GO:0004672 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (2); ATP binding [GO:0005524 molecular function] (2); calcium ion binding [GO:0005509 molecular function] (1)	Protein kinase-like domain [IPR011009] (2); Protein kinase domain [IPR000719] (2); EF-hand 1, calcium-binding site [IPR011989] (2); EF-hand domain pair [IPR011989] (1); EF-Hand 1, calcium-binding site [IPR018247] (1); EF-hand domain pair [IPR011992] (1)	scaffold_1_mRNA_2649.1	C_unshiu_02583_mRNA_1.1	-
GF0019828	1	1	0	Ankyrin repeat family protein, putative (2)	protein binding [GO:0005515 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (2); ATP binding [GO:0005524 molecular function] (2); protein kinase activity [GO:0004672 molecular function] (2); ATP binding [GO:0005524 molecular function] (2)	EF-Hand 1, calcium-binding site [IPR011989] (2); EF-hand domain pair [IPR011989] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1); Serine/threonine/protein kinase, active site [IPR008271] (2); Protein kinase, kinase domain pair [IPR020048] (2); PGG domain [IPR020961] (2); Ankyrin repeat domain [IPR002290] (1); Protein kinase domain [IPR011009] (1); Protein kinase, kinase domain pair [IPR011009] (1)	scaffold_1_mRNA_2635.1	C_unshiu_00277_mRNA_8.1	-
GF0019827	1	1	0	Hypothetical protein (1); Calmodulin-domain protein kinase 9 isoform 3 (1)	calcium ion binding [GO:0005509 molecular function] (2); ATP binding [GO:0005524 molecular function] (1); protein kinase activity [GO:0004672 molecular function] (2); protein phosphorylation [GO:0006468 biological process] (1)	Zinc finger, RING-type [IPR0001841] (2); Zinc finger, RING-G-YVE/PHD-type [IPR013083] (2); R4ida family [IPR006056] (1); Yigf/YEV057c/UK14 family [IPR006175] (1); Rada, conserved [IPR006175] (1); Endopeptidase L-P93/cheratinsin-like [IPR013183] (1)	scaffold_1_mRNA_2631.1	C_unshiu_00277_mRNA_12.1	-
GF0019826	1	1	0	RING-U-box superfamily protein, putative isoform 1 (1); RING-H2 finger protein ATL1Q (1)	protein binding [GO:0005515 molecular function] (2); zinc ion binding [GO:0008270 molecular function] (2)	RNA recognition motif domain [IPR000594] (2); P-loop containing nucleotide triphosphate hydrolase [IPR027417] (1); Nucleotide-binding alpha-beta plait domain [IPR012677] (1); NB-ARC [IPR002182] (1)	scaffold_1_mRNA_2627.1	C_unshiu_01352_mRNA_1.1	-
GF0019824	1	1	0	Polyadenylate-binding protein RBP47C (1); Hypothetical protein (1)	nucleic acid binding [GO:0003676 molecular function] (2); nucleotide binding [GO:0000166 molecular function] (2); ADP binding [GO:0043531 molecular function] (1)	Proteasome beta-type subunit, conserved size [IPR016050] (2); Proteasome B-type subunit [IPR023333] (2); Peptidase T1A, peptidase domain [IPR000243] (2); Nucleotide ammehydro-dialyses, N-terminal [IPR020855] (2); Proteasome, subunit alpha-beta [IPR001153] (2)	scaffold_1_mRNA_2611.1	C_unshiu_00998_mRNA_7.1	-
GF0019823	1	1	0	Hypothetical protein (2)	threonine-type endopeptidase activity [GO:0004298 molecular function] (2); endopeptidase activity [GO:0004175 molecular function] (2); protease/peptidase complex [cellular component] (2); proteolysis involved in cellular protein catabolic process [GO:0015163 biological process] (2)	Proteasome type-I subunit, conserved size [IPR016050] (2); Proteasome B-type subunit [IPR023333] (2); Peptidase T1A, peptidase domain [IPR000243] (2); Nucleotide ammehydro-dialyses, N-terminal [IPR020855] (2); Proteasome, subunit alpha-beta [IPR001153] (2)	scaffold_1_mRNA_260.1	C_unshiu_00553_mRNA_4.1	-
GF0019822	1	1	0	Proteasome subunit beta type (2)	oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular function] (2); oxidation-reduction process [cellular component] (2); proteolysis involved in cellular protein catabolic process [GO:0015163 biological process] (2)	Cytchrome P450, B-class [IPR023397] (2); Cytchrome P450, conserved site [IPR0017972] (2); Cytchrome P450 [IPR001128] (2)	scaffold_1_mRNA_2595.1	C_unshiu_00595_mRNA_9.1	-
GF0019821	1	1	0	Cytochrome P450 71B1 (2)	Aminotransferase-like, plant mobile 0 domain family protein (1); C globular stage, putative (1)	Aminotransferase-like, plant mobile domain [IPR019557] (2); Protein of unknown function DUF716 (TMEM45) [IPR006904] (2)	scaffold_1_mRNA_2584.1	C_unshiu_00017_mRNA_22.1	-
GF0019820	1	1	0	Hypothetical protein (2)	0	Leucine-rich repeat domain, L domain-like [IPR011992] (2); Leucine-rich repeat domain, L domain-like [IPR012675] (2); F-box domain [IPR011810] (1)	scaffold_1_mRNA_2578.1	C_unshiu_00017_mRNA_30.1	-
GF0019819	1	1	0	Hypothetical protein (2)	0	Leucine-rich repeat domain, L domain-like [IPR011992] (2); Leucine-rich repeat domain, L domain-like [IPR012675] (2); F-box domain [IPR011810] (1)	scaffold_1_mRNA_2577.1	C_unshiu_00017_mRNA_31.1	-
GF0019818	1	1	0	F-box/LRR-repeat protein Atg58900 (1); Hypothetical protein (1)	protein binding [GO:0005515 molecular function] (1)	Leucine-rich repeat-containing N-terminal, plant-type [IPR011310] (2); Leucine-rich repeat-type [IPR001611] (2); Leucine-rich repeat, typical subtype [IPR003591] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_1_mRNA_2573.1	C_unshiu_02856_mRNA_2.1	-
GF0019817	1	1	0	LRR receptor-like kinase family protein 0 (1); LRR receptor-like serine/threonine-protein kinase GS01 (1)	protein binding [GO:0005515 molecular function] (2)	Leucine-rich repeat-containing N-terminal, plant-type [IPR011310] (2); Leucine-rich repeat, typical subtype [IPR003591] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_1_mRNA_2571.1	C_unshiu_02856_mRNA_3.1	-
GF0019815	1	1	0	Hypothetical protein (2)	0	FAR1 DNA binding domain [IPR004330] (2); FH3/FAR1 family [IPR013052] (2); Zinc finger, SWIM-type [IPR000527] (2); MULE transposase domain [IPR010289] (2)	scaffold_1_mRNA_2566.1	C_unshiu_01265_mRNA_7.1	-
GF0019814	1	1	0	Protein FAR1-RELATED SEQUENCE 5 (2)	regulation of transcription, DNA-templated [GO:0006355 biological process] (2); zinc ion binding [GO:0008270 molecular function] (2)	Leucine-rich repeat 5 [IPR011310] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); FBD domain [IPR006694] (2)	scaffold_1_mRNA_2562.1	C_unshiu_03061_mRNA_1.1	-
GF0019813	1	1	0	Hypothetical protein (2)	0	Leucine-rich repeat 5 [IPR011310] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); FBD domain [IPR006694] (2)	scaffold_1_mRNA_2558.1	C_unshiu_02130_mRNA_1.1	-
GF0019812	1	1	0	Hypothetical protein (2)	0	Leucine-rich repeat domain, L domain-like [IPR032675] (2); FBD domain [IPR006694] (2)	scaffold_1_mRNA_2554.1	C_unshiu_00003_mRNA_138.1	-
GF0019811	1	1	0	FBD, F-box and leucine rich repeat domain-containing protein (2)	protein binding [GO:0005515 molecular function] (2)	Serine/threonine-protein kinase, active site [IPR008271] (2); Protein kinase domain [IPR011989] (2)	scaffold_1_mRNA_2551.1	C_unshiu_00036_mRNA_51.1	-
GF0019810	1	1	0	Hypothetical protein (2)	protein phosphorylation [GO:0006468 biological process] (2); protein kinase activity [GO:0004672 molecular function] (2); ATP binding [GO:0005524 molecular function] (2)	Protein kinase-like domain [IPR001100] (2); Protein kinase domain [IPR001100] (2); ConcanaVitin A-like lectin/glycan domain [IPR013320] (1)	scaffold_1_mRNA_2547.1	C_unshiu_00576_mRNA_15.1	-
GF0019809	1	1	0	Serine/threonine-protein kinase PBS1 (2)	protein binding [GO:0005515 molecular function] (2)	Protein kinase-like domain [IPR001100] (2); Protein kinase domain [IPR001100] (2); ConcanaVitin A-like lectin/glycan domain [IPR013320] (1)	scaffold_1_mRNA_2550.1	C_unshiu_00036_mRNA_52.1	-
GF0019808	1	1	0	Hypothetical protein (2)	0	Protein of unknown function DUF4666 [IPR031421] (2)	scaffold_1_mRNA_255.1	C_unshiu_00749_mRNA_12.1	-
GF0019807	1	1	0	Hypothetical protein (2)	0	Protein kinase-like domain [IPR001100] (2)	scaffold_1_mRNA_2547.1	C_unshiu_00749_mRNA_15.1	-
GF0019806	1	1	0	Protein FAR1-RELATED SEQUENCE 5 (2)	protein binding [GO:0005515 molecular function] (2)	Ankyrin repeat-containing domain [IPR020683] (2); Ankyrin repeat [IPR00423] (2)	scaffold_1_mRNA_2541.1	C_unshiu_02076_mRNA_3.1	-
GF0019805	1	1	0	Ankyrin repeat protein (2)	protein binding [GO:0005515 molecular function] (1)	PGG domain [IPR026961] (2); Ankyrin repeat-containing domain [IPR020683] (2); Ankyrin repeat [IPR00423] (2)	scaffold_1_mRNA_2540.1	C_unshiu_02122_mRNA_1.1	-
GF0019804	1	1	0	Hypothetical protein (2)	0	Protein of unknown function DUF4666 [IPR031421] (2)	scaffold_1_mRNA_254.1	C_unshiu_00749_mRNA_11.1	-
GF0019803	1	1	0	Hypothetical protein (2)	0	Protein of unknown function DUF4666 [IPR031421] (2)	scaffold_1_mRNA_2519.1	C_unshiu_00142_mRNA_8.1	-
GF0019801	1	1	0	Hypothetical protein (2)	0	Beta-glucuronidase [IPR013024] (1)	scaffold_1_mRNA_2500.1	C_unshiu_00157_mRNA_2.1	-
GF0019800	1	1	0	Cation transport protein chuC (2)	glutathione catabolic process [GO:0006781 biological process] (2); gamma-glutamylcyclotransferase activity [GO:0003839 molecular function] (1)	Glutathione-glutamyl cyclotransferase-like [IPR011851] (1); glutathione-specific gamma-glutamyl cyclotransferase [IPR006640] (1); Chc-like protein [IPR006640] (1); Batrachotoxin biosynthesis, BrG-like [IPR013024] (1)	scaffold_1_mRNA_25.2	C_unshiu_00003_mRNA_137.2	-
GF0019799	1	1	0	Hypothetical protein (2)	0	Protein of unknown function DUF4666 [IPR031421] (2)	scaffold_1_mRNA_2499.1	C_unshiu_00157_mRNA_7.1	-

ID	Num. in <i>C. clementine</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0019798	1	1	0	E3 ubiquitin-protein ligase RBBP6 (1); hypothetical protein (1)	nucleic acid binding [GO:0003676]; molecular function [1]; zinc ion binding [GO:0008270] molecular function [1]	Zinc finger, CCHC-type [IPR001878]; (1); Retrotansposon gag domain [IPR005162] (1)	scaffold_1_mRNA_2498.1	C_unshiu_01430_mRNA_1.1	-
GF0019797	1	1	0	Disease resistance family protein / LRR family protein, putative (2)	protein binding [GO:0005515]; molecular function [2]	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat, typical subtype [IPR003591] (2); Leucine-rich repeat domain, L-domain-like [IPR0032675] (2); Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2)	scaffold_1_mRNA_2494.1	C_unshiu_00487_mRNA_23.1	-
GF0019796	1	1	0	Disease resistance family protein / LRR family protein, putative (2)	protein binding [GO:0005515]; molecular function [2]	scaffold_1_mRNA_2492.1	C_unshiu_00487_mRNA_21.1	-	
GF0019795	1	1	0	Hypothetical protein (2)	-	Guanidine-S-transf erase, C-terminal-like [IPR010987] (2); Ubiquitin domain [IPR000626] (1); Ubiquitin-related domain [IPR029071] (1); Ubiquitin [IPR019956] (1)	scaffold_1_mRNA_2490.1	C_unshiu_00487_mRNA_19.1	-
GF0019793	1	1	0	Lambda class glutathione S-transferase (1); Glutathione S-transferase L3 (1)	protein binding [GO:0005515]; molecular function [1]	[IPR000626] (1); Ubiquitin-related domain [IPR029071] (1); Ubiquitin [IPR019956] (1)	scaffold_1_mRNA_2473.1	C_unshiu_00395_mRNA_15.1	-
GF0019792	1	1	0	Non-race specific disease resistance 1 (2)	-	scaffold_1_mRNA_2471.1	C_unshiu_00395_mRNA_13.1	-	
GF0019791	1	1	0	ABC transporter B family member 15 (2)	transport [GO:0006810]; biological process [2]; integral component of membrane [GO:0016021]; cellular component [2]; ATPase activity [GO:0016887] molecular function [3]; molecular function [2]; transmembrane transporter [GO:0005505]; ATP binding [GO:0005524]; ATPase activity [2]; ATPase activity coupled to transmembrane movement of substances [GO:0042626] molecular function [2]	ABC transporter, conserved site [IPR017671] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); AAA+ ATPase domain [IPR003593] (2); ABC transporter-like [IPR003439] (2); ABC transporter type I, transmembrane domain [IPR011527] (2)	scaffold_1_mRNA_2470.1	C_unshiu_00395_mRNA_12.1	-
GF0019790	1	1	0	Hypothetical protein (2)	drug transmembrane transporter activity [GO:0015238] molecular function [2]; antifreeze protein activity [GO:0015297]; molecular function [2]; membrane molecular function [2]; transmembrane biological process [2]; drug transmembrane transport [GO:0006855] biological process [2]; transmembrane transport [GO:0005505] biological process [2]	Multi antimicrobial extrusion protein [IPR002528] (2)	scaffold_1_mRNA_2464.1	C_unshiu_00395_mRNA_6.1	-
GF0019788	1	1	0	Hypothetical protein (2)	lyase activity [GO:0016829] molecular function [2]; terpene synthase activity [GO:0010332] molecular function [2]; magnesium ion binding [GO:0000287] molecular function [2]	Ataxin-2, C-terminal [IPR009818] (2)	scaffold_1_mRNA_2447.1	C_unshiu_00626_mRNA_13.1	-
GF0019786	1	1	0	Terpenoid synthase (1); Delta-cadinen synthase isozyme A (1)	terpene synthase activity [GO:0010332] molecular function [2]; magnesium ion binding [GO:0000287] molecular function [2]	Isoptenoid synthase domain [IPR008949] (2); Terpene synthase, metal-binding domain [IPR005630] (2)	scaffold_1_mRNA_2439.1	C_unshiu_01516_mRNA_1.1	-
GF0019785	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_2436.1	C_unshiu_01516_mRNA_6.1	-	
GF0019784	1	1	0	Delta-cadinen synthase isozyme XC14 0 (1); (+)-delta-cadinen synthase isozyme A (1)	lyase activity [GO:0016829] molecular function [2]; terpene synthase activity [GO:0010332] molecular function [2]; metabolic process [GO:0008152] biological process [2]	Terpenoid cyclases [IPR008930] (2); Terpene synthase, N-terminal domain [IPR001906] (2)	scaffold_1_mRNA_2419.1	C_unshiu_01090_mRNA_5.1	-
GF0019781	1	1	0	Sesquiterpene synthase (2)	lyase activity [GO:0016829] molecular function [2]; lyase activity [GO:0010332] molecular function [2]; metabolic process [GO:0008152] biological process [2]	Terpenoid cyclases [IPR008930] (2); Terpene synthase, N-terminal domain [IPR001906] (2)	scaffold_1_mRNA_2409.1	C_unshiu_01090_mRNA_13.1	-
GF0019780	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_2395.1	C_unshiu_00743_mRNA_11.1	-	
GF0019779	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_2393.1	C_unshiu_01083_mRNA_6.1	-	
GF0019778	1	1	0	Sesquiterpene synthase (2)	proteolysis [GO:0006508] biological process [2]; cysteine-type peptidase activity [GO:0008234] molecular function [1]	scaffold_1_mRNA_2392.1	C_unshiu_01083_mRNA_5.1	-	
GF0019777	1	1	0	Hypothetical protein (2)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (1)	scaffold_1_mRNA_2389.1	C_unshiu_02083_mRNA_4.1	-	
GF0019776	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_2381.1	C_unshiu_00174_mRNA_5.1	-	
GF0019775	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508] biological process [2]; cysteine-type peptidase activity [GO:0008234] molecular function [1]	Zinc finger, SWIM-type [IPR007527] (2); PHY3/FAR1 family [IPR031052] (2); FAR1 DNA-binding domain [IPR004330] (2)	scaffold_1_mRNA_2371.1	C_unshiu_00132_mRNA_17.1	-
GF0019774	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676] molecular function [1]	Retrotransposon gag domain [IPR005162] (2)	scaffold_1_mRNA_2358.1	C_unshiu_01256_mRNA_1.1	-
GF0019772	1	1	0	Hypothetical protein (1); FAR1 DNA-binding domain protein (1)	zinc ion binding [GO:0008270] molecular function [2]; regulation of transcription, DNA-templated [GO:0006355] biological process [2]	Retrotransposon gag domain [IPR005162] (2)	scaffold_1_mRNA_2353.1	C_unshiu_02834_mRNA_2.1	-
GF0019771	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_2351.1	C_unshiu_02834_mRNA_5.1	-	
GF0019770	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_2350.1	C_unshiu_02834_mRNA_6.1	-	
GF0019769	1	1	0	Monosaccharide transport protein (2)	-	-	-	-	-
GF0019768	1	1	0	Hypothetical protein (2)	-	-	-	-	-
GF0019767	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524] molecular function [2]; protein kinase activity [GO:0004672] molecular function [2]; protein phosphorylation [GO:0006468] biological process [2]	Protein kinase-like domain [IPR011009] (2); Protein kinase domain [IPR000719] (2); Serine/threonine/tyrosine-protein kinase catalytic domain [IPR001245] (1); Serine/threonine/tyrosine-protein kinase, active site [IPR008271] (1)	scaffold_1_mRNA_2345.1	C_unshiu_00462_mRNA_17.1	-
GF0019766	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_2344.1	C_unshiu_00462_mRNA_16.1	-	
GF0019765	1	1	0	Hypothetical protein (2)	-	scaffold_1_mRNA_2343.1	C_unshiu_00462_mRNA_15.1	-	
GF0019764	1	1	0	Cysteine-rich RLK (Receptor-like kinase) protein (2)	ATP binding [GO:0005524] molecular function [2]; protein phosphorylation [GO:0006468] biological process [2]; protein kinase activity [GO:0004672] molecular function [2]	S-locus receptor kinase, C-terminal [IPR021420] (2); Serine/threonine-protein kinase, active site [IPR008271] (2); Protein kinase, ATP binding site [IPR017441] (2); Protein kinase-like domain [IPR000109] (2); Protein kinase domain [IPR0001245] (1); Serine/threonine-protein kinase catalytic domain [IPR001245] (1); Serine/threonine-protein kinase, active site [IPR008271] (1)	scaffold_1_mRNA_2342.1	C_unshiu_00462_mRNA_14.1	-
GF0019763	1	1	0	Hypothetical protein (2)	-	Retrotransposon gag domain [IPR005162] (2)	scaffold_1_mRNA_2340.1	C_unshiu_00462_mRNA_13.1	-
GF0019762	1	1	0	S-locus lectin kinase family protein (2)	recognition of pollen [GO:0048544] biological process [2]	Bath-type lectin domain [IPR001480] (2); PAN/Apple domain [IPR003609] (2); EGF-like domain [IPR000742] (2); S-type glycoprotein domain [IPR001245] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPR001245] (1)	scaffold_1_mRNA_2338.1	C_unshiu_00210_mRNA_29.1	-
GF0019761	1	1	0	Cysteine-rich RLK (Receptor-like kinase) protein (2)	ATP binding [GO:0005524] molecular function [2]; protein phosphorylation [GO:0006468] biological process [2]; protein kinase activity [GO:0004672] molecular function [2]	Serine/threonine/protein kinase, catalytic domain [IPR001245] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPR001245] (1)	scaffold_1_mRNA_2332.1	C_unshiu_01720_mRNA_3.1	-
GF0019758	1	1	0	S-locus lectin protein kinase family protein, putative (1); Hypothetical protein (1)	recognition of pollen [GO:0048544] biological process [2]; protein binding [GO:0008270] molecular function [2]; protein phosphorylation [GO:0006468] biological process [2]; protein kinase activity [GO:0004672] molecular function [2]	Bath-type lectin domain [IPR001480] (2); Protein kinase domain [IPR001109] (2); Bath-type lectin domain [IPR000719] (1); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPR001245] (1)	scaffold_1_mRNA_2308.1	C_unshiu_00386_mRNA_23.1	-
GF0019756	1	1	0	S-locus lectin kinase family protein (2)	-	Bath-type lectin domain [IPR001480] (2)	scaffold_1_mRNA_2289.1	C_unshiu_00210_mRNA_28.1	-

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0019755	1	1	0	G-type lectin S-receptor-like serine/threonine-protein kinase (2)	protein kinase activity [GO:0004672]; molecular function [2]; recognition of pollen [GO:0048544 biological process] (2); ATP binding [GO:0006468 biological process] (2); molecular function [2]	Protein kinase domain [IPR000719] (3); Protein kinase-like domain [IPR011009] (2); Serine/threonine-protein kinase; active site [IPR08271] (2); Bulk-type lectin domain [IPR003691] (2); PAN/Apple domain [IPR003691] (2); Serine/threonine-protein kinase, catalytic domain [IPR001245] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1); Serine/threonine-tyrosine-protein kinase, catalytic domain [IPR001245] (1)	scaffold_1_mRNA_2284.1	C_unshiu_00210_mRNA_34.1	-
GF0019754	1	1	0	Retrotransposon protein, putative, unclassified (2)		Retrotransposon gag domain [IPR05162] (2); Retroviral aspartyl protease [IPR013242] (2); Aspartic peptidase domain [IPR021109] (1)	scaffold_1_mRNA_2283.1	C_unshiu_00210_mRNA_35.1	-
GF0019751	1	1	0	G-type lectin S-receptor-like serine/threonine-protein kinase (2)	ATP binding [GO:0005524]; molecular function [2]; protein kinase activity [GO:0004672]; molecular function [2]; recognition of pollen [GO:0048544 biological process] (2); protein serine/threonine kinase activity [GO:0004674 molecular function] (1)	PAN/Apple domain [IPR003691] (2); Bulk-type lectin domain [IPR001480] (2); Serine/threonine-protein kinase, active site [IPR008271] (2); S-locus glycoprotein domain [IPR000658] (2); Protein kinase-like domain [IPR011009] (2); Protein kinase domain [IPR000719] (2); Serine-threonine-tyrosine-protein kinase, catalytic domain [IPR001245] (1); scaffold_1_mRNA_2270.1	scaffold_1_mRNA_2270.1	C_unshiu_01771_mRNA_4.1	-
GF0019749	1	1	0	Hypothetical protein (1); RNA-directed DNA polymerase (Reverse transcriptase), Ribonuclease H (1)		Reverse transcriptase domain [IPR000477] (1)	scaffold_1_mRNA_2267.1	C_unshiu_00274_mRNA_33.1	-
GF0019748	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2262.1	C_unshiu_00274_mRNA_29.1	-
GF0019746	1	1	0	Hypothetical protein (2)	calcium ion binding [GO:0005509 molecular function] (2)	EF-hand domain [IPR002048] (2); EF-Hand domain [IPR018247] (2); EF-hand domain pair [IPR011992] (2); Protein kinase-like domain [IPR011009] (1)	scaffold_1_mRNA_2248.1	C_unshiu_00274_mRNA_18.1	-
GF0019745	1	1	0	Hypothetical protein (2)		Zinc knuckle CX2CX4HXC [IPR025836] (2); Domain of unknown function DU4283 [IPR025558] (2)	scaffold_1_mRNA_2247.1	C_unshiu_00274_mRNA_17.1	-
GF0019744	1	1	0	Hypothetical protein (2)		Reverse transcriptase domain [IPR000477] (2)	scaffold_1_mRNA_2245.1	C_unshiu_00274_mRNA_14.1	-
GF0019743	1	1	0	Hypothetical protein (2)		Reverse transcriptase domain [IPR012337] (2); Reverse transcriptase domain [IPR026960] (2)	scaffold_1_mRNA_2240.1	C_unshiu_00274_mRNA_9.1	-
GF0019742	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2236.1	C_unshiu_00274_mRNA_6.1	-
GF0019741	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2235.1	C_unshiu_00274_mRNA_5.1	-
GF0019740	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2234.1	C_unshiu_00274_mRNA_4.1	-
GF0019739	1	1	0	Non-LTR retroelement reverse transcriptase-like protein (2)	nucleic acid binding [GO:0003676 molecular function] (2); RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular function] (2)	Ribonuclease H domain [IPR002156] (2); Ribonuclease H-like domain [IPR012337] (2); Reverse transcriptase domain [IPR026960] (2)	scaffold_1_mRNA_2230.1	C_unshiu_00369_mRNA_44.1	-
GF0019738	1	1	0	S-locus lectin kinase family protein, putative (1); S-locus lectin kinase family protein isoform 4 (1)	recognition of pollen [GO:0048544 biological process] (2); ATP binding [GO:0005524 molecular function] (1); protein kinase activity [GO:0004672 molecular function] (1); protein phosphorylation [GO:0006468 biological process] (1)	S-locus lectin kinase family protein, putative (1); S-locus lectin kinase family protein isoform 4 (1)	scaffold_1_mRNA_2229.1	C_unshiu_00369_mRNA_42.1	-
GF0019737	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2194.1	C_unshiu_00137_mRNA_29.1	-
GF0019735	1	1	0	Hypothetical protein (1); FBD-associated protein binding At4g10400 (1)	protein binding [GO:0005515 molecular function] (1)	FBD domain [IPR006566] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); F-box domain [IPR00110] (1)	scaffold_1_mRNA_2178.1	C_unshiu_00137_mRNA_39.1	-
GF0019734	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2); RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2); Ribonuclease H domain [IPR002156] (2)	scaffold_1_mRNA_2170.1	C_unshiu_00137_mRNA_48.1	-
GF0019733	1	1	0	Hypothetical protein (2)		Ribonuclease H-like domain [IPR001810] (2); WD40/YVTN repeat-like-containing domain [IPR015943] (1)	scaffold_1_mRNA_2157.1	C_unshiu_00993_mRNA_8.1	-
GF0019730	1	1	0	F-box and associated interaction protein (1);	nucleic acid binding [GO:0003676 molecular function] (1)	Ribonuclease H-like domain [IPR001810] (2); WD40/YVTN repeat-like-containing domain [IPR015943] (1)	scaffold_1_mRNA_2150.1	C_unshiu_01676_mRNA_4.1	-
GF0019729	1	1	0	Hypothetical protein (1); Ubiquitin carboxy-terminal hydrolase 12 (1)	protein binding [GO:0005515 molecular function] (1)	TRAF-like [IPR008974] (2); MATH-domain [IPR002083] (2)	scaffold_1_mRNA_2119.1	C_unshiu_00187_mRNA_33.1	-
GF0019728	1	1	0	Hypothetical protein (2)		NB-ARC [IPR002182] (2); AAA+ ATPase domain [IPR003593] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_1_mRNA_2102.1	C_unshiu_00187_mRNA_18.1	-
GF0019727	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2096.1	C_unshiu_00187_mRNA_11.1	-
GF0019726	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2093.1	C_unshiu_00187_mRNA_8.1	-
GF0019725	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2087.1	C_unshiu_00429_mRNA_23.1	-
GF0019724	1	1	0	DNAse I superfamily protein, putative (1); Hypothetical protein (1)	Endonuclease/exonuclease/phosphatase [IPR00135] (1)	scaffold_1_mRNA_2084.1	C_unshiu_00087_mRNA_18.1	-	
GF0019723	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular function] (2); zinc ion binding [GO:0008270 molecular function] (2)	Zinc finger, RING-type [IPR001841] (2); Zinc finger, RING/FYVE/PHD-type [IPR013083] (2)	scaffold_1_mRNA_2059.1	C_unshiu_00044_mRNA_20.1	-
GF0019722	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2058.1	C_unshiu_00044_mRNA_21.1	-
GF0019721	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_1_mRNA_2052.1	C_unshiu_00044_mRNA_26.1	-
GF0019720	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2049.1	C_unshiu_00044_mRNA_28.1	-
GF0019719	1	1	0	Hypothetical protein (2)	ADP binding [GO:0043531 molecular function] (2)	NB-ARC [IPR002182] (2); AAA+ ATPase domain [IPR003593] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_1_mRNA_2048.1	C_unshiu_00044_mRNA_30.1	-
GF0019717	1	1	0	Serine/threonine-protein kinase isoform 2 (2)	ATP binding [GO:0005524 molecular function] (2); protein kinase activity [GO:0006468 biological process] (2); protein kinase activity [GO:0004672 molecular function] (2)	Protein kinase domain [IPR011009] (2); Protein kinase-like domain [IPR000719] (2); Serine/threonine-protein kinase, active site [IPR08271] (2); Protein kinase, ATP binding site [IPR017441] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_1_mRNA_2038.1	C_unshiu_00044_mRNA_46.1	-
GF0019716	1	1	0	Legume lectin family protein (2)	carbohydrate binding [GO:0030246 molecular function] (2)	Cupredoxin [IPR008972] (2); Phytocyanin domain [IPR003245] (2)	scaffold_1_mRNA_2022.1	C_unshiu_00044_mRNA_62.1	-
GF0019715	1	1	0	Early nodulin-like protein 2 (2)	electron carrier activity [GO:0009055 molecular function] (2)	Phytocyanin domain [IPR003245] (2)	scaffold_1_mRNA_2010.1	C_unshiu_00247_mRNA_35.1	-
GF0019711	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1995.1	C_unshiu_00335_mRNA_48.1	-
GF0019710	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1986.1	C_unshiu_00335_mRNA_60.1	-
GF0019708	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1985.1	C_unshiu_00335_mRNA_61.1	-
GF0019707	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1970.1	C_unshiu_00035_mRNA_75.1	-
GF0019706	1	1	0	Hypothetical protein (2)					
GF0019704	1	1	0	Hypothetical protein (2)	membrane [GO:0016020 cellular component] (2); hydrolase activity, acting on glycosyl bonds [GO:001798 molecular function] (2); carbohydrate metabolic process [GO:000975 biological process] (1)	Leucine-rich repeat domain, L domain-like [IPR032675] (1)	scaffold_1_mRNA_1984.1	C_unshiu_00035_mRNA_62.1	-
GF0019703	1	1	0	Glycoside hydrolase family 79 amino-terminal domain protein (2)			scaffold_1_mRNA_1970.1	C_unshiu_00005_mRNA_97.1	-
GF0019702	1	1	0	NBS-LRR class resistance protein Fy-1 Ry1 (2)	ADP binding [GO:0043531 molecular function] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC [IPR002182] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_1_mRNA_1968.1	C_unshiu_00035_mRNA_77.1	-
GF0019701	1	1	0	Putative disease resistance protein (2)	ADP binding [GO:0043531 molecular function] (2)	NB-ARC [IPR002182] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_1_mRNA_1967.1	C_unshiu_00035_mRNA_78.1	-
GF0019700	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPR032675] (1)	scaffold_1_mRNA_1964.1	C_unshiu_00468_mRNA_13.1	-
GF0019699	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1958.1	C_unshiu_00035_mRNA_84.1	-
GF0019698	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1956.1	C_unshiu_00035_mRNA_87.1	-
GF0019697	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1955.1	C_unshiu_00035_mRNA_88.1	-
GF0019696	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1949.1	C_unshiu_00035_mRNA_94.1	-
GF0019695	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1936.1	C_unshiu_00452_mRNA_3.1	-
GF0019694	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1931.1	C_unshiu_00452_mRNA_12.1	-
GF0019693	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1929.1	C_unshiu_00452_mRNA_14.1	-

ID	Num in <i>C. clementinae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0019692	1	1	0	Hypothetical protein (2)	ADP binding [GO:0043531]; molecular function [2]; nucleic acid binding [GO:0003676]; molecular function [1]; DNA integration [GO:0015074 biological_process] (1)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Integrase, catalytic core scaffold_1_mRNA_1926.1 [IPR00182] (2); Ribonuclease H-like domain [IPR012337] (1)	C_unshiu_00452_mRNA_17.1	-	-
GF0019691	1	1	0	Hypothetical protein (2)		Integrase, catalytic core scaffold_1_mRNA_1925.1 [IPR00184] (1); Ribonuclease H-like domain [IPR027406] (2)	C_unshiu_00452_mRNA_18.1	-	-
GF0019690	1	1	0	Hypothetical protein (2)		LOG family [IPR031100] (2); Cytokinin ribose 5'-monophosphate phosphotriphosphorylase LOG [IPR005269] (2)	scaffold_1_mRNA_1917.1	C_unshiu_00452_mRNA_23.1	-
GF0019689	1	1	0	Cytokinin ribose 5'-monophosphate phosphotriphosphorylase (2)		phosphotriphosphorylase LOG [IPR005269] (2)	scaffold_1_mRNA_1914.1	C_unshiu_00452_mRNA_25.1	-
GF0019688	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355]; biological process [2]; phosphotransferase activity, alcohol group as acceptor [GO:0001673]; molecular function [2]; DNA binding [GO:0003677 molecular function] (2)		scaffold_1_mRNA_191.1	C_unshiu_00852_mRNA_13.1	-
GF0019686	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1906.1	C_unshiu_00552_mRNA_5.1	-
GF0019684	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1894.1	C_unshiu_00282_mRNA_17.1	-
GF0019683	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1885.1	C_unshiu_00108_mRNA_31.1	-
GF0019682	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1877.1	C_unshiu_00108_mRNA_20.1	-
GF0019680	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1856.1	C_unshiu_01727_mRNA_4.1	-
GF0019679	1	1	0	Hypothetical protein (2)		Trichome-briefing-like family [IPR02982] (2); PMR5 N-terminal domain [IPR025384] (2); PC-Esterase [IPR26657] (2)	scaffold_1_mRNA_1836.1	C_unshiu_00288_mRNA_3.1	-
GF0019678	1	1	0	Ferrochelatase (2)		PC-Esterase [IPR026057] (2); Trichome-briefing-like family [IPR029962] (2); Plant lipid transfer protein for allergen [IPR000528] (2); Bisfunctional inhibitor-lipid transfer protein seed storage-bile acid domain [IPR016140] (2)	scaffold_1_mRNA_1834.1	C_unshiu_00288_mRNA_5.1	-
GF0019677	1	1	0	Lipid transfer protein 2 (2)	lipid binding [GO:0008289]; molecular function [2]; lipid transport [GO:0006869 biological_process] (2)		scaffold_1_mRNA_1818.1	C_unshiu_01700_mRNA_5.1	-
GF0019676	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF1985 [IPR015410] (2)	scaffold_1_mRNA_1815.1	C_unshiu_01700_mRNA_8.1	-
GF0019675	1	1	0	Hypothetical protein (2)		Transposase, MuDR, plant [IPR004332] (2)	scaffold_1_mRNA_1814.1	C_unshiu_01700_mRNA_10.1	-
GF0019673	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1810.1	C_unshiu_00426_mRNA_19.1	-
GF0019671	1	1	0	Hypothetical protein (2)	protease activity [GO:000508]; biological process [2]; cysteine-type peptidase activity [GO:0008234 molecular function] (2)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (2)	scaffold_1_mRNA_1806.1	C_unshiu_00426_mRNA_22.1	-
GF0019670	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1799.1	C_unshiu_00426_mRNA_25.1	-
GF0019669	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1798.1	C_unshiu_00426_mRNA_26.1	-
GF0019668	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1792.1	C_unshiu_01098_mRNA_5.1	-
GF0019667	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4219 [IPR025314] (2)	scaffold_1_mRNA_1790.1	C_unshiu_01098_mRNA_3.1	-
GF0019666	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1780.1	C_unshiu_00694_mRNA_4.1	-
GF0019665	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4371 [IPR025398] (2)	scaffold_1_mRNA_1777.1	C_unshiu_00694_mRNA_8.1	-
GF0019664	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1771.1	C_unshiu_00694_mRNA_14.1	-
GF0019663	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1770.1	C_unshiu_02477_mRNA_3.1	-
GF0019662	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1769.1	C_unshiu_00022_mRNA_31.1	-
GF0019661	1	1	0	Hypothetical protein (2)		Transposase, MuDR, plant [IPR004332] (2)	scaffold_1_mRNA_1762.1	C_unshiu_00944_mRNA_4.1	-
GF0019660	1	1	0	Caffeic acid 3-O-methyltransferase (1); Caffeic O-methyltransferase (1)	O-methyltransferase activity [GO:0008171 molecular function] (2); O-methyltransferase activity [GO:0008168 molecular function] (2)	Winged helix-turn-helix DNA-binding domain [IPR01199] (2); O'-methyltransferase, family 2 [IPR001077] (2); O-methyltransferase, family 2 [IPR000528] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (2)	scaffold_1_mRNA_1761.1	C_unshiu_00944_mRNA_3.1	-
GF0019659	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1758.1	C_unshiu_00770_mRNA_2.1	-
GF0019658	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1757.1	C_unshiu_01217_mRNA_3.1	-
GF0019657	1	1	0	Hypothetical protein (2)	oxidoreductase activity [GO:00016491 molecular function] (2); oxidation-reduction process [GO:0005114 biological_process] (2)	Peptidase S24/S26/S26B/S26C [IPR015927] (2); Aldo/keto reductase [IPR020416] (2); Aldo/keto reductase, conserved site [IPR01670] (2); NADP-dependent oxidoreductase domain [IPR023210] (2); Aldo/keto reductase, conserved site [IPR001395] (1)	scaffold_1_mRNA_1753.1	C_unshiu_01217_mRNA_5.1	-
GF0019656	1	1	0	Hypothetical protein (2)	oxidation-reduction process [GO:0015114 biological process] (2); oxidoreductase activity [GO:0016491 molecular function] (2)	Aldo/keto reductase-potassium channel subunit beta [IPR011395] (1); Aldo/keto reductase [IPR020471] (1)	scaffold_1_mRNA_1752.1	C_unshiu_01217_mRNA_6.1	-
GF0019655	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1750.1	C_unshiu_01217_mRNA_8.1	-
GF0019654	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1740.1	C_unshiu_00455_mRNA_22.1	-
GF0019653	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1739.1	C_unshiu_00455_mRNA_20.1	-
GF0019652	1	1	0	2-oxoglutarate (2OG) and Fe(II)-dependent oxygenase superfamily protein (2)	iron ion binding [GO:0005506 molecular function] (2); L-ascorbic acid binding [GO:001418 molecular function] (2); 2-oxoglutarate oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0008234 molecular function] (2); 2-oxoglutarate oxidoreductase activity [GO:0016491 molecular function] (2); oxidation-reduction process [GO:00055114 biological process] (2)	Prolyl 4-hydroxylase, alpha subunit [IPR006620] (2); Oxoglutarate/iron-dependent dioxygenase [IPR005123] (2)	scaffold_1_mRNA_1736.1	C_unshiu_00455_mRNA_16.1	-
GF0019651	1	1	0	Hypothetical protein (2)		Lysine-rich repeat domain, L domain-like [IPR012370] (2)	scaffold_1_mRNA_1732.1	C_unshiu_00455_mRNA_11.1	-
GF0019650	1	1	0	Hypothetical protein (2)		PAN-Apple domain [IPR003609] (2); S-locus glycoprotein domain [IPR000858] (2); Serine/threonine-protein kinase active site [IPR008271] (2); Protein kinase-like domain [IPR011009] (2); Protein kinase domain [IPR000719] (2); Serine/threonine/proline-rich domain [IPR01245] (2); Serine/threonine/dipecptide specificity protein kinase, catalytic domain [IPR002290] (2); Serine/threonine/proline-rich domain [IPR013945] (1)	scaffold_1_mRNA_1731.1	C_unshiu_00455_mRNA_10.1	-
GF0019648	1	1	0	G-type lectin S-receptor-like serine/threonine-protein kinase (2)	recognition of pollen [GO:0048544 biological process] (2); protein phosphorylation [GO:0006468 molecular function] (2); protein kinase activity [GO:0004672 molecular function] (2); ATP binding [GO:0005524 molecular function] (2)	Tryptophanyl-serine/threonine-protein kinase, catalytic domain [IPR012337] (2)	scaffold_1_mRNA_1720.1	C_unshiu_00071_mRNA_41.1	-
GF0019647	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1716.1	C_unshiu_00071_mRNA_37.1	-
GF0019646	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1714.1	C_unshiu_00071_mRNA_35.1	-
GF0019645	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1713.1	C_unshiu_00071_mRNA_34.1	-
GF0019644	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1712.1	C_unshiu_00071_mRNA_33.1	-
GF0019643	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1707.1	C_unshiu_00071_mRNA_28.1	-
GF0019642	1	1	0	Pre-mRNA-splicing factor SPF27 (2)	mRNA processing [GO:000397]; biological process [2]; protein dimerization activity [GO:0046983 molecular function] (2); nucleic acid binding [GO:0003676 molecular function] (2); DNA binding [GO:0003677 molecular function] (2)	Nuclease, RNA-splicing factor SPF27 [IPR008409] (2)	scaffold_1_mRNA_1705.1	C_unshiu_00071_mRNA_26.1	-
GF0019641	1	1	0	Putative AC9' transposase (1); Putative 6 AT' half matrix dimerization domain containing protein (1)	Putative AC9' transposase (1); Putative 6 AT' half matrix dimerization domain containing protein (1)	HAT, C-terminal dimerization domain [IPR011990] (2); Tetra-tricopeptide-like helical domain [IPR029180] (2)	scaffold_1_mRNA_1702.1	C_unshiu_00071_mRNA_24.1	-
GF0019640	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1701.1	C_unshiu_00071_mRNA_23.1	-
GF0019638	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1693.1	C_unshiu_00071_mRNA_14.1	-
GF0019637	1	1	0	66 kDa stress protein (2)	protein binding [GO:0005515 molecular function] (2)	WD40-repeat-associated domain [IPR029180] (2); WD40-repeat-containing domain [IPR017986] (2); WD40 repeat [IPR001680] (2); WD40 repeat, conserved site [IPR019775] (2); WD40/YWW repeat-like-containing domain [IPR019491] (2)	scaffold_1_mRNA_1689.1	C_unshiu_00071_mRNA_10.1	-
GF0019636	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1684.1	C_unshiu_00071_mRNA_4.1	-
GF0019635	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1673.1	C_unshiu_00097_mRNA_45.1	-
GF0019634	1	1	0	Hypothetical protein (1); Prostacikopeptide repeat-containing protein, mitochondrial (1)	protein binding [GO:0005515 molecular function] (2)	Tetra-tricopeptide-like helical domain [IPR011990] (2); Prostacikopeptide repeat [IPR028585] (2); Expansin/pollen allergen domain [IPR007112] (1); Prostacikopeptide repeat, double beta-barrel domain [IPR009009] (1)	scaffold_1_mRNA_1670.1	C_unshiu_00097_mRNA_47.1	-
GF0019632	1	1	0	Hypothetical protein (2)		Retrotropinogen gag domain [IPR005162] (2)	scaffold_1_mRNA_1667.1	C_unshiu_02271_mRNA_2.1	-
GF0019631	1	1	0	Transposable element Ac (2)	nucleic acid binding [GO:0003676 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_1_mRNA_1663.1	C_unshiu_02806_mRNA_2.1	-
GF0019630	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1653.1	C_unshiu_00750_mRNA_4.1	-
GF0019628	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1644.1	C_unshiu_00462_mRNA_5.1	-
GF0019627	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1643.1	C_unshiu_00462_mRNA_6.1	-
GF0019626	1	1	0	Hypothetical protein (2)	trehalose biosynthetic process [GO:0005992 biological process] (2); catalytic activity [GO:0003824 molecular function] (2)	Trehalose-phosphatase [IPR003337] (2); HAD-domain [IPR023214] (1)	scaffold_1_mRNA_164.1	C_unshiu_00005_mRNA_65.1	-

ID	Num in <i>C. clementinae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>		
GF0019625	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677]; molecular_function [1]; protein dimerization activity [GO:0046983]; molecular_function [1]; transferase activity, transferring hexosyl groups [GO:0016758]; molecular_function [2]; glycolipid biosynthetic process [GO:009247]; biological_process [6]	Transcription factor, MADS-box [IPR002100] (1)	scaffold_1_mRNA_1632.1	C_unshiu_00667_mRNA_3.1	-		
GF0019624	1	1	0	Hypothetical protein (2)	Diacylglycerol glucosyltransferase, N-terminal [IPR009695] (2)	scaffold_1_mRNA_163.1	C_unshiu_00005_mRNA_64.1	-	-		
GF0019623	1	1	0	Hypothetical protein (2)	[IPR012357] (2); Domain of unknown function [IPR025558] (2); [IPR000477] (2); Zinc knuckle [IPR025834] (2); CX2C4X4H4C [IPR025835] (2); Reverse transcriptase zinc-binding domain [IPR026960] (1)	scaffold_1_mRNA_1628.1	C_unshiu_00667_mRNA_9.1	-	-		
GF0019622	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1627.1	C_unshiu_00667_mRNA_10.1	-	-	-		
GF0019621	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1625.1	C_unshiu_00667_mRNA_13.1	-	-	-		
GF0019620	1	1	0	Putative non-LTR retroelement reverse transcriptase (1); Hypothetical protein (1) molecular_function [2]	[IPR012357] (2); Domain of unknown function [IPR025558] (2); Reverse transcriptase domain [IPR000477] (2); Zinc knuckle [IPR025834] (2); CX2C4X4H4C [IPR025835] (2); Reverse transcriptase zinc-binding domain [IPR026960] (1)	scaffold_1_mRNA_1623.1	C_unshiu_00667_mRNA_15.1	-	-		
GF0019619	1	1	0	Hypothetical protein (2)	[IPR013781] (1)	scaffold_1_mRNA_1621.1	C_unshiu_00910_mRNA_1.1	-	-		
GF0019618	1	1	0	Hypothetical protein (2)	Glycoside hydrolase, catalytic domain [IPR0005975 biological_process] (1)	scaffold_1_mRNA_1617.1	C_unshiu_00910_mRNA_3.1	-	-		
GF0019617	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1613.1	C_unshiu_00910_mRNA_8.1	-	-	-		
GF0019616	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1612.1	C_unshiu_00910_mRNA_9.1	-	-	-		
GF0019614	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1585.1	C_unshiu_00469_mRNA_12.1	-	-	-		
GF0019611	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1578.1	C_unshiu_00598_mRNA_11.1	-	-	-		
GF0019610	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1573.1	C_unshiu_00598_mRNA_6.1	-	-	-		
GF0019609	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1568.1	C_unshiu_01470_mRNA_1.1	-	-	-		
GF0019608	1	1	0	Putative isopentyl peptidase-L-asparaginase 2 (1); Hypothetical protein (1)	hydrolase activity [GO:0016787] (2)	scaffold_1_mRNA_1567.1	C_unshiu_01470_mRNA_2.1	-	-		
GF0019607	1	1	0	Hypothetical protein (2)	vehicle-mediated transport [GO:0016192]; biological_process [2]; vesicle docking involved in exocytosis [GO:0006904 biological_process] (2)	Sec1-like protein [IPR001619] (2); Sec1-like domain [IPR027482] (1)	scaffold_1_mRNA_1560.1	C_unshiu_02288_mRNA_2.1	-	-	
GF0019606	1	1	0	Aldose 1-epimerase (2)	Aldose 1-Glucose- α -phosphate 1-epimerase [PR008183] (2); Galactose mutarotase-like domain [IPR011013] (2); Aldose 1-epimerase [IPR015443] (2); Glycoside hydrolase-type carbohydrate-binding subgroup [IPR014718] (1); Glycoside hydrolase-type carbohydrate-binding [IPR014718] (1)	scaffold_1_mRNA_1552.1	C_unshiu_00604_mRNA_7.1	-	-	-	
GF0019605	1	1	0	Hypothetical protein (2)	[IPR004332] (2)	scaffold_1_mRNA_1551.1	C_unshiu_00604_mRNA_8.1	-	-		
GF0019604	1	1	0	Hypothetical protein (2)	Transposase, MuDR, plant [IPR004332]	scaffold_1_mRNA_1546.1	C_unshiu_00604_mRNA_11.1	-	-		
GF0019602	1	1	0	Hypothetical protein (2)	NAD(P)-binding domain [IPR016040]; (2); phosphoglucomutase [IPR005514] (2); biological_process [2]	scaffold_1_mRNA_1541.1	C_unshiu_00450_mRNA_16.1	-	-	-	
GF0019601	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677]; molecular_function [2]; protohox [GO:000508] (2); biological_process [2]; cysteine-type peptidase activity [GO:0008234 molecular_function] (2)	Zinc finger, BED-type [IPR003656] (2)	scaffold_1_mRNA_1538.1	C_unshiu_00450_mRNA_13.1	-	-	
GF0019600	1	1	0	Hypothetical protein (2)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (2)	scaffold_1_mRNA_1536.1	C_unshiu_00450_mRNA_12.1	-	-	-	
GF0019599	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2)	scaffold_1_mRNA_1531.1	C_unshiu_00450_mRNA_6.1	-	-	-	
GF0019597	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1507.1	C_unshiu_00756_mRNA_8.1	-	-	-		
GF0019596	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1505.1	C_unshiu_00756_mRNA_7.1	-	-	-		
GF0019595	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1493.1	C_unshiu_01400_mRNA_3.1	-	-	-		
GF0019594	1	1	0	Oster arm dynein light chain 1 protein (2)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat [IPR001611] (2); Leucine rich repeat 4 [IPR025875] (1)	scaffold_1_mRNA_1491.1	C_unshiu_00145_mRNA_72.1	-	-	
GF0019593	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1490.1	C_unshiu_00145_mRNA_71.1	-	-	-		
GF0019592	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1484.1	C_unshiu_00145_mRNA_64.1	-	-	-		
GF0019591	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270] Peptidase, A2A, serine-, catalytic molecular_function [2]; aspartic-type endopeptidase activity [GO:0004190 molecular_function] (2); nucleic acid binding [IPR0005676] (2)	Peptidase, A2A, serine-, catalytic domain [IPR001951] (2); Reverse transpeptidase domain [IPR000477] (2); Retropepsin [IPR018061] (2); Zinc finger, CHC-type [IPR001878] (2); Aspartic peptidase domain [IPR021109] (2)	scaffold_1_mRNA_1477.1	C_unshiu_00145_mRNA_57.1	-	-	
GF0019590	1	1	0	Hypothetical protein (2)	[IPR00145] (2)	scaffold_1_mRNA_1475.1	C_unshiu_00145_mRNA_55.1	-	-	-	
GF0019589	1	1	0	Hypothetical protein (2)	Transposon, EnSpm-like [IPR004242] (2)	scaffold_1_mRNA_1468.1	C_unshiu_02111_mRNA_4.1	-	-	-	
GF0019588	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1467.1	C_unshiu_00470_mRNA_31.1	-	-	-		
GF0019587	1	1	0	Hypothetical protein (2)	one-carbon metabolic process [GO:0006730 biological_process] (1); adenosylhomocysteine activity [GO:0004013 molecular_function] (1)	NAD(P)-binding domain [IPR016040] (2); Sadenosyl-L-homocysteine hydrolase, NAD binding domain [IPR015878] (2); Adenosylhomocysteinate [PR000043] (2); Adenosylhomocysteinate-like [PR000043] (1)	scaffold_1_mRNA_1466.1	C_unshiu_00470_mRNA_30.1	-	-	-
GF0019586	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1460.1	C_unshiu_00470_mRNA_28.1	-	-	-		
GF0019585	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1458.1	C_unshiu_00470_mRNA_26.1	-	-	-		
GF0019584	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1456.1	C_unshiu_00470_mRNA_22.1	-	-	-		
GF0019583	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1451.1	C_unshiu_00470_mRNA_17.1	-	-	-		
GF0019582	1	1	0	ARM repeat superfamily protein isoform 0 (1)	binding [GO:0005488 molecular_function] (2); protein binding [GO:000515 molecular_function] (2)	Armadillo-like helical [IPR01989] (2); Armadillo [IPR000225] (2); Armadillo-type fold [IPR016024] (2)	scaffold_1_mRNA_1451	C_unshiu_00065_mRNA_48.1	-	-	
GF0019581	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1448.1	C_unshiu_01388_mRNA_4.1	-	-	-		
GF0019580	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1444.1	C_unshiu_00470_mRNA_11.1	-	-	-		
GF0019579	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1443.1	C_unshiu_00470_mRNA_10.1	-	-	-		
GF0019578	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1433.1	C_unshiu_00864_mRNA_11.1	-	-	-		
GF0019577	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1432.1	C_unshiu_00864_mRNA_13.1	-	-	-		
GF0019576	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1428.1	C_unshiu_00393_mRNA_10.1	-	-	-		
GF0019575	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1426.1	C_unshiu_00393_mRNA_7.1	-	-	-		
GF0019574	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1425.1	C_unshiu_00393_mRNA_4.1	-	-	-		
GF0019573	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1423.1	C_unshiu_02293_mRNA_4.1	-	-	-		
GF0019571	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1414.1	C_unshiu_00138_mRNA_41.1	-	-	-		
GF0019570	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1405.1	C_unshiu_01933_mRNA_10.1	-	-	-		
GF0019569	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1404.1	C_unshiu_01933_mRNA_9.1	-	-	-		
GF0019568	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1403.1	C_unshiu_01933_mRNA_8.1	-	-	-		
GF0019567	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1402.1	C_unshiu_00816_mRNA_2.1	-	-	-		
GF0019566	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1396.1	C_unshiu_00816_mRNA_3.1	-	-	-		
GF0019565	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1395.1	C_unshiu_00816_mRNA_4.1	-	-	-		
GF0019564	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1383.1	C_unshiu_00816_mRNA_10.1	-	-	-		
GF0019563	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1368.1	C_unshiu_00128_mRNA_48.1	-	-	-		
GF0019561	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1356.1	C_unshiu_00796_mRNA_4.1	-	-	-		
GF0019560	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1345.1	C_unshiu_00360_mRNA_18.1	-	-	-		
GF0019559	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1330.1	C_unshiu_01540_mRNA_6.1	-	-	-		
GF0019558	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1322.1	C_unshiu_00156_mRNA_23.1	-	-	-		
GF0019557	1	1	0	Integral membrane protein (2)	scaffold_1_mRNA_1320.1	C_unshiu_00156_mRNA_20.1	-	-	-		
GF0019556	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1316.1	C_unshiu_00156_mRNA_15.1	-	-	-		
GF0019555	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1312.1	C_unshiu_00270_mRNA_17.1	-	-	-		
GF0019554	1	1	0	Putative ribonuclease H protein (2)	Domain of unknown function DUF4219 [IPR025314] (2)	scaffold_1_mRNA_1306.1	C_unshiu_00270_mRNA_13.1	-	-	-	
GF0019553	1	1	0	Putative protein (2)	Reverse transcriptase zinc-binding domain [IPR026960] (2)	scaffold_1_mRNA_1305.1	C_unshiu_00270_mRNA_12.1	-	-	-	
GF0019552	1	1	0	(Reverse transcriptase) (1); Hypothetical protein (1)	Reverse transcriptase domain [IPR000477] (2)	scaffold_1_mRNA_1304.1	C_unshiu_00270_mRNA_10.1	-	-	-	
GF0019550	1	1	0	Putative nucleic acid-binding protein (2)	scaffold_1_mRNA_1298.1	C_unshiu_00354_mRNA_9.1	-	-	-		
GF0019549	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1281.1	C_unshiu_00364_mRNA_18.1	-	-	-		
GF0019548	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1279.1	C_unshiu_00201_mRNA_27.1	-	-	-		
GF0019547	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1278.1	C_unshiu_00201_mRNA_26.1	-	-	-		
GF0019546	1	1	0	Putative nucleic acid-binding protein (2)	AGC-kinase, C-terminal [IPR009691] (2); Protein kinase, ATP binding site [IPR01941] (2); Serine/threonine kinase domain [IPR000271] (2); Protein kinase-like domain [IPR000719] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1)	scaffold_1_mRNA_1277.1	C_unshiu_00201_mRNA_25.1	-	-	-	
GF0019545	1	1	0	Putative nucleic acid-binding protein (2)	Harbinger transposase-derived nucleic acid domain [IPR027806] (2)	scaffold_1_mRNA_1276.1	C_unshiu_00201_mRNA_24.1	-	-	-	
GF0019544	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1267.1	C_unshiu_00368_mRNA_17.1	-	-	-		
GF0019543	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1266.1	C_unshiu_00368_mRNA_16.1	-	-	-		
GF0019542	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1261.1	C_unshiu_00242_mRNA_22.1	-	-	-		
GF0019541	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1259.1	C_unshiu_00242_mRNA_20.1	-	-	-		
GF0019540	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1258.1	C_unshiu_00242_mRNA_19.1	-	-	-		
GF0019539	1	1	0	Hypothetical protein (2)	scaffold_1_mRNA_1243.1	C_unshiu_00398_mRNA_19.1	-	-	-		

ID	Num. in <i>C. clementiae</i>	Num. in <i>C. umshiu</i>	Num. in <i>P. trifoliata</i>	Name	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. umshiu</i>	Members in <i>P. trifoliata</i>
GF0019538	1	1	0	Ribonuclease H, putative (2)	RNA-directed DNA polymerase ; Zinc ion binding [GO:0008270 molecular function] (2); nucleic acid binding [GO:0003676 molecular function] (2)	Endonuclease/exonuclease/phosphatase [IPR005135] (2); Zinc finger, CCHC-type [IPR025836] (2); Zinc knuckle CX2CX4HX4C-type [IPR001878] (2); Domain of unknown function DU4283 [IPR025558] (2)	scaffold_1_mRNA_1234.1	C_umshiu_00055_mRNA_9.1	-
GF0019537	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1233.1	C_umshiu_00398_mRNA_9.1	-
GF0019536	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1232.1	C_umshiu_00398_mRNA_8.1	-
GF0019535	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1227.1	C_umshiu_00177_mRNA_12.1	-
GF0019533	1	1	0	Mitochondrial transcription termination factor family protein, putative isoform 2 (2)	Mitochondrial transcription termination factor [GO:0003690 molecular function] (2); regulation of transcription, DNA-templated [GO:0006355 biological process] (2); mitochondrial [GO:0005739 cellular component] (1)	Mitochondrial transcription termination factor [IPR003690] (1); Transcription termination factor, mitochondrial/chloroplastic [IPR003690] (1)	scaffold_1_mRNA_1219.1	C_umshiu_00613_mRNA_2.1	-
GF0019532	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1218.1	C_umshiu_00613_mRNA_3.1	-
GF0019531	1	1	0	Cytokinin riboside 5'-monophosphate phosphoribohydrolase (1); Hypothetical protein (1)	LOG family [IPR031100] (1)	scaffold_1_mRNA_1215.1	C_umshiu_00613_mRNA_5.1	-	
GF0019530	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1214.1	C_umshiu_00613_mRNA_6.1	-
GF0019529	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1213.1	C_umshiu_00613_mRNA_7.1	-
GF0019528	1	1	0	Reovirus-related pol polyprotein from transpon sat I-94 (1); Hypothetical protein (1)	GAG-pre-integrase domain [IPR025724] (1)	scaffold_1_mRNA_1210.1	C_umshiu_00613_mRNA_13.1	-	
GF0019526	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1200.1	C_umshiu_00270_mRNA_22.1	-
GF0019525	1	1	0	Hypothetical protein (2)	Zinc ion binding [GO:0008270 molecular function] (2); aspartic-type endopeptidase activity [GO:0004190 molecular function] (2); nucleic acid binding [GO:0003676 molecular function] (2); proteolysis [GO:0006508 biological process] (2); oxoreductase activity, involved in CH-OH group reduction [GO:000144 molecular function] (1); cytokinin metabolic process [GO:0009899 biological process] (1); catalytic activity [GO:0003824 molecular function] (1); cytokinin riboside kinase activity [GO:0001749 molecular function] (1); oxidation-reduction process [GO:005114 biological process] (1); flavin adenine dinucleotide binding [GO:0050660 molecular function] (1)	Aspartic-peptidase domain [IPR021109] (2); Zinc-finger CCHC-type [IPR001879] (2); Aspartic-peptidase active site [IPR01969] (2); Peptidase A2A, retrovirus, catalytic [IPR001995] (2); Vanillyl-alcohol oxidase/Cytokinin dehydrogenase C-terminal domain [IPR016109] (1); Cytidine deoxyribonucleotidyl transferase/FAD-binding domain [IPR016169] (1); FAD-binding, type 2 [IPR016166] (1); Reductase [IPR016161] (1); Cytokinin dehydrogenase/FAD-cytokinin binding domain [IPR015345] (1); FAD-linked oxidase-like, C-terminal [IPR016164] (1)	scaffold_1_mRNA_1191.1	C_umshiu_00099_mRNA_8.1	-
GF0019524	1	1	0	Hypothetical protein (2)	-	-	-	-	-
GF0019523	1	1	0	Hypothetical protein (2)	integral component of membrane	scaffold_1_mRNA_1180.1	C_umshiu_00039_mRNA_31.1	-	
GF0019522	1	1	0	Shikimate kinase (2)	[GO:0016021 cellular_component] (2); transport [GO:0006810 biological_process] (2)	Folate-bisphoterin transporter [IPR004324] (2); Major facilitator superfamily domain [IPR020846] (2)	scaffold_1_mRNA_118.1	C_umshiu_00005_mRNA_20.1	-
GF0019521	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1175.1	C_umshiu_00385_mRNA_10.1	-
GF0019520	1	1	0	Pol polyprotein (1); Hypothetical protein (1)	-	-	scaffold_1_mRNA_1174.1	C_umshiu_00385_mRNA_9.1	-
GF0019519	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1173.1	C_umshiu_00385_mRNA_8.1	-
GF0019518	1	1	0	Hypothetical protein (2)	DnaJ domain [IPR001623] (2); DnaJ domain, conserved site [IPR018253] (2)	scaffold_1_mRNA_1172.1	C_umshiu_00385_mRNA_7.1	-	
GF0019517	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1169.1	C_umshiu_00385_mRNA_4.1	-
GF0019516	1	1	0	Hypothetical protein (2)	Aspartic peptidase domain [IPR021109] (1)	scaffold_1_mRNA_1166.1	C_umshiu_00867_mRNA_14.1	-	
GF0019515	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1163.1	C_umshiu_00867_mRNA_16.1	-
GF0019514	1	1	0	Hypothetical protein (2)	Aspartic peptidase domain [IPR021109] (1)	scaffold_1_mRNA_1162.1	C_umshiu_00867_mRNA_15.1	-	
GF0019513	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1161.1	C_umshiu_02478_mRNA_2.1	-
GF0019512	1	1	0	Similarity to non-LTR retroelement	-	-	scaffold_1_mRNA_1160.1	C_umshiu_00867_mRNA_13.1	-
GF0019511	1	1	0	reverse transcriptase (2)	-	-	scaffold_1_mRNA_1159.1	C_umshiu_00867_mRNA_12.1	-
GF0019510	1	1	0	Hypothetical protein (2)	Retrotransposon gag domain	scaffold_1_mRNA_1156.1	C_umshiu_00867_mRNA_8.1	-	
GF0019509	1	1	0	Hypothetical protein (2)	[IPR005162] (2)	scaffold_1_mRNA_1155.1	C_umshiu_00867_mRNA_7.1	-	
GF0019508	1	1	0	Hypothetical protein (2)	Zinc finger, SWIM-type [IPR005327] (2); Zinc finger, PMZ-type [IPR006564] (2); MULE transposase domain [IPR018289] (1)	scaffold_1_mRNA_1140.1	C_umshiu_00191_mRNA_6.1	-	
GF0019507	1	1	0	Hypothetical protein (2)	oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0004505 molecular function] (2); oxidation-reduction process [GO:00055114 biological process] (2); iron ion binding [GO:0005506 molecular function] (2); heme binding [GO:0020037 molecular function] (2)	Cytochrome P450 [IPR00128] (2); Cytochrome P450, conserved site [IPR017972] (2); Cytochrome P450, E-class, group I [IPR002401] (2)	scaffold_1_mRNA_1136.1	C_umshiu_00191_mRNA_10.1	-
GF0019506	1	1	0	Cytochrome P450 76AD1-like protein (2)	-	-	-	-	-
GF0019505	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1131.1	C_umshiu_00191_mRNA_14.1	-
GF0019504	1	1	0	Retrotansposon protein, putative, Ty-I copia subclass (2)	nucleic acid binding [GO:0003676 molecular function] (1); zinc ion binding [GO:0008270 molecular function] (1)	GAG-pre-integrase domain [IPR025724] (2); Zinc-finger CCHC-type [IPR001878] (1); Reverse transcriptase, RNA-dependent DNA polymerase [IPR013103] (1)	scaffold_1_mRNA_1128.1	C_umshiu_00191_mRNA_17.1	-
GF0019503	1	1	0	Hypothetical protein (2)	oxidation-reduction process	Oxidoreductase FAD/NAD(P)-binding [IPR001433] (1)	scaffold_1_mRNA_1123.1	C_umshiu_01200_mRNA_4.1	-
GF0019502	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1122.1	C_umshiu_01200_mRNA_5.1	-
GF0019501	1	1	0	Hypothetical protein (2)	putative biosynthetic process [GO:0043043 biological process] (2); cytoplasm [GO:0005737 cellular_component] (2)	Translation elongation factor P/YefP, conserved site [IPR013852] (2); Elongation factor P, bacterial [IPR013565] (2); nucleic acid-binding, OBD-fold [IPR012340] (2)	scaffold_1_mRNA_1119.1	C_umshiu_01200_mRNA_8.1	-
GF0019500	1	1	0	Hypothetical protein (2)	Harbinger transposase-derived核酸 domain [IPR027806] (2)	scaffold_1_mRNA_1118.1	C_umshiu_01200_mRNA_9.1	-	
GF0019499	1	1	0	Hypothetical protein (2)	Zinc knuckle CX2CX4HX4C [IPR025836] (2)	scaffold_1_mRNA_1105.1	C_umshiu_00087_mRNA_12.1	-	
GF0019498	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1102.1	C_umshiu_00087_mRNA_14.1	-
GF0019497	1	1	0	Non-LTR retroelement reverse transcriptase-like (1); Non-LTR retroelement reverse transcriptase (1)	nucleic acid binding [GO:0003676 molecular function] (2)	Reverse transcriptase zinc-binding domain [IPR026960] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_1_mRNA_1094.1	C_umshiu_00087_mRNA_19.1	-
GF0019495	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1083.1	C_umshiu_00198_mRNA_21.1	-
GF0019494	1	1	0	Transposon protein, putative, Mutator sub-class (2)	DNA binding [GO:0003677 molecular function] (2); transposition [GO:0006313 biological process] (2); transposase activity [GO:0004803 molecular function] (2)	MULE transposase domain [IPR018289] (2); Transposase, mutator type [IPR001297] (2); Transposase, MuDR, plant [IPR004332] (2)	scaffold_1_mRNA_1080.1	C_umshiu_00198_mRNA_17.1	-
GF0019493	1	1	0	Effector of transcription2, putative (2)	GIV-YIG nucleic superfamily [IPR000305] (1)	scaffold_1_mRNA_1067.1	C_umshiu_00156_mRNA_11.1	-	
GF0019492	1	1	0	Serine acetyltransferase (2)	Hexapeptide repeat [IPR001451] (2); Serine acetyltransferase, N-terminal [IPR010493] (2); Hexapeptide transferase, conserved site [IPR010457] (2); Hexapeptide LpxA-like [IPR010044] (2); Serine Acetyltransferase [IPR005881] (2)	scaffold_1_mRNA_1066.1	C_umshiu_00156_mRNA_10.1	-	
GF0019491	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1060.1	C_umshiu_00156_mRNA_3.1	-
GF0019490	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1056.1	C_umshiu_00579_mRNA_7.1	-
GF0019489	1	1	0	Hypothetical protein (2)	Plant self-incompatibility S1 [IPR010264] (2)	scaffold_1_mRNA_1045.1	C_umshiu_00296_mRNA_4.1	-	
GF0019487	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1029.1	C_umshiu_00942_mRNA_3.1	-
GF0019486	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular function] (2); protein dimerization activity [GO:0046983 molecular function] (2)	HAT, C-terminal dimerisation domain [IPR008906] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_1_mRNA_1022.1	C_umshiu_00584_mRNA_12.1	-
GF0019485	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1013.1	C_umshiu_00584_mRNA_31.1	-
GF0019484	1	1	0	Aspartic proteinase nepenthesin-1 (2)	aspartic-type endopeptidase activity [GO:0004190 molecular function] (2); proteolysis [GO:0006508 biological process] (2)	Aspartic peptidase domain [IPR021109] (2); Peptidase family A1 domain [IPR033121] (2); Xylanase inhibitor, N-terminal [IPR032861] (2); Xylanase inhibitor, C-terminal [IPR032862] (2)	scaffold_1_mRNA_101.1	C_umshiu_00129_mRNA_1.1	-
GF0019483	1	1	0	Myo-inositol oxygenase 2 isoform 2 (1); Hypothetical protein (1)	cytoplasm [GO:0005737 cellular_component] (2); oxidation-reduction process [GO:0005514 biological process] (2); myo-inositol catabolic process [GO:0019130 biological process] (2); myo-inositol oxygenase activity [GO:0050113 molecular function] (2); iron ion binding [GO:0005506 molecular function] (2)	Inositol oxygenase [IPR007828] (2)	scaffold_1_mRNA_1007.1	C_umshiu_00032_mRNA_5.1	-
GF0019482	1	1	0	Hypothetical protein (2)	-	-	scaffold_1_mRNA_1006.1	C_umshiu_00032_mRNA_4.1	-

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF001885	1	2	0	Cyclic nucleotide-gated ion channel I (3)	Cyclic nucleotide-binding domain [GO:000595] (3); RnfC-like jelly roll fold [IPR014710] (3); Cyclic nucleotide-binding-like [IPR018490] (3)	scaffold_9_mRNA_3703.1	C.unshiu_00740_mRNA_6.1.C._unshiu_ .00740_mRNA_9.1		
GF0018605	1	2	0	Hypothetical protein (3)	Viral movement protein [IPR028919] (3)	scaffold_9_mRNA_3352.1	C.unshiu_00017_mRNA_59.1.C._unshiu_ .017_mRNA_2.1		
GF0018511	1	2	0	Ozone-responsive stress related protein		scaffold_9_mRNA_3128.1	C.unshiu_00053_mRNA_1.1.C._unshiu_ .02129_mRNA_3.1		
GF0018445	1	2	0	(2); Hypothetical protein (1)	Protein of unknown function DUF1138 [IPR009515] (3)	scaffold_9_mRNA_2993.1	C.unshiu_00574_mRNA_14.1.C._unshiu_ .00574_mRNA_3.1		
GF0018443	1	2	0	DUF642 family protein (3)	Galactose-binding domain-like [IPR008797] (3); Domain of unknown function DUF642 [IPR006462] (3)	scaffold_9_mRNA_2989.1	C.unshiu_01689_mRNA_3.1.C._unshiu_ .02440_mRNA_2.1		
GF0018427	1	2	0	CDP-diacylglycerol-inositol 3-phosphatidyltransferase (3)	phosphatidyl biosynthetic process [GO:000654 biological_process] (3); membrane [GO:0016020 cellular_component] (3); phosphotransferase activity, for other substituted phosphate groups [GO:0001780 molecular_function] (3)	CDP-diacylglycerol-inositol 3-phosphatidyltransferase, eukaryote [IPR014387] (3); CDPAcylphosphatidyltransferase [IPR000462] (3)	scaffold_9_mRNA_2905.1	C.unshiu_00132_mRNA_7.1.C._unshiu_ .02260_mRNA_1.1	
GF0018392	1	2	0	MuDR family transposase isoform I (2); Putative mdrD family transposase-like (1)	Transposase MuDR, plant [IPR043132] (3); Transposase, matator type [IPR001207] (3); Zinc finger, SWIM-type [IPR007527] (3); Zinc finger, BED-type [IPR036366] (1); Zinc finger, PMZ-type [IPR006124] (1)	scaffold_9_mRNA_2778.1	C.unshiu_01023_mRNA_1.1.C._unshiu_ .01118_mRNA_1.1		
GF0018373	1	2	0	Zinc knuckle family protein (3)	Zinc finger, CCHC-type [IPR001878] (3)	scaffold_9_mRNA_2717.1	C.unshiu_00292_mRNA_34.1.C._unshiu_ .00324_mRNA_8.1		
GF0018309	1	2	0	Cytchrome P450 (3)	Cytochrome P450, conserved site [IPR017972] (3); Cytochrome P450, E-class, group I [IPR02401] (3); Cytochrome P450 [IPR001128] (3)	scaffold_9_mRNA_2521.1	C.unshiu_00345_mRNA_14.1.C._unshiu_ .01737_mRNA_5.1		
GF0018307	1	2	0	Hypothetical protein (3)		scaffold_9_mRNA_2506.1	C.unshiu_00755_mRNA_7.1.C._unshiu_ .01000_mRNA_2.1		
GF0018295	1	2	0	Hypothetical protein (3)		scaffold_9_mRNA_2456.1	C.unshiu_00011_mRNA_74.1.C._unshiu_ .02904_mRNA_4.1		
GF0018282	1	2	0	Hypothetical protein (3)		scaffold_9_mRNA_2394.1	C.unshiu_01098_mRNA_4.1.C._unshiu_ .01106_mRNA_11.1		
GF0018204	1	2	0	Hypothetical protein (3)		scaffold_9_mRNA_2043.1	C.unshiu_00385_mRNA_11.1.C._unshiu_ .01691_mRNA_3.1		
GF0018109	1	2	0	Hypothetical protein (3)		scaffold_9_mRNA_1758.1	C.unshiu_00032_mRNA_24.1.C._unshiu_ .00629_mRNA_9.1		
GF0018095	1	2	0	Hypothetical protein (2); Ta11 non-LTR retroelement protein-like (1)	Domain of unknown function DUF4283 [IPR025558] (3); Zinc knuckle CX2CX4HX4C [IPR025836] (1)	scaffold_9_mRNA_1700.1	C.unshiu_00032_mRNA_42.1.C._unshiu_ .00211_mRNA_14.1		
GF0018085	1	2	0	Hypothetical protein (2); Far-red impaired responsive 1-like protein (1)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (3); oxidation-reduction activity [GO:0055114 biological_process] (3)	FAR1 DNA binding domain [IPR004330] (3); FHY3/FAR1 family [IPR031052] (3); MULE transposase domain [IPR01289] (2)	scaffold_9_mRNA_1669.1	C.unshiu_00294_mRNA_12.1.C._unshiu_ .01009_mRNA_9.1	
GF0018077	1	2	0	Transposon protein, putative, unclassified (2); FOG: Transposon-encoded proteins with TWA, reverse transcriptase, integrase domains in various combinations (1)	nucleic acid binding [GO:0003676 molecular_function] (3); zinc ion binding [GO:0008270 molecular_function] (3)	Zinc finger, CCHC-type [IPR001878] (3)	scaffold_9_mRNA_1622.1	C.unshiu_00086_mRNA_4.1.C._unshiu_ .01107_mRNA_11.1	
GF0018067	1	2	0	UBX domain protein (3)	protein binding [GO:0005515 molecular_function] (3)	UBA-like domain [IPR009060] (3); UAS [IPR006577] (3); Thioester-domain like fold [IPR012336] (3); UBX domain [IPR001012] (2); Ubiquitin-containing domain [IPR029071] (2); UBX domain-containing protein 2/7 [IPR017346] (2)	scaffold_9_mRNA_1582.1	C.unshiu_01176_mRNA_7.1.C._unshiu_ .02187_mRNA_2.1	
GF0018057	1	2	0	Hypothetical protein (3)		MULE transposase domain [IPR018289] (3)	scaffold_9_mRNA_1511.1	C.unshiu_00122_mRNA_19.1.C._unshiu_ .01258_mRNA_9.1	
GF0018052	1	2	0	Hypothetical protein (2); Monosaccharide transport protein (1)		scaffold_9_mRNA_1505.1	C.unshiu_00028_mRNA_46.1.C._unshiu_ .00414_mRNA_16.1		
GF0018036	1	2	0	Putative methyltransferase PMT20 (3)	methyltransferase activity [GO:0008168 molecular_function] (3)	Putative S-adenosyl-L-methionine-dependent methyltransferase [IPR004159] (3); S-adenosyl-L-methionine-dependent methyltransferase domain [IPR001245] (2)	scaffold_9_mRNA_1459.1	C.unshiu_00131_mRNA_9.2.C._unshiu_ .00351_mRNA_8.2	
GF0018011	1	2	0	Hypothetical protein (3)	protein kinase activity [GO:0004672 molecular_function] (3); protein phosphorylation [GO:0006468 biological_process] (3); ATP binding [GO:0005524 molecular_function] (3)	Protein kinase-like domain [IPR001009] (3); Protein kinase domain [IPR000719] (3); Protein Kinase ATP binding site [IPR017441] (3); Serine-threonine-protein kinase, active site [IPR008271] (3); Serine-threonine-protein kinase catalytic domain [IPR001245] (2); Serine-threonine-dual specificity protein kinase, catalytic domain [IPR002290] (2); Serine-threonine-tyrosine-protein kinase, catalytic domain [IPR001245] (1)	scaffold_9_mRNA_1363.1	C.unshiu_00057_mRNA_6.1.C._unshiu_ .00344_mRNA_29.1	
GF0018010	1	2	0	Hypothetical protein (3)	protein binding [GO:0005515 molecular_function] (3)	PB1 domain [IPR002070] (3)	scaffold_9_mRNA_1362.1	C.unshiu_00057_mRNA_7.1.C._unshiu_ .00344_mRNA_30.1	
GF0017888	1	2	0	Hypothetical protein (3)		scaffold_8_mRNA_953.1	C.unshiu_00203_mRNA_4.1.C._unshiu_ .02725_mRNA_4.1		
GF0017883	1	2	0	Penetrinopeptide (PPR) repeat protein (3)	protein binding [GO:0005515 molecular_function] (2)	Penetrinopeptide repeat [IPR002885] (3); Tetrapeptide-like helical domain [IPR011990] (2)	scaffold_8_mRNA_946.1	C.unshiu_01262_mRNA_1.1.C._unshiu_ .01415_mRNA_3.1	
GF0017849	1	2	0	Hypothetical protein (3)	calmodulin binding [GO:0005516 molecular_function] (3)	Calcium-transporting P-type ATPase, N-terminal automodulatory domain [IPR024750] (3)	scaffold_8_mRNA_877.1	C.unshiu_01185_mRNA_5.1.C._unshiu_ .02065_mRNA_4.1	
GF0017822	1	2	0	Pectinesterase 31 (3)	cell wall modification [GO:0042454 biological_process] (3); cell wall [GO:000618 cellular_component] (3); pectinesterase activity [GO:0030599 molecular_function] (3)	Pectin lyase fold/virulence factor [IPR011050] (3); Pectinesterase, catalytic [IPR000070] (3); Pectin lyase fold [IPR012334] (3)	scaffold_8_mRNA_796.1	C.unshiu_01962_mRNA_1.1.C._unshiu_ .02198_mRNA_1.1	
GF0017803	1	2	0	Hypothetical protein (3)		scaffold_8_mRNA_758.1	C.unshiu_00085_mRNA_5.1.C._unshiu_ .02196_mRNA_1.1		
GF0017791	1	2	0	DUF241 domain protein (3)	Protein of unknown function DUF241, plant [IPR004320] (3)	scaffold_8_mRNA_72.1	C.unshiu_00041_mRNA_14.1.C._unshiu_ .00041_mRNA_16.1		
GF0017668	1	2	0	Family protein (2); Hypothetical protein (1)		Uncharacterised protein family, basic secretory protein [IPR007541] (3)	scaffold_8_mRNA_398.1	C.unshiu_00363_mRNA_9.1.C._unshiu_ .02320_mRNA_3.1	
GF0017431	1	2	0	ATP synthase subunit epsilon (3)		scaffold_8_mRNA_2981.1	C.unshiu_00375_mRNA_17.1.C._unshiu_ .00571_mRNA_5.1		
GF0017430	1	2	0	Palmitoyltransferase (2); Hypothetical protein (1)	zinc ion binding [GO:0008270 molecular_function] (2)	Palmitoyltransferase [IPR001594] (2); Palmitoyltransferase, DHHC domain [IPR001594] (1)	scaffold_8_mRNA_2978.1	C.unshiu_00375_mRNA_20.1.C._unshiu_ .00571_mRNA_8.1	
GF0017218	1	2	0	Hypothetical protein (3)	metabolic process [GO:0008152 biological_process] (3); transferase activity, transferring hexosyl groups [GO:001758 molecular_function] (1)	UDP-glucuronosyl UDP-glucuronyltransferase [IPR002213] (1)	scaffold_8_mRNA_2576.1	C.unshiu_00320_mRNA_24.1.C._unshiu_ .01839_mRNA_1.1	
GF0017200	1	2	0	Nucleic acid binding / zinc ion binding protein (2); Hypothetical protein (1)	nucleic acid binding [GO:0003676 molecular_function] (3); zinc ion binding [GO:0008324 molecular_function] (2)	Zinc knuckle CX2CX4HX4C [IPR025836] (3); Domains of unknown function DUF4283 [IPR025558] (3); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_8_mRNA_2543.1	C.unshiu_00055_mRNA_8.1.C._unshiu_ .02387_mRNA_1.1	
GF0017148	1	2	0	Hypothetical protein (3)		Cation efflux protein [IPR002524] (3); Cation efflux protein transmembrane domain [IPR027469] (2)	scaffold_8_mRNA_2380.1	C.unshiu_00413_mRNA_19.1.C._unshiu_ .01166_mRNA_3.1	
GF0017080	1	2	0	Putative metal tolerance protein 4-like (3)	transmembrane transport [GO:0005085 biological_process] (3); integral component of membrane [GO:0016021 cellular_component] (3); cation transmembrane transporter activity [GO:0008324 molecular_function] (3); cation transport [GO:0006812 biological_process] (3)	Penetrinopeptide repeat [IPR002885] (3); Tetrapeptide-like helical domain [IPR011990] (1)	scaffold_8_mRNA_2134.1	C.unshiu_00693_mRNA_11.1.C._unshiu_ .00940_mRNA_1.1	
GF0017059	1	2	0	Ribosomal protein L15 (3)	protein binding [GO:0005515 molecular_function] (1)	scaffold_8_mRNA_2003.1	C.unshiu_00360_mRNA_4.1.C._unshiu_ .01649_mRNA_1.1		
GF0017037	1	2	0	Hypothetical protein (3)		Bromelain-like domain [IPR012337] (2); Integrase, catalytic core [IPR001584] (2); Aspartic protease domain [IPR021109] (1)	scaffold_8_mRNA_1993.1	C.unshiu_00087_mRNA_24.1.C._unshiu_ .01302_mRNA_6.1	
GF0017033	1	2	0	Hypothetical protein (3); Retropseudogene	DNA integration [GO:0015074 biological_process] (2); nucleic acid binding [GO:0005676 molecular_function] (2)	Aspartic-type endopeptidase activity [GO:0004190 molecular_function] (1); proteolysis [GO:0006508 biological_process] (1)	scaffold_8_mRNA_1984.1	C.unshiu_00222_mRNA_6.1.C._unshiu_ .00527_mRNA_26.1	
GF0017029	1	2	0	Hypothetical protein (3)		Aspartic peptidase, active site [IPR001969] (1); Retropseudogene [IPR018061] (1); Aspartic peptidase domain [IPR021109] (1)	scaffold_8_mRNA_1973.1	C.unshiu_00011_mRNA_4.1.C._unshiu_ .02335_mRNA_2.1	
GF0017026	1	2	0	Hypothetical protein (3)	proteolysis [GO:0006508 biological_process] (1); aspartic-type endopeptidase activity [GO:0004190 molecular_function] (1)	Aspartic-peptidase domain [IPR021109] (1); Aspartic peptidase, active site [IPR001969] (1)	scaffold_8_mRNA_1821.1	C.unshiu_01216_mRNA_5.1.C._unshiu_ .01419_mRNA_5.1	
GF0016998	1	2	0	Hypothetical protein (3)					

ID	Num. in <i>C. clementine</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>C. aurantium</i>	Members in <i>P. trifoliata</i>
GF0016973	1	2	0	Hypothetical protein (3)	Domain of unknown function DUF4219 [IPR025314] (3); protein dimerization activity [GO:0046983 molecular function] (3); nucleic acid binding [GO:0003676 molecular function] (3); DNA binding [GO:0003677 molecular function] (1)	scaffold_8_mRNA_1746.1	C.unshiu_00100_mRNA_39.1,C.unshiu_00213_mRNA_57.1			
GF0016952	1	2	0	BED zinc finger,hAT family dimerization domain (2); Transposable element Ac (1)	HAT, C-terminal dimerisation domain [IPR008906] (3); Ribonuclease H-like domain [IPR012337] (3); hAT-like transposase, RNase-H fold [IPR025525] (1)	scaffold_8_mRNA_1678.1	C.unshiu_00321_mRNA_12.1,C.unshiu_01985_mRNA_1.1			
GF0016931	1	2	0	Hypothetical protein (3)		scaffold_8_mRNA_1505.1	C.unshiu_00177_mRNA_33.1,C.unshiu_01030_mRNA_15.1			
GF0016929	1	2	0	Hydroxyproline-rich glycoprotein family protein, putative (3)		scaffold_8_mRNA_1502.1	C.unshiu_00151_mRNA_21.1,C.unshiu_02832_mRNA_2.1			
GF0016907	1	2	0	Hypothetical protein (3)		scaffold_8_mRNA_1381.1	C.unshiu_00244_mRNA_7.1,C.unshiu_01040_mRNA_1.1			
GF0016906	1	2	0	Hypothetical protein (3)		scaffold_8_mRNA_1365.1	C.unshiu_00244_mRNA_2.1,C.unshiu_01081_mRNA_5.1			
GF0016890	1	2	0	Hypothetical protein (3)	HAD-like domain [IPR023214] (3); FCP1 homology domain [IPR004274] (3)	scaffold_8_mRNA_1310.1	C.unshiu_00059_mRNA_11.1,C.unshiu_01482_mRNA_3.1			
GF0016882	1	2	0	Hypothetical protein (3)		scaffold_8_mRNA_1260.1	C.unshiu_02026_mRNA_2.1,C.unshiu_02519_mRNA_1.1			
GF0016872	1	2	0	Lectin (3)	carbohydrate binding [GO:0032046 molecular function] (3)			C.unshiu_00694_mRNA_15.1,C.unshiu_00694_mRNA_16.1		
GF0016869	1	2	0	Sodium/hydrogen antiporter 1 isoform 1 (3)	transmembrane transport [GO:0055085 biological process] (3); integral membrane component [GO:0016021 cellular component] (3)			C.unshiu_01085_mRNA_8.1,C.unshiu_02035_mRNA_3.1		
GF0016864	1	2	0	Bergamotene oxidase (1); TSA: Wollenia nubilis transcribed RNA sequence (1)	Geraniol 10-hydroxylase (1); Bergamotene oxidase (1); TSA: Wollenia nubilis transcribed RNA sequence (1)	Cytochrome P450 [IPR00128] (3); Cytochrome P450, E-class, group 1 [IPR00240] (1); Reverse transcriptase zinc-binding domain [IPR026960] (1)	scaffold_8_mRNA_1218.1	C.unshiu_00617_mRNA_16.1,C.unshiu_01730_mRNA_7.1		
GF0016832	1	2	0	Auxin-induced protein X10A (2); Auxin-induced protein 10A5 (1)	Auxin-induced protein X10A (2); Auxin-induced protein 10A5 (1)	Small auxin-up RNA [IPR003676] (3)	scaffold_8_mRNA_1083.1	C.unshiu_00396_mRNA_28.1,C.unshiu_00649_mRNA_9.1		
GF0016822	1	2	0	Auxin-induced protein X10A (3)	Auxin-induced protein X10A (3)	Small auxin-up RNA [IPR003676] (3)	scaffold_8_mRNA_1041.1	C.unshiu_00437_mRNA_16.1,C.unshiu_01573_mRNA_13.1		
GF0016818	1	2	0	Retrotransposon gag protein (2); Hypothetical protein (1)	Retrotransposon gag domain [IPR005162] (3); PIN domain-like [IPR029060] (2); Phosphotribohydronase-like [IPR029657] (1); NYN domain, leucine-rich repeat [IPR021139] (1)		scaffold_8_mRNA_1035.1	C.unshiu_00956_mRNA_11.1,C.unshiu_01859_mRNA_3.1		
GF0016815	1	2	0	Hypothetical protein (3)			scaffold_8_mRNA_1025.1	C.unshiu_00435_mRNA_3.1,C.unshiu_02125_mRNA_2.1		
GF0016764	1	2	0	Hypothetical protein (3)	possible carboxylating (R)-S-oxide reductase activity [GO:003744] (3); oxidation-reduction process [GO:0005514 biological process] (2)	Mes-like [IPR011057] (3); Peptide methionine sulphoxide reductase MesB [IPR002579] (2)	scaffold_7_mRNA_91.1	C.unshiu_00488_mRNA_3.1,C.unshiu_01559_mRNA_9.1		
GF0016751	1	2	0	Prenylated rab acceptor family protein (3)		Prenylated rab acceptor PRA1 [IPR004895] (3)	scaffold_7_mRNA_884.1	C.unshiu_00437_mRNA_2.1,C.unshiu_00726_mRNA_12.1		
GF0016658	1	2	0	Hydroxyproline-rich glycoprotein family protein, putative (3)			scaffold_7_mRNA_720.1	C.unshiu_00288_mRNA_25.1,C.unshiu_02331_mRNA_3.1		
GF0016616	1	2	0	Protein RMD5 like A (3)	protein binding [GO:0005515 molecular function] (3); zinc ion binding [GO:0008270 molecular function] (3)	RING-type zinc-finger, Lish1 dimerization motif [IPR027370] (3); CTH1_CRA_C-terminal to Leu1 motif domain [IPR024964] (3); Zinc finger, RING-type motif [IPR024965] (3); Zinc finger, RNF_FVLF_PFLP type [IPR023083] (3); CRA domain [IPR006134] (3); LRS homology motif [IPR006594] (3); Rnd5 [IPR027711] (2)	scaffold_7_mRNA_660.1	C.unshiu_00764_mRNA_7.1,C.unshiu_02109_mRNA_2.1		
GF0016568	1	2	0	Glycosyl hydrolase family 43 protein (3)	hydrolase activity, hydrolysing glycosidic esters [GO:0004553 molecular function] (3); carbohydrate metabolic process [GO:0006975 biological process] (3)	Glycoside hydrolase, family 43 [IPR006710] (3); Glycosyl hydrolase, five-bladed beta-propeller domain [IPR023296] (3)	scaffold_7_mRNA_598.1	C.unshiu_00510_mRNA_27.1,C.unshiu_01220_mRNA_12.1		
GF0016546	1	2	0	AT4g04660 protein (2); Hypothetical protein (1)	zinc ion binding [GO:0008270 molecular function] (3); nucleic acid binding [GO:0003676 molecular function] (3)	Zinc finger, CCHC-type [IPR001878] (3); Zinc knuckle CX2C-X4H4C [IPR025836] (3); Domain of unknown function DU42483 [IPR025558] (3)	scaffold_7_mRNA_572.1	C.unshiu_00136_mRNA_36.1,C.unshiu_02688_mRNA_1.1		
GF0016507	1	2	0	Hypothetical protein (1); Potato DNA for molecular function (1); DNA integration copia-like transposable element (1)	Polyepitope with an integrase domain (1); nucleic acid binding [GO:0003676 molecular function] (3); DNA integration copia-like transposable element (1)	Integrase, catalytic core [IPR012337] (3); Integrase, catalytic core [IPR006170] (3); Reverse transcriptase, RNA-dependent DNA polymerase [IPR013103] (1)	scaffold_7_mRNA_513.1	C.unshiu_00202_mRNA_2.1,C.unshiu_02229_mRNA_1.1		
GF0016446	1	2	0	Reticulon-like protein B13 (3)		Reticulin [IPR003388] (3)	scaffold_7_mRNA_408.1	C.unshiu_01032_mRNA_10.1,C.unshiu_01066_mRNA_7.1		
GF0016443	1	2	0	Methyl esterase 1 (3)		Alpha-Beta hydrolase fold [IPR029058] (3); Alpha-Beta hydrolase fold-1 [IPR000073] (3)	scaffold_7_mRNA_399.1	C.unshiu_00025_mRNA_93.2,C.unshiu_01066_mRNA_2.2		
GF0016347	1	2	0	T-complex protein 1 subunit gamma (2); 0 TcP-1/cpn60 chaperonin family protein (1)	ATP binding [GO:0005524 molecular function] (3); unfolded protein binding [IPR012690] (1)	Regulation of transcription, DNA-templated [GO:0006355 molecular function] (3); biological process [IPR0043565 sequence-specific DNA binding [GO:0043565 molecular function] (3); transcription factor activity, sequence-specific DNA binding [GO:0000700 molecular function] (3)	scaffold_7_mRNA_2726.1	C.unshiu_00001_mRNA_404.1,C.unshiu_02885_mRNA_1.1		
GF0016280	1	2	0	BZIP transcription factor (2); BZIP transcription factor bZIP124 (1)	ATP binding [GO:0004531 molecular function] (3); biological process [IPR0043565 sequence-specific DNA binding [GO:0043565 molecular function] (3); transcription factor activity, sequence-specific DNA binding [GO:0000700 molecular function] (3)	Basic-leucine zipper domain [IPR004827] (3)	scaffold_7_mRNA_256.1	C.unshiu_00209_mRNA_31.1,C.unshiu_02267_mRNA_2.1		
GF0016261	1	2	0	Hypothetical protein (2); Disease resistance protein family, putative (1)	ADP binding [GO:0004531 molecular function] (1); Putative molecular function [IPR0043565 molecular function] (3)	Leucine-rich repeat domain, L domain-like [IPR032751] (3); Winged helix-turn-helix DNA-binding domain [IPR01991] (1); P-loop containing nucleoside triphosphate hydrolase [IPR002417] (1); NB-ARC [IPR02182] (1)	scaffold_7_mRNA_2488.1	C.unshiu_02139_mRNA_1.1,C.unshiu_02824_mRNA_1.1		
GF0016164	1	2	0	Hypothetical protein (3)	protein phosphorylation [GO:0006468 biological process] (2); protein kinase activity [GO:0004536 molecular function] (2); ATP binding [GO:0005524 molecular function] (1)	Protein kinase [IPR000719] (1); Serine-threonine/tyrosine-protein kinase catalytic domain [IPR001245] (1)	scaffold_7_mRNA_2225.1	C.unshiu_00414_mRNA_5.1,C.unshiu_00611_mRNA_2.1		
GF0016162	1	2	0	Hypothetical protein (3)	metabolic process [GO:0008152 biological process] (1); transferase activity, transferring hexosyl groups [GO:0016758 molecular function] (3)	UDP-glucuronyl UDP-glucuronyltransferase [IPR002213] (1)	scaffold_7_mRNA_2213.1	C.unshiu_00040_mRNA_78.1,C.unshiu_00611_mRNA_16.1		
GF0016089	1	2	0	Polynucleotidyl transferase, ribonuclease H-like superfamily protein (1); Putative non-LTR retroelement reverse transcriptase (1); Hypothetical protein (1)	nucleic acid binding [GO:0003676 molecular function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_7_mRNA_2021.1	C.unshiu_00508_mRNA_3.1,C.unshiu_02073_mRNA_3.1		
GF0016061	1	2	0	Hypothetical protein (3)		Ribonuclease H-like domain [IPR012337] (3)	scaffold_7_mRNA_1961.1	C.unshiu_00448_mRNA_22.1,C.unshiu_01698_mRNA_6.1		
GF0016007	1	2	0	Hypothetical protein (3)	nucleic acid binding [GO:0003676 molecular function] (3)	Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (3); Leucine-rich repeat domain, L domain-like [IPR001611] (1); Leucine-rich repeat, typical subtype [IPR003591] (1)	scaffold_7_mRNA_1806.1	C.unshiu_00181_mRNA_23.1,C.unshiu_01698_mRNA_6.1		
GF0015997	1	2	0	Hypothetical protein (2); Phytofuranose receptor (1)	protein binding [GO:0005515 molecular function] (1)	F-box associated interaction domain [IPR017451] (3); F-box domain [IPR001810] (3); Kelch-beta propeller domain [IPR001591] (3)	scaffold_7_mRNA_1756.1	C.unshiu_01401_mRNA_9.1,C.unshiu_02586_mRNA_1.1		
GF0015957	1	2	0	S locus F-box protein with the low allelic sequence polymorphism I-S2 (3)	protein binding [GO:0005515 molecular function] (3)	scaffold_7_mRNA_157.1	C.unshiu_00073_mRNA_10.1,C.unshiu_02420_mRNA_2.1			
GF0015954	1	2	0	S locus F-box protein with the low allelic sequence polymorphism I-S2 (2); Class S-F-box protein (1)	protein binding [GO:0005515 molecular function] (3)	scaffold_7_mRNA_156.1	C.unshiu_00073_mRNA_9.1,C.unshiu_02420_mRNA_1.1			
GF0015953	1	2	0	Caffeoyl CoA O-methyltransferase (3)	O-methyltransferase activity [GO:0008171 molecular function] (3)	scaffold_7_mRNA_155.1	C.unshiu_01330_mRNA_7.1,C.unshiu_01330_mRNA_8.2			

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0015939	1	2	0	Disease resistance protein RPS2 (3)	ADP binding [GO:0043531] molecular_function [3]; protein binding [GO:0005515 molecular_function] (3)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3); Leucine-rich repeat [IPR016111] (3); NB-ARC [IPR002182] (3); Leucine-rich repeat, typical subtype [IPR003591] (3); Leucine-rich repeat domain, L domain-like [IPR032675] (3); Winged helix-turn-helix DNA-binding domain [IPR01991] (3)	scaffold_7_mRNA_1529.1	C_unshiu_00185_mRNA_4.1,C_unshiu_01149_mRNA_2.1	
GF0015922	1	2	0	Hypothetical protein (2); Ribulose bisphosphate carboxylase large chain (1)	carbon fixation [GO:0015977 biological_process] (3); ribulose-bisphosphate carboxylase activity [GO:0016984 molecular_function] (3)	Ribulose bisphosphate carboxylase, large subunit, ferredoxin-like N-terminal [IPR017445] (3)	scaffold_7_mRNA_1492.1	C_unshiu_00271_mRNA_3.1,C_unshiu_00271_mRNA_4.1	
GF0015866	1	2	0	Hypothetical protein (3)	To encode a PR protein. Belongs to the plant thionin family with the following members: putative (3)		scaffold_7_mRNA_1356.1	C_unshiu_00995_mRNA_30.1,C_unshiu_01521_mRNA_5.1	
GF0015864	1	2	0				scaffold_7_mRNA_1351.1	C_unshiu_00208_mRNA_2.1,C_unshiu_02723_mRNA_1.1	
GF0015859	1	2	0	Coatomer beta subunit, putative (3)	protein binding [GO:0005515 molecular_function] (2)	G-protein beta WD-40 repeat [IPR020472] (2); WD-40 repeat, leucine-rich repeat [IPR016111] (2); WD-40/VTN repeat-like-coding-containing domain [IPR015943] (2); WD-40-repeat-containing domain [IPR017096] (2); WD40 repeat [IPR016180] (2)	scaffold_7_mRNA_1340.1	C_unshiu_00208_mRNA_11.1,C_unshiu_03029_mRNA_1.1	
GF0015698	1	2	0	DNA-binding storekeeper protein-related transcriptional regulator (2); DNA-binding storekeeper protein-related transcriptional regulator, putative (1)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (1)	Protein of unknown function DUF573 [IPR015992] (2); GLABROS1 [IPR015992] (2); Glabrosin-like protein domain [IPR007921] (1)	scaffold_6_mRNA_999.1	C_unshiu_00232_mRNA_1.1,C_unshiu_01104_mRNA_8.1	
GF0015694	1	2	0	S-necrocalin synthase 2 (3)	defense response [GO:0006952 biological_process] (3); response to biotic stimulus [GO:0009607 biological_process] (3)	Beta 1,3-D-glucanase protein [IPR023393] (3); START-like domain [IPR024948] (3); Major latex protein domain [IPR024948] (2)	scaffold_6_mRNA_975.1	C_unshiu_00232_mRNA_21.1,C_unshiu_02251_mRNA_4.1	
GF0015689	1	2	0	Protein TIC 20-v, chloroplastic (3)		Chloroplast protein import component Tic20 [IPR005691] (3)	scaffold_6_mRNA_944.1	C_unshiu_00407_mRNA_24.1,C_unshiu_01219_mRNA_3.1	
GF0015660	1	2	0	Hypothetical protein (3)			scaffold_6_mRNA_830.1	C_unshiu_00415_mRNA_18.1,C_unshiu_02226_mRNA_3.1	
GF0015648	1	2	0	Hypothetical protein (3)			scaffold_6_mRNA_77.1	C_unshiu_00992_mRNA_18.1,C_unshiu_01857_mRNA_6.1	
GF0015643	1	2	0	Hypothetical protein (3)			scaffold_6_mRNA_745.1	C_unshiu_01235_mRNA_4.1,C.unshiu_01632_mRNA_2.1	
GF0015622	1	2	0	Hypothetical protein (3)		MULE transposase domain [IPR018289] (3)	scaffold_6_mRNA_640.1	C_unshiu_00180_mRNA_27.1,C.unshiu_01907_mRNA_3.1	
GF0015608	1	2	0	Hypothetical protein (3)			scaffold_6_mRNA_477.1	C.unshiu_00871_mRNA_9.1,C.unshiu_01659_mRNA_7.1	
GF0015604	1	2	0	Hypothetical protein (3)		Reverse transcriptase domain [IPR000477] (3); Parancastol antigen Ma [IPR026523] (1)	scaffold_6_mRNA_427.1	C.unshiu_00971_mRNA_23.1,C.unshiu_01933_mRNA_11.1	
GF0015601	1	2	0	Hypothetical protein (3)			scaffold_6_mRNA_402.1	C.unshiu_00409_mRNA_3.1	
GF0015360	1	2	0	Hypothetical protein (3)			scaffold_6_mRNA_287.1	C.unshiu_00262_mRNA_13.1,C.unshiu_00484_mRNA_2.1	
GF0015248	1	2	0	Hypothetical protein (3)			scaffold_6_mRNA_271.1	C.unshiu_00176_mRNA_10.1,C.unshiu_00780_mRNA_7.1	
GF0015050	1	2	0	UPF0481 protein (3)		Protein of unknown function DUF247, plant [IPR004158] (3)	scaffold_6_mRNA_2432.1	C.unshiu_01263_mRNA_10.1,C.unshiu_01499_mRNA_1.1	
GF0014816	1	2	0	Translocase of chloroplast (3)	P-P-bond-hydrolysis-driven protein transmembrane transporter activity [GO:0015450 molecular_function] (3); intracellular protein transport [GO:0006886 biological_process] (3); GTP binding [GO:0005525 molecular_function] (3); chloroplast outer membrane [GO:0009707 cellular_component] (3)	AI1-type gamma nucleoside-binding protein [IPR004130] (2); Zinc finger, SWIM-type [IPR015227] (1); M6PR-binding domain [IPR015289] (1); Zinc finger, PMZ-type [IPR006564] (1); [IPR007568] (3); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3)	scaffold_6_mRNA_2095.1	C.unshiu_00644_mRNA_7.1,C.unshiu_01587_mRNA_9.1	
GF0014643	1	2	0	FAR1-RELATED SEQUENCE 6 (1); Hypothetical protein (1); FAR1 DNA-binding domain protein (1)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); zinc ion binding [IPR002270 molecular_function] (1)	FAR1 DNA binding domain [IPR004130] (2); Zinc finger, SWIM-type [IPR015227] (1); M6PR-binding domain [IPR015289] (1); Zinc finger, PMZ-type [IPR006564] (1); Zinc finger, CCHC-type [IPR001878] (2)	scaffold_6_mRNA_1813.1	C.unshiu_00332_mRNA_7.1,C.unshiu_01382_mRNA_6.1	
GF0014633	1	2	0	Nucleic acid binding / zinc ion binding protein (2); AT4g4660 protein (1)	zinc ion binding [GO:0008270 molecular_function] (2); nucleic acid binding [GO:0005676 molecular_function] (2)	Zinc knuckle CX2CX4HX4CX4 [IPR025536] (3); Domain of unknown function DUF4283 [IPR025558] (3); Zinc finger, CCHC-type [IPR001878] (2)	scaffold_6_mRNA_1794.1	C.unshiu_00390_mRNA_18.1,C.unshiu_01311_mRNA_4.1	
GF0014467	1	2	0	Hypothetical protein (3)		Domain of unknown function DUF1985 [IPR019911] (3); S-adenylyl-methionine-dependent methyltransferase [IPR029063] (3); Plant methyltransferase dimerization [IPR029063] (3); O-hydroxyltransferase COMT-type [IPR016461] (3); O-methyltransferase, family 2 [IPR01001077] (3); Wings-over-helix domain [IPR019911] (3)	scaffold_6_mRNA_1390.1	C.unshiu_00198_mRNA_31.1,C.unshiu_00219_mRNA_27.1	
GF0014454	1	2	0	Caffeic acid 3-O-methyltransferase (2); Caffeic acid O-methyltransferase (1)	methyltransferase activity [GO:0008168 molecular_function] (3); protein dimerization activity [GO:0046983 molecular_function] (3); O-methyltransferase activity [GO:0008171 molecular_function] (3)	Sadenosyl-L-methionine-dependent methyltransferase [IPR029063] (3); Plant methyltransferase dimerization [IPR029063] (3); O-hydroxyltransferase COMT-type [IPR016461] (3); O-methyltransferase, family 2 [IPR01001077] (3); Wings-over-helix domain [IPR019911] (3)	scaffold_6_mRNA_1352.1	C.unshiu_01123_mRNA_7.1,C.unshiu_01732_mRNA_5.1	
GF0014446	1	2	0	LRP receptor-like serine/threonine-protein kinase FER (2); Hypothetical protein (1)	protein binding [GO:0005515 molecular_function] (1)	Leucine-rich repeat, domain containing N-terminal, plant-type [IPR013210] (3); Leucine-rich repeat domain, L domain-like [IPR032675] (3); Leucine-rich repeat [IPR001611] (1)	scaffold_6_mRNA_134.1	C.unshiu_00272_mRNA_6.1,C.unshiu_00378_mRNA_10.1	
GF0014388	1	2	0	Hypothetical protein (3)			scaffold_6_mRNA_1120.1	C.unshiu_01629_mRNA_17.1,C.unshiu_02021_mRNA_6.1	
GF0014358	1	2	0	H(-)-transporting ATPase plant/fungi plasma membrane type, putative (1); Plasma membrane ATPase (1); Hypothetical protein (1)	integral component of membrane [GO:0016021 cellular_component] (3); metal ion binding [GO:0046872 molecular_function] (3); nucleotide binding [GO:0009166 molecular_function] (3)	HAD-like domain [IPR023124] (3); P-type ATPase, A domain [IPR008250] (3); P-type ATPase, cytoplasmic domain [IPR023299] (3); P-type ATPase, transmembrane domain [IPR002329] (3); P-type ATPase, membrane domain [IPR001757] (3); P-type ATPase, phosphotransferase [IPR018301] (3)	scaffold_6_mRNA_1022.1	C.unshiu_00626_mRNA_2.1,C.unshiu_02317_mRNA_2.1	
GF0014357	1	2	0	Transmembrane and coiled-coil domains protein 1 (2); Hypothetical protein (1)	membrane [GO:0016020 cellular_component] (1)	Uncharacterized conserved protein UCP023232, transmembrane eukaryotic [IPR008559] (1)	scaffold_6_mRNA_1014.1	C.unshiu_00402_mRNA_6.1,C.unshiu_00626_mRNA_4.1	
GF0014354	1	2	0	Ribonuclease II protein, putative (1); RNA-directed DNA polymerase (1); RNA-directed DNA polymerase (Reverse transcriptase) (1)		Reverse transcriptase zinc-binding domain [IPR026960] (3); RNase/ribonuclease domain [IPR016461] (2)	scaffold_6_mRNA_101.1	C.unshiu_00187_mRNA_38.1,C.unshiu_00329_mRNA_3.1	
GF0014344	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_961.1	C.unshiu_00408_mRNA_19.1,C.unshiu_00540_mRNA_16.1	
GF0014318	1	2	0	Putative non-LTR reverse transcriptase (1); Polycleaved H-like protein (1); Polycleaved H-like protein, fold 1, RNA-directed RNA polymerase (1); RNA polymerase (Reverse transcriptase) (1)	multiple acid binding [GO:0003676 molecular_function] (3); RNA-DNA hybrid abasic-site activity [GO:0004523 molecular_function] (1); H-fold-like protein (1)	Reverse transcriptase zinc-binding domain [IPR026960] (3); RNase/ribonuclease domain [IPR016461] (2); Ribonuclease H domain [IPR002156] (1); Plant disease resistance response protein [IPR004265] (1)	scaffold_5_mRNA_804.1	C.unshiu_00213_mRNA_4.1,C.unshiu_00593_mRNA_3.1	
GF0014317	1	2	0	Zinc knuckle family protein (3)	zinc ion binding [GO:0008270 molecular_function] (3); nucleic acid binding [GO:0005676 molecular_function] (3)	Zinc finger, CCHC-type [IPR001878] (3); Domain of unknown function DU4219 [IPR025514] (2)	scaffold_5_mRNA_797.1	C.unshiu_00471_mRNA_28.1,C.unshiu_00583_mRNA_9.1	
GF0014273	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_608.1	C.unshiu_00354_mRNA_12.1,C.unshiu_00354_mRNA_8.1	
GF0014272	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_607.1	C.unshiu_00354_mRNA_11.1,C.unshiu_00354_mRNA_9.1	
GF0014256	1	2	0	Hypothetical protein (3)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (3)	HY3/FAR1 family [IPR031052] (3); MULE transposase domain [IPR018289] (2)	scaffold_5_mRNA_569.1	C.unshiu_00085_mRNA_50.1,C.unshiu_01109_mRNA_2.1	
GF0014124	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_5013.1	C.unshiu_00009_mRNA_162.1,C.unshiu_u_01092_mRNA_3.1	
GF0013990	1	2	0	Putative carboxylesterase 2 (3)	hydrolase activity [GO:0016787 molecular_function] (3); metabolic process [GO:0008152 molecular_function] (3); biological_process [GO:0009167 molecular_function] (1)	Alpha/Beta hydrolase fold-1 [IPR013094] (3); Alpha/Beta hydrolase fold [IPR029681] (3); DnaJ domain [IPR001623] (3)	scaffold_5_mRNA_4792.1	C.unshiu_00054_mRNA_2.1,C.unshiu_00951_mRNA_14.1	
GF0013931	1	2	0	Dienstlactone hydrolase-like protein (3)	hydrolase activity [GO:0016787 molecular_function] (3)	Dienstlactone hydrolase [IPR002925] scaffold_5_mRNA_4694.1	C.unshiu_01033_mRNA_16.1,C.unshiu_01089_mRNA_19.1		
GF0013892	1	2	0	Chaperone DnaJ-domain superfamily protein (3)	nucleotide-sugar transport [GO:0015780 biological_process] (3); nucleotide-sugar transmembrane transporter activity [GO:00085338 molecular_function] (3)	DnaJ domain [IPR001623] (3)	scaffold_5_mRNA_4631.1	C.unshiu_00495_mRNA_28.1,C.unshiu_00802_mRNA_15.1	
GF0013866	1	2	0	UDP-galactose transporter 2 (3)		Bi-functional UDP-flavonose-UDP-galactose transporter [IPR013089] (3); Sugar phosphate transporter domain [IPR004653] (3)	scaffold_5_mRNA_4593.1	C.unshiu_00278_mRNA_38.1,C.unshiu_01416_mRNA_2.1	
GF0013773	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_4430.1	C.unshiu_00319_mRNA_2.1	
GF0013715	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_4379.1	C.unshiu_00477_mRNA_23.1,C.unshiu_00552_mRNA_19.1	
GF0013696	1	2	0	Hypothetical protein (3)	protein binding [GO:0005515 molecular_function] (1)	Peptidoglycopeptide repeat [IPR002885] (3); Tetrapeptidoglycopeptide-like helical domain [IPR011990] (1)	scaffold_5_mRNA_435.1	C.unshiu_00378_mRNA_3.1,C.unshiu_00378_mRNA_33.1	
GF0013591	1	2	0	Putative retroelement pol polyprotein (3)	macrocyclic acid binding [GO:0003676 molecular_function] (1); zinc ion binding [GO:0008270 molecular_function] (1)	Zinc finger, CCHC-type [IPR001878] (1)	scaffold_5_mRNA_417.1	C.unshiu_00141_mRNA_5.1,C.unshiu_00617_mRNA_5.1	
GF0013504	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_4041.1	C.unshiu_00022_mRNA_23.1,C.unshiu_00582_mRNA_7.1	

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>	
GF0013450	1	2	0	Stearoyl-acyl carrier protein desaturase (3)	fatty acid metabolism process [GO:0006631 biological process] (3); oxidation-reduction process [GO:005114 biological process] (3); acyl-[acyl-carrier-protein] desaturase activity [GO:0000001 molecular function] (3); oxidoreductase activity [GO:0016491 molecular function] (2)	Fatty acid desaturase, type 2 [PR005067] (3); Ferritin-like superfamily [IPR009078] (3); Ribonucleotide reductase-related [IPR012348] (2)	scaffold_5_mRNA_3940.1	C_unshiu_00447_mRNA_24.1.C_unshiu_02182_mRNA_3.1		
GF0013449	1	2	0	Eukaryotic translation initiation factor 5B putative (1)	GTP binding [GO:0005525 0 (2); Translation initiation factor IF-2, putative (1)]	GTP binding [GO:0003924 molecular function] (2)	Fatty acid desaturase, type 2 [PR005067] (3); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3); Translation initiation factor IF-2, putative [IPR001515] (3); Small GTP-binding protein domain [IPR053225] (2); Transcription factor, GTP-binding domain [IPR00795] (2)	scaffold_5_mRNA_3937.1	C_unshiu_00447_mRNA_21.1.C_unshiu_02182_mRNA_7.1	
GF0013329	1	2	0	Putative retroelement polypolytein (2); Hypothetical protein (1)			Translation protein, beta-barrel domain [PR009900] (3); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3); Leucine-rich repeat domain, L domain-like [IPR012348] (3); NB-ARC [IPR002182] (1); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1)	scaffold_5_mRNA_371.1	C_unshiu_00328_mRNA_5.1.C_unshiu_01324_mRNA_3.1	
GF0013307	1	2	0	Hypothetical protein (2); Phosphoprotein phosphatase (1)	ADP binding [GO:0043531 molecular function] (1)	[IPR002182] (1); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1)	scaffold_5_mRNA_3647.1	C_unshiu_00453_mRNA_21.1.C_unshiu_00453_mRNA_2.8.1		
GF0013286	1	2	0	Hypothetical protein (3)				scaffold_5_mRNA_3575.1	C_unshiu_00244_mRNA_16.1.C_unshiu_00782_mRNA_9.1	
GF0013264	1	2	0	Hypothetical protein (3)				scaffold_5_mRNA_3447.1	C_unshiu_01332_mRNA_4.1.C_unshiu_02720_mRNA_3.1	
GF0013257	1	2	0	Hypothetical protein (3)				scaffold_5_mRNA_3433.1	C_unshiu_00242_mRNA_21.1.C_unshiu_00344_mRNA_3.6.1	
GF0013232	1	2	0	Ras-related protein Rab11C (1); Hypothetical protein (1); RAB GTPase-like protein B1C (1)	GTP binding [GO:0005525 molecular function] (3); protein transport [GO:0015031 biological process] (2); signal transduction [GO:0007165 biological process] (2); small GTPase-mediated signal transduction [IPR0007264 biological process] (2); membrane [GO:00016020 cellular component] (3); GTPase activity [GO:000924 molecular function] (1); intracellular [GO:0008622 cellular compartment] (1)	Small GT-Pase superfamily [IPR001806] (3); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3); Small GT-Pase superfamily, Ras type [IPR020849] (2); Small GT-Pase superfamily, Rab type [IPR001806] (3); Small GT-Pase superfamily [IPR005379] (2); Small GT-Pase superfamily, Rho type [IPR005225] (1); Small GT-Pase superfamily, Rho type [IPR003578] (1)	scaffold_5_mRNA_331.1	C_unshiu_01174_mRNA_6.1.C_unshiu_01207_mRNA_2.1		
GF0013218	1	2	0	GTP-binding protein YPTM2 (1); RAB GTPase-like protein B1C (1); Ras-like GTP-binding protein YPT1 (1)	GTP binding [GO:0005525 mediated signal transduction [IPR0007264 biological process] (2); membrane [GO:00016020 cellular component] (3); signal transduction [GO:0015031 biological process] (2); intracellular [GO:0008622 cellular component] (1); GTPase activity [GO:000924 molecular function] (1) amino acid transmembrane transporter activity [GO:0015171]	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3); Small GT-Pase superfamily [IPR001806] (3); Small GT-Pase superfamily, Ras type [IPR020849] (2); Small GT-Pase superfamily, Rho type [IPR001806] (3); Small GT-Pase superfamily [IPR005379] (2); Small GT-Pase superfamily, Rho type [IPR003578] (1)	scaffold_5_mRNA_328.1	C_unshiu_00746_mRNA_7.1.C_unshiu_01215_mRNA_14.1		
GF0013185	1	2	0	Amino acid permease family protein (1); Hypothetical protein (1); Neutral amino acid transporter (1)	Amino acid permease family protein (1); Amino acid transporter (1)	Amino acid/polypeptide transporter I [PR002291] (3); Adaptor homology (AH) domain/BAR domain [IPR027267] (1); SH3 domain [IPR001452] (1)	scaffold_5_mRNA_3172.1	C_unshiu_00809_mRNA_10.1.C_unshiu_00961_mRNA_7.1		
GF0013182	1	2	0	LRR receptor-like serine/threonine-protein kinase GS01 (3)	protein binding [GO:0005515 molecular function] (3)	Leucine-rich repeat, typical subtype [IPR003391] (3); Leucine-rich repeat domain, L domain-like [IPR032651] (3); Leucine-rich repeat [IPR01611] (3); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); SH3 domain [IPR001452] (1)	scaffold_5_mRNA_3122.1	C_unshiu_00888_mRNA_6.1.C_unshiu_02001_mRNA_5.1		
GF0013139	1	2	0	Hypothetical protein (3)	protein binding [GO:0005515 molecular function] (3)	Leucine-rich repeat [IPR002108] (3); Ankyrin repeat [IPR002110] (3); Retropseudon gag domain [IPR005162] (1)	scaffold_5_mRNA_2983.1	C_unshiu_00016_mRNA_3.1.C_unshiu_00582_mRNA_1.1		
GF0013039	1	2	0	Hypothetical protein (3)		Transposon, En/Spm-like [IPR004242] (1); Probable transposase, Pits/En/Spm, plasmid [IPR004252] (1); Domain of unknown function DUF4216 [IPR0225312] (1)	scaffold_5_mRNA_2441.1	C_unshiu_01665_mRNA_1.1.C_unshiu_01989_mRNA_1.1		
GF0012991	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_2247.1	C_unshiu_00258_mRNA_1.1.C_unshiu_01853_mRNA_4.1		
GF0012988	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_2224.1	C_unshiu_00111_mRNA_4.5.1.C_unshiu_00464_mRNA_15.1		
GF0012968	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_2149.1	C_unshiu_00100_mRNA_30.1.C_unshiu_00419_mRNA_18.1		
GF0012956	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_2055.1	C_unshiu_00095_mRNA_22.1.C_unshiu_00871_mRNA_33.1		
GF0012926	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1937.1	C_unshiu_00568_mRNA_19.1.C_unshiu_01974_mRNA_2.1		
GF0012921	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1929.1	C_unshiu_01841_mRNA_2.1.C_unshiu_02592_mRNA_2.1		
GF0012913	1	2	0	Hypothetical protein (3)	regulation of transcription, DNA-templated [GO:0006555 biological process] (3); DNA binding [GO:0003577 molecular function] (3)	NAC domain [IPR003441] (3)	scaffold_5_mRNA_1880.1	C_unshiu_00573_mRNA_10.1.C_unshiu_00647_mRNA_10.1		
GF0012864	1	2	0	Hypothetical protein (3); Late embryogenesis abundant hydroxyproline-rich glycoprotein, putative (1)	Late embryogenesis abundant protein, LEA-14 [IPR004864] (3); Immunoglobulin-like fold [IPR013783] (3)	Late embryogenesis abundant protein, LEA-14 [IPR004864] (3); Immunoglobulin-like fold [IPR013783] (3)	scaffold_5_mRNA_1708.1	C_unshiu_00202_mRNA_9.1.C_unshiu_01766_mRNA_2.1		
GF0012844	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1583.1	C_unshiu_00174_mRNA_46.1.C_unshiu_02392_mRNA_2.1		
GF0012842	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1538.1	C_unshiu_00128_mRNA_16.1.C_unshiu_01666_mRNA_5.1		
GF0012830	1	2	0	Peroxidase 2 (3)	peroxidase activity [GO:0004601 molecular function] (3); oxidation-reduction process [GO:0055114 biological process] (3); heme binding [GO:0020307 molecular function] (3); response to oxidative stress [GO:0006797 biological process] (3); hydrogen peroxide catalytic process [GO:0042744 biological process] (1)	Haem peroxidase [IPR012055] (3); Peroxidase, active site [IPR019794] (3); Peroxidase, heme binding site [IPR019793] (3); Plant peroxidase [IPR000223] (3); Haem peroxidase, plant/fungal/bacterial [IPR020116] (3); Secretory peroxidase [IPR033905] (1)	scaffold_5_mRNA_1449.2	C_unshiu_00530_mRNA_21.C_unshiu_00678_mRNA_16.1		
GF0012806	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1364.1	C_unshiu_01675_mRNA_5.1.C_unshiu_01092_mRNA_2.1		
GF0012781	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1262.1	C_unshiu_00340_mRNA_14.1.C_unshiu_00444_mRNA_30.1		
GF0012776	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1227.1	C_unshiu_01048_mRNA_3.1.C_unshiu_01401_mRNA_4.1		
GF0012775	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1224.1	C_unshiu_00160_mRNA_13.1.C_unshiu_00160_mRNA_14.1		
GF0012768	1	2	0	Hypothetical protein (3); Disease resistance protein (1); NB-ARC domain-containing protein (1); NB-ARC domain-containing protein (1); NB-ARC domains-containing disease resistance protein (1)	ADP binding [GO:0043531 molecular function] (3)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3); NB-ARC [IPR002182] (3); Leucine-rich repeat domain, L domain-like [IPR032651] (2)	scaffold_5_mRNA_113.1	C_unshiu_00019_mRNA_5.1.C_unshiu_00904_mRNA_4.1		
GF0012759	1	2	0	Hypothetical protein (3)	terpenoid biosynthesis activity [GO:0010333 molecular function] (3); lyase activity [GO:0006829 molecular function] (3); metabolic process [GO:0009152 biological process] (3); nucleic acid binding [GO:0003676 molecular function] (1)	Terpenoid synthase, N-terminal domain [IPR001906] (3); Terpenoid cyclase/protein prenyltransferase alpha/beta toroid [IPR000930] (3); Ribonuclease H-like domain [IPR02337] (1)	scaffold_5_mRNA_1099.1	C_unshiu_00825_mRNA_5.1.C_unshiu_01139_mRNA_2.1		
GF0012754	1	2	0	Hypothetical protein (3)	DNA fragmentation [GO:0015074 biological process] (3); nucleic acid binding [GO:0003676 molecular function] (3)	Integrase, catalytic core [IPR001584] (1); Ribonuclease H-like domain [IPR02337] (1)	scaffold_5_mRNA_1076.1	C_unshiu_00240_mRNA_16.1.C_unshiu_00685_mRNA_2.1		
GF0012747	1	2	0	Hypothetical protein (2); Putative Ty-3-gypsy-like retroelement polypolyprotein (1)	DNA fragmentation [GO:0015074 biological process] (3); nucleic acid binding [GO:0003676 molecular function] (3)	Integrase, catalytic core [IPR001584] (1); Ribonuclease H-like domain [IPR02337] (1)	scaffold_5_mRNA_1053.1	C_unshiu_01148_mRNA_3.1.C_unshiu_01624_mRNA_1.1		
GF0012740	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1033.1	C_unshiu_00091_mRNA_10.1.C_unshiu_01351_mRNA_4.1		
GF0012727	1	2	0	Hypothetical protein (3)			scaffold_4_mRNA_963.1	C_unshiu_01716_mRNA_3.1.C_unshiu_02475_mRNA_1.1		
GF0012662	1	2	0	Transducin wd40 repeat-like superfamily protein (3)	zinc ion binding [GO:0008270 molecular function] (3); nucleic acid binding [GO:0003676 molecular function] (3)	Zinc finger, CCHC-type [IPR001878] (3)	scaffold_4_mRNA_847.1	C_unshiu_00169_mRNA_9.1.C_unshiu_00202_mRNA_5.1		
GF0012602	1	2	0	Hypothetical protein (3)		TB2/DPI/HV-A2-related protein [IPR004345] (3); Leucine-rich repeat domain, L domain-like [IPR032675] (1)	scaffold_4_mRNA_664.1	C_unshiu_01019_mRNA_10.1.C_unshiu_02720_mRNA_2.1		
GF0012574	1	2	0	Hypothetical protein (3)			scaffold_4_mRNA_571.1	C_unshiu_00141_mRNA_54.1.C_unshiu_01045_mRNA_12.1		

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0011351	1	2	0	Hypothetical protein (3)	nucleic acid binding [GO:0003676 molecular function] (3); zinc ion binding [GO:0008270 molecular function] (2); regulation of transcription, DNA-templated [GO:0006355 biological process] (1)	Zinc finger, CCHC-type [IPR001878] (1); FAB1 DNA binding domain [IPR004330] (1); FH3/FAR1 family template [IPR031052] (1); Zinc finger, SWIM-type [IPR007527] (1); Zinc finger, PMZ-type [IPR007528] (1)	scaffold_4_mRNA_1751.1	C_unshiu_00059_mRNA_57.1,C_unshiu_00416_mRNA_31.1	-
GF0011143	1	2	0	Hypothetical protein (3)	zinc ion binding [GO:0008270 molecular function] (1); nucleic acid binding [GO:0003676 molecular function] (1)	Domain of unknown function DUF283 [IPR025585] (3); Zinc finger, CCHC-type [IPR001878] (1); Zinc knuckle CX2CX4H4C [IPR025836] (1)	scaffold_4_mRNA_1197.1	C_unshiu_00140_mRNA_26.1,C_unshiu_00250_mRNA_18.1	-
GF0011129	1	2	0	Retrotransposon gag protein (3)	-	Retrotransposon gag domain [IPR00562] (3)	scaffold_4_mRNA_1161.1	C_unshiu_00532_mRNA_3.1,C_unshiu_01230_mRNA_4.1	-
GF0011026	1	2	0	Putative Lysine/leucine-domain containing receptor kinase S7 (1); Lysine/leucine-domain containing receptor kinase IX-1 (1); Claude XV lectin receptor kinase (1)	carbohydrate binding [GO:0030246 molecular function] (3); protein kinase activity [GO:0004672 molecular function] (3); protein phosphotransferase activity [GO:0008648 biological process] (3); ATP binding [GO:0005524 molecular function] (3); nucleus [GO:0005634 cellular component] (1); DNA binding [GO:0003677 molecular function] (1)	Concanavalin-like domain [IPR012101] (3); Protein kinase-like domain [IPR011009] (3); Legume lectin domain [IPR001220] (3); Protein kinase domain [IPR001219] (3); Serine-threonine/lysine-protein kinase catalytic domain [IPR001245] (1); Serine-threonine/lysine-protein kinase, small [IPR0005541] (1); KNOX1 [IPR0005541] (1); KNOX2 [IPR0005541] (1); KNOX3 [IPR005540] (1)	scaffold_3_mRNA_902.1	C_unshiu_00412_mRNA_5.1,C_unshiu_02762_mRNA_1.1	-
GF0010423	1	2	0	Hypothetical protein (3)	nucleic acid binding [GO:0003676 molecular function] (3); zinc ion binding [GO:0008270 molecular function] (3)	Zinc finger, CCHC-type [IPR025586] (3); Zinc finger, CCHC-type [IPR001878] (3); Domain of unknown function DUF283 [IPR025585] (2); Zinc finger, H-like domain [IPR012371] (1)	scaffold_3_mRNA_5723.1	C_unshiu_00101_mRNA_39.1,C_unshiu_00254_mRNA_8.1	-
GF0010235	1	2	0	Gibberellin receptor GID1C (3)	hydrolyase activity [GO:00016787 molecular function] (3); metabolic process [GO:0008152 biological process] (3)	Lipase, GDXG, putative histidine active site [IPR002168] (3); Lipase, GDXG, putative serine active site [IPR03140] (3); Alpha/beta hydrolase fold-3 [IPR013094] (3)	scaffold_3_mRNA_5443.1	C_unshiu_00069_mRNA_13.1,C_unshiu_02089_mRNA_3.1	-
GF0010199	1	2	0	Hypothetical protein (3)	metabolic process [GO:0008152 biological process] (3); magnesium ion binding [GO:0003700 molecular function] (3); magnesium ion binding [GO:0006355 biological process] (3); terpene synthase activity [GO:00010333 molecular function] (3); lyase activity [GO:0016629 molecular function] (3)	Isopentenyl synthase domain [IPR008949] (3); Terpene synthase, N-terminal domain [IPR001906] (3); Terpene synthase, metal-binding domain [IPR005630] (3); Terpene synthase, protein [IPR008949] (3); pheophytinase-alpha-alpha toroid [IPR008930] (3)	scaffold_3_mRNA_5389.1	C_unshiu_00069_mRNA_63.1,C_unshiu_02801_mRNA_3.1	-
GF0010140	1	2	0	Sesquiterpene synthase (3)	plant-type cell wall organization [GO:0009664 biological process] (3); extracellular region [GO:0005576 cellular component] (3)	Expansin, cellulose-binding-like domain [IPR00717] (3); Expansin [IPR002963] (3); Expansin-Lol pl [IPR007118] (3); Expansin-polysaccharide-binding domain [IPR009009] (2); RlpA-like protein, double-psi-beta-barrel domain [IPR009009] (1)	scaffold_3_mRNA_530.1	C_unshiu_00120_mRNA_43.1,C_unshiu_01646_mRNA_2.1	-
GF0009883	1	2	0	Expansin (3)	-	-	scaffold_3_mRNA_4899.1	C_unshiu_00194_mRNA_49.1,C_unshiu_01905_mRNA_3.1	-
GF0009855	1	2	0	Hypothetical protein (3)	transcription factor activity, sequence-specific DNA binding [GO:0003700 molecular function] (3); regulation of transcription, negative-regulatory [GO:0006355 biological process] (3); multicellular organismal development [GO:0007275 biological process] (2); multicellular organism development [GO:0007275 biological process] (1)	AP2-like ethylene-responsive transcription factor [IPR031112] (3)	scaffold_3_mRNA_4827.1	C_unshiu_01263_mRNA_2.1,C_unshiu_02352_mRNA_2.1	-
GF0009841	1	2	0	Hypothetical protein (3)	magnesium ion binding [GO:0000287 molecular function] (3); cytoskeleton [GO:0005737 cellular component] (3); inorganic diphosphatase activity [GO:0004427 molecular function] (3); phosphate-containing compound metabolic process [GO:0006796 biological process] (3)	-	scaffold_3_mRNA_4803.1	C_unshiu_00076_mRNA_58.1,C_unshiu_00101_mRNA_46.1	-
GF0009825	1	2	0	Soluble inorganic pyrophosphatase (3)	Inorganic pyrophosphatase [IPR008162] (3)	scaffold_3_mRNA_4776.1	C_unshiu_00566_mRNA_1.1,C_unshiu_00875_mRNA_12.1	-	
GF0009781	1	2	0	Disease resistance protein (TIR-NBS-0 LRR class) (2); TMV resistance protein N; putative (1)	signal transduction [GO:0007165 biological process] (3); ADP binding [GO:0043531 molecular function] (3); protein binding [GO:0005515 molecular function] (3)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3); NB-ARC receptor homology (TIR) domain [IPR02182] (3); Toll/interleukin-1 receptor homology (TIR) domain [IPR000157] (3); Winged helix-turn-helix scaffold_3_mRNA_4699.1 domain [IPR001157] (3); Leucine-rich repeat domain, L-domain-like [IPR032675] (2); Leucine-rich repeat 3 [IPR011713] (1)	C_unshiu_00727_mRNA_15.1,C_unshiu_01868_mRNA_4.1	-	
GF0009763	1	2	0	Hypothetical protein (3)	Pectin lyase fold [IPR012334] (1)	scaffold_3_mRNA_4646.1	C_unshiu_00862_mRNA_1.1,C_unshiu_03021_mRNA_1.1	-	
GF0009756	1	2	0	Progesterone 5-beta-reductase (3)	NAD(P)-binding domain [IPR016040]	scaffold_3_mRNA_4631.1	C_unshiu_01232_mRNA_5.1,C_unshiu_02232_mRNA_1.1	-	
GF0009690	1	2	0	RING-U-box superfamily protein, putative isoform 3 (3)	ubiquitin-protein transferase activity [GO:0004842 molecular function] (3); protein ubiquitination [GO:0016567 biological process] (3)	E3 ubiquitin ligase RBR family [IPR031127] (3); IBB domain [IPR020667] (3)	C_unshiu_01148_mRNA_2.1,C_unshiu_01307_mRNA_1.1	-	
GF0009660	1	2	0	Hypothetical protein (2); NB-ARC 0 domain-containing disease resistance protein (1)	ADP binding [GO:0043531 molecular function] (3)	NB-ARC [IPR002182] (3); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	C_unshiu_00528_mRNA_8.1,C_unshiu_02515_mRNA_2.1	-	
GF0009656	1	2	0	Transcription elongation factor A protein 0 2 (2); Transcription elongation factor S-II (1)	nucleus [GO:0005634 cellular component] (3); transcription [GO:0006351 biological process] (3); DNA binding [GO:0006775 molecular function] (2); zinc ion binding [GO:0008270 molecular function] (2)	Transcription elongation factor S-II, central domain [IPR006181] (3); Transcription elongation factor, TFIIS CRSP-N-terminal, sub-type [IPR021717] (1); Transcription factor, IIS, N-terminal [IPR019723] (1); Transcription elongation factor S-IIIM [IPR017890] (2)	C_unshiu_00151_mRNA_18.1,C_unshiu_01481_mRNA_1.1	-	
GF0009637	1	2	0	LRR receptor-like kinase (3)	Pectin lyase fold [IPR012334] (1)	scaffold_3_mRNA_4322.1	C_unshiu_00082_mRNA_33.1,C_unshiu_01902_mRNA_2.1	-	
GF0009564	1	2	0	Epidermis-specific secreted glycoprotein EPI (1); Epidermis-specific secreted protein EPI-like glycoprotein (1); Hypothetical protein (1)	Bulb-type lectin domain [IPR001480] (2)	scaffold_3_mRNA_3973.1	C_unshiu_01045_mRNA_6.1,C_unshiu_01636_mRNA_2.1	-	
GF0009533	1	2	0	Hypothetical protein (3)	zinc ion binding [GO:0008270 molecular function] (3)	Zinc finger, GRF-type [IPR010666] (3)	scaffold_3_mRNA_3848.1	C_unshiu_00311_mRNA_7.1,C_unshiu_00945_mRNA_6.1	-
GF0009528	1	2	0	Cytochrome P450 7A1 (2); Cytochrome P450 (1)	iron ion binding [GO:0005506 molecular function] (3); heme binding [GO:0020037 molecular function] (3); oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular function] (3); oxidation-reduction process [GO:0055114 biological process] (3)	Cytochrome P450, E-class, group I [IPR00240] (1); Cytochrome P450, conserved site [IPR017972] (3); Cytochrome P450 [IPR00128] (3)	scaffold_3_mRNA_3843.1	C_unshiu_00945_mRNA_11.1,C_unshiu_01646_mRNA_3.1	-
GF0009520	1	2	0	UPF0481 protein (2); DUF247 domain protein (1)	Protein of unknown function DUF247, plant [IPR004158] (3)	scaffold_3_mRNA_3781.1	C_unshiu_00188_mRNA_18.1,C_unshiu_01092_mRNA_12.1	-	
GF0009502	1	2	0	Hypothetical protein (3)	Ribonuclease H-like domain [IPR02337] (3)	scaffold_3_mRNA_3714.1	C_unshiu_01558_mRNA_3.1,C_unshiu_02398_mRNA_3.1	-	
GF0009497	1	2	0	Hypothetical protein (3)	-	scaffold_3_mRNA_3708.1	C_unshiu_01558_mRNA_9.1,C_unshiu_01602_mRNA_1.1	-	
GF0009469	1	2	0	Hypothetical protein (3)	-	scaffold_3_mRNA_3547.1	C_unshiu_00996_mRNA_5.1,C_unshiu_01344_mRNA_6.1	-	
GF0009448	1	2	0	Hypothetical protein (3)	Domain of unknown function DUF4219 [IPR025314] (3)	scaffold_3_mRNA_3488.1	C_unshiu_00156_mRNA_4.1,C_unshiu_00556_mRNA_15.1	-	
GF0009441	1	2	0	Hypothetical protein (3)	-	scaffold_3_mRNA_3450.1	C_unshiu_00934_mRNA_10.1,C_unshiu_01158_mRNA_16.1	-	
GF0009426	1	2	0	Hypothetical protein (3)	Galactose-binding-domain-like [IPR008979] (1)	scaffold_3_mRNA_3414.1	C_unshiu_00995_mRNA_32.1,C_unshiu_01452_mRNA_5.1	-	
GF0009421	1	2	0	Hypothetical protein (3)	-	scaffold_3_mRNA_3379.1	C_unshiu_00688_mRNA_5.1,C_unshiu_00924_mRNA_13.1	-	
GF0009420	1	2	0	Hypothetical protein (3)	-	scaffold_3_mRNA_3377.1	C_unshiu_00822_mRNA_7.1,C_unshiu_01746_mRNA_5.1	-	
GF0009378	1	2	0	Hypothetical protein (2); Retrotransposon protein, putative; Ty3-gagya subclass (1)	Apartic peptidase domain [IPR021109] (1); Ribonuclease H-like domain [IPR012337] (1); Reverse transcriptase domain [IPR004477] (1); Ribonuclease H domain [IPR002156] (1)	scaffold_3_mRNA_3207.1	C_unshiu_00236_mRNA_2.1,C_unshiu_01399_mRNA_5.1	-	
GF0009325	1	2	0	Hypothetical protein (3)	Leucine-rich repeat 3 [IPR011713] (2); Leucine-rich repeat domain, L-domain-like [IPR032675] (2)	scaffold_3_mRNA_2979.1	C_unshiu_02389_mRNA_1.1,C_unshiu_03143_mRNA_1.1	-	

ID	Num. in <i>C. clementiae</i>	Num. in <i>C. unshiu</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0009321	1	2	0	Hypothetical protein (3)	Alpha/Beta hydrolase fold [IPR029058]	scaffold_3_mRNA_2930.1	C_unshiu_00384_mRNA_3.1,C_unshiu_-		
GF0009320	1	2	0	NB-ARC domain disease resistance protein (2); TIR-NBS-LRR class disease resistance protein (1)	Winged helix-turn-helix DNA-binding domain [IPR011991] (3); NB-ARC molecular_function [3]	[IPR002182] (3); P-loop containing nucleoside triphosphates hydrolase [IPR027417] (3); Leucine-rich repeat 3 [IPR011713] (1)	scaffold_3_mRNA_2898.1	C_unshiu_01094_mRNA_9.1,C_unshiu_-	
GF0009257	1	2	0	TMV resistance protein N (2); Hypothetical protein (1)	signal transduction [GO:0007165]	Toll/interleukin-1 receptor homology (TIR) domain [IPR00157] (3)	scaffold_3_mRNA_2670.1	C_unshiu_00272_mRNA_26.1,C_unshiu_-	
GF0009255	1	2	0	Ankyrin repeat family protein, putative (3)	biological_process [3]; protein binding [GO:0005515 molecular_function] (3); regulation of biological_process [GO:0000003 biological_process] (1); regulation of defense_response [GO:0031347 biological_process] (1); cellular response to salicylic acid stimulus [GO:0017446 biological_process] (1); integral component of membrane [GO:0016021 cellular_component] (1)	Ankyrin repeat-containing domain [IPR020683] (3); Ankyrin repeat [IPR02110] (3); Protein accelerated cell death 6 [IPR032846] (1)	scaffold_3_mRNA_2661.1	C_unshiu_00828_mRNA_12.1,C_unshiu_-	
GF0009243	1	2	0	AT4G0440 protein (3)	protein binding [GO:0005515 molecular_function] (3); gene_annotation [GO:0000001 molecular_function] (3); signal_transduction [GO:0007165]	Domain of unknown function DUF4378 [IPR025486] (3); Domain of unknown function DUF3741 [IPR022121] (3)	scaffold_3_mRNA_262.1	C_unshiu_00534_mRNA_4.1,C_unshiu_-	
GF0009232	1	2	0	LYR family of Fe/S cluster biogenesis protein isoform 1 (3)	Complex I LYR protein [IPR008011] (3); LYR motif-containing protein 2 [IPR026686] (3)	scaffold_3_mRNA_2580.1	C_unshiu_00015_mRNA_11.1,C_unshiu_-		
GF0009200	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_2497.1	C_unshiu_00534_mRNA_15.1,C_unshiu_-	
GF0009186	1	2	0	TMV resistance protein N (3)	protein binding [GO:0005515 molecular_function] (3); ATP binding [GO:0005524 molecular_function] (1); protein kinase activity [GO:0004672 molecular_function] (1); protein phosphorylation [GO:0006468 biological_process] (1)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3); NB-ARC [IPR002182] (3); Toll/interleukin-1 receptor homology (TIR) domain [IPR02110] (3); Leucine-rich repeat [IPR011713] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (2); Protein kinase, ATP binding site [IPR017441] (1); Leucine-rich repeat, typical subtype [IPR003591] (1); Protein kinase-like domain [IPR011009] (1)	scaffold_3_mRNA_2433.1	C_unshiu_00476_mRNA_12.1,C_unshiu_-	
GF0009173	1	2	0	Protein AIG1 (3)	GTP binding [GO:0005525 molecular_function] (3)	AIG1-type gamma-maktopeptide-binding (G) domain [IPR006703] (3); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3)	scaffold_3_mRNA_2372.1	C_unshiu_00373_mRNA_11.1,C_unshiu_-	
GF0009163	1	2	0	Transcription termination factor family protein (2); Hypothetical protein (1)	transcription termination, bimodal [GO:0003690 molecular_function] (2); regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); mitochondrial [GO:0005739 cellular_component] (2)	Mitochondrial transcription termination factor [IPR03690] (2)	scaffold_3_mRNA_2344.1	C_unshiu_00625_mRNA_15.1,C_unshiu_-	
GF0009145	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_2295.1	C_unshiu_00100_mRNA_16.1,C_unshiu_-	
GF0009100	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_2112.1	C_unshiu_00916_mRNA_13.1,C_unshiu_-	
GF0009058	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_1949.1	C_unshiu_00100_mRNA_20.1,C_unshiu_-	
GF0009024	1	2	0	Hypothetical protein (2); Polyimocytidyl transferase, ribonuclease H-like superfamily protein (1)	nucleic acid binding [GO:0003676 molecular_function] (3)	Ribonuclease H-like domain [IPR012337] (3)	scaffold_3_mRNA_1742.1	C_unshiu_00023_mRNA_6.1,C_unshiu_-	
GF0009021	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_1732.1	C_unshiu_00948_mRNA_12.1,C_unshiu_-	
GF0009020	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_1731.1	C_unshiu_01886_mRNA_5.1,C_unshiu_-	
GF0009014	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_1712.1	C_unshiu_00512_mRNA_10.1,C_unshiu_-	
GF0009013	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_1704.1	C_unshiu_00542_mRNA_7.1,C_unshiu_-	
GF0009008	1	2	0	Mitochondrial substrate carrier family protein B (3)	transmembrane transport [GO:0005085 biological_process] (3)	Mitochondrial substrate/solute carrier [IPR018108] (3); Mitochondrial carrier domain [IPR023951] (3); Mitochondrial carrier protein [IPR02067] (3)	scaffold_3_mRNA_168.1	C_unshiu_00495_mRNA_15.1,C_unshiu_-	
GF0009002	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_166.1	C_unshiu_00609_mRNA_7.1,C_unshiu_-	
GF0008986	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_1616.1	C_unshiu_00010_mRNA_14.1	
GF0008955	1	2	0	Hypothetical protein (3)	polysaccharide binding [GO:0030247 molecular_function] (3)	Wall-associated receptor kinase, galacturonan-binding domain [IPR025287] (3)	scaffold_3_mRNA_1507.1	C_unshiu_01368_mRNA_5.1,C_unshiu_-	
GF0008934	1	2	0	SFBBbeta protein (2); S locus F-box protein with the low allele sequence polymorphism I-S2 (1)	protein binding [GO:0005515 molecular_function] (3)	F-box/WD40 repeat interaction domain [IPR011251] (3); F-box domain [IPR008110] (3); Galactose oxidase/kelch-beta-propeller domain type 3 [IPR013187] (1)	scaffold_3_mRNA_1448.1	C_unshiu_00285_mRNA_33.1,C_unshiu_-	
GF0008908	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_1384.1	C_unshiu_00284_mRNA_26.1,C_unshiu_-	
GF0008829	1	2	0	Hypothetical protein (3)	nucleic acid binding [GO:0003676 molecular_function] (1); protein processing [GO:0016485 biological_process] (3); aspartic-type endopeptidase activity [GO:00004190 molecular_function] (3); integral component of membrane [GO:0016021 cellular_component] (3)	Ribonuclease H-like domain [IPR0012337] (1)	scaffold_3_mRNA_1194.1	C_unshiu_00965_mRNA_4.1,C_unshiu_-	
GF0008772	1	2	0	Preseminin (3)	DNA binding [GO:0003676 molecular_function] (3); regulation of transcription, DNA-templated [GO:0006355 biological_process] (3)	Protein-specific peptide peptidase [IPR006639] (3); Peptidase A22A, preseminin [IPR001108] (3)	scaffold_3_mRNA_1101.1	C_unshiu_00154_mRNA_37.1,C_unshiu_-	
GF0008762	1	2	0	Hypothetical protein (3)	cysteine-type peptidase activity [GO:0000234 molecular_function] (1); proteolysis [GO:000508 biological_process] (1)	NAC domain [IPR003441] (3)	scaffold_3_mRNA_1090.1	C_unshiu_00154_mRNA_48.1,C_unshiu_-	
GF0008609	1	2	0	Hypothetical protein (3)			scaffold_2_mRNA_780.1	C_unshiu_00260_mRNA_20.1,C_unshiu_-	
GF0008380	1	2	0	Hypothetical protein (3)	cysteine-type peptidase activity [GO:0000234 molecular_function] (1); proteolysis [GO:000508 biological_process] (1)	Domain of unknown function DUF1985 [IPR015410] (2); Ulp1 protease family, C-terminal catalytic domain [IPR003653] (1)	scaffold_2_mRNA_457.1	C_unshiu_00147_mRNA_4.1,C_unshiu_-	
GF0007883	1	2	0	Hypothetical protein (3)			scaffold_2_mRNA_3899.1	C_unshiu_00125_mRNA_46.1,C_unshiu_-	
GF0007409	1	2	0	Hypothetical protein (3)			scaffold_2_mRNA_3051.1	C_unshiu_00081_mRNA_74.1,C_unshiu_-	
GF0007408	1	2	0	Receptor like protein 6 (1); Vertebrum with disease resistance protein (1); Leucine-rich repeat, plant specific (1)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat domain, L-domain-like [IPR032675] (3); Leucine-rich repeat [IPR001611] (2)	scaffold_2_mRNA_3043.1	C_unshiu_01944_mRNA_1.1	
GF0007315	1	2	0	Hypothetical protein (3)	metabolic_process [GO:00008152 biological_process] (3); terpenoid synthase activity [GO:0010333 molecular_function] (3); lyase activity [GO:0016829 molecular_function] (3); magnesium ion binding [GO:0000287 molecular_function] (3)	Isoenzymatic synthase domain [IPR008949] (3); Terpenoid cyclases protein transhydrogenase alpha-alpha toroid [IPR008930] (3); Terpene synthase, N-terminal domain [IPR001906] (3); Terpene synthase, metal-binding domain [IPR026960] (3)	scaffold_2_mRNA_2851.1	C_unshiu_00142_mRNA_24.1,C_unshiu_-	
GF0007257	1	2	0	Limonene synthase (3)			scaffold_2_mRNA_2700.1	C_unshiu_00663_mRNA_11.1,C_unshiu_-	
GF0007242	1	2	0	Chaperonin ATPase (3)	ATP binding [GO:0005524 molecular_function] (3); protein refolding [GO:0042026 biological_process] (2); cytoplasm [GO:0005737 cellular_component] (2)	GroEL-like equatorial domain [IPR027413] (3); GroEL-like apical domain [IPR027409] (3); Chaperonin Cpf0/TCP-1 family [IPR002423] (3); Cpf0-like chaperone intermediate domain [IPR027410] (2); Chaperonin Cpf0 [IPR001844] (2)	scaffold_2_mRNA_2638.2	C_unshiu_00833_mRNA_12.1,C_unshiu_-	
GF0007231	1	2	0	Hypothetical protein (3)			scaffold_2_mRNA_2570.1	C_unshiu_00953_mRNA_5.1,C_unshiu_-	
GF0007204	1	2	0	Hypothetical protein (3)			scaffold_2_mRNA_2478.1	C_unshiu_00565_mRNA_4.1,C_unshiu_-	
GF0007192	1	2	0	Protein phosphatase 1 regulatory subunit ppp1 (3)	protein binding [GO:0005515 molecular_function] (3)	Leucine-rich repeat [IPR001611] (3); Leucine-rich repeat domain, L-domain-like [IPR032675] (3); Leucine-rich repeat, typical subtype [IPR000303] (3); Endopeptidase/exo-cysteine/protease/phosphatase [IPR005135] (2)	scaffold_2_mRNA_2342.1	C_unshiu_01397_mRNA_8.1,C_unshiu_-	
GF0007190	1	2	0	Hypothetical protein (3)			scaffold_2_mRNA_2332.1	C_unshiu_00871_mRNA_15.1,C_unshiu_-	
GF0007124	1	2	0	Hypothetical protein (3)			scaffold_2_mRNA_191.1	C_unshiu_01873_mRNA_9.1,C_unshiu_-	
GF0007113	1	2	0	Hypothetical protein (3)	nucleic acid binding [GO:0003676 molecular_function] (1)	OAG-pre-integrase domain [IPR025724] (2); Ribonuclease H-like domains [IPR012337] (1); Reverse transcriptase, RNA-dependent DNA polymerase [IPR013103] (1)	scaffold_2_mRNA_1882.1	C_unshiu_00543_mRNA_1.1,C_unshiu_-	

ID	Num in <i>C. clementine</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementine</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0006985	1	2	0	Nudix hydrolase 17, mitochondrial (3)	hydrolase activity [GO:0016787]; molecular function [3]	NUDIX hydrolase domain-like [IPR015797] (3); NUDIX hydrolase, conserved site [IPR02084] (3); NUDIX hydrolase domain [IPR008086] (3)	scaffold_2_mRNA_1517.1	C_unshiu_00653_mRNA_11.C_unshiu_02017_mRNA_3.1	
GF0006896	1	2	0	Ankyrin repeat family protein, putative (3)	protein binding [GO:0005515]; molecular function [3]; cellular response to biotic stimulus [GO:000971446]	PGM domain [IPR026961] (3); Ankyrin repeat-containing domain [IPR020683] (3); Ankyrin repeat [IPR002110] (3); salicylic acid mediated signaling pathway [GO:2000031 biological_process] (1); regulation of defense response [GO:0031347 biological_process] (1)	scaffold_2_mRNA_1304.1	C_unshiu_00987_mRNA_10.C_unshiu_01842_mRNA_1.1	
GF0006851	1	2	0	Hypothetical protein (3)			scaffold_2_mRNA_1236.1	C_unshiu_00049_mRNA_33.C_unshiu_00049_mRNA_34.1	
GF0006675	1	2	0	Hypothetical protein (3)			scaffold_1_mRNA_983.1	C_unshiu_00191_mRNA_27.C_unshiu_01414_mRNA_10.1	
GF0006640	1	2	0	Hypothetical protein (3)	nucleic acid binding [GO:0003676]; molecular function [3]; protein dimerization activity [GO:0046983]	HAT, C-terminal dimerisation domain [IPR008906] (3); Ribonuclease H-like domain [IPR012337] (3)	scaffold_1_mRNA_911.1	C_unshiu_00068_mRNA_59.C_unshiu_00857_mRNA_12.1	
GF0006558	1	2	0	Hypothetical protein (2); Transposon protein, putative, unclassified (1)	protein binding [GO:0005515]; molecular function [2]	Leucine-rich repeat domain, L-domain-like [IPR032675] (3); Leucine-rich repeat-containing domain [IPR01611] (2); Leucine-rich repeat-containing domain [IPR013210] (2)	scaffold_1_mRNA_706.1	C_unshiu_00242_mRNA_11.C_unshiu_00572_mRNA_3.1	
GF0006292	1	2	0	Hypothetical protein (3)			scaffold_1_mRNA_3546.1	C_unshiu_00005_mRNA_11.C_unshiu_01994_mRNA_5.1	
GF0006038	1	2	0	Cysteine-rich RLK (RECEPTOR-like protein kinase) 8; Polypeptidol (1)	nucleic acid binding [GO:0003676]; molecular function [2]; zinc ion binding [GO:0008270 molecular function] (1)	Zinc finger, CCHC-type [IPR001878] (1); GAG-pro-intergrin domain [IPR025724] (1); Ribonuclease H-like domain [IPR012337] (1); Reverse transcriptase, RNA-dependent DNA polymerase [IPR000310] (1)	scaffold_1_mRNA_316.1	C_unshiu_00169_mRNA_11.C_unshiu_00193_mRNA_12.1	
GF0005662	1	2	0	Plant natriuretic peptide A (3)		Expansin/polysaccharide-binding domain [IPR007112] (3); RhaA-like double-pi beta-barrel domain [IPR009009] (2); RhaA-like protein, double-pi beta-barrel domain [IPR009009] (1)	scaffold_1_mRNA_250.1	C_unshiu_00553_mRNA_11.C_unshiu_00749_mRNA_15.1	
GF0005630	1	2	0	Hypothetical protein (3)		Transposase, MuDR, plant [IPR004332]	scaffold_1_mRNA_239.1	C_unshiu_01092_mRNA_21.C_unshiu_02810_mRNA_2.1	
GF0005613	1	2	0	Hypothetical protein (2); Cysteine-rich RLK (Receptor-like kinase) protein (1)	protein serine/threonine kinase activity [GO:0004674 molecular function] (3); ATP binding [GO:0004672 molecular function] (2)	S-threonine/threonine kinase, C-terminal domain [IPR011009] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1); Serine/threonine/protein kinase, active site [IPR008271] (1); Protein kinase domain [IPR000719] (1)	scaffold_1_mRNA_2312.1	C_unshiu_00054_mRNA_10.C_unshiu_02084_mRNA_6.1	
GF0005612	1	2	0	Hypothetical protein (3)			scaffold_1_mRNA_2310.1	C_unshiu_00021_mRNA_12.C_unshiu_00688_mRNA_15.1	
GF0005408	1	2	0	Hypothetical protein (3)			scaffold_1_mRNA_1742.1	C_unshiu_00097_mRNA_51.C_unshiu_00167_mRNA_8.1	
GF0005359	1	2	0	Hypothetical protein (3)			scaffold_1_mRNA_1599.1	C_unshiu_00058_mRNA_14.C_unshiu_01614_mRNA_4.1	
GF0005351	1	2	0	Cytokinin riboside 5'-monophosphate phosphotransferase		LOG family [IPR031100] (3); Cytokinin riboside 5'-monophosphate phosphotransferase LOG [IPR005269]	scaffold_1_mRNA_1561.1	C_unshiu_01470_mRNA_61.C_unshiu_02288_mRNA_3.1	
GF0005344	1	2	0	Zinc knuckle family protein (3)	zinc ion binding [GO:0008270 molecular function] (3); nucleic acid binding [GO:0006767 molecular function] (3)	Zinc finger, CCHC-type [IPR001878] (3); Domain of unknown function DUF4219 [IPR025314] (2)	scaffold_1_mRNA_1547.1	C_unshiu_00890_mRNA_21.C_unshiu_01153_mRNA_7.1	
GF0005335	1	2	0	Hypothetical protein (3)			scaffold_1_mRNA_1525.1	C_unshiu_00031_mRNA_33.C_unshiu_00450_mRNA_2.1	
GF0005190	1	2	0	Hypothetical protein (3)			scaffold_1_mRNA_1028.1	C_unshiu_00198_mRNA_31.C_unshiu_01216_mRNA_9.1	
GF0005077	1	3	0	Dienelactone hydrolase family, putative (4)	hydrolase activity [GO:0016787 molecular function] (4)	Dienelactone hydrolase [IPR002925] (4); Alpha-Beta hydrolase fold [IPR0029058] (4)	scaffold_9_mRNA_455.1	C_unshiu_00097_mRNA_36.C_unshiu_01541_mRNA_9.1	
GF0005023	1	3	0	LRR receptor-like kinase family protein (4)	protein binding [GO:0005515 molecular function] (4); protein phosphorylation [GO:0004672 molecular function] (4); protein phosphorylation [GO:0006468 biological process] (4); ATP binding [GO:0005524 molecular function] (4)	Protein kinase domain [IPR000719] (4); Protein kinase-like domain [IPR011009] (4); Leucine-rich repeat domain, L-domain-like [IPB032675] (4); Leucine-rich repeat, typical subtype [IPB0003591] (4); Serine/threonine/tyrosine-containing N-terminal phosphate group [IPB010010] (4); Serine/threonine-protein kinase, active site [IPR008271] (4); Protein kinase, ATP binding site [IPR017441] (4); Leucine-rich repeat [IPR001611] (4); Serine/threonine-protein kinase, active site [IPR008271] (4); Protein kinase domain [IPR000719] (4)	scaffold_9_mRNA_2973.1	C_unshiu_00132_mRNA_13.C_unshiu_00345_mRNA_29.1.C_unshiu_01900_mRNA_3.1	
GF0005020	1	3	0	Hypothetical protein (2); Systemin receptor SR160, putative (2)	protein kinase activity [GO:0004672 molecular function] (4); Serine/threonine phosphorylation [GO:0006468 biological process] (4); ATP binding [GO:0005524 molecular function] (4)	Serine/threonine/dual specific protein kinase, catalytic domain [IPR002290] (3); Serine/threonine-tyrosine-protein kinase, catalytic domain [IPR001245] (1); Serine/threonine-tyrosine-protein kinase, catalytic domain [IPR001245] (1); Serine/threonine-protein kinase, active site [IPR008271] (4); Protein kinase-like domain [IPR000719] (4); Protein kinase domain [IPR000719] (4)	scaffold_9_mRNA_2964.1	C_unshiu_00095_mRNA_11.C_unshiu_01005_mRNA_1.C_unshiu_01921_mRNA_4.1	
GF0005015	1	3	0	Disease resistance protein (4)	protein binding [GO:0005515 molecular function] (4); ADP binding [GO:0043531 molecular function] (4)	NB-ARC [IPR021282] (4); P-loop containing nucleoside triphosphate domain [IPR001174] (4); Leucine-rich repeat domain, L-domain-like [IPR032675] (4); Winged helix-turn-helix DNA-binding domain [IPR011991] (1); Receptor L-domain [IPR000494] (1)	scaffold_9_mRNA_2906.1	C_unshiu_00478_mRNA_18.C_unshiu_00478_mRNA_2.1	
GF0004978	1	3	0	Hypothetical protein (2); RNA-directed type retrotransposon L1b DNA Insertion at the S11 site-like protein (1)	nucleic acid binding [GO:0003676 molecular function] (2)	Reverse transcriptase domain [IPR005135] (1); Domains of unknown function DUF4283 [IPR025558]	scaffold_9_mRNA_2195.1	C_unshiu_00241_mRNA_21.C_unshiu_00938_mRNA_17.C_unshiu_01718_mRNA_1.1	
GF0004976	1	3	0	Hypothetical protein (3); DUF4283		Domain of unknown function DUF4283 [IPR025558]	scaffold_9_mRNA_2151.1	C_unshiu_00107_mRNA_44.C_unshiu_00107_mRNA_45.1.C_unshiu_00957_mRNA_14.1	
GF0004969	1	3	0	Hypothetical protein (4)			scaffold_9_mRNA_200.1	C_unshiu_010104_mRNA_9.1.C_unshiu_01866_mRNA_9.1	
GF0004930	1	3	0	Hypothetical protein (4)			scaffold_9_mRNA_1450.1	C_unshiu_00468_mRNA_51.C_unshiu_00776_mRNA_11.C_unshiu_01292_mRNA_6.1	
GF0004913	1	3	0	Hypothetical protein (4)			scaffold_8_mRNA_966.1	C_unshiu_00094_mRNA_37.C_unshiu_00122_mRNA_51.C_unshiu_01451_mRNA_4.1	
GF0004897	1	3	0	Hypothetical protein (3); Peptidase	aspartic-type endopeptidase activity [GO:000190 molecular function] (2); peptidase [GO:0006508 biological process] (2)	Retroviral aspartyl protease [IPR013242] (2); Aspartic peptidase domain [IPR021109] (2); Retrotransposon gag protein [IPR005162] (2); Aspartic peptidase, active site [IPR001969] (2); Chromo-domain-like [IPR061617] (1)	scaffold_8_mRNA_757.1	C_unshiu_00061_mRNA_59.C_unshiu_00766_mRNA_41.C_unshiu_01741_mRNA_1.1	
GF0004808	1	3	0	Kiwellin (4)		RipA-like double-pi beta-barrel domain [IPR00909] (3); RipA-like protein, double-pi beta-barrel domain [IPR00909] (1)	scaffold_8_mRNA_2743.1	C_unshiu_00438_mRNA_26.C_unshiu_00808_mRNA_14.1.C_unshiu_02581_mRNA_3.1	
GF0004706	1	3	0	Hypothetical protein (4)			scaffold_8_mRNA_1684.1	C_unshiu_00073_mRNA_30.C_unshiu_01134_mRNA_11.C_unshiu_01665_mRNA_6.1	
GF0004702	1	3	0	Hypothetical protein (4)			scaffold_8_mRNA_1589.1	C_unshiu_00080_mRNA_13.C_unshiu_01136_mRNA_11.C_unshiu_01407_mRNA_15.1	
GF0004680	1	3	0	Hypothetical protein (2); Ribonuclease H-like superfamily protein (1); Poly nucleotidyl transferase, Ribonuclease H fold (1)	nucleic acid binding [GO:0003676 molecular function] (4); zinc ion binding [GO:0008270 molecular function] (1)	Reverse transcriptase zinc-binding domain [IPR020960] (4); Ribonuclease H-like domain [IPR021237] (4); Endonuclease/exonuclease/phosphatase [IPR005135] (2); Domains of unknown function DUF4283 [IPR025558] (1); Zinc knuckle CX2CX4HX4C [IPR025836] (1); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_8_mRNA_1295.1	C_unshiu_00004_mRNA_109.C_unshiu_00006_mRNA_120.C_unshiu_01309_mRNA_8.1	

ID	Num in <i>C. clementiae</i>	Num in <i>C. unshiu</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. unshiu</i>	Members in <i>P. trifoliata</i>
GF0004665	1	3	0	BED zinc finger, hAT family dimerization domain (4)	protein dimerization activity [GO:0046983 molecular function] (4); nucleic acid binding [GO:0003676 molecular function] (4); DNA binding [GO:0003677 molecular function] (3)	HAT, C-terminal dimerization domain [IPR008906] (4); Ribonuclease H-like domain [IPR012337] (4); hAT-like transposase, RNase-H fold [IPR025525] (3)	scaffold_8_mRNA_1112.1	C.unshiu_00821_mRNA_13.1.C.unshiu_01012_mRNA_7.1.C.unshiu_01215_mRNA_7.1	
GF0004503	1	3	0	Hypothetical protein (4)			scaffold_7_mRNA_2125.1	C.unshiu_00274_mRNA_30.1.C.unshiu_00479_mRNA_10.1.C.unshiu_00638_mRNA_8.1	
GF0004394	1	3	0	Hypothetical protein (4)			scaffold_6_mRNA_63.1	C.unshiu_00028_mRNA_30.1.C.unshiu_00057_mRNA_38.1.C.unshiu_01792_mRNA_1.1	
GF0004392	1	3	0	Hypothetical protein (4)			scaffold_6_mRNA_580.1	C.unshiu_00274_mRNA_30.1.C.unshiu_01145_mRNA_14.1.C.unshiu_01969_mRNA_3.1	
GF0004386	1	3	0	Hypothetical protein (4)			scaffold_6_mRNA_5.1	C.unshiu_00635_mRNA_13.1.C.unshiu_01511_mRNA_7.1.C.unshiu_02322_mRNA_3.1	
GF0004321	1	3	0	Hypothetical protein (4)			scaffold_6_mRNA_206.1	C.unshiu_00358_mRNA_7.1.C.unshiu_00577_mRNA_10.1.C.unshiu_01568_mRNA_17.1	
GF0004299	1	3	0	Hypothetical protein (4)	protein dimerization activity [GO:0046983 molecular function] (4); nucleic acid binding [GO:0003676 molecular function] (4)	HAT, C-terminal dimerization domain [IPR008906] (4); Ribonuclease H-like domain [IPR012337] (4)	scaffold_6_mRNA_1625.1	C.unshiu_00016_mRNA_39.1.C.unshiu_00102_mRNA_48.1.C.unshiu_00661_mRNA_1.1	
GF0004192	1	3	0	Hypothetical protein (2); Putative non-LTR reverse transcriptase (1); Putative non-LTR retroelement reverse transcriptase (1)		Reverse transcriptase zinc-binding domain [IPR026960] (4); Ribonuclease H-like domain [IPR012337] (2); Endonuclease/exonuclease phosphatase [IPR005135] (1)	scaffold_5_mRNA_5121.1	C.unshiu_00003_mRNA_42.1.C.unshiu_00164_mRNA_34.1.C.unshiu_01461_mRNA_4.1	
GF0003985	1	3	0	Hypothetical protein (4)	transferease activity, transferring hexosyl groups [GO:0016758 molecular function] (4); metabolic process [GO:0008152 biological process] (4)	UDP-glucuronosyl UDP-glucosyltransferase [IPR002213] (4)	scaffold_5_mRNA_2789.1	C.unshiu_00018_mRNA_6.1.C.unshiu_01306_mRNA_8.1.C.unshiu_01408_mRNA_5.1	
GF0003982	1	3	0	Disease resistance protein (CC-NBS-LRR class) family protein (4)	ADP binding [GO:0043531 molecular function] (4)	Lysine-rich repeat domain, I domain-like [IPR023270] (4); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (4); NB-ARC [IPR002182] (4); AAA+ ATPase domain [IPR003593] (2); Winged helix-turn-helix-DNA-binding domain [IPR011991] (1)		C.unshiu_00069_mRNA_9.1.C.unshiu_00775_mRNA_13.1.C.unshiu_00991_mRNA_11.1	
GF0003952	1	3	0	Hypothetical protein (4)		Viral movement protein [IPR028919] (4)	scaffold_5_mRNA_2127.1	C.unshiu_00287_mRNA_5.1.C.unshiu_00374_mRNA_22.1.C.unshiu_01530_mRNA_9.1	
GF0003947	1	3	0	Hypothetical protein (4)	cysteine-type peptidase activity [GO:0008234 molecular function] (3); proteolysis [GO:0006508 biological process] (3)	Ulp1 protease family, C-terminal catalytic domain [IPR003653] (3)	scaffold_5_mRNA_2021.1	C.unshiu_00469_mRNA_14.1.C.unshiu_00924_mRNA_18.1.C.unshiu_02936_mRNA_1.1	
GF0003871	1	3	0	Hypothetical protein (4)			scaffold_5_mRNA_1239.1	C.unshiu_00776_mRNA_2.1.C.unshiu_01392_mRNA_1.1.C.unshiu_02114_mRNA_4.1	
GF0003491	1	3	0	Hypothetical protein (4)			scaffold_3_mRNA_4496.1	C.unshiu_00471_mRNA_8.1.C.unshiu_01119_mRNA_4.1.C.unshiu_01443_mRNA_5.1	
GF0003470	1	3	0	Hypothetical protein (4)			scaffold_3_mRNA_4276.1	C.unshiu_00031_mRNA_59.1.C.unshiu_00075_mRNA_60.1.C.unshiu_00191_mRNA_2.1	
GF0003365	1	3	0	Hypothetical protein (3); LRR and NIB-0 ABC domain disease resistance protein, putative (1)	ribosome [GO:0008340 cellular component] (1); structural constituent of ribosome [GO:0003735 molecular function] (1); translation [GO:0006412 biological process] (1)	Ribosome [IPR013675] (4); Ribosomal protein L2 domain [IPR014726] (1); Ribosomal protein L2 domain [IPR014722] (1); Ribosomal protein L2, C-terminal [IPR022669] (1); Translation protein SH3-like domain [IPR008911] (1)	scaffold_3_mRNA_3089.1	C.unshiu_00117_mRNA_17.1.C.unshiu_01392_mRNA_3.1.C.unshiu_02119_mRNA_5.1	
GF0003322	1	3	0	TMV resistance protein N (3); Hypothetical protein (1)	signal transduction [GO:0001765 biological process] (4); protein binding [GO:0005515 molecular function] (4)	Toll-interleukin-1 receptor homology (TIR) domain [IPR000157] (4)	scaffold_3_mRNA_2711.1	C.unshiu_00272_mRNA_17.1.C.unshiu_01276_mRNA_11.1.C.unshiu_02064_mRNA_5.1	
GF0003318	1	3	0	Hypothetical protein (4)			scaffold_3_mRNA_2643.1	C.unshiu_00708_mRNA_9.1.C.unshiu_00928_mRNA_1.1.C.unshiu_02315_mRNA_1.1	
GF0003224	1	3	0	Hypothetical protein (4)			scaffold_3_mRNA_1480.1	C.unshiu_00169_mRNA_27.1.C.unshiu_00229_mRNA_43.1.C.unshiu_01764_mRNA_4.1	
GF0003097	1	3	0	Non-LTR reverse transcriptase (2); Non-LTR retroelement reverse transcriptase-like protein (1); Hypothetical protein (1)	RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular function] (1); nucleic acid binding [GO:0003676 molecular function] (1)	Endonuclease/exonuclease phosphatase [IPR005135] (4); Reverse transcriptase-zinc-binding domain [IPR026960] (2); Nucleotide-diphospho-sugar transferases [IPR005135] (2); Domain of unknown function [IPR003581] (1); Zinc ion binding [IPR025356] (1); Zinc knuckle CX2CX4HX4C [IPR025356] (1); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_2_mRNA_4189.1	C.unshiu_00401_mRNA_26.1.C.unshiu_01062_mRNA_5.1.C.unshiu_02943_mRNA_2.1	
GF0003021	1	3	0	Hypothetical protein (4)		Domain of unknown function DUF4218 [IPR025452] (1)	scaffold_2_mRNA_2815.1	C.unshiu_00036_mRNA_79.1.C.unshiu_00089_mRNA_25.1.C.unshiu_00893_mRNA_13.1	
GF0002984	1	3	0	Hypothetical protein (4)			scaffold_2_mRNA_2200.1	C.unshiu_00056_mRNA_68.1.C.unshiu_00171_mRNA_3.1.C.unshiu_01030_mRNA_8.1	
GF0002865	1	3	0	Hypothetical protein (4)	calcium ion binding [GO:0005509 molecular function] (4)	EF-hand domain pair [IPR011992] (4); EF-hand domain [IPR020488] (4)	scaffold_1_mRNA_585.1	C.unshiu_00203_mRNA_23.1.C.unshiu_00638_mRNA_20.1.C.unshiu_00662_mRNA_18.1	
GF0002857	1	3	0	Hypothetical protein (4)		Domain of unknown function DUF1985 [IPR015410] (4)	scaffold_1_mRNA_435.1	C.unshiu_00001_mRNA_236.1.C.unshiu_00958_mRNA_1.1.C.unshiu_01032_mRNA_8.1	
GF0002726	1	3	0	Hypothetical protein (4)	GDP-fucose protein O-fucosyltransferase [IPR019378] (4)	GDP-fucose protein O-fucosyltransferase [IPR019378] (4)	scaffold_1_mRNA_1619.1	C.unshiu_00205_mRNA_27.1.C.unshiu_01378_mRNA_2.1.C.unshiu_02317_mRNA_1.1	
GF0002715	1	3	0	Hypothetical protein (4)	nucleic acid binding [GO:0003676 molecular function] (3); zinc ion binding [GO:0008270 molecular function] (3); proteolysis [GO:0006508 biological process] (3); aspartic-type endopeptidase activity [GO:0004190 molecular function] (2)	Zinc finger, CCHC-type [IPR001878] (3); Aspartic peptidase domain [IPR021109] (3); Peptidase A2A, retrovirus, catalytic [IPR001995] (2); Retropapsins [IPR018061] (2)	scaffold_1_mRNA_1499.1	C.unshiu_00104_mRNA_3.1.C.unshiu_00145_mRNA_32.1.C.unshiu_00198_mRNA_30.1	
GF0002714	1	3	0	Hypothetical protein (4)	biological process [GO:0003696 molecular function] (3); zinc ion binding [GO:0003676 molecular function] (3)	Reverse transcriptase domain [IPR000477] (4); Zinc finger, CCHC-type [IPR001878] (1); Aspartic peptidase domain [IPR021109] (1); Zinc finger, CCHC-type [IPR001878] (1); Aspartic peptidase, active site [IPR001969] (1)	scaffold_1_mRNA_1494.1	C.unshiu_00239_mRNA_22.1.C.unshiu_00280_mRNA_17.1.C.unshiu_01400_mRNA_4.1	
GF0002712	1	3	0	Hypothetical protein (4)			scaffold_1_mRNA_1471.1	C.unshiu_00145_mRNA_50.1.C.unshiu_01649_mRNA_4.1.C.unshiu_01695_mRNA_14.1	
GF0002708	1	3	0	Hypothetical protein (4)			scaffold_1_mRNA_1391.1	C.unshiu_00020_mRNA_66.1.C.unshiu_00145_mRNA_2.1.C.unshiu_01687_mRNA_8.1	
GF0002704	1	3	0	Hypothetical protein (4)			scaffold_1_mRNA_1301.1	C.unshiu_001016_mRNA_16.1.C.unshiu_00801_mRNA_11.1.C.unshiu_01478_mRNA_9.3	
GF0002683	1	3	0	Hypothetical protein (4)			scaffold_1_mRNA_1014.1	C.unshiu_00584_mRNA_22.1.C.unshiu_00584_mRNA_34.1.C.unshiu_00584_mRNA_26.1	
GF0002519	1	4	0	Hypothetical protein (5)			scaffold_8_mRNA_1590.1	C.unshiu_00174_mRNA_45.1.C.unshiu_00287_mRNA_3.1.C.unshiu_01407_mRNA_16.1.C.unshiu_01432_mRNA_3.1	
GF0002412	1	4	0	Hypothetical protein (5)			scaffold_6_mRNA_2940.1	C.unshiu_00644_mRNA_21.1.C.unshiu_00865_mRNA_1.1.C.unshiu_00887_mRNA_4.1.C.unshiu_01708_mRNA_3.1	
GF0002394	1	4	0	Hypothetical protein (5)			scaffold_6_mRNA_2090.1	C.unshiu_00356_mRNA_15.1.C.unshiu_01363_mRNA_2.1.C.unshiu_02715_mRNA_1.1.C.unshiu_02742_mRNA_4.1	
GF0002256	1	4	0	Hypothetical protein (5)			scaffold_5_mRNA_2496.1	C.unshiu_00009_mRNA_96.1.C.unshiu_01216_mRNA_7.1.C.unshiu_02167_mRNA_3.1	
GF0002094	1	4	0	Cytochrome P450 83B1 (5)	heme binding [GO:0020037 molecular function] (5); iron ion binding [GO:0005506 molecular function] (5); oxidoreductase activity, acting on reduced donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular function] (5); oxidation-reduction process [GO:005514 biological process] (5)	Cytochrome P450 [IPR001128] (5); Cytochrome P450, conserved site [IPR017972] (5); Cytochrome P450, E-class, group I [IPR002401] (5)	scaffold_3_mRNA_4861.1	C.unshiu_00036_mRNA_15.1.C.unshiu_01363_mRNA_2.1.C.unshiu_02715_mRNA_1.1.C.unshiu_02742_mRNA_4.1	

ID	Num in <i>C. clementinae</i>	Num in <i>C. umshui</i>	Num in <i>P. trifoliae</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>Candida</i>	Members in <i>P. trifoliae</i>
GF0002070	1	4	0	Hypothetical protein (3); Selomprotein (2)	Thioredoxin-like fold [IPR012336] (5); Sep15/SelM redox [IPR014912] (4); Selomprotein Sep15/SelM [IPR014912] (1)	scaffold_3_mRNA_4346.1	C_umshui_00054_mRNA_53.1,C_umshui_00787_mRNA_2.1,C_umshui_00787_mRNA_6.1		
GF0002061	1	4	0	Hypothetical protein (3); Monosaccharide transport protein (2)		scaffold_3_mRNA_3939.1	C_umshui_00022_mRNA_40.1,C_umshui_00101_mRNA_44.1,C_umshui_01265_mRNA_12.1,C_umshui_02081_mRNA_1		
GF0001759	1	4	0	Ac-like transposase (4); Hypothetical protein (1)	DNA binding [GO:0003677 molecular function] (4); nucleic acid binding [GO:0003676 molecular function] (4)	Ribonuclease H-like domain [IPR012337] (4); hAT-like transposase, RNase-H fold [IPR025525] (4)	scaffold_1_mRNA_1878.1	C_umshui_00099_mRNA_98.1,C_umshui_00897_mRNA_7.1,C_umshui_01096_mRNA_1.1,C_umshui_02165_mRNA_3.1	