

Supplemental Table 6. Mandarin (*C. Clementina* and *C. unshui*) specific gene groups and annotation

ID	Num. in <i>C. Clementina</i>	Num in <i>C. unshui</i>	Num in <i>Parfolata</i>	Note	GO	InterPro	Members in <i>C. Clementina</i>	Members in <i>C. unshui</i>	Members in <i>Parfolata</i>
GF0000019	21	10	0	Hypothetical protein (31)			scaffold_1_mRNA_511.1.scaffold_3_mRNA_14.1.scaffold_3_mRNA_1514.1.scaffold_3_mRNA_220.1.scaffold_3_mRNA_3574.1.scaffold_3_mRNA_3785.1.scaffold_3_mRNA_7601.1.scaffold_5_mRNA_3887.1.scaffold_5_mRNA_4369.1.scaffold_5_mRNA_4932.1.scaffold_6_mRNA_1884.1.scaffold_7_mRNA_1036.1.scaffold_7_mRNA_1928.1.scaffold_7_mRNA_4601.1.scaffold_7_mRNA_101.1.scaffold_7_mRNA_864.1.scaffold_8_mRNA_3093.1.scaffold_9_mRNA_229.1.scaffold_9_mRNA_3409.1	C.unshui_00008_mRNA_15.1.C.unshui_00141_mRNA_48.1.C.unshui_00141_mRNA_48.1.C.unshui_00185_mRNA_9.1.C.unshui_00217_mRNA_43.1.C.unshui_00514_mRNA_15.1.C.unshui_00527_mRNA_1928.1.scaffold_7_mRNA_4601.1.scaffold_7_mRNA_101.1.scaffold_7_mRNA_864.1.scaffold_8_mRNA_3093.1.scaffold_9_mRNA_229.1.scaffold_9_mRNA_3409.1	
GF0000066	12	7	0	Hypothetical protein (19)	nucleic acid binding [GO:0003676 molecular_function] (10); zinc ion binding [GO:0008270 molecular_function] (10); proteolysis [GO:0006508 biological_process] (7); aspartic-type endopeptidase activity [GO:0004190 molecular_function] (7)	Zinc finger, CCHC-type [IPRO01878] (10); Peptidase A2A, retrovirus, catalytic [IPRO1995] (7); Viral movement protein [IPRO28919] (6); Aspartic peptidase domain [IPRO2109] (reverse); transcriptase domain [IPRO00477] (5); Retropepsins [IPRO18061] (1)	scaffold_1_mRNA_1502.1.scaffold_2_mRNA_324.1.scaffold_6_mRNA_441.1.scaffold_6_mRNA_530.1.scaffold_6_mRNA_635.1.scaffold_8_mRNA_1564.1.scaffold_8_mRNA_1587.1.scaffold_8_mRNA_1595.1.scaffold_8_mRNA_1635.1.scaffold_8_mRNA_1691.1.scaffold_9_mRNA_229.1.scaffold_9_mRNA_1036.1.scaffold_9_mRNA_963.1.scaffold_9_mRNA_1756.1.scaffold_9_mRNA_3222.1.scaffold_9_mRNA_4688.1.scaffold_9_mRNA_290.1.scaffold_9_mRNA_604.1.scaffold_9_mRNA_1698.1	C.unshui_00128_mRNA_34.1.C.unshui_00219_mRNA_101.1.C.unshui_00219_mRNA_101.1.C.unshui_00538_mRNA_13.1.C.unshui_00538_mRNA_13.1.C.unshui_01919_mRNA_13.1.C.unshui_01919_mRNA_13.1.C.unshui_01919_mRNA_13.1.C.unshui_01919_mRNA_13.1	
GF0000242	10	1	0	Hypothetical protein (11)			scaffold_1_mRNA_1036.1.scaffold_1_mRNA_963.1.scaffold_2_mRNA_2490.1.scaffold_3_mRNA_1756.1.scaffold_3_mRNA_3222.1.scaffold_3_mRNA_4688.1.scaffold_6_mRNA_290.1.scaffold_6_mRNA_604.1.scaffold_7_mRNA_1891.1.scaffold_9_mRNA_1698.1	C.unshui_00170_mRNA_44.1	
GF0000111	10	6	0	Hypothetical protein (16)			scaffold_4_mRNA_1603.1.scaffold_4_mRNA_1606.1.scaffold_5_mRNA_3949.1.scaffold_5_mRNA_3954.1.scaffold_6_mRNA_669.1.scaffold_7_mRNA_1910.1.scaffold_7_mRNA_1431.1.scaffold_9_mRNA_3174.1.scaffold_9_mRNA_3321.1	C.unshui_00041_mRNA_39.1.C.unshui_00298_mRNA_32.1.C.unshui_00447_mRNA_3.1.C.unshui_00582_mRNA_5.1.C.unshui_02743_mRNA_3.1	
GF0000477	8	1	0	Hypothetical protein (9)			scaffold_2_mRNA_958.1.scaffold_3_mRNA_12.1.scaffold_3_mRNA_3572.1.scaffold_5_mRNA_4934.1.scaffold_6_mRNA_170.1.scaffold_7_mRNA_2644.1.scaffold_8_mRNA_1523.1.scaffold_9_mRNA_2176.1	C.unshui_00627_mRNA_1.1	
GF0000499	7	2	0	Hypothetical protein (9)			scaffold_3_mRNA_3570.1.scaffold_4_mRNA_756.1.scaffold_5_mRNA_4367.1.scaffold_5_mRNA_486.1.scaffold_5_mRNA_4935.1.scaffold_7_mRNA_1535.1.scaffold_8_mRNA_3091.1	C.unshui_00404_mRNA_12.1.C.unshui_01313_mRNA_7.1	
GF0000387	7	3	0	Hypothetical protein (9); Monosaccharide transport protein (1)	DNA binding [GO:0003677 molecular_function] (1)	Myb-like domain [IPRO17877] (1); Homobox domain-like [IPRO09057] (1)	scaffold_5_mRNA_2779.1.scaffold_5_mRNA_2857.1.scaffold_5_mRNA_438.1.scaffold_8_mRNA_480.1.scaffold_8_mRNA_957.1.scaffold_9_mRNA_1498.1.scaffold_9_mRNA_3365.1	C.unshui_00004_mRNA_3.1.C.unshui_00271_mRNA_7.1.C.unshui_00378_mRNA_20.1	
GF0000275	6	5	0	Hypothetical protein (11)			scaffold_3_mRNA_1363.1.scaffold_3_mRNA_5073.1.scaffold_5_mRNA_1401.1.scaffold_5_mRNA_3344.1.scaffold_6_mRNA_1789.1.scaffold_9_mRNA_2959.1	C.unshui_00137_mRNA_4.1.C.unshui_00760_mRNA_4.1.C.unshui_01260_mRNA_2.1.C.unshui_01382_mRNA_2.1.C.unshui_02154_mRNA_2.1	
GF0000949	5	2	0	Retrotransposon protein, putative, Ty1-0 copia subclass (6); Cysteine-rich RLK (RECEPTOR-like protein kinase) 8 (1)	nucleic acid binding [GO:0003676 molecular_function] (5); zinc ion binding [GO:0008270 molecular_function] (4); DNA integration [GO:0015074 biological_process] (4)	Reverse transcriptase, RNA-dependent DNA polymerase [IPRO13103] (7); Ribonuclease H-like domain [IPRO1878] (6); Integrase, catalytic core [IPRO1584] (4); Zinc finger, CCHC-type [IPRO01878] (4); GAG-pre-integrase domain [IPRO25724] (3); Viral movement protein [IPRO28919] (1)	scaffold_4_mRNA_1134.1.scaffold_5_mRNA_1957.1.scaffold_6_mRNA_1003.1.scaffold_8_mRNA_1396.1.scaffold_8_mRNA_1625.1	C.unshui_00223_mRNA_5.1.C.unshui_00413_mRNA_4.1	
GF0000805	5	2	0	Monosaccharide transport protein (7)			scaffold_1_mRNA_306.1.scaffold_5_mRNA_1301.1.scaffold_5_mRNA_2602.1.scaffold_8_mRNA_472.1.scaffold_9_mRNA_3209.1	C.unshui_00233_mRNA_12.1.C.unshui_00800_mRNA_3.1	
GF0000784	5	2	0	Retrotransposon protein, putative, Ty1-0 copia subclass (6); Putative retroelement pol polyprotein (1)	nucleic acid binding [GO:0003676 molecular_function] (6); zinc ion binding [GO:0008270 molecular_function] (6); DNA integration [GO:0015074 biological_process] (3)	GAG-pre-integrase domain [IPRO25724] (6); Zinc finger, CCHC-type [IPRO1878] (6); Reverse transcriptase, RNA-dependent DNA polymerase [IPRO13103] (4); Ribonuclease H-like domain [IPRO12337] (4); Integrase, catalytic core [IPRO1584] (3)	scaffold_1_mRNA_1631.1.scaffold_4_mRNA_1135.1.scaffold_5_mRNA_3554.1.scaffold_9_mRNA_1737.1.scaffold_9_mRNA_2941.1	C.unshui_00424_mRNA_4.1.C.unshui_00434_mRNA_24.1	
GF0000326	5	5	0	Hypothetical protein (10)			scaffold_2_mRNA_172.1.scaffold_3_mRNA_2036.1.scaffold_3_mRNA_4464.1.scaffold_4_mRNA_1996.1.scaffold_5_mRNA_601.1	C.unshui_00361_mRNA_9.1.C.unshui_02358_mRNA_3.1.C.unshui_02458_mRNA_1.1	
GF0002260	4	1	0	Hypothetical protein (5)			scaffold_5_mRNA_2696.1.scaffold_6_mRNA_2058.1.scaffold_6_mRNA_2059.1	C.unshui_01636_mRNA_5.1	
GF0001952	4	1	0	Hypothetical protein (5)			scaffold_6_mRNA_319.1		
GF0001907	4	1	0	Putative retroelement pol polyprotein (4); Hydrolyase activity [GO:0016787 molecular_function] (1)			scaffold_2_mRNA_839.1.scaffold_3_mRNA_3305.1.scaffold_5_mRNA_1156.1	C.unshui_00066_mRNA_20.1	
GF0001883	4	1	0	Hypothetical protein (5)			scaffold_8_mRNA_2127.1		
GF0001765	4	1	0	Gag protease polyprotein (3); Cellular nucleic acid-binding protein (1); DNARNA polymerases superfamily protein (1)	nucleic acid binding [GO:0003676 molecular_function] (4); protein dimerization activity [GO:0046983 molecular_function] (4); DNA binding [GO:0003677 molecular_function] (4)	Pectinacetylesterase/NOTUM [IPRO04963] (1)	scaffold_2_mRNA_3057.1.scaffold_3_mRNA_3146.1.scaffold_5_mRNA_3216.1	C.unshui_00003_mRNA_1.1	
GF0001444	4	2	0	Orf764 protein (6)	DNA integration [GO:0015074 biological_process] (6); nucleic acid binding [GO:0003676 molecular_function] (6); RNA-DNA hybrid ribonuclease activity [GO:0044523 molecular_function] (4)	Ribonuclease H-like domain [IPRO12337] (6); Integrase, catalytic core [IPRO1584] (6); Ribonuclease H domain [IPRO12156] (4); Retrotransposon gag domain [IPRO6162] (1)	scaffold_4_mRNA_1666.1.scaffold_5_mRNA_1151.1.scaffold_7_mRNA_1363.1.scaffold_7_mRNA_2242.1	C.unshui_00140_mRNA_28.1.C.unshui_00716_mRNA_14.1	
GF0001186	4	2	0	Putative retroelement pol polyprotein (6)			scaffold_1_mRNA_751.1.scaffold_2_mRNA_661.1.scaffold_3_mRNA_705.1.scaffold_5_mRNA_615.1	C.unshui_00947_mRNA_4.1.C.unshui_01928_mRNA_5.1	
GF0000142	4	10	0	Hypothetical protein (14)			scaffold_2_mRNA_2854.1.scaffold_2_mRNA_2960.1.scaffold_6_mRNA_310.1.scaffold_8_mRNA_1550.1	C.unshui_00124_mRNA_19.1.C.unshui_00215_mRNA_2.1.C.unshui_00406_mRNA_9.1.C.unshui_00556_mRNA_19.1.C.unshui_00722_mRNA_10.1.C.unshui_01049_mRNA_5.1.C.unshui_01704_mRNA_1.1.C.unshui_01716_mRNA_1.1.C.unshui_02577_mRNA_3.1.C.unshui_02711_mRNA_1.1	
GF0004477	3	1	0	Eukaryotic translation initiation factor 3 subunit, putative (2); Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (4)	tetratricopeptide-like helix domain [IPRO11990] (4); Tetratricopeptide repeat [IPRO19734] (4); Tetratricopeptide repeat-containing domain [IPRO13026] (4); CLU central domain [IPRO33646] (3); Winged helix-helix DNA-binding domain [IPRO11011] (2); Ribonuclease H-like domain [IPRO12337] (4); hAT-like transposase, RNase-H fold [IPRO25525] (4); HAT, C-terminal dimerisation domain [IPRO08906] (3); Zinc finger, BED-type [IPRO13658] (3); Zinc finger C2H2-type [IPRO13087] (2)	scaffold_7_mRNA_1733.1.scaffold_7_mRNA_1742.1.scaffold_7_mRNA_1759.1	C.unshui_00766_mRNA_2.1	
GF0004380	3	1	0	BED zinc finger/hAT family dimerization domain isoform 1 (4)	nucleic acid binding [GO:0003676 molecular_function] (4); protein dimerization activity [GO:0046983 molecular_function] (4); DNA binding [GO:0003677 molecular_function] (4)	Ribonuclease H-like domain [IPRO12337] (4); hAT-like transposase, RNase-H fold [IPRO25525] (4); HAT, C-terminal dimerisation domain [IPRO08906] (3); Zinc finger, BED-type [IPRO13658] (3); Zinc finger C2H2-type [IPRO13087] (2)	scaffold_6_mRNA_388.1.scaffold_8_mRNA_2483.1.scaffold_9_mRNA_1810.1	C.unshui_00474_mRNA_21.1	
GF0003948	3	1	0	Hypothetical protein (4)			scaffold_5_mRNA_2044.1.scaffold_5_mRNA_2064.1.scaffold_6_mRNA_573.1	C.unshui_00691_mRNA_1.1	
GF0003941	3	1	0	Hypothetical protein (4)			scaffold_5_mRNA_1968.1.scaffold_5_mRNA_1971.1.scaffold_5_mRNA_583.1	C.unshui_00358_mRNA_1.1	
GF0003728	3	1	0	Hypothetical protein (4)	protein tyrosine phosphatase activity [GO:0004725 molecular_function] (2); dephosphorylation [GO:0016311 biological_process] (2); phosphatase activity [GO:0016791 molecular_function] (2)	Myotubularin-like phosphatase domain [IPRO10569] (4); Myotubularin family [IPRO30564] (4); Protein-tyrosine phosphatase-like [IPRO29011] (4); Protein-tyrosine phosphatase, active site [IPRO16130] (2)	scaffold_4_mRNA_1269.1.scaffold_4_mRNA_1276.1.scaffold_4_mRNA_1283.1	C.unshui_02303_mRNA_3.1	
GF0003724	3	1	0	Hypothetical protein (4)	nucleic acid binding [GO:0003676 molecular_function] (4); zinc ion binding [GO:0008270 molecular_function] (4); proteolysis [GO:0006508 biological_process] (3); aspartic-type endopeptidase activity [GO:0004190 molecular_function] (3)	Zinc finger, CCHC-type [IPRO01878] (4); Viral movement protein [IPRO28919] (3); Reverse transcriptase domain [IPRO00477] (3); Retropepsins [IPRO18061] (3); Aspartic peptidase, active site [IPRO01969] (3); Aspartic peptidase domain [IPRO2109] (3)	scaffold_4_mRNA_1218.1.scaffold_6_mRNA_305.1.scaffold_9_mRNA_1317.1	C.unshui_00618_mRNA_28.1	
GF0003412	3	1	0	Hypothetical protein (4)			scaffold_3_mRNA_3633.1.scaffold_4_mRNA_896.1.scaffold_8_mRNA_1143.1	C.unshui_00682_mRNA_19.1	
GF0002883	3	1	0	Hypothetical protein (4)			scaffold_1_mRNA_791.1.scaffold_6_mRNA_1581.1.scaffold_9_mRNA_2956.1	C.unshui_00924_mRNA_12.1	
GF0002882	3	1	0	Hypothetical protein (4)			scaffold_1_mRNA_786.1.scaffold_1_mRNA_792.1.scaffold_3_mRNA_882.1	C.unshui_01463_mRNA_9.1	

ID	Num. in <i>C. caryophyllata</i>	Num. in <i>C. acanthina</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. caryophyllata</i>	Members in <i>C. acanthina</i>	Members in <i>P. trifoliata</i>
GF0002863	3	1	0	Hypothetical protein (4)			scaffold_1_mRNA_551.1.scaffold_2_mRNA_2598.1.scaffold_9_mRNA_2646.1.scaffold_1_mRNA_192.1.scaffold_4_mRNA_2570.1.scaffold_4_mRNA_2572.1	C_unshu_00131_mRNA_14.1	-
GF0002740	3	1	0	Hypothetical protein (4)				C_unshu_01598_mRNA_2.1	-
GF0002733	3	1	0	Copia protein (2); Opic3 polyploid protein (1); Osi90 protein (1)	DNA integration [GO:0015074 biological_process] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	Reverse transcriptase, RNA-dependent DNA polymerase [IPRO13103] (4); Integrase, catalytic core [IPRO01584] (1); Ribonuclease H-like domain [IPRO12337] (1)	scaffold_1_mRNA_1787.1.scaffold_1_mRNA_2785.1.scaffold_5_mRNA_981.1	C_unshu_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:0003676 molecular_function] (2)	Transposase, MuDR, plant [IPRO04332] (4); MULE transposase domain [IPRO18289] (4); Zinc finger, PMZ-type [IPRO06584] (4); Zinc finger, SWIM-type [IPRO05272] (4); Zinc finger, CCHC-type [IPRO01878] (2)	scaffold_1_mRNA_1535.1.scaffold_2_mRNA_3553.1.scaffold_8_mRNA_146.1	C_unshu_00273_mRNA_31.1	-
GF0002696	3	1	0	Hypothetical protein (4)			scaffold_1_mRNA_1206.1.scaffold_2_mRNA_2279.1.scaffold_3_mRNA_1790.1	C_unshu_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); proteolysis [GO:0006508 biological_process] (4); zinc ion binding [GO:0008270 molecular_function] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	Retransposons [IPRO18061] (4); Aspartic peptidase, active site [IPRO01969] (4); Aspartic peptidase domain [IPRO01109] (3); Zinc finger, CCHC-type [IPRO01878] (1); Reverse transcriptase domain [IPRO04977] (1)	scaffold_8_mRNA_1934.1.scaffold_8_mRNA_1985.1.scaffold_9_mRNA_3760.1	C_unshu_00469_mRNA_5.1.C_unshu_02183_mRNA_2.1	-
GF0002169	3	2	0	Hypothetical protein (5)	zinc ion binding [GO:0008270 molecular_function] (4); nucleic acid binding [GO:0003676 molecular_function] (4)	Domain of unknown function DUF4283 [IPRO25585] (5); Zinc knuckle CX2CX4HX4C [IPRO25836] (5); Zinc finger, CCHC-type [IPRO01878] (4)	scaffold_4_mRNA_2241.1.scaffold_5_mRNA_2218.1.scaffold_5_mRNA_3752.1	C_unshu_00028_mRNA_13.1.C_unshu_00178_mRNA_26.1	-
GF0002138	3	2	0	Hypothetical protein (5)			scaffold_4_mRNA_1047.1.scaffold_4_mRNA_1246.1.scaffold_4_mRNA_1277.1	C_unshu_00809_mRNA_6.1.C_unshu_03085_mRNA_1.1	-
GF0002109	3	2	0	Hypothetical protein (5)			scaffold_3_mRNA_5230.1.scaffold_8_mRNA_56.1.scaffold_9_mRNA_1503.1	C_unshu_00787_mRNA_19.1.C_unshu_01396_mRNA_2.1	-
GF0001919	3	2	0	Hypothetical protein (5)	proteolysis [GO:0006508 biological_process] (5); cysteine-type peptidase activity [GO:0008234 molecular_function] (5)	Domain of unknown function DUF1985 [IPRO15410] (5); Ulp1 protease family, C-terminal catalytic domain [IPRO03653] (5)	scaffold_2_mRNA_3518.1.scaffold_3_mRNA_1454.1.scaffold_9_mRNA_3653.1	C_unshu_00026_mRNA_32.1.C_unshu_00112_mRNA_5.1	-
GF0001886	3	2	0	Hypothetical protein (5)			scaffold_2_mRNA_2433.1.scaffold_5_mRNA_2052.1.scaffold_9_mRNA_2300.1	C_unshu_00118_mRNA_12.1.C_unshu_00145_mRNA_12.1	-
GF0001838	3	2	0	Hypothetical protein (4); Disease resistance protein family (1)			scaffold_2_mRNA_1189.1.scaffold_2_mRNA_3629.1.scaffold_7_mRNA_1631.1	C_unshu_00870_mRNA_13.1.C_unshu_01092_mRNA_11.1	-
GF0001748	3	2	0	Hypothetical protein (5)			scaffold_1_mRNA_1387.1.scaffold_1_mRNA_1412.1.scaffold_1_mRNA_1459.1	C_unshu_00158_mRNA_9.1.C_unshu_00470_mRNA_27.1	-
GF0001615	3	3	0	Disease resistance protein (3); Disease resistance protein RPS2 (1); LRR and NB-ARC domain-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 [IPRO22675] (1); Viral movement protein [IPRO28919] (1); Leucine-rich repeat domain, L domain-like [IPRO23675] (6); Leucine-rich repeat [IPRO1611] (6); NB-ARC [IPRO02182] (5); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (5); Winged helix-turn-helix DNA-binding domain [IPRO11991] (1); Leucine-rich repeat, typical subtype [IPRO03591] (1); AAA+ ATPase domain [IPRO03593] (1)	scaffold_7_mRNA_1896.1.scaffold_7_mRNA_1971.1.scaffold_7_mRNA_1976.1	C_unshu_00050_mRNA_1.1.C_unshu_00245_mRNA_10.1.C_unshu_01710_mRNA_4.1	-
GF0001514	3	3	0	Disease resistance protein (3); Disease resistance protein (CC-NBS-LRR class) family protein (1); Putative disease resistance gene NBS-LRR family protein (1); Putative disease resistance protein (1)	ADP binding [GO:0043531 molecular_function] (6)	NB-ARC [IPRO02182] (6); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (6); Leucine-rich repeat domain, L domain-like [IPRO23675] (3); Winged helix-turn-helix DNA-binding domain [IPRO11991] (2); AAA+ ATPase domain [IPRO03593] (2)	scaffold_5_mRNA_2639.1.scaffold_5_mRNA_2653.1	C_unshu_00906_mRNA_7.1.C_unshu_01119_mRNA_1.1.C_unshu_01443_mRNA_1.1	-
GF0001482	3	3	0	Hypothetical protein (6)			scaffold_5_mRNA_1098.1.scaffold_8_mRNA_1428.1.scaffold_9_mRNA_3758.1	C_unshu_00033_mRNA_38.1.C_unshu_00582_mRNA_6.1.C_unshu_00825_mRNA_4.1	-
GF0001298	3	3	0	Monosaccharide transport protein (6)			scaffold_3_mRNA_1011.1.scaffold_8_mRNA_293.1.scaffold_9_mRNA_2930.1	C_unshu_00068_mRNA_31.1.C_unshu_01467_mRNA_3.1.C_unshu_02089_mRNA_8.1	-
GF0001250	3	3	0	Hypothetical protein (6)			scaffold_2_mRNA_319.1.scaffold_9_mRNA_2268.1.scaffold_9_mRNA_2368.1	C_unshu_00529_mRNA_21.1.C_unshu_01568_mRNA_01730_mRNA_5.1	-
GF0001159	3	3	0	Hypothetical protein (6)			scaffold_1_mRNA_2556.1.scaffold_3_mRNA_1508.1.scaffold_4_mRNA_2110.1	C_unshu_00017_mRNA_29.1.C_unshu_00224_mRNA_14.1.C_unshu_02217_mRNA_4.1	-
GF0000616	3	5	0	Hypothetical protein (8)			scaffold_2_mRNA_2287.1.scaffold_5_mRNA_2471.1.scaffold_6_mRNA_195.1	C_unshu_00138_mRNA_65.1.C_unshu_00377_mRNA_2.1.C_unshu_00892_mRNA_17.1.C_unshu_00871_mRNA_5.1	-
GF00018573	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:0055114 biological_process] (1)	Non-haem dioxygenase N-terminal domain [IPRO05092] (2); Isopenicillin N synthase-like [IPRO27443] (2); Reverse transcriptase domain [IPRO04077] (2); Ribonuclease H-like domain [IPRO12337] (2); Oxyglutamate iron-dependent dioxygenase [IPRO05123] (1)	scaffold_9_mRNA_3284.1.scaffold_9_mRNA_3285.1	C_unshu_00741_mRNA_2.1	-
GF00018556	2	1	0	LRR receptor-like kinase family protein 0 (2); CN3A clone J023022C01, full insert sequence (1)	protein phosphorylation [GO:0006468 biological_process] (3); protein kinase activity [GO:0004472 molecular_function] (3); ATP binding [GO:0005524 molecular_function] (3); protein binding [GO:0005515 molecular_function] (2)	Protein kinase, ATP binding site [IPRO17441] (3); Tyrosine-protein kinase, active site [IPRO00266] (3); Protein kinase-like domain [IPRO11009] (3); Leucine-rich repeat domain, L domain-like [IPRO23675] (3); Protein kinase domain [IPRO00191] (3); Leucine-rich repeat [IPRO01611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPRO13210] (2); Leucine-rich repeat, typical subtype [IPRO03591] (2); Concanavalin A-like lectin/glucanase domain [IPRO13320] (1)	scaffold_9_mRNA_3252.1.scaffold_9_mRNA_3253.1	C_unshu_00095_mRNA_16.1	-
GF00018304	2	1	0	Hypothetical protein (3)			scaffold_9_mRNA_2488.1.scaffold_9_mRNA_2496.1	C_unshu_00104_mRNA_34.1	-
GF00018277	2	1	0	Putative polyprotein (Aspartic protease, reverse transcriptase, ribonuclease H) (2); Hypothetical protein (1)			scaffold_9_mRNA_2383.1.scaffold_9_mRNA_2384.1	C_unshu_00763_mRNA_20.1	-
GF00018065	2	1	0	Hypothetical protein (3)			scaffold_9_mRNA_1578.1.scaffold_9_mRNA_2138.1	C_unshu_01433_mRNA_9.1	-
GF00017943	2	1	0	2-oxoglutarate (2OG) and Fe(II)-dependent oxygenase superfamily protein, putative (3)			scaffold_9_mRNA_1112.1.scaffold_9_mRNA_1134.1	C_unshu_00334_mRNA_12.1	-
GF00017165	2	1	0	Germin-like protein subfamily 2 member 0 (2); Hypothetical protein (1)	manganese ion binding [GO:00030145 molecular_function] (3); nutrient reservoir activity [GO:0045735 molecular_function] (3)	RanG-like cupin domain [IPRO11051] (3); Cupin 1 [IPRO06045] (3); RanG-like jelly roll fold [IPRO14710] (3); Germin [IPRO01929] (3)	scaffold_8_mRNA_2458.1.scaffold_8_mRNA_2461.1	C_unshu_00814_mRNA_15.1	-
GF00016545	2	1	0	Hypothetical protein (3)			scaffold_7_mRNA_567.1.scaffold_8_mRNA_2690.1	C_unshu_00858_mRNA_4.1	-
GF00016296	2	1	0	Disease resistance protein (3)	ADP binding [GO:0043531 molecular_function] (3)	Domain of unknown function DUF4283 [IPRO25585] (3); Leucine-rich repeat domain, L domain-like [IPRO23675] (3); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (3); NB-ARC [IPRO02182] (3); Winged helix-turn-helix DNA-binding domain [IPRO11991] (2); Pentatricopeptide repeat [IPRO02885] (1)	scaffold_7_mRNA_2616.1.scaffold_7_mRNA_2621.1	C_unshu_01041_mRNA_2.1	-
GF00015996	2	1	0	Hypothetical protein (3)			scaffold_7_mRNA_1752.1.scaffold_7_mRNA_1757.1	C_unshu_00055_mRNA_49.1	-
GF00015676	2	1	0	Putative non-LTR reverse transcriptase (1); Putative non-LTR retroelement 0 reverse transcriptase (3); Putative non-LTR retroelement reverse transcriptase (1)	nucleic acid binding [GO:0003676 molecular_function] (3)	HSP20-like chaperone [IPRO08978] (3); Alpha crystallin/Hsp20 domain [IPRO02068] (3); Small heat shock protein HSP20 [IPRO03107] (2)	scaffold_6_mRNA_91.1.scaffold_8_mRNA_1231.1	C_unshu_00329_mRNA_14.1	-
GF00015624	2	1	0	Hypothetical protein (3)			scaffold_6_mRNA_654.1.scaffold_9_mRNA_458.1	C_unshu_00648_mRNA_17.1	-
GF00015590	2	1	0	Hypothetical protein (3)			scaffold_6_mRNA_360.1.scaffold_8_mRNA_1379.1	C_unshu_00060_mRNA_66.1	-
GF00015578	2	1	0	Hypothetical protein (3)			scaffold_6_mRNA_3186.1.scaffold_7_mRNA_2.1	C_unshu_00051_mRNA_12.1	-
GF00015344	2	1	0	TCP transcription factor CYC1C (1); Hypothetical protein (1); Transcription factor CYC1 (1)			scaffold_6_mRNA_2849.1.scaffold_9_mRNA_2986.1	C_unshu_00098_mRNA_25.1	-
GF00014704	2	1	0	Hypothetical protein (3)	zinc ion binding [GO:0008270 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Zinc finger, CCHC-type [IPRO01878] (2)	scaffold_6_mRNA_193.1.scaffold_6_mRNA_429.1	C_unshu_00145_mRNA_35.1	-
GF00014655	2	1	0	Hypothetical protein (3)			scaffold_6_mRNA_1834.1.scaffold_8_mRNA_2504.1	C_unshu_00020_mRNA_59.1	-
GF00014605	2	1	0	Hypothetical protein (3)			scaffold_6_mRNA_171.1.scaffold_7_mRNA_1092.1	C_unshu_00053_mRNA_11.1	-
GF00014380	2	1	0	Hypothetical protein (3)	cysteine-type peptidase activity [GO:0008234 molecular_function] (3); proteolysis [GO:0006508 biological_process] (3)	Domain of unknown function DUF1985 [IPRO15410] (3); Ulp1 protease family, C-terminal catalytic domain [IPRO03653] (3)	scaffold_6_mRNA_1098.1.scaffold_9_mRNA_2090.1	C_unshu_00781_mRNA_14.1	-

ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF0013772	2	1	0	Hypothetical protein (2); Putative disease resistance protein RGA1 (1)	oxidation-reduction process [GO:0055114 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 [IPRO032675] (3); P-loop containing nucleoside triphosphate hydrolase [IPRO027417] (2); GPN-loop GTPase [IPRO04130] (2); GPN-loop GTPase 2 [IPRO03251] (2)	scaffold_5_mRNA_445.1,scaffold_5_mRNA_461.1	C_unshiu_01064_mRNA_8.1	-
GF0013233	2	1	0	Hypothetical protein (3)	protein binding [GO:0005515 molecular_function] (3)	Amine oxidase [IPRO02937] (3); Zeta-carotene desaturase [IPRO14105] (2); FAD/NAD(P)-binding domain [IPRO023753] (1)	scaffold_5_mRNA_3320.1,scaffold_5_mRNA_3350.1	C_unshiu_00021_mRNA_1.1	-
GF0013184	2	1	0	Disease resistance family protein / LRR family protein, putative (1); LRR receptor-like serine/threonine-protein kinase GSO1 (1); LRR receptor-like serine/threonine-protein kinase GS02 (1)	protein binding [GO:0005515 molecular_function] (3)	Leucine-rich repeat domain, L domain-like [IPRO032675] (3); Leucine-rich repeat, typical subtype [IPRO03591] (3); Leucine-rich repeat [IPRO01611] (3); Leucine-rich repeat-containing N-terminal, plant-type [IPRO13210] (2)	scaffold_5_mRNA_3146.1,scaffold_5_mRNA_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 molecular_function] (2); transposition, DNA-mediated [GO:0006513 biological_process] (2); DNA binding [GO:0003677 molecular_function] (2)	Transposase, MuDR, plant [IPRO04332] (3); Zinc finger, PIMZ-type [IPRO06564] (3); MULE transposase domain [IPRO18289] (3); Zinc finger, SWIM-type [IPRO07527] (3); Transposase, mutator type [IPRO01207] (2)	scaffold_5_mRNA_2479.1,scaffold_6_mRNA_585.1	C_unshiu_01124_mRNA_7.1	-
GF0013019	2	1	0	MuDR family transposase isoform 1 (2); Putative muDR family transposase-like (1)	zinc ion binding [GO:0008270 molecular_function] (3); transposase activity [GO:0004803 molecular_function] (2); transposition, DNA-mediated [GO:0006513 biological_process] (2); DNA binding [GO:0003677 molecular_function] (2)	Transposase, MuDR, plant [IPRO04332] (3); Zinc finger, PIMZ-type [IPRO06564] (3); MULE transposase domain [IPRO18289] (3); Zinc finger, SWIM-type [IPRO07527] (3); Transposase, mutator type [IPRO01207] (2)	scaffold_5_mRNA_2368.1,scaffold_5_mRNA_2656.1	C_unshiu_01916_mRNA_3.1	-
GF0012975	2	1	0	Hypothetical protein (3)	chromatin binding [GO:0003682 molecular_function] (3); methyltransferase activity [GO:0008168 molecular_function] (1)	3-adenosyl-4-methionine-dependent methyltransferase [IPRO029663] (3); DNA (cytosine-5)-methyltransferase 1, replication fork domain [IPRO02702] (3); Bromo adjacent homology (BAH) domain [IPRO01025] (3); DNA methylase, C-5 cytosine-specific, conserved site [IPRO1303] (2); C-5 cytosine methyltransferase [IPRO01525] (1)	scaffold_5_mRNA_218.1,scaffold_5_mRNA_226.1	C_unshiu_00904_mRNA_5.1	-
GF0012863	2	1	0	SLG-Sc and SLA-Sc genes and Melnoh retrotransposon sequence (3)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPRO12337] (1)	scaffold_5_mRNA_170.1,scaffold_5_mRNA_982.1	C_unshiu_00083_mRNA_35.1	-
GF0012828	2	1	0	Hypothetical protein (3)	Reverse transcriptase, RNA-dependent DNA polymerase [IPRO1303] (2)	Reverse transcriptase, RNA-dependent DNA polymerase [IPRO1303] (2)	scaffold_5_mRNA_1436.1,scaffold_8_mRNA_1637.1	C_unshiu_02887_mRNA_2.1	-
GF0012770	2	1	0	Putative disease resistance RGA1 (1); TIR-NBS-LRR type disease resistance protein (1); Disease resistance protein RGA4 (1)	ADP binding [GO:0043531 molecular_function] (3)	Leucine-rich repeat domain, L domain-like [IPRO032675] (3); P-loop containing nucleoside triphosphate hydrolase [IPRO027417] (3); NB-ARC [IPRO02182] (3)	scaffold_5_mRNA_1173.1,scaffold_5_mRNA_1174.1	C_unshiu_01250_mRNA_2.1	-
GF0012769	2	1	0	Solute carrier family 25 member 44 (2); Hypothetical protein (1)	O-methyltransferase activity [GO:0008171 molecular_function] (3); methyltransferase activity [GO:0008168 molecular_function] (3)	Mitochondrial carrier domain [IPRO02358] (3); Mitochondrial substrate/solute carrier [IPRO10108] (3); Winged helix-helix DNA-binding domain [IPRO1199] (1); O-methyltransferase, family 2 [IPRO01077] (3); O-methyltransferase COMT-type [IPRO1646] (3); S-adenosyl-L-methionine-dependent methyltransferase [IPRO029663] (3)	scaffold_5_mRNA_1170.1,scaffold_5_mRNA_1706.1	C_unshiu_01766_mRNA_4.1	-
GF0012630	2	1	0	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)	methyltransferase, family 2 [IPRO01077] (3); O-methyltransferase COMT-type [IPRO1646] (3); S-adenosyl-L-methionine-dependent methyltransferase [IPRO029663] (3)	scaffold_4_mRNA_786.1,scaffold_5_mRNA_2803.1	C_unshiu_00980_mRNA_9.1	-
GF0012628	2	1	0	Hypothetical protein (3)			scaffold_4_mRNA_775.1,scaffold_6_mRNA_940.1	C_unshiu_00407_mRNA_20.1	-
GF0012598	2	1	0	Hypothetical protein (3)			scaffold_4_mRNA_625.1,scaffold_4_mRNA_797.1	C_unshiu_00607_mRNA_7.1	-
GF0012597	2	1	0	Hypothetical protein (3)			scaffold_4_mRNA_624.1,scaffold_4_mRNA_796.1	C_unshiu_00607_mRNA_9.1	-
GF0011727	2	1	0	Hypothetical protein (3)	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 DUF4283 [IPRO01878] (3); Zinc knuckle CX2CX4HXAC [IPRO25836] (3); Ribonuclease H-like domain [IPRO12337] (1); Ribonuclease H domain [IPRO02136] (1)	scaffold_4_mRNA_2432.1,scaffold_8_mRNA_3525.1	C_unshiu_00011_mRNA_23.1	-
GF0011508	2	1	0	Hypothetical protein (3)	drug transmembrane transport [GO:0006855 biological_process] (3); membrane [GO:0016020 cellular_component] (3); antiporter activity [GO:0015297 molecular_function] (3); drug transmembrane transporter activity [GO:0015238 molecular_function] (3); transmembrane transport [GO:0055085 biological_process] (3)	Multi antimicrobial extrusion protein [IPRO02528] (3)	scaffold_4_mRNA_2051.1,scaffold_4_mRNA_2062.1	C_unshiu_00700_mRNA_5.1	-
GF0011505	2	1	0	MATE efflux family protein, expressed (2); Protein TRANSPARENT TESTA 12-like protein (1)	drug transmembrane transport [GO:0006855 biological_process] (3); membrane [GO:0016020 cellular_component] (3); antiporter activity [GO:0015297 molecular_function] (3); drug transmembrane transporter activity [GO:0015238 molecular_function] (3); transmembrane transport [GO:0055085 biological_process] (3)	Multi antimicrobial extrusion protein [IPRO02528] (3)	scaffold_4_mRNA_2051.1,scaffold_4_mRNA_2062.1	C_unshiu_00700_mRNA_5.1	-
GF0010919	2	1	0	Putative non-LTR retroelement reverse transcriptase (2); RNA-directed DNA O polymerase (Reverse transcriptase); Polynucleotidyl transferase; Ribonuclease H fold-like protein (1)	nucleic acid binding [GO:0003676 molecular_function] (3); zinc ion binding [GO:0008270 molecular_function] (1)	Ribonuclease H-like domain [IPRO12337] (3); Reverse transcriptase zinc-binding domain [IPRO02690] (3); Reverse transcriptase domain [IPRO00477] (2); Domain of unknown function DUF4283 [IPRO25588] (1); Zinc finger, CCHC-type [IPRO01878] (1); Zinc knuckle CX2CX4HXAC [IPRO25836] (1)	scaffold_3_mRNA_74.1,scaffold_8_mRNA_1800.1	C_unshiu_01050_mRNA_1.1	-
GF0010055	2	1	0	Hypothetical protein (3)	cysteine-type peptidase activity [GO:0008234 molecular_function] (3); proteolysis [GO:0006508 biological_process] (3)	Upl1 protease family, C-terminal catalytic domain [IPRO03653] (3)	scaffold_3_mRNA_5152.1,scaffold_8_mRNA_779.1	C_unshiu_00016_mRNA_54.1	-
GF0009624	2	1	0	Hypothetical protein (3)			scaffold_3_mRNA_4218.1,scaffold_3_mRNA_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 [IPRO032675] (3); Leucine-rich repeat [IPRO01611] (2)	scaffold_3_mRNA_3779.1,scaffold_3_mRNA_3794.1	C_unshiu_00188_mRNA_19.1	-
GF0009483	2	1	0	Secologanin synthase (2); Putative O cytochrome P450 monooxygenase CYP2A5 (1)	oxidation-reduction process [GO:0055114 biological_process] (3); oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] (3); zinc ion binding [GO:0008270 molecular_function] (3); heme binding [GO:0020037 molecular_function] (3)	Cytochrome P450 [IPRO01128] (3); Cytochrome P450, F-class, group I [IPRO02401] (3); Cytochrome P450, conserved site [IPRO17972] (2)	scaffold_3_mRNA_3640.1,scaffold_3_mRNA_3641.1	C_unshiu_01261_mRNA_7.1	-
GF0009446	2	1	0	Hypothetical protein (2); Putative Ty-1 copia retrotransposon (1)	DNA integration [GO:0015074 biological_process] (3); nucleic acid binding [GO:0003676 molecular_function] (3)	Ribonuclease H-like domain [IPRO12337] (3); Integrase, catalytic core [IPRO01584] (3); GAG-pre-integrase domain [IPRO02574] (2); Reverse transcriptase, RNA-dependent DNA polymerase [IPRO13103] (1)	scaffold_3_mRNA_3484.1,scaffold_9_mRNA_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); regulation of transcription, DNA-templated [GO:0006355 biological_process] (3); nucleic acid binding [GO:0003676 molecular_function] (2)	Aspartic peptidase domain [IPRO02109] (3); FYF1/FAR1 family [IPRO1052] (3); MULE transposase domain [IPRO18289] (3); Zinc finger, SWIM-type [IPRO07527] (3); FAR1 DNA binding domain [IPRO0430] (2); Zinc finger, CCHC-type [IPRO01878] (2)	scaffold_3_mRNA_3354.1,scaffold_8_mRNA_866.1	C_unshiu_01045_mRNA_10.1	-
GF0009400	2	1	0	Protein FAR1-RELATED SEQUENCE 8 (2); Protein FAR1-RELATED SEQUENCE 9 (1)	nucleic acid binding [GO:0003676 molecular_function] (3); zinc ion binding [GO:0008270 molecular_function] (3)	MULE transposase domain [IPRO18289] (3); Zinc finger, SWIM-type [IPRO07527] (3); FAR1 DNA binding domain [IPRO0430] (2); Zinc finger, CCHC-type [IPRO01878] (2)	scaffold_3_mRNA_3289.1,scaffold_6_mRNA_789.1	C_unshiu_00120_mRNA_8.1	-
GF0009265	2	1	0	Hypothetical protein (3)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPRO12337] (3); Retrotransposon gag domain [IPRO0162] (1)	scaffold_3_mRNA_2694.1,scaffold_9_mRNA_1410.1	C_unshiu_00423_mRNA_2.1	-
GF0009264	2	1	0	Hypothetical protein (3)			scaffold_3_mRNA_2691.1,scaffold_3_mRNA_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 [IPRO12337] (3); hAT-like transposase, RNase-H fold [IPRO02525] (3)	scaffold_3_mRNA_2488.1,scaffold_5_mRNA_1866.1	C_unshiu_00242_mRNA_15.1	-
GF0009195	2	1	0	Hypothetical protein (3)			scaffold_3_mRNA_2478.1,scaffold_4_mRNA_917.1	C_unshiu_00013_mRNA_37.1	-
GF0009188	2	1	0	Hypothetical protein (3)			scaffold_3_mRNA_2439.1,scaffold_7_mRNA_1159.1	C_unshiu_01265_mRNA_13.1	-
GF0009180	2	1	0	Hypothetical protein (2); Upl1 protease O family, carboxy-terminal domain protein (1)	cysteine-type peptidase activity [GO:0008234 molecular_function] (3); proteolysis [GO:0006508 biological_process] (3)	Upl1 protease family, C-terminal catalytic domain [IPRO03653] (3)	scaffold_3_mRNA_2404.1,scaffold_8_mRNA_1860.1	C_unshiu_00413_mRNA_5.1	-
GF0009158	2	1	0	Hypothetical protein (3)			scaffold_3_mRNA_2326.1,scaffold_3_mRNA_2349.1	C_unshiu_00625_mRNA_9.1	-
GF0009117	2	1	0	Hypothetical protein (3)			scaffold_3_mRNA_2217.1,scaffold_3_mRNA_3407.1	C_unshiu_01549_mRNA_4.1	-
GF0009052	2	1	0	Hypothetical protein (3)			scaffold_3_mRNA_1879.1,scaffold_3_mRNA_1896.1	C_unshiu_01678_mRNA_9.1	-
GF0008956	2	1	0	Hypothetical protein (3)			scaffold_3_mRNA_1523.1,scaffold_5_mRNA_1158.1	C_unshiu_00101_mRNA_47.1	-

ID	Num. in <i>C. caryotactis</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliate</i>	Note	GO	InterPro	Members in <i>C. caryotactis</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliate</i>
GF0008931	2	1	0	Putative endR family transposase-like (2); AlpA (1)	zinc ion binding [GO:0008270 molecular_function] (3); nucleic acid binding [GO:0003676 molecular_function] (3); transposition, DNA-mediated [GO:0006513 biological_process] (2); transposase activity [GO:0004803 molecular_function] (2); DNA binding [GO:0003677 molecular_function] (2)	Zinc finger, CCHC-type [IPRO01878] (3); Zinc finger, PML-type [IPRO06564] (3); Zinc finger, SWIM-type [IPRO07527] (3); Transposase, mutator type [IPRO01207] (2); MULE transposase domain [IPRO18289] (2)	scaffold_3_mRNA_1439.1,scaffold_6_mRNA_1954.1	C_unshiu_00259_mRNA_39.1	-
GF0008733	2	1	0	Hypothetical protein (2); UDP-glycosyltransferase 83A1 (1)	metabolic process [GO:0008152 biological_process] (3); transferase activity, transferring hexosyl groups [GO:016758 molecular_function] (3)	UDP-glucuronosylUDP-glycosyltransferase [IPRO02213] (3)	scaffold_3_mRNA_1039.1,scaffold_3_mRNA_1065.1	C_unshiu_00030_mRNA_76.1	-
GF0008535	2	1	0	Retrotransposon protein, putative, Ty3-gypsy subclass (1); DNA/RNA polymerase superfamily protein (1); Hypothetical protein (1)	proteolysis [GO:0006508 biological_process] (3); aspartic-type endopeptidase activity [GO:0004190 molecular_function] (3)	Aspartic peptidase, active site [IPRO01969] (3); Aspartic peptidase domain [IPRO21109] (3); Retrotransposon gag domain [IPRO05162] (3)	scaffold_2_mRNA_558.1,scaffold_7_mRNA_1250.1	C_unshiu_00646_mRNA_16.1	-
GF0008407	2	1	0	Hypothetical protein (3)			scaffold_2_mRNA_4605.1,scaffold_8_mRNA_2654.1	C_unshiu_00337_mRNA_15.1	-
GF0008271	2	1	0	Hypothetical protein (3)		P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (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); aspartic-type endopeptidase activity [GO:0004190 molecular_function] (1); proteolysis [GO:0006508 biological_process] (1)	Zinc finger, CCHC-type [IPRO01878] (3); Viral movement protein [IPRO28919] (2); Aspartic peptidase domain [IPRO21109] (1); Aspartic peptidase, active site [IPRO01969] (1); Retropepsin [IPRO18061] (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_1959.1	C_unshiu_00089_mRNA_37.1	-
GF0007476	2	1	0	Putative non-LTR retroelement reverse transcriptase (3); RNA-directed DNA polymerase; Ribonuclease H, putative (1)	nucleic acid binding [GO:0003676 molecular_function] (1)	Endonuclease/exonuclease/phosphatase [IPRO05155] (3); Reverse transcriptase zinc-binding domain [IPRO26960] (2); Reverse transcriptase domain [IPRO04477] (2); Ribonuclease H-like domain [IPRO12337] (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 molecular_function] (2)	GroEL-like apical domain [IPRO27409] (3); Chaperonin Cpn60/TCP-1 family [IPRO02423] (2); TCP-1-like chaperonin intermediate domain [IPRO27410] (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:0006364 biological_process] (3); nucleosome-containing compound metabolic process [GO:0006139 biological_process] (3); nucleic acid binding [GO:0003676 molecular_function] (3)	Ribonuclease H-like domain [IPRO12337] (3); Putative pre-16S rRNA cleavage [IPRO05272] (3); YggF/RNase H-like domain [IPRO06641] (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_00644_mRNA_5.1	-
GF0006671	2	1	0	Hypothetical protein (2); Putative Ty3-gypsy-like retroelement pol polyprotein (1)	nucleic acid binding [GO:0003676 molecular_function] (3)	Ribonuclease H-like domain [IPRO12337] (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 [IPRO17930] (3); SANT/Myb domain [IPRO1005] (3); Homeobox domain-like [IPRO09057] (2); RNA, 737.1	scaffold_1_mRNA_3085.1,scaffold_3_mRNA_737.1	C_unshiu_00442_mRNA_24.1	-
GF0005648	2	1	0	Hypothetical protein (3)			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_451.1	C_unshiu_01237_mRNA_10.1	-
GF0005508	2	1	0	Hypothetical protein (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_525.1	C_unshiu_00644_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 HARBI1 (2); Hypothetical protein (1)	carbohydrate metabolic process [GO:0009795 biological_process] (2); hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular_function] (2)	Harbinger transposase-derived nuclease domain [IPRO27806] (3); Glycoside hydrolase family 17 [IPRO00490] (2); Glycoside hydrolase superfamily [IPRO17853] (2); Myb/SANT-like domain [IPRO4752] (1); Glycoside hydrolase, catalytic domain [IPRO13781] (1)	scaffold_1_mRNA_1334.1,scaffold_3_mRNA_6170.1	C_unshiu_01540_mRNA_2.1	-
GF0005249	2	1	0	Hypothetical protein (3)			scaffold_1_mRNA_1170.1,scaffold_6_mRNA_290.1	C_unshiu_00385_mRNA_5.1	-
GF0004997	2	2	0	Glycan endo-1,3-beta-glucosidase, basic isoform (4)	hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular_function] (4); carbohydrate metabolic process [GO:0009795 biological_process] (4)	Glycoside hydrolase family 17 [IPRO00490] (4); Glycoside hydrolase superfamily [IPRO17853] (4); Glycoside hydrolase, catalytic domain [IPRO13781] (2)	scaffold_9_mRNA_2586.1,scaffold_9_mRNA_2472.1	C_unshiu_00046_mRNA_10.1,C_unshiu_00046_mRNA_7.1	-
GF0004968	2	2	0	Hypothetical protein (4)			scaffold_9_mRNA_197.1,scaffold_9_mRNA_2713.1	C_unshiu_00355_mRNA_10.1,C_unshiu_01190_mRNA_3.1	-
GF0004873	2	2	0	Hypothetical protein (4)			scaffold_8_mRNA_583.1,scaffold_9_mRNA_3186.1	C_unshiu_00599_mRNA_9.1,C_unshiu_01091_mRNA_3.1	-
GF0004739	2	2	0	Hypothetical protein (4)			scaffold_8_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)	cysteine-type peptidase activity [GO:0005234 molecular_function] (4); proteolysis [GO:0006508 biological_process] (4)	Ulp1 protease family, C-terminal catalytic domain [IPRO03653] (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-lyase activity [GO:0010831 molecular_function] (4); pyridoxal phosphate binding [GO:0030170 molecular_function] (4); catalytic activity [GO:0003824 molecular_function] (4); cellular amino acid metabolic process [GO:0006520 biological_process] (4)	Pyridoxal phosphate-dependent transferase, major region, subdomain 1 [IPRO15421] (4); Pyridoxal phosphate-dependent decarboxylase [IPRO02129] (4); Pyridoxal phosphate binding site [IPRO21115] (4); Pyridoxal phosphate-dependent transferase [IPRO15424] (4); Aromatic L-amino acid decarboxylase [IPRO10977] (4); Pyridoxal phosphate-dependent transferase, subdomain 2 [IPRO15422] (2); Pyridoxal phosphate-dependent transferase, major region, subdomain 2 [IPRO15421] (2)	scaffold_7_mRNA_2706.1,scaffold_7_mRNA_2711.1	C_unshiu_01382_mRNA_3.1,C_unshiu_01382_mRNA_9.1	-
GF0004474	2	2	0	Hypothetical protein (4)			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)	proteolysis [GO:0006508 biological_process] (2); aspartic-type endopeptidase activity [GO:0004190 molecular_function] (2)	Aspartic peptidase domain [IPRO21109] (4); Aspartic peptidase, active site [IPRO01969] (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)			scaffold_5_mRNA_907.1,scaffold_5_mRNA_910.1	C_unshiu_00292_mRNA_17.1,C_unshiu_00292_mRNA_20.1	-
GF0004238	2	2	0	Phloem protein 2-4B5 (4)	protein binding [GO:0005515 molecular_function] (2); cell wall [GO:0005618 cellular_component] (4); cell wall modification [GO:0042545 biological_process] (4); pectinesterase activity [GO:0003059 molecular_function] (4)	Phloem protein 2-like [IPRO25886] (4); F-box domain [IPRO01810] (2)	scaffold_5_mRNA_895.1,scaffold_5_mRNA_903.1	C_unshiu_00292_mRNA_14.1,C_unshiu_00292_mRNA_7.1	-
GF0004204	2	2	0	Putative pectinesterase/pectinesterase inhibitor 38 (2); Pectinesterase 2 (2)	cellular component (4); cell wall modification [GO:0042545 biological_process] (4); pectinesterase activity [GO:0003059 molecular_function] (4)	Pectinesterase, Asp active site [IPRO33131] (4); Pectinesterase, catalytic [IPRO0070] (4); Pectin lyase fold [IPRO12334] (4); Pectin lyase fold/virulence factor [IPRO11050] (4)	scaffold_5_mRNA_521.1,scaffold_5_mRNA_526.1	C_unshiu_00561_mRNA_11.1,C_unshiu_00710_mRNA_14.1	-
GF0004099	2	2	0	Putative non-LTR retroelement reverse transcriptase (3); RNA-directed DNA polymerase (Reverse transcriptase); Polynucleotidyl transferase; Ribonuclease H fold-like protein (1)	nucleic acid binding [GO:0003676 molecular_function] (4)	Ribonuclease H-like domain [IPRO12337] (4); Reverse transcriptase zinc-binding domain [IPRO26960] (4); Reverse transcriptase domain [IPRO04477] (3)	scaffold_5_mRNA_4157.1,scaffold_9_mRNA_451.1	C_unshiu_00053_mRNA_69.1,C_unshiu_00174_mRNA_11.1	-
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:0005634 cellular_component] (1); DNA repair [GO:0006281 biological_process] (1); endonuclease activity [GO:0004519 molecular_function] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	Zinc finger, CCHC-type [IPRO01878] (1); E3 ubiquitin-protein ligase family [IPRO04579] (1); Restriction endonuclease type II-like [IPRO11335] (1)	scaffold_5_mRNA_3671.1,scaffold_7_mRNA_1856.1	C_unshiu_00060_mRNA_78.1,C_unshiu_01813_mRNA_1.1	-
GF0004017	2	2	0	Putative non-LTR retroelement reverse transcriptase (3); Putative RNA-directed DNA polymerase (1)	nucleic acid binding [GO:0003676 molecular_function] (3); zinc ion binding [GO:0008270 molecular_function] (1)	Reverse transcriptase zinc-binding domain [IPRO26960] (4); Reverse transcriptase domain [IPRO04477] (4); Ribonuclease H-like domain [IPRO12337] (3); Endonuclease/exonuclease/phosphatase [IPRO05155] (3); Zinc knuckle CX2CXHXHX [IPRO25836] (1); Zinc finger, CCHC-type [IPRO01878] (1)	scaffold_5_mRNA_3259.1,scaffold_5_mRNA_3754.1	C_unshiu_00028_mRNA_14.1,C_unshiu_00161_mRNA_16.1	-

ID	Num. in <i>C. caryophyllata</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. caryophyllata</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF000396	2	2	0	Hypothetical protein (4)	response to auxin [GO:000733 biological_process] (1)	Small auxin-uric RNA [IPRO03676] (1)	scaffold_5_mRNA_1946.1.scaffold_8_mRNA_1070.1	C. unshiu_01302_mRNA_3.1.C. unshiu_01849_mRNA_3.1	
GF0003902	2	2	0	Hypothetical protein (4)		Viral movement protein [IPRO28919] (1)	scaffold_5_mRNA_1638.1.scaffold_5_mRNA_2041.1	C. unshiu_00128_mRNA_4.1.C. unshiu_00531_mRNA_3.1	
GF0003880	2	2	0	Hypothetical protein (4)			scaffold_5_mRNA_1402.1.scaffold_9_mRNA_2527.1	C. unshiu_00101_mRNA_48.1.C. unshiu_00484_mRNA_5.1	
GF0003851	2	2	0	Hypothetical protein (4)			scaffold_4_mRNA_837.1.scaffold_5_mRNA_1144.1	C. unshiu_00258_mRNA_6.1	
GF0003836	2	2	0	Hypothetical protein (4)			scaffold_4_mRNA_614.1.scaffold_4_mRNA_2991.1	C. unshiu_01014_mRNA_3.1.C. unshiu_01202_mRNA_1.1	
GF0003835	2	2	0	cDNA clone002-110-H12, full insert sequence (4)	nucleic acid binding [GO:0003676 molecular_function] (4)	Ribonuclease H-like domain [IPRO12337] (4)	scaffold_4_mRNA_605.1.scaffold_4_mRNA_630.1	C. unshiu_00794_mRNA_5.1.C. unshiu_01014_mRNA_13.1	
GF0003832	2	2	0	Hypothetical protein (4)	cysteine-type peptidase activity [GO:000234 molecular_function] (4); proteolysis [GO:0006508 biological_process] (4)	Alpha/Beta hydrolase fold [IPRO29058] (1); Ubiquitin-like domain [IPRO13653] (4); Domain of unknown function DUF1985 [IPRO15410] (4)	scaffold_4_mRNA_536.1.scaffold_7_mRNA_1689.1	C. unshiu_00236_mRNA_34.1.C. unshiu_00334_mRNA_3.1	
GF0003817	2	2	0	Potassium transporter (4)	cellular_component [GO:0016020 biological_process] (4); potassium ion transmembrane transporter activity [GO:0071805 biological_process] (4); potassium ion transmembrane transporter activity [GO:0015079 molecular_function] (4)	Potassium transporter [IPRO03855] (4)	scaffold_4_mRNA_3165.1.scaffold_4_mRNA_3167.1	C. unshiu_00001_mRNA_292.1.C. unshiu_u_00001_mRNA_293.1	
GF0003816	2	2	0	Homogentisate solanase/transferase (2); Homogentisate phytyltransferase (1); Homogentisate phytyltransferase 1, chloroplastic (1)	Homogentisate solanase/transferase (2); prenyltransferase activity [GO:0044659 molecular_function] (2); transferase activity, transferring alkyl or aryl (other than methyl) groups [GO:0016765 molecular_function] (2)	UbiA prenyltransferase family [IPRO00557] (4)	scaffold_4_mRNA_3116.1.scaffold_9_mRNA_3566.1	C. unshiu_00001_mRNA_240.1.C. unshiu_u_01328_mRNA_3.1	
GF0003771	2	2	0	Nepenthesin II (3); Putative aspartic protease (1)	aspartic-type endopeptidase activity [GO:0004190 molecular_function] (4); proteolysis [GO:0006508 biological_process] (4)	Peptidase family A1 domain [IPRO3121] (4); Aspartic peptidase domain [IPRO21109] (4); Aspartic peptidase, active site [IPRO1969] (4); Xylanase inhibitor, N-terminal [IPRO32861] (4); Xylanase inhibitor, C-terminal [IPRO32799] (4); Aspartic peptidase A1 family [IPRO01461] (4); Pepsin-like domain, plant [IPRO34161] (2)	scaffold_4_mRNA_2108.1.scaffold_4_mRNA_2111.1	C. unshiu_00020_mRNA_6.1.C. unshiu_00020_mRNA_8.1	
GF0003761	2	2	0	Hypothetical protein (4)		NPR1/NDM1-like, C-terminal [IPRO21994] (2)	scaffold_4_mRNA_1861.1.scaffold_4_mRNA_1866.1	C. unshiu_00384_mRNA_14.1.C. unshiu_01556_mRNA_11.1	
GF0003760	2	2	0	Nonexpressor of pathogenesis-related protein 1 (3); Ankyrin repeat BTB/POZ domain-containing protein (1)	protein binding [GO:0005515 molecular_function] (4)	Regulatory protein NPR, central domain [IPRO24228] (4); Ankyrin repeat [IPRO02110] (4); Ankyrin repeat-containing domain [IPRO20683] (4); NPR1/NDM1-like, C-terminal [IPRO21094] (4); SKP1/BTB/POZ domain [IPRO11333] (3); BTB/POZ domain [IPRO00210] (3)	scaffold_4_mRNA_1860.1.scaffold_4_mRNA_1868.1	C. unshiu_01584_mRNA_3.1.C. unshiu_02053_mRNA_3.1	
GF0003758	2	2	0	Flavone synthase II (4)	iron ion binding [GO:0005506 molecular_function] (4); heme binding [GO:0020037 molecular_function] (4); oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] (4); oxidation-reduction process [GO:0055114 biological_process] (4)	Cytochrome P450 [IPRO01128] (4); Cytochrome P450, conserved site [IPRO17972] (4); Cytochrome P450, E-class, group 1 [IPRO02401] (4)	scaffold_4_mRNA_1836.1.scaffold_4_mRNA_1838.1	C. unshiu_00428_mRNA_1.1.C. unshiu_02739_mRNA_1.1	
GF0003751	2	2	0	Hypothetical protein (4)	heme binding [GO:0020037 molecular_function] (4); iron ion binding [GO:0005506 molecular_function] (4); oxidation-reduction process [GO:0055114 biological_process] (4); oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] (4)	Cytochrome P450 [IPRO01128] (4)	scaffold_4_mRNA_1691.1.scaffold_7_mRNA_1336.1	C. unshiu_00240_mRNA_24.1.C. unshiu_01151_mRNA_5.1	
GF0003740	2	2	0	BED zinc finger/HAT family dimerization domain isoform 1 (2); Hypothetical protein (1); Putative zinc finger BED domain-containing protein DAY/SLEEPER-like (1)	DNA binding [GO:0003677 molecular_function] (4); nucleic acid binding [GO:0003676 molecular_function] (4); protein dimerization activity [GO:0046983 molecular_function] (2)	Ribonuclease H-like domain [IPRO12337] (4); hAT-like transposase, RNase-H fold [IPRO25525] (4); Zinc finger, BED-type [IPRO03656] (2); HAT C-terminal dimerization domain [IPRO08986] (2); Zinc finger C2H2-type [IPRO1307] (1)	scaffold_4_mRNA_1402.1.scaffold_9_mRNA_788.1	C. unshiu_00019_mRNA_15.1.C. unshiu_00386_mRNA_2.1	
GF0003739	2	2	0	Hypothetical protein (4)		Transposase, Tap1/Eu/Spm-like [IPRO04264] (4)	scaffold_4_mRNA_140.1.scaffold_6_mRNA_1418.1	C. unshiu_00012_mRNA_17.1.C. unshiu_01022_mRNA_9.1	
GF0003714	2	2	0	MuDR family transposase isoform 1 (4)	zinc ion binding [GO:0008270 molecular_function] (4)	Zinc finger, SWIM-type [IPRO07527] (4); hAT-like transposase domain [IPRO18289] (4); Transposase, MuDR, plant [IPRO04332] (4); Zinc finger, PFM2-type [IPRO06564] (2)	scaffold_4_mRNA_1061.1.scaffold_5_mRNA_1060.1	C. unshiu_00111_mRNA_26.1.C. unshiu_01132_mRNA_13.1	
GF0003712	2	2	0	Hypothetical protein (4)			scaffold_4_mRNA_1037.1.scaffold_6_mRNA_111.1	C. unshiu_00885_mRNA_10.1.C. unshiu_00932_mRNA_10.1	
GF0003711	2	2	0	Hypothetical protein (3); Retrotransposon gag protein (1)		Retrotransposon gag domain [IPRO05162] (2)	scaffold_4_mRNA_1032.1.scaffold_4_mRNA_1086.1	C. unshiu_00057_mRNA_1.1.C. unshiu_00097_mRNA_52.1	
GF0003659	2	2	0	Metalloendopeptidase 1 (3); Matrix metalloproteinase (1)	zinc ion binding [GO:0008270 molecular_function] (4); metalloendopeptidase activity [GO:0004222 molecular_function] (4); metalloproteinase activity [GO:0008237 molecular_function] (4); extracellular matrix [GO:0031012 cellular_component] (4); proteolysis [GO:0006508 biological_process] (4)	Peptidase, metallopeptidase [IPRO06026] (4); Peptidase M10A [IPRO21190] (4); Metalloproteinase, catalytic domain [IPRO24079] (4); Peptidase M10, metalloproteinase [IPRO01818] (4); Peptidase M10A, catalytic domain [IPRO33739] (2); Peptidoglycan binding-like [IPRO2427] (1); Peptidase M10A, cysteine switch, zinc-binding site [IPRO21158] (1)	scaffold_3_mRNA_6167.1.scaffold_3_mRNA_756.1	C. unshiu_00001_mRNA_21.1.C. unshiu_03023_mRNA_1.1	
GF0003511	2	2	0	Hypothetical protein (4)	metals ion binding [GO:0048087 molecular_function] (4); glutathione gamma-glutamylcysteinyltransferase activity [GO:0016756 molecular_function] (4); phytochelatin biosynthetic process [GO:0046938 biological_process] (4); response to metal ion [GO:0010038 biological_process] (1)	Phytochelatin synthase, C-terminal [IPRO15407] (4)	scaffold_3_mRNA_4637.1.scaffold_3_mRNA_28.1	C. unshiu_01029_mRNA_1.1.C. unshiu_00259_mRNA_22.1	
GF0003497	2	2	0	Hypothetical protein (4)			scaffold_3_mRNA_4499.1.scaffold_6_mRNA_93.1	C. unshiu_00471_mRNA_5.1.C. unshiu_00711_mRNA_1.1	
GF0003492	2	2	0	Hypothetical protein (4)	zinc ion binding [GO:0008270 molecular_function] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	Zinc finger, CCHC-type [IPRO01878] (1)	scaffold_3_mRNA_3007.1.scaffold_3_mRNA_3015.1	C. unshiu_01094_mRNA_6.1.C. unshiu_03067_mRNA_1.1	
GF0003353	2	2	0	Hypothetical protein (4)			scaffold_3_mRNA_2175.1.scaffold_9_mRNA_2692.1	C. unshiu_00226_mRNA_15.1.C. unshiu_00930_mRNA_9.1	
GF0003313	2	2	0	BED zinc finger/HAT family dimerization domain isoform 1 (2); Putative zinc finger BED domain-containing protein DAY/SLEEPER-like (2)	protein dimerization activity [GO:0046983 molecular_function] (4); nucleic acid binding [GO:0003676 molecular_function] (4); DNA binding [GO:0003677 molecular_function] (4)	HAT, C-terminal dimerization domain [IPRO08986] (4); Ribonuclease H-like domain [IPRO12337] (4); hAT-like transposase, RNase-H fold [IPRO25525] (4); Zinc finger C2H2-type [IPRO13087] (1); Zinc finger, BED-type [IPRO03656] (1)	scaffold_3_mRNA_2615.1.scaffold_7_mRNA_1176.1	C. unshiu_00071_mRNA_13.1.C. unshiu_00775_mRNA_7.1	
GF0003279	2	2	0	Hypothetical protein (4)			scaffold_3_mRNA_77.1.scaffold_2_mRNA_80.1	C. unshiu_00062_mRNA_43.1.C. unshiu_01410_mRNA_2.1	
GF0003121	2	2	0	Hypothetical protein (4)	protein binding [GO:0005515 molecular_function] (4)	Leucine-rich repeat domain, L domain-like [IPRO32675] (4); Leucine-rich repeat [IPRO1611] (4)	scaffold_2_mRNA_492.1.scaffold_5_mRNA_4187.1	C. unshiu_00992_mRNA_4.1.C. unshiu_02006_mRNA_5.1	
GF0003118	2	2	0	Retrotransposon gag protein (4)		Retrotransposon gag domain [IPRO05162] (4)	scaffold_2_mRNA_470.1.scaffold_4_mRNA_493.1	C. unshiu_00061_mRNA_14.1.C. unshiu_01651_mRNA_2.1	
GF0003106	2	2	0	Retrotransposon protein, putative, unclassified (1); Hypothetical protein (1); Non-LTR retroelement reverse transcriptase-like protein (1); RNA-directed DNA polymerase; Ribonuclease H, putative (1)	nucleic acid binding [GO:0003676 molecular_function] (2)	Endonuclease/exonuclease/phosphatase domain [IPRO04077] (2); Reverse transcriptase zinc-binding domain [IPRO20960] (2); Ribonuclease H-like domain [IPRO12337] (2); Zinc knuckle CXXCXXHXK [IPRO28396] (3); Domain of unknown function DUF4283 [IPRO25558] (1)	scaffold_2_mRNA_438.1.scaffold_6_mRNA_1770.1	C. unshiu_00187_mRNA_4.1.C. unshiu_00244_mRNA_30.1	
GF0003101	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 [IPRO01878] (4)	scaffold_2_mRNA_424.1.scaffold_3_mRNA_2484.1	C. unshiu_00526_mRNA_8.1.C. unshiu_01871_mRNA_3.1	
GF0003082	2	2	0	Hypothetical protein (4)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPRO12337] (2)	scaffold_2_mRNA_378.1.scaffold_8_mRNA_1796.1	C. unshiu_00246_mRNA_22.1.C. unshiu_01290_mRNA_8.1	
GF0003039	2	2	0	Hypothetical protein (4)			scaffold_2_mRNA_306.1.scaffold_6_mRNA_228.1	C. unshiu_00502_mRNA_23.1.C. unshiu_02445_mRNA_4.1	
GF0003038	2	2	0	Receptor like protein 33 (2); Receptor like protein 27 (2)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat domain, L domain-like [IPRO32675] (4); Leucine-rich repeat [IPRO1611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPRO13210] (1); Leucine-rich repeat, typical subtype [IPRO03591] (1)	scaffold_2_mRNA_3059.1.scaffold_2_mRNA_3067.1	C. unshiu_00863_mRNA_4.1.C. unshiu_01163_mRNA_8.1	
GF0003026	2	2	0	Hypothetical protein (4)			scaffold_2_mRNA_2857.1.scaffold_2_mRNA_2858.1	C. unshiu_00722_mRNA_7.1.C. unshiu_00722_mRNA_8.1	

ID	Num. in <i>C. caryocarpum</i>	Num. in <i>C. acanthum</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. caryocarpum</i>	Members in <i>C. acanthum</i>	Members in <i>P. trifoliata</i>
GF0003001	2	2	0	Hypothetical protein (3); Protein FARI-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 [IPR01052] (4); Zinc finger, SWIM-type [IPR0527] (2); Zinc finger, PMZ-type [IPR006564] (2); FARI DNA binding domain [IPR004330] (2)	scaffold_2_mRNA_2561.1,scaffold_8_mRNA_1152.1	C. ushii_00211_mRNA_22.1,C. ushii_00682_mRNA_10.1	
GF0002991	2	2	0	Hypothetical protein (4)			scaffold_2_mRNA_2384.1,scaffold_7_mRNA_1319.1	C. ushii_00138_mRNA_11.1,C. ushii_00655_mRNA_6.1	
GF0002985	2	2	0	Hypothetical protein (4)		Retrosposon gag domain [IPR05162] (1)	scaffold_2_mRNA_2203.1,scaffold_9_mRNA_1680.1	C. ushii_00508_mRNA_7.1,C. ushii_00683_mRNA_4.1	
GF0002961	2	2	0	UDP-glucosyltransferase 74E2 (4)	metabolic process [GO:0008152] biological process (4); transferase activity, transferring hexosyl groups [GO:018758 molecular_function] (4)	UDP-glucuronosyl/UDP-glucosyltransferase [IPR02213] (4)	scaffold_2_mRNA_1959.1,scaffold_2_mRNA_3226.1	C. ushii_00030_mRNA_34.1,C. ushii_00141_mRNA_12.1	
GF0002894	2	2	0	Syntaxin 81 (3); Hypothetical protein (1)	vesicle-mediated transport [GO:0016192] biological process (4); membrane [GO:0016020 cellular_component] (4); ribosome [GO:0005840] cellular_component (1); structural constituent of ribosome [GO:0003735 molecular_function] (1); translation [GO:0006412 biological_process] (1); intracellular [GO:0005622 cellular_component] (1)	SNARE-complex protein Syntaxin-18, N-terminal [IPR019529] (4); t-SNARE [IPR010959] (2); SVARE [IPR010989] (2); Translation protein, beta-barrel domain [IPR009000] (1); Ribosomal protein L35A [IPR001780] (1)	scaffold_2_mRNA_1064.1,scaffold_4_mRNA_40.1	C. ushii_00168_mRNA_31.1,C. ushii_00235_mRNA_13.1	
GF0002879	2	2	0	Hypothetical protein (4)			scaffold_1_mRNA_760.1,scaffold_1_mRNA_770.1	C. ushii_00075_mRNA_3.1,C. ushii_01122_mRNA_2.1	
GF0002851	2	2	0	Hypothetical protein (3); Protein FARI-RELATED SEQUENCE 11 (1)	regulation of transcription, DNA-templated [GO:0006355] biological process (4); zinc ion binding [GO:0008270 molecular_function] (2)	FARI DNA binding domain [IPR004330] (4); FHY3/FAR1 family [IPR01052] (4); Zinc finger, PMZ-type [IPR006564] (2); Zinc finger, SWIM-type [IPR00527] (2)	scaffold_1_mRNA_355.1,scaffold_7_mRNA_1193.1	C. ushii_00365_mRNA_19.1,C. ushii_02037_mRNA_3.1	
GF0002838	2	2	0	Hypothetical protein (2); Putative sugar phosphate/phosphate translocator (2)		Acyl-CoA N-acyltransferase [IPR016181] (1); Peptidoglycan biosynthesis/recognition [IPR007434] (1)	scaffold_1_mRNA_3476.1,scaffold_5_mRNA_262.1	C. ushii_00164_mRNA_28.1,C. ushii_00449_mRNA_14.1	
GF0002807	2	2	0	Hypothetical protein (4)	strictosidine synthase activity [GO:0016844 molecular_function] (4); biosynthetic process [GO:0009058 biological_process] (4)	Six-bladed beta-propeller, Toll-like [IPR011042] (4); Strictosidine synthase, conserved region [IPR018119] (4); Strictosidine synthase [IPR004411] (4)	scaffold_1_mRNA_292.1,scaffold_1_mRNA_298.1	C. ushii_01113_mRNA_1.1,C. ushii_02657_mRNA_3.1	
GF0002780	2	2	0	Hypothetical protein (4)		Transposase-associated domain [IPR029480] (1)	scaffold_1_mRNA_2549.1,scaffold_9_mRNA_1981.1	C. ushii_00036_mRNA_53.1,C. ushii_02530_mRNA_1.1	
GF0002758	2	2	0	Hypothetical protein (4)			scaffold_1_mRNA_2266.1,scaffold_5_mRNA_3824.1	C. ushii_00274_mRNA_32.1,C. ushii_01384_mRNA_2.1	
GF0002725	2	2	0	Hypothetical protein (3); Cysteine-rich O.R.K. (RECEPTOR-like protein kinase) 8 (1)		Gag-polyprotein of LTR copia-type [IPR029472] (4); Reverse transcriptase, RNA-dependent DNA polymerase [IPR01103] (1)	scaffold_1_mRNA_1614.1,scaffold_8_mRNA_1191.1	C. ushii_00910_mRNA_7.1,C. ushii_02557_mRNA_2.1	
GF0002716	2	2	0	Hypothetical protein (4)			scaffold_1_mRNA_1514.1,scaffold_6_mRNA_572.1	C. ushii_00756_mRNA_14.1,C. ushii_01623_mRNA_6.1	
GF0002713	2	2	0	Hypothetical protein (4)			scaffold_1_mRNA_1487.1,scaffold_5_mRNA_2505.1	C. ushii_00145_mRNA_68.1,C. ushii_00756_mRNA_12.1	
GF0002711	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_mRNA_1927.1	C. ushii_00374_mRNA_1.1,C. ushii_01568_mRNA_16.1	
GF0002701	2	2	0	Hypothetical protein (4)			scaffold_1_mRNA_1260.1,scaffold_1_mRNA_1313.1	C. ushii_00242_mRNA_21.1,C. ushii_00270_mRNA_18.1	
GF0002693	2	2	0	Hypothetical protein (4)			scaffold_1_mRNA_1143.1,scaffold_5_mRNA_1278.1	C. ushii_00191_mRNA_3.1,C. ushii_00899_mRNA_12.1	
GF0002689	2	2	0	Hypothetical protein (4)	nucleic acid binding [GO:0003676 molecular_function] (4)	Ribonuclease H-like domain [IPR012337] (4)	scaffold_1_mRNA_1106.1,scaffold_9_mRNA_1664.1	C. ushii_00007_mRNA_11.1,C. ushii_00308_mRNA_2.1	
GF0002441	2	3	0	Non-LTR retroelement reverse transcriptase-like (2); RNA-directed DNA polymerase (Reverse transcriptase), RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular_function] (4); H fold-like protein (1); Putative non-LTR retroelement reverse transcriptase (1); RNA-directed DNA polymerase (Reverse transcriptase) 4 (1)	Reverse transcriptase, RNA-dependent DNA polymerase [IPR000477] (2); Endonuclease/exonuclease/phosphatase [IPR005135] (1)	Ribonuclease H domain [IPR002156] (4); Ribonuclease H-like domain [IPR012337] (4); Reverse transcriptase zinc-binding domain [IPR029600] (4); Reverse transcriptase domain [IPR000477] (2); Endonuclease/exonuclease/phosphatase [IPR005135] (1)	scaffold_7_mRNA_1209.1,scaffold_9_mRNA_1975.1	C. ushii_00290_mRNA_23.1,C. ushii_00455_mRNA_12.1,C. ushii_00957_mRNA_8.1	
GF0002386	2	3	0	Lactosylceramide 4-alpha-galactosyltransferase, putative (5)		Glycosyltransferase, DXD sugar-binding motif [IPR007577] (5); Alpha 1,4-glycosyltransferase domain [IPR00652] (5); Nucleotide-diphosphate-sugar transferases [IPR029044] (5)	scaffold_6_mRNA_1763.1,scaffold_6_mRNA_1764.1	C. ushii_00473_mRNA_22.1,C. ushii_00473_mRNA_24.1,C. ushii_00779_mRNA_12.1	
GF0002298	2	3	0	Hypothetical protein (5)			scaffold_5_mRNA_3565.1,scaffold_7_mRNA_2585.1	C. ushii_00372_mRNA_25.1,C. ushii_00618_mRNA_8.1,C. ushii_01187_mRNA_3.1	
GF0002047	2	3	0	Hypothetical protein (5)			scaffold_3_mRNA_3478.2,scaffold_3_mRNA_3482.1	C. ushii_00381_mRNA_10.1,C. ushii_01092_mRNA_1.1,C. ushii_02920_mRNA_1.2	
GF0001924	2	3	0	Verticillium wilt resistance-like protein (4); Receptor like protein 33 (1)	protein binding [GO:0005515 molecular_function] (5)	Leucine-rich repeat domain, L domain-like [IPR032675] (5); Leucine-rich repeat, typical subtype [IPR003591] (5); Leucine-rich repeat [IPR01611] (5); Reverse transcriptase, RNA-dependent DNA polymerase [IPR013103] (1); Leucine rich repeat 4 [IPR025875] (1)	scaffold_2_mRNA_3837.1,scaffold_2_mRNA_3842.1	C. ushii_00185_mRNA_30.1,C. ushii_00185_mRNA_32.1,C. ushii_00185_mRNA_34.1	
GF0001870	2	3	0	UDP-glucosyltransferase 74E2 (5)	metabolic process [GO:0008152] biological process (5); transferase activity, transferring hexosyl groups [GO:018758 molecular_function] (5)	UDP-glucuronosyl/UDP-glucosyltransferase [IPR02213] (5)	scaffold_2_mRNA_1966.1,scaffold_2_mRNA_3228.1	C. ushii_00030_mRNA_27.1,C. ushii_00141_mRNA_14.1,C. ushii_01801_mRNA_3.1	
GF0001786	2	3	0	Hypothetical protein (2); Transposase (1); Putative zinc finger BED domain-containing protein DAYSLPEER-like (1); Transposable element Ac (1)	nucleic acid binding [GO:0003676 molecular_function] (5); protein dimerization activity [GO:0046983 molecular_function] (4); DNA binding [GO:0000677 molecular_function] (4); metabolic process [GO:0008152 biological_process] (2); lyase activity [GO:0016289 molecular_function] (2); terpenase synthase activity [GO:0010333 molecular_function] (2); magnesium ion binding [GO:0000287 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (5); HAT, C-terminal dimerisation domain [IPR008906] (4); hAT-like transposase, RNase-H fold [IPR025555] (3); Zinc finger, BED-type [IPR003656] (3); Terpene synthase, metal-binding domain [IPR005630] (2); Terpene synthase, N-terminal domain [IPR01986] (2); Terpenoid cyclases/protein prenyltransferase alpha-alpha torsion [IPR008930] (2); Isoprenoid synthase domain [IPR008949] (2); Transposase, Mu/DR, plant [IPR004332] (1); Zinc finger C2H2-type [IPR013087] (1)	scaffold_1_mRNA_2390.1,scaffold_7_mRNA_1011.1	C. ushii_01083_mRNA_2.1,C. ushii_01083_mRNA_3.1,C. ushii_01818_mRNA_5.1	
GF0001752	2	3	0	Hypothetical protein (5)			scaffold_1_mRNA_1626.1,scaffold_5_mRNA_588.1	C. ushii_00667_mRNA_12.1,C. ushii_01140_mRNA_20.1,C. ushii_01753_mRNA_3.1	
GF0001570	2	4	0	Hypothetical protein (3); Ulp1 protease 0 family, carboxy-terminal domain protein (2); Recombination RecR (1)	ADP binding [GO:0043531 molecular_function] (1)	Transposase, Top1/En/Spm-like [IPR004264] (6); Probable transposase, Pta/En/Spm, plant [IPR00232] (4); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1); NB-ARC [IPR02182] (1)	scaffold_6_mRNA_1077.1,scaffold_8_mRNA_2227.1	C. ushii_00167_mRNA_2.1,C. ushii_00328_mRNA_13.1,C. ushii_00365_mRNA_30.1,C. ushii_01555_mRNA_1.1	
GF0001561	2	4	0	Hypothetical protein (6)			scaffold_5_mRNA_679.1,scaffold_6_mRNA_66.1	C. ushii_00458_mRNA_4.1,C. ushii_02240_mRNA_2.1,C. ushii_02495_mRNA_2.1	
GF0001535	2	4	0	Hypothetical protein (2); Polynucleotidyl transferase, Ribonuclease H fold (2); Non-LTR retroelement reverse transcriptase-like (1); Putative non-LTR retroelement reverse transcriptase (1)	nucleic acid binding [GO:0003676 molecular_function] (6)	Ribonuclease H-like domain [IPR012337] (6); Reverse transcriptase zinc-binding domain [IPR029600] (6); Endonuclease/exonuclease/phosphatase [IPR005135] (2)	scaffold_5_mRNA_3483.1,scaffold_7_mRNA_1291.1	C. ushii_00010_mRNA_35.1,C. ushii_00049_mRNA_23.1,C. ushii_00199_mRNA_10.1,C. ushii_01929_mRNA_8.1	
GF0001519	2	4	0	Disease resistance protein (CC-NBS-LRR class) family 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); NB-ARC [IPR002182] (6); AAN/ATPase domain [IPR003593] (5); Winged helix-turn-helix DNA-binding domain [IPR011991] (2)	scaffold_5_mRNA_2795.1,scaffold_5_mRNA_2837.1	C. ushii_00263_mRNA_25.1,C. ushii_01408_mRNA_2.1,C. ushii_01783_mRNA_5.1,C. ushii_02128_mRNA_2.1	
GF0001463	2	4	0	Hypothetical protein (6)			scaffold_4_mRNA_2630.1,scaffold_8_mRNA_2098.1	C. ushii_00010_mRNA_95.1,C. ushii_00114_mRNA_11.1,C. ushii_00178_mRNA_18.1,C. ushii_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 [IPR003591] (1); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (1); Leucine-rich repeat [IPR01611] (1)	scaffold_4_mRNA_2055.1,scaffold_5_mRNA_988.1	C. ushii_00083_mRNA_29.1,C. ushii_00104_mRNA_23.1,C. ushii_00387_mRNA_5.1,C. ushii_00830_mRNA_3.1	
GF0001431	2	4	0	Adipocyte plasma membrane-associated 0 protein (4); Putative strictosidine synthase (2)	strictosidine synthase activity [GO:0016844 molecular_function] (6); biosynthetic process [GO:0009058 biological_process] (6)	Strictosidine synthase, conserved region [IPR018119] (6); Strictosidine synthase [IPR004411] (6); Six-bladed beta-propeller, Toll-like [IPR011042] (6)	scaffold_4_mRNA_1046.1,scaffold_4_mRNA_1278.1	C. ushii_00777_mRNA_8.1,C. ushii_00809_mRNA_5.1,C. ushii_00932_mRNA_1.1,C. ushii_02303_mRNA_6.1	
GF0001283	2	4	0	Hypothetical protein (6)		Transposase, Mu/DR, plant [IPR004432] (6); Nucleic acid transposase domain [IPR018289] (3)	scaffold_2_mRNA_511.1,scaffold_5_mRNA_355.1	C. ushii_00015_mRNA_61.1,C. ushii_00016_mRNA_55.1,C. ushii_00062_mRNA_25.1,C. ushii_00147_mRNA_6.1	
GF0001280	2	4	0	Hypothetical protein (6)			scaffold_2_mRNA_473.1,scaffold_8_mRNA_1389.1	C. ushii_00056_mRNA_53.1,C. ushii_00061_mRNA_17.1,C. ushii_00489_mRNA_3.1,C. ushii_00944_mRNA_1.1	
GF0001272	2	4	0	Hypothetical protein (6)		Leucine-rich repeat domain, L domain-like [IPR032675] (4)	scaffold_2_mRNA_4295.1,scaffold_2_mRNA_4417.1	C. ushii_00015_mRNA_76.1,C. ushii_00151_mRNA_7.1,C. ushii_00667_mRNA_7.1,C. ushii_01889_mRNA_4.1	

ID	Num in <i>C. clementinae</i>	Num in <i>C. uschii</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. uschii</i>	Members in <i>P. trifoliata</i>
GF0001231	2	4	0	Hypothetical protein (6)			scaffold_2_mRNA_2444.1,scaffold_9_mRNA_2230.1	C.uschii_00128_mRNA_15.1,C.uschii_00174_mRNA_36.1,C.uschii_01765_mRNA_3.1,C.uschii_02091_mRNA_2.1	
GF0001157	2	4	0	Hypothetical protein (6)			scaffold_1_mRNA_2521.1,scaffold_8_mRNA_2294.1	C.uschii_00364_mRNA_19.1,C.uschii_00702_mRNA_9.1,C.uschii_02577_mRNA_1.1,C.uschii_02841_mRNA_1.1	
GF0001146	2	4	0	Hypothetical protein (6)			scaffold_1_mRNA_2214.1,scaffold_1_mRNA_782.1	C.uschii_00247_mRNA_29.1,C.uschii_00247_mRNA_31.1,C.uschii_00888_mRNA_3.1,C.uschii_01591_mRNA_10.1	
GF0000971	2	5	0	Retrotransposon gag protein (7)		Retrotransposon gag domain [IPRO05162] (7)	scaffold_5_mRNA_1502.1,scaffold_6_mRNA_858.1	C.uschii_00187_mRNA_2.1,C.uschii_00228_mRNA_45.1,C.uschii_00274_mRNA_2.1,C.uschii_00304_mRNA_15.1,C.uschii_02726_mRNA_3.1	
GF0000942	2	5	0	Hypothetical protein (7)			scaffold_3_mRNA_6280.1,scaffold_5_mRNA_5232.1	C.uschii_00051_mRNA_14.1,C.uschii_00051_mRNA_15.1,C.uschii_00309_mRNA_22.1,C.uschii_01012_mRNA_6.1,C.uschii_03148_mRNA_1.1	
GF0000835	2	5	0	Hypothetical protein (7)			scaffold_2_mRNA_1892.1,scaffold_6_mRNA_472.1	C.uschii_00104_mRNA_17.1,C.uschii_00470_mRNA_25.1,C.uschii_01424_mRNA_5.1,C.uschii_02033_mRNA_3.1,C.uschii_02338_mRNA_5.1	
GF0000748	2	6	0	Hypothetical protein (4); Polyprotein (2); RNA-directed DNA polymerase (Reverse transcriptase); Zinc finger. C CCHC-type; Peptidase aspartic, active site; Retrotransposon gag protein (1); Putative polyprotein (Aspartic proteinase, reverse transcriptase, ribonuclease H) (1)	zinc ion binding [GO:0008270] RNA-directed DNA polymerase [GO:0003076] C CCHC-type; Peptidase aspartic, active site; Retrotransposon gag protein (1); Putative polyprotein (Aspartic proteinase, reverse transcriptase, ribonuclease H) (1) [GO:0006508 biological_process] (5)	Zinc finger, CCHC-type [IPRO01878] (7); Peptidase A2A, retrovirus, catalytic [IPRO1995] (5); Reverse transcriptase domain [IPRO04077] (3); Retrospovims [IPRO18061] (5); Aspartic peptidase domain [IPRO21109] (3)	scaffold_8_mRNA_1614.1,scaffold_9_mRNA_2228.1	C.uschii_00074_mRNA_66.1,C.uschii_00074_mRNA_68.1,C.uschii_00138_mRNA_51.1,C.uschii_00145_mRNA_1.1,C.uschii_00479_mRNA_5.1,C.uschii_01893_mRNA_8.1	
GF0000731	2	6	0	Hypothetical protein (8)			scaffold_6_mRNA_457.1,scaffold_8_mRNA_1570.1	C.uschii_00350_mRNA_3.1,C.uschii_00350_mRNA_32.1,C.uschii_00408_mRNA_16.1,C.uschii_01245_mRNA_11.1,C.uschii_01374_mRNA_8.1,C.uschii_01503_mRNA_7.1	
GF0000623	2	6	0	Hypothetical protein (8)			scaffold_2_mRNA_2938.1,scaffold_4_mRNA_1091.1	C.uschii_00014_mRNA_116.1,C.uschii_00029_mRNA_87.1,C.uschii_00055_mRNA_48.1,C.uschii_00271_mRNA_4.1,C.uschii_00984_mRNA_13.1,C.uschii_01350_mRNA_3.1	
GF0000566	2	7	0	Hypothetical protein (7); Specific tissue protein 1, putative (1); Pea shoot-specific protein (1)		Organ specific protein [IPRO24489] (9)	scaffold_8_mRNA_741.1,scaffold_8_mRNA_756.1	C.uschii_00085_mRNA_8.1,C.uschii_00432_mRNA_17.1,C.uschii_01007_mRNA_3.1,C.uschii_01565_mRNA_2.1,C.uschii_02149_mRNA_3.1,C.uschii_02763_mRNA_2.1	
GF0024944	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_992.1	C.uschii_00161_mRNA_30.1	
GF0024943	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_990.1	C.uschii_00161_mRNA_34.1	
GF0024941	1	1	0	LRR receptor-like kinase family protein (2)	protein binding [GO:0005515] molecular_function (2)	Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Leucine-rich repeat [IPRO01611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPRO13210] (2)	scaffold_9_mRNA_987.1	C.uschii_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)	Peptidase S8/S53 domain [IPRO0209] (2); Peptidase S8, subtilisin-related [IPRO15500] (1)	scaffold_9_mRNA_986.1	C.uschii_00287_mRNA_19.1	
GF0024939	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515] molecular_function (2)	Leucine-rich repeat [IPRO01611] (2); Leucine-rich repeat, typical subtype [IPRO03591] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2)	scaffold_9_mRNA_985.1	C.uschii_00307_mRNA_7.1	
GF0024938	1	1	0	Nuclear transport factor 2 family protein with RNA binding domain isoform 2 (2)	nucleic acid binding [GO:0003676 molecular_function] (2); intracellular [GO:0005622 cellular_component] (2); transport [GO:0006810 biological_process] (2); nucleotide binding [GO:0000166 molecular_function] (1)	NT2-like domain [IPRO23710] (2); Nuclear transport factor 2 [IPRO02075] (2); Nuclear transport factor 2, eukaryote [IPRO18222] (2); RNA recognition motif domain [IPRO00594] (2); Nucleotide-binding alpha-beta plat domain [IPRO12677] (1)	scaffold_9_mRNA_982.1	C.uschii_00307_mRNA_10.1	
GF0024937	1	1	0	Pentatricopeptide (PPR) repeat protein (2)	protein binding [GO:0005515] molecular_function (2)	Pentatricopeptide repeat [IPRO02885] (2); Tetra- or pentapeptide-like helical domain [IPRO11990] (2)	scaffold_9_mRNA_980.1	C.uschii_00307_mRNA_12.1	
GF0024936	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_979.1	C.uschii_00307_mRNA_13.1	
GF0024935	1	1	0	Zinc finger protein CONSTANS-LIKE 4 (2)	protein binding [GO:0005515] molecular_function (2)	CCT domain [IPRO10402] (2)	scaffold_9_mRNA_972.1	C.uschii_00307_mRNA_21.1	
GF0024934	1	1	0	Peptide transporter PTR3-A (2)	membrane [GO:0016020 cellular_component] (2); transport [GO:0006810 biological_process] (2); transporter activity [GO:0005215 molecular_function] (2)	Proton-dependent oligopeptide transporter family [IPRO00109] (2); Major facilitator superfamily domain [IPRO20846] (2)	scaffold_9_mRNA_957.1	C.uschii_01048_mRNA_5.1	
GF0024933	1	1	0	Hypothetical protein (2)	ATPase activity [GO:0016887 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2)	S-adenosyl-L-methionine-dependent methyltransferase [IPRO29065] (1)	scaffold_9_mRNA_950.1	C.uschii_01048_mRNA_11.1	
GF0024932	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_947.1	C.uschii_00959_mRNA_12.1	
GF0024931	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_944.1	C.uschii_00146_mRNA_1.1	
GF0024930	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_937.1	C.uschii_00146_mRNA_8.1	
GF0024929	1	1	0	Cyclopropane-fatty-acyl-phospholipid synthase (1); Hypothetical protein (1)	oxidoreductase activity [GO:0016491 molecular_function] (1); oxidation-reduction process [GO:0055114 biological_process] (1)	ABC transporter-like [IPRO03439] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2)	scaffold_9_mRNA_936.1	C.uschii_00146_mRNA_7.1	
GF0024928	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_934.1	C.uschii_00146_mRNA_11.1	
GF0024926	1	1	0	Hypothetical protein (2)	protein peptidyl-prolyl isomerization [GO:0000413 biological_process] (2); protein folding [GO:0006457 biological_process] (2); nucleic acid binding [GO:0003676 molecular_function] (2); peptidyl-prolyl cis-trans isomerase activity [GO:0003755 molecular_function] (2); nucleotide binding [GO:0000166 molecular_function] (1)	RNA recognition motif domain [IPRO00504] (2); Cyclophilin-like domain [IPRO29000] (2); Cyclophilin-type peptidyl-prolyl cis-trans isomerase domain [IPRO02130] (2); Ferritin-related domain [IPRO12347] (1); Nucleotide-binding alpha-beta plat domain [IPRO12677] (1); Cyclophilin-type peptidyl-prolyl cis-trans isomerase [IPRO24936] (1)	scaffold_9_mRNA_931.1	C.uschii_00007_mRNA_94.1	
GF0024924	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_913.1	C.uschii_00146_mRNA_32.1	
GF0024923	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_907.1	C.uschii_00146_mRNA_37.1	
GF0024922	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_902.1	C.uschii_01125_mRNA_1.1	
GF0024920	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_888.1	C.uschii_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:0003735 molecular_function] (2); ribosome [GO:0005840 cellular_component] (2)	Ribosomal protein L36e [IPRO00509] (2)	scaffold_9_mRNA_879.1	C.uschii_00396_mRNA_1.1	
GF0024917	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_875.1	C.uschii_00396_mRNA_4.1	
GF0024916	1	1	0	Hypothetical protein (2)	ubiquitin protein ligase binding [GO:0011625 molecular_function] (2); ubiquitin-dependent protein catabolic process [GO:0006511 biological_process] (2)	Cullin, N-terminal [IPRO01373] (2); Cullin repeat-like-containing domain [IPRO16139] (2)	scaffold_9_mRNA_872.1	C.uschii_00396_mRNA_7.1	
GF0024914	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_871.1	C.uschii_00007_mRNA_99.1	
GF0024913	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_867.1	C.uschii_00396_mRNA_12.1	
GF0024912	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_854.1	C.uschii_00057_mRNA_56.1	
GF0024910	1	1	0	11S globulin (2)	nutrient reservoir activity [GO:0045735 molecular_function] (2)	Splicing factor 2B subunit 5/RDS3 complex subunit 10 [IPRO09846] (2) RmlC-like cupin domain [IPRO11051] (2); RmlC-like jelly roll fold [IPRO14710] (2); 11-S seed storage protein, conserved site [IPRO22379] (2); Cupin 1 [IPRO06045] (2); 11-S seed storage protein, plant [IPRO06044] (2)	scaffold_9_mRNA_845.2	C.uschii_00057_mRNA_47.1	
GF0024908	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_824.1	C.uschii_00164_mRNA_15.1	
GF0024907	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_822.1	C.uschii_00164_mRNA_16.1	
GF0024906	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_821.1	C.uschii_00164_mRNA_17.1	
GF0024905	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_819.1	C.uschii_00164_mRNA_19.1	
GF0024904	1	1	0	Repetitive proline-rich cell wall protein 1 (2)			scaffold_9_mRNA_818.1	C.uschii_00164_mRNA_20.1	
GF0024903	1	1	0	Putative retroelement pol polyprotein (2)			scaffold_9_mRNA_815.1	C.uschii_00164_mRNA_22.1	
GF0024902	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4283 [IPRO25583] (2); Endonuclease/exonuclease/phosphatase [IPRO05135] (1); Zinc knuckle CX2CX4HX4C [IPRO25836] (1)	scaffold_9_mRNA_812.1	C.uschii_00164_mRNA_25.1	
GF0024901	1	1	0	Ethylene-responsive transcription factor ERF098 (2)	DNA binding [GO:0003677 molecular_function] (2); regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); transcription factor activity, sequence-specific DNA binding [GO:0003700 molecular_function] (2)	AP2/ERF domain [IPRO01471] (2); DNA-binding domain [IPRO16177] (2)	scaffold_9_mRNA_810.1	C.uschii_00164_mRNA_27.1	
GF0024898	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_796.1	C.uschii_01106_mRNA_8.1	
GF0024897	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_792.1	C.uschii_01106_mRNA_4.1	

ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF0024896	1	1	0	1-aminocyclopropane-1-carboxylate oxidase like 12 (2)	oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2)	Isopenicillin N synthase-like [IPR07443] (2); Non-heme dioxygenase N-terminal domain [IPR026992] (2); Orogulate/iron-dependent dioxygenase [IPR005123] (2)	caffold_9_mRNA_787.1	C_unshiu_00386_mRNA_3.1	-
GF0024895	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 [IPR003656] (2); Zinc finger C2H2-type [IPR013087] (1)	caffold_9_mRNA_786.1	C_unshiu_00386_mRNA_4.1	-
GF0024894	1	1	0	Hypothetical protein (2)		Pentapeptide repeat [IPR02885] (2); Cw19-like, C-terminal domain-1 [IPR006788] (2); Cw19-like protein, C-terminal domain-2 [IPR006767] (2)	caffold_9_mRNA_773.1	C_unshiu_00410_mRNA_4.1	-
GF0024893	1	1	0	Hypothetical protein (2)			caffold_9_mRNA_772.1	C_unshiu_00410_mRNA_2.1	-
GF0024891	1	1	0	Hypothetical protein (2)			caffold_9_mRNA_759.1	C_unshiu_00052_mRNA_67.1	-
GF0024889	1	1	0	Hypothetical protein (2)	cellulose biosynthetic process [GO:0030244 biological_process] (1); membrane [GO:0016020 cellular_component] (1); cellulose synthase (UDP-forming) activity [GO:0016760 molecular_function] (1)	Protein of unknown function DUF247, plant [IPR004158] (2); Cellulose synthase [IPR005150] (1)	caffold_9_mRNA_751.1	C_unshiu_00052_mRNA_57.1	-
GF0024887	1	1	0	StAR-related lipid transfer protein 7, mitochondrial (2)	lipid binding [GO:0008289 molecular_function] (2)	START-like domain [IPR023393] (2); START domain [IPR02913] (2)	caffold_9_mRNA_734.1	C_unshiu_00445_mRNA_14.1	-
GF0024886	1	1	0	P-loop nucleoside triphosphate hydrolysis superfamily protein (2)	ATP binding [GO:0005254 molecular_function] (2); kinase activity [GO:0016501 molecular_function] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Zeta toxin domain [IPR01488] (2)	caffold_9_mRNA_731.1	C_unshiu_00445_mRNA_12.1	-
GF0024885	1	1	0	Histone H1 (2)	nucleosome [GO:0000786 cellular_component] (2); nucleosome assembly [GO:0006334 biological_process] (2); DNA binding [GO:0006677 molecular_function] (2); nucleus [GO:0005634 cellular_component] (2)	Histone H1 [IPR005819] (2); Linker histone H1H5, domain H15 [IPR005818] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (2)	caffold_9_mRNA_730.1	C_unshiu_00445_mRNA_11.1	-
GF0024884	1	1	0	40S ribosomal protein S15 (2)	ribosome [GO:0005840 cellular_component] (2); RNA binding [GO:0003723 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)	Ribosomal protein S19 conserved site [IPR020934] (2); Ribosomal protein S19, superfamily [IPR023575] (2); Ribosomal protein S19A/S15e [IPR006713] (2); Ribosomal protein S19/S15 [IPR002222] (2)	caffold_9_mRNA_729.2	C_unshiu_00445_mRNA_10.2	-
GF0024883	1	1	0	Ankyrin repeat family protein, putative (2)	protein binding [GO:0005515 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 salicylic acid mediated signaling pathway [GO:2000031 biological_process] (1); regulation of defense response [GO:0033347 biological_process] (1)	PGG domain [IPR026961] (2); Ankyrin repeat-containing domain [IPR020683] (2); Ankyrin repeat [IPR002110] (2); Protein accelerated cell death 6 [IPR032846] (1)	caffold_9_mRNA_722.1	C_unshiu_01876_mRNA_3.1	-
GF0024882	1	1	0	Ankyrin repeat family protein, putative (2)	protein binding [GO:0005515 molecular_function] (2); regulation of defense response [GO:2000031 biological_process] (1); integral component of membrane [GO:0016021 cellular_component] (1); cellular response to salicylic acid stimulus [GO:0071446 biological_process] (1)	Ankyrin repeat [IPR002110] (2); PGG domain [IPR026961] (2); Ankyrin repeat-containing domain [IPR020683] (2); Protein accelerated cell death 6 [IPR032846] (1)	caffold_9_mRNA_711.1	C_unshiu_00436_mRNA_30.1	-
GF0024881	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2); response to oxidative stress [GO:0006979 biological_process] (1); chloroplast [GO:0009007 cellular_component] (1)	Ankyrin repeat [IPR002110] (2); Ankyrin repeat-containing domain [IPR020683] (2)	caffold_9_mRNA_710.1	C_unshiu_00436_mRNA_28.1	-
GF0024878	1	1	0	NAD(P)H dehydrogenase 18 (2)	response to oxidative stress [GO:0006979 biological_process] (1); chloroplast [GO:0009007 cellular_component] (1)	Photosynthetic NDH subunit of subcomplex B 5, chloroplast [IPR034569] (1)	caffold_9_mRNA_695.1	C_unshiu_00436_mRNA_12.1	-
GF0024877	1	1	0	Hypothetical protein (2)		EF-Hand 1, calcium-binding site [IPR018247] (2); EF-hand domain [IPR002048] (2); EF-hand domain pair [IPR011992] (2)	caffold_9_mRNA_683.1	C_unshiu_00436_mRNA_3.1	-
GF0024874	1	1	0	Calmodulin (2)	calcium ion binding [GO:0005509 molecular_function] (2)	EF-Hand 1, calcium-binding site [IPR018247] (2); EF-hand domain [IPR002048] (2); EF-hand domain pair [IPR011992] (2)	caffold_9_mRNA_667.1	C_unshiu_00298_mRNA_14.1	-
GF0024873	1	1	0	1,2-dihydroxy-3-keto-5-methylthiopentane dioxygenase 4 (1); 1,2-dihydroxy-3-keto-5-methylthiopentane dioxygenase 2 (1)	acredactone dioxygenase [iron]-requiring activity [GO:0010309 molecular_function] (1); L-methionine salvage from methylthioadenosine [GO:0015509 biological_process] (1); oxidoreductase activity [GO:0016491 molecular_function] (1); oxidation-reduction process [GO:0055114 biological_process] (1)	RmlC-like jelly roll fold [IPR014710] (1); RmlC-like cupin domain [IPR11051] (1); 1,2-dihydroxy-3-keto-5-methylthiopentane dioxygenase, eukaryotes [IPR027496] (1); Aciredactone dioxygenase ARD family [IPR004313] (1)	caffold_9_mRNA_644.2	C_unshiu_00101_mRNA_29.1	-
GF0024872	1	1	0	Hypothetical protein (2)			caffold_9_mRNA_639.1	C_unshiu_00101_mRNA_34.1	-
GF0024871	1	1	0	Leucine-rich repeat receptor-like protein kinase family (2)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat domain, L domain-like [IPR02675] (2); Leucine-rich repeat [IPR01611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2)	caffold_9_mRNA_627.1	C_unshiu_00101_mRNA_53.1	-
GF0024870	1	1	0	Hypothetical protein (2)			caffold_9_mRNA_626.1	C_unshiu_00085_mRNA_51.1	-
GF0024869	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005254 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 [IPR000719] (2); Serine/threonine/tyrosine-specific protein kinase, catalytic domain [IPR002290] (1)	caffold_9_mRNA_614.1	C_unshiu_00369_mRNA_7.1	-
GF0024868	1	1	0	Hypothetical protein (2)			caffold_9_mRNA_605.1	C_unshiu_00369_mRNA_17.1	-
GF0024867	1	1	0	Ribosomal protein L19 (2)	translation [GO:0006412 biological_process] (2); intracellular [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:0022625 cellular_component] (1)	Ribosomal protein L19L19e, domain 3 [IPR015974] (2); Ribosomal protein L19L19e, domain 1 [IPR015972] (2); Ribosomal protein L19L19e conserved site [IPR023658] (2); Ribosomal protein L19L19e, domain 2 [IPR015973] (1); Ribosomal protein L19L19e [IPR00196] (1); Ribosomal protein L19L19e domain [IPR00196] (1); Ribosomal protein L19, eukaryotic [IPR033935] (1)	caffold_9_mRNA_602.1	C_unshiu_00369_mRNA_20.1	-
GF0024866	1	1	0	Hypothetical protein (2)			caffold_9_mRNA_597.1	C_unshiu_00254_mRNA_42.1	-
GF0024864	1	1	0	Cysteine synthase (2)	cysteine biosynthetic process from serine [GO:0006535 biological_process] (2); cysteine synthase activity [GO:0004124 molecular_function] (2)	Cysteine synthase [IPR005856] (2); Cysteine synthase/cystathionine beta-synthase, pyridoxal-phosphate attachment site [IPR01216] (2); Tryptophan synthase beta subunit-like PLP-dependent enzyme [IPR019256] (2); Cysteine synthase CysK [IPR005859] (2)	caffold_9_mRNA_575.1	C_unshiu_00254_mRNA_24.1	-
GF0024861	1	1	0	Amine oxidase (flavin-containing) (2)	primary amine oxidase activity [GO:0008131 molecular_function] (2); copper ion binding [GO:0005507 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); quinone binding [GO:0040308 molecular_function] (2); amine metabolic process [GO:0009308 biological_process] (2)	Copper amine oxidase, C-terminal [IPR015798] (2); Copper amine oxidase, N-terminal [IPR016182] (2); Copper amine oxidase, N3-terminal [IPR015802] (2); Copper amine oxidase, N2-terminal [IPR015800] (2); Copper amine oxidase [IPR00269] (2)	caffold_9_mRNA_554.1	C_unshiu_00254_mRNA_4.1	-
GF0024860	1	1	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:0040308 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); copper ion binding [GO:0005507 molecular_function] (2); primary amine oxidase activity [GO:0008131 molecular_function] (2)	Copper amine oxidase, N2-terminal [IPR015800] (2); Copper amine oxidase, N3-terminal [IPR015802] (2); Copper amine oxidase, C-terminal [IPR015798] (2)	caffold_9_mRNA_553.1	C_unshiu_00254_mRNA_3.1	-
GF0024859	1	1	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:0005254 molecular_function] (2)	Protein kinase-like domain [IPR011009] (2); Protein kinase domain [IPR000719] (2)	caffold_9_mRNA_548.1	C_unshiu_00126_mRNA_56.1	-
GF0024858	1	1	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:0040308 molecular_function] (2); copper ion binding [GO:0005507 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2)	Copper amine oxidase, C-terminal [IPR015798] (2); Copper amine oxidase [IPR00269] (2); Copper amine oxidase, N-terminal [IPR016182] (1); Copper amine oxidase, N2-terminal [IPR015800] (1)	caffold_9_mRNA_546.1	C_unshiu_00126_mRNA_58.1	-
GF0024856	1	1	0	Hypothetical protein (2)			caffold_9_mRNA_523.1	C_unshiu_00051_mRNA_51.1	-
GF0024855	1	1	0	Ribonuclease P/MRP protein subunit POPS (2)	ribonuclease activity [GO:0004540 molecular_function] (1); RNA processing [GO:0008033 biological_process] (1)	Ribonuclease P/MRP protein subunit [IPR02759] (1)	caffold_9_mRNA_522.1	C_unshiu_00051_mRNA_50.1	-
GF0024854	1	1	0	Ondogenetic ameloblast-associated (2)			caffold_9_mRNA_500.1	C_unshiu_00051_mRNA_32.1	-



ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF0024853	1	1	0	NEDD8-activating enzyme E1 catalytic subunit (2)	NEDD8-activating enzyme activity [GO:019781 molecular_function] (2); small protein activating enzyme activity [GO:0008641 molecular_function] (2); ATP binding [GO:0005254 molecular_function] (2); acid-aminoacyl ligase activity [GO:0016881 molecular_function] (2); protein neddylation [GO:0045116 biological_process] (2)	TH1F-type NAD/FAD binding fold [IPR000594] (2); E2 binding [IPR014929] (2); NEDD8-activating enzyme E1 catalytic subunit [IPR030468] (2); Ubiquitin-activating enzyme E1, Cys scaffold_9_mRNA_499.2 active site [IPR033127] (2); NAD(P)-binding domain [IPR016040] (1); Ubiquitin activating enzyme, alpha domain [IPR023318] (1)	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, N-terminal [IPR033861] (2); Xylanase inhibitor, C-terminal [IPR032799] (2); Aspartic peptidase A1 family [IPR001461] (2); Xylanase inhibitor 1-like [IPR033868] (1)	scaffold_9_mRNA_493.1	C_unshiu_00051_mRNA_26.1	-
GF0024850	1	1	0	Hypothetical protein (2)		Aspartic peptidase domain [IPR021109] (2); Peptidase family A1 domain [IPR033121] (2); Aspartic peptidase A1 family [IPR001461] (2); Xylanase inhibitor, C-terminal [IPR032799] (2); Xylanase inhibitor, N-terminal [IPR033861] (2); Xylanase inhibitor 1-like [IPR033868] (1)	scaffold_9_mRNA_488.1	C_unshiu_00051_mRNA_23.1	-
GF0024849	1	1	0	Basic 7S globulin (2)	proteolysis [GO:0006508 biological_process] (2); aspartic-type endopeptidase activity [GO:0004190 molecular_function] (2)	Ferritin-like superfamily [IPR009078] (2); Ribonucleotide reductase small subunit, active site [IPR030475] (2); Ribonucleotide reductase small subunit [IPR033909] (1); Ribonucleotide reductase-related [IPR012348] (1); Ribonucleotide reductase small subunit [IPR003358] (1); Ribonucleotide reductase small subunit family [IPR000358] (1)	scaffold_9_mRNA_485.1	C_unshiu_00702_mRNA_6.1	-
GF0024848	1	1	0	Hypothetical 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_9_mRNA_476.1	C_unshiu_00097_mRNA_16.1	-
GF0024846	1	1	0	Ribonucleoside-diphosphate reductase small chain (2)	oxidation-reduction process [GO:005514 biological_process] (2); deoxyribonucleoside diphosphate metabolic process [GO:0009186 biological_process] (1); deoxyribonucleoside biosynthetic process [GO:0009263 biological_process] (1); oxidoreductase activity [GO:0016491 molecular_function] (1)	Ferritin-like superfamily [IPR009078] (2); Ribonucleotide reductase small subunit, active site [IPR030475] (2); Ribonucleotide reductase small subunit [IPR033909] (1); Ribonucleotide reductase-related [IPR012348] (1); Ribonucleotide reductase small subunit [IPR003358] (1); Ribonucleotide reductase small subunit family [IPR000358] (1)	scaffold_9_mRNA_460.1	C_unshiu_00097_mRNA_30.1	-
GF0024844	1	1	0	Dienelactone hydrolase family, putative (2)	hydrolase activity [GO:0016787 molecular_function] (1)	Alpha Beta hydrolase fold [IPR029058] (2); Dienelactone hydrolase [IPR002925] (1)	scaffold_9_mRNA_454.1	C_unshiu_00097_mRNA_37.1	-
GF0024843	1	1	0	Hypothetical protein (2)		EF-hand 1, calcium-binding site [IPR018247] (2); EF-hand domain pair [IPR011992] (2)	scaffold_9_mRNA_453.1	C_unshiu_00097_mRNA_38.1	-
GF0024842	1	1	0	EF-hand, calcium binding motif-containing protein (2)	calcium ion binding [GO:0005509 molecular_function] (2)	EF-hand domain [IPR020488] (2); EF-hand 1, calcium-binding site [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)		Bax inhibitor 1-related [IPR006214] (1)	scaffold_9_mRNA_434.1	C_unshiu_00040_mRNA_71.1	-
GF0024839	1	1	0	Hypothetical protein (2)		Chaperonin TCP-1, conserved site [IPR02194] (2)	scaffold_9_mRNA_422.1	C_unshiu_00040_mRNA_57.1	-
GF0024838	1	1	0	Glytamate binding protein (1); Hypothetical protein (1)		Chaperonin TCP-1, conserved site [IPR02194] (2)	scaffold_9_mRNA_410.1	C_unshiu_00366_mRNA_24.1	-
GF0024837	1	1	0	Hypothetical protein (2)		Nucleotide-diphosphate-sugar transferase [IPR020044] (2); Domain of unknown function DUF4283 [IPR025558] (2)	scaffold_9_mRNA_408.1	C_unshiu_00366_mRNA_26.1	-
GF0024836	1	1	0	Hypothetical protein (2)		Chaperonin TCP-1, conserved site [IPR02194] (2)	scaffold_9_mRNA_401.1	C_unshiu_00366_mRNA_32.1	-
GF0024835	1	1	0	Pentatricopeptide repeat-containing protein, chloroplastic (2)	protein binding [GO:0005515 molecular_function] (1)	Chaperonin TCP-1 family [IPR024231] (2); GroEL-like equatorial domain [IPR027413] (2); C-complex protein 1, gamma subunit [IPR012719] (2); Chaperone tailless complex polypeptide 1 (TCP-1) [IPR017998] (2); Chaperonin TCP-1, conserved site [IPR02194] (2)	scaffold_9_mRNA_40.1	C_unshiu_00007_mRNA_143.1	-
GF0024831	1	1	0	Histidine-containing phosphotransfer protein 4 (2)	signal transducer activity [GO:0004871 molecular_function] (2); phosphoryl signal transduction system [GO:0006166 biological_process] (2)	Signal transduction histidine kinase, phosphotransfer (Hpt) domain [IPR008207] (2)	scaffold_9_mRNA_386.1	C_unshiu_00394_mRNA_22.1	-
GF0024830	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005254 molecular_function] (2); unfolded protein binding [GO:0051082 molecular_function] (2); protein folding [GO:0006457 biological_process] (2)	Chaperonin Cpn60/TCP-1 family [IPR024231] (2); GroEL-like equatorial domain [IPR027413] (2); C-complex protein 1, gamma subunit [IPR012719] (2); Chaperone tailless complex polypeptide 1 (TCP-1) [IPR017998] (2); Chaperonin TCP-1, conserved site [IPR02194] (2)	scaffold_9_mRNA_384.0	C_unshiu_00003_mRNA_118.1	-
GF0024829	1	1	0	Hypothetical protein (2)		Major facilitator superfamily domain [IPR020846] (2)	scaffold_9_mRNA_383.1	C_unshiu_00003_mRNA_115.1	-
GF0024828	1	1	0	Hypothetical protein (2)		Major facilitator superfamily domain [IPR020846] (2)	scaffold_9_mRNA_383.3	C_unshiu_00003_mRNA_111.1	-
GF0024826	1	1	0	Hypothetical protein (2)		Major facilitator superfamily domain [IPR020846] (2)	scaffold_9_mRNA_380.8	C_unshiu_00003_mRNA_89.1	-
GF0024825	1	1	0	Nuclear transcription factor Y subunit C-9 (1); Nuclear transcription factor Y subunit C-9 (1)	protein heterodimerization activity [GO:0046982 molecular_function] (2)	Transcription factor CBF/NEF/archaeal histone domain [IPR003958] (2); Helix-turn-helix motif [IPR009072] (2)	scaffold_9_mRNA_379.6	C_unshiu_00003_mRNA_76.1	-
GF0024822	1	1	0	Spllicing factor, arginine/serine-rich 12 (2)		14-3-3 domain [IPR023410] (2); 14-3-3 protein [IPR000308] (2)	scaffold_9_mRNA_376.6	C_unshiu_00003_mRNA_49.1	-
GF0024821	1	1	0	Hypothetical protein (2)		14-3-3 domain [IPR023410] (2); 14-3-3 protein [IPR000308] (2)	scaffold_9_mRNA_376.4	C_unshiu_00303_mRNA_34.1	-
GF0024818	1	1	0	FUS1/COCCIN receptor protein s (2)	protein domain specific binding [GO:0019904 molecular_function] (2)	Fungal organ boundaries, LOB [IPR004883] (2)	scaffold_9_mRNA_374.3	C_unshiu_00003_mRNA_26.1	-
GF0024816	1	1	0	LOB domain-containing protein 4 (2)		Fungal organ boundaries, LOB [IPR004883] (2)	scaffold_9_mRNA_373.6	C_unshiu_00003_mRNA_32.1	-
GF0024815	1	1	0	Hypothetical protein (2)		Ribonuclease H-like domain [IPR012337] (2); Cyclic nucleotide-binding-like [IPR018490] (2); RmC-like jelly roll fold [IPR014710] (2); Cyclic nucleotide-binding domain [IPR000595] (2); HAT, C-terminal dimerisation domain [IPR008096] (2); RmC-like jelly roll fold [IPR014710] (2); Cyclic nucleotide-binding-like [IPR018490] (2); Cyclic nucleotide-binding domain [IPR000595] (2); Gag-polypeptide of LTR copia-type [IPR029472] (1)	scaffold_9_mRNA_373.4	C_unshiu_00003_mRNA_23.1	-
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)	14-3-3 domain [IPR023410] (2); 14-3-3 protein [IPR000308] (2)	scaffold_9_mRNA_371.4	C_unshiu_00003_mRNA_3.1	-
GF0024812	1	1	0	Hypothetical protein (2)		Ribonuclease H-like domain [IPR012337] (2); Cyclic nucleotide-binding-like [IPR018490] (2); RmC-like jelly roll fold [IPR014710] (2); Cyclic nucleotide-binding domain [IPR000595] (2); HAT, C-terminal dimerisation domain [IPR008096] (2); RmC-like jelly roll fold [IPR014710] (2); Cyclic nucleotide-binding-like [IPR018490] (2); Cyclic nucleotide-binding domain [IPR000595] (2); Gag-polypeptide of LTR copia-type [IPR029472] (1)	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)		Cyclic nucleotide-binding domain [IPR000595] (2); RmC-like jelly roll fold [IPR014710] (2); Cyclic nucleotide-binding-like [IPR018490] (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); RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular_function] (2)	Ribonuclease H domain [IPR002156] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_9_mRNA_370.5	C_unshiu_00740_mRNA_1.1	-
GF0024808	1	1	0	Cyclic nucleotide-gated ion channel-like protein (2)	telohalose biosynthetic process [GO:0005992 biological_process] (2); ion channel activity [GO:0005216 molecular_function] (2); catalytic activity [GO:0003824 molecular_function] (2); membrane [GO:0016020 cellular_component] (2); ion transport [GO:0006811 biological_process] (2); transmembrane transport [GO:0055085 biological_process] (2)	HAD-superfamily hydrolase, subfamily IIB [IPR006379] (2); Trehalose-phosphatase [IPR003377] (2); Cyclic nucleotide-binding domain [IPR000595] (2); Cyclic nucleotide-binding-like [IPR018490] (2); Ion transport domain [IPR005821] (2); HAD-like domain [IPR023214] (2); RmC-like jelly roll fold [IPR014710] (2)	scaffold_9_mRNA_369.6	C_unshiu_00134_mRNA_2.1	-
GF0024807	1	1	0	Pentatricopeptide repeat-containing family protein (1); PPR containing plant-like protein (1)	protein binding [GO:0005515 molecular_function] (2)	Pentatricopeptide repeat [IPR022885] (2); Tetra- or pentapeptide-like helical domain [IPR011990] (2)	scaffold_9_mRNA_367.6	C_unshiu_00134_mRNA_19.1	-
GF0024806	1	1	0	tRNA dimethylallyltransferase (2)		Protein of unknown function DUF3143 [IPR024593] (2); Leucine-rich repeat [IPR001611] (2)	scaffold_9_mRNA_365.0	C_unshiu_00134_mRNA_44.1	-
GF0024805	1	1	0	Disease resistance family protein / LRR family protein, putative (1); LRR receptor-like kinase family protein (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); Leucine-rich repeat, typical subtype [IPR003591] (1)	scaffold_9_mRNA_364.5	C_unshiu_00134_mRNA_51.1	-
GF0024802	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPR032675] (2); Leucine-rich repeat [IPR001611] (2); Ribonuclease H-like domain [IPR012337] (1)	scaffold_9_mRNA_362.2	C_unshiu_00056_mRNA_50.1	-
GF0024801	1	1	0	Disease resistance family protein / LRR family protein, putative (2)	protein binding [GO:0005515 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (1)	Leucine-rich repeat domain, L domain-like [IPR032675] (2); Leucine-rich repeat [IPR001611] (2); Ribonuclease H-like domain [IPR012337] (1)	scaffold_9_mRNA_362.0	C_unshiu_00056_mRNA_48.1	-
GF0024800	1	1	0	Salsarinaldol 7-O-acetyltransferase (1); Salsarinaldol 7-O-acetyltransferase, putative (1)	transferrase activity, transferring acyl groups other than amino-acyl groups [GO:0016747 molecular_function] (2)	Transferrase [IPR034800] (2); Chloramphenicol 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)	iron ion binding [GO:0005506 molecular_function] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); fatty acid biosynthetic process [GO:0006633 biological_process] (1); lipid biosynthetic process [GO:0008610 biological_process] (1)	Fatty acid hydroxylase [IPR006694] (2)	scaffold_9_mRNA_359.3	C_unshiu_00056_mRNA_20.1	-
GF0024798	1	1	0	Putative membrane yjcL (2)		Protein of unknown function DUF819 [IPR008537] (2)	scaffold_9_mRNA_358.6	C_unshiu_00056_mRNA_13.1	-
GF0024797	1	1	0	Putative membrane yjcL (2)		Protein of unknown function DUF819 [IPR008537] (2)	scaffold_9_mRNA_358.5	C_unshiu_00056_mRNA_12.1	-
GF0024795	1	1	0	Hypothetical protein (1); Retinol dehydrogenase 14 (1)		NAD(P)-binding domain [IPR016040] (2)	scaffold_9_mRNA_356.8	C_unshiu_01328_mRNA_5.1	-

ID	Num. in <i>C. clementiae</i>	Num. in <i>C. uschii</i>	Num. in <i>P. trifoliate</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. uschii</i>	Members in <i>P. trifoliate</i>
GF0024793	1	1	0	Short-chain dehydrogenase TIC 32, chloroplastic (2)	oxidoreductase activity [GO:0016491 molecular_function] (1); metabolic process [GO:0008052 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_3554.1	C.uschii_01221_mRNA_6.1	-
GF0024790	1	1	0	Putative Prolyl 4-hydroxylase alpha subunit (2)	L-ascorbic 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:0016705 molecular_function] (2); iron ion binding [GO:0005506 molecular_function] (2); oxidoreductase activity [GO:0016491 molecular_function] (1)	ShkT domain [IPR003582] (2); Prolyl 4-hydroxylase, alpha subunit [IPR006620] (2); Oxoglutarate/iron-dependent dioxygenase [IPR005123] (1)	scaffold_9_mRNA_3541.1	C.uschii_01810_mRNA_6.1	-
GF0024789	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3530.1	C.uschii_00045_mRNA_91.1	-
GF0024788	1	1	0	KDEL motif-containing protein 1 (2)		Lipopolysaccharide-modifying protein [IPR006598] (2)	scaffold_9_mRNA_3515.1	C.uschii_00045_mRNA_74.1	-
GF0024785	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_9_mRNA_3499.1	C.uschii_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: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 [IPR000719] (2); Protein kinase, ATP binding site [IPR017441] (2); Leucine-rich repeat domain, L domain-like [IPR026751] (1); Serine-threonine/tyrosine-protein kinase catalytic domain [IPR012451] (1); Serine-threonine/tyrosine-protein kinase, catalytic domain [IPR012451] (1)	scaffold_9_mRNA_3481.1	C.uschii_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 [IPR013149] (2); Alcohol dehydrogenase, N-terminal [IPR013154] (2); Intron C-terminal splicing region [IPR030934] (1); Alcohol dehydrogenase superfamily, zinc-type [IPR000385] (1)	scaffold_9_mRNA_3449.1	C.uschii_00045_mRNA_16.1	-
GF0024780	1	1	0	Hypothetical protein (2)	transferase activity, transferring hexosyl groups [GO:0016758 molecular_function] (2); metabolic process [GO:0008052 biological_process] (2)	UDP-glucuronosyl/UDP-glucosyltransferase [IPR002213] (2)	scaffold_9_mRNA_3445.1	C.uschii_00045_mRNA_12.1	-
GF0024779	1	1	0	Hydroxymethylglutaryl-CoA synthase (2)	catalytic activity [GO:0003824 molecular_function] (2); isoprenoid biosynthetic process [GO:0008299 biological_process] (2); metabolic process [GO:0008052 biological_process] (2); hydroxymethylglutaryl-CoA synthase activity [GO:0004421 molecular_function] (2)	Thiolase-like [IPR016039] (2); Hydroxymethylglutaryl-coenzyme A synthase, N-terminal [IPR013538] (2); Hydroxymethylglutaryl-CoA synthase, eukaryotic [IPR010122] (2); Hydroxymethylglutaryl-coenzyme A synthase, active site [IPR009101] (2); Hydroxymethylglutaryl-coenzyme A synthase C-terminal domain [IPR013746] (2)	scaffold_9_mRNA_3441.1	C.uschii_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.uschii_00045_mRNA_7.1	-
GF0024777	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3432.1	C.uschii_01380_mRNA_5.1	-
GF0024776	1	1	0	Gibberellin receptor GID1, putative (2)	hydrolase activity [GO:0016787 molecular_function] (2); metabolic process [GO:0008052 biological_process] (2)	Lipase, GDGX, putative histidine active site [IPR021688] (2); Alpha/Beta hydrolase fold [IPR029058] (2); Alpha/beta hydrolase fold-3 [IPR013094] (2)	scaffold_9_mRNA_3421.1	C.uschii_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)	Cytochrome P450, E-class, group I [IPR002401] (2); Cytochrome P450 [IPR001128] (2)	scaffold_9_mRNA_3394.1	C.uschii_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 [IPR026751] (2); Protein kinase-like domain [IPR011009] (2); Leucine-rich repeat, typical subtype [IPR003591] (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 4 [IPR025875] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR022900] (1)	scaffold_9_mRNA_3385.1	C.uschii_00182_mRNA_35.1	-
GF0024767	1	1	0	Hypothetical protein (2)		Protein kinase-like domain [IPR011009] (2)	scaffold_9_mRNA_333.1	C.uschii_00085_mRNA_25.1	-
GF0024764	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3319.1	C.uschii_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:0042545 biological_process] (2)	Pectinesterase, Asp active site [IPR033131] (2); Pectin lyase fold [IPR012344] (2); Pectinesterase inhibitor domain [IPR006011] (2); Pectinesterase, catalytic [IPR000070] (2); Pectin lyase fold/vulnence factor [IPR011050] (2); Pectinesterase, Tyr active site [IPR018040] (2)	scaffold_9_mRNA_3312.1	C.uschii_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); polysaccharide binding [GO:0003047 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2)	Serine/threonine-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/dual specificity protein kinase, catalytic domain [IPR022900] (1); Concanavalin A-like lectin/glucanase domain [IPR013320] (1)	scaffold_9_mRNA_3304.1	C.uschii_00252_mRNA_36.1	-
GF0024760	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3302.1	C.uschii_02743_mRNA_1.1	-
GF0024759	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3286.1	C.uschii_00741_mRNA_1.1	-
GF0024758	1	1	0	RIN1 finger and CHY zinc finger domain-containing protein 1 isoform 1 (2)			scaffold_9_mRNA_328.1	C.uschii_00085_mRNA_29.1	-
GF0024757	1	1	0	Acidic endochitinase (2)	carbohydrate metabolic process [GO:005975 biological_process] (2); hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0044553 molecular_function] (2)	Glycoside hydrolase family 18, catalytic domain [IPR011223] (2); Glycoside hydrolase, chitinase active site [IPR01579] (2); Glycoside hydrolase superfamily domain [IPR020463] (2); Glycoside hydrolase, catalytic domain [IPR013781] (1)	scaffold_9_mRNA_3267.1	C.uschii_00453_mRNA_15.1	-
GF0024756	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_326.1	C.uschii_00085_mRNA_31.1	-
GF0024755	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3256.1	C.uschii_00413_mRNA_3.1	-
GF0024754	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3254.1	C.uschii_00161_mRNA_41.1	-
GF0024753	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3238.1	C.uschii_00095_mRNA_28.1	-
GF0024752	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3236.1	C.uschii_00095_mRNA_31.1	-
GF0024748	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3216.1	C.uschii_00095_mRNA_44.1	-
GF0024747	1	1	0	Reverse transcriptase (2)	RNA-directed DNA polymerase [GO:0005508 biological_process] (2)	Reverse transcriptase domain [IPR000477] (2)	scaffold_9_mRNA_3205.1	C.uschii_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); transmembrane transporter activity [GO:0022857 molecular_function] (2); membrane [GO:0016020 cellular_component] (2); transporter activity [GO:0005215 molecular_function] (2); transmembrane transport [GO:0055085 biological_process] (2)	Sugar transporter, conserved site [IPR05829] (2); Major facilitator superfamily domain [IPR020463] (2); Major facilitator, sugar transporter-like [IPR005828] (2); Sugar/inositol transporter [IPR003663] (2)	scaffold_9_mRNA_3203.1	C.uschii_00599_mRNA_18.1	-
GF0024743	1	1	0	DERLIN-1 isoform 1 (2)	serine-type endopeptidase activity [GO:004252 molecular_function] (1); integral component of membrane [GO:0016021 cellular_component] (1)	Derlin [IPR007599] (2); Peptidase S54, rhomboid domain [IPR022764] (1)	scaffold_9_mRNA_3199.1	C.uschii_00599_mRNA_16.1	-
GF0024742	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3192.1	C.uschii_00599_mRNA_11.1	-
GF0024741	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3191.1	C.uschii_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.uschii_00060_mRNA_6.1	-
GF0024738	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3163.1	C.uschii_00060_mRNA_12.1	-
GF0024737	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3154.1	C.uschii_00060_mRNA_20.1	-

ID	Num in <i>C. clementinae</i>	Num in <i>C. acutis</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF0024736	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 kinase domain [IPRO00719] (2); Protein kinase-like domain [IPRO11009] (2); Serine/threonine-protein kinase active site [IPRO08271] (2); PGG domain [IPRO26961] (2)	scaffold_9_mRNA_3153.1	C_unshii_00060_mRNA_2.1	-
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)	Berberine/berberine-like [IPRO12951] (2); FAD-binding, type 2, subdomain 1 [IPRO16167] (2); CO dehydrogenase flavoprotein-like, FAD-binding, subdomain 2 [IPRO16169] (2); FAD linked oxidase, N-terminal [IPRO06094] (2); FAD-binding, type 2 [IPRO16166] (2)	scaffold_9_mRNA_3148.1	C_unshii_00060_mRNA_26.1	-
GF0024734	1	1	0	Tetrapeptide repeat-like superfamily protein (2)	zinc ion binding [GO:0008270 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2)	DYW domain [IPRO32867] (2); Ubiquitin/cytochrome c chaperone/UPF0174 [IPRO21150] (2); Pentapeptide repeat [IPRO02885] (2); Tetrapeptide-like helical domain [IPRO11990] (2)	scaffold_9_mRNA_3139.1	C_unshii_00577_mRNA_11.1	-
GF0024733	1	1	0	FAD-binding Berberine family protein (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); oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2)	FAD-binding, type 2, subdomain 1 [IPRO16167] (2); CO dehydrogenase flavoprotein-like, FAD-binding, subdomain 2 [IPRO16169] (2); FAD linked oxidase, N-terminal [IPRO06094] (2); FAD-binding, type 2 [IPRO16166] (2); Berberine/berberine-like [IPRO12951] (1)	scaffold_9_mRNA_3135.1	C_unshii_00577_mRNA_7.1	-
GF0024732	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3133.1	C_unshii_00577_mRNA_5.1	-
GF0024731	1	1	0	Ankyrin repeat family protein (2)		PGG domain [IPRO26961] (2); Ankyrin repeat-containing domain [IPRO20683] (1)	scaffold_9_mRNA_3129.1	C_unshii_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:0003677 molecular_function] (2)	DNA-binding domain [IPRO16177] (2); AP2/ERF domain [IPRO04171] (2)	scaffold_9_mRNA_3126.1	C_unshii_02129_mRNA_1.1	-
GF0024729	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3124.1	C_unshii_01744_mRNA_1.1	-
GF0024728	1	1	0	Hypothetical protein (2)		Transposase, MuDR, plant [IPRO04332] (2)	scaffold_9_mRNA_3119.1	C_unshii_00504_mRNA_19.1	-
GF0024726	1	1	0	Hypothetical protein (2)	Poly(nucleosidyl) transferase, ribonuclease H-like superfamily protein (1); Putative RNA-directed DNA polymerase (1)	Ribonuclease H-like domain [IPRO12337] (2)	scaffold_9_mRNA_3112.1	C_unshii_00504_mRNA_11.1	-
GF0024724	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3109.1	C_unshii_00504_mRNA_7.1	-
GF0024723	1	1	0	Hypothetical protein (1); Polynucleosidyl transferase, ribonuclease H-like superfamily protein (1)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPRO12337] (2)	scaffold_9_mRNA_3106.1	C_unshii_00504_mRNA_5.1	-
GF0024722	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3100.1	C_unshii_01088_mRNA_3.1	-
GF0024720	1	1	0	Cyclin p4 (2)	protein kinase binding [GO:0019901 molecular_function] (2); regulation of cyclin-dependent protein serine/threonine kinase activity [GO:0000079 biological_process] (2)	Cyclin-like [IPRO13763] (2); Cyclin PHO80-like [IPRO13922] (2)	scaffold_9_mRNA_3093.1	C_unshii_01088_mRNA_9.1	-
GF0024719	1	1	0	YDG domain-containing protein At5g47150 (1); Hypothetical protein (1)	histone binding [GO:0042393 molecular_function] (2)	SRA-YDG [IPRO03105] (2); PUA-like domain [IPRO15947] (2); Reverse transcriptase zinc-binding domain [IPRO26960] (1)	scaffold_9_mRNA_3090.1	C_unshii_01196_mRNA_3.1	-
GF0024718	1	1	0	Protein GIGAS CELL1 (2)	negative regulation of ubiquitin protein ligase activity [GO:190667 biological_process] (1); nucleus [GO:0005634 cellular_component] (1); regulation of nuclear division [GO:0051783 biological_process] (1)	POLYHOME/GIGAS CELL1 [IPRO34590] (1)	scaffold_9_mRNA_3074.1	C_unshii_00115_mRNA_23.1	-
GF0024715	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3065.1	C_unshii_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 [IPRO39960] (2); Ribonuclease H-like domain [IPRO12337] (2); Zinc knuckle CX2CX4HXAC [IPRO25836] (2); Zinc finger, CCHC-type [IPRO01878] (2); Domain of unknown function DUF4285 [IPRO25558] (1)	scaffold_9_mRNA_3045.1	C_unshii_01621_mRNA_4.1	-
GF0024712	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_3037.1	C_unshii_00119_mRNA_5.1	-
GF0024711	1	1	0	Adenylosuccinate synthetase, chloroplast (2)	GTP binding [GO:0005525 molecular_function] (2); adenylosuccinate synthase activity [GO:0006010 molecular_function] (2); purine nucleotide biosynthetic process [GO:0006164 biological_process] (2)	Adenylosuccinate synthetase [IPRO01114] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); Adenylosuccinate synthase, active site [IPRO33128] (2); Adenylosuccinate synthase, GTP-binding site [IPRO18292] (2)	scaffold_9_mRNA_3036.1	C_unshii_00119_mRNA_6.1	-
GF0024710	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPRO12337] (2); T82/DPI/HVA22-related protein [IPRO04345] (1)	scaffold_9_mRNA_3029.1	C_unshii_00119_mRNA_12.1	-
GF0024707	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2998.1	C_unshii_00119_mRNA_41.1	-
GF0024706	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2987.1	C_unshii_01689_mRNA_5.1	-
GF0024705	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2984.1	C_unshii_00751_mRNA_12.1	-
GF0024704	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2983.1	C_unshii_00751_mRNA_11.1	-
GF0024702	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2939.1	C_unshii_01777_mRNA_4.1	-
GF0024701	1	1	0	Truncated RB (1); Hypothetical protein (1)	ADP binding [GO:0043531 molecular_function] (2); DNA binding [GO:0003677 molecular_function] (1); regulation of transcription, DNA-templated [GO:0006355 biological_process] (1); transcription factor activity, sequence-specific DNA binding [GO:0003700 molecular_function] (1)	P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); NB-ARC [IPRO02182] (2); AP2/ERF domain [IPRO04171] (2); DNA-binding domain [IPRO16177] (1)	scaffold_9_mRNA_2931.1	C_unshii_01467_mRNA_2.1	-
GF0024699	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2912.1	C_unshii_00132_mRNA_6.1	-
GF0024698	1	1	0	LRR receptor-like kinase family protein (2)	protein binding [GO:0005515 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 [IPRO13210] (2); Leucine-rich repeat [IPRO01611] (2); Leucine-rich repeat domain, L, domain-like [IPRO32675] (2); Serine-threonine/tyrosine-protein kinase, catalytic domain [IPRO1245] (1); Protein kinase-like domain [IPRO11009] (1)	scaffold_9_mRNA_2903.1	C_unshii_00132_mRNA_9.1	-
GF0024697	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2902.1	C_unshii_00132_mRNA_10.1	-
GF0024695	1	1	0	Fragile histidine triad protein (2)	catalytic activity [GO:0003824 molecular_function] (2)	HIT-like domain [IPRO11146] (2); Histidine triad (HT) protein [IPRO01310] (2); Histidine triad, conserved site [IPRO19808] (2)	scaffold_9_mRNA_2891.1	C_unshii_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 [IPRO00719] (2); Protein kinase-like domain [IPRO11009] (2)	scaffold_9_mRNA_2881.1	C_unshii_00132_mRNA_30.1	-
GF0024693	1	1	0	Hypothetical protein (2)	cysteine-type peptidase activity [GO:0008234 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Transposon, Ent/Spm-like [IPRO04242] (2); Ub1 protease family, C-terminal catalytic domain [IPRO03653] (2)	scaffold_9_mRNA_2880.1	C_unshii_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:0016021 cellular_component] (1); cation transport [GO:0008012 biological_process] (1); transmembrane transport [GO:0055085 biological_process] (1)	Cation efflux protein transmembrane domain [IPRO27469] (1); Cation efflux protein [IPRO02524] (1)	scaffold_9_mRNA_2878.1	C_unshii_00132_mRNA_34.1	-
GF0024691	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2876.1	C_unshii_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 [IPRO02100] (2)	scaffold_9_mRNA_2872.1	C_unshii_01156_mRNA_10.1	-
GF0024689	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2865.1	C_unshii_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 [IPRO02100] (2)	scaffold_9_mRNA_2864.1	C_unshii_00879_mRNA_5.1	-
GF0024687	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2859.1	C_unshii_01550_mRNA_2.1	-
GF0024686	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2857.1	C_unshii_01550_mRNA_4.1	-
GF0024685	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2840.1	C_unshii_01096_mRNA_7.1	-
GF0024681	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2830.1	C_unshii_00451_mRNA_3.1	-

ID	Num. in <i>C. caryophyllata</i>	Num. in <i>C. acanthina</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. caryophyllata</i>	Members in <i>C. acanthina</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_00829_mRNA_1.1	-
GF0024679	1	1	0	Hypothetical protein (2)	protein phosphorylation [GO:0006468 biological_process] (2); protein kinase activity [GO:0004872 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2)	Protein kinase-like domain [IPR011009] (2); Protein kinase domain [IPR000119] (2); Serine-threonine/tyrosine-protein kinase catalytic domain [IPR001245] (1); Serine-threonine/tyrosine-protein kinase, catalytic domain [IPR012451] (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:0006355 biological_process] (2); transcription factor activity, sequence-specific DNA binding [GO:0003700 molecular_function] (2); multicellular organismal 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:0006810 biological_process] (2); ATPase activity [GO:0016887 molecular_function] (2); integral component of membrane [GO:0016021 cellular_component] (2)	AAA+ 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 [IPR017871] (2)	scaffold_9_mRNA_2801.2	C_unshiu_00222_mRNA_15.2	-
GF0024676	1	1	0	Hypothetical protein (2)		Gag-polypeptide of LTR copia-type [IPR029472] (1)	scaffold_9_mRNA_2800.1	C_unshiu_00222_mRNA_14.1	-
GF0024675	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2793.1	C_unshiu_00222_mRNA_7.1	-
GF0024674	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2790.1	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)	Ribonuclease 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 [IPR006088] (2); P-type ATPase [IPR001757] (1); Probable transposase, Pta/En/Spm, plant [IPR004252] (1); Calcium-transporting P-type ATPase, N-terminal autoinhibitory domain [IPR024790] (1); HAD-like domain [IPR023214] (1)	scaffold_9_mRNA_2767.1	C_unshiu_02385_mRNA_1.1	-
GF0024669	1	1	0	Hypothetical protein (2)		Retroviral aspartyl protease [IPR013242] (2); Aspartic peptidase domain [IPR02109] (2)	scaffold_9_mRNA_2757.1	C_unshiu_00645_mRNA_8.1	-
GF0024668	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4216 [IPR02512] (2); Probable transposase, Pta/En/Spm, plant [IPR004252] (2); Domain of unknown function DUF4218 [IPR025452] (1); LOG family [IPR031100] (1); Transposase-associated domain [IPR024880] (1)	scaffold_9_mRNA_2752.1	C_unshiu_02971_mRNA_1.1	-
GF0024666	1	1	0	Hypothetical protein (2)		Endonuclease/exonuclease/phosphatase [IPR005135] (2)	scaffold_9_mRNA_2738.1	C_unshiu_00295_mRNA_15.1	-
GF0024665	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2736.1	C_unshiu_00295_mRNA_13.1	-
GF0024664	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2735.1	C_unshiu_00295_mRNA_12.1	-
GF0024663	1	1	0	Hypothetical protein (2)			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)	scaffold_9_mRNA_2731.1	C_unshiu_00295_mRNA_9.1	-
GF0024661	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2730.1	C_unshiu_00295_mRNA_8.1	-
GF0024660	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_273.1	C_unshiu_00060_mRNA_16.1	-
GF0024659	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_9_mRNA_2727.1	C_unshiu_00295_mRNA_5.1	-
GF0024658	1	1	0	Ribonuclease H protein, putative (1); Hypothetical protein (1)		Reverse transcriptase zinc-binding domain [IPR026960] (2); Reverse transcriptase domain [IPR000477] (1); Chromo domain-like [IPR01697] (1)	scaffold_9_mRNA_2723.1	C_unshiu_00295_mRNA_2.1	-
GF0024657	1	1	0	Hypothetical protein (2)		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)			scaffold_9_mRNA_2715.1	C_unshiu_00331_mRNA_15.1	-
GF0024655	1	1	0	Putative COX1/COX3 intron 2 protein (2)	metabolic process [GO:0008152 biological_process] (2); catalytic activity [GO:0003824 molecular_function] (2); mRNA processing [GO:0006397 biological_process] (2)	Domain X [IPR024937] (2); Ctp/cromotome-like domain [IPR029045] (2); Cromotome superfamily [IPR001753] (2); Reverse transcriptase domain [IPR000477] (2)	scaffold_9_mRNA_2714.1	C_unshiu_00331_mRNA_16.1	-
GF0024654	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2711.1	C_unshiu_00391_mRNA_20.1	-
GF0024653	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_9_mRNA_2705.1	C_unshiu_00391_mRNA_17.1	-
GF0024652	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2703.1	C_unshiu_00391_mRNA_15.1	-
GF0024651	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2702.1	C_unshiu_00391_mRNA_14.1	-
GF0024650	1	1	0	Hypothetical protein (2)		Endonuclease/exonuclease/phosphatase [IPR005135] (2)	scaffold_9_mRNA_2701.1	C_unshiu_00391_mRNA_13.1	-
GF0024649	1	1	0	UDP-glucuronic acid decarboxylase 1 (2)		NAD(P)-binding domain [IPR016040] (2)	scaffold_9_mRNA_270.1	C_unshiu_00036_mRNA_19.1	-
GF0024648	1	1	0	Xyloglucan galactosyltransferase 0 KATAMAR1 (1); Hypothetical protein (1)		Exostosin-like [IPR004263] (2)	scaffold_9_mRNA_2698.1	C_unshiu_00391_mRNA_9.1	-
GF0024647	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2691.1	C_unshiu_00391_mRNA_5.1	-
GF0024646	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2684.1	C_unshiu_01282_mRNA_9.1	-
GF0024645	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2683.1	C_unshiu_01282_mRNA_8.1	-
GF0024644	1	1	0	Phylloplastin (1); Hypothetical protein (1)			scaffold_9_mRNA_268.1	C_unshiu_00036_mRNA_23.1	-
GF0024643	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_266.1	C_unshiu_00093_mRNA_26.1	-
GF0024642	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_266.8	C_unshiu_00290_mRNA_12.1	-
GF0024641	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_264.0	C_unshiu_00444_mRNA_6.1	-
GF0024639	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_262.3	C_unshiu_01247_mRNA_10.1	-
GF0024638	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_262.0	C_unshiu_01247_mRNA_8.1	-
GF0024637	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_261.8	C_unshiu_01247_mRNA_6.1	-
GF0024635	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4283 [IPR025558] (1)	scaffold_9_mRNA_260.1	C_unshiu_00454_mRNA_10.1	-
GF0024634	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2595.1	C_unshiu_00046_mRNA_3.1	-
GF0024633	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2581.1	C_unshiu_00160_mRNA_41.1	-
GF0024632	1	1	0	Hypothetical protein (2)			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 [IPR017853] (2); Glycoside hydrolase family 17 [IPR004900] (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)			scaffold_9_mRNA_2567.1	C_unshiu_00160_mRNA_27.1	-
GF0024629	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2566.1	C_unshiu_00160_mRNA_26.1	-
GF0024628	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2554.1	C_unshiu_01758_mRNA_8.1	-
GF0024625	1	1	0	Hypothetical protein (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)	Protein kinase-like domain [IPR011009] (2); Alpha-Beta hydrolase fold [IPR029058] (2); Alpha/beta hydrolase fold-1 [IPR000073] (2); Epoxide hydrolase-like [IPR006099] (2)	scaffold_9_mRNA_2531.1	C_unshiu_00614_mRNA_23.1	-
GF0024623	1	1	0	Protein FARI-RELATED SEQUENCE 6 (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); zinc ion binding [GO:0008270 molecular_function] (2)	FAR1 DNA binding domain [IPR004330] (2); FHY3/FAR1 family [IPR031032] (2); Zinc finger, SWIM-type [IPR007527] (2); MULE transposase domain [IPR03289] (2); Zinc finger, PMZ-type [IPR006564] (2)	scaffold_9_mRNA_2520.1	C_unshiu_00345_mRNA_15.1	-
GF0024622	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2513.1	C_unshiu_02090_mRNA_2.1	-
GF0024621	1	1	0	Hypothetical protein (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)	Leucine-rich repeat [IPR016111] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); Leucine-rich repeat domain, L domain-like [IPR032925] (2); Leucine-rich repeat, typical subtype [IPR003591] (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)	Ribonuclease H-like domain [IPR012337] (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)	Epoxide hydrolase-like [IPR006099] (2); Alpha/beta hydrolase fold-1 [IPR000073] (2); Alpha/Beta hydrolase fold [IPR029058] (2)	scaffold_9_mRNA_250.1	C_unshiu_00046_mRNA_5.1	-
GF0024615	1	1	0	Non-LTR retroelement reverse 0 transposase-like (1); Hypothetical protein (1)	nucleic acid binding [GO:0003676 molecular_function] (2); DNA binding [GO:0003677 molecular_function] (1); protein dimerization activity [GO:0046983 molecular_function] (1)	Ribonuclease H-like domain [IPR012337] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2); Alcholate-scute transcription factor-related [IPR015660] (1); Myc-type, basic helix-loop-helix (bHLH) domain [IPR011598] (1); TB2/DP1/HA22-related protein [IPR04345] (1)	scaffold_9_mRNA_2468.1	C_unshiu_00011_mRNA_86.1	-



ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF0024522	1	1	0	Glycosylase hydrolase family 28 protein (2)	carbohydrate metabolic process [GO:0005975 biological_process] (2); polysaccharutase activity [GO:0004656 molecular_function] (2)	Protein of unknown function DUF4602 [IPRO2973] (2); Pectin lyase fold virulence factor [IPRO11050] (2); Pectin lyase fold [IPRO12334] (2); Glycosylase hydrolase, family 28 [IPRO0743] (3); Parallel beta-beta repeat [IPRO06626] (2)	scaffold_9_mRNA_2122	C.usmhu_00355_mRNA_232	
GF0024521	1	1	0	Pol polyprotein (1); Copia ltr rider (1)		Reverse transcriptase, RNA-dependent DNA polymerase [IPRO31103] (2) GAG-pro-integrase domain [IPRO25724] (2)	scaffold_9_mRNA_2115.1	C.usmhu_00122_mRNA_30.1	
GF0024520	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2114.1	C.usmhu_00122_mRNA_31.1	
GF0024519	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2108.1	C.usmhu_00122_mRNA_37.1	
GF0024518	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2106.1	C.usmhu_00122_mRNA_39.1	
GF0024517	1	1	0	Glycine hydroxymethyltransferase (2)	L-serine metabolic process [GO:0006563 biological_process] (2); glycine metabolic process [GO:0006544 biological_process] (2); pyridoxal phosphate binding [GO:0030170 molecular_function] (2); transferase activity [GO:0016740 molecular_function] (2); catalytic activity [GO:0003824 molecular_function] (2); glycine hydroxymethyltransferase activity [GO:0004372 molecular_function] (2)	Pyridoxal phosphate-dependent transferase, major region, subdomain 1 [IPRO15421] (2); Serine hydroxymethyltransferase, pyridoxal phosphate binding site [IPRO19798] (2); Pyridoxal phosphate-dependent transferase [IPRO15424] (2); Serine hydroxymethyltransferase [IPRO01085] (2); Pyridoxal phosphate-dependent transferase, subdomain 2 [IPRO15422] (1); Pyridoxal phosphate-dependent transferase, major region, subdomain 2 [IPRO15423] (1)	scaffold_9_mRNA_2103.1	C.usmhu_00122_mRNA_42.1	
GF0024516	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2101.1	C.usmhu_00122_mRNA_44.1	
GF0024515	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2100.1	C.usmhu_00122_mRNA_45.1	
GF0024513	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 [IPRO01878] (1)	scaffold_9_mRNA_2093.1	C.usmhu_00781_mRNA_17.1	
GF0024512	1	1	0	Hypothetical protein (2)	metal ion binding [GO:0046872 molecular_function] (2); metal ion transport [GO:0030001 biological_process] (2)	Heavy metal-associated domain, HMA [IPRO06121] (2)	scaffold_9_mRNA_209.1	C.usmhu_00355_mRNA_20.1	
GF0024511	1	1	0	PR10 protein (2)	defense response [GO:0006952 biological_process] (2); response to biotic stimulus [GO:0009607 biological_process] (2)	Bet v 1 type allergen [IPRO24949] (2); Bet v 1/Major latex protein [IPRO00916] (2); START-like domain [IPRO23393] (2); Major latex protein domain [IPRO24948] (1)	scaffold_9_mRNA_208.1	C.usmhu_00355_mRNA_19.1	
GF0024510	1	1	0	Putative retroelement pol polyprotein (1); Hypothetical protein (1)			scaffold_9_mRNA_2079.1	C.usmhu_01797_mRNA_1.1	
GF0024509	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2075.1	C.usmhu_00268_mRNA_21.1	
GF0024508	1	1	0	Hypothetical protein (2)		Aspartic peptidase domain [IPRO21109] (1)	scaffold_9_mRNA_2073.1	C.usmhu_00268_mRNA_20.1	
GF0024507	1	1	0	Bet v 1 allergen (1); Hypothetical protein (1)	response to biotic stimulus [GO:0009607 biological_process] (1); defense response [GO:0006952 biological_process] (1)	START-like domain [IPRO23393] (2); Bet v 1 type allergen [IPRO24949] (2); Bet v 1/Major latex protein [IPRO00916] (1)	scaffold_9_mRNA_207.1	C.usmhu_00355_mRNA_18.1	
GF0024506	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2065.1	C.usmhu_00268_mRNA_10.1	
GF0024505	1	1	0	6a-hydroxymaackain methyltransferase family protein (2)	O-methyltransferase activity [GO:0008171 molecular_function] (2); protein dimerization activity [GO:0046983 molecular_function] (2); methyltransferase activity [GO:0008168 molecular_function] (2)	S-adenosyl-L-methionine-dependent methyltransferase [IPRO29063] (2); Plant methyltransferase dimerization [IPRO12967] (2); O-methyltransferase COMT-type [IPRO16461] (2); O-methyltransferase, family 2 [IPRO01077] (2); Winged helix-turn-helix DNA-binding domain [IPRO11991] (2)	scaffold_9_mRNA_2064.1	C.usmhu_00268_mRNA_9.1	
GF0024504	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2062.1	C.usmhu_00268_mRNA_7.1	
GF0024503	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508 biological_process] (1); cysteine-type peptidase activity [GO:0008234 molecular_function] (1)	Domain of unknown function DUF4218 [IPRO25432] (2); Domain of unknown function DUF4216 [IPRO25312] (2); Ulp1 protease family, C-terminal catalytic domain [IPRO03653] (1)	scaffold_9_mRNA_2052.1	C.usmhu_00268_mRNA_2.1	
GF0024502	1	1	0	Fra 2 allergen (1); Major allergen Pru ar. putative (1)	response to biotic stimulus [GO:0009607 biological_process] (2); defense response [GO:0006952 biological_process] (2)	Bet v 1 type allergen [IPRO24949] (2); Bet v 1/Major latex protein [IPRO00916] (2); START-like domain [IPRO23393] (2)	scaffold_9_mRNA_205.1	C.usmhu_00355_mRNA_16.1	
GF0024501	1	1	0	Cytoskeleton ribosome 5' monophosphate phosphoribohydrolase (2)		LOG family [IPRO31100] (2)	scaffold_9_mRNA_2045.1	C.usmhu_00094_mRNA_38.1	
GF0024500	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2042.1	C.usmhu_00094_mRNA_35.1	
GF0024499	1	1	0	UV radiation resistance-associated protein (2)			scaffold_9_mRNA_2038.1	C.usmhu_00094_mRNA_31.1	
GF0024498	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2037.1	C.usmhu_00094_mRNA_30.1	
GF0024497	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2034.1	C.usmhu_00094_mRNA_27.1	
GF0024496	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2030.1	C.usmhu_00094_mRNA_24.1	
GF0024495	1	1	0	Putative ULM/C-like DNA repair family protein (2)			scaffold_9_mRNA_2028.1	C.usmhu_00094_mRNA_21.1	
GF0024494	1	1	0	Autophagy protein 5 (2)	autophagy [GO:0006914 biological_process] (2); cytoplasm [GO:0005737 cellular_component] (2); cytoplasm [GO:0005737 cellular_component] (2); autophagy [GO:0006914 biological_process] (2)	Autophagy-related protein 5 [IPRO07239] (2)	scaffold_9_mRNA_2027.1	C.usmhu_00094_mRNA_20.1	
GF0024493	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2023.1	C.usmhu_00094_mRNA_17.1	
GF0024492	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2016.1	C.usmhu_00094_mRNA_7.1	
GF0024491	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2015.1	C.usmhu_00094_mRNA_6.1	
GF0024490	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2012.1	C.usmhu_00094_mRNA_2.1	
GF0024489	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2008.1	C.usmhu_00679_mRNA_3.1	
GF0024488	1	1	0	Alkaline ceramidase 3 (2)	ceramide metabolic process [GO:0006672 biological_process] (2); hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amides [GO:0016811 molecular_function] (2); integral component of membrane [GO:0016021 cellular_component] (2)	Ceramidase [IPRO08901] (2)	scaffold_9_mRNA_2006.1	C.usmhu_00679_mRNA_5.1	
GF0024487	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2004.1	C.usmhu_00679_mRNA_6.1	
GF0024486	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508 biological_process] (2); aspartic-type endopeptidase activity [GO:0004190 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (1); zinc ion binding [GO:0008270 molecular_function] (1)	Viral movement protein [IPRO28919] (2); Aspartic peptidase, active site [IPRO1090] (2); Aspartic peptidase domain [IPRO21109] (1); Zinc finger, CCHC-type [IPRO01878] (1)	scaffold_9_mRNA_2002.1	C.usmhu_00679_mRNA_9.1	
GF0024485	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_2.1	C.usmhu_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:0009607 biological_process] (2)	Bet v 1/Major latex protein [IPRO00916] (2); START-like domain [IPRO23393] (2); Bet v 1 type allergen [IPRO24949] (2); Major latex protein domain [IPRO24948] (1)	scaffold_9_mRNA_198.1	C.usmhu_00355_mRNA_11.1	
GF0024481	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1971.1	C.usmhu_00393_mRNA_16.1	
GF0024480	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1951.1	C.usmhu_00015_mRNA_12.1	
GF0024479	1	1	0	Hypothetical protein (2)		Transposase-associated domain [IPRO29480] (2)	scaffold_9_mRNA_195.1	C.usmhu_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 [IPRO25733] (2); Metallo-dependent phosphatase-like [IPRO29052] (2); Calcineurin-like phosphoesterase domain, Apaf1 type [IPRO04843] (1); Calcineurin-like phosphoesterase domain, Apaf1 type [IPRO04843] (1)	scaffold_9_mRNA_1936.1	C.usmhu_00567_mRNA_1.1	
GF0024475	1	1	0	Hypothetical protein (1); BED zinc finger/hAT family dimerization domain (1)	DNA binding [GO:0003677 molecular_function] (2); nucleic acid binding [GO:0003676 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 [IPRO25525] (2); HAT, C-terminal dimerization domain [IPRO08906] (1); Ribonuclease H-like domain [IPRO12337] (1)	scaffold_9_mRNA_1931.1	C.usmhu_00567_mRNA_7.1	
GF0024474	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1925.1	C.usmhu_00567_mRNA_13.1	
GF0024473	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1918.1	C.usmhu_00170_mRNA_21.1	
GF0024471	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1898.1	C.usmhu_00057_mRNA_65.1	
GF0024470	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1896.1	C.usmhu_00057_mRNA_63.1	
GF0024469	1	1	0	DUF247 domain protein (2)		Protein of unknown function DUF247, plant [IPRO04158] (2)	scaffold_9_mRNA_1892.1	C.usmhu_00701_mRNA_3.1	
GF0024468	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1890.1	C.usmhu_00701_mRNA_5.1	
GF0024467	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1889.1	C.usmhu_00701_mRNA_6.1	
GF0024466	1	1	0	UPO0481 protein (2)		Protein of unknown function DUF247, plant [IPRO04158] (2)	scaffold_9_mRNA_1887.1	C.usmhu_02148_mRNA_5.1	
GF0024465	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1886.1	C.usmhu_02148_mRNA_4.1	
GF0024464	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPRO12337] (1)	scaffold_9_mRNA_1885.1	C.usmhu_02148_mRNA_3.1	
GF0024463	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1884.1	C.usmhu_02148_mRNA_2.1	
GF0024462	1	1	0	Hypothetical protein (2)		Retroviral transposon gag domain [IPRO05162] (2)	scaffold_9_mRNA_1881.1	C.usmhu_00287_mRNA_13.1	
GF0024461	1	1	0	Hypothetical protein (2)		Aspartic peptidase domain [IPRO21109] (1)	scaffold_9_mRNA_1880.1	C.usmhu_00287_mRNA_12.1	

ID	Num in <i>C. celenense</i>	Num in <i>C. acutis</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. celenense</i>	Members in <i>C. acutis</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 [IPRO12337] (2); Reverse transcriptase zinc-binding domain [IPRO26960] (2); Endonuclease/exonuclease/phosphatase [IPRO05135] (2)	scaffold_9_mRNA_1864.1	C_unshiu_00124_mRNA_27.1	-
GF0024459	1	1	0	Hypothetical protein (2)			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); phosphorylation signal transduction system [GO:0000160] biological_process (2)	HAT, C-terminal dimerization domain [IPRO08906] (2); Zinc finger, BED-type [IPRO03656] (2); Ribonuclease H-like domain [IPRO12337] (2); Zinc finger C2H2-type [IPRO13087] (1)	scaffold_9_mRNA_186.1	C_unshiu_00007_mRNA_2.1	-
GF0024456	1	1	0	Hypothetical protein (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)			scaffold_9_mRNA_1843.1	C_unshiu_00351_mRNA_13.1	-
GF0024451	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1838.1	C_unshiu_00015_mRNA_3.1	-
GF0024449	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1832.1	C_unshiu_01152_mRNA_5.1	-
GF0024448	1	1	0	Cytoskinin riboside 5'-monophosphate phosphoribitolhydroxylase (2)			scaffold_9_mRNA_1822.1	C_unshiu_01121_mRNA_7.1	-
GF0024447	1	1	0	Leukocyte receptor cluster member 1 (2)			scaffold_9_mRNA_1815.1	C_unshiu_00323_mRNA_6.1	-
GF0024446	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1813.1	C_unshiu_01046_mRNA_3.1	-
GF0024445	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1808.1	C_unshiu_01596_mRNA_2.1	-
GF0024444	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1807.1	C_unshiu_01596_mRNA_1.1	-
GF0024443	1	1	0	Putative AC transposase (2)	DNA binding [GO:0003677] molecular_function (2); protein dimerization activity [GO:0040693] molecular_function (2); nucleic acid binding [GO:0003676] molecular_function (2)	HAT, C-terminal dimerization domain [IPRO08906] (2); Zinc finger, BED-type [IPRO03656] (2); Ribonuclease H-like domain [IPRO12337] (2); Zinc finger C2H2-type [IPRO13087] (1)	scaffold_9_mRNA_1806.1	C_unshiu_00645_mRNA_13.1	-
GF0024442	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1805.1	C_unshiu_00645_mRNA_14.1	-
GF0024441	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676] molecular_function (2)	Ribonuclease H-like domain [IPRO12337] (2)	scaffold_9_mRNA_1789.1	C_unshiu_00506_mRNA_13.1	-
GF0024440	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515] molecular_function (1)	Transposase-associated domain [IPRO29480] (2); WD40 YVTN repeat-like-containing domain [IPRO15943] (1); WD40-repeat-containing domain [IPRO17986] (1)	scaffold_9_mRNA_1788.1	C_unshiu_00506_mRNA_12.1	-
GF0024439	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1782.1	C_unshiu_00920_mRNA_3.1	-
GF0024438	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1781.1	C_unshiu_00920_mRNA_2.1	-
GF0024437	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_00011_mRNA_1.1	-
GF0024434	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1775.1	C_unshiu_00501_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 [IPRO01005] (2); Myb domain [IPRO17930] (2); Homeobox domain-like [IPRO09057] (1); Homeobox domain-like [IPRO09057] (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)	FAR1 DNA binding domain [IPRO04310] (2); FHY3/FAR1 family [IPRO31052] (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)	regulation of transcription, DNA-templated [GO:0006355] biological_process (2); zinc ion binding [GO:0008270] molecular_function (2)	FHY3/FAR1 family [IPRO31052] (2); Zinc finger, SWIM-type domain [IPRO07527] (2); MULE transposase domain [IPRO18289] (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)			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 [IPRO16177] (1); AP2/ERF domain [IPRO01471] (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_171.1	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:0005840] cellular_component (2); intracellular [GO:0005622] cellular_component (2); translation [GO:0006412] biological_process (2); structural constituent of ribosome [GO:0003735] molecular_function (2)	Ribosomal protein L30e, conserved site [IPRO22991] (2); Ribosomal protein L7AeL30eS12eGadd45 [IPRO04038] (2); 50S ribosomal protein L30e-like [IPRO29046] (2); Ribosomal protein L30e [IPRO00231] (2)	scaffold_9_mRNA_1708.1	C_unshiu_00211_mRNA_2.1	-
GF0024416	1	1	0	Putative non-ATP reverse transcriptase (1); Hypothetical protein (1)	nucleic acid binding [GO:0003676] molecular_function (2)	Reverse transcriptase zinc-binding domain [IPRO26960] (2); Ribonuclease H-like domain [IPRO12337] (2); Domain of unknown function DUF4283 [IPRO25558] (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:0007165] biological_process (1); protein binding [GO:0005515] molecular_function (1)	P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); NB-ARC [IPRO2182] (2); Leucine-rich repeat 3 [IPRO11713] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Toll/interleukin-1 receptor homology (TR) domain [IPRO00157] (1)	scaffold_9_mRNA_1701.1	C_unshiu_00211_mRNA_13.1	-
GF0024414	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1699.1	C_unshiu_00211_mRNA_15.1	-
GF0024413	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676] molecular_function (1)	Reverse transcriptase zinc-binding domain [IPRO26960] (2)	scaffold_9_mRNA_1698.1	C_unshiu_00211_mRNA_16.1	-
GF0024410	1	1	0	E3 ubiquitin-protein ligase (2)	nucleic acid binding [GO:0003676] molecular_function (2); zinc ion binding [GO:0008270] molecular_function (2)	Zinc finger, RING FYVE/PHD-type [IPRO13083] (2); Seven-in-absentia protein, TRAF-like domain [IPRO18121] (2); TRAF-like [IPRO08974] (2); Zinc finger, SIAH-type [IPRO13010] (2); E3 ubiquitin-protein ligase SIN-like [IPRO04162] (2); Zinc finger, RING-type [IPRO01841] (2); SIAH-type domain [IPRO13323] (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 [IPRO25558] (2); Zinc knuckle CX2CX4HX4C [IPRO25836] (2); Zinc finger, CCHC-type [IPRO01878] (2)	scaffold_9_mRNA_1661.1	C_unshiu_00294_mRNA_7.1	-
GF0024407	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1640.1	C_unshiu_00603_mRNA_8.1	-
GF0024406	1	1	0	Hypothetical protein (2)			scaffold_9_mRNA_1638.1	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 amidohydrolyase ytcJ (2)	hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds [GO:0016810] molecular_function (2)	Metal-dependent hydrolase, composite domain [IPRO11059] (2); Amidohydrolyase 3 [IPRO31108] (2); Metal-dependent hydrolase [IPRO32466] (2); YtcJ like [IPRO33932] (1)	scaffold_9_mRNA_1616.1	C_unshiu_00952_mRNA_1.1	-
GF0024399	1	1	0	Hypothetical protein (2)	GTPase activity [GO:0003924] molecular_function (2); signal recognition particle receptor complex [GO:0007875] cellular_component (2); intracellular protein transport [GO:0006886] biological_process (2); GTP binding [GO:0005225] molecular_function (2); signal recognition particle binding [GO:0005047] molecular_function (2); SRP-dependent cotranslational protein targeting to membrane [GO:0006614] biological_process (1)	Signal recognition particle receptor, alpha subunit, N-terminal [IPRO07222] (2); Signal recognition particle, SRP54 subunit, helical bundle [IPRO13822] (1)	scaffold_9_mRNA_1612.1	C_unshiu_00512_mRNA_13.1	-









ID	Num. in <i>C. clementiae</i>	Num. in <i>C. ustinii</i>	Num. in <i>P. trifoliate</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. ustinii</i>	Members in <i>P. trifoliate</i>
GF0024190	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_476.1	C_uustinii_00827_mRNA_16.1	-
GF0024188	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_469.1	C_uustinii_00152_mRNA_4.1	-
GF0024187	1	1	0	Putative nuclease HARB11 (2)			scaffold_8_mRNA_463.1	C_uustinii_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_uustinii_00152_mRNA_23.1	-
GF0024182	1	1	0	Cyclin D (2)	nucleus [GO:0005634] cellular_component (2)		scaffold_8_mRNA_436.1	C_uustinii_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:0055114] biological_process (2); oxidoreductase 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)		scaffold_8_mRNA_421.1	C_uustinii_00152_mRNA_44.1	-
GF0024179	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_408.1	C_uustinii_00152_mRNA_56.1	-
GF0024176	1	1	0	RNA polymerase-associated protein RFP1 like (2)	transcription elongation from RNA polymerase II promoter [GO:0006368] biological_process (2); histone modification [GO:0016570] biological_process (2); Cdc73/Paf1 complex [GO:0016593] cellular_component (2); DNA binding [GO:0003677] molecular_function (2); DNA-templated transcription, initiation [GO:0006552] biological_process (1); nucleus [GO:0005634] cellular_component (1)	Plus-3 domain [IPR004343] (2); RNA polymerase-associated protein Rpf1 [IPR01312] (2); Plus-3 domain, subgroup [IPR018144] (1)	scaffold_8_mRNA_391.1	C_uustinii_00363_mRNA_19.1	-
GF0024175	1	1	0	F-box protein interaction domain protein (2)	protein binding [GO:0005515] molecular_function (2)		scaffold_8_mRNA_388.1	C_uustinii_00363_mRNA_19.1	-
GF0024174	1	1	0	Carboxy-terminal domain cyclin (2)	nucleus [GO:0005634] cellular_component (2)		scaffold_8_mRNA_378.1	C_uustinii_00363_mRNA_30.1	-
GF0024173	1	1	0	Vignin (2)	cysteine-type peptidase activity [GO:0008234] molecular_function (2); proteolysis [GO:0006508] biological_process (2)		scaffold_8_mRNA_376.1	C_uustinii_00363_mRNA_32.1	-
GF0024172	1	1	0	Class II metallothionein-like protein 1A (2)	zinc ion binding [GO:0008270] molecular_function (2)		scaffold_8_mRNA_371.1	C_uustinii_00376_mRNA_12.1	-
GF0024170	1	1	0	SWIB complex, BAF60b domain-containing family protein (2)	protein binding [GO:0005515] molecular_function (2)		scaffold_8_mRNA_365.1	C_uustinii_00024_mRNA_8.1	-
GF0024168	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_361.1	C_uustinii_00376_mRNA_13.1	-
GF0024167	1	1	0	Somatic embryogenesis receptor kinase (2)	transmembrane receptor protein kinase activity [GO:0019199] molecular_function (1)	Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Somatic embryogenesis receptor-like kinase [IPR031048] (1)	scaffold_8_mRNA_356.2	C_uustinii_00024_mRNA_15.1	-
GF0024166	1	1	0	Amino acid permease family protein (2)	amino acid transmembrane transporter activity [GO:0015171] molecular_function (2); amino acid transmembrane transport [GO:0003333] biological_process (2); membrane [GO:0016020] cellular_component (2)	Amino acid polyamine transporter I [IPR002293] (2)	scaffold_8_mRNA_351.1	C_uustinii_00024_mRNA_18.1	-
GF0024160	1	1	0	High chlorophyll fluorescence phenotype 173 protein (2)			scaffold_8_mRNA_324.1	C_uustinii_00211_mRNA_24.1	-
GF0024158	1	1	0	Laccase (2)	lignin catabolic process [GO:0046274] biological_process (2); hydroquinone:oxygen oxidoreductase activity [GO:0052716] molecular_function (2); oxidation-reduction process [GO:0055114] biological_process (2); oxidoreductase activity [GO:0016491] molecular_function (2); proplastid [GO:0048046] cellular_component (2); copper ion binding [GO:0005507] molecular_function (2)	Multicopper oxidase, copper-binding site [IPR023255] (2); Multicopper oxidase, type 3 [IPR011707] (2); Multicopper oxidase, conserved site [IPR033138] (2); Laccase [IPR011761] (2); Multicopper oxidase, type 2 [IPR011706] (2); Multicopper oxidase, type 1 [IPR011712] (2); Cupredoxin [IPR008972] (2); Laccase, third cupredoxin domain [IPR034289] (1); Laccase, first cupredoxin domain [IPR034288] (1); Laccase, second cupredoxin domain [IPR034285] (1)	scaffold_8_mRNA_322.1	C_uustinii_00271_mRNA_23.1	-
GF0024156	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_320.1	C_uustinii_00024_mRNA_45.1	-
GF0024155	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_319.1	C_uustinii_00024_mRNA_110.1	-
GF0024151	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_314.9.1	C_uustinii_00021_mRNA_70.1	-
GF0024150	1	1	0	Transcription factor MYB98 (1); Hypothetical protein (1)	DNA binding [GO:0003677] molecular_function (1)	SANT/Myb domain [IPR001005] (1); Myb domain [IPR017930] (1); Homeobox domain-like [IPR009057] (1)	scaffold_8_mRNA_314.5.1	C_uustinii_00021_mRNA_66.1	-
GF0024149	1	1	0	Thioesterase superfamily protein (2)		HotDog domain [IPR029069] (2); Thioesterase domain [IPR006853] (2)	scaffold_8_mRNA_312.7.1	C_uustinii_00021_mRNA_49.1	-
GF0024148	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508] biological_process (2); cysteine-type peptidase activity [GO:0008234] molecular_function (2)		scaffold_8_mRNA_312.1.1	C_uustinii_00021_mRNA_43.1	-
GF0024147	1	1	0	Putative sugar phosphate/phosphate translocator (2)			scaffold_8_mRNA_311.4.1	C_uustinii_00021_mRNA_35.1	-
GF0024145	1	1	0	UDP-glucuronosyl/UDP-glucosyl transferase family protein (2)	metabolic process [GO:0008152] biological_process (2); transferase activity, transferring hexosyl groups [GO:0016758] molecular_function (2); iron ion binding [GO:0005506] molecular_function (1); heme binding [GO:0020307] 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-glucuronosyl/UDP-glucosyltransferase [IPR002213] (2); SANT/Myb domain [IPR001005] (1); Myb domain [IPR017930] (1); Homeobox domain-like [IPR009057] (1); HotDog domain [IPR029069] (2); Thioesterase domain [IPR006853] (2); UDP-glucuronosyl/UDP-glucosyltransferase [IPR002213] (2); Cytochrome P450, E-class, group I [IPR024011] (1); Cytochrome P450 [IPR01128] (1)	scaffold_8_mRNA_310.4.1	C_uustinii_00021_mRNA_24.1	-
GF0024144	1	1	0	Copper transporter (2)	copper ion transmembrane transport [GO:0035434] biological_process (2); integral component of membrane [GO:0016021] cellular_component (2); copper ion transmembrane transporter activity [GO:0005375] molecular_function (2)	Ctr copper transporter [IPR007274] (2)	scaffold_8_mRNA_308.3.1	C_uustinii_00117_mRNA_27.1	-
GF0024143	1	1	0	Cucurmin (1); Hypothetical protein (1)	serine-type endopeptidase activity [GO:0001625] molecular_function (1); proteolysis [GO:0006508] biological_process (1)	Peptidase S8 propeptide/proteinase inhibitor 9 [IPR010259] (1); Peptidase S8/S53 domain [IPR000209] (1); Peptidase S8, subtilisin-related [IPR015500] (1)	scaffold_8_mRNA_307.4.1	C_uustinii_00117_mRNA_38.1	-
GF0024142	1	1	0	DNA-directed RNA polymerase II non-catalytic subunit (2)	nucleic acid binding [GO:0003676] molecular_function (2); transcription, DNA-templated [GO:0006351] biological_process (2); DNA-directed RNA polymerase activity [GO:0003999] molecular_function (1); DNA-directed 5'-3' RNA polymerase activity [GO:0003899] molecular_function (1)	S1 domain [IPR03029] (2); RNA polymerase Rpb7, N-terminal [IPR005575] (2); RNA polymerase activity, DNA-directed, OB-fold [IPR012340] (2)	scaffold_8_mRNA_306.7.1	C_uustinii_00117_mRNA_48.1	-
GF0024141	1	1	0	Hypothetical protein (2)	metabolic process [GO:0008152] biological_process (1); oxidoreductase activity [GO:0016491] molecular_function (1)	NAD(P)-binding domain [IPR016040] (2); Short-chain dehydrogenase/reductase SDR [IPR002190] (1)	scaffold_8_mRNA_305.5.1	C_uustinii_00117_mRNA_59.1	-
GF0024140	1	1	0	Plastid transcriptionally active 16 (2)			scaffold_8_mRNA_305.0.1	C_uustinii_00117_mRNA_62.1	-
GF0024139	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_303.6.1	C_uustinii_00251_mRNA_43.1	-
GF0024138	1	1	0	Hypothetical protein (2)			scaffold_8_mRNA_303.5.1	C_uustinii_02529_mRNA_5.1	-













ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliate</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliate</i>
GF0023755	1	1	0	Transcription factor (2)		Ternary complex factor MIF1, leucine-zipper [IPRO23757] (2); Domain of unknown function DUF547 [IPRO06869] (2)	scaffold_7_mRNA_427.1	C_unshiu_00084_mRNA_38.1	-
GF0023750	1	1	0	Methyltransferase (1); Methyl esterase 10, putative (1)		Alpha/Beta hydrolase fold [IPRO29058] (2); Alpha/beta hydrolase fold 4 [IPRO00073] (1)	scaffold_7_mRNA_397.1	C_unshiu_02661_mRNA_2.1	-
GF0023746	1	1	0	TFR domain containing protein (1); Hypothetical protein (1)	protein binding [GO:0005515]	Tetratricopeptide-like helical domain [IPRO11990] (2); Tetratricopeptide repeat [IPRO19734] (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:0016021 cellular_component] (2)	Cold-regulated 413 protein [IPRO08892] (2)	scaffold_7_mRNA_375.1	C_unshiu_00025_mRNA_70.1	-
GF0023736	1	1	0	Septum formation protein Maf (2)	activity [GO:0047429]	Maf-like protein [IPRO03697] (2); Inositol phosphate pyrophosphatase-like [IPRO29001] (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)	Mye-type, basic helix-loop-helix (bHLH) domain [IPRO11598] (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 [IPRO04952] (2)	scaffold_7_mRNA_279.1	C_unshiu_00289_mRNA_15.1	-
GF0023729	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_278.1	C_unshiu_00001_mRNA_409.1	-
GF0023728	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_271.3	C_unshiu_01382_mRNA_10.1	-
GF0023727	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_270.7	C_unshiu_01382_mRNA_4.1	-
GF0023726	1	1	0	Hypothetical protein (1); S0S ribosomal protein L23 (1)	nucleotide binding [GO:0000166 molecular_function] (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)	Ribosomal protein L25.L23 [IPRO13025] (1); Nucleotide-binding alpha-beta plat domain [IPRO12677] (1); Ribosomal protein L23.L15e core domain [IPRO12678] (1)	scaffold_7_mRNA_2695.1	C_unshiu_00622_mRNA_11.1	-
GF0023724	1	1	0	Hypothetical protein (2)		Reverse transcriptase domain [IPRO00477] (1)	scaffold_7_mRNA_2681.1	C_unshiu_00940_mRNA_6.1	-
GF0023723	1	1	0	Protein spintin (2)	transmembrane transport [GO:0055085 biological_process] (2); integral component of membrane [GO:0016021 cellular_component] (2)	Major facilitator superfamily [IPRO11701] (2); Major facilitator superfamily domain [IPRO20846] (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	-
GF0023720	1	1	0	Disease resistance protein (2)	ADP binding [GO:0043531 molecular_function] (2)	P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); NB-ARC [IPRO02182] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Winged helix-turn-helix DNA-binding domain [IPRO11991] (1)	scaffold_7_mRNA_2651.1	C_unshiu_01391_mRNA_3.1	-
GF0023719	1	1	0	Hypothetical protein (2)			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)	ADP binding [GO:0043531 molecular_function] (2)	P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); NB-ARC [IPRO02182] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Winged helix-turn-helix DNA-binding domain [IPRO11991] (1)	scaffold_7_mRNA_2649.1	C_unshiu_02682_mRNA_3.1	-
GF0023717	1	1	0	Hypothetical protein (2)	copper ion binding [GO:0005507 molecular_function] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2)	Multicopper oxidase, type 2 [IPRO11706] (2); Cupredoxin [IPRO08972] (2)	scaffold_7_mRNA_2632.1	C_unshiu_02082_mRNA_1.1	-
GF0023716	1	1	0	Hypothetical protein (2)	copper ion binding [GO:0005507 molecular_function] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2)	Cupredoxin [IPRO08972] (2); Multicopper oxidase, type 2 [IPRO11706] (2)	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 [IPRO00308] (2); 14-3-3 domain [IPRO23414] (2); Myo-inositol-1-phosphate synthase, GIAPDH-like [IPRO13021] (1)	scaffold_7_mRNA_2623.1	C_unshiu_00760_mRNA_15.1	-
GF0023714	1	1	0	Hypothetical protein (2)		Gag-polyprotein of LTR copia-type [IPRO29472] (1)	scaffold_7_mRNA_2615.1	C_unshiu_00519_mRNA_6.1	-
GF0023713	1	1	0	Aspartic protease-like protein 1 (2)	proteolysis [GO:0006508 biological_process] (2); aspartic-type endopeptidase activity [GO:0004190 molecular_function] (2)	Aspartic peptidase domain [IPRO21109] (2); Peptidase family A1 domain [IPRO33121] (2); Aspartic peptidase A1 family [IPRO01461] (2); Xylanase inhibitor, N-terminal [IPRO32861] (2); Xylanase inhibitor, C-terminal [IPRO32799] (2); Aspartic peptidase, active site [IPRO01969] (2); Pepsin-like domain [IPRO34164] (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)		GAG-pre-integrase domain [IPRO25724] (1)	scaffold_7_mRNA_2569.1	C_unshiu_00454_mRNA_2.1	-
GF0023707	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2566.1	C_unshiu_00454_mRNA_5.1	-
GF0023705	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2548.1	C_unshiu_00454_mRNA_19.1	-
GF0023703	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4283 [IPRO25558] (2)	scaffold_7_mRNA_2527.1	C_unshiu_00245_mRNA_19.1	-
GF0023701	1	1	0	Hypothetical protein (2)	iron ion binding [GO:0005506 molecular_function] (1); heme 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)	Cytochrome P450 [IPRO01128] (1)	scaffold_7_mRNA_2520.1	C_unshiu_01469_mRNA_2.1	-
GF0023700	1	1	0	Somatic embryogenesis receptor kinase (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:0004672 molecular_function] (2)	Protein kinase-like domain [IPRO11009] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Protein kinase domain [IPRO00719] (2); Leucine-rich repeat [IPRO01611] (2); Serine/threonine-protein kinase, active site [IPRO08271] (2); Protein kinase, ATP binding site [IPRO17441] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPRO13210] (2); Leucine-rich repeat, typical subtype [IPRO03591] (1); Concansolin A-like lectin glucanase domain [IPRO13320] (1); Serine-threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPRO22290] (1)	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 [IPRO32675] (2); Winged helix-turn-helix DNA-binding domain [IPRO11991] (1); NB-ARC [IPRO02182] (1)	scaffold_7_mRNA_2486.1	C_unshiu_00468_mRNA_14.1	-
GF0023694	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPRO12337] (1)	scaffold_7_mRNA_2485.1	C_unshiu_00468_mRNA_15.1	-
GF0023693	1	1	0	RPM1-interacting protein 4 (RIN4) family protein (2)			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] (2); zinc ion binding [GO:0008270 molecular_function] (2)	Zinc finger, CCHC-type [IPRO01878] (2)	scaffold_7_mRNA_2456.1	C_unshiu_00566_mRNA_18.1	-
GF0023690	1	1	0	Hypothetical protein (2)		High mobility group box domain [IPRO09071] (1)	scaffold_7_mRNA_2455.1	C_unshiu_00566_mRNA_17.1	-
GF0023688	1	1	0	Mechanosensitive ion channel protein (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 MscS [IPRO06685] (2); EF-hand domain [IPRO02048] (2); LSM domain [IPRO10920] (2); Mechanosensitive ion channel MscS-like, plants/fungi [IPRO16688] (2); EF-hand domain pair [IPRO11992] (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 biological_function] (2); regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); sequence-specific DNA binding [GO:0043565 molecular_function] (2)	WRKY domain [IPRO03657] (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. caryophyllata</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. caryophyllata</i>	Members in <i>C. acutis</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 (2)			scaffold_7_mRNA_2108.1	C_unshiu_01722_mRNA_4.1	-
GF0023621	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1); zinc ion binding [GO:0008270 molecular_function] (1) heme binding [GO:0020037 molecular_function] (2); iron ion 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:0055114 biological_process] (2)	Zinc finger, CCHC-type [IPRO01878] (1) scaffold_7_mRNA_2107.1	C_unshiu_00968_mRNA_2.1	-	
GF0023620	1	1	0	Flavonoid 3'-monooxygenase (1); Flavonoid 3-monooxygenase (1)		Cytochrome P450 [IPRO01128] (2); Cytochrome P450, E-class, group 1 [IPRO02401] (1)	scaffold_7_mRNA_2104.1	C_unshiu_00968_mRNA_3.1	-
GF0023619	1	1	0	RNA-binding protein with multiple splicing 2 (2)	nucleic acid binding [GO:0003676 molecular_function] (2); nucleotide binding [GO:0000166 molecular_function] (1) 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)	RNA recognition motif domain [IPRO00594] (2); Nucleotide-binding alpha-beta sheet domain [IPRO12677] (1)	scaffold_7_mRNA_2101.1	C_unshiu_00968_mRNA_7.1	-
GF0023618	1	1	0	Flavonoid 3'-monooxygenase (2)		Cytochrome P450, E-class, group 1 [IPRO02401] (2); Cytochrome P450, conserved site [IPRO17922] (2); Cytochrome P450 [IPRO01128] (2)	scaffold_7_mRNA_2099.1	C_unshiu_00968_mRNA_13.1	-
GF0023617	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:0055114 biological_process] (2); oxidoreductase 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-isomer specific 2-hydroxyacid dehydrogenase, catalytic domain [IPRO0139] (2); D-isomer specific 2-hydroxyacid dehydrogenase, NAD-binding domain conserved site [IPRO29753] (2); ACT domain [IPRO02912] (2); D-isomer specific 2-hydroxyacid dehydrogenase, NAD-binding domain [IPRO06140] (2); D-3-phosphoglycerate dehydrogenase [IPRO0236] (2); D-isomer specific 2-hydroxyacid dehydrogenase, NAD-binding domain conserved site 1 [IPRO29752] (2); Allosteric substrate binding domain [IPRO29009] (2); NAD(P)-binding domain [IPRO16040] (2)	scaffold_7_mRNA_2097.1	C_unshiu_02401_mRNA_1.1	-
GF0023616	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, I. domain-like [IPRO32675] (2); Leucine-rich repeat, typical subtype [IPRO03591] (2); Leucine-rich repeat [IPRO01611] (2); NB-ARC [IPRO02182] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); Winged helix-turn-helix DNA-binding domain [IPRO11991] (1)	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)		scaffold_7_mRNA_2084.1	C_unshiu_02972_mRNA_1.1	-
GF0023612	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2061.1	C_unshiu_00703_mRNA_14.1	-
GF0023611	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_2056.1	C_unshiu_01521_mRNA_3.1	-
GF0023610	1	1	0	Hypothetical protein (2)	heme binding [GO:0020037 molecular_function] (2); iron ion binding [GO:0005506 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:0016705 molecular_function] (2)	Cytochrome P450 [IPRO01128] (2); Domain of unknown function DUF4216 [IPRO25312] (2); Cytochrome P450, E-class, group 1 [IPRO02401] (1); Domain of unknown function DUF4218 [IPRO25452] (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)	ion transport [GO:0006811 biological_process] (2); transmembrane transport [GO:0055086 biological_process] (2); ion channel activity [GO:0005216 molecular_function] (2); membrane [GO:0016020 cellular_component] (2) ATPase activity [GO:0016887 molecular_function] (2); integral component of membrane [GO:0016021 cellular_component] (2); transport [GO:0006810 biological_process] (2); ATPase activity, coupled to transmembrane movement of substances [GO:0042626 molecular_function] (2); transmembrane transport [GO:0055085 biological_process] (2); ATP binding [GO:0005524 molecular_function] (2)	Cyclic nucleotide-binding domain [IPRO00955] (2); Brink-like jelly roll fold [IPRO14710] (2); Cyclic nucleotide-binding-like [IPRO18490] (2); Ion transport domain [IPRO05821] (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)		ABC transporter, conserved site [IPRO17871] (2); ABC transporter-like [IPRO04349] (2); ABC transporter type 1, transmembrane domain [IPRO11527] (2); AAA+ ATPase domain [IPRO03593] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2)	scaffold_7_mRNA_1993.1	C_unshiu_01243_mRNA_5.1	-
GF0023600	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1989.1	C_unshiu_00637_mRNA_12.1	-
GF0023598	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_198.1	C_unshiu_00218_mRNA_17.1	-
GF0023596	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_198.1	C_unshiu_00884_mRNA_8.1	-
GF0023595	1	1	0	Disease resistance RPS2-like protein (1); Hypothetical protein (1)	ADP binding [GO:0043531 molecular_function] (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)	WD40-YVTN repeat-like-containing domain [IPRO15943] (2); WD40 repeat-containing domain [IPRO17986] (2) Leucine-rich repeat-containing N-terminal, plant-type [IPRO13210] (2); Leucine-rich repeat [IPRO01611] (2); Leucine-rich repeat domain, I. domain-like [IPRO32675] (2); Leucine-rich repeat, typical subtype [IPRO03591] (2)	scaffold_7_mRNA_1936.1	C_unshiu_01836_mRNA_1.1	-
GF0023590	1	1	0	Verticillium wilt resistance-like protein (2)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat [IPRO01611] (2); Leucine-rich repeat domain, I. domain-like [IPRO32675] (2); Leucine-rich repeat, typical subtype [IPRO03591] (2)	scaffold_7_mRNA_1932.1	C_unshiu_01728_mRNA_3.1	-
GF0023589	1	1	0	Hypothetical protein (2)		Iron hydrogenase [IPRO09016] (2); Iron hydrogenase, small subunit [IPRO03149] (2); Iron hydrogenase, large subunit, C-terminal [IPRO04108] (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)	ATP binding [GO:000524 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2); protein serine/threonine kinase activity [GO:0004674 molecular_function] (1)	Protein kinase-like domain [IPRO11009] (2); Protein kinase domain [IPRO00719] (2); WD40-repeat-containing domain [IPRO17986] (2); WD40 repeat [IPRO01680] (2); Serine/threonine-protein kinase, active site [IPRO08271] (2); WD40-YVTN repeat-like-containing domain [IPRO15943] (2); Concavalin A-like lectin/glucanase domain [IPRO13320] (1); Leucine-rich repeat domain, I. domain-like [IPRO32675] (1); Leucine-rich repeat [IPRO01611] (1); Serine-threonine/tyrosine-protein kinase catalytic domain [IPRO1245] (1); Serine-threonine/tyrosine-protein kinase, catalytic domain [IPRO1245] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPRO2290] (1); S-locus receptor kinase, C-terminal [IPRO21820] (1)	scaffold_7_mRNA_1920.1	C_unshiu_00344_mRNA_14.1	-
GF0023587	1	1	0	RNA polymerase I-specific transcription initiation factor RRNS (2)		RNA polymerase I specific transcription initiation factor RRNS [IPRO07991] (2)	scaffold_7_mRNA_191.1	C_unshiu_00706_mRNA_7.1	-
GF0023586	1	1	0	Hypothetical protein (2)		Plant self-incompatibility S1 [IPRO10264] (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_00301_mRNA_25.1	-
GF0023583	1	1	0	UPP0481 plant-like protein (2)		Protein of unknown function DUF247, plant [IPRO04158] (2)	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)	Ankyrin repeat-containing domain [IPRO20853] (2); RGG domain [IPRO26961] (2); Ankyrin repeat [IPRO02110] (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)	P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); NB-ARC [IPRO02182] (2); Winged helix-turn-helix DNA-binding domain [IPRO11991] (1); AAA+ ATPase domain [IPRO03593] (1)	scaffold_7_mRNA_1843.1	C_unshiu_02601_mRNA_4.1	-
GF0023580	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); transcription cofactor activity [GO:0003712 molecular_function] (2)	Coactivator CBP, KIX domain [IPRO03101] (2)	scaffold_7_mRNA_1841.1	C_unshiu_02601_mRNA_1.1	-
GF0023579	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1839.1	C_unshiu_01605_mRNA_7.1	-

ID	Num. in <i>C. caryophyllata</i>	Num. in <i>C. acutata</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. caryophyllata</i>	Members in <i>C. acutata</i>	Members in <i>P. trifoliata</i>
GF0023578	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPR032675] (1)	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)	Protasein inhibitor I3, Kunitz legume [IPR002160] (2); Kunitz 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] (2)	scaffold_7_mRNA_1744.1	C.unshiu_00460_mRNA_13.1	-
GF0023571	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1709.1	C.unshiu_00877_mRNA_7.1	-
GF0023569	1	1	0	Disease resistance protein RFL1, putative (1); Disease resistance RPS5-like protein (1)	protein binding [GO:0005515 molecular_function] (2); ADP binding [GO:0043531 molecular_function] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC [IPR002182] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_7_mRNA_1683.1	C.unshiu_00352_mRNA_13.1	-
GF0023566	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1634.1	C.unshiu_00429_mRNA_4.1	-
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)	FHY3/FAR1 family [IPR031052] (2); Zinc finger, PMZ-type [IPR006564] (2); Zinc finger, SWIM-type [IPR007527] (2)	scaffold_7_mRNA_1629.1	C.unshiu_00352_mRNA_18.1	-
GF0023563	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); Endonuclease/exonuclease/phosphatase [IPR00135] (2); Zinc knuckle CXXCXXHXK [IPR025836] (2); Zinc finger, CCHC-type [IPR001876] (2); Ribonuclease H-like domain [IPR012337] (1); Reverse transcriptase zinc-binding domain [IPR026960] (1)	scaffold_7_mRNA_1590.1	C.unshiu_00404_mRNA_8.1	-
GF0023562	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1578.1	C.unshiu_00404_mRNA_20.1	-
GF0023561	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (1)	Reverse transcriptase zinc-binding domain [IPR026960] (2); Endonuclease/exonuclease/phosphatase [IPR00135] (2); Domain of unknown function DUF4283 [IPR025558] (1); Ribonuclease H-like domain [IPR012337] (2); Zinc finger, CCHC-type [IPR001876] (1)	scaffold_7_mRNA_1569.1	C.unshiu_01362_mRNA_6.1	-
GF0023559	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1544.1	C.unshiu_01309_mRNA_11.1	-
GF0023555	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1525.1	C.unshiu_02525_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)	Leucine-rich repeat domain, L domain-like [IPR032675] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); NB-ARC [IPR002182] (2); A-A-A-ATPase domain [IPR003591] (1); Leucine-rich repeat [IPR001611] (1)	scaffold_7_mRNA_1517.1	C.unshiu_00451_mRNA_8.1	-
GF0023551	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1506.1	C.unshiu_00451_mRNA_19.1	-
GF0023550	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1493.1	C.unshiu_01150_mRNA_4.1	-
GF0023549	1	1	0	Boron transporter (2)	anion 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)	Bicarbonate transporter, C-terminal [IPR011531] (2); Bicarbonate transporter, eukaryotic [IPR003020] (2)	scaffold_7_mRNA_1491.1	C.unshiu_01150_mRNA_2.1	-
GF0023548	1	1	0	ECA1 gametogenesis related family (1); Egg cell-secreted protein 1.4 (1)			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] (2); Alpha-beta hydrolase fold [IPR029058] (1); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	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 ion transmembrane transporter activity [GO:0016098 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)			scaffold_7_mRNA_1439.1	C.unshiu_00975_mRNA_1.1	-
GF0023542	1	1	0	Hypothetical protein (2)	polysaccharide binding [GO:0030247 molecular_function] (2)	Wall-associated receptor kinase, galacturonan-binding domain [IPR025287] (2)	scaffold_7_mRNA_1417.1	C.unshiu_00165_mRNA_16.1	-
GF0023541	1	1	0	Auxin-induced protein IAA6 (2)	protein binding [GO:0005515 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 [IPR033389] (1)	scaffold_7_mRNA_1403.1	C.unshiu_00496_mRNA_5.1	-
GF0023539	1	1	0	Putative glycosyltransferase yplH (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:0005515 molecular_function] (2); ATP binding [GO:000524 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2)	Glycosyl transferase, family 1 [IPR001296] (2); Protein kinase-like domain [IPR011009] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Protein kinase domain [IPR000719] (2); Leucine-rich repeat [IPR001611] (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, typical subtype [IPR003591] (1); Concavalin A-like lectin glucanase domain [IPR013320] (1); Serine/threonine/tyrosine-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)			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:0005515 molecular_function] (2); protein kinase activity [GO:0004672 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2); ATP binding [GO:000524 molecular_function] (2)	Leucine-rich repeat domain, L domain-like [IPR032675] (2); Protein kinase-like domain [IPR011009] (2); Leucine-rich repeat, typical subtype [IPR003591] (2); Protein kinase domain [IPR000719] (2); Leucine-rich repeat [IPR001611] (2); Serine/threonine-protein kinase, active site [IPR008271] (2); Protein kinase, ATP binding site [IPR017441] (2); Concavalin A-like lectin glucanase domain [IPR013320] (1); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (1); Serine/threonine/tyrosine-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)			scaffold_7_mRNA_1372.1	C.unshiu_01521_mRNA_8.1	-
GF0023534	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1367.1	C.unshiu_02144_mRNA_2.1	-
GF0023533	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1364.1	C.unshiu_00982_mRNA_2.1	-
GF0023532	1	1	0	RNA-dependent RNA polymerase 1c (2)	RNA-directed RNA polymerase activity [GO:0003968 molecular_function] (1); RNA-directed 5'-3' RNA polymerase activity [GO:0003968 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:005114 biological_process] (2); flavin adenine dinucleotide binding [GO:0050660 molecular_function] (2); catalytic activity [GO:0003824 molecular_function] (2); oxidoreductase activity, acting on CH-OH group of donors [GO:0016614 molecular_function] (2)	Berberine/berberine-like [IPR012951] (2); FAD-binding, type 2, subdomain 1 [IPR016177] (2); CO dehydrogenase flavoprotein-like, FAD-binding, subdomain 2 [IPR016169] (2); FAD linked 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)			scaffold_7_mRNA_1357.1	C.unshiu_00595_mRNA_29.1	-
GF0023528	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1358.1	C.unshiu_01983_mRNA_2.1	-
GF0023526	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1317.1	C.unshiu_00269_mRNA_33.1	-
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); Metalloenzyme, Lys/S/M16 peptidase-like [IPR011249] (1)	scaffold_7_mRNA_1311.1	C.unshiu_01958_mRNA_4.1	-
GF0023524	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1310.1	C.unshiu_01958_mRNA_3.1	-
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); FARI DNA binding domain [IPR040330] (1)	scaffold_7_mRNA_1307.1	C.unshiu_00530_mRNA_3.1	-
GF0023522	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1306.1	C.unshiu_00004_mRNA_160.1	-
GF0023521	1	1	0	Hypothetical protein (2)			scaffold_7_mRNA_1273.1	C.unshiu_00221_mRNA_44.1	-





ID	Num. in <i>C. caryotactis</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliate</i>	Note	GO	InterPro	Members in <i>C. caryotactis</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliate</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 [IPRO1282] (2); Glucose-6-phosphate dehydrogenase, C-terminal [IPRO22675] (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 [IPRO06734] (2)	scaffold_6_mRNA_309.1	C_unshiu_01082_mRNA_4.1	-
GF0023346	1	1	0	Hypothetical protein (2)		Domain unknown function DUF295 [IPRO05174] (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 [IPRO08271] (2); Protein kinase, ATP binding site [IPRO17441] (2); Protein kinase-like domain [IPRO11009] (2); Protein kinase domain [IPRO00719] (2); Serine/threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (1); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPRO1245] (1); Concavalin A-like lectin/glucanase domain [IPRO13320] (1)	scaffold_6_mRNA_306.1	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-like domain [IPRO11009] (2); Serine/threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (1); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPRO1245] (1); Concavalin A-like lectin/glucanase domain [IPRO13320] (1)	scaffold_6_mRNA_305.1	C_unshiu_00135_mRNA_16.1	-
GF0023342	1	1	0	Caffeic acid O-methyltransferase (2)	O-methyltransferase activity [GO:0008171 molecular_function] (2); protein dimerization activity [GO:0046983 molecular_function] (2); methyltransferase activity [GO:0006168 molecular_function] (2)	O-methyltransferase, family 2 [IPRO1077] (2); Winged helix-turn-helix DNA-binding domain [IPRO11991] (2); O-methyltransferase COMT-type [IPRO14641] (2); Plant methyltransferase dimerization [IPRO2967] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPRO29063] (2)	scaffold_6_mRNA_304.1	C_unshiu_02673_mRNA_2.1	-
GF0023341	1	1	0	Polypyridyl alcohol dehydrogenase-like protein (2)		Pyrolo-quinoline quinone beta-propeller repeat [IPRO1391] (2); Quinoprotein alcohol dehydrogenase-like superfamily [IPRO11047] (2); Pyrolo-quinoline quinone repeat [IPRO2372] (2); Quinoprotein alcohol dehydrogenase-like domain [IPRO27295] (1)	scaffold_6_mRNA_303.1	C_unshiu_00135_mRNA_40.1	-
GF0023339	1	1	0	Hypothetical protein (1); Spo11-3/RM2/Bias5/Top6A3 vegetative topoisomerase VIA (1)	DNA binding [GO:0003677 molecular_function] (2); chromosome [GO:0005694 cellular_component] (2); DNA catabolic process, endonucleolytic [GO:000737 biological_process] (2); DNA topoisomerase type II (ATP-hydrolyzing) activity [GO:0003918 molecular_function] (1); DNA metabolic process [GO:0006259 biological_process] (1); DNA topological change [GO:0006055 biological_process] (1); ATP binding [GO:0005524 molecular_function] (1); catalytic activity [GO:0003524 molecular_function] (1)	Spo11/DNA topoisomerase VI subunit A [IPRO2815] (2); Winged helix-turn-helix DNA-binding domain [IPRO11991] (1); Topoisomerase 6 subunit A/Spo11, TOPRIM domain [IPRO34136] (1); Spo11/DNA topoisomerase VI subunit A, N-terminal [IPRO13049] (1); DNA topoisomerase VI subunit A [IPRO40085] (1)	scaffold_6_mRNA_301.6	C_unshiu_00135_mRNA_54.1	-
GF0023338	1	1	0	Putative mitochondrial chaperone BCS1B (2)	ATP binding [GO:0005524 molecular_function] (2)	ATPase, AAA-type, conserved site [IPRO03960] (2); ATPase, AAA-type, core [IPRO03959] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); AAA-type ATPase, N-terminal domain [IPRO25753] (2); AAA+ ATPase domain [IPRO03593] (2)	scaffold_6_mRNA_300.1	C_unshiu_00420_mRNA_11.1	-
GF0023332	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPRO32675] (1); FBD domain [IPRO06566] (1)	scaffold_6_mRNA_297.1	C_unshiu_00133_mRNA_46.1	-
GF0023329	1	1	0	Hypothetical protein (2)		Alpha/Beta hydrolase fold [IPRO29058] (2); Alpha/beta hydrolase fold-5 [IPRO29059] (1); Serine aminopeptidase S33 [IPRO2742] (1)	scaffold_6_mRNA_295.1	C_unshiu_00133_mRNA_29.1	-
GF0023327	1	1	0	Hypothetical protein (2)		GHS family [IPRO04993] (2)	scaffold_6_mRNA_294.1	C_unshiu_00178_mRNA_27.1	-
GF0023326	1	1	0	Hypothetical protein (2)		Protein kinase, ATP binding site [IPRO17441] (2); Protein kinase domain [IPRO00719] (2); Protein kinase-like domain [IPRO11009] (2); Maltin-like carbohydrate-binding domain [IPRO24788] (2); Serine/threonine-protein kinase, active site [IPRO08271] (1); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPRO01245] (1); Serine/threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (1); Tyrosine-protein kinase, catalytic domain [IPRO20655] (1); Concavalin A-like lectin/glucanase domain [IPRO13320] (1)	scaffold_6_mRNA_292.1	C_unshiu_00253_mRNA_5.1	-
GF0023325	1	1	0	Receptor-like protein kinase FERONIA (2)	protein phosphorylation [GO:0006468 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2); protein tyrosine kinase activity [GO:0004713 molecular_function] (1)	NADH-ubiquinone reductase complex 1 MLCK subunit [IPRO10530] (2); Phosphatidylinositol-specific phospholipase C, X domain [IPRO09099] (2); PLC-like phospholipase, TM beta/alpha-barrel domain [IPRO17946] (2)	scaffold_6_mRNA_291.1	C_unshiu_00253_mRNA_20.1	-
GF0023324	1	1	0	PLC-like phospholipases superfamily protein (2)	phosphoric diester hydrolase activity [GO:0008081 molecular_function] (2); lipid metabolic process [GO:0006029 biological_process] (2)	Tetrapeptide-like helical domain [IPRO11990] (2); Pentatricopeptide repeat [IPRO23855] (2)	scaffold_6_mRNA_289.1	C_unshiu_00253_mRNA_37.1	-
GF0023322	1	1	0	Pentatricopeptide (PPR) repeat protein (2)	protein binding [GO:0005515 molecular_function] (2)	S-adenosylmethionine decarboxylase [IPRO1985] (2); S-adenosylmethionine decarboxylase, conserved site [IPRO18166] (2); S-adenosylmethionine decarboxylase, core [IPRO16067] (2); S-adenosylmethionine decarboxylase subgroup [IPRO18167] (1)	scaffold_6_mRNA_287.1	C_unshiu_00098_mRNA_50.1	-
GF0023320	1	1	0	S-adenosylmethionine decarboxylase proenzyme (2)	spermine biosynthetic process [GO:0006597 biological_process] (2); spermidine biosynthetic process [GO:0008295 biological_process] (2); S-adenosylmethionine decarboxylase activity [GO:0004014 molecular_function] (2)	Protein of unknown function DUF1262 [IPRO10683] (2)	scaffold_6_mRNA_286.1	C_unshiu_00098_mRNA_45.1	-
GF0023319	1	1	0	DUF1262 family protein (2)		Reverse transcriptase zinc-binding domain [IPRO5960] (2); Ribonuclease H-like domain [IPRO12337] (2)	scaffold_6_mRNA_284.1	C_unshiu_00357_mRNA_6.1	-
GF0023318	1	1	0	Non-LTR retroelement reverse transcriptase-like (1); Ribonuclease H-like superfamily protein (1)	nucleic acid binding [GO:0003676 molecular_function] (2)	Protein of unknown function DUF2854 [IPRO21275] (2)	scaffold_6_mRNA_282.1	C_unshiu_00098_mRNA_18.1	-
GF0023317	1	1	0	Acclimation to photosynthesis to environment (2)		AWP19-like [IPRO08390] (2)	scaffold_6_mRNA_283.1	C_unshiu_00098_mRNA_14.1	-
GF0023316	1	1	0	Plasma membrane associated protein (1); ABA induced plasma membrane protein (1)		Protein of unknown function DUF4281 [IPRO25461] (1); ABA DEFICIENT 4-like [IPRO25461] (1)	scaffold_6_mRNA_281.1	C_unshiu_00537_mRNA_16.1	-
GF0023314	1	1	0	Neoxanthin synthase (2)	flavin adenine dinucleotide binding [GO:0005660 molecular_function] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); UDP-N-acetylmuramic dehydrogenase activity [GO:0008762 molecular_function] (2); oxidoreductase activity, acting on CH-OH group of donors [GO:0016614 molecular_function] (2); catalytic activity [GO:0003824 molecular_function] (2)	UDP-N-acetylenolpyruvylglucosamine reductase [IPRO03170] (2); UDP-N-acetylenolpyruvylglucosamine reductase, C-terminal [IPRO11601] (2); FAD linked oxidase, N-terminal [IPRO0694] (2); FAD-binding, type 2, subdomain 1 [IPRO16167] (2); CO dehydrogenase flavoprotein-like, FAD-binding, subdomain 2 [IPRO16169] (2)	scaffold_6_mRNA_281.6	C_unshiu_00537_mRNA_15.1	-
GF0023312	1	1	0	Alpha/beta hydrolase family protein (2)		Alpha/Beta hydrolase fold [IPRO29058] (2); Alpha/beta hydrolase fold-1 [IPRO0073] (2)	scaffold_6_mRNA_281.1	C_unshiu_00360_mRNA_15.1	-
GF0023311	1	1	0	Hypothetical protein (2)		Zinc finger, CCCH-type [IPRO00571] (2)	scaffold_6_mRNA_281.1	C_unshiu_00866_mRNA_7.1	-
GF0023309	1	1	0	Hypothetical protein (2)		Protein of unknown function DUF4228, plant [IPRO25322] (2)	scaffold_6_mRNA_278.1	C_unshiu_00038_mRNA_73.1	-
GF0023307	1	1	0	Zinc finger protein, putative (1); Zinc finger CCCH domain-containing protein 39 (1)	metal ion binding [GO:0046872 molecular_function] (2)	Ankyrin repeat-containing domain [IPRO20653] (2); Protein kinase-like domain [IPRO11009] (2); Ankyrin repeat [IPRO02110] (2); Protein kinase domain [IPRO00719] (2); Serine/threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (1); Ferritin-related [IPRO12347] (1); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPRO01245] (1)	scaffold_6_mRNA_276.1	C_unshiu_00038_mRNA_58.1	-
GF0023306	1	1	0	DUF4228 domain protein (2)		Ubiquitin fusion degradation protein UFD1 [IPRO48454] (2)	scaffold_6_mRNA_275.1	C_unshiu_00038_mRNA_31.1	-
GF0023305	1	1	0	Integrin-linked protein kinase family isoform 1 (2)	protein binding [GO:0005515 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2); protein kinase activity [GO:0004672 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2)	Myo-type, basic helix-loop-helix (SHLH) domain [IPRO11598] (2)	scaffold_6_mRNA_271.1	C_unshiu_00038_mRNA_13.1	-
GF0023303	1	1	0	Ubiquitin fusion degradation protein (2)	ubiquitin-dependent protein catabolic process [GO:0006511 biological_process] (2)		scaffold_6_mRNA_270.1	C_unshiu_00038_mRNA_6.1	-
GF0023302	1	1	0	Transcription factor DYSFUNCTIONAL TAPETUM 1 (2)	Transcription factor activity [GO:0046983 molecular_function] (2)				
GF0023301	1	1	0	Hypothetical protein (2)					





ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutula</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutula</i>	Members in <i>P. trifoliata</i>
GF0023247	1	1	0	UDP-glucosyltransferase 71C4 (2)	transferase activity, transferring hexosyl groups [GO:0016758 molecular_function] (2); metabolic process [GO:0008152 biological_process] (2)	UDP-glucuronosyl-UDP-glucosyltransferase [IPRO02213] (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 transcription, DNA-templated [GO:0006355 biological_process] (2); double-stranded DNA binding [GO:0003690 molecular_function] (2); mitochondrion [GO:0005739 cellular_component] (1)	Mitochondrial transcription termination factor [IPRO03690] (1); Transcription termination factor, mitochondrial/chloroplast [IPRO03690] (1)	scaffold_6_mRNA_2123.1	C_unshiu_00248_mRNA_12.1	-
GF0023243	1	1	0	UPF0586 C9orf41-like protein (2)	-	S-adenosyl-L-methionine-dependent methyltransferase [IPRO29065] (2); N2227-like [IPRO12901] (2)	scaffold_6_mRNA_2116.1	C_unshiu_00248_mRNA_4.1	-
GF0023242	1	1	0	Hypothetical protein (2)	transferase activity, transferring hexosyl groups [GO:0016758 molecular_function] (2); metabolic process [GO:0008152 biological_process] (2)	UDP-glucuronosyl-UDP-glucosyltransferase [IPRO02213] (2); Bifunctional inhibitor/put lipid transfer protein/sulfonamide helical domain [IPRO16140] (1)	scaffold_6_mRNA_2115.1	C_unshiu_00248_mRNA_2.1	-
GF0023241	1	1	0	Hypothetical protein (2)	-	Agnet domain, plant type [IPRO14002] (2); Protein of unknown function DUF724 [IPRO07930] (2)	scaffold_6_mRNA_2091.1	C_unshiu_01587_mRNA_5.1	-
GF0023240	1	1	0	Hypothetical protein (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 [IPRO09637] (2)	scaffold_6_mRNA_2020.1	C_unshiu_00090_mRNA_53.1	-
GF0023231	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_200.1	C_unshiu_00138_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)	-	Endonuclease/exonuclease/phosphatase [IPRO0135] (2)	scaffold_6_mRNA_1928.1	C_unshiu_00008_mRNA_73.1	-
GF0023216	1	1	0	Hypothetical protein (2)	-	Endonuclease/exonuclease/phosphatase [IPRO0135] (2)	scaffold_6_mRNA_1927.1	C_unshiu_00008_mRNA_72.1	-
GF0023215	1	1	0	Hypothetical protein (2)	-	-	scaffold_6_mRNA_1907.1	C_unshiu_00008_mRNA_54.1	-
GF0023214	1	1	0	Nadix hydrolase 15, mitochondrial-like protein (1); Nadix hydrolase 15, mitochondrial (1)	hydrolase activity [GO:0016787 molecular_function] (2)	NUDX hydrolase domain [IPRO00086] (2); NUDIX hydrolase domain-like [IPRO15797] (2)	scaffold_6_mRNA_1898.1	C_unshiu_00008_mRNA_45.1	-
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:0000376 molecular_function] (1); zinc ion binding [GO:0008270 molecular_function] (1)	Leucine-rich repeat [IPRO01611] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Leucine-rich repeat, typical subtype [IPRO03591] (2); Zinc finger, CCHC-type [IPRO01878] (1)	scaffold_6_mRNA_1881.1	C_unshiu_00008_mRNA_34.1	-
GF0023211	1	1	0	Pentapeptide 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 molecular_function] (2); lysine-tRNA ligase activity [GO:0004824 molecular_function] (2); lysyl-tRNA aminoacylation [GO:0006450 biological_process] (2); nucleotide binding [GO:0000166 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (3); cytoplasm [GO:0005737 cellular_component] (2); tRNA aminoacylation for protein translation [GO:0006418 biological_process] (2)	Lysyl-tRNA synthetase, class II, C-terminal [IPRO18149] (2); Aminoacyl-tRNA synthetase, class II (D/K/N) [IPRO04364] (2); Aminoacyl-tRNA synthetase, class II (D/K/N)-like [IPRO18150] (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	SOS 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 L14bL23c [IPRO00218] (1); Ribosomal protein L14 domain [IPRO23571] (1); Ribosomal protein L14P [IPRO00218] (1)	scaffold_6_mRNA_1841.1	C_unshiu_01554_mRNA_7.1	-
GF0023200	1	1	0	Selenoprotein t (2)	-	Selenoprotein, Rds type [IPRO11893] (2); Threonine-like fold [IPRO12336] (2); Selenoprotein T [IPRO19389] (2)	scaffold_6_mRNA_1839.1	C_unshiu_01554_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)	transmembrane transport [GO:0055085 biological_process] (1); integral component of membrane [GO:0016021 cellular_component] (1)	Sodium/calcium exchanger membrane region [IPRO04837] (1)	scaffold_6_mRNA_1806.1	C_unshiu_00390_mRNA_4.1	-
GF0023195	1	1	0	Disease resistance protein (2)	-	Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Receptor L-domain [IPRO0494] (1)	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 [IPRO12337] (2); Protein kinase domain [IPRO00719] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Protein kinase-like domain [IPRO11099] (2); Consensusvalin A-like lectin/glucanase domain [IPRO13320] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPRO2290] (1); Serine-threonine/lysine-protein kinase, catalytic domain [IPRO01245] (1); Serine/threonine-protein kinase, active site [IPRO08271] (1); Leucine-rich repeat [IPRO01611] (1); Serine-threonine/lysine-protein kinase catalytic domain [IPRO01245] (1)	scaffold_6_mRNA_1795.1	C_unshiu_00390_mRNA_16.1	-
GF0023193	1	1	0	ILRR 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)	-	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-like domain [IPRO12337] (2); Reverse transcriptase zinc-binding domain [IPRO26960] (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 [IPRO01810] (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 [IPRO15943] (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-glucosyltransferase 85A7 (2)	transferase activity, transferring hexosyl groups [GO:0016758 molecular_function] (2); metabolic process [GO:0008152 biological_process] (2)	UDP-glucuronosyl-UDP-glucosyltransferase [IPRO02213] (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] (1); transferase activity, transferring hexosyl groups [GO:0016758 molecular_function] (1)	UDP-glucuronosyl-UDP-glucosyltransferase [IPRO02213] (1)	scaffold_6_mRNA_1672.1	C_unshiu_00034_mRNA_70.1	-
GF0023182	1	1	0	UDP-glucosyltransferase 85A7 (2)	transferase activity, transferring hexosyl groups [GO:0016758 molecular_function] (2)	UDP-glucuronosyl-UDP-glucosyltransferase [IPRO02213] (2)	scaffold_6_mRNA_1671.1	C_unshiu_00034_mRNA_71.1	-
GF0023180	1	1	0	Hypothetical protein (2)	-	Domain of unknown function DUF4283 [IPRO25558] (2)	scaffold_6_mRNA_1655.1	C_unshiu_01358_mRNA_3.1	-
GF0023179	1	1	0	Hypothetical protein (1); Non-LTR retroelement reverse transcriptase-like protein (1)	-	Reverse transcriptase zinc-binding domain [IPRO26960] (2)	scaffold_6_mRNA_1651.1	C_unshiu_00178_mRNA_15.1	-
GF0023178	1	1	0	Hypothetical protein (2)	-	Bulb-type lectin domain [IPRO01480] (2); Protein kinase-like domain [IPRO11099] (1)	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)	-	Consensusvalin A-like lectin/glucanase domain [IPRO13320] (1)	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 [IPRO20471] (2); Aldo/keto reductase, conserved site [IPRO18170] (2); NADP-dependent oxidoreductase domain [IPRO2310] (2); Aldo/keto reductase/potassium channel subunit beta [IPRO01395] (1)	scaffold_6_mRNA_1613.1	C_unshiu_00102_mRNA_28.1	-
GF0023170	1	1	0	Aldo-keto reductase family 4 member C9 (2)	oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (2)	Aldo/keto reductase [IPRO20471] (2); Aldo/keto reductase, conserved site [IPRO18170] (2); NADP-dependent oxidoreductase domain [IPRO2310] (2); Aldo/keto reductase/potassium channel subunit beta [IPRO01395] (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. clementinae</i>	Num in <i>C. anthoni</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. anthoni</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:0006468 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat-containing N-terminal; plant type [IPRO13210] (2); Serine/threonine-protein kinase, active site [IPRO08271] (2); Protein kinase, ATP binding site [IPRO17441] (2); Leucine-rich repeat [IPRO11611] (2); Protein kinase domain [IPRO00719] (2); Protein kinase-like domain [IPRO11009] (2); Leucine-rich repeat domain, L domain-like [IPRO13295] (1); Leucine-rich repeat, typical subtype [IPRO03591] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPRO02290] (1); Consensus A-like lectin/glucanase domain [IPRO13320] (1)	scaffold_5_mRNA_729.1	C_unshii_00034_mRNA_1.1	-
GF0023017	1	1	0	Hypothetical protein (2)	DNA integration [GO:0015074 biological_process] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Integrase, catalytic core [IPRO01584] (2); Ribonuclease H-like domain [IPRO12337] (2)	scaffold_5_mRNA_727.1	C_unshii_00034_mRNA_2.1	-
GF0023016	1	1	0	Retrovirus-related pol polyprotein from transposon int 1-94 (2)	DNA integration [GO:0015074 biological_process] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Integrase, catalytic core [IPRO01584] (2); Ribonuclease H-like domain [IPRO12337] (2)	scaffold_5_mRNA_726.1	C_unshii_00034_mRNA_3.1	-
GF0023015	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPRO12337] (1)	scaffold_5_mRNA_718.1	C_unshii_00034_mRNA_11.1	-
GF0023013	1	1	0	WEB family protein (2)			scaffold_5_mRNA_714.1	C_unshii_00034_mRNA_14.1	-
GF0023012	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_710.1	C_unshii_00034_mRNA_16.1	-
GF0023011	1	1	0	O-methyltransferase ZRP4 (2)	O-methyltransferase activity [GO:0008171 molecular_function] (2); methyltransferase activity [GO:0008168 molecular_function] (2)	O-methyltransferase, family 2 [IPRO01077] (2); O-methyltransferase COMT-type [IPRO16461] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPRO20663] (2)	scaffold_5_mRNA_705.1	C_unshii_00486_mRNA_21.1	-
GF0023010	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_7.1	C_unshii_00230_mRNA_24.1	-
GF0023009	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_698.1	C_unshii_00486_mRNA_19.1	-
GF0023005	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 [IPRO00571] (2); Zinc finger, C2HC-type [IPRO01878] (1)	scaffold_5_mRNA_676.1	C_unshii_00486_mRNA_1.1	-
GF0023004	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_673.1	C_unshii_00324_mRNA_14.1	-
GF0023003	1	1	0	Embryogenesis-associated EMBS (2)		Alpha/Beta hydrolase fold [IPRO29058] (2)	scaffold_5_mRNA_670.1	C_unshii_00324_mRNA_17.1	-
GF0023002	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4283 [IPRO25588] (2)	scaffold_5_mRNA_663.1	C_unshii_00324_mRNA_25.1	-
GF0023001	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPRO12337] (1)	scaffold_5_mRNA_662.1	C_unshii_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 [IPRO12337] (2); Ribonuclease H domain [IPRO02156] (1)	scaffold_5_mRNA_661.1	C_unshii_00695_mRNA_15.1	-
GF0022999	1	1	0	Retrotransposon protein, putative, Ty1- $\omega$ copia subclass (1); Hypothetical protein (1)			scaffold_5_mRNA_657.1	C_unshii_00269_mRNA_31.1	-
GF0022998	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_655.1	C_unshii_00269_mRNA_27.1	-
GF0022997	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_654.1	C_unshii_01868_mRNA_2.1	-
GF0022996	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_649.1	C_unshii_00269_mRNA_19.1	-
GF0022995	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_647.1	C_unshii_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) zinc ion binding [GO:0008270 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Protein kinase-like domain [IPRO11009] (1); Protein kinase domain [IPRO00719] (1)	scaffold_5_mRNA_639.1	C_unshii_00269_mRNA_11.1	-
GF0022993	1	1	0	Hypothetical protein (2)		Zinc finger, CCHC-type [IPRO01878] (2)	scaffold_5_mRNA_636.1	C_unshii_00492_mRNA_3.1	-
GF0022991	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_627.1	C_unshii_00234_mRNA_4.1	-
GF0022990	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_625.1	C_unshii_00234_mRNA_2.1	-
GF0022989	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_623.1	C_unshii_00636_mRNA_9.1	-
GF0022988	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2); RNA processing [GO:0006396 biological_process] (2)	Ribokinase-like [IPRO29056] (2); HAT (Half-A-TPR) repeat [IPRO03107] (1); Tetraicosapeptide-like helical domain [IPRO11990] (2)	scaffold_5_mRNA_621.1	C_unshii_00234_mRNA_21.1	-
GF0022987	1	1	0	HAT family dimerization domain containing protein (2)	protein dimerization activity [GO:0046983 molecular_function] (2)	HAT, C-terminal dimerisation domain [IPRO08906] (2)	scaffold_5_mRNA_619.1	C_unshii_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 [IPRO12337] (2)	scaffold_5_mRNA_610.1	C_unshii_00354_mRNA_4.1	-
GF0022984	1	1	0	Hypothetical protein (2)		Analytically retrotransposon Or1 [IPRO04312] (2)	scaffold_5_mRNA_609.1	C_unshii_00354_mRNA_7.1	-
GF0022983	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_6.1	C_unshii_00230_mRNA_28.1	-
GF0022982	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 [IPRO32675] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); NB-ARC [IPRO02182] (2); AAA-ATPase domain [IPRO03593] (2); Winged helix-turn-helix DNA-binding domain [IPRO11991] (1)	scaffold_5_mRNA_594.1	C_unshii_01036_mRNA_4.1	-
GF0022981	1	1	0	FAD-binding Berberine family protein (2)	flavin adenine dinucleotide binding [GO:0005660 molecular_function] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity, acting on CH-OH group of donors [GO:0016614 molecular_function] (2); catalytic activity [GO:0003824 molecular_function] (2)	Berberine/berberine-like [IPRO12951] (2); FAD-binding, type 2 [IPRO16166] (2); FAD linked oxidase, N-terminal [IPRO6094] (1); Oxygen oxidoreductase covalent FAD-binding site [IPRO06993] (1); FAD-binding, type 2, subdomain 1 [IPRO16167] (1); CO dehydrogenase flavoprotein-like binding, subdomain 2 [IPRO16169] (1)	scaffold_5_mRNA_587.1	C_unshii_00108_mRNA_15.1	-
GF0022980	1	1	0	60S ribosomal protein L3 (2)	cellular component [GO:0005840 cellular_component] (2); translation [GO:0006412 biological_process] (2); intracellular [GO:0000522 cellular_component] (2); structural constituent of ribosome [GO:0003735 molecular_function] (2)	Ribosomal protein L3 [IPRO00597] (2); Translation protein, beta-barrel domain [IPRO00000] (2); Ribosomal protein L3, conserved site [IPRO19926] (2)	scaffold_5_mRNA_579.1	C_unshii_00108_mRNA_11.1	-
GF0022979	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_572.1	C_unshii_00108_mRNA_4.1	-
GF0022978	1	1	0	Hypothetical protein (1); Transposase (1)	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 transposase, RNase-H fold [IPRO25525] (2); Ribonuclease H-like domain [IPRO12337] (1); HAT, C-terminal dimerisation domain [IPRO08906] (1)	scaffold_5_mRNA_571.1	C_unshii_00108_mRNA_3.1	-
GF0022975	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_557.1	C_unshii_00710_mRNA_4.1	-
GF0022974	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_556.1	C_unshii_00710_mRNA_5.1	-
GF0022973	1	1	0	Hypothetical protein (2)		Ankyrin repeat-containing domain [IPRO20683] (2)	scaffold_5_mRNA_555.1	C_unshii_00710_mRNA_6.1	-
GF0022972	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_55.1	C_unshii_00231_mRNA_13.1	-
GF0022971	1	1	0	Hypothetical protein (2)		Aspartic peptidase domain [IPRO21109] (1)	scaffold_5_mRNA_548.1	C_unshii_00035_mRNA_73.1	-
GF0022970	1	1	0	Hypothetical protein (2)		Aspartic peptidase domain [IPRO21109] (1)	scaffold_5_mRNA_532.1	C_unshii_00561_mRNA_14.1	-
GF0022965	1	1	0	Hypothetical protein (2)	ADP binding [GO:0043531 molecular_function] (2)	P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); NB-ARC [IPRO02182] (2); Winged helix-turn-helix DNA-binding domain [IPRO11991] (1)	scaffold_5_mRNA_520.1	C_unshii_00561_mRNA_12.1	-
GF0022964	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPRO32675] (1)	scaffold_5_mRNA_52.1	C_unshii_00231_mRNA_10.1	-
GF0022963	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); zinc ion binding [GO:0008270 molecular_function] (2)	FHY3/FAR1 family [IPRO31052] (2); FAK1 DNA binding domain [IPRO04310] (2); Zinc finger, PHZ-type [IPRO06564] (2); Zinc finger, SWIM-type [IPRO07527] (2)	scaffold_5_mRNA_519.1	C_unshii_00697_mRNA_2.2	-
GF0022961	1	1	0	Xylem cysteine peptidase 1 (2)	cysteine-type peptidase activity [GO:0008234 molecular_function] (2); proteolysis [GO:0006058 biological_process] (2)	Peptidase C1A [IPRO13128] (2); Cysteine peptidase, cysteine active site [IPRO0169] (2); Cysteine peptidase, histidine active site [IPRO25660] (2); Peptidase C1A, papain C-terminal [IPRO0698] (2); Cysteine peptidase, asparagine active site [IPRO25661] (2); Cathepsin propeptide inhibitor domain [IPRO13201] (2)	scaffold_5_mRNA_518.1	C_unshii_00370_mRNA_21.1	-
GF0022958	1	1	0	Hypothetical protein (2)	enzyme inhibitor activity [GO:0004857 molecular_function] (1)	Proteinase inhibitor domain [IPRO05011] (1)	scaffold_5_mRNA_515.1	C_unshii_00561_mRNA_15.1	-
GF0022957	1	1	0	Dimethylamine monoxygenase, putative (2)	dimethylamine monoxygenase activity [GO:0005514 biological_process] (2); flavin adenine dinucleotide binding [GO:0005660 molecular_function] (2); NADP binding [GO:0050661 molecular_function] (2); N,N-dimethylamine monoxygenase activity [GO:0004499 molecular_function] (2)	Dimethylamine monoxygenase, N-oxide-forming [IPRO12143] (2); FAD/NAD(P)-binding domain [IPRO23753] (2); Flavin monoxygenase-like [IPRO20946] (2)	scaffold_5_mRNA_513.1	C_unshii_00623_mRNA_11.1	-
GF0022956	1	1	0	Hypothetical protein (1); BAHD acyltransferase (1)	transferase activity, transferring acyl groups other than amino-acyl groups [GO:0016747 molecular_function] (1)	Transferase [IPRO3480] (1); Chloramphenicol acetyltransferase-like domain [IPRO23213] (1)	scaffold_5_mRNA_512.1	C_unshii_00623_mRNA_6.1	-

ID	Num. in <i>C. caryophyllae</i>	Num. in <i>C. acanthi</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. caryophyllae</i>	Members in <i>C. acanthi</i>	Members in <i>P. trifoliata</i>
GF0022955	1	1	0	Acylsugar acyltransferase 3 (2)	transferase activity, transferring acyl groups other than amino-acyl groups [GO:0016747 molecular_function] (2)	Transferase [IPRO03480] (2); Chlorophenyl acetyltransferase-like domain [IPRO23213] (1)	scaffold_5_mRNA_5127.1	C_umshii_00623_mRNA_5.1	-
GF0022954	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_5120.1	C_umshii_01461_mRNA_5.1	-
GF0022952	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_5112.1	C_umshii_00409_mRNA_13.1	-
GF0022948	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_5105.1	C_umshii_00409_mRNA_10.1	-
GF0022946	1	1	0	Hypothetical protein (1); U11/U12 small nuclear ribonucleoprotein 25 kDa (1)		Ubiquitin-related domain [IPRO29071] (2)	scaffold_5_mRNA_5089.1	C_umshii_00527_mRNA_2.1	-
GF0022941	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_5046.1	C_umshii_00102_mRNA_34.1	-
GF0022940	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_5038.1	C_umshii_00061_mRNA_51.1	-
GF0022938	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_503.1	C_umshii_02469_mRNA_2.1	-
GF0022936	1	1	0	Hypothetical protein (2)	GTP binding [GO:0005525 molecular_function] (2); microtubule [GO:0005874 cellular_component] (2); structural constituent of cytoskeleton [GO:0005200 molecular_function] (2); microtubule-based process [GO:0007010 biological_process] (2); GTPase activity [GO:0003924 molecular_function] (2)	Beta tubulin [IPRO02453] (2); Tubulin-FtsZ, GTPase domain [IPRO03098] (2); Tubulin [IPRO00217] (2); Tubulin-FtsZ, 2-layer sandwich domain [IPRO18316] (2); Tubulin-FtsZ, C-terminal [IPRO08280] (2); Brain reproductive organ-expressed protein [IPRO10358] (2); Tubulin, conserved site [IPRO17975] (1); Tubulin, C-terminal [IPRO23123] (1)	scaffold_5_mRNA_5025.1	C_umshii_00192_mRNA_14.1	-
GF0022935	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_5023.2	C_umshii_00192_mRNA_12.2	-
GF0022934	1	1	0	Hypothetical protein (2)	protein retention in ER lumen [GO:0006621 biological_process] (2); glycoprotein alpha-N-acetylgalactosaminidase activity [GO:0033926 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)	ER lumen protein retaining receptor [IPRO00133] (2); Six-hairpin glycosylase-like [IPRO08928] (2); Glycosyl hydrolase family 100 [IPRO24746] (2)	scaffold_5_mRNA_5022.1	C_umshii_00192_mRNA_11.1	-
GF0022933	1	1	0	Hypothetical protein (2)	heat shock protein binding [GO:0031072 molecular_function] (2); unfolded protein binding [GO:0051082 molecular_function] (2)	Heat shock protein DnaJ, cysteine-rich domain [IPRO01305] (2)	scaffold_5_mRNA_5020.1	C_umshii_00192_mRNA_9.1	-
GF0022932	1	1	0	Protein disulfide-isomerase LQY1 (2)			scaffold_5_mRNA_5009.1	C_umshii_00009_mRNA_158.1	-
GF0022931	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_5.1	C_umshii_00203_mRNA_29.1	-
GF0022928	1	1	0	Transmembrane and coiled-coil protein (2)		Protein of unknown function DUF726 [IPRO07941] (2); Alpha/Beta hydrolase fold [IPRO20058] (2)	scaffold_5_mRNA_4975.1	C_umshii_00009_mRNA_123.1	-
GF0022926	1	1	0	S-type anion channel SLAH1 (2)	transmembrane transport [GO:0055085 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)	Voltage-dependent anion channel [IPRO04695] (2); S-type anion channel [IPRO30183] (1)	scaffold_5_mRNA_4970.1	C_umshii_00009_mRNA_120.1	-
GF0022925	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_4964.1	C_umshii_00009_mRNA_114.1	-
GF0022922	1	1	0	Hypothetical protein (2)		Cyclin-like [IPRO13763] (1)	scaffold_5_mRNA_4930.1	C_umshii_00127_mRNA_33.1	-
GF0022921	1	1	0	Hypothetical protein (2)		P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2)	scaffold_5_mRNA_4927.1	C_umshii_00127_mRNA_36.1	-
GF0022919	1	1	0	Hypothetical protein (2)		ZF-HD homeobox protein, Cys/HIS-rich dimerization domain [IPRO06456] (2); Homeodomain, ZF-HD class [IPRO06455] (2); Homeodomain-like [IPRO09057] (1); Homeobox domain-like [IPRO09057] (1)	scaffold_5_mRNA_4911.1	C_umshii_00127_mRNA_50.1	-
GF0022918	1	1	0	Zinc finger homeodomain protein 1 (1); Zinc-finger homeodomain protein 1 (1)	DNA binding [GO:0003677 molecular_function] (2)		scaffold_5_mRNA_4902.1	C_umshii_00079_mRNA_4.1	-
GF0022917	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_4900.1	C_umshii_01543_mRNA_5.1	-
GF0022911	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_4847.1	C_umshii_00234_mRNA_23.1	-
GF0022909	1	1	0	DUF617 family protein (2)		Protein of unknown function DUF617, plant [IPRO06460] (1); Protein MIZU-KUSSE1 1-like, plant [IPRO06460] (1)	scaffold_5_mRNA_4811.1	C_umshii_00013_mRNA_108.1	-
GF0022908	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_4796.1	C_umshii_00951_mRNA_18.1	-
GF0022905	1	1	0	Putative succinate dehydrogenase 5-like (1); Succinate dehydrogenase 5 (1)		Protein of unknown function DUF4370 [IPRO25397] (2)	scaffold_5_mRNA_4789.1	C_umshii_00951_mRNA_12.1	-
GF0022902	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_478.1	C_umshii_00308_mRNA_3.1	-
GF0022901	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2); RNA-DNA hybrid ribonuclease activity [GO:004523 molecular_function] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	WD40-YVTN repeat-like-containing domain [IPRO15943] (2); WD40-repeat-containing domain [IPRO17986] (2); WD40 repeat [IPRO16580] (1); Ribonuclease H domain [IPRO02156] (1); Ribonuclease H-like domain [IPRO12337] (1)	scaffold_5_mRNA_477.1	C_umshii_00610_mRNA_8.1	-
GF0022899	1	1	0	Hypothetical protein (2)	regulation of defense response [GO:0031347 biological_process] (2); ubiquitin-protein transferase activity [GO:0004842 molecular_function] (2); nucleus [GO:0005634 cellular_component] (2); protein ubiquitination [GO:0016587 biological_process] (2); zinc ion binding [GO:0008270 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2)	Zinc finger, RING-type [IPRO01841] (2); E3 ubiquitin-protein ligase BOI [IPRO17066] (2); Zinc finger, RING/YVE/PHD-type [IPRO13083] (1)	scaffold_5_mRNA_4756.1	C_umshii_00096_mRNA_42.1	-
GF0022898	1	1	0	Daclovalin IAP repeat-containing protein 3 (2)			scaffold_5_mRNA_4751.1	C_umshii_00096_mRNA_38.1	-
GF0022897	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_475.1	C_umshii_00646_mRNA_7.1	-
GF0022895	1	1	0	Poly(A) binding protein 6, putative isoform 1 (2)	RNA binding [GO:0003723 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2); nucleotide binding [GO:0000166 molecular_function] (1)	Polyadenylate-binding protein/Hyperplastic disc protein [IPRO02004] (2); RNA recognition motif domain, eukaryote [IPRO03954] (2); RNA recognition motif domain [IPRO00504] (2); Polyadenylate binding protein, human types 1, 2, 3, 4 [IPRO00515] (2); Nucleotide-binding alpha-beta plat domain [IPRO12677] (1)	scaffold_5_mRNA_4741.1	C_umshii_00096_mRNA_31.1	-
GF0022893	1	1	0	Serine/threonine-protein kinase WNK (2)		Transcription factor MYC/MYB N-terminal [IPRO25610] (2)	scaffold_5_mRNA_4730.1	C_umshii_00096_mRNA_19.1	-
GF0022892	1	1	0	Cyclin D (2)	nucleus [GO:0005634 cellular_component] (2)	Cyclin, C-terminal domain [IPRO04367] (2); Cyclin-like [IPRO13763] (2); Cyclin, N-terminal [IPRO06671] (2)	scaffold_5_mRNA_4726.1	C_umshii_00096_mRNA_13.1	-
GF0022890	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_4705.1	C_umshii_01089_mRNA_10.1	-
GF0022888	1	1	0	CHC4-type RING finger protein (2)	protein binding [GO:0005515 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (2)	Zinc finger, RING/YVE/PHD-type [IPRO13083] (2); Protein of unknown function DUF1232 [IPRO10652] (2); Zinc finger, RING-type [IPRO01841] (2); Zinc finger, RING-type, conserved site [IPRO17907] (2)	scaffold_5_mRNA_4696.1	C_umshii_01089_mRNA_17.1	-
GF0022886	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_4687.1	C_umshii_01033_mRNA_11.1	-
GF0022885	1	1	0	Epidermal patterning factor (2)			scaffold_5_mRNA_4681.1	C_umshii_01033_mRNA_5.1	-
GF0022884	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_4676.1	C_umshii_00457_mRNA_31.1	-
GF0022881	1	1	0	Hypothetical protein (2)	histidinol-phosphate transaminase activity [GO:0004400 molecular_function] (1); biosynthetic process [GO:0009058 biological_process] (1); catalytic activity [GO:0003824 molecular_function] (1); pyridoxal phosphate binding [GO:0030170 molecular_function] (1); histidine biosynthetic process [GO:0000105 biological_process] (1)	Protein of unknown function DUF616 [IPRO06852] (2); Pyridoxal phosphate-dependent transferase, major region, subdomain 1 [IPRO15421] (1); Aminotransferase, class I/class I [IPRO04839] (1); Pyridoxal phosphate-dependent transferase, major region, subdomain 2 [IPRO15422] (1); Pyridoxal phosphate-dependent transferase [IPRO15424] (1); Histidinol-phosphate aminotransferase family [IPRO05861] (1)	scaffold_5_mRNA_4657.1	C_umshii_00457_mRNA_11.1	-
GF0022880	1	1	0	Similar to ATP-binding domain 1 family member B (1); GPN-loop GTPase 2 (1)		P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); GPN-loop GTPase [IPRO04130] (2); GPN-loop GTPase 2 [IPRO30231] (2)	scaffold_5_mRNA_4651.1	C_umshii_00646_mRNA_10.1	-
GF0022879	1	1	0	CCA tRNA nucleotidyltransferase, mitochondrial (2)	RNA binding [GO:0003723 molecular_function] (2); RNA processing [GO:0006396 biological_process] (2); nucleotidyltransferase activity [GO:0016779 molecular_function] (2)	Poly A polymerase, head domain [IPRO02646] (2)	scaffold_5_mRNA_4642.1	C_umshii_00802_mRNA_5.1	-
GF0022875	1	1	0	Hypothetical protein (1); F-actin capping protein beta subunit (1)	F-actin capping protein complex [GO:0008290 cellular_component] (2); actin cytoskeleton organization [GO:0030036 biological_process] (2); actin binding [GO:0003779 molecular_function] (2); cytoplasm [GO:0005737 cellular_component] (2); barbed-end actin filament capping [GO:0051016 biological_process] (2)	F-actin-capping protein subunit beta [IPRO01698] (2); F-actin capping protein, beta subunit, conserved site [IPRO19771] (2)	scaffold_5_mRNA_4619.1	C_umshii_00495_mRNA_17.1	-
GF0022873	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_4615.1	C_umshii_00046_mRNA_29.1	-
GF0022872	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2)	FHY3/FAR1 family [IPRO31052] (2); FAR1 DNA-binding domain [IPRO04330] (2)	scaffold_5_mRNA_4614.1	C_umshii_00046_mRNA_28.1	-
GF0022870	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_460.1	C_umshii_00646_mRNA_22.1	-
GF0022869	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_46.1	C_umshii_00407_mRNA_25.1	-
GF0022868	1	1	0	Hypothetical protein (2)	enzyme inhibitor activity [GO:0004857 molecular_function] (1)	Pectinesterase inhibitor domain [IPRO06501] (1)	scaffold_5_mRNA_4580.1	C_umshii_00278_mRNA_25.1	-
GF0022867	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_4571.1	C_umshii_00556_mRNA_1.1	-

ID	Num. in <i>C. celerantiae</i>	Num. in <i>C. acicola</i>	Num. in <i>P. trifoliate</i>	Note	GO	InterPro	Members in <i>C. celerantiae</i>	Members in <i>C. acicola</i>	Members in <i>P. trifoliate</i>
GF0022865	1	1	0	Cupredoxin superfamily protein, putative (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); DNA binding [GO:0003677 molecular_function] (2)	Cupredoxin [IPRO08972] (2)	scaffold_5_mRNA_4554.1	C_unshiu_004301_mRNA_18.1	-
GF0022863	1	1	0	Dof domain zinc finger protein (2)		Zinc finger, Dof-type [IPRO03851] (2)	scaffold_5_mRNA_4521.1	C_unshiu_00183_mRNA_14.1	-
GF0022862	1	1	0	Hypothetical protein (2)		PGG domain [IPRO26961] (2)	scaffold_5_mRNA_4520.1	C_unshiu_00183_mRNA_15.1	-
GF0022861	1	1	0	EF1 protein (2)		NTF2-like domain [IPRO32710] (2)	scaffold_5_mRNA_4513.1	C_unshiu_00183_mRNA_22.1	-
GF0022859	1	1	0	Retransposon protein, putative, Ty1-0 copia subclass (1); Putative retroelement pol protein (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 [IPRO12337] (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:0008270 molecular_function] (1)	Reverse transcriptase zinc-binding domain [IPRO26960] (2); Zinc knuckle CX2CX4HX4C [IPRO25836] (1); Zinc finger, CCHC-type [IPRO01878] (1); Ribonuclease H-like domain [IPRO12337] (1)	scaffold_5_mRNA_4492.1	C_unshiu_00183_mRNA_45.1	-
GF0022856	1	1	0	Geraniol dehydrogenase 1 (2)	oxidation-reduction process [GO:005114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (1); zinc ion binding [GO:0008270 molecular_function] (1)	GroES-like [IPRO11032] (2); Alcohol dehydrogenase, N-terminal [IPRO13154] (2); NAD(P)-binding domain [IPRO16040] (1); Alcohol dehydrogenase superfamily, zinc-type [IPRO2085] (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)	NAD(P)-binding domain [IPRO16040] (2); Winged helix-helix DNA-binding domain [IPRO11991] (2); NtrA-like domain [IPRO08030] (2); Plant methyltransferase dimerization [IPRO12967] (2)	scaffold_5_mRNA_4482.1	C_unshiu_00319_mRNA_37.1	-
GF0022854	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, I domain-like [IPRO32675] (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, ATP binding site [IPRO17441] (2); Protein kinase-like domain [IPRO11009] (2); Protein kinase domain [IPRO00719] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPRO02290] (1)	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)		Zinc finger, RING-type [IPRO01841] (2); WD40/YVTN repeat-like-containing domain [IPRO15943] (2); WD40 repeat [IPRO01680] (2); WD40-repeat-containing domain [IPRO17986] (2); Protein kinase-like domain [IPRO11009] (2); Zinc finger, RING-FYVE/PHD-type [IPRO13083] (2); G-protein beta WD40 repeat [IPRO04472] (1); RING-type zinc-finger, Lish dimerization motif [IPRO27370] (1)	scaffold_5_mRNA_4449.1	C_unshiu_00277_mRNA_6.1	-
GF0022850	1	1	0	Preprotein translocase SecA family protein, putative isoform 8 (2)	zinc ion binding [GO:0008270 molecular_function] (2); protein binding [GO:0005515 molecular_function] (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)		YjdP-type Gcn5-related N-acyltransferase [IPRO31165] (2); Acyl-CoA N-acyltransferase [IPRO16181] (2)	scaffold_5_mRNA_4382.1	C_unshiu_00477_mRNA_19.1	-
GF0022847	1	1	0	Small glutamine-rich tetrapeptide repeat-containing protein alpha (2)	protein binding [GO:0005515 molecular_function] (2)	Tetrapeptide-like helical domain [IPRO11990] (2); Tetrapeptide repeat 2 [IPRO13105] (2); Tetrapeptide repeat [IPRO19734] (2); Tetrapeptide repeat-containing domain [IPRO13026] (2)	scaffold_5_mRNA_4363.1	C_unshiu_00144_mRNA_7.1	-
GF0022846	1	1	0	Hypothetical protein (2)		Aspartic peptidase domain [IPRO21109] (1)	scaffold_5_mRNA_436.1	C_unshiu_00378_mRNA_6.1	-
GF0022845	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_4355.1	C_unshiu_02644_mRNA_3.1	-
GF0022842	1	1	0	Putative calcium-binding protein CML25 (1)	calcium ion binding [GO:0005509 molecular_function] (2)	EF-hand domain pair [IPRO11992] (2); EF-hand 1, calcium-binding site [IPRO18247] (2); EF-hand domain [IPRO02048] (2)	scaffold_5_mRNA_4308.1	C_unshiu_00088_mRNA_11.1	-
GF0022841	1	1	0	Glycosyl hydrolase family 17 family protein (1); Hypothetical protein (1)	hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular_function] (1); carbohydrate metabolic process [GO:0005975 biological_process] (1)	Glycoside hydrolase superfamily [IPRO17853] (2); Glycoside hydrolase family 17 [IPRO00490] (1); Glycoside hydrolase, catalytic domain [IPRO13781] (1)	scaffold_5_mRNA_4303.1	C_unshiu_00088_mRNA_18.1	-
GF0022840	1	1	0	Transmembrane protein 50A (2)		Uncharacterized protein family UPP0220 [IPRO07919] (2)	scaffold_5_mRNA_4300.1	C_unshiu_00088_mRNA_20.1	-
GF0022839	1	1	0	Hypothetical protein (2)		DNA-binding pseudobarrel domain [IPRO15300] (2)	scaffold_5_mRNA_43.1	C_unshiu_00231_mRNA_2.1	-
GF0022837	1	1	0	Galactosyltransferase family protein (2)	galactosyltransferase activity [GO:0008378 molecular_function] (2); membrane [GO:0016020 cellular_component] (2); protein glycosylation [GO:0006486 biological_process] (2)	Domain of unknown function DUF4094 [IPRO25298] (2); Glycosyltransferase, family 31 [IPRO02659] (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 [IPRO06121] (2)	scaffold_5_mRNA_4266.1	C_unshiu_00088_mRNA_45.1	-
GF0022831	1	1	0	Hypothetical protein (1); MADS-box protein AGL66 (1)	RNA polymerase II regulatory region sequence-specific DNA binding [GO:0000977 molecular_function] (1); DNA binding [GO:0003677 molecular_function] (1); nucleus [GO:0005634 cellular_component] (1); protein dimerization activity [GO:0046983 molecular_function] (1); transcription factor activity, sequence-specific DNA binding [GO:0003700 molecular_function] (1); MAPK cascade [GO:0000165 biological_process] (1); positive regulation of transcription from RNA polymerase II promoter [GO:0045944 biological_process] (1); regulation of transcription, DNA-templated [GO:0006355 biological_process] (1)	Transcription factor, MADS-box [IPRO02100] (1); Transcription factor, K-box [IPRO02457] (1); MADS-MEF2-like [IPRO33896] (1)	scaffold_5_mRNA_4265.1	C_unshiu_00088_mRNA_46.1	-
GF0022830	1	1	0	2,3-bisphosphoglycerate-dependent phosphoglycerate mutase (2)	metabolic process [GO:0008152 biological_process] (2); intramolecular transferase activity, phosphotransferases [GO:0016808 molecular_function] (2); catalytic activity [GO:0003824 molecular_function] (2); phosphoglycerate mutase activity [GO:0004619 molecular_function] (2); glycolytic process [GO:0006096 biological_process] (2)	Histidine phosphatase superfamily, clade-1 [IPRO13078] (2); Phosphoglycerate bisphosphoglycerate mutase, active site [IPRO01345] (2); Histidine phosphatase superfamily [IPRO29033] (2); Phosphoglycerate mutase 1 [IPRO05952] (2)	scaffold_5_mRNA_4254.1	C_unshiu_00088_mRNA_64.1	-
GF0022829	1	1	0	Monooxyglycerol lipase ABHD6 (2)	catalytic activity [GO:0003824 molecular_function] (2)	Alpha/beta hydrolase fold-1 [IPRO00073] (2); Alpha/beta hydrolase fold [IPRO29058] (2); Epoxide hydrolase-like [IPRO00639] (2); Alpha/beta hydrolase fold-5 [IPRO29059] (1)	scaffold_5_mRNA_4218.1	C_unshiu_00241_mRNA_14.1	-
GF0022825	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_421.1	C_unshiu_00059_mRNA_40.1	-
GF0022824	1	1	0	UDP-glucosyltransferase 85A1 (2)	transferase activity, transferring hexosyl groups [GO:0016758 molecular_function] (2); metabolic process [GO:0008152 biological_process] (2)	UDP-glucosyltransferase [IPRO02213] (2)	scaffold_5_mRNA_4205.1	C_unshiu_02009_mRNA_2.1	-
GF0022823	1	1	0	Hypothetical protein (2)		Phosphate-induced protein 1 [IPRO06766] (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 transport [LAJ002083 biological_process] (2); drug transmembrane transport [GO:0006855 biological_process] (2); antiporter activity [GO:0015297 molecular_function] (2); drug transmembrane transporter activity [GO:0015238 molecular_function] (2); membrane [GO:0016020 cellular_component] (2)	Multi antimicrobial extrusion protein [IPRO02528] (2)	scaffold_5_mRNA_4159.1	C_unshiu_02304_mRNA_4.1	-
GF0022814	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_4131.1	C_unshiu_00255_mRNA_12.1	-
GF0022813	1	1	0	Hypothetical protein (1); Peptide repeat ORF protein (1)			scaffold_5_mRNA_4130.1	C_unshiu_00255_mRNA_11.1	-
GF0022812	1	1	0	Putative ORF protein (1); Anomalous RNA small subunit methyltransferase A (1)			scaffold_5_mRNA_4128.1	C_unshiu_00255_mRNA_9.1	-
GF0022811	1	1	0	Hypothetical protein (1); Putative CAI-1 autoinducer sensor kinase/phosphatase cqsK-like (1)	zinc ion binding [GO:0008270 molecular_function] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	Harbinger transposase-derived nuclease domain [IPRO27806] (2); Zinc finger, CCHC-type [IPRO08791] (1)	scaffold_5_mRNA_4113.1	C_unshiu_00718_mRNA_10.1	-
GF0022810	1	1	0	Hypothetical protein (1); Putative CAI-1 autoinducer sensor kinase/phosphatase cqsK-like (1)	zinc ion binding [GO:0008270 molecular_function] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	Harbinger transposase-derived nuclease domain [IPRO27806] (2); Zinc finger, CCHC-type [IPRO08791] (1)	scaffold_5_mRNA_410.1	C_unshiu_01699_mRNA_4.1	-
GF0022806	1	1	0	Ankyrin repeat protein (2)	protein binding [GO:0005515 molecular_function] (2)	Ankyrin repeat [IPRO02110] (2); Ankyrin repeat-containing domain [IPRO20683] (2); PGG domain [IPRO26961] (2)	scaffold_5_mRNA_408.1	C_unshiu_00664_mRNA_1.1	-
GF0022805	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_4075.1	C_unshiu_00042_mRNA_50.1	-

ID	Num. in <i>C. clementiae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. frydlandae</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. acutis</i>	Members in <i>P. frydlandae</i>
GF0022802	1	1	0	Hypothetical protein (2)	NAD <sup>+</sup> ADP-ribosyltransferase activity [GO:000590 molecular_function] (2); structural constituent of ribosome [GO:003735 molecular_function] (2); translation [GO:0006412 biological_process] (2); rRNA binding [GO:0019843 molecular_function] (2); ribosome [GO:0005840 cellular_component] (2); chloroplast [GO:0009507 cellular_component] (2)	Poly(ADP-ribose) polymerase, catalytic domain [IPRO12317] (2)	scaffold_5_mRNA_4048.1	C_unshiu_00042_mRNA_20.1	-
GF0022801	1	1	0	50S ribosomal protein 6, chloroplast (2)	biological_process [GO:0009507 cellular_component] (2); rRNA binding [GO:0019843 molecular_function] (2); ribosome [GO:0005840 cellular_component] (2); chloroplast [GO:0009507 cellular_component] (2)	Ribosomal protein L6, chloroplast [IPRO20526] (2)	scaffold_5_mRNA_4046.1	C_unshiu_00042_mRNA_18.1	-
GF0022800	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (1)	Pentatricopeptide repeat [IPRO02885] (2); Tetra-tricopeptide-like helical domain [IPRO11990] (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:0005515 molecular_function] (2)	F-box domain [IPRO01810] (2); F-box associated interaction domain [IPRO17451] (2)	scaffold_5_mRNA_4034.1	C_unshiu_00484_mRNA_3.1	-
GF0022797	1	1	0	Hypothetical protein (2)		Retrotransposon gag domain [IPRO05162] (2)	scaffold_5_mRNA_403.1	C_unshiu_00664_mRNA_8.1	-
GF0022795	1	1	0	Hephaloheptin protein (2)	integral component of membrane [GO:0016021 cellular_component] (2)	Adipor/Hsemolysin-III-related [IPRO04254] (2)	scaffold_5_mRNA_4003.1	C_unshiu_00190_mRNA_13.1	-
GF0022793	1	1	0	Transcription factor bHLH85 (2)	protein dimerization activity [GO:0046983 molecular_function] (2)	Mye-type, basic, helix-loop-helix (bHLH) domain [IPRO11598] (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:0006355 biological_process] (1)	FHY3/FAR1 family [IPRO31052] (1)	scaffold_5_mRNA_3963.1	C_unshiu_02775_mRNA_2.1	-
GF0022790	1	1	0	Hypothetical protein (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 [IPRO14770] (2); Protein of unknown function DU810 [IPRO05531] (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)	Ribonuclease H-like domain [IPRO12337] (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:0005515 molecular_function] (2)	Ankyrin repeat-containing domain [IPRO20683] (2); PFG domain [IPRO26961] (2); Ankyrin repeat [IPRO02110] (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_384.1	C_unshiu_01774_mRNA_4.1	-
GF0022777	1	1	0	Epoxide hydrolase 2 (2)	catalytic activity [GO:0003824 molecular_function] (2)	Alpha/beta hydrolase fold-1 [IPRO00073] (2); Alpha/Beta hydrolase fold [IPRO29058] (2); Epoxide hydrolase-like [IPRO00639] (2)	scaffold_5_mRNA_384.1	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	Hypothetical protein (2)			scaffold_5_mRNA_3820.1	C_unshiu_00214_mRNA_48.1	-
GF0022772	1	1	0	Translationally-controlled tumor protein homolog (2)		Translationally controlled tumour protein, conserved site [IPRO18105] (2); Mod/translationally controlled tumour-associated TCTP [IPRO11323] (1); Translationally controlled tumour protein (TCTP) domain [IPRO34737] (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 [IPRO12347] (1)	scaffold_5_mRNA_3784.1	C_unshiu_00214_mRNA_21.1	-
GF0022770	1	1	0	Zinc finger protein MAGP2 (E)	nucleic acid binding [GO:0003676 molecular_function] (2); metal ion binding [GO:0046872 molecular_function] (1)	Zinc finger C2H2-type [IPRO13087] (1); Zinc finger C2H2 [IPRO07087] (1); Zinc finger C2H2-type/integrase DNA-binding domain [IPRO13087] (1); Zinc finger, C2H2-like [IPRO15880] (1); Zinc finger, double-stranded RNA binding [IPRO22755] (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 biosynthetic process [GO:0006033 biological_process] (2); transferase activity, transferring acyl groups other than amino-acyl groups [GO:016747 molecular_function] (2); membrane [GO:0016020 cellular_component] (2); metabolic process [GO:0008152 biological_process] (2)	3-Oxoacyl-acyl-carrier-protein (ACP) synthase III, C-terminal [IPRO13747] (2); FAE1/Type III polyketide synthase-like protein [IPRO13601] (2); Very-long-chain 3-oxoacyl-CoA synthase [IPRO12392] (2); Thiolase-like [IPRO16039] (2)	scaffold_5_mRNA_3765.1	C_unshiu_00214_mRNA_1.1	-
GF0022765	1	1	0	Hypothetical protein (2)		Arabidopsis retrotransposon On1 [IPRO04312] (2)	scaffold_5_mRNA_376.1	C_unshiu_00328_mRNA_8.1	-
GF0022764	1	1	0	Hypothetical protein (2)		Protein kinase domain [IPRO00719] (2); Protein kinase-like domain [IPRO11009] (2); Serine-threonine/tyrosine-protein kinase, catalytic domain [IPRO01245] (1); Serine-threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (1)	scaffold_5_mRNA_3745.1	C_unshiu_00907_mRNA_3.1	-
GF0022762	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)		scaffold_5_mRNA_3733.1	C_unshiu_00229_mRNA_24.1	-
GF0022761	1	1	0	Hypothetical protein (2)	nucleosome [GO:0000786 cellular_component] (2); DNA binding [GO:0003677 molecular_function] (2); protein heterodimerization activity [GO:0046982 molecular_function] (1)	Histone H3/CENP-A [IPRO00164] (2); Histone-fold [IPRO00972] (1)	scaffold_5_mRNA_373.1	C_unshiu_00328_mRNA_7.1	-
GF0022758	1	1	0	Hypothetical protein (2)		HSP20-like chaperone [IPRO08978] (1)	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 [IPRO13103] (1)	scaffold_5_mRNA_3662.1	C_unshiu_00213_mRNA_53.1	-
GF0022751	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2); mRNA splicing via spliceosome [GO:0000398 biological_process] (1)	Tetratricopeptide-like helical domain [IPRO11990] (2); Pre-mRNA-processing factor 6/Ppl1/STAF [IPRO27108] (1)	scaffold_5_mRNA_3660.1	C_unshiu_00224_mRNA_7.1	-
GF0022750	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2); mRNA splicing via spliceosome [GO:0000398 biological_process] (2); RNA processing [GO:0006396 biological_process] (1)	Tetratricopeptide-like helical domain [IPRO11990] (2); Pre-mRNA-processing factor 6/Ppl1/STAF [IPRO27108] (2); HAT (Half-A-TPR) repeat [IPRO03107] (1); Tetratricopeptide repeat-containing domain [IPRO13026] (1)	scaffold_5_mRNA_3659.1	C_unshiu_00224_mRNA_6.1	-
GF0022749	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_3656.1	C_unshiu_00224_mRNA_1.1	-
GF0022748	1	1	0	Inosine-uridine preferring nucleoside hydrolase (2)	signal transducer activity [GO:0004871 molecular_function] (2); phosphorylation signal transduction system [GO:0000166 biological_process] (2)	Inosine/uridine-preferring nucleoside hydrolase [IPRO23186] (2); Inosine/uridine-preferring nucleoside hydrolase domain [IPRO01910] (2)	scaffold_5_mRNA_3629.1	C_unshiu_00453_mRNA_3.1	-
GF0022747	1	1	0	Histidine-containing phosphotransfer protein 4 (2)		Signal transduction histidine kinase, phosphotransfer (Hpt) domain [IPRO08207] (2)	scaffold_5_mRNA_3627.1	C_unshiu_00226_mRNA_4.1	-
GF0022745	1	1	0	Hypothetical protein (2)	integral component of membrane [GO:0016021 cellular_component] (2); transmembrane transporter activity [GO:0022857 molecular_function] (2); transmembrane transport [GO:0055085 biological_process] (2)	Major facilitator, sugar transporter-like [IPRO05238] (2); Major facilitator superfamily domain [IPRO20846] (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)			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)	regulation of transcription, DNA-templated [GO:0006355 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 [IPRO01471] (2); DNA-binding domain [IPRO01617] (2); Frigida-like [IPRO12474] (1)	scaffold_5_mRNA_3546.1	C_unshiu_00433_mRNA_23.1	-
GF0022736	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_3506.1	C_unshiu_00339_mRNA_22.1	-
GF0022735	1	1	0	Hypothetical protein (2)		Frigida-like [IPRO12474] (2); DYW domain [IPRO32867] (2); Tetratricopeptide-like helical domain [IPRO11990] (2); Pentatricopeptide repeat [IPRO02885] (2)	scaffold_5_mRNA_3502.1	C_unshiu_00339_mRNA_13.1	-
GF0022730	1	1	0	Pentatricopeptide repeat-containing family protein (2)	zinc ion binding [GO:0008270 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2)		scaffold_5_mRNA_3439.1	C_unshiu_00205_mRNA_16.1	-
GF0022727	1	1	0	Gluathione S-transferase zeta class (2)	protein binding [GO:0005515 molecular_function] (2)	Thioredoxin-like fold [IPRO12336] (2); Glutathione S-transferase, N-terminal [IPRO04045] (2); Glutathione S-transferase, C-terminal-like [IPRO10987] (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)	P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); NB-ARC [IPRO02182] (2)	scaffold_5_mRNA_3382.1	C_unshiu_02124_mRNA_1.1	-
GF0022725	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_3373.1	C_unshiu_02124_mRNA_2.1	-
GF0022724	1	1	0	Disease resistance protein (1); Disease resistance protein RPS2 (1)		Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Winged helix-turn-helix DNA-binding domain [IPRO11991] (1)	scaffold_5_mRNA_3369.1	C_unshiu_00660_mRNA_13.1	-
GF0022723	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_3366.1	C_unshiu_02743_mRNA_4.1	-
GF0022722	1	1	0	Phosphoprotein phosphatase isoform 3 (1); Cc-obs-lr resistance protein, putative isoform 1 (1)		Leucine-rich repeat domain, L domain-like [IPRO32675] (2)	scaffold_5_mRNA_3364.1	C_unshiu_00304_mRNA_19.1	-

ID	Num. in <i>C. caryophyllae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. caryophyllae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF0022721	1	1	0	NBS-LRR type disease resistance protein (2)	ADP binding [GO:004533] molecular_function (2)	P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); NB-ARC [IPRO02182] (2)	scaffold_5_mRNA_3352.1	C_unshiu_00570_mRNA_20.1	-
GF0022720	1	1	0	Hypothetical protein (2)	GTP binding [GO:000525] molecular_function (2); small GTPase mediated signal transduction [GO:007264] biological_process (2)	P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); Mitochondrial Rho-like [IPRO13684] (1); Small GTPase superfamily [IPRO01806] (1)	scaffold_5_mRNA_335.1	C_unshiu_02357_mRNA_3.1	-
GF0022719	1	1	1	Disease resistance protein (CC-NBS-LRR class) family protein (1); Hypothetical protein (1)	protein binding [GO:0005515] molecular_function (2); binding [GO:0005488] molecular_function (2); ADP binding [GO:004533] molecular_function (1)	Armaldillo-like helical [IPRO11989] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Atypical Arm repeat [IPRO2413] (2); Armaldillo [IPRO0225] (2); Armaldillo-type fold [IPRO1604] (2); Winged helix-stem-helix DNA-binding domain [IPRO11991] (1); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (1); NB-ARC [IPRO02182] (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:0051082] molecular_function (2)	HSP40 DnaJ peptide-binding [IPRO08971] (2); Chaperone DnaJ, C-terminal [IPRO02939] (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:0008270] molecular_function (2); protein binding [GO:0005515] molecular_function (2)	Zinc finger, RINGFYVE/PHD-type [IPRO13083] (2); E3 ubiquitin ligase RBR family [IPRO3127] (2); Zinc finger, RING-type [IPRO01841] (2)	scaffold_5_mRNA_3264.1	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)	RNA polymerase Rpb1, domain 1 [IPRO07080] (1)	scaffold_5_mRNA_3264.1	C_unshiu_01156_mRNA_4.1	-
GF0022707	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677] molecular_function (2); transcription, DNA-templated [GO:0006351] biological_process (2); DNA-directed RNA polymerase activity [GO:0003899] molecular_function (1); DNA-directed 5'-3' RNA polymerase activity [GO:0003899] molecular_function (1)	RNA polymerase Rpb1, domain 5 [IPRO07081] (2)	scaffold_5_mRNA_3263.1	C_unshiu_01156_mRNA_3.1	-
GF0022706	1	1	0	Small rubber particle protein (2)		Rubber elongation factor [IPRO08802] (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 [IPRO25960] (2); Ribonuclease H-like domain [IPRO12337] (2)	scaffold_5_mRNA_3199.1	C_unshiu_00361_mRNA_12.1	-
GF0022693	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_314.1	C_unshiu_01061_mRNA_15.1	-
GF0022692	1	1	0	Hypothetical protein (2)	metal ion binding [GO:0046872] molecular_function (1)	Zinc finger, CCCH-type [IPRO00571] (1)	scaffold_5_mRNA_3136.1	C_unshiu_00888_mRNA_13.1	-
GF0022691	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_3130.1	C_unshiu_01691_mRNA_5.1	-
GF0022690	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_3127.1	C_unshiu_00755_mRNA_2.1	-
GF0022689	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515] molecular_function (2); iron ion binding [GO:0005506] molecular_function (2); heme binding [GO:0020037] 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); monooxygenase activity [GO:0004497] molecular_function (1)	SH3 domain [IPRO01452] (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 [IPRO17972] (2); Cytochrome P450 [IPRO01128] (2); Cytochrome P450, E-class, group I [IPRO02401] (1); Cytochrome P450, E-class, group IV [IPRO02403] (1)	scaffold_5_mRNA_31.1	C_unshiu_00230_mRNA_54.1	-
GF0022686	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_3097.1	C_unshiu_02001_mRNA_3.1	-
GF0022685	1	1	0	Ras-like GTP-binding protein YPT1 (2)	GTP binding [GO:000525] molecular_function (2); GTPase activity [GO:0003924] molecular_function (2); signal transduction [GO:0007165] biological_process (1); intracellular protein transport [GO:0006886] biological_process (1); intracellular [GO:0005622] cellular_component (1); nucleocytoplasmic transport [GO:0006913] biological_process (1); small GTPase mediated signal transduction [GO:0007264] biological_process (1); membrane [GO:0016020] cellular_component (1); protein transport [GO:0015031] biological_process (1)	Small GTP-binding protein domain [IPRO05225] (2); Small GTPase superfamily [IPRO01806] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); Ras GTPase [IPRO02041] (1); Small GTPase superfamily, ARF type [IPRO24156] (1); Small GTPase superfamily, Rab type [IPRO03579] (1); Small GTPase superfamily, Rho type [IPRO03578] (1); Small GTPase superfamily, Ras type [IPRO20849] (1)	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:0005515] molecular_function (2)	Leucine-rich repeat [IPRO01611] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Leucine-rich repeat, typical sub-type [IPRO03591] (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)	CoA-binding protein, ACBP [IPRO0552] (2); FERRUCY-CoA-binding protein, 3-helical bundle [IPRO14352] (2)	scaffold_5_mRNA_3066.1	C_unshiu_00061_mRNA_32.1	-
GF0022678	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_3055.1	C_unshiu_00061_mRNA_45.1	-
GF0022677	1	1	0	Hypothetical protein (2)			scaffold_5_mRNA_3054.1	C_unshiu_00061_mRNA_46.1	-
GF0022676	1	1	0	Transcription factor MYB39 (2)	DNA binding [GO:0003677] molecular_function (2)	Myb domain [IPRO17930] (2); SANT/Myb domain [IPRO01005] (2); Homeobox domain-like [IPRO09057] (1); Homeobox-like [IPRO09057] (1); EF-Hand 1, calcium-binding site [IPRO18247] (2); EF-hand domain [IPRO20288] (2); EF-hand domain pair [IPRO11992] (2)	scaffold_5_mRNA_3048.1	C_unshiu_00671_mRNA_11.1	-
GF0022672	1	1	0	Calmodulin (2)	calcium ion binding [GO:0005509] molecular_function (2)	SANT/Myb domain [IPRO01005] (2); Myb domain, plants [IPRO06447] (2); Homeobox domain-like [IPRO09057] (1); Homeobox domain-like [IPRO09057] (1)	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 [IPRO01005] (2); Myb domain, plants [IPRO06447] (2); Homeobox domain-like [IPRO09057] (1); Homeobox domain-like [IPRO09057] (1)	scaffold_5_mRNA_3012.1	C_unshiu_00078_mRNA_33.1	-
GF0022670	1	1	0	Hypothetical protein (2)			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)	Ribonuclease H-like domain [IPRO12337] (2); T82/DP1/HVA22-related protein [IPRO08345] (1)	scaffold_5_mRNA_3.1	C_unshiu_02167_mRNA_1.1	-
GF0022662	1	1	0	Ankyrin repeat plant-like protein (2)	protein binding [GO:0005515] molecular_function (2)	Ankyrin repeat [IPRO02110] (2); Ankyrin repeat-containing domain [IPRO20683] (2); PGD domain [IPRO26961] (2)	scaffold_5_mRNA_2931.1	C_unshiu_00040_mRNA_14.1	-
GF0022661	1	1	0	Putative retroelement pol polyprotein (1); Retrovirus-related Pol polyprotein from transposon TMT_104 (1)	DNA integration [GO:0015074] biological_process (2); nucleic acid binding [GO:0003676] molecular_function (2)	Ribonuclease H-like domain [IPRO12337] (2); Integrase, catalytic core [IPRO01584] (2); GAG-pre-integrase domain [IPRO25724] (2)	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:005114] biological_process (2); iron ion binding [GO:0005506] molecular_function (2); heme binding [GO:0020037] molecular_function (2)	Cytochrome P450, conserved site [IPRO17972] (2); Cytochrome P450, E-class, group I [IPRO02401] (2); Cytochrome P450 [IPRO01128] (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 poly(A)-specific ribonuclease subunit PAB3 (1)		Domain of unknown function DUF1336 [IPRO09769] (1); Protein ENHANCED DISEASE RESISTANCE 2, C-terminal [IPRO09769] (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:004533] molecular_function (2)	Leucine-rich repeat domain, L domain-like [IPRO32675] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); NB-ARC [IPRO02182] (2); Winged helix-stem-helix DNA-binding domain [IPRO11991] (1); AAA+ ATPase domain [IPRO03593] (1)	scaffold_5_mRNA_2840.1	C_unshiu_01806_mRNA_3.1	-
GF0022650	1	1	0	Hypothetical protein (2)		Protein ENHANCED DISEASE RESISTANCE 2, C-terminal [IPRO09769] (1); Domain of unknown function DUF1336 [IPRO09769] (1)	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. clementinae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliate</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliate</i>
GF0022294	1	1	0	Hypothetical protein (2)	COP1 vesicle coat [GO:0030127 cellular_component] (2); zinc ion binding [GO:0008270 molecular_function] (2); intracellular protein transport [GO:0006886 biological_process] (2); ER to Golgi vesicle-mediated transport [GO:0006888 biological_process] (2)	Zinc finger, Sec23/Sec24-type [IPR006895] (2); von Willebrand factor, type A [IPR020351] (2); Sec23/Sec24, trunk domain [IPR006896] (2); ADP-H/Gelsolin-like domain [IPR029006] (2); Gelsolin-like domain [IPR007123] (2)	scaffold_5_mRNA_1040.1	C_unshii_00989_mRNA_2.1	-
GF0022292	1	1	0	Hypothetical protein (2)		Gag-polypeptide of LTR copia-type [IPR029472] (1)	scaffold_5_mRNA_1027.1	C_unshii_00946_mRNA_8.1	-
GF0022291	1	1	0	Hypothetical protein (2)		LEG family [IPR011100] (2)	scaffold_5_mRNA_1025.1	C_unshii_00946_mRNA_10.1	-
GF0022290	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4283 [IPR025558] (2)	scaffold_5_mRNA_1024.1	C_unshii_00946_mRNA_11.1	-
GF0022289	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 domain [IPR002156] (2); Ribonuclease H-like domain [IPR012337] (2); TB2-DPI/HVA22-related protein [IPR004345] (1)	scaffold_5_mRNA_1020.1	C_unshii_00946_mRNA_14.1	-
GF0022288	1	1	0	Hypothetical protein (2)		S-adenosyl-L-methionine-dependent methyltransferase [IPR020631] (2)	scaffold_5_mRNA_102.1	C_unshii_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 [IPR01878] (2); Domain of unknown function DUF4283 [IPR025558] (2)	scaffold_5_mRNA_1009.1	C_unshii_00083_mRNA_14.1	-
GF0022285	1	1	0	Hypothetical protein (2)		Transposon, En/Spm-like [IPR004242] (2); Transposase-associated domain [IPR029480] (2)	scaffold_5_mRNA_1002.1	C_unshii_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_unshii_01189_mRNA_5.1	-
GF0022283	1	1	0	Hypothetical protein (2)	serine-type peptidase activity [GO:0008236 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Peptidase S28 [IPR008758] (2)	scaffold_4_mRNA_997.1	C_unshii_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: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, typical subtype [IPR003591] (2); Protein kinase, ATP binding site [IPR017441] (2); Tyrosine-protein kinase, active site [IPR008266] (2); Leucine-rich repeat [IPR01611] (2); Concavalin A-like lectin/glucanase domain [IPR013320] (1)	scaffold_4_mRNA_995.1	C_unshii_01189_mRNA_1.1	-
GF0022281	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_984.1	C_unshii_00715_mRNA_2.1	-
GF0022280	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Zinc finger C2H2-type [IPR013087] (1)	scaffold_4_mRNA_983.1	C_unshii_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:0005515 molecular_function] (1)	Protein kinase, ATP binding site [IPR017441] (2); Protein kinase domain [IPR000719] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Protein kinase-like domain [IPR011009] (2); Leucine-rich repeat [IPR01611] (1); Leucine-rich repeat, typical subtype [IPR003591] (1); Concavalin A-like lectin/glucanase domain [IPR013320] (1)	scaffold_4_mRNA_981.1	C_unshii_00715_mRNA_4.1	-
GF0022278	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPR032675] (2); Leucine-rich repeat [IPR01611] (2)	scaffold_4_mRNA_980.1	C_unshii_00715_mRNA_5.1	-
GF0022277	1	1	0	Hypothetical leucine rich repeat protein (2)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat domain, L domain-like [IPR032675] (2); Leucine-rich repeat [IPR01611] (2)	scaffold_4_mRNA_977.1	C_unshii_00715_mRNA_8.1	-
GF0022276	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_974.1	C_unshii_00715_mRNA_11.1	-
GF0022275	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_973.1	C_unshii_00715_mRNA_12.1	-
GF0022274	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_971.1	C_unshii_00715_mRNA_14.1	-
GF0022271	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_950.1	C_unshii_00013_mRNA_72.1	-
GF0022270	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_943.1	C_unshii_00013_mRNA_61.1	-
GF0022269	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF1985 [IPR015410] (2)	scaffold_4_mRNA_942.1	C_unshii_00013_mRNA_60.1	-
GF0022268	1	1	0	Hypothetical protein (2)	GTPase activity [GO:0003924 molecular_function] (2); GTP binding [GO:0005525 molecular_function] (2); protein transport [GO:0015031 biological_process] (1); intracellular protein transport [GO:0006886 biological_process] (1); intracellular [GO:0005622 cellular_component] (1); signal transduction [GO:0007165 biological_process] (1); membrane [GO:0016020 cellular_component] (1); nucleocytoplasmic transport [GO:0006913 biological_process] (1); small GTPase mediated signal transduction [GO:0007264 biological_process] (1)	Sigma-54 interaction domain, ATP-binding site 1 [IPR025621] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Small GTPase superfamily [IPR013086] (2); Small GTP-binding protein domain [IPR005225] (2); Small GTPase superfamily, Rab type [IPR003579] (1); Small GTPase superfamily, ARF type [IPR024341] (1); Ras GTPase [IPR020411] (1); Small GTPase superfamily, Rho type [IPR003578] (1); Small GTPase superfamily, Ras type [IPR020491] (1)	scaffold_4_mRNA_941.1	C_unshii_00013_mRNA_59.1	-
GF0022267	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_940.1	C_unshii_00013_mRNA_58.1	-
GF0022266	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_938.1	C_unshii_00013_mRNA_56.1	-
GF0022265	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4283 [IPR025558] (2)	scaffold_4_mRNA_926.1	C_unshii_00013_mRNA_44.1	-
GF0022264	1	1	0	Putative transporter MCH1 (2)		Nodulin-like [IPR010658] (2); Major facilitator superfamily domain [IPR020846] (2)	scaffold_4_mRNA_921.1	C_unshii_00013_mRNA_41.1	-
GF0022263	1	1	0	Putative calcium-binding protein CML15 (2)	calcium ion binding [GO:0005509 molecular_function] (2)	EF-hand domain [IPR02048] (2); EF-Hand 1, calcium-binding site [IPR018247] (2); EF-hand domain pair [IPR011992] (2)	scaffold_4_mRNA_92.1	C_unshii_00202_mRNA_13.1	-
GF0022262	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4283 [IPR025558] (1)	scaffold_4_mRNA_909.1	C_unshii_00013_mRNA_29.1	-
GF0022261	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_900.1	C_unshii_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)	Upl1 protease family, C-terminal catalytic domain [IPR003653] (2)	scaffold_4_mRNA_898.1	C_unshii_00013_mRNA_16.1	-
GF0022258	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_4_mRNA_892.1	C_unshii_00013_mRNA_12.1	-
GF0022257	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_887.1	C_unshii_00013_mRNA_6.1	-
GF0022256	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_879.1	C_unshii_00280_mRNA_31.1	-
GF0022254	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_873.1	C_unshii_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)	Leucine-rich repeat domain, L domain-like [IPR032675] (2); Protein kinase-like domain [IPR011009] (2); Leucine-rich repeat, typical subtype [IPR003591] (2); Protein kinase domain [IPR000719] (2); Leucine-rich repeat [IPR01611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); Protein kinase, ATP binding site [IPR017441] (2); Tyrosine-protein kinase, active site [IPR008266] (2); Concavalin A-like lectin/glucanase domain [IPR013320] (1); Serine/threonine/tyrosine-protein kinase catalytic domain [IPR001245] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR02290] (1); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPR001245] (1)	scaffold_4_mRNA_871.1	C_unshii_00280_mRNA_22.1	-
GF0022252	1	1	0	Hypothetical protein (2)		Leucine-rich repeat, typical subtype [IPR003591] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Protein kinase-like domain [IPR011009] (2); Protein kinase domain [IPR000719] (2); Leucine-rich repeat [IPR01611] (2); Protein kinase, ATP binding site [IPR017441] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); Concavalin A-like lectin/glucanase domain [IPR013320] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR02290] (1)	scaffold_4_mRNA_866.1	C_unshii_03100_mRNA_1.1	-
GF0022249	1	1	0	Hypothetical protein (2)	cysteine-type peptidase activity [GO:0008234 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Upl1 protease family, C-terminal catalytic domain [IPR003653] (2); Domain of unknown function DUF1985 [IPR015410] (2)	scaffold_4_mRNA_863.1	C_unshii_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_unshii_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 [IPR003656] (2); HAT, C-terminal dimerisation domain [IPR00986] (2); Zinc finger C2H2-type [IPR013087] (1)	scaffold_4_mRNA_861.1	C_unshii_00258_mRNA_35.1	-
GF0022246	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_860.1	C_unshii_00258_mRNA_34.1	-



ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</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, phorbol ester/diacylglycerol-binding domain [IPR00219] (2); DC1 [IPR004146] (1); Cl-like [IPR01424] (1)	scaffold_4_mRNA_374.1	C_unshiu_00459_mRNA_10.1	-
GF0022172	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_368.1	C_unshiu_00459_mRNA_4.1	-
GF0022171	1	1	0	Hypothetical protein (2)		X8 domain [IPR012946] (2)	scaffold_4_mRNA_367.1	C_unshiu_00459_mRNA_3.1	-
GF0022170	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_359.1	C_unshiu_00979_mRNA_23.1	-
GF0022169	1	1	0	Thioredoxin HP (2)	cell redox homeostasis [GO:004544 biological_process] (2); glycerol ether metabolic process [GO:0006662 biological_process] (2); protein disulfide oxidoreductase activity [GO:0015035 molecular_function] (2)	Thioredoxin-like fold [IPR012335] (2); Thioredoxin domain [IPR013766] (2); Thioredoxin [IPR005746] (2)	scaffold_4_mRNA_346.1	C_unshiu_00979_mRNA_10.1	-
GF0022168	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_341.1	C_unshiu_00979_mRNA_5.1	-
GF0022163	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_3263.1	C_unshiu_00001_mRNA_358.1	-
GF0022161	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_325.1	C_unshiu_00299_mRNA_34.1	-
GF0022160	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:0006468 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2); protein serine/threonine kinase activity [GO:0004674 molecular_function] (2)	Bull-type lectin domain [IPR001480] (2); Serine/threonine-protein kinase, active site [IPR008271] (2); Protein kinase, ATP binding site [IPR017441] (2); Protein kinase-like domain [IPR011009] (2); S-receptor-like serine/threonine-protein kinase [IPR02471] (2); Protein kinase domain [IPR000719] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002390] (1); Concanavalin A-like lectin glucanase domain [IPR013320] (1)	scaffold_4_mRNA_3240.1	C_unshiu_00001_mRNA_377.1	-
GF0022159	1	1	0	DEAD-box ATP-dependent RNA helicase (2)	nucleic acid binding [GO:0003676 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2)	Helicase superfamily 1/2, ATP-binding domain [IPR014001] (2); RNA helicase, DEAD-box type, 0 motif [IPR014014] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); ATP-dependent RNA helicase DEAD-box, conserved site [IPR00929] (2); DEAD/DEAH box helicase domain [IPR011545] (2)	scaffold_4_mRNA_324.1	C_unshiu_00299_mRNA_33.1	-
GF0022158	1	1	0	Hypothetical protein (1); Putative 0 micromolar linker histone polypeptide-like (1)	protein binding [GO:0005515 molecular_function] (2); protein-N-terminal asparagine amidohydrolase activity [GO:0008418 molecular_function] (1); DNA binding [GO:0005677 molecular_function] (1)	Bromodomain, conserved site [IPR018359] (2); Bromodomain [IPR001487] (2); Protein-N-terminal asparagine amidohydrolase [IPR026750] (1); Homeobox domain-like [IPR009057] (1); SANT/Myb domain [IPR01005] (1)	scaffold_4_mRNA_3236.1	C_unshiu_00001_mRNA_381.1	-
GF0022157	1	1	0	Homeobox-leucine zipper protein HAT14 (2)	DNA binding [GO:0003677 molecular_function] (2); sequence-specific DNA binding [GO:0043565 molecular_function] (2); regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); transcription factor activity, sequence-specific DNA binding [GO:0003700 molecular_function] (2)	Homeobox domain [IPR001356] (2); Leucine zipper, homeobox-associated [IPR003106] (2); Homeobox-like [IPR009057] (1); Homeobox domain-like [IPR009057] (1)	scaffold_4_mRNA_3233.1	C_unshiu_00001_mRNA_383.1	-
GF0022156	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_3231.1	C_unshiu_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)	Ribonuclease H-like domain [IPR012337] (2); Reverse transcriptase zinc-binding domain [IPR026960] (2); Endonuclease/exonuclease/phosphatase [IPR005155] (2); Vacuolar protein sorting-associated protein 62 [IPR009291] (1)	scaffold_4_mRNA_3218.1	C_unshiu_00001_mRNA_400.1	-
GF0022154	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_321.1	C_unshiu_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)	CheY-like superfamily [IPR011006] (2); Signal transduction response regulator, receiver domain [IPR001789] (2)	scaffold_4_mRNA_320.1	C_unshiu_00299_mRNA_29.1	-
GF0022151	1	1	0	Ras-related protein Rab11A (2)	GTP binding [GO:0005525 molecular_function] (2); GTPase activity [GO:0003924 molecular_function] (2); small GTPase mediated signal transduction [GO:0007264 biological_process] (1); nucleocytoplasmic transport [GO:0006913 biological_process] (1); membrane [GO:0016020 cellular_component] (1); signal transduction [GO:0007165 biological_process] (1); intracellular protein transport [GO:0006886 biological_process] (1); intracellular [GO:0005622 cellular_component] (1); protein transport [GO:0015031 biological_process] (1)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Small GTPase superfamily [IPR001806] (2); Small GTP-binding protein domain [IPR005225] (2); Small GTPase superfamily, Ras type [IPR020849] (1); Small GTPase superfamily, Rho type [IPR003578] (1); Small GTPase superfamily, ARF type [IPR024156] (1); Small GTPase superfamily, Rab type [IPR003579] (1); Ran GTPase [IPR002041] (1)	scaffold_4_mRNA_3195.1	C_unshiu_00001_mRNA_317.1	-
GF0022150	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_3193.1	C_unshiu_00001_mRNA_315.1	-
GF0022149	1	1	0	Tecophilin O-methyltransferase (1); Steroid methyltransferase-like 3 (1)	methyltransferase activity [GO:0008168 molecular_function] (1); metabolic process [GO:0008152 biological_process] (1); steroid biosynthetic process [GO:0006694 biological_process] (1)	SAM-dependent methyltransferase SAMT type [IPR003084] (1); Methyltransferase type 11 [IPR013216] (1); S-adenosyl-L-methionine dependent methyltransferase [IPR029063] (1); Steroid methyltransferase C-terminal [IPR013705] (1)	scaffold_4_mRNA_3192.2	C_unshiu_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:0005634 cellular_component] (2); DNA binding [GO:0003677 molecular_function] (2)	B3 DNA binding domain [IPR003340] (2); Leucine-rich repeat domain, L domain-like [IPR02675] (2); DNA-binding prokaryote domain [IPR015300] (2); Auxin response factor [IPR010525] (2); Receptor L-domain [IPR00494] (1)	scaffold_4_mRNA_3177.1	C_unshiu_00001_mRNA_299.1	-
GF0022146	1	1	0	Disease resistance protein (1); NB-ARC domain disease resistance protein (1)	ADP binding [GO:0043531 molecular_function] (1)	Leucine-rich repeat domain, L domain-like [IPR02675] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1); NB-ARC [IPR002182] (1)	scaffold_4_mRNA_3176.1	C_unshiu_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:0016787 molecular_function] (2)	Purple acid phosphatase-like, N-terminal [IPR009653] (2); Metallo-dependent phosphatase-like [IPR029052] (2); Iron zinc purple acid phosphatase-like C-terminal domain [IPR025733] (2); Purple acid phosphatase, N-terminal [IPR015914] (2); Calcineurin-like phosphoesterase domain, apaf type [IPR004843] (1); Neocarzinostatin-like [IPR027273] (1); Calcineurin-like phosphoesterase domain, Apaf type [IPR004843] (1)	scaffold_4_mRNA_3144.1	C_unshiu_00001_mRNA_271.1	-
GF0022142	1	1	0	Cytochrome P450 (2)	iron ion binding [GO:0005506 molecular_function] (2); heme binding [GO:0020037 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)	Cytochrome P450, E-class, group I [IPR02401] (2); Cytochrome P450, conserved site [IPR017972] (2); Cytochrome P450 [IPR001128] (2)	scaffold_4_mRNA_314.1	C_unshiu_00299_mRNA_23.1	-
GF0022140	1	1	0	Putative polyomucleotide adenyltransferase family protein-like (1); Polyomucleotide adenyltransferase family protein (1)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_4_mRNA_3122.1	C_unshiu_00001_mRNA_246.1	-
GF0022138	1	1	0	Somatic embryogenesis receptor kinase (2)	protein binding [GO:0005515 molecular_function] (2); transmembrane receptor protein kinase activity [GO:0019199 molecular_function] (1)	Leucine-rich repeat domain, L domain-like [IPR02675] (2); Leucine-rich repeat [IPR01611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); Somatic embryogenesis receptor-like kinase [IPR031048] (1)	scaffold_4_mRNA_3109.1	C_unshiu_00001_mRNA_233.1	-
GF0022137	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_3102.1	C_unshiu_00001_mRNA_228.1	-
GF0022136	1	1	0	Hypothetical protein (2)	catalytic activity [GO:0003824 molecular_function] (2)	Alanine racemase/group IV decarboxylase, C-terminal [IPR009006] (2); Oxidation-reduction dehydrochlorase 2, C-terminal [IPR022643] (2)	scaffold_4_mRNA_310.1	C_unshiu_00299_mRNA_16.1	-
GF0022135	1	1	0	Hypothetical protein (2)	response to auxin [GO:0009733 biological_process] (1)	Retrosynposon gag domain [IPR005162] (1)	scaffold_4_mRNA_31.1	C_unshiu_00168_mRNA_38.1	-
GF0022134	1	1	0	SAUR family protein (2)	Small auxin-up RNA [IPR003676] (1)		scaffold_4_mRNA_3093.1	C_unshiu_00001_mRNA_219.1	-
GF0022133	1	1	0	Hypothetical protein (1); Alpha-1,4 glucan phosphorylase (1)	glycoen phosphorylase activity [GO:0008184 molecular_function] (2); carbohydrate metabolic process [GO:0005975 biological_process] (2)	Glycosyl transferase, family 35 [IPR000811] (2)	scaffold_4_mRNA_3087.1	C_unshiu_00001_mRNA_212.1	-
GF0022132	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_3084.1	C_unshiu_00001_mRNA_209.1	-



ID	Num. in <i>C. celeratae</i>	Num. in <i>C. acicola</i>	Num. in <i>P. trifoliate</i>	Note	GO	InterPro	Members in <i>C. celeratae</i>	Members in <i>C. acicola</i>	Members in <i>P. trifoliate</i>
GF0022131	1	1	0	Glycosyltransferase family 61 protein (2)	transferase activity, transferring glycosyl group [GO:010657]	Glycosyltransferase 61 [IPR007657] (1); Glycosyltransferase AER64, uncharacterised [IPR007657] (1)	scaffold_4_mRNA_3071.1	C_unshiu_00001_mRNA_196.1	-
GF0022130	1	1	0	Hypothetical protein (2)	transcription factor activity, sequence-specific DNA binding [GO:0003700]	AP2/ERF domain [IPR001471] (1); DNA-binding domain [IPR016177] (1); AP2/ERF transcription factor ERF/PT16 [IPR017392] (1)	scaffold_4_mRNA_3055.1	C_unshiu_00001_mRNA_194.1	-
GF0022129	1	1	0	AP2/ERF domain transcription factor (2)	transcription, DNA-templated [GO:0006355 biological_process] (1); DNA binding [GO:0003677 molecular_function] (1)	EXS, C-terminal [IPR004342] (2); SPX domain [IPR004331] (2); PHO1, SPX domain [IPR034062] (1)	scaffold_4_mRNA_3044.1	C_unshiu_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:0016021 cellular_component] (2)	scaffold_4_mRNA_3044.1	C_unshiu_00001_mRNA_168.1	-
GF0022125	1	1	0	Galactoside 2-alpha-L-fucosyltransferase (2)	galactoside 2-alpha-L-fucosyltransferase activity [GO:0008107 molecular_function] (2)	Xyloglucan fucosyltransferase [IPR004938] (2)	scaffold_4_mRNA_3040.1	C_unshiu_00001_mRNA_164.1	-
GF0022124	1	1	0	Expansin (2)	plant-type cell wall organization [GO:0009664 biological_process] (2); extracellular region [GO:0005576 cellular_component] (2)	Expansin Lol pl [IPR007118] (2); Expansin [IPR002963] (2); Expansin, cellulose-binding-like domain [IPR007117] (2); Expansin-pollen allergen, DPHB domain [IPR007112] (2); scaffold_4_mRNA_304.1 RfpA-like protein, double-psi beta-barrel domain [IPR009009] (1); RfpA-like double-psi beta-barrel domain [IPR009009] (1)	scaffold_4_mRNA_304.1	C_unshiu_00299_mRNA_10.1	-
GF0022122	1	1	0	Appr-1 processing enzyme family protein (2)	Macro domain [IPR002589] (2)	Macro domain [IPR002589] (2)	scaffold_4_mRNA_303.1	C_unshiu_00299_mRNA_9.1	-
GF0022121	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_300.1	C_unshiu_00001_mRNA_132.1	-
GF0022120	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_30.1	C_unshiu_00168_mRNA_39.1	-
GF0022118	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_299.1	C_unshiu_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)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); DEAD/DEAH box helicase domain [IPR011545] (2)	scaffold_4_mRNA_297.1	C_unshiu_00001_mRNA_97.1	-
GF0022114	1	1	0	Hypothetical protein (2)	tRNA (guanine-N2)-methyltransferase activity [GO:0004809 molecular_function] (2); tRNA processing [GO:0008033 biological_process] (2); RNA binding [GO:0003723 molecular_function] (2)	S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (2); tRNA methyltransferase, Tem1 [IPR029052] (2)	scaffold_4_mRNA_296.1	C_unshiu_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 [IPR020846] (2); Proton-dependent oligopeptide transporter family [IPR00109] (2)	scaffold_4_mRNA_294.1	C_unshiu_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:0055114 biological_process] (2)	Homoserine dehydrogenase, catalytic [IPR001342] (2); Gliothione S-transferase, C-terminal-like [IPR010987] (2); NAD(P)+binding domain [IPR016040] (2)	scaffold_4_mRNA_293.1	C_unshiu_00001_mRNA_59.1	-
GF0022110	1	1	0	TIR-NBS-LRR disease resistance protein (2)	protein binding [GO:0005515 molecular_function] (2); ADP binding [GO:0043531 molecular_function] (2); signal transduction [GO:0007165 biological_process] (2)	Leucine-rich repeat domain, L domain-like [IPR032675] (3); Leucine-rich repeat, typical subtype [IPR003591] (2); Toll/interleukin-1 receptor homology (TIR) domain [IPR000157] (2); NB-ARC [IPR02182] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (1)	scaffold_4_mRNA_292.1	C_unshiu_00001_mRNA_45.1	-
GF0022109	1	1	0	Hypothetical protein (1); Ribosomal protein S26 (1)	structural constituent of ribosome [GO:0003735 molecular_function] (2); translation [GO:0006412 biological_process] (2); intracellular [GO:0005622 cellular_component] (2); ribosome [GO:0008404 cellular_component] (2)	Ribosomal protein S26e [IPR000892] (2)	scaffold_4_mRNA_292.1	C_unshiu_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); ATP binding [GO:0005524 molecular_function] (2); protein binding [GO:0005515 molecular_function] (1)	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 catalytic domain [IPR012451] (1); Leucine-rich repeat [IPR016111] (1); Serine-threonine/tyrosine-protein kinase, catalytic domain [IPR012451] (1); Concanavalin A-like lectin/glucanase domain [IPR013320] (1)	scaffold_4_mRNA_291.1	C_unshiu_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 [IPR011320] (2); Ribonuclease H-like domain [IPR012337] (2)	scaffold_4_mRNA_290.1	C_unshiu_00001_mRNA_23.1	-
GF0022106	1	1	0	Putative rase H family protein (2)			scaffold_4_mRNA_288.1	C_unshiu_00001_mRNA_6.1	-
GF0022105	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_288.1	C_unshiu_00004_mRNA_11.1	-
GF0022104	1	1	0	Hypothetical protein (2)	transmembrane transporter activity [GO:0022857 molecular_function] (2); membrane [GO:0016020 cellular_component] (2); integral component of membrane [GO:0016021 cellular_component] (2)	WAT1-related protein [IPR030184] (2); EamA domain [IPR000620] (2); Poliamin-like domain [IPR00502] (1)	scaffold_4_mRNA_287.1	C_unshiu_00004_mRNA_16.1	-
GF0022103	1	1	0	Nodulin MN2/EamA-like transporter family protein (2)	integral component of membrane [GO:0016021 cellular_component] (2); transmembrane transporter activity [GO:0022857 molecular_function] (2); membrane [GO:0016020 cellular_component] (2)	EamA domain [IPR000620] (2); WAT1-related protein [IPR030184] (2)	scaffold_4_mRNA_287.1	C_unshiu_00004_mRNA_20.1	-
GF0022102	1	1	0	Cytochrome P450 82A4 (2)	heme binding [GO:0020037 molecular_function] (2); iron ion 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:0055114 biological_process] (2)	Cytochrome P450 [IPR001128] (2); Cytochrome P450, conserved site [IPR017972] (2); Cytochrome P450, E-class, group I [IPR002401] (2)	scaffold_4_mRNA_285.1	C_unshiu_01756_mRNA_4.1	-
GF0022101	1	1	0	HD domain-containing metal-dependent phosphohydrolase family protein isoform 1 (1); HD domain-containing metal-dependent phosphohydrolase family protein isoform 2 (1)		HD domain [IPR006674] (2); HD/PEase domain [IPR03607] (2)	scaffold_4_mRNA_284.1	C_unshiu_00004_mRNA_43.1	-
GF0022099	1	1	0	Glabrous 1 (1); Hypothetical protein (1)	DNA binding [GO:0003677 molecular_function] (2)	SANT/Myb domain [IPR01005] (2); Myb-like domain [IPR017877] (1); Myb domain [IPR017930] (1); Homeobox domain-like [IPR009057] (1); Homosodomain-like [IPR009057] (1)	scaffold_4_mRNA_284.1	C_unshiu_00004_mRNA_51.1	-
GF0022098	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_284.1	C_unshiu_01756_mRNA_3.1	-
GF0022096	1	1	0	Pyroldone-carboxylate peptidase family protein (2)	pyroglutamy-peptidase activity [GO:0016920 molecular_function] (2); cytosol [GO:0005829 cellular_component] (2); proteolysis [GO:0006508 biological_process] (2)	Peptidase C15, pyroglutamy peptidase I [IPR00816] (2); Peptidase C15, pyroglutamy peptidase I-like [IPR016125] (2); Pyroglutamy peptidase I, Cys active site [IPR033694] (1)	scaffold_4_mRNA_281.1	C_unshiu_00004_mRNA_69.2	-
GF0022095	1	1	0	UDP-N-acetylglucosamine-N-acetylmannamyl-phosphoryl-muricaproneol N-acetylglucosamine transferase isoform 5 (2)			scaffold_4_mRNA_281.1	C_unshiu_00004_mRNA_77.1	-
GF0022094	1	1	0	Signal recognition particle receptor subunit beta (2)	GTP binding [GO:0005525 molecular_function] (2); intracellular [GO:0005622 cellular_component] (2); small GTPase mediated signal transduction [GO:0007264 biological_process] (2)	Small GTPase superfamily, ARF type [IPR024156] (2); Signal recognition particle receptor, beta subunit [IPR019099] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2)	scaffold_4_mRNA_281.1	C_unshiu_00004_mRNA_78.1	-
GF0022091	1	1	0	Hypothetical protein (2)	carbon-sulfur lyase activity [GO:0016846 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 [IPR006948] (1)	scaffold_4_mRNA_279.1	C_unshiu_00004_mRNA_95.1	-
GF0022090	1	1	0	Hypothetical protein (2)		Protein of unknown function DU4228, plant [IPR025322] (2)	scaffold_4_mRNA_279.1	C_unshiu_00004_mRNA_97.1	-
GF0022089	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_279.1	C_unshiu_00058_mRNA_74.1	-

ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF0022088	1	1	0	Hypothetical protein (2)	clathrin adaptor complex [GO:0030131 cellular_component] (2); intracellular protein transport [GO:0006886 biological_process] (2); transport [GO:0006810 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 [IPRO08271] (2); Protein kinase, ATP binding site [IPRO17441] (2); Longin-like domain [IPRO11012] (2); Protein kinase-like domain [IPRO11009] (2); Clathrin adaptor, mu subunit [IPRO01392] (2); Clathrin adaptor, mu subunit, conserved site [IPRO18240] (2); AP complex, mu-sigma subunit [IPRO22751] (2); Protein kinase domain [IPRO00719] (2); Mu homology domain [IPRO28565] (2); Serine/threonine dual specificity protein kinase, catalytic domain [IPRO12290] (1); Concavallin A-like lectin/glucanase domain [IPRO13320] (1)	scaffold_4_mRNA_2776.1	C_unshii_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 [IPRO01911] (2)	scaffold_4_mRNA_2751.1	C_unshii_00004_mRNA_140.1	-
GF0022086	1	1	0	Protein terminal ear1 (2)	nucleic acid binding [GO:0003676 molecular_function] (2); nucleoside binding [GO:0000166 molecular_function] (1)	RNA recognition motif domain [IPRO05094] (2); Terminal EAR1-like, RNA recognition motif 3 [IPRO34458] (1); Mc2/Mc2-like, C-terminal RNA recognition motif [IPRO07011] (1); RNA recognition motif 2 [IPRO07201] (1); Nucleotide-binding alpha-beta plat domain [IPRO12677] (1)	scaffold_4_mRNA_2729.1	C_unshii_00004_mRNA_165.1	-
GF0022084	1	1	0	E3 ubiquitin-protein ligase mb1 (2)	protein binding [GO:0005515 molecular_function] (2)	Ankyrin repeat [IPRO02110] (2); Ankyrin repeat-containing domain [IPRO20683] (2)	scaffold_4_mRNA_2686.1	C_unshii_00010_mRNA_37.1	-
GF0022083	1	1	0	Putative F-box protein At1g67623 (2)	protein binding [GO:0005515 molecular_function] (1)	Tetratricopeptide-like helical domain [IPRO11900] (1); F-box domain [IPRO01810] (1)	scaffold_4_mRNA_2681.1	C_unshii_00010_mRNA_41.1	-
GF0022082	1	1	0	Ribosome silencing factor (2)	Protein lojap/ribosomal silencing factor RaS [IPRO04394] (2)	AAA-ATPase domain [IPRO03593] (1); AAA-type ATPase, N-terminal domain [IPRO27533] (1); P-loop containing nucleoside triphosphate hydrolase [IPRO27471] (1); ATPase, AAA-type, core [IPRO03599] (1); ATPase, AAA-type, conserved site [IPRO03960] (1)	scaffold_4_mRNA_2680.1	C_unshii_00010_mRNA_42.1	-
GF0022081	1	1	0	Putative mitochondrial chaperone hcs1 (2)	ATP binding [GO:0005524 molecular_function] (1)	Rubber elongation factor [IPRO08802] (2)	scaffold_4_mRNA_2639.1	C_unshii_00010_mRNA_82.1	-
GF0022078	1	1	0	Small rubber particle protein (2)	nucleus [GO:0005634 cellular_component] (2); DNA binding [GO:0003677 molecular_function] (2)	Transcription factor, SBP-box [IPRO04333] (2)	scaffold_4_mRNA_2627.1	C_unshii_00010_mRNA_98.1	-
GF0022077	1	1	0	Squamosa promoter-binding-like protein 12 (2)	DNA binding [GO:0003677 molecular_function] (2); nucleus [GO:0005634 cellular_component] (2)	Transcription factor, SBP-box [IPRO04333] (2)	scaffold_4_mRNA_2610.1	C_unshii_00010_mRNA_113.1	-
GF0022076	1	1	0	Squamosa promoter-binding-like protein 16 (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); DNA binding [GO:0003677 molecular_function] (2)	NAC domain [IPRO03441] (2)	scaffold_4_mRNA_2603.1	C_unshii_00010_mRNA_120.1	-
GF0022075	1	1	0	AT1G27990 protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); DNA binding [GO:0003677 molecular_function] (2)	Protein kinase-like domain [IPRO11009] (1)	scaffold_4_mRNA_2552.1	C_unshii_00015_mRNA_95.1	-
GF0022074	1	1	0	NAC domain-containing protein 29 (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); DNA binding [GO:0003677 molecular_function] (2)	Alpha/Beta hydrolase fold [IPRO29058] (2); Alpha/beta hydrolase fold-1 [IPRO00073] (2)	scaffold_4_mRNA_2546.1	C_unshii_00015_mRNA_89.1	-
GF0022072	1	1	0	Hypothetical protein (2)	carbohydrate metabolic process [GO:0005975 biological_process] (2); 6-phosphogluconolactonase activity [GO:0017057 molecular_function] (2); penicillinase activity [GO:0006098 biological_process] (2)	6-phosphogluconolactonase, DevB-type [IPRO05900] (2); Glucosamine/galactosamine-6-phosphate isomerase [IPRO06148] (2)	scaffold_4_mRNA_2538.2	C_unshii_00015_mRNA_81.3	-
GF0022070	1	1	0	Glucosamine/galactosamine-6-phosphate isomerase family protein (2)	carbohydrate metabolic process [GO:0005975 biological_process] (2); 6-phosphogluconolactonase activity [GO:0017057 molecular_function] (2); penicillinase activity [GO:0006098 biological_process] (2)	NTF2-like domain [IPRO032710] (2); Wound-induced protein, Wun1 [IPRO09798] (2)	scaffold_4_mRNA_253.1	C_unshii_00058_mRNA_47.1	-
GF0022069	1	1	0	Senescence associated gene 20, putative (2)	protein dimerization activity [GO:0046093 molecular_function] (2); nucleus [GO:0005634 cellular_component] (2); DNA binding [GO:0003677 molecular_function] (2); regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); transcription factor activity, sequence-specific DNA binding [GO:0003700 molecular_function] (2); RNA polymerase II regulatory region sequence-specific DNA binding [GO:0000977 molecular_function] (1); positive regulation of transcription from RNA polymerase II promoter [GO:0050944 biological_process] (1); MAPK cascade [GO:0000165 biological_process] (1); heme binding [GO:0020037 molecular_function] (2); iron ion 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:0005514 biological_process] (2)	Transcription factor, MADS-box [IPRO02100] (2); Transcription factor, K-box [IPRO02487] (2); MADS MEF2-like [IPRO33896] (1)	scaffold_4_mRNA_2524.1	C_unshii_00015_mRNA_66.1	-
GF0022068	1	1	0	Developmental protein SEPALLATA 2 (2)	transcription factor activity, sequence-specific DNA binding [GO:0003700 molecular_function] (2); RNA polymerase II regulatory region sequence-specific DNA binding [GO:0000977 molecular_function] (1); positive regulation of transcription from RNA polymerase II promoter [GO:0050944 biological_process] (1); MAPK cascade [GO:0000165 biological_process] (1); heme binding [GO:0020037 molecular_function] (2); iron ion 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:0005514 biological_process] (2)	Cytochrome P450, E-class, group I [IPRO02401] (2); Cytochrome P450 [IPRO01128] (2); Cytochrome P450, conserved site [IPRO17972] (1)	scaffold_4_mRNA_2518.1	C_unshii_00015_mRNA_58.1	-
GF0022067	1	1	0	Cytochrome P450 734A1 (2)	transcription factor activity, sequence-specific DNA binding [GO:0003700 molecular_function] (2); RNA polymerase II regulatory region sequence-specific DNA binding [GO:0000977 molecular_function] (1); positive regulation of transcription from RNA polymerase II promoter [GO:0050944 biological_process] (1); MAPK cascade [GO:0000165 biological_process] (1); heme binding [GO:0020037 molecular_function] (2); iron ion 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:0005514 biological_process] (2)	Cytochrome P450 [IPRO01128] (2); Cytochrome P450, E-class, group I [IPRO02401] (2); Cytochrome P450, conserved site [IPRO17972] (1)	scaffold_4_mRNA_2516.1	C_unshii_00015_mRNA_56.1	-
GF0022066	1	1	0	Cytochrome P450 734A1 (2)	transcription factor activity, sequence-specific DNA binding [GO:0003700 molecular_function] (2); RNA polymerase II regulatory region sequence-specific DNA binding [GO:0000977 molecular_function] (1); positive regulation of transcription from RNA polymerase II promoter [GO:0050944 biological_process] (1); MAPK cascade [GO:0000165 biological_process] (1); heme binding [GO:0020037 molecular_function] (2); iron ion 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:0005514 biological_process] (2)	Cytochrome P450 [IPRO01128] (2); Cytochrome P450, E-class, group I [IPRO02401] (2); Cytochrome P450, conserved site [IPRO17972] (1)	scaffold_4_mRNA_2514.1	C_unshii_00015_mRNA_54.1	-
GF0022065	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPRO12317] (2)	scaffold_4_mRNA_2507.1	C_unshii_00023_mRNA_64.1	-
GF0022064	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2)	Acy-CoA N-acyltransferase [IPRO16181] (2); GNAT domain [IPRO00152] (2)	scaffold_4_mRNA_2478.1	C_unshii_00030_mRNA_19.1	-
GF0022063	1	1	0	Putative N-acetyltransferase yf52 (2)	N-acetyltransferase activity [GO:0004080 molecular_function] (2)	HD domain [IPRO06674] (2); HD/PDEase domain [IPRO03607] (2)	scaffold_4_mRNA_2455.1	C_unshii_00035_mRNA_4.1	-
GF0022062	1	1	0	Metal-dependent phosphohydrolase (2)	metal ion 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:0005514 biological_process] (2)	HD domain [IPRO06674] (2); HD/PDEase domain [IPRO03607] (2)	scaffold_4_mRNA_2453.1	C_unshii_00035_mRNA_6.1	-
GF0022061	1	1	0	Hypothetical protein (2)	metal ion 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:0005514 biological_process] (2)	HD domain [IPRO06674] (2); HD/PDEase domain [IPRO03607] (2)	scaffold_4_mRNA_2453.1	C_unshii_00035_mRNA_6.1	-
GF0022058	1	1	0	Allene oxide cyclase (2)	isomerase activity [GO:0016853 molecular_function] (1); chloroplast [GO:0005907 cellular_component] (1)	Allene oxide cyclase [IPRO09410] (1)	scaffold_4_mRNA_2415.1	C_unshii_00099_mRNA_21.1	-
GF0022055	1	1	0	Hypothetical protein (2)	isomerase activity [GO:0016853 molecular_function] (1); chloroplast [GO:0005907 cellular_component] (1)	Allene oxide cyclase [IPRO09410] (1)	scaffold_4_mRNA_2369.1	C_unshii_00039_mRNA_72.1	-
GF0022054	1	1	0	Transcription factor MYB1R1 (1); Hypothetical protein (1)	DNA binding [GO:0003677 molecular_function] (2)	Myb domain [IPRO17930] (2); Myb domain, plant [IPRO06447] (2); SANT/Myb domain [IPRO01005] (2); SANT domain [IPRO17884] (2); Homeobox domain-like [IPRO09057] (1); Homeobox-like [IPRO09057] (1); Armadillo-like helical [IPRO11989] (1)	scaffold_4_mRNA_2362.1	C_unshii_00039_mRNA_67.1	-
GF0022053	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (2)	Myb domain [IPRO17930] (2); Myb domain, plant [IPRO06447] (2); SANT/Myb domain [IPRO01005] (2); SANT domain [IPRO17884] (2); Homeobox domain-like [IPRO09057] (1); Homeobox-like [IPRO09057] (1); Armadillo-like helical [IPRO11989] (1)	scaffold_4_mRNA_2349.1	C_unshii_00039_mRNA_54.1	-
GF0022052	1	1	0	rRNA 2'-O-methyltransferase fibrillarln (2)	rRNA processing [GO:0008033 biological_process] (2); RNA binding [GO:0003723 molecular_function] (2); rRNA processing [GO:0006364 biological_process] (2); methyltransferase activity [GO:0008168 molecular_function] (2)	Fibrillarln, conserved site [IPRO20813] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPRO29063] (2); Fibrillarln [IPRO00692] (2)	scaffold_4_mRNA_2321.1	C_unshii_00039_mRNA_28.1	-
GF0022049	1	1	0	Glutathione transferase (2)	protein binding [GO:0005515 molecular_function] (2)	Glutathione S-transferase, N-terminal [IPRO04045] (2); Glutathione S-transferase, C-terminal like [IPRO10987] (2); Thioredoxin-like fold [IPRO12336] (2); Glutathione S-transferase, C-terminal [IPRO04046] (2)	scaffold_4_mRNA_2293.1	C_unshii_00040_mRNA_24.1	-
GF0022048	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2)	Tetratricopeptide-like helical domain [IPRO11990] (2); Tetratricopeptide repeat [IPRO19734] (2)	scaffold_4_mRNA_2292.1	C_unshii_00040_mRNA_21.1	-
GF0022047	1	1	0	Abscisic acid receptor PYL8 (2)	protein binding [GO:0005515 molecular_function] (2)	Polyketide cyclase dehydrase [IPRO19557] (2); START-like domain [IPRO23393] (2)	scaffold_4_mRNA_229.1	C_unshii_00012_mRNA_108.1	-
GF0022046	1	1	0	Putative yef19 (2)	membrane [GO:0016020 cellular_component] (2)	CCB3/YagF [IPRO03425] (2)	scaffold_4_mRNA_2262.1	C_unshii_00039_mRNA_21.1	-
GF0022045	1	1	0	DUF177 domain protein (2)	protein binding [GO:0005515 molecular_function] (2)	Protein of unknown function DUF177 [IPRO03772] (1); Large ribosomal RNA subunit accumulation protein YecD [IPRO03772] (1)	scaffold_4_mRNA_2259.1	C_unshii_00039_mRNA_24.1	-

ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutula</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutula</i>	Members in <i>P. trifoliata</i>
GF0022044	1	1	0	Hypothetical protein (2)	ATP binding [GO:000524 molecular_function] (2)	P-loop containing nucleoside triphosphate hydrolase [IPRO0741] (2); Helicase superfamily 1/2, ATP-binding domain [IPRO14001] (2); SNF2-related, N-terminal domain [IPRO0030] (2)	scaffold_4_mRNA_225.1	C_unshiu_00012_mRNA_104.1	-
GF0022043	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_2236.1	C_unshiu_00130_mRNA_27.1	-
GF0022042	1	1	0	Transcription initiation factor TFIIID subunit 9 (1); Putative transcription initiation factor TFIIID subunit 9-like (1)	DNA-templated transcription, initiation [GO:0006352 biological_process] (2); protein heterodimerization activity [GO:0046082 molecular_function] (2); nucleus [GO:0005634 cellular_component] (2); histone lysine methylation [GO:00434968 biological_process] (2); zinc ion binding [GO:0008270 molecular_function] (2); histone-lysine N-methyltransferase activity [GO:0018024 molecular_function] (2)	Histone-fold [IPRO09072] (2); Transcription initiation factor TAF131 [IPRO03162] (2)	scaffold_4_mRNA_2229.1	C_unshiu_00130_mRNA_34.1	-
GF0022041	1	1	0	Histone-lysine N-methyltransferase SUVR4 (2)		Pe-SET domain [IPRO07728] (2); WYL-D domain [IPRO18848] (2); Pre-SET zinc-binding sub-group [IPRO03606] (1)	scaffold_4_mRNA_2226.1	C_unshiu_00130_mRNA_36.1	-
GF0022040	1	1	0	Cysteine-rich repeat secretory protein 3 (2)		Gnk2-homologous domain [IPRO02902] (2)	scaffold_4_mRNA_2225.1	C_unshiu_00130_mRNA_37.1	-
GF0022039	1	1	0	General transcription factor-like zinc finger protein, putative (2)			scaffold_4_mRNA_2212.1	C_unshiu_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 [IPRO06527] (2); F-box domain [IPRO01810] (2); Quinoprotein amine dehydrogenase, beta chain-like [IPRO11044] (1)	scaffold_4_mRNA_2209.1	C_unshiu_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 process [GO:0055114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (2)	GroES-like [IPRO11032] (2); Alcohol dehydrogenase, zinc-type, conserved site [IPRO02328] (2); Alcohol dehydrogenase, N-terminal [IPRO13154] (2); NAD(P)+binding domain [IPRO10400] (2); Alcohol dehydrogenase superfamily, zinc-type [IPRO02085] (1)	scaffold_4_mRNA_2191.1	C_unshiu_00209_mRNA_37.1	-
GF0022033	1	1	0	Ferritin (2)	ferric iron binding [GO:0008199 molecular_function] (2); cellular iron ion homeostasis [GO:0006879 biological_process] (2); iron ion transport [GO:0006826 biological_process] (2)	Ferritin [IPRO01519] (2); Ferritin/DPS protein domain [IPRO08331] (2); Ferritin, conserved site [IPRO14034] (2); Ferritin-like superfamily [IPRO09793] (2); Ferritin-related [IPRO12347] (2); Ferritin-like diiron domain [IPRO09040] (1); Ferritin-like diiron domain [IPRO09040] (1)	scaffold_4_mRNA_218.1	C_unshiu_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)	Histidine phosphatase superfamily, clade-2 [IPRO00560] (2); Histidine acid phosphatase, eukaryotic [IPRO16274] (2); Histidine phosphatase superfamily [IPRO29033] (2)	scaffold_4_mRNA_217.1	C_unshiu_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:0020037 molecular_function] (2); iron ion binding [GO:0005506 molecular_function] (2)	Cytochrome P450 [IPRO01128] (2); Cytochrome P450, conserved site [IPRO17972] (2); Cytochrome P450, E-class, group 1 [IPRO02401] (2)	scaffold_4_mRNA_2158.1	C_unshiu_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)	Cytochrome P450, E-class, group 1 [IPRO02401] (2); Cytochrome P450, conserved site [IPRO17972] (2); Cytochrome P450 [IPRO01128] (2)	scaffold_4_mRNA_2156.1	C_unshiu_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); iron ion binding [GO:0005506 molecular_function] (2); heme binding [GO:0020037 molecular_function] (2)	Cytochrome P450 [IPRO01128] (2); Cytochrome P450, conserved site [IPRO17972] (2); Cytochrome P450, E-class, group 1 [IPRO02401] (2)	scaffold_4_mRNA_2155.1	C_unshiu_00020_mRNA_30.1	-
GF0022026	1	1	0	Putative membrane lipoprotein (2)	catalytic activity [GO:0003824 molecular_function] (2); metabolic process [GO:0008152 biological_process] (2); hydrolyase activity, acting on ester bonds [GO:0016788 molecular_function] (2)	Phosphoesterase [IPRO07312] (2); Alkaline phosphatase-like, alpha/beta alpha [IPRO17849] (1); Alkaline-phosphatase-like, core domain [IPRO17850] (1)	scaffold_4_mRNA_2139.1	C_unshiu_00020_mRNA_22.1	-
GF0022025	1	1	0	Phospholipase C 3 (2)			scaffold_4_mRNA_2135.1	C_unshiu_00020_mRNA_19.1	-
GF0022024	1	1	0	Peptide-N4-(N-acetyl-beta-glucosaminyl)asparagine amidase A (2)		Peptide-N4-(N-acetyl-beta-glucosaminyl)asparagine amidase A [IPRO21102] (2)	scaffold_4_mRNA_213.1	C_unshiu_00012_mRNA_93.1	-
GF0022023	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_2128.1	C_unshiu_00004_mRNA_24.1	-
GF0022021	1	1	0	Ankyrin repeat RF-like protein, putative (2)	protein binding [GO:0005515 molecular_function] (2)	Ankyrin repeat [IPRO02110] (2); Major sperm protein (MSP) domain [IPRO00535] (2); PapD-like [IPRO08962] (2); Ankyrin repeat-containing domain [IPRO20653] (2); Immunoglobulin-like fold [IPRO13783] (1)	scaffold_4_mRNA_212.1	C_unshiu_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)	Peptidase family A1 domain [IPRO33121] (2); Aspartic peptidase domain [IPRO21109] (2); Aspartic peptidase A1 family [IPRO01461] (2); Xylanase inhibitor, N-terminal [IPRO32861] (1)	scaffold_4_mRNA_2109.1	C_unshiu_00020_mRNA_7.1	-
GF0022017	1	1	0	Hypothetical protein (2)	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:0016020 cellular_component] (2); drug transmembrane transport [GO:0006855 biological_process] (2)	ELMO domain [IPRO06816] (2)	scaffold_4_mRNA_2077.1	C_unshiu_01238_mRNA_6.1	-
GF0022016	1	1	0	MatE family protein, expressed (2)		Multi antimicrobial extrusion protein [IPRO02528] (2)	scaffold_4_mRNA_2074.1	C_unshiu_00700_mRNA_18.1	-
GF0022015	1	1	0	ELMO domain-containing protein 2 (2)		ELMO domain [IPRO06816] (2)	scaffold_4_mRNA_2071.1	C_unshiu_00700_mRNA_13.1	-
GF0022014	1	1	0	Pollen Ole e 1 allergen and extensin family protein (2)			scaffold_4_mRNA_207.1	C_unshiu_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:0007323 molecular_function] (2); U2AF [GO:0089701 cellular_component] (2); nucleotide binding [GO:0000166 molecular_function] (1)	RNA recognition motif domain, eukaryote [IPRO03954] (2); U2 auxiliary factor small subunit [IPRO09145] (2); RNA recognition motif domain [IPRO00504] (2); Nucleotide-binding alpha-beta phi domain [IPRO12677] (1)	scaffold_4_mRNA_2066.1	C_unshiu_00700_mRNA_9.1	-
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 [IPRO03441] (2)	scaffold_4_mRNA_2061.1	C_unshiu_00700_mRNA_4.1	-
GF0022010	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_2060.1	C_unshiu_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 [IPRO01087] (2); SGNH hydrolase-type esterase domain [IPRO13830] (2)	scaffold_4_mRNA_2046.1	C_unshiu_00250_mRNA_41.1	-
GF0022008	1	1	0	Hypothetical protein (2)		Alpha/Beta hydrolase fold [IPRO29058] (2)	scaffold_4_mRNA_2039.1	C_unshiu_00250_mRNA_33.1	-
GF0022006	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4283 [IPRO25558] (2)	scaffold_4_mRNA_2024.1	C_unshiu_00250_mRNA_13.1	-
GF0022005	1	1	0	Hypothetical protein (2)		Zinc knuckle CX2CX4HX4C [IPRO25836] (2)	scaffold_4_mRNA_2023.1	C_unshiu_00250_mRNA_12.1	-
GF0022004	1	1	0	Hypothetical protein (2)	cysteine-type peptidase activity [GO:0008234 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Upl1 protease family, C-terminal catalytic domain [IPRO03653] (2)	scaffold_4_mRNA_2019.1	C_unshiu_00250_mRNA_10.1	-
GF0022003	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_2017.1	C_unshiu_00250_mRNA_8.1	-
GF0022002	1	1	0	Hypothetical protein (2)	transporter activity [GO:0005215 molecular_function] (1); membrane [GO:0016020 cellular_component] (1); transport [GO:0006810 biological_process] (1)	Proton-dependent oligopeptide transporter family [IPRO00109] (1)	scaffold_4_mRNA_1992.1	C_unshiu_00086_mRNA_28.1	-
GF0022001	1	1	0	Tetrapeptide repeat-like superfamily protein, putative (2)		Pentapeptide repeat [IPRO02885] (2)	scaffold_4_mRNA_199.1	C_unshiu_00012_mRNA_78.1	-
GF0022000	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1984.1	C_unshiu_00086_mRNA_20.1	-
GF0021999	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPRO12337] (1)	scaffold_4_mRNA_1982.1	C_unshiu_00086_mRNA_18.1	-
GF0021998	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_198.1	C_unshiu_00012_mRNA_77.1	-
GF0021997	1	1	0	Hypothetical protein (2)		Transposase, MuDR, plant [IPRO04332] (2)	scaffold_4_mRNA_1974.1	C_unshiu_00086_mRNA_10.1	-
GF0021996	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1953.1	C_unshiu_01260_mRNA_10.1	-





ID	Num. in <i>C. clementinae</i>	Num. in <i>C. australis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. australis</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 molecular_function] (2); nucleoside [GO:0016020 cellular_component] (2)	AAA+ ATPase domain [IPR001593] (2); ABC transporter-like [IPR00439] (2); ABC-2 type transporter [IPR013525] (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.unshiu_00532_mRNA_13.1	-
GF0021833	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1170.1	C.unshiu_00532_mRNA_12.1	-
GF0021832	1	1	0	Hypothetical protein (2)		MULE transposase domain [IPR018289] (1)	scaffold_4_mRNA_1167.1	C.unshiu_00532_mRNA_9.1	-
GF0021831	1	1	0	Protein kinase G11A (2)	ATP binding [GO:0005524 molecular_function] (2); protein kinase activity [GO:0004672 molecular_function] (2); protein serine/threonine kinase activity [GO:0004674 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2)	Protein kinase domain [IPR000719] (2); Protein kinase-like domain [IPR011009] (2); Serine/threonine-protein kinase, active site [IPR008271] (2); AGC-kinase C-terminal [IPR009061] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR02290] (1)	scaffold_4_mRNA_1163.1	C.unshiu_00532_mRNA_5.1	-
GF0021830	1	1	0	FGF: Transposon-encoded proteins with TYA reverse transcriptase, integrate domains in various combinations (1); Hypothetical protein (1)	zinc ion binding [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 [IPR013103] (1)	scaffold_4_mRNA_1160.1	C.unshiu_00532_mRNA_2.1	-
GF0021829	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1154.1	C.unshiu_00440_mRNA_19.1	-
GF0021828	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1153.1	C.unshiu_00440_mRNA_18.1	-
GF0021827	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1152.1	C.unshiu_00440_mRNA_17.1	-
GF0021826	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012377] (2)	scaffold_4_mRNA_1151.1	C.unshiu_00440_mRNA_16.1	-
GF0021825	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (2)	hA-T like transposase, RNase-H fold [IPR025525] (2)	scaffold_4_mRNA_1150.1	C.unshiu_00440_mRNA_15.1	-
GF0021824	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1149.1	C.unshiu_00440_mRNA_14.1	-
GF0021823	1	1	0	Calmodulin-binding family protein isoform 1 (2)			scaffold_4_mRNA_1148.1	C.unshiu_00440_mRNA_13.1	-
GF0021822	1	1	0	Unspecific monooxygenase (2)	heme binding [GO:0020037 molecular_function] (2); iron ion 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:005114 biological_process] (2)	Cytochrome P450, E-class, group 1 [IPR02401] (2); Cytochrome P450 [IPR001128] (2)	scaffold_4_mRNA_1142.1	C.unshiu_00440_mRNA_5.1	-
GF0021821	1	1	0	Putative retroelement pol polyprotein (1); Hypothetical protein (1)			scaffold_4_mRNA_1141.1	C.unshiu_00440_mRNA_4.1	-
GF0021820	1	1	0	Hypothetical protein (2)	methyltransferase activity [GO:0008168 molecular_function] (2)	Putative S-adenosyl-L-methionine-dependent methyltransferase [IPR004159] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (2)	scaffold_4_mRNA_1139.1	C.unshiu_00440_mRNA_2.1	-
GF0021819	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1138.1	C.unshiu_00440_mRNA_1.1	-
GF0021818	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (2); regulation of transcription, DNA-templated [GO:000655 biological_process] (2); transcription factor activity, sequence-specific; DNA binding [GO:0003700 molecular_function] (2)	AP2/ERF domain [IPR001471] (2); DNA-binding domain [IPR018177] (2)	scaffold_4_mRNA_1136.1	C.unshiu_00512_mRNA_19.1	-
GF0021817	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1124.1	C.unshiu_00101_mRNA_2.1	-
GF0021816	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1122.1	C.unshiu_01133_mRNA_6.1	-
GF0021815	1	1	0	RNA-directed DNA polymerase (2)	DNA integration [GO:0015074 biological_process] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2); Integrase, catalytic core [IPR001584] (2)	scaffold_4_mRNA_1118.1	C.unshiu_00929_mRNA_2.1	-
GF0021814	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_4_mRNA_1117.1	C.unshiu_00929_mRNA_3.1	-
GF0021813	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1116.1	C.unshiu_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:0004672 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); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Protein kinase-like domain [IPR011009] (2); Protein kinase, ATP binding site [IPR017441] (2); Serine/threonine-protein kinase, active site [IPR008271] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2); Retrotransposon gag domain [IPR005162] (2); Leucine-rich repeat [IPR01611] (2); Conserved A-like lectin glucanase domain [IPR013320] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR02290] (1)	scaffold_4_mRNA_1113.1	C.unshiu_00929_mRNA_6.1	-
GF0021811	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1102.1	C.unshiu_00922_mRNA_13.1	-
GF0021810	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_110.1	C.unshiu_00202_mRNA_32.1	-
GF0021809	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1098.1	C.unshiu_00725_mRNA_4.1	-
GF0021808	1	1	0	Putative non-LTR retroelement reverse transcriptase (2)	nucleic acid binding [GO:0003676 molecular_function] (2); RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular_function] (2)	Reverse transcriptase domain [IPR000477] (2); Ribonuclease H-like domain [IPR012337] (2); Reverse transcriptase zinc-binding domain [IPR026900] (2); Ribonuclease H domain [IPR002156] (2); Endonuclease/exonuclease/phosphatase [IPR005155] (2)	scaffold_4_mRNA_1097.1	C.unshiu_00725_mRNA_5.1	-
GF0021807	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (1)	Leucine-rich repeat domain, L domain-like [IPR032675] (2); Leucine-rich repeat [IPR01611] (1); Protein kinase-like domain [IPR011009] (1)	scaffold_4_mRNA_1096.1	C.unshiu_00725_mRNA_8.1	-
GF0021806	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_109.1	C.unshiu_00202_mRNA_31.1	-
GF0021805	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1084.1	C.unshiu_00111_mRNA_2.1	-
GF0021804	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1083.1	C.unshiu_00111_mRNA_3.1	-
GF0021803	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1077.1	C.unshiu_00111_mRNA_9.1	-
GF0021802	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1074.1	C.unshiu_00111_mRNA_12.1	-
GF0021801	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1067.1	C.unshiu_00111_mRNA_19.1	-
GF0021800	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1066.1	C.unshiu_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/YVTN repeat-like-containing domain [IPR015943] (2)	scaffold_4_mRNA_1064.1	C.unshiu_00111_mRNA_22.1	-
GF0021798	1	1	0	PIF-like orf1 (1); Hypothetical protein (1)			scaffold_4_mRNA_1062.1	C.unshiu_00111_mRNA_23.1	-
GF0021797	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1060.1	C.unshiu_00111_mRNA_27.1	-
GF0021796	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1059.1	C.unshiu_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 [IPR01810] (2)	scaffold_4_mRNA_1058.1	C.unshiu_00111_mRNA_29.1	-
GF0021794	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1055.1	C.unshiu_00111_mRNA_33.1	-
GF0021793	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1054.1	C.unshiu_00111_mRNA_34.1	-
GF0021792	1	1	0	Putative inorganic polyphosphate/ATP-nad kinase (2)			scaffold_4_mRNA_1043.1	C.unshiu_00932_mRNA_4.1	-
GF0021791	1	1	0	Nepenthesin II (2)	aspartic-type endopeptidase activity [GO:0004190 molecular_function] (2); electron carrier activity [GO:0009055 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Aspartic peptidase, active site [IPR001909] (2); Aspartic peptidase A1 family [IPR001461] (2); Xylanase inhibitor, C-terminal [IPR032799] (2); Xylanase inhibitor, N-terminal [IPR032811] (2); Cupredoxin [IPR008972] (2); Peptidase family A1 domain [IPR033121] (2); Phytocyanin domain [IPR003245] (2); Aspartic peptidase domain [IPR021109] (2); Pepsin-like domain, plant [IPR034161] (1)	scaffold_4_mRNA_1039.1	C.unshiu_00932_mRNA_9.1	-
GF0021790	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1035.1	C.unshiu_00932_mRNA_11.1	-
GF0021789	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_103.1	C.unshiu_00201_mRNA_25.1	-
GF0021788	1	1	0	Hypothetical protein (2)	aspartic-type endopeptidase activity [GO:0004190 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Aspartic peptidase A1 family [IPR001461] (2); Xylanase inhibitor, C-terminal [IPR032799] (2); Aspartic peptidase domain [IPR021109] (2)	scaffold_4_mRNA_1025.1	C.unshiu_00059_mRNA_20.1	-
GF0021787	1	1	0	Putative glycosyltransferase family protein 64 protein C5-like (1); Glycosyltransferase family protein 64 protein C5 (1)	glycosaminoglycan biosynthetic process [GO:0006024 biological_process] (2); heparan sulfate proteoglycan biosynthetic process [GO:0010102 biological_process] (2); integral component of membrane [GO:0016021 cellular_component] (2)	Nucleotide-diphospho-sugar transferases [IPR029044] (2); Glycosyl hydrolase, five-bladed beta-propeller domain [IPR023286] (2); Exostosin, C-terminal [IPR015338] (2)	scaffold_4_mRNA_1021.1	C.unshiu_00059_mRNA_23.1	-
GF0021786	1	1	0	Monosaccharide transport protein (2)			scaffold_4_mRNA_1019.1	C.unshiu_00059_mRNA_26.1	-
GF0021785	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1017.1	C.unshiu_00059_mRNA_28.1	-
GF0021784	1	1	0	Hypothetical protein (2)			scaffold_4_mRNA_1016.1	C.unshiu_00059_mRNA_29.1	-

ID	Num. in <i>C. caryophyllata</i>	Num. in <i>C. acutata</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. caryophyllata</i>	Members in <i>C. acutata</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)	Peptidase S28 [IPR008758] (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)	Matrion-U1-C-like, C2H2-type zinc finger [IPR03604] (1); Zinc finger, U1-type [IPR013087] (1); Zinc finger, U1-type [IPR03604] (1); Zinc finger, C2H2-like [IPR015800] (1)	scaffold_4_mRNA_1000.1	C_unshiu_01189_mRNA_6.1	-
GF0021780	1	1	0	Hypothetical protein (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)	Helicase-associated domain [IPR007502] (2); Helicase, C-terminal [IPR001650] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Dna/RNA helicase, ATP-dependent, DEAH-box type, conserved site [IPR02484] (2); Helicase superfamily 1.2, ATP-binding domain [IPR014001] (2)	scaffold_3_mRNA_990.1	C_unshiu_00199_mRNA_16.1	-
GF0021779	1	1	0	Pre-miRNA-splicing factor ATP-dependent RNA helicase (2)					
GF0021778	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_988.1	C_unshiu_00199_mRNA_19.1	-
GF0021776	1	1	0	DNA-directed RNA polymerase D subunit 1-like protein (2)		Protein of unknown function DUF3223 [IPR021602] (2)	scaffold_3_mRNA_977.1	C_unshiu_00199_mRNA_27.1	-
GF0021770	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_930.1	C_unshiu_00587_mRNA_2.1	-
GF0021769	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_925.1	C_unshiu_00345_mRNA_9.1	-
GF0021768	1	1	0	Subtilisin-like serine endopeptidase 0 family protein (1); Subtilisin-like serine endopeptidase family protein, putative (1)	serine-type endopeptidase activity [GO:0004252 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Peptidase S8/S53 domain [IPR00209] (2); Peptidase S8, subtilisin-related [IPR015500] (2); Peptidase S8 propeptide/proteinase inhibitor 19 [IPR01029] (2); Peptidase S8, subtilisin, Ser-active site [IPR023828] (2); Cucumis-like catalytic domain [IPR034197] (1)	scaffold_3_mRNA_908.1	C_unshiu_01872_mRNA_3.1	-
GF0021767	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_883.1	C_unshiu_00956_mRNA_4.1	-
GF0021765	1	1	0	Putative sugar phosphate/phosphate translocator (2)		Sugar phosphate transporter domain [IPR004853] (2)	scaffold_3_mRNA_874.1	C_unshiu_00412_mRNA_29.1	-
GF0021764	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:0003624 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2); RNA-DNA hybrid ribonuclease activity [GO:0004523 molecular_function] (1)	Protein phosphatase 2C family [IPR015655] (2); PPM-type phosphatase domain [IPR001932] (2)	scaffold_3_mRNA_84.1	C_unshiu_00850_mRNA_16.1	-
GF0021762	1	1	0	Hypothetical protein (2)	nucleoside-containing compound metabolic process [GO:0006139 biological_process] (2); methyltransferase activity [GO:0008168 molecular_function] (2)	MT-A70-like [IPR007757] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (2)	scaffold_3_mRNA_83.1	C_unshiu_00850_mRNA_17.1	-
GF0021760	1	1	0	mRNAdenosine methylase isoform 1 (2)	transferase activity [GO:0016740 molecular_function] (2); biosynthetic process [GO:0009058 biological_process] (2)	Squalene/phytosterol synthase [IPR002060] (2); Isoprenoid synthase domain [IPR008949] (2)	scaffold_3_mRNA_818.1	C_unshiu_00159_mRNA_42.1	-
GF0021759	1	1	0	UPF0551 protein CkorD8 (2)					
GF0021756	1	1	0	Phosphoenolpyruvate carboxylase family protein (2)	catalytic activity [GO:0003824 molecular_function] (2)	Pyruvate/Phosphoenolpyruvate kinase-like domain [IPR015813] (2); Hcp/HfpI aldolase/citrate lyase domain [IPR005000] (2)	scaffold_3_mRNA_80.1	C_unshiu_01206_mRNA_1.1	-
GF0021752	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_785.1	C_unshiu_00179_mRNA_24.1	-
GF0021751	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_780.1	C_unshiu_00179_mRNA_19.1	-
GF0021750	1	1	0	Glyceroxytransferase PGSIIP8 (2)			scaffold_3_mRNA_767.1	C_unshiu_01746_mRNA_10.1	-
GF0021749	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_763.1	C_unshiu_01746_mRNA_7.1	-
GF0021748	1	1	0	ATP-dependent caseinolytic serine/crotonease family protein isoform 2 (2)	nyano-tyase activity [GO:00010630 molecular_function] (1); 3-oxohydroxybutyryl-CoA hydrolase activity [GO:0003860 molecular_function] (2)	Ctp/crotonease-like domain [IPR029045] (2); Enoyl-CoA hydratase/isomerase, HBBYL-CoA-H type [IPR032259] (2)	scaffold_3_mRNA_750.1	C_unshiu_02184_mRNA_3.1	-
GF0021744	1	1	0	Hypothetical protein (2)	palmitoyl hydrolase activity [GO:0098599 molecular_function] (2)	Palmitoyl protein thioesterase [IPR02472] (2); Alpha/Beta hydrolase fold [IPR029058] (2)	scaffold_3_mRNA_722.1	C_unshiu_00442_mRNA_9.1	-
GF0021743	1	1	0	Ethylene responsive element binding factor, putative (2)	DNA binding [GO:0003677 molecular_function] (2); transcription factor activity, sequence-specific DNA binding [GO:00700 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	-
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)	Bull-tye lectin domain [IPR001480] (2); Protein kinase-like domain [IPR011009] (1); Protein kinase domain [IPR000719] (1); Serine/threonine dual specificity protein kinase, catalytic domain [IPR002290] (1); Protein kinase, ATP binding site [IPR017441] (1)	scaffold_3_mRNA_712.1	C_unshiu_00795_mRNA_9.1	-
GF0021741	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_699.1	C_unshiu_00795_mRNA_11.1	-
GF0021740	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_687.1	C_unshiu_01638_mRNA_5.1	-
GF0021738	1	1	0	Transcription factor IIB 90 kDa subunit (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 [IPR007112] (2); Expansin Lot pl [IPR007118] (2); Expansin, cellulose-binding-like domain [IPR007117] (2); RipA-like double-pa beta-barrel domain [IPR00909] (1); RipA-like protein, double-pa beta-barrel domain [IPR00909] (1)	scaffold_3_mRNA_664.1	C_unshiu_01811_mRNA_3.1	-
GF0021735	1	1	0	Hypothetical protein (2)			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:0004252 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Peptidase S8, subtilisin, Asp-active site [IPR023827] (2); Peptidase S8, subtilisin-related [IPR015500] (2); Peptidase S8/S53 domain [IPR00209] (2); Peptidase S8 propeptide/proteinase inhibitor 19 [IPR01029] (2); Cucumis-like catalytic domain [IPR034197] (1); Peptidase S8, subtilisin, Ser-active site [IPR023828] (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)					
GF0021731	1	1	0	Putative vacuolar sorting-associated protein 13A (2)					
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)	iron ion binding [GO:0005506 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:0008010 biological_process] (1)		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); Uncharacterised domain Wax2, C-terminal [IPR021940] (2)	scaffold_3_mRNA_6255.2	C_unshiu_00206_mRNA_42.1	-
GF0021722	1	1	0	Hypothetical protein (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)	Phytocyanin domain [IPR003245] (2); Copper domain [IPR00972] (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. clementinae</i>	Num. in <i>C. ushishi</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. ushishi</i>	Members in <i>P. trifoliata</i>
GF0021717	1	1	0	Hypothetical protein (2)	metal ion binding [GO:0046872 molecular_function] (2); nucleotide binding [GO:0001666 molecular_function] (2); integral component of membrane [GO:0016021 cellular_component] (1)	P-type ATPase, cytoplasmic domain N [IPRO23299] (2); Uncharacterized protein family UPP0565 [IPRO18881] (2); Cation-transporting P-type ATPase, N-terminal [IPRO04014] (2); P-type ATPase, A. domain [IPRO02501] (2); P-type ATPase, transmembrane domain [IPRO23298] (1); P-type ATPase [IPRO1757] (1)	scaffold_3_mRNA_6202.1	C_ushishi_00014_mRNA_103.1	-
GF0021716	1	1	0	2-hydroxyisocinnamic semialdehyde hydrolase (2)	carbohydrate metabolic process [GO:0005975 biological_process] (2); catalytic activity [GO:0003824 molecular_function] (2); malate dehydrogenase activity [GO:0016615 molecular_function] (2); oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor [GO:0016616 molecular_function] (2); L-lactate dehydrogenase activity [GO:0030600 molecular_function] (2); malate metabolic process [GO:0006108 biological_process] (2); oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); carboxylic acid metabolic process [GO:0019752 biological_process] (2)	Alpha/Beta hydrolase fold [IPRO29058] (2); Alpha/beta hydrolase fold-1 [IPRO00073] (2)	scaffold_3_mRNA_62.1	C_ushishi_00038_mRNA_7.1	-
GF0021715	1	1	0	Malate dehydrogenase (2)	carbohydrate metabolic process [GO:0005975 biological_process] (2); malate dehydrogenase activity [GO:0016615 molecular_function] (2); oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor [GO:0016616 molecular_function] (2); L-lactate dehydrogenase activity [GO:0030600 molecular_function] (2); malate metabolic process [GO:0006108 biological_process] (2); oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); carboxylic acid metabolic process [GO:0019752 biological_process] (2)	Lactate/malate dehydrogenase, N-terminal [IPRO1236] (2); Malate dehydrogenase, active site [IPRO01252] (2); Malate dehydrogenase, NAD-dependent, cytosolic [IPRO11274] (2); Lactate dehydrogenase glycoside hydrolase, family 4, C-terminal [IPRO15955] (2); Malate dehydrogenase, type 2 [IPRO10945] (2); Lactate/malate dehydrogenase, C-terminal [IPRO22383] (2); L-lactate/malate dehydrogenase [IPRO1557] (2); NAD(P)-binding domain [IPRO16040] (2)	scaffold_3_mRNA_6175.1	C_ushishi_00014_mRNA_77.1	-
GF0021713	1	1	0	Putative crossover junction endonuclease (2)	rRNA processing [GO:0006364 biological_process] (2); nucleic acid metabolic process [GO:0006139 biological_process] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPRO12377] (2); Putative pre-16S rRNA nuclease [IPRO05227] (2); YqgF/RNase H-like domain [IPRO06641] (2)	scaffold_3_mRNA_6154.1	C_ushishi_00018_mRNA_61.1	-
GF0021712	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_6152.1	C_ushishi_00014_mRNA_58.1	-
GF0021711	1	1	0	Cytochrome P450 (2)			scaffold_3_mRNA_6151.2	C_ushishi_00014_mRNA_57.2	-
GF0021709	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_6134.1	C_ushishi_00014_mRNA_42.1	-
GF0021708	1	1	0	SAUR family protein (2)	response to auxin [GO:0009733 biological_process] (2)	Small auxin-up RNA [IPRO03676] (2)	scaffold_3_mRNA_6133.1	C_ushishi_00014_mRNA_41.1	-
GF0021707	1	1	0	Hypothetical protein (2)	pectinesterase activity [GO:0030599 molecular_function] (2); cell wall [GO:0005618 cellular_component] (2); cell wall modification [GO:0042545 biological_process] (2); enzyme inhibitor activity [GO:0004857 molecular_function] (1)	Pectinesterase, catalytic [IPRO00070] (2); Pectin lyase fold [IPRO12354] (2); Pectin lyase fold/violence factor [IPRO11050] (2); Pectinesterase inhibitor domain [IPRO06501] (1)	scaffold_3_mRNA_6130.1	C_ushishi_00014_mRNA_38.1	-
GF0021706	1	1	0	Methionyl aminopeptidase (2)	proteolysis [GO:0006508 biological_process] (2); aminopeptidase activity [GO:0004177 molecular_function] (2); metalloprotease activity [GO:0008235 molecular_function] (2)	Peptidase M24A, methionine aminopeptidase, subfamily 1 [IPRO02467] (2); MYND-like zinc finger, mRNA-binding [IPRO31615] (2); Peptidase M24, methionine aminopeptidase [IPRO01714] (2); Peptidase M24 [IPRO00994] (1); Peptidase M24, structural domain [IPRO00994] (1)	scaffold_3_mRNA_6129.1	C_ushishi_00014_mRNA_37.1	-
GF0021705	1	1	0	Hypothetical protein (1); Meiotic recombination protein DMC1 homolog (1)	ATP binding [GO:0005524 molecular_function] (2); DNA binding [GO:0003677 molecular_function] (2); DNA repair [GO:0006281 biological_process] (2); DNA-dependent ATPase activity [GO:0008094 molecular_function] (2)	DNA recombination and repair protein RecA-like, ATP-binding domain [IPRO20588] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); DNA recombination and repair protein Rad51, C-terminal [IPRO13632] (1); DNA recombination and repair protein Rad51-like, C-terminal [IPRO13632] (1)	scaffold_3_mRNA_6120.1	C_ushishi_00014_mRNA_28.1	-
GF0021704	1	1	0	Glutathione S-transferase zeta class (2)	catalytic activity [GO:0003824 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2); aromatic amino acid family metabolic process [GO:0009072 biological_process] (2); cytoplasm [GO:0005737 cellular_component] (2)	Thioredoxin-like fold [IPRO12336] (2); Glutathione S-transferase, N-terminal [IPRO04045] (2); Glutathione S-transferase, C-terminal-like [IPRO10987] (2); Glutathione S-transferase, class Zeta [IPRO09551] (1); Glutathione S-transferase, class Zeta, N-terminal [IPRO34333] (1); Glutathione S-transferase, class Zeta - C-terminal [IPRO34330] (1); Maleylacetoacetate isomerase [IPRO09551] (1)	scaffold_3_mRNA_6107.1	C_ushishi_00014_mRNA_16.1	-
GF0021702	1	1	0	Putative calcium-binding protein CML25 (2)	calcium ion binding [GO:0005509 molecular_function] (2)	EF-Hand 1, calcium-binding site [IPRO18247] (2); EF-hand domain [IPRO20288] (2); EF-hand domain pair [IPRO11922] (2)	scaffold_3_mRNA_6094.1	C_ushishi_000126_mRNA_49.1	-
GF0021693	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (1); nucleus [GO:0005634 cellular_component] (1)	Methyl-CpG DNA binding [IPRO01739] (1); DNA-binding domain [IPRO16177] (1)	scaffold_3_mRNA_6032.1	C_ushishi_00018_mRNA_116.1	-
GF0021690	1	1	0	Adenosine deaminase, RNA binding, RNA binding, adenosine deaminases, 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/oligase [IPRO24661] (2)	scaffold_3_mRNA_6010.1	C_ushishi_00018_mRNA_99.1	-
GF0021689	1	1	0	Ripensing related protein family (2)			scaffold_3_mRNA_6003.1	C_ushishi_00018_mRNA_92.1	-
GF0021688	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_6.1	C_ushishi_01604_mRNA_6.1	-
GF0021686	1	1	0	Cysteine synthase (2)	cyamide metabolic process [GO:0019499 biological_process] (2); mitochondrion [GO:0005739 cellular_component] (2); L-3-cyanolalanine synthase activity [GO:0005017 molecular_function] (2); cysteine biosynthetic process from acetyl [GO:0006535 biological_process] (2); cysteine synthase activity [GO:0004124 molecular_function] (2)	Cysteine synthase CysK [IPRO05859] (2); L-3-cyanolalanine synthase, mitochondrial [IPRO31111] (2); Cysteine synthase/cystathionine beta-synthase, pyridoxal-phosphate attachment site [IPRO01216] (2); Tryptophan synthase beta subunit-like PLP-dependent enzyme [IPRO01926] (2); Cysteine synthase [IPRO05856] (2)	scaffold_3_mRNA_5969.1	C_ushishi_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:0008094 molecular_function] (2); regulation of gene expression, epigenetic [GO:0040029 biological_process] (2); ATP-dependent chromatin remodeling [GO:0043044 biological_process] (2); regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); protein binding [GO:0005515 molecular_function] (1)	P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); BR-AHA (BRM) ATPase [IPRO31056] (2); Glutamine-Leucine-Glutamine, QLG [IPRO14978] (2); Helicase superfamily 1C, ATP-binding domain [IPRO14901] (2); SNF2-related, N-terminal domain [IPRO00330] (2); Helicase, C-terminal [IPRO16160] (2); Bromodomain [IPRO01487] (1)	scaffold_3_mRNA_5968.1	C_ushishi_00018_mRNA_59.1	-
GF0021684	1	1	0	Ubiquitin-conjugating enzyme E2 5 (2)		Ubiquitin-conjugating enzyme, active site [IPRO23313] (2); Ubiquitin-conjugating enzyme RWD-like [IPRO16135] (2); Ubiquitin-conjugating enzyme E2 [IPRO06088] (2)	scaffold_3_mRNA_5967.1	C_ushishi_00018_mRNA_58.1	-
GF0021683	1	1	0	AT-rich interactive domain-containing protein 1 (2)	DNA binding [GO:0003677 molecular_function] (2)	ARID DNA-binding domain [IPRO01686] (2); ELM2 domain [IPRO09091] (1)	scaffold_3_mRNA_5966.1	C_ushishi_00018_mRNA_57.1	-
GF0021678	1	1	0	Reticulon-like protein B8 (2)		Reticulon [IPRO03388] (2)	scaffold_3_mRNA_5927.1	C_ushishi_00018_mRNA_19.1	-
GF0021677	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_5923.1	C_ushishi_00018_mRNA_15.1	-
GF0021676	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_5914.1	C_ushishi_00026_mRNA_40.1	-
GF0021675	1	1	0	BTB/POZ domain-containing protein P081 (2)	protein binding [GO:0005515 molecular_function] (2)	TRAF-like [IPRO08974] (2); BTB/POZ domain [IPRO02101] (2); BTB/Kelch-associated [IPRO11705] (2); SKP1/BTB/POZ domain [IPRO11333] (2)	scaffold_3_mRNA_5909.1	C_ushishi_00026_mRNA_43.1	-
GF0021673	1	1	0	Arabinogalactan protein 20 (2)		Arabinogalactan peptide, AGP [IPRO09424] (2)	scaffold_3_mRNA_5901.1	C_ushishi_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 [IPRO11009] (2); Protein kinase domain [IPRO00719] (2); Serine/threonine-protein kinase, active site [IPRO08271] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPRO02790] (1)	scaffold_3_mRNA_589.1	C_ushishi_01817_mRNA_6.1	-
GF0021669	1	1	0	Poly(A) RNA polymerase cid14 (2)			scaffold_3_mRNA_5884.1	C_ushishi_00026_mRNA_66.1	-
GF0021668	1	1	0	DUF1442 family protein (2)		Protein of unknown function DUF1442 [IPRO09902] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPRO29063] (2)	scaffold_3_mRNA_5871.1	C_ushishi_00026_mRNA_80.1	-
GF0021667	1	1	0	Hypothetical protein (2)	oxidation-reduction process [GO:0055114 biological_process] (2); UDP-N-acetylmuramic dehydrogenase activity [GO:0008762 molecular_function] (2)	UDP-N-acetylmuramic dehydrogenase reductase, C-terminal [IPRO11601] (2)	scaffold_3_mRNA_5866.1	C_ushishi_00026_mRNA_87.1	-



ID	Num. in <i>C. clementiae</i>	Num. in <i>C. acicola</i>	Num. in <i>P. trifoliate</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. acicola</i>	Members in <i>P. trifoliate</i>
GF0021666	1	1	0	Molybdenum cofactor biosynthesis protein C (2)	Mo-molybdopterin cofactor biosynthetic process [GO:006777] biological_process (2)	Molybdopterin cofactor biosynthesis C (Most) domain [IPRO02920] (2); Molybdenum cofactor biosynthesis C [IPRO23045] (2); Molybdenum cofactor biosynthesis C, bacterial-type [IPRO23046] (1)	scaffold_3_mRNA_5865.1	C_umshii_00026_mRNA_88.2	-
GF0021665	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_5858.1	C_umshii_00261_mRNA_20.1	-
GF0021663	1	1	0	Kruppel-like factor 17 (2)			scaffold_3_mRNA_5853.1	C_umshii_00263_mRNA_15.1	-
GF0021660	1	1	0	Spotted leaf protein, putative (2)	protein ubiquitination [GO:0016567] biological_process (2); ubiquitin-protein transferase activity [GO:0004842] molecular_function (2); protein binding [GO:0005515] molecular_function (2); binding [GO:0005488] molecular_function (2)	Armadillo-type fold [IPRO16024] (2); Armadillo [IPRO00225] (2); U box domain [IPRO03613] (2); Armadillo-like helical [IPRO11989] (2); Zinc finger, RINGFYVE/PHD-type [IPRO13083] (2); Powdery mildew resistance protein, RPW8 domain [IPRO08808] (1)	scaffold_3_mRNA_5838.1	C_umshii_00978_mRNA_2.1	-
GF0021659	1	1	0	Translation initiation factor IF-2 (2)		Protein of unknown function DUF4079 [IPRO23067] (2)	scaffold_3_mRNA_5833.1	C_umshii_00978_mRNA_7.1	-
GF0021658	1	1	0	Isoflavone reductase family protein (2)			scaffold_3_mRNA_5832.1	C_umshii_00978_mRNA_8.1	-
GF0021657	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_5827.1	C_umshii_01669_mRNA_2.1	-
GF0021656	1	1	0	Hypothetical protein (1); D-arabinono-1,4-lactone oxidase family protein (1)	oxidation-reduction process [GO:0055114] biological_process (2); D-arabinono-1,4-lactone oxidase activity [GO:0003885] molecular_function (2); membrane [GO:0016020] cellular_component (2); protein binding [GO:0005515] molecular_function (1)	D-arabinono-1,4-lactone oxidase [IPRO07173] (2); L-gulonolactone oxidase, plant [IPRO10030] (2); IQ motif, EF-hand binding site [IPRO00048] (1)	scaffold_3_mRNA_5811.1	C_umshii_00023_mRNA_95.1	-
GF0021655	1	1	0	DELLA protein (1); DELLA protein RGL3 (1)		Transcription factor GRAS [IPRO05202] (2)	scaffold_3_mRNA_580.1	C_umshii_00318_mRNA_5.1	-
GF0021653	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_5782.1	C_umshii_00023_mRNA_69.1	-
GF0021652	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_578.1	C_umshii_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)	WAT1-related protein [IPRO01184] (2); EmsA domain [IPRO00620] (2)	scaffold_3_mRNA_5772.1	C_umshii_00023_mRNA_56.1	-
GF0021649	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_5741.1	C_umshii_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:0055085] biological_process (2); ATPase activity, coupled to transmembrane movement of substances [GO:0042626] molecular_function (2); transport [GO:0006810] biological_process (2); integral component of membrane [GO:0016021] cellular_component (2); ATPase activity [GO:0016887] molecular_function (2); transferase activity, transferring acyl groups other than amino-acyl groups [GO:0016747] molecular_function (1)	ABC transporter, conserved site [IPRO17871] (2); AAA+ ATPase domain [IPRO03593] (2); ABC transporter type 1, transmembrane domain [IPRO11527] (2); ABC transporter-like [IPRO03429] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); Transferrin [IPRO03400] (1); Chloramphenicol acetyltransferase-like domain [IPRO23213] (1)	scaffold_3_mRNA_5728.1	C_umshii_00023_mRNA_11.1	-
GF0021642	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_5705.1	C_umshii_01129_mRNA_1.1	-
GF0021640	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677] molecular_function (2)	B3 DNA binding domain [IPRO03340] (2); DNA-binding pseudorearranged domain [IPRO15300] (2)	scaffold_3_mRNA_5702.1	C_umshii_00053_mRNA_67.1	-
GF0021637	1	1	0	Hemexetin (1); Non-LTR reverse transcriptase (1)		Endonuclease/exonuclease/phosphatase [IPRO05135] (2)	scaffold_3_mRNA_5670.1	C_umshii_00060_mRNA_14.1	-
GF0021636	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_5664.1	C_umshii_00053_mRNA_33.1	-
GF0021635	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_5663.1	C_umshii_00053_mRNA_32.1	-
GF0021634	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_5660.1	C_umshii_00053_mRNA_29.1	-
GF0021632	1	1	0	Hypothetical protein (2)	heme binding [GO:0020037] molecular_function (2)	cytochrome c-b2-LHMB30 reductase-like, haem-binding domain [IPRO19020] (*)	scaffold_3_mRNA_5659.1	C_umshii_00053_mRNA_28.1	-
GF0021631	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_5658.1	C_umshii_00053_mRNA_27.1	-
GF0021630	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_5654.1	C_umshii_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 TapA [IPRO23562] (2); ClpP, Ser active site [IPRO18213] (2); ClpP/crotonase-like domain [IPRO09465] (2); ATP-dependent Clp protease proteolytic subunit [IPRO01907] (2); ClpP, histidine active site [IPRO33355] (1)	scaffold_3_mRNA_5647.1	C_umshii_00053_mRNA_17.1	-
GF0021626	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_5621.1	C_umshii_00291_mRNA_22.1	-
GF0021625	1	1	0	DNA-(apurinic or apyrimidinic site) lyase (2)	nuclease activity [GO:0004518] molecular_function (2); DNA repair [GO:0006281] biological_process (2)	AP endonuclease I [IPRO04808] (2); Endonuclease/exonuclease/phosphatase [IPRO05135] (2)	scaffold_3_mRNA_562.1	C_umshii_00318_mRNA_21.1	-
GF0021622	1	1	0	Cellulose synthase (1); Hypothetical protein (1)	cellulose biosynthetic process [GO:0030244] biological_process (1); membrane [GO:0016020] cellular_component (1); cellulose synthase (UDP-forming) activity [GO:0016760] molecular_function (1)	Zinc finger, RINGFYVE/PHD-type [IPRO13083] (2); Nucleotide-diphosphate sugar transferases [IPRO29944] (1); Cellulose synthase [IPRO05150] (1)	scaffold_3_mRNA_5592.1	C_umshii_00139_mRNA_1.1	-
GF0021621	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_5587.1	C_umshii_00007_mRNA_24.1	-
GF0021620	1	1	0	DUF789 family protein (2)		Protein of unknown function DUF789 [IPRO08507] (2)	scaffold_3_mRNA_5586.1	C_umshii_00139_mRNA_6.1	-
GF0021617	1	1	0	Hypothetical protein (1); Putative protein-rich receptor-like protein kinase PERK1 (1)	ATP binding [GO:0005524] molecular_function (2); protein kinase activity [GO:000472] molecular_function (2); protein phosphorylation [GO:0006468] biological_process (2); polyglutaminase activity [GO:0004650] molecular_function (1); carbohydrate metabolic process [GO:0005975] biological_process (1)	Protein kinase domain [IPRO00719] (2); Protein kinase-like domain [IPRO11009] (2); Pectin lyase fold [IPRO12334] (1); Serine-threonine/tyrosine-protein kinase, catalytic domain [IPRO01245] (1); Serine-threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (1); Pectin lyase fold/virulence factor [IPRO1050] (1); Rossmann-like alpha/beta/alpha sandwich fold [IPRO14729] (1); Glycoside hydrolase, family 28 [IPRO00743] (1)	scaffold_3_mRNA_5573.1	C_umshii_00139_mRNA_15.1	-
GF0021614	1	1	0	Hypothetical protein (2)	catalytic activity [GO:0003824] molecular_function (2); transaminase activity [GO:0008483] molecular_function (1); pyridoxal phosphate binding [GO:0030170] molecular_function (1)	Pyridoxal phosphate-dependent transferase, major region, subdomain 2 [IPRO15422] (1); Aminotransferase class-II [IPRO0584] (1); Pyridoxal phosphate-dependent transferase, subdomain 2 [IPRO15422] (1)	scaffold_3_mRNA_5565.1	C_umshii_00662_mRNA_1.1	-
GF0021613	1	1	0	Ribosomal L22e family 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:0005840] cellular_component (2)	Ribosomal protein L22e [IPRO02671] (2)	scaffold_3_mRNA_5546.1	C_umshii_00662_mRNA_24.1	-
GF0021608	1	1	0	Cullin 1 (2)	ubiquitin-dependent protein catabolic 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 homology [IPRO16158] (2); Cullin, N-terminal [IPRO01373] (2); Cullin protein, neddylation domain [IPRO19559] (2); Cullin repeat-like-containing domain [IPRO16159] (2); Winged helix-turn-helix DNA-binding domain [IPRO11991] (2); Cullin conserved site [IPRO16157] (2)	scaffold_3_mRNA_5495.1	C_umshii_00546_mRNA_2.1	-
GF0021607	1	1	0	DUF1713 domain protein (2)		Domain of unknown function DUF1713, mitochondria [IPRO13177] (1); Domain of unknown function DUF1713 [IPRO13177] (1)	scaffold_3_mRNA_549.1	C_umshii_00849_mRNA_18.1	-
GF0021605	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_5487.1	C_umshii_00546_mRNA_9.1	-
GF0021604	1	1	0	Hypothetical protein (2)	cell redox homeostasis [GO:0045454] biological_process (2); electron carrier molecular_function (2); protein disulfide oxidoreductase activity [GO:0015035] molecular_function (2)	Glutaredoxin subgroup [IPRO14025] (2); Thioredoxin-like fold [IPRO12336] (2); Glutaredoxin [IPRO02109] (2); Glutaredoxin-like, plant II [IPRO11905] (2)	scaffold_3_mRNA_5483.1	C_umshii_00546_mRNA_13.1	-
GF0021602	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355] biological_process (2)	FHY3/FAR1 family [IPRO31052] (2); FAR1 DNA binding domain [IPRO04330] (2)	scaffold_3_mRNA_5468.1	C_umshii_00251_mRNA_17.1	-
GF0021601	1	1	0	Hypothetical protein (2)		Serine endopeptidase DegP2 [IPRO15724] (1)	scaffold_3_mRNA_5467.1	C_umshii_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:000472] molecular_function (1); protein phosphorylation [GO:0006468] biological_process (1)	Major facilitator, sugar transporter-like [IPRO05828] (2); Major facilitator superfamily domain [IPRO20846] (2); Protein kinase-like domain [IPRO11009] (1); Serine-threonine/tyrosine-protein kinase, catalytic domain [IPRO01245] (1)	scaffold_3_mRNA_5434.1	C_umshii_00069_mRNA_21.1	-
GF0021590	1	1	0	PALE CRESS protein (PAC) (2)	plastid [GO:0009536] cellular_component (1); leaf development [GO:0048366] biological_process (1); chloroplast organization [GO:0009658] biological_process (1); chloroplast mRNA processing [GO:0010239] biological_process (1)	Protein PALE CRESS [IPRO34563] (1)	scaffold_3_mRNA_5401.1	C_umshii_00069_mRNA_52.1	-



ID	Num. in <i>C. caryophyllata</i>	Num. in <i>C. aculeata</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. caryophyllata</i>	Members in <i>C. aculeata</i>	Members in <i>P. trifoliata</i>
GF0021492	1	1	0	Hypothetical protein (2)	Reverse transcriptase domain [IPR00477] (2); magnesium ion binding [GO:000287 molecular_function] (2); terpene synthase activity [GO:0010333 molecular_function] (2); base activity [GO:001629 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 [IPR01906] (2); Terpenoid cyclase/terpene prenyltransferase alpha-alpha toroid [IPR008930] (2); Isoprenoid synthase domain [IPR00899] (2) Cognate [IPR01734] (2); von Willbrand factor, type A [IPR02035] (2); Zinc finger, RING-FYVE/PHD-type [IPR013083] (1); Zinc finger, RING-type [IPR01841] (1)	scaffold_3_mRNA_4573.1 scaffold_3_mRNA_4572.1	C_unshiu_01878_mRNA_4.1 C_unshiu_00523_mRNA_7.1	-
GF0021491	1	1	0	Isoprene synthase (2)	protein binding [GO:0005515 molecular_function] (1); zinc ion binding [GO:0008270 molecular_function] (1)	Ribonuclease H-like 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	-
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:0003677 molecular_function] (1)	Zinc finger, BED-type [IPR003656] (2); Zinc finger C2H2-type [IPR013087] (1)	scaffold_3_mRNA_4538.1	C_unshiu_00522_mRNA_7.1	-
GF0021487	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (1)	HAT, C-terminal dimerisation domain [IPR008906] (2); Ribonuclease H-like domain [IPR012337] (1)	scaffold_3_mRNA_4519.1	C_unshiu_00502_mRNA_20.1	-
GF0021485	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0046983 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (1)	IDR domain [IPR022867] (2); Zinc finger, RING-FYVE/PHD-type [IPR013083] (2); Zinc finger, RING-type, conserved site [IPR017907] (2); E3 ubiquitin ligase RBR family [IPR031127] (2)	scaffold_3_mRNA_4516.1 scaffold_3_mRNA_4511.1	C_unshiu_00912_mRNA_19.1 C_unshiu_00502_mRNA_15.1	-
GF0021484	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0046983 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (1)	IBR domain [IPR022867] (2); Zinc finger, RING-FYVE/PHD-type [IPR013083] (2); Zinc finger, RING-type, conserved site [IPR017907] (2); E3 ubiquitin ligase RBR family [IPR031127] (2)	scaffold_3_mRNA_4487.1	C_unshiu_00471_mRNA_18.1	-
GF0021483	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0046983 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (1)	BURP domain [IPR004873] (2)	scaffold_3_mRNA_442.1	C_unshiu_00902_mRNA_57.1	-
GF0021481	1	1	0	Hypothetical protein (2)	chitin catabolic process [GO:0006032 biological_process] (2); carbohydrate biological process [GO:0005975 biological_process] (2); chitinase activity [GO:0004568 molecular_function] (2); cell wall macromolecule catabolic process [GO:0016998 biological_process] (2)	Glycoside hydrolase, family 19, catalytic [IPR00726] (2); Lysozyme-like domain [IPR023360] (2); Glycoside hydrolase, family 19 [IPR016283] (2)	scaffold_3_mRNA_4415.1	C_unshiu_00054_mRNA_11.1	-
GF0021480	1	1	0	Class IV chitinase (2)	cell wall macromolecule catabolic process [GO:0016998 biological_process] (2); chitin catabolic process [GO:0006032 biological_process] (2); chitin binding [GO:0008061 molecular_function] (2); chitinase activity [GO:0004568 molecular_function] (2); carbohydrate metabolic process [GO:0005975 biological_process] (2)	Chitin-binding, type 1 [IPR001002] (2); Glycoside hydrolase, family 19, catalytic [IPR00726] (2); Lysozyme-like domain [IPR023360] (2); Glycoside hydrolase, family 19 [IPR016283] (2)	scaffold_3_mRNA_4410.1	C_unshiu_00054_mRNA_15.1	-
GF0021474	1	1	0	Polysialuronase 1 beta-like protein 1 (2)	biological process [GO:0006032 biological_process] (2); carbohydrate biological process [GO:0005975 biological_process] (2); chitinase activity [GO:0004568 molecular_function] (2); cell wall macromolecule catabolic process [GO:0016998 biological_process] (2)	Myb-like domain [IPR017877] (2); Homeobox domain-like [IPR009057] (1); Homeobox domain-like [IPR009057] (1)	scaffold_3_mRNA_4396.1 scaffold_3_mRNA_4392.1	C_unshiu_02214_mRNA_1.1 C_unshiu_00054_mRNA_31.1	-
GF0021473	1	1	0	Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1); NB-ARC [IPR02182] (1); Leucine-rich repeat domain, L domain-like [IPR032675] (1)	scaffold_3_mRNA_4385.1	C_unshiu_00054_mRNA_38.1	-
GF0021468	1	1	0	Hypothetical protein (2)	ADP binding [GO:0045351 molecular_function] (1)	Protein kinase domain [IPR000719] (2); Protein kinase-like domain [IPR011099] (2)	scaffold_3_mRNA_4382.1	C_unshiu_00054_mRNA_40.1	-
GF0021466	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)	PPM-type phosphatase, divalent cation binding [IPR000222] (2); Protein phosphatase 2C family [IPR015655] (2); PPM-type phosphatase domain [IPR001932] (2)	scaffold_3_mRNA_4352.1	C_unshiu_02225_mRNA_3.1	-
GF0021465	1	1	0	Hypothetical protein (2)	protein serine/threonine phosphatase activity [GO:0004722 molecular_function] (2); protein dephosphorylation [GO:0006470 biological_process] (2); cation binding [GO:0043169 molecular_function] (2); catalytic activity [GO:0003824 molecular_function] (2)	Protein of unknown function DUF247, plant [IPR004158] (2); Ribonuclease H-like domain [IPR012337] (1)	scaffold_3_mRNA_4345.1 scaffold_3_mRNA_4339.1	C_unshiu_00528_mRNA_23.1 C_unshiu_01712_mRNA_4.1	-
GF0021462	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	C2 domain [IPR000006] (2); Domain of unknown function DUF4782 [IPR031968] (1); VASS domain [IPR031968] (1)	scaffold_3_mRNA_4333.1	C_unshiu_00528_mRNA_6.1	-
GF0021461	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); DNA binding [GO:0003677 molecular_function] (1)	Transcription factor IIS, N-terminal [IPR01923] (2); Transcription elongation factor S-II, central domain [IPR003618] (2); Transcription elongation factor, TFIIS/CRSP70, N-terminal, sub-type [IPR00307] (2); Transcription elongation factor S-III [IPR017890] (1)	scaffold_3_mRNA_4326.1	C_unshiu_01481_mRNA_5.1	-
GF0021460	1	1	0	Hypothetical protein (2)	F-box/RN1-like superfamily protein 0 isoform 1 (1); F-box/RN1-like superfamily protein isoform 2 (1)	F-box domain [IPR001810] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_3_mRNA_4324.1 scaffold_3_mRNA_4323.1	C_unshiu_00528_mRNA_2.1 C_unshiu_01481_mRNA_2.1	-
GF0021457	1	1	0	Hypothetical protein (2)	transcription elongation factor $\kappa$ -II putative (2)	Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_3_mRNA_4320.1	C_unshiu_00902_mRNA_9.1 C_unshiu_00902_mRNA_5.1	-
GF0021456	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)	Longin-like domain [IPR011012] (2); Trafficking protein particle complex subunit 2 [IPR006722] (2)	scaffold_3_mRNA_4310.1	C_unshiu_00712_mRNA_6.1	-
GF0021455	1	1	0	Hypothetical protein (2)	transcription elongation factor $\kappa$ -II putative (2)	transcription elongation factor $\kappa$ -II putative [IPR003618] (2); Transcription elongation factor, TFIIS/CRSP70, N-terminal, sub-type [IPR00307] (2); Transcription elongation factor S-III [IPR017890] (1)	scaffold_3_mRNA_4308.1 scaffold_3_mRNA_4305.1	C_unshiu_01667_mRNA_3.1 C_unshiu_00651_mRNA_8.1	-
GF0021452	1	1	0	Hypothetical protein (2)	binding [GO:0005488 molecular_function] (1)	Armadillo-like helical [IPR019899] (1); Armadillo-type fold [IPR016024] (1)	scaffold_3_mRNA_4297.1	C_unshiu_00712_mRNA_8.1	-
GF0021450	1	1	0	Hypothetical protein (2)	Plastive Zea mays retrotransposon Optic-2 (1); SLG1-Sc and SLA1-Sc genes and Melnoth retrotransposon sequence (1)	Reverse transcriptase, RNA-dependent DNA polymerase [IPR031103] (1)	scaffold_3_mRNA_4292.1	C_unshiu_01158_mRNA_2.1	-
GF0021449	1	1	0	Hypothetical protein (2)	transcription elongation factor $\kappa$ -II putative (2)	Retrotransposon gag domain [IPR005162] (2)	scaffold_3_mRNA_4286.1	C_unshiu_01093_mRNA_6.1	-
GF0021448	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524 molecular_function] (1)	Malexin [IPR021720] (2); Concavalin A-like lectin/glucanase domain [IPR013320] (1); Protein kinase-like domain [IPR01009] (1); Protein kinase, ATP binding site [IPR017441] (1)	scaffold_3_mRNA_4278.1 scaffold_3_mRNA_4272.1	C_unshiu_00518_mRNA_10.1 C_unshiu_00180_mRNA_5.1	-
GF0021447	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	-
GF0021446	1	1	0	Hypothetical protein (2)	transcription elongation factor $\kappa$ -II putative (2)	Reverse transcriptase domain [IPR000477] (2); Endonuclease/exonuclease/phosphatase [IPR005155] (1)	scaffold_3_mRNA_4232.1 scaffold_3_mRNA_4216.1	C_unshiu_00672_mRNA_17.1 C_unshiu_00232_mRNA_20.1	-
GF0021444	1	1	0	Hypothetical protein (2)	RNA-directed DNA polymerase (Reverse transcriptase) (2)	Domain of unknown function DUF4283 [IPR025558] (2); Reverse transcriptase domain [IPR000477] (1)	scaffold_3_mRNA_4175.1	C_unshiu_01551_mRNA_6.1 C_unshiu_00514_mRNA_2.1 C_unshiu_01953_mRNA_3.1 C_unshiu_00392_mRNA_8.1	-
GF0021443	1	1	0	Hypothetical protein (2)	transcription elongation factor $\kappa$ -II putative (2)	Zinc knuckle CX2CX4HX4C [IPR025836] (2)	scaffold_3_mRNA_4172.1 scaffold_3_mRNA_4139.1	C_unshiu_00669_mRNA_15.1 C_unshiu_00080_mRNA_14.1	-
GF0021433	1	1	0	Hypothetical protein (2)	Similarity to non-LTR retroelement reverse transcriptase (2)	Diphthine- $\alpha$ -mannan ligase/Uncharacterised protein M0570 [IPR030662] (2); Diphthamide synthase domain [IPR02761] (2); Yagf/YER057c/UK114 family [IPR006175] (2); Rossmann-like alpha/beta/alpha sandwich fold [IPR014729] (2); Endoribonuclease L-1 PSP-chromatin esterase-like [IPR013813] (2)	scaffold_3_mRNA_4138.1	C_unshiu_00080_mRNA_12.1	-
GF0021432	1	1	0	Hypothetical protein (2)	transcription elongation factor $\kappa$ -II putative (2)	Diphthine- $\alpha$ -mannan ligase/Uncharacterised protein M0570 [IPR030662] (2); Diphthamide synthase domain [IPR02761] (2); Yagf/YER057c/UK114 family [IPR006175] (2); Rossmann-like alpha/beta/alpha sandwich fold [IPR014729] (2); Endoribonuclease L-1 PSP-chromatin esterase-like [IPR013813] (2)	scaffold_3_mRNA_4134.1	C_unshiu_00080_mRNA_8.1	-
GF0021430	1	1	0	Hypothetical protein (2)	transcription elongation factor $\kappa$ -II putative (2)	Diphthine- $\alpha$ -mannan ligase/Uncharacterised protein M0570 [IPR030662] (2); Diphthamide synthase domain [IPR02761] (2); Yagf/YER057c/UK114 family [IPR006175] (2); Rossmann-like alpha/beta/alpha sandwich fold [IPR014729] (2); Endoribonuclease L-1 PSP-chromatin esterase-like [IPR013813] (2)	scaffold_3_mRNA_4134.1	C_unshiu_00080_mRNA_8.1	-
GF0021429	1	1	0	Hypothetical protein (2)	transcription elongation factor $\kappa$ -II putative (2)	Diphthine- $\alpha$ -mannan ligase/Uncharacterised protein M0570 [IPR030662] (2); Diphthamide synthase domain [IPR02761] (2); Yagf/YER057c/UK114 family [IPR006175] (2); Rossmann-like alpha/beta/alpha sandwich fold [IPR014729] (2); Endoribonuclease L-1 PSP-chromatin esterase-like [IPR013813] (2)	scaffold_3_mRNA_4134.1	C_unshiu_00080_mRNA_8.1	-
GF0021428	1	1	0	Hypothetical protein (2)	transcription elongation factor $\kappa$ -II putative (2)	Diphthine- $\alpha$ -mannan ligase/Uncharacterised protein M0570 [IPR030662] (2); Diphthamide synthase domain [IPR02761] (2); Yagf/YER057c/UK114 family [IPR006175] (2); Rossmann-like alpha/beta/alpha sandwich fold [IPR014729] (2); Endoribonuclease L-1 PSP-chromatin esterase-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. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF0021427	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508 biological_process] (2); aspartic-type endopeptidase activity [GO:0004190 molecular_function] (2)	Aspartic peptidase domain [IPRO21109] (2); Aspartic peptidase, active site [IPRO01969] (2)	scaffold_3_mRNA_4131.1	C_unshiu_00080_mRNA_5.1	-
GF0021426	1	1	0	Hypothetical protein (2)		Protein kinase-like domain [IPRO11009] (2); Protein kinase domain [IPRO00719] (2); Serine/threonine-protein kinase, active site [IPRO08271] (2); Serine/threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (1); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPRO01245] (1); Serine/threonine-specific protein kinase, catalytic domain [IPRO02290] (1)	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] (2); ATP binding [GO:0005524 molecular_function] (2)		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)		Zinc finger, RING-type [IPRO01841] (2); Zinc finger, CHY-type [IPRO08913] (2); Haemerythrin-like [IPRO12312] (2); Zinc finger, C1CHY-type [IPRO17921] (2); Zinc finger, RINGFYVE/PHD-type [IPRO13083] (2); Rubredoxin-type fold [IPRO04039] (1)	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:0005515 molecular_function] (2)		scaffold_3_mRNA_4100.1	C_unshiu_01155_mRNA_3.1	-
GF0021419	1	1	0	Core-2-beta branching beta-1,6-N-acetylglucosaminyltransferase family protein (2)	Core-2-beta branching beta-1,6-N-acetylglucosaminyltransferase activity [GO:0008375 molecular_function] (2); membrane [GO:0016020 cellular_component] (2)	Glycosyl transferase, family 14 [IPRO03406] (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:0016829 molecular_function] (2); terpene synthase activity [GO:0010333 molecular_function] (2); magnesium ion binding [GO:0000287 molecular_function] (2)	Isoprenoid synthase domain [IPRO08949] (2); Terpene synthase, metal-binding domain [IPRO05630] (2); Terpene synthase, N-terminal domain [IPRO01906] (2); Terpenoid cyclases/protein prenyltransferase alpha-alpha toroid [IPRO08930] (2)	scaffold_3_mRNA_4087.1	C_unshiu_01457_mRNA_3.1	-
GF0021416	1	1	0	Sesquiterpene synthase (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 AMg00310 (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) (2)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Leucine-rich repeat [IPRO01611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPRO13210] (2); Leucine-rich repeat, typical subtype [IPRO03591] (1)	scaffold_3_mRNA_4048.1	C_unshiu_01491_mRNA_2.1	-
GF0021411	1	1	0	Hypothetical protein (2)		Class I glutamine amidotransferase-like [IPRO29062] (2); DJ-1/Pip1 [IPRO02818] (2)	scaffold_3_mRNA_4047.1	C_unshiu_01491_mRNA_3.1	-
GF0021410	1	1	0	Hypothetical protein (2)		Protein kinase-like domain [IPRO11009] (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 [IPRO29062] (2); Ribosomal protein L9, N-terminal [IPRO02070] (2); Ribosomal protein L9/RNase H1, N-terminal [IPRO09027] (2); DJ-1/Pip1 [IPRO02818] (2); Ribosomal protein L9 [IPRO00244] (1)	scaffold_3_mRNA_4021.1	C_unshiu_02049_mRNA_5.1	-
GF0021406	1	1	0	RNA-directed DNA polymerase, related (2)		Reverse transcriptase domain [IPRO00477] (2)	scaffold_3_mRNA_4.1	C_unshiu_01604_mRNA_4.1	-
GF0021405	1	1	0	Epidermis-specific secreted glycoprotein EPI (2)		Bull-type lectin domain [IPRO01480] (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 [IPRO24240] (2); Alpha-N-acetylglucosaminidase, im-barrel domain [IPRO04733] (2); Alpha-N-acetylglucosaminidase, C-terminal [IPRO24732] (2); Alpha-N-acetylglucosaminidase [IPRO07781] (2)	scaffold_3_mRNA_396.1	C_unshiu_00092_mRNA_23.1	-
GF0021401	1	1	0	Glycosyl transferase family 1 family protein (1); UDP-Glycosyltransferase superfamily protein isoform 3 (1)		Glycosyl transferase, family 1 [IPRO01296] (2)	scaffold_3_mRNA_3942.1	C_unshiu_00769_mRNA_1.1	-
GF0021400	1	1	0	Hypothetical protein (2)		Glycosyl transferase, family 1 [IPRO01296] (2)	scaffold_3_mRNA_3932.1	C_unshiu_01431_mRNA_1.1	-
GF0021399	1	1	0	Hypothetical protein (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); cysteine-type peptidase activity [GO:0008234 molecular_function] (1); proteolysis [GO:0006508 biological_process] (1)	Tetratricopeptide-like helical domain [IPRO11990] (2); Ulp1 protease family, C-terminal catalytic domain [IPRO03653] (1)	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 [IPRO20683] (2); Ankyrin repeat [IPRO02110] (2)	scaffold_3_mRNA_3911.1	C_unshiu_02956_mRNA_3.1	-
GF0021395	1	1	0	Hypothetical protein (2)		Powdery mildew resistance protein, RPWS domain [IPRO08808] (2)	scaffold_3_mRNA_3899.1	C_unshiu_00438_mRNA_15.1	-
GF0021394	1	1	0	Hypothetical protein (2)		Powdery mildew resistance protein, RPWS domain [IPRO08808] (2)	scaffold_3_mRNA_3898.1	C_unshiu_00438_mRNA_14.1	-
GF0021393	1	1	0	Hypothetical protein (2)		Powdery mildew resistance protein, RPWS domain [IPRO08808] (1)	scaffold_3_mRNA_3894.1	C_unshiu_00438_mRNA_8.1	-
GF0021392	1	1	0	renatropoepoese reeas-containing protein, mitochondrial (1); Pentatricopeptide (PPR) repeat protein (1); Pentatricopeptide repeat-containing protein, mitochondrial (1); Pentatricopeptide repeat (PPR) superfamily protein, putative isoform 2 (1)		Pentatricopeptide repeat [IPRO02885] (2)	scaffold_3_mRNA_3892.1	C_unshiu_00438_mRNA_11.1	-
GF0021391	1	1	0	Hypothetical protein (1); Pentatricopeptide repeat (PPR) superfamily protein, putative isoform 2 (1)		Pentatricopeptide repeat [IPRO02885] (2)	scaffold_3_mRNA_3890.1	C_unshiu_00438_mRNA_6.1	-
GF0021389	1	1	0	Hypothetical protein (2)		SGNH hydrolase-type esterase domain [IPRO13830] (1)	scaffold_3_mRNA_3883.1	C_unshiu_00072_mRNA_34.1	-
GF0021388	1	1	0	Mutator-like transposase (2)		Transposase, MuDR, plant [IPRO04332] (2); MULE transposase domain [IPRO18299] (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 [IPRO17930] (2); Homeodomain-like [IPRO09057] (1)	scaffold_3_mRNA_3857.1	C_unshiu_01069_mRNA_4.1	-
GF0021386	1	1	0	Hypothetical protein (2)			scaffold_3_mRNA_3855.1	C_unshiu_01557_mRNA_2.1	-
GF0021384	1	1	0	HAT dimerisation (1); Hypothetical protein (1)	protein dimerization activity [GO:0046983 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPRO12373] (2); HAT, C-terminal dimerisation domain [IPRO08906] (2)	scaffold_3_mRNA_3842.1	C_unshiu_00095_mRNA_15.1	-
GF0021383	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat [IPRO01611] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (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 [IPRO18485] (2); Carbohydrate kinase, FGGY, N-terminal [IPRO18484] (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:0004866 molecular_function] (2)	Proteinase inhibitor I3, Kunitz legume [IPRO02160] (2); Kunitz inhibitor ST1-like [IPRO11065] (2)	scaffold_3_mRNA_3820.1	C_unshiu_01142_mRNA_10.1	-
GF0021377	1	1	0	Hypothetical protein (2)		Translation protein SH3-like domain [IPRO08991] (1); Ribosomal protein L2 domain 2 [IPRO14722] (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)	glutamine metabolic process [GO:0006541 biological_process] (2); omega peptidase activity [GO:0008242 molecular_function] (2); hydrolase activity [GO:0016787 molecular_function] (2); catalytic activity [GO:0003824 molecular_function] (2)	Class I glutamine amidotransferase-like [IPRO29062] (2); Peptidase C26 [IPRO11697] (2); Peptidase C26, gamma-glutamyl hydrolase [IPRO15527] (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:0000166 molecular_function] (1)	RNA recognition motif domain [IPRO00504] (2); Nucleotide-binding alpha-beta plat domain [IPRO12677] (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 [IPRO12373] (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 [IPRO29962] (2); PMRS N-terminal domain [IPRO25846] (2); PC-Esterase [IPRO26057] (2)	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)		PC-Esterase [IPRO26057] (2); Trichome birefringence-like family [IPRO29962] (2); PMRS N-terminal domain [IPRO25846] (2)	scaffold_3_mRNA_3744.1	C_unshiu_00705_mRNA_12.1	-
GF0021368	1	1	0	Hypothetical protein (1); Putative pentatricopeptide repeat-containing protein, mitochondrial (1)		Pentatricopeptide repeat [IPRO02885] (1)	scaffold_3_mRNA_3720.1	C_unshiu_01537_mRNA_5.1	-
GF0021367	1	1	0	Hypothetical protein (2)		5-formyltetrahydrofolate cyclo-ligase [IPRO26098] (2); 5-formyltetrahydrofolate cyclo-ligase-like domain [IPRO24185] (1)	scaffold_3_mRNA_372.1	C_unshiu_01592_mRNA_5.1	-





ID	Num. in <i>C. caryophyllata</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. caryophyllata</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>	
GF0021233	1	1	0	Hypothetical protein (2)	phosphogluconate dehydrogenase (decarboxylating) activity [GO:00041616] molecular_function (2); oxidation-reduction process [GO:0055114 biological_process] (2) translational termination [GO:0006415 molecular_function] (2)	NAD(P)-binding domain [IPR016040] (2); 6-phosphogluconate dehydrogenase [IPR006183] (2); 6-phosphogluconate dehydrogenase, NADP-binding [IPR006152] (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 termination [GO:0006415 molecular_function] (2); translation release factor activity [GO:0003747 molecular_function] (2)	Peptide chain release factor class I class II [IPR003523] (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 motif nuclear localized protein (1) (2)	DNA binding [GO:0003677 molecular_function] (2) protein binding [GO:0005515 molecular_function] (2); signal transduction [GO:0007165 biological_process] (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	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2); signal transduction [GO:0007165 biological_process] (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)	0	0	scaffold_3_mRNA_2921.1	C_unshiu_03103_mRNA_1.1	-	
GF0021226	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_2918.1	C_unshiu_01031_mRNA_13.1	-	
GF0021225	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPR012337] (1)	scaffold_3_mRNA_2914.1	C_unshiu_01031_mRNA_9.1	-	
GF0021224	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_2913.1	C_unshiu_01031_mRNA_8.1	-	
GF0021223	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_291.1	C_unshiu_01144_mRNA_5.1	-	
GF0021222	1	1	0	Retrospective pol polyprotein-like (2)	0	0	scaffold_3_mRNA_2909.1	C_unshiu_01051_mRNA_1.1	-	
GF0021221	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_2904.1	C_unshiu_01094_mRNA_15.1	-	
GF0021220	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2) trehalose biosynthetic process [GO:0005992 biological_process] (2); catalytic activity [GO:0003824 molecular_function] (2)	Leucine-rich repeat [IPR001611] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2) Trehalose-phosphatase [IPR003337] (2); HAD-like domain [IPR023214] (2)	scaffold_3_mRNA_2903.1	C_unshiu_01094_mRNA_14.1	-	
GF0021219	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_29.1	C_unshiu_00399_mRNA_9.1	-	
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)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); 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 Yc485 (2)	ATP binding [GO:0005524 molecular_function] (2)	AAA+ ATPase domain [IPR003593] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); ATPase, AAA-type, core [IPR03959] (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:0030042 biological_process] (2); intracellular [GO:0005622 cellular_component] (2); actin cytoskeleton [GO:0015629 cellular_component] (2)	ADF-H/gelsolin-like domain [IPR020066] (2); Actin-depolymerizing factor homology domain [IPR002108] (2); ADF/cofilin domain [IPR017904] (1); ADF/cofilin [IPR017904] (1)	scaffold_3_mRNA_287.1	C_unshiu_01144_mRNA_9.1	-	
GF0021213	1	1	0	Hypothetical protein (2)	ubiquitin-dependent protein catabolic process [GO:0006513 biological_process] (1); multicellular organismal development [GO:0007275 biological_process] (1); nucleus [GO:0005634 cellular_component] (1)	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:0043531 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); AAA+ ATPase domain [IPR003593] (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:0042578 molecular_function] (2)	SAC domain [IPR020213] (2); WW domain [IPR01202] (2)	scaffold_3_mRNA_2854.1	C_unshiu_00518_mRNA_13.1	-	
GF0021210	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_2853.1	C_unshiu_00518_mRNA_12.1	-	
GF0021207	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_2834.1	C_unshiu_01977_mRNA_3.1	-	
GF0021206	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_2832.1	C_unshiu_00596_mRNA_9.1	-	
GF0021205	1	1	0	F-box protein SKP23 (2)	0	0	scaffold_3_mRNA_2831.1	C_unshiu_00596_mRNA_10.1	-	
GF0021203	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_2823.1	C_unshiu_02456_mRNA_4.1	-	
GF0021201	1	1	0	Hypothetical protein (2)	zinc ion binding [GO:0008270 molecular_function] (1)	Transposase, MuDR, plant [IPR004332] (2); Zinc finger, PMZ-type [IPR006564] (1); Zinc finger, SWIM-type [IPR007527] (1)	scaffold_3_mRNA_2806.1	C_unshiu_00097_mRNA_1.1	-	
GF0021199	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_2802.1	C_unshiu_01224_mRNA_5.1	-	
GF0021198	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_2801.1	C_unshiu_00181_mRNA_31.1	-	
GF0021196	1	1	0	Hypothetical protein (2)	0	0	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)	0	0	scaffold_3_mRNA_2768.1	C_unshiu_00313_mRNA_3.1	-	
GF0021193	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_2766.1	C_unshiu_00441_mRNA_1.1	-	
GF0021191	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508 biological_process] (2); cysteine-type peptidase activity [GO:0008234 molecular_function] (2)	Domain of unknown function DUF1985 [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)	nucleic acid binding [GO:0003676 molecular_function] (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)	0	0	scaffold_3_mRNA_2751.1	C_unshiu_00723_mRNA_10.1	-	
GF0021188	1	1	0	Tubulin beta-9 chain (1); Tubulin beta-9 chain (1)	microtubule-based process [GO:0007017 biological_process] (2); GTP binding [GO:0005525 molecular_function] (2); structural constituent of cytoskeleton [GO:0005200 molecular_function] (2); microtubule [GO:0005874 cellular_component] (2); GTPase activity [GO:0003924 molecular_function] (2)	Beta tubulin [IPR022453] (2); Tubulin, conserved site [IPR017975] (2); Tubulin/FtsZ, GTPase domain [IPR030088] (2); Beta tubulin, autoinhibition binding site [IPR013838] (2); Tubulin [IPR000217] (2); Tubulin, C-terminal [IPR023123] (1)	scaffold_3_mRNA_275.1	C_unshiu_01325_mRNA_6.1	-	
GF0021187	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_2747.1	C_unshiu_01266_mRNA_5.1	-	
GF0021186	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_2746.1	C_unshiu_00948_mRNA_2.1	-	
GF0021185	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_2745.1	C_unshiu_01266_mRNA_6.1	-	
GF0021184	1	1	0	Suppressor of apr1-1, 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 [GO:0043531 molecular_function] (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)	0	0	scaffold_3_mRNA_2738.1	C_unshiu_02202_mRNA_2.1	-	
GF0021180	1	1	0	Protein SUPPRESSOR OF apr1-1, CONSTITUTIVE 1 (2)	protein binding [GO:0005515 molecular_function] (2); ADP binding [GO:0043531 molecular_function] (1)	Leucine-rich repeat 3 [IPR011713] (2); Leucine-rich repeat, typical subtype [IPR003591] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1); NB-ARC [IPR002182] (1)	scaffold_3_mRNA_2727.1	C_unshiu_00991_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:0043531 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2)	NB-ARC [IPR002182] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Toll interleukin-1 receptor homology (TIR) domain [IPR000157] (2); Repeat of unknown function NGLT1 [IPR001641] (3); Leucine-rich repeat [IPR001611] (1); Winged helix-turn-helix DNA-binding domain [IPR011991] (1); Leucine-rich repeat, typical subtype [IPR003591] (1); Leucine-rich repeat 3 [IPR011713] (1)	scaffold_3_mRNA_2723.1	C_unshiu_02362_mRNA_3.1	-	
GF0021178	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_2719.1	C_unshiu_01276_mRNA_2.1	-	
GF0021177	1	1	0	Hypothetical protein (2)	0	0	scaffold_3_mRNA_2714.1	C_unshiu_01276_mRNA_8.1	-	
GF0021176	1	1	0	Hypothetical protein (2)	0	0	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)	Retrotransposon gag domain [IPR005162] (2); Aspartic peptidase domain [IPR01109] (2); Ribonuclease H-like domain [IPR012337] (1)	scaffold_3_mRNA_2702.1	C_unshiu_01030_mRNA_4.1	-	











ID	Num. in <i>C. celermarinae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. celermarinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF0020855	1	1	0	DUF247 domain protein (1); UFP0481 protein (1)		Protein of unknown function DUF247, plant [IPR004158] (2)	scaffold_2_mRNA_801.1	C_unshiu_00550_mRNA_15.1	-
GF0020854	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_797.1	C_unshiu_00550_mRNA_11.1	-
GF0020853	1	1	0	DUF594 family protein (2)		Protein of unknown function DUF594 [IPR07658] (2); Domain of unknown function DUF4230 [IPR05315] (2)	scaffold_2_mRNA_788.1	C_unshiu_00550_mRNA_1.1	-
GF0020852	1	1	0	Hypothetical protein (2)		Protein of unknown function DUF594 [IPR07658] (2)	scaffold_2_mRNA_787.1	C_unshiu_00260_mRNA_39.1	-
GF0020851	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_783.1	C_unshiu_00260_mRNA_35.1	-
GF0020850	1	1	0	Transcription factor bHLH130 (1); Transcription factor bHLH122 (1)	protein dimerization activity [GO:0046983 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:0055114 biological_process] (2); heme binding [GO:0020037 molecular_function] (2); iron ion binding [GO:0005506 molecular_function] (2)	Myc-type, basic helix-loop-helix (bHLH) domain [IPR011598] (2)	scaffold_2_mRNA_775.1	C_unshiu_00260_mRNA_28.1	-
GF0020849	1	1	0	Flavonoid 3'-monooxygenase (2)		Cytochrome P450, E-class, group I [IPR020401] (2); Cytochrome P450, conserved site [IPR017972] (2); Cytochrome P450 [IPR001128] (2)	scaffold_2_mRNA_772.1	C_unshiu_00260_mRNA_23.1	-
GF0020847	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_761.1	C_unshiu_00260_mRNA_15.1	-
GF0020846	1	1	0	Cysteine protease (1); Hypothetical protein (1)	biosynthetic process [GO:0009058 biological_process] (2); cysteine-type peptidase activity [GO:0008234 molecular_function] (2); transferase activity [GO:0016740 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2); farnesyl-diphosphate farnesyltransferase activity [GO:0004310 molecular_function] (1); transferase activity, transferring alkyl or aryl (other than methyl) groups [GO:0016765 molecular_function] (1); ergosterol biosynthetic process [GO:0006696 biological_process] (1); squalene synthase activity [GO:00051996 molecular_function] (1)	Isoprenoid synthase domain [IPR008949] (2); Cysteine peptidase, histidine active site [IPR025660] (2); Cysteine peptidase, cysteine active site [IPR001691] (2); Squalene/phytoene synthase [IPR002060] (2); Peptidase C1A [IPR013128] (2); Calthosin propeptide inhibitor domain (D9) [IPR01201] (2); Cysteine peptidase, asparagine active site [IPR025661] (2); Peptidase C1A, papain C-terminal [IPR000668] (2); Trans-isoprenyl Diphosphate Synthases, head-to-head [IPR033904] (1); Squalene/phytoene synthase, conserved site [IPR019845] (1)	scaffold_2_mRNA_76.1	C_unshiu_00213_mRNA_28.1	-
GF0020845	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_759.1	C_unshiu_00260_mRNA_14.1	-
GF0020844	1	1	0	UDP-glucose flavonoid 3-O-glucosyltransferase 7 (2)	metabolic process [GO:0008152 biological_process] (2); transferase activity, transferring hexosyl groups [GO:0016758 molecular_function] (2); transferase activity, transferring alkyl or aryl (other than methyl) groups [GO:0016765 molecular_function] (2); biosynthetic process [GO:0009058 biological_process] (2); transferase activity [GO:0016740 molecular_function] (2); farnesyl-diphosphate farnesyltransferase activity [GO:0004310 molecular_function] (1); squalene synthase activity [GO:00051996 molecular_function] (1); ergosterol biosynthetic process [GO:0006696 biological_process] (1)	UDP-glucosyltransferase [IPR022131] (2)	scaffold_2_mRNA_751.1	C_unshiu_00260_mRNA_6.1	-
GF0020843	1	1	0	Phytoene synthase (2)	metabolic process [GO:0008152 biological_process] (2); transferase activity, transferring hexosyl groups [GO:0016758 molecular_function] (2); phosphoryl signal transduction system [GO:000160 biological_process] (2); signal transducer activity [GO:0004871 molecular_function] (2)	UDP-glucosyltransferase [IPR022131] (2)	scaffold_2_mRNA_751.1	C_unshiu_00260_mRNA_5.1	-
GF0020842	1	1	0	UDP-glucose flavonoid 3-O-glucosyltransferase 7 (2)	metabolic process [GO:0008152 biological_process] (2); transferase activity, transferring hexosyl groups [GO:0016758 molecular_function] (2); phosphoryl signal transduction system [GO:000160 biological_process] (2); signal transducer activity [GO:0004871 molecular_function] (2)	UDP-glucosyltransferase [IPR022131] (2)	scaffold_2_mRNA_743.1	C_unshiu_00260_mRNA_5.1	-
GF0020841	1	1	0	Histidine-containing phosphotransfer protein 4 (2)	oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen [GO:0016702 molecular_function] (2); metal ion binding [GO:0046872 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2); metal ion binding [GO:0046872 molecular_function] (2); oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen [GO:0016702 molecular_function] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2)	Signal transduction histidine kinase, phosphotransfer (Hpt) domain [IPR008207] (2)	scaffold_2_mRNA_738.1	C_unshiu_00028_mRNA_25.1	-
GF0020837	1	1	0	Lipoxygenase (2)	oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen [GO:0016702 molecular_function] (2); metal ion binding [GO:0046872 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2)	Lipoxygenase, plant [IPR001246] (2); Lipoxygenase, domain 3 [IPR027433] (2); PLAT/LH2 domain [IPR001024] (2); Lipoxygenase, conserved site [IPR020834] (2); Lipoxygenase, iron binding site [IPR020833] (2); Lipoxygenase, C-terminal [IPR013819] (2)	scaffold_2_mRNA_708.1	C_unshiu_00076_mRNA_52.1	-
GF0020836	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2); metal ion binding [GO:0046872 molecular_function] (2); oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen [GO:0016702 molecular_function] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2)	Lipoxygenase, C-terminal [IPR013819] (2); Lipoxygenase, conserved site [IPR020834] (2); Lipoxygenase, C-terminal [IPR001024] (2); Lipoxygenase, plant [IPR001246] (2)	scaffold_2_mRNA_705.1	C_unshiu_00871_mRNA_11.1	-
GF0020834	1	1	0	Putative lipoxygenase 5 (2)	oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen [GO:0016702 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Lipoxygenase, C-terminal [IPR013819] (2); Lipoxygenase, conserved site [IPR020834] (2); Lipoxygenase, C-terminal [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:0005515 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2)	Lipoxygenase, conserved site [IPR020834] (2); Lipoxygenase, C-terminal [IPR001024] (2); Lipoxygenase, plant [IPR001246] (2)	scaffold_2_mRNA_697.1	C_unshiu_00076_mRNA_44.1	-
GF0020832	1	1	0	Lipoxygenase (2)	metal ion binding [GO:0046872 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2)	Lipoxygenase, conserved site [IPR020834] (2); Lipoxygenase, C-terminal [IPR001024] (2); Lipoxygenase, plant [IPR001246] (2)	scaffold_2_mRNA_695.1	C_unshiu_00076_mRNA_42.1	-
GF0020831	1	1	0	Retransposon protein, putative, Ty1-opsis subclass (2)	zinc ion binding [GO:0008270 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Lipoxygenase, conserved site [IPR020834] (2); Lipoxygenase, C-terminal [IPR001024] (2); Lipoxygenase, plant [IPR001246] (2)	scaffold_2_mRNA_692.1	C_unshiu_00076_mRNA_10.1	-
GF0020829	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_684.1	C_unshiu_00076_mRNA_37.1	-
GF0020828	1	1	0	Acetyl-coenzyme A synthetase (2)	metabolic process [GO:0008152 biological_process] (2); catalytic activity [GO:0003824 molecular_function] (2)	AMP binding, conserved site [IPR020845] (2); AMP-dependent synthetase/ligase [IPR000873] (2)	scaffold_2_mRNA_682.1	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); protein serine/threonine kinase activity [GO:0004674 molecular_function] (2); protein kinase activity [GO:0004672 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2); recognition of pollen [GO:0048544 biological_process] (1)	Bull-type lectin domain [IPR001480] (2); Protein kinase, ATP binding site [IPR017441] (2); Serine/threonine-protein kinase, active site [IPR008271] (2); Protein kinase-like domain [IPR011099] (2); S-receptor-like serine/threonine-protein kinase [IPR024171] (2); Protein kinase domain [IPR007119] (2); S-leucos glycoprotein domain [IPR008558] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1); Concavalin A-like lectin/glucanase domain [IPR013320] (1)	scaffold_2_mRNA_678.1	C_unshiu_00076_mRNA_31.1	-
GF0020826	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_667.1	C_unshiu_00076_mRNA_20.1	-
GF0020824	1	1	0	Hypothetical protein (2)	magnesium ion binding [GO:0000287 molecular_function] (2); lyase activity [GO:0016529 molecular_function] (2); terpene synthase activity [GO:0010333 molecular_function] (2); metabolic process [GO:0008152 biological_process] (1)	Isoprenoid synthase domain [IPR008949] (2); Terpene synthase, metal-binding domain [IPR005630] (2); Terpene cyclase/protein prenyltransferase alpha-toroid [IPR008930] (2); Terpene synthase, N-terminal domain [IPR01906] (1)	scaffold_2_mRNA_650.1	C_unshiu_00076_mRNA_11.1	-
GF0020823	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_612.1	C_unshiu_00029_mRNA_29.1	-
GF0020822	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_611.1	C_unshiu_00029_mRNA_30.1	-
GF0020820	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_61.1	C_unshiu_00109_mRNA_60.1	-
GF0020819	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524 molecular_function] (2); formate-tetrahydrofolate ligase activity [GO:0004329 molecular_function] (2); folic acid-containing compound biosynthetic process [GO:0009396 biological_process] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Formate-tetrahydrofolate ligase, FTfHS [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:0005524 molecular_function] (2); formate-tetrahydrofolate ligase activity [GO:0004329 molecular_function] (2); folic acid-containing compound biosynthetic process [GO:0009396 biological_process] (2)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Formate-tetrahydrofolate ligase, FTfHS [IPR000559] (2)	scaffold_2_mRNA_606.1	C_unshiu_00029_mRNA_37.1	-

ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</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 [IPRO011009] (2); Protein kinase domain [IPRO00719] (2); Pentatricopeptide repeat [IPRO2885] (2); Serine/threonine-protein kinase, active site [IPRO08271] (2); Serine/threonine/tyrosine-specific protein kinase, catalytic domain [IPRO02290] (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 incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2)	Cytochrome P450 [IPRO01128] (2); Cytochrome P450, E-class, group I [IPRO02401] (2)	scaffold_2_mRNA_545.1	C_unshiu_00023_mRNA_7.1	-
GF0020813	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_544.1	C_unshiu_00023_mRNA_8.1	-
GF0020812	1	1	0	Serine/threonine-protein phosphatase PPA-1 catalytic subunit (1); Serine/threonine-protein phosphatase PPA2 catalytic subunit (1)	hydrolase activity [GO:0016787 molecular_function] (2)	Serine/threonine-specific protein phosphatase/bisphospho(serine/threonine) tetraphosphatase [IPRO06186] (2); Metallo-dependent phosphatase-like [IPRO29052] (2); Calcineurin-like phosphoesterase domain, apaf1 type [IPRO04843] (1); Calcineurin-like phosphoesterase domain, apaf1 type [IPRO04843] (1); Calcineurin-propeptide inhibitor domain (29) [IPRO13201] (2); Peptidase C1A, papain C-terminal [IPRO00668] (2); Cysteine peptidase, asparagine active site [IPRO25661] (2); Cysteine peptidase, histidine active site [IPRO25660] (2); Peptidase C1A [IPRO13128] (2)	scaffold_2_mRNA_531.1	C_unshiu_00023_mRNA_22.2	-
GF0020811	1	1	0	Vignin (2)	cysteine-type peptidase activity [GO:0005234 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Ulp1 protease family, C-terminal catalytic domain [IPRO03653] (2); Carbohydrate/puine kinase, PkKB, conserved site [IPRO02175] (2); Carbohydrate kinase PkAB [IPRO011611] (2); Ribokinase-like [IPRO29056] (2)	scaffold_2_mRNA_529.1	C_unshiu_00023_mRNA_24.1	-
GF0020810	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_525.1	C_unshiu_00062_mRNA_41.1	-
GF0020809	1	1	0	Hypothetical protein (2)	cysteine-type peptidase activity [GO:0005234 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 [IPRO03653] (2); Carbohydrate/puine kinase, PkKB, conserved site [IPRO02175] (2); Carbohydrate kinase PkAB [IPRO011611] (2); Ribokinase-like [IPRO29056] (2)	scaffold_2_mRNA_520.1	C_unshiu_00062_mRNA_35.1	-
GF0020808	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPRO32675] (2)	scaffold_2_mRNA_519.1	C_unshiu_00062_mRNA_33.1	-
GF0020807	1	1	0	Hypothetical protein (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 phosphoribohydrolase (2)		LOG family [IPRO31100] (2); Cytokinin riboside 5'-monophosphate phosphoribohydrolase LOG [IPRO05269] (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:0003677 molecular_function] (2); regulation of transcription, DNA-templated [GO:0006355 biological_process] (2)	NAC domain [IPRO03441] (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	DUF2431 domain protein (2)		Domain of unknown function DUF2431 [IPRO19446] (2)	scaffold_2_mRNA_471.1	C_unshiu_00077_mRNA_73.1	-
GF0020794	1	1	0	Hypothetical protein (2)	sulfotransferase activity [GO:0008146 molecular_function] (2)	P-loop containing nucleoside triphosphate hydrolase [IPRO02147] (2); Sulfotransferase domain [IPRO00863] (2)	scaffold_2_mRNA_471.1	C_unshiu_00061_mRNA_15.1	-
GF0020793	1	1	0	Pentatricopeptide (1); Hypothetical protein (1)	protein binding [GO:0005515 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (1)	(2); Tetra- and pentatricopeptide-like helical domain [IPRO11900] (2); DWV domain [IPRO32867] (1)	scaffold_2_mRNA_470.1	C_unshiu_00077_mRNA_65.1	-
GF0020792	1	1	0	Pectinesterase inhibitor (2)	enzyme inhibitor activity [GO:0004857 molecular_function] (2)	Pectinesterase inhibitor domain [IPRO06951] (2)	scaffold_2_mRNA_470.1	C_unshiu_00077_mRNA_63.1	-
GF0020791	1	1	0	5sRfNA-activating protein complex subunit 3 isoform 3 (2)		sRNA-activating protein complex, subunit 3 [IPRO22042] (2)	scaffold_2_mRNA_470.1	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 [IPRO06121] (2)	scaffold_2_mRNA_467.1	C_unshiu_00077_mRNA_34.1	-
GF0020789	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_467.1	C_unshiu_00077_mRNA_31.1	-
GF0020788	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_467.1	C_unshiu_00062_mRNA_11.1	-
GF0020786	1	1	0	CASP-like protein 2B1 (2)		Domain of unknown function DUF588 [IPRO06702] (2); Caspases strip membrane protein [IPRO06459] (2)	scaffold_2_mRNA_465.1	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 monophosphatase (2)	phosphatidylinositol phosphorylation [GO:0046854 biological_process] (2); inositol phosphate dephosphorylation [GO:0046855 biological_process] (1); inositol monophosphate 1-phosphatase activity [GO:0008034 molecular_function] (1)	Inositol monophosphatase, metal-binding site [IPRO20553] (2); Inositol monophosphatase, conserved site [IPRO20550] (2); Inositol monophosphatase, Lithium-sensitive [IPRO20552] (1); Inositol monophosphatase-like [IPRO00760] (1); Inositol monophosphatase [IPRO033942] (1); Inositol monophosphatase [IPRO00760] (1)	scaffold_2_mRNA_464.1	C_unshiu_00077_mRNA_6.2	-
GF0020783	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_463.1	C_unshiu_00337_mRNA_45.1	-
GF0020782	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_463.1	C_unshiu_00337_mRNA_40.1	-
GF0020781	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2)	F-box domain [IPRO01810] (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:0004672 molecular_function] (2); protein serine/threonine kinase activity [GO:0004674 molecular_function] (1)	Protein kinase domain [IPRO00719] (2); Protein kinase-like domain [IPRO011009] (2); Serine/threonine-protein kinase, active site [IPRO08271] (2); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPRO01245] (1); Serine/threonine/tyrosine-specific protein kinase catalytic domain [IPRO01245] (1); Serine/threonine-protein kinase HT1, plant [IPRO15783] (1)	scaffold_2_mRNA_461.1	C_unshiu_00337_mRNA_26.1	-
GF0020778	1	1	0	BAH and coiled-coil domain-containing (2)	chromatin binding [GO:0003682 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (2)	Bromo adjacent homology (BAH) domain [IPRO01025] (2); Zinc finger, FYVE/PHD-type [IPRO11011] (2); Zinc finger, RING1/YVY/PHD-type [IPRO13083] (2); Zinc finger, PHD-type conserved site [IPRO19786] (2); Zinc finger, PHD-type [IPRO19651] (2); Zinc finger, PHD-finger [IPRO19787] (2)	scaffold_2_mRNA_459.1	C_unshiu_00337_mRNA_3.1	-
GF0020775	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_459.1	C_unshiu_00061_mRNA_3.1	-
GF0020773	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_459.1	C_unshiu_00048_mRNA_1.1	-
GF0020772	1	1	0	Pectate lyase (2)		Pectin lyase fold/virulence factor [IPRO11050] (2); Pectate lyase fold [IPRO12334] (2); Pectate lyase/Amb allergen [IPRO02022] (2); Amb-Allergen [IPRO18052] (2)	scaffold_2_mRNA_457.1	C_unshiu_00048_mRNA_2.1	-
GF0020771	1	1	0	Peroxisomal membrane protein PMP22 (2)	integral component of membrane [GO:0016021 cellular_component] (2)	Mpv17/PMP22 [IPRO07248] (2)	scaffold_2_mRNA_457.1	C_unshiu_00048_mRNA_10.1	-
GF0020770	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_456.1	C_unshiu_00048_mRNA_14.1	-
GF0020769	1	1	0	Autophagy-related protein 8C (2)		Ubiquitin-related domain [IPRO29071] (2); Autophagy protein Atg8 ubiquitin-like [IPRO04241] (2)	scaffold_2_mRNA_455.2	C_unshiu_00048_mRNA_29.2	-
GF0020768	1	1	0	Senescence regulator (2)		Senescence regulator S40 [IPRO07608] (2)	scaffold_2_mRNA_455.1	C_unshiu_00048_mRNA_31.1	-
GF0020767	1	1	0	ATP synthase F1, gamma subunit (2)	ATP synthesis coupled proton transport [GO:0015986 biological_process] (2); proton-transporting ATP synthase activity, rotational mechanism [GO:0046933 molecular_function] (2); proton-transporting ATP synthase complex, catalytic core F1 [GO:0045261 cellular_component] (2); proton-transporting ATPase activity, rotational mechanism [GO:0046961 molecular_function] (1)	ATP synthase, F1 complex, gamma subunit conserved site [IPRO23632] (1); ATPase, F1 complex, gamma subunit domain [IPRO23633] (1); ATPase, F1 complex, gamma subunit conserved site [IPRO23632] (1); ATP synthase, F1 complex, gamma subunit [IPRO00131] (1); ATPase, F1 complex, gamma subunit [IPRO00131] (1)	scaffold_2_mRNA_454.1	C_unshiu_00048_mRNA_33.1	-

ID	Num. in <i>C. clementinae</i>	Num. in <i>C. anthoni</i>	Num. in <i>P. trifoliate</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. anthoni</i>	Members in <i>P. trifoliate</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:0016020 cellular_component] (2); drug transmembrane transport [GO:0006855 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (1); oxidation-reduction process [GO:0055114 biological_process] (1); FMN binding [GO:0010181 molecular_function] (1); catalytic activity [GO:0003824 molecular_function] (1)	Multi antimicrobial extrusion protein [IPRO02538] (2); Alpha-hydroxy acid dehydrogenase, FMN-dependent [IPRO12133] (1); FMN-dependent alpha-hydroxy acid dehydrogenase, active site [IPRO0829] (1); Adenosine-type TIM barrel [IPRO13785] (1); FMN-dependent dehydrogenase [IPRO00262] (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 [IPRO22755] (2); Zinc finger C2H2-type/integrase DNA-binding domain [IPRO13087] (1); Zinc finger, C2H2-like [IPRO15880] (1); Zinc finger, C2H2 [IPRO010971] (1); Zinc finger C2H2-type [IPRO13087] (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 [IPRO12357] (2)	scaffold_2_mRNA_452.1	C_unshiu_01757_mRNA_6.1	-
GF0020760	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPRO12357] (2)	scaffold_2_mRNA_4512.1	C_unshiu_00107_mRNA_27.1	-
GF0020759	1	1	0	Dopamine beta-monoxygenase, putative (1); Eukaryotic cytochrome b561 protein (1)	integral component of membrane [GO:0016021 cellular_component] (1)	Cytochrome b561/ferrous reductase transmembrane [IPRO06593] (2); Cytochrome b561 domain [IPRO04877] (1)	scaffold_2_mRNA_4505.1	C_unshiu_00048_mRNA_70.1	-
GF0020758	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_4504.1	C_unshiu_00048_mRNA_71.1	-
GF0020757	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_4500.1	C_unshiu_00048_mRNA_75.1	-
GF0020756	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_450.1	C_unshiu_01757_mRNA_8.1	-
GF0020755	1	1	0	superfamily protein isoform 2 (1); 3-beta hydroxysteroid dehydrogenase/isomerase (1)	NAD(P)-binding Rossmann-fold [GO:0000166 molecular_function] (2)	NAD(P)-binding domain [IPRO16040] (2)	scaffold_2_mRNA_4499.1	C_unshiu_00048_mRNA_76.1	-
GF0020754	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 [IPRO02100] (2)	scaffold_2_mRNA_4492.1	C_unshiu_00048_mRNA_81.1	-
GF0020752	1	1	0	Glycosyl hydrolase family protein (2)	hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular_function] (2); carbohydrate metabolic process [GO:0005975 biological_process] (2)	Glycoside hydrolase family 3 C-terminal domain [IPRO02772] (2); Glycoside hydrolase, family 3, N-terminal [IPRO01764] (2); Fibronectin type III-like domain [IPRO08891] (2); Glycoside hydrolase superfamily [IPRO17853] (2); Immunoglobulin-like fold [IPRO13783] (1); Glycoside hydrolase family 3 [IPRO26892] (1)	scaffold_2_mRNA_4486.1	C_unshiu_00048_mRNA_86.1	-
GF0020751	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_4484.1	C_unshiu_00048_mRNA_88.1	-
GF0020750	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_4482.1	C_unshiu_00048_mRNA_91.1	-
GF0020749	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_448.1	C_unshiu_00244_mRNA_17.1	-
GF0020748	1	1	0	RNA recognition motif 2 in plant MEI2-like protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2); nucleotide binding [GO:0000012 molecular_function] (1)	RNA recognition motif domain [IPRO00504] (2); MEI2-like, RNA recognition motif 1 [IPRO34453] (1); RNA recognition motif 2 [IPRO07201] (1); MEI2-like, RNA recognition motif 3 [IPRO34454] (1); Nucleotide-binding alpha-beta plat domain [IPRO12677] (1); MEI2/MEI2-like, C-terminal RNA recognition motif [IPRO07201] (1)	scaffold_2_mRNA_4462.1	C_unshiu_00074_mRNA_33.1	-
GF0020747	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_446.1	C_unshiu_00244_mRNA_21.1	-
GF0020746	1	1	0	Bidirectional sugar transporter SWEET2 (2)	integral component of membrane [GO:0016021 cellular_component] (2)	SWEET sugar transporter [IPRO04316] (2)	scaffold_2_mRNA_4450.1	C_unshiu_00002_mRNA_8.1	-
GF0020745	1	1	0	Protein transporter Sec61 subunit alpha isoform 2 (2)	protein transport [GO:0015031 biological_process] (2); protein retention in ER lumen [GO:0006621 biological_process] (2); integral component of membrane [GO:0016021 cellular_component] (2); ER retention sequence binding [GO:0040923 molecular_function] (2); membrane [GO:0016020 cellular_component] (2)	SecY conserved site [IPRO06059] (2); SecY/SEC61-alpha family [IPRO02208] (2); Translocon Sec61/SecY, plug domain [IPRO19561] (2); ER lumen protein retaining receptor [IPRO00133] (2); SecY subunit domain [IPRO23201] (2)	scaffold_2_mRNA_4421.1	C_unshiu_00002_mRNA_37.1	-
GF0020744	1	1	0	Cellulose synthase (2)	cellular component (2); cellulose synthase (UDP-forming) activity [GO:0016760 molecular_function] (2); cellulose biosynthetic process [GO:0003244 biological_process] (2)	Nucleotide-diphospho-sugar transferases [IPRO29044] (2); Zinc finger, RING-FYVE/PHD-type [IPRO13083] (2); Cellulose synthase, RING-type zinc finger [IPRO07934] (2); Cellulose synthase [IPRO01550] (2)	scaffold_2_mRNA_4408.1	C_unshiu_00002_mRNA_50.1	-
GF0020741	1	1	0	Tig (2)		Conserved hypothetical protein CHP02058 [IPRO11719] (2); Tubulin FvZ, 2-layer sandwich domain [IPRO18316] (2)	scaffold_2_mRNA_4368.2	C_unshiu_00002_mRNA_88.1	-
GF0020738	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (1)	Pentapeptide repeat [IPRO02885] (2); Tetratricopeptide-like helical domain [IPRO11990] (1)	scaffold_2_mRNA_4361.1	C_unshiu_00002_mRNA_93.1	-
GF0020737	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_435.1	C_unshiu_00244_mRNA_34.1	-
GF0020736	1	1	0	ATP synthase mitochondrial F1 complex assembly factor 1 (2)	mitochondrion [GO:0005739 cellular_component] (2); protein complex assembly [GO:0006461 biological_process] (2)	ATP11 [IPRO10591] (2)	scaffold_2_mRNA_4347.1	C_unshiu_00002_mRNA_107.1	-
GF0020735	1	1	0	Ethylene-responsive transcription factor ERF91 (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); transcription factor activity, sequence-specific DNA binding [GO:0003700 molecular_function] (2); DNA binding [GO:0003677 molecular_function] (2)	DNA-binding domain [IPRO16177] (2); AP2/ERF domain [IPRO01471] (2)	scaffold_2_mRNA_4340.1	C_unshiu_00002_mRNA_114.1	-
GF0020734	1	1	0	Eugenol O-methyltransferase (1); O-methyltransferase ZRP4 (1)	O-methyltransferase activity [GO:0008171 molecular_function] (2); protein dimerization activity [GO:0046983 molecular_function] (2); methyltransferase activity [GO:0008168 molecular_function] (2)	Winged helix-helix DNA-binding domain [IPRO11991] (2); O-methyltransferase, family 2 [IPRO1077] (2); O-methyltransferase COMT-type [IPRO16461] (2); Protein of unknown function DUF599 [IPRO06747] (2); Plant methyltransferase dimerisation [IPRO12967] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPRO29063] (2)	scaffold_2_mRNA_4325.1	C_unshiu_00004_mRNA_127.1	-
GF0020733	1	1	0	MLO protein homolog 1 (2)	integral component of membrane [GO:0016021 cellular_component] (2); defense response [GO:0006952 biological_process] (2)	Mlo-related protein [IPRO04326] (2)	scaffold_2_mRNA_4323.1	C_unshiu_00002_mRNA_129.1	-
GF0020729	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_4283.1	C_unshiu_00310_mRNA_30.1	-
GF0020728	1	1	0	80S ribosomal protein L21, mitochondrial (2)	structural constituent of ribosome [GO:0003735 molecular_function] (2); intracellular [GO:0005622 cellular_component] (2); translation [GO:0006412 biological_process] (2); ribosome [GO:0005840 cellular_component] (2); RNA binding [GO:0003723 molecular_function] (2)	Ribosomal protein L21 [IPRO01787] (2); Ribosomal protein L21, conserved site [IPRO18288] (2); Ribosomal protein L21-like [IPRO28099] (2)	scaffold_2_mRNA_4276.1	C_unshiu_00002_mRNA_174.1	-
GF0020727	1	1	0	Stems-specific protein TSFT1 (2)		Domain of unknown function DUF3700 [IPRO24286] (2); Nucleophile aminohydrolase, N-terminal [IPRO29055] (2)	scaffold_2_mRNA_4259.1	C_unshiu_00002_mRNA_192.1	-
GF0020725	1	1	0	Serine/threonine-protein kinase receptor (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 domain [IPRO00719] (2); Protein kinase-like domain [IPRO011009] (2); Serine/threonine-protein kinase, active site [IPRO08271] (2); Protein kinase, ATP binding site [IPRO17441] (2); Concavulin A-like lectin glucanase domain [IPRO13320] (1); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPRO01245] (1); Serine/threonine/tyrosine-specific protein kinase, catalytic domain [IPRO02290] (1); Serine-threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (1)	scaffold_2_mRNA_4245.1	C_unshiu_00002_mRNA_206.1	-
GF0020722	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_4218.1	C_unshiu_00153_mRNA_13.1	-
GF0020721	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_421.1	C_unshiu_00526_mRNA_4.1	-
GF0020719	1	1	0	Nuclease S1 (2)	hydrolase activity, acting on ester bonds [GO:0016788 molecular_function] (2); endonuclease activity [GO:0004519 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2); DNA catabolic process [GO:0006308 biological_process] (2)	Phospholipase C/PI nuclease domain [IPRO08947] (2); S1/PI nuclease [IPRO03134] (2)	scaffold_2_mRNA_4203.1	C_unshiu_00153_mRNA_24.1	-
GF0020718	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_420.1	C_unshiu_00526_mRNA_2.1	-
GF0020717	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_419.1	C_unshiu_00526_mRNA_1.1	-

ID	Num. in <i>C. celerans</i>	Num. in <i>C. acicola</i>	Num. in <i>P. putida</i>	Note	GO	InterPro	Members in <i>C. celerans</i>	Members in <i>C. acicola</i>	Members in <i>P. putida</i>
GF0020716	1	1	1	0 F-box protein SKIP27 (2)	protein binding [GO:0005515 molecular_function] (2)	F-box domain [IPRO01810] (2)	scaffold_2_mRNA_4185.1	C_unshiu_00153_mRNA_41.1	-
GF0020715	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_4178.1	C_unshiu_00153_mRNA_45.1	-
GF0020714	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_416.1	C_unshiu_00696_mRNA_3.1	-
GF0020713	1	1	1	0 B-box type zinc finger protein (2)	intracellular [GO:0005522 cellular_component] (2); zinc ion binding [GO:0008270 molecular_function] (2)	B-box-type zinc finger [IPRO00315] (2)	scaffold_2_mRNA_4157.1	C_unshiu_00070_mRNA_51.2	-
GF0020712	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_412.1	C_unshiu_01377_mRNA_3.1	-
GF0020711	1	1	1	0 Ubiquitin family protein (1); Polyubiquitin (1)	protein binding [GO:0005515 molecular_function] (2)	Ubiquitin-related domain [IPRO22071] (2); Ubiquitin [IPRO19861] (2); Ubiquitin conserved site [IPRO19954] (2); Ubiquitin domain [IPRO00626] (2)	scaffold_2_mRNA_4112.1	C_unshiu_00027_mRNA_4.1	-
GF0020710	1	1	1	0 Thiazole biosynthetic enzyme (2)	thiamine biosynthetic process [GO:0009228 biological_process] (2); oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); response to stress [GO:0006950 biological_process] (2)	Thiamine thiazole synthase [IPRO27495] (2); Thiazole biosynthetic enzyme Thi4 family [IPRO02922] (2); FAD/NAD(P)-binding domain [IPRO23755] (2)	scaffold_2_mRNA_4109.1	C_unshiu_00027_mRNA_7.1	-
GF0020709	1	1	1	0 Probable dolichyl-diphosphoglycosyltransferase subunit 3B (1); Probable dolichyl-diphosphoglycosyltransferase subunit 3A (1)		Oligosaccharyl transferase complex, subunit OST3/OST6 [IPRO21149] (2)	scaffold_2_mRNA_4107.1	C_unshiu_00027_mRNA_9.1	-
GF0020708	1	1	1	0 Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPRO12337] (1)	scaffold_2_mRNA_410.1	C_unshiu_01377_mRNA_2.1	-
GF0020706	1	1	1	0 Tobacco virus multiplication 1 (2)		Domain of unknown function DUF1084 [IPRO09457] (2)	scaffold_2_mRNA_4088.1	C_unshiu_00027_mRNA_30.1	-
GF0020702	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_406.1	C_unshiu_01196_mRNA_2.1	-
GF0020701	1	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:0006468 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2)	Protein kinase domain [IPRO00719] (2); NAF domain [IPRO04041] (2); NAF/BSL domain [IPRO1451] (2); Protein kinase-like domain [IPRO11009] (2); Protein kinase, ATP binding site [IPRO17441] (2); Serine/threonine-protein kinase, active site [IPRO0271] (2); KA1 domain/Sp2, C-terminal [IPRO28375] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPRO12290] (1)	scaffold_2_mRNA_4053.3	C_unshiu_00027_mRNA_66.3	-
GF0020699	1	1	1	0 Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPRO32675] (1)	scaffold_2_mRNA_4018.1	C_unshiu_00091_mRNA_52.1	-
GF0020696	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_400.1	C_unshiu_00246_mRNA_2.1	-
GF0020695	1	1	1	0 Putative oxidoreductase GLYR1 (2)	3-hydroxyisobutyrate dehydrogenase activity [GO:0008442 molecular_function] (2); NAD binding [GO:0051287 molecular_function] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); phosphogluconate dehydrogenase (decarboxylating) activity [GO:0004616 molecular_function] (2)	3-hydroxyisobutyrate dehydrogenase-related, conserved site [IPRO02204] (2); 3-hydroxyisobutyrate dehydrogenase [IPRO1548] (2); NAD(P)-binding domain [IPRO1640] (2); 6-phosphogluconate dehydrogenase, NADP-binding [IPRO06115] (2); 3-hydroxyisobutyrate dehydrogenase, NAD-binding domain [IPRO29154] (2); 6-phosphogluconate dehydrogenase C-terminal domain-like [IPRO08927] (2); 6-phosphogluconate dehydrogenase, domain 2 [IPRO13328] (2)	scaffold_2_mRNA_3993.1	C_unshiu_00091_mRNA_25.1	-
GF0020694	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_3985.1	C_unshiu_00091_mRNA_17.1	-
GF0020693	1	1	1	0 FAD-binding Berberine family protein (2)	oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); flavin adenine dinucleotide binding [GO:0050660 molecular_function] (2); catalytic activity [GO:0003824 molecular_function] (2); oxidoreductase activity, acting on CH-OH group of donors [GO:0016614 molecular_function] (2)	FAD-binding, type 2, subdomain 1 [IPRO16167] (2); CO-aldohydrogenase flavoprotein-like, FAD-binding, subdomain 2 [IPRO16169] (2); FAD linked oxidase, N-terminal [IPRO06094] (2); FAD-binding type 2 [IPRO16166] (2); Berberine/berberine-like [IPRO12951] (2)	scaffold_2_mRNA_3968.1	C_unshiu_00143_mRNA_8.1	-
GF0020692	1	1	1	0 Toprim domain-containing protein 0 isoform 1 (1); Toprim domain-containing protein (1)	ATP binding [GO:0005524 molecular_function] (2); DNA helicase activity [GO:0003678 molecular_function] (2); DNA replication [GO:0006269 biological_process] (2); 5' to 3' DNA helicase activity [GO:0043139 molecular_function] (1); single-stranded DNA binding [GO:0003697 molecular_function] (1)	DNA helicase, DnaB-like, C-terminal [IPRO07694] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); Toprim domain [IPRO06171] (1); Archaeal primase, DnaG/twinkle, TOPRIM domain [IPRO34154] (1); TOPRIM domain [IPRO06171] (1); Twinkle-like protein [IPRO27032] (1)	scaffold_2_mRNA_3961.1	C_unshiu_00143_mRNA_12.1	-
GF0020691	1	1	1	0 Receptor-like serine/threonine-protein kinase ALK2 (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)	Leucine-rich repeat [IPRO01611] (2); Protein kinase-like domain [IPRO11009] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Protein kinase domain [IPRO00719] (2); Serine/threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (1); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPRO01245] (1); Concavalin A-like lectin/galactanase domain [IPRO13320] (1)	scaffold_2_mRNA_3959.1	C_unshiu_00143_mRNA_14.1	-
GF0020688	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_395.1	C_unshiu_00246_mRNA_6.1	-
GF0020687	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_3942.1	C_unshiu_00143_mRNA_27.1	-
GF0020686	1	1	1	0 Charged multivesicular body protein 2a (1); Charged multivesicular body protein 2b-4b, putative (1)	vacuolar transport [GO:0007034 biological_process] (2)	Sn7 family [IPRO05024] (2); Zinc finger, LSD1-type [IPRO05735] (1)	scaffold_2_mRNA_3941.1	C_unshiu_00143_mRNA_28.1	-
GF0020685	1	1	1	0 Hypothetical protein (1); Putative retroelement pol polyprotein (1)			scaffold_2_mRNA_3919.1	C_unshiu_00143_mRNA_49.1	-
GF0020684	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_3911.1	C_unshiu_00125_mRNA_60.1	-
GF0020683	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_3903.1	C_unshiu_00125_mRNA_50.1	-
GF0020682	1	1	1	0 Hypothetical protein (1); Monosaccharide transport protein (1)			scaffold_2_mRNA_3882.1	C_unshiu_00125_mRNA_29.1	-
GF0020681	1	1	1	0 ZMW resistance protein N (1); Putative TIR-NBS type R protein 4 (1)	protein binding [GO:0005515 molecular_function] (2); ADP binding [GO:0045311 molecular_function] (2); signal transduction [GO:0007165 biological_process] (2)	Toll/interleukin-1 receptor homology (TIR) domain [IPRO00157] (2); Winged helix-helix DNA-binding domain [IPRO11991] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); NB-ARC [IPRO02182] (2)	scaffold_2_mRNA_3868.1	C_unshiu_02276_mRNA_3.1	-
GF0020680	1	1	1	0 Hypothetical protein (2)	carbohydrate binding [GO:0003026 molecular_function] (1); catalytic activity [GO:0003824 molecular_function] (1); carbohydrate metabolic process [GO:0055975 biological_process] (1)	Galactose mutarotase-like domain [IPRO11013] (1); Galactose mutarotase, N-terminal barrel [IPRO31727] (1)	scaffold_2_mRNA_3867.1	C_unshiu_02276_mRNA_4.1	-
GF0020679	1	1	1	0 Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPRO12337] (2)	scaffold_2_mRNA_3865.1	C_unshiu_02276_mRNA_5.1	-
GF0020678	1	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 [IPRO02100] (2)	scaffold_2_mRNA_3859.1	C_unshiu_00185_mRNA_13.1	-
GF0020677	1	1	1	0 Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPRO32675] (1)	scaffold_2_mRNA_3857.1	C_unshiu_00185_mRNA_14.1	-
GF0020676	1	1	1	0 Hypothetical protein (2)		Domain of unknown function DUF239 [IPRO04314] (1); Neprosin [IPRO04314] (1)	scaffold_2_mRNA_3853.1	C_unshiu_00185_mRNA_18.1	-
GF0020675	1	1	1	0 Hypothetical protein (2)		Ribosomal protein S25 [IPRO04977] (2)	scaffold_2_mRNA_385.1	C_unshiu_00246_mRNA_16.1	-
GF0020674	1	1	1	0 14 kDa zinc-binding protein (2)	catalytic activity [GO:0003824 molecular_function] (2)	HTT-like domain [IPRO1146] (2); Histidine triad (HT) protein [IPRO01310] (2); Histidine triad, conserved site [IPRO19808] (2)	scaffold_2_mRNA_3843.1	C_unshiu_00185_mRNA_29.1	-
GF0020673	1	1	1	0 Vericillin wilt resistance-like protein (2)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Leucine-rich repeat, typical subtype [IPRO03591] (2); Leucine-rich repeat [IPRO01611] (2)	scaffold_2_mRNA_3841.1	C_unshiu_00185_mRNA_31.1	-
GF0020672	1	1	1	0 Receptor like protein 33 (2)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat, typical subtype [IPRO03591] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Leucine-rich repeat [IPRO01611] (2)	scaffold_2_mRNA_3836.1	C_unshiu_00185_mRNA_35.1	-
GF0020671	1	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 [IPRO12337] (2); Ribonuclease H domain [IPRO02156] (2)	scaffold_2_mRNA_3834.1	C_unshiu_02643_mRNA_3.1	-
GF0020670	1	1	1	0 Monosaccharide transport protein (2)			scaffold_2_mRNA_3832.1	C_unshiu_00185_mRNA_39.1	-
GF0020668	1	1	1	0 Phospholipase, patatin family (2)	metabolic process [GO:0008152 biological_process] (2); lipid metabolic process [GO:0006629 biological_process] (2)	Acyl transferase/acyl hydrolase/lysophospholipase [IPRO16035] (2); Patatin-like phospholipase domain [IPRO02641] (1); Patatin/Phospholipase A2-related [IPRO02641] (1)	scaffold_2_mRNA_3826.1	C_unshiu_00185_mRNA_45.1	-
GF0020667	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_3824.1	C_unshiu_00185_mRNA_46.1	-
GF0020666	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_3821.1	C_unshiu_00185_mRNA_47.1	-
GF0020665	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_3822.1	C_unshiu_00185_mRNA_48.1	-

ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF0020664	1	1	1	0 Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2)	Ankyrin repeat [IPRO02110] (2); PGG domain [IPRO36961] (2); Ankyrin repeat-containing domain [IPRO20683] (2)	scaffold_2_mRNA_3821.1	C_umshiu_00185_mRNA_49.1	-
GF0020663	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_3819.1	C_umshiu_00185_mRNA_51.1	-
GF0020662	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_3813.1	C_umshiu_00073_mRNA_65.1	-
GF0020660	1	1	1	0 Urease accessory protein D (2)	nickel cation binding [GO:0016151 molecular_function] (2); nitrogen compound metabolic process [GO:0006807 biological_process] (2)	Urease accessory protein UrdD [IPRO02669] (2)	scaffold_2_mRNA_3805.1	C_umshiu_00073_mRNA_57.1	-
GF0020659	1	1	1	0 Putative 54S ribosomal protein L12, mitochondrial-like (2)	intracellular [GO:0005622 cellular_component] (2); translation [GO:0006412 biological_process] (2); ribosome [GO:0005840 cellular_component] (2)	Ribosomal protein L7/L12 [IPRO00206] (2); Ribosomal protein L7/L12, C-terminal/adaptor protein Cps5-like [IPRO14719] (2); Ribosomal protein L7/L12, C-terminal [IPRO13823] (2)	scaffold_2_mRNA_3804.1	C_umshiu_00073_mRNA_56.1	-
GF0020658	1	1	1	0 Poly(A) polymerase 1 isoform 1 (2)	nucleotidyltransferase activity [GO:0016779 molecular_function] (2); RNA 3'-end processing [GO:0031123 biological_process] (2); nucleus [GO:0005634 cellular_component] (2); RNA binding [GO:0003723 molecular_function] (2); polynucleotide adenylyltransferase activity [GO:0004652 molecular_function] (2); RNA polyadenylation [GO:0004831 biological_process] (2)	Poly(A) polymerase, RNA-binding domain [IPRO07010] (2); Polymerase, nucleotidyl transferase domain [IPRO02934] (2); Poly(A) polymerase, central domain [IPRO07012] (2); Poly(A) polymerase [IPRO14992] (2); Nucleotidyltransferase, class I, C-terminal-like [IPRO11068] (2)	scaffold_2_mRNA_3801.1	C_umshiu_00073_mRNA_53.1	-
GF0020657	1	1	1	0 Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPRO12373] (1)	scaffold_2_mRNA_3762.1	C_umshiu_00073_mRNA_13.1	-
GF0020656	1	1	1	0 LOB domain-containing protein 6 (2)		Lateral organ boundaries, LOB [IPRO04883] (2)	scaffold_2_mRNA_3731.1	C_umshiu_00055_mRNA_11.1	-
GF0020655	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_373.1	C_umshiu_00246_mRNA_28.1	-
GF0020654	1	1	1	0 Hypothetical protein (2)	catalytic activity [GO:0003824 molecular_function] (2); carbohydrate metabolic process [GO:0005975 biological_process] (2); hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular_function] (2)	Glycoside hydrolase superfamily [IPRO17833] (2); Aldolase-type TIM barrel [IPRO13785] (2); Glycoside hydrolase, family 27 [IPRO02241] (2); Glycoside hydrolase family 27/36, conserved site [IPRO00111] (1)	scaffold_2_mRNA_3721.1	C_umshiu_00022_mRNA_80.1	-
GF0020653	1	1	1	0 WD repeat-containing protein 26 (2)	protein binding [GO:0005515 molecular_function] (2)	WD40-repeat-containing domain [IPRO17986] (2); WD40 repeat [IPRO01680] (2); WD40 repeat, conserved site [IPRO19775] (2); WD40/YVTN repeat-like-containing domain [IPRO15943] (2); G-protein beta WD-40 repeat [IPRO20472] (2); C-terminal LisH motif [IPRO06595] (2); LIS1 homology motif [IPRO06594] (2); Six-bladed beta-propeller, TolB-like [IPRO11042] (1)	scaffold_2_mRNA_3720.2	C_umshiu_00022_mRNA_79.1	-
GF0020652	1	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 [IPRO01878] (2); Ribonuclease H-like domain [IPRO12337] (1)	scaffold_2_mRNA_372.1	C_umshiu_00246_mRNA_29.1	-
GF0020651	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_3702.1	C_umshiu_00022_mRNA_61.1	-
GF0020650	1	1	1	0 Hypothetical protein (2)		Rossmann-like alpha/beta/alpha sandwich fold [IPRO14729] (2)	scaffold_2_mRNA_3690.1	C_umshiu_00022_mRNA_49.1	-
GF0020649	1	1	1	0 Hypothetical protein (2)		Gag-polypeptide of LTR copia-type [IPRO29472] (1)	scaffold_2_mRNA_369.1	C_umshiu_00836_mRNA_6.1	-
GF0020648	1	1	1	0 Kinase superfamily protein (2)	polysaccharide binding [GO:0030247 molecular_function] (2)	Wall-associated receptor kinase, galacturonin-binding domain [IPRO25277] (2); Wall-associated receptor kinase, C-terminal [IPRO32872] (2)	scaffold_2_mRNA_3668.1	C_umshiu_00022_mRNA_27.1	-
GF0020647	1	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:0004722 molecular_function] (2); regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); protein binding [GO:0005515 molecular_function] (2); nucleus [GO:0005634 cellular_component] (2)	Protein phosphatase 2C family [IPRO15655] (2); SH-2-type phosphatase domain [IPRO01932] (2)	scaffold_2_mRNA_3664.1	C_umshiu_00022_mRNA_21.1	-
GF0020645	1	1	1	0 Auxin-responsive protein IAA12 (2)	AUX/IAA protein [GO:0003311] (2); PB1 domain [IPRO00270] (2); AUX/IAA domain [IPRO33389] (1)	AUX/IAA protein [IPRO03311] (2); PB1 domain [IPRO00270] (2); AUX/IAA domain [IPRO33389] (1)	scaffold_2_mRNA_3648.1	C_umshiu_00022_mRNA_4.1	-
GF0020639	1	1	1	0 RING-U-box superfamily protein, putative isoform 4 (1); Hypothetical protein (1)	polysaccharide binding [GO:0030247 molecular_function] (1)	Wall-associated receptor kinase, galacturonin-binding domain [IPRO25277] (1)	scaffold_2_mRNA_3631.1	C_umshiu_00965_mRNA_8.1	-
GF0020638	1	1	1	0 Hypothetical protein (2)		Zinc knuckle CXC4-4HX4C [IPRO25356] (2)	scaffold_2_mRNA_362.1	C_umshiu_00672_mRNA_7.1	-
GF0020636	1	1	1	0 Hypothetical protein (2)		Zinc finger, RING/YFVE/PHD-type [IPRO13083] (2); Zinc finger, RING-type [IPRO18411] (2)	scaffold_2_mRNA_361.1	C_umshiu_00672_mRNA_6.1	-
GF0020634	1	1	1	0 E3 ubiquitin-protein ligase RHA2A (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, ATP binding site [IPRO17441] (2); Protein kinase domain [IPRO00719] (2); Protein kinase-like domain [IPRO11009] (2); Serine/threonine dual specificity protein kinase, catalytic domain [IPRO02290] (1)	scaffold_2_mRNA_3586.1	C_umshiu_00064_mRNA_58.1	-
GF0020633	1	1	1	0 Hypothetical protein (2)	metal ion binding [GO:0046872 molecular_function] (2); metal ion transport [GO:0030000 biological_process] (2)	Heavy metal-associated domain, HMA [IPRO06121] (2)	scaffold_2_mRNA_3582.1	C_umshiu_00064_mRNA_54.1	-
GF0020632	1	1	1	0 Farnesylated protein 2 (2)		SANT/Myb domain [IPRO1005] (2); Multicopper oxidase, type 1 [IPRO11707] (2); Multicopper oxidase, type 1 [IPRO01117] (2); Myb-like domain [IPRO17877] (2); Multicopper oxidase, type 2 [IPRO11706] (2); Cuprodoxin domain [IPRO08972] (2); Homodomain-like [IPRO09057] (1); Homeobox domain-like [IPRO09057] (1)	scaffold_2_mRNA_3551.1	C_umshiu_00064_mRNA_19.1	-
GF0020631	1	1	1	0 Bilirubin oxidase (2)	oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); copper ion binding [GO:0005507 molecular_function] (2); DNA binding [GO:0003677 molecular_function] (2)	Cytochrome P450 [IPRO01128] (2)	scaffold_2_mRNA_3548.1	C_umshiu_00064_mRNA_16.1	-
GF0020630	1	1	1	0 Hypothetical protein (2)	transporter activity [GO:0005215 molecular_function] (2); transmembrane transport [GO:0055085 biological_process] (2); integral component of membrane [GO:0016021 cellular_component] (2); substrate-specific transmembrane transporter activity [GO:0022891 molecular_function] (2); membrane [GO:0016020 cellular_component] (2); transmembrane transporter activity [GO:0022857 molecular_function] (2)	Sugar/finoxid transporter [IPRO03663] (2); Major facilitator, sugar transporter-like [IPRO05828] (2); Major facilitator superfamily domain [IPRO20846] (2); Sugar transporter, conserved site [IPRO05829] (2)	scaffold_2_mRNA_3545.1	C_umshiu_00111_mRNA_44.1	-
GF0020628	1	1	1	0 Cytokinin riboside 5'-monophosphate phosphoribosyltransferase (2)			scaffold_2_mRNA_353.1	C_umshiu_00111_mRNA_43.1	-
GF0020626	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_352.1	C_umshiu_00111_mRNA_41.1	-
GF0020625	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_3513.1	C_umshiu_00017_mRNA_98.1	-
GF0020624	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_3512.1	C_umshiu_00017_mRNA_97.1	-
GF0020623	1	1	1	0 Protein BCCIP homolog (2)		BCP1 family [IPRO25602] (2)	scaffold_2_mRNA_3503.1	C_umshiu_00017_mRNA_88.1	-
GF0020622	1	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)	Cytochrome P450 [IPRO01128] (2)	scaffold_2_mRNA_3488.1	C_umshiu_00017_mRNA_75.1	-
GF0020621	1	1	1	0 Hypothetical protein (2)	DNA binding [GO:0003677 molecular_function] (1)	Myb-like domain [IPRO17877] (2); Homeodomain-like [IPRO09057] (1)	scaffold_2_mRNA_3483.1	C_umshiu_00017_mRNA_70.1	-
GF0020620	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_3480.1	C_umshiu_00017_mRNA_68.1	-
GF0020619	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_348.1	C_umshiu_01893_mRNA_14.1	-
GF0020618	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_346.1	C_umshiu_01893_mRNA_12.1	-
GF0020617	1	1	1	0 Hypothetical protein (2)		Cullin protein, neddylation domain [IPRO19559] (2); Winged helix-stem-helix DNA-binding domain [IPRO11991] (2)	scaffold_2_mRNA_3459.1	C_umshiu_00017_mRNA_47.1	-
GF0020616	1	1	1	0 Protein FAR1-RELATED SEQUENCE 0 (1); Transposon protein, putative, unclassified, expressed (1)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); zinc ion binding [GO:0008270 molecular_function] (1)	MULE transposase domain [IPRO18289] (2); FHY3/FAR1 family [IPRO31052] (2); Zinc finger, PMZ-type [IPRO006564] (1); Zinc finger, SWIM-type [IPRO07527] (1)	scaffold_2_mRNA_3457.1	C_umshiu_01323_mRNA_1.1	-
GF0020615	1	1	1	0 1-aminocyclopropane-1-carboxylate oxidase homolog 12 (1); 1-aminocyclopropane-1-carboxylate oxidase like 12 (1)	oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (2)	Isopenicillin N synthase-like [IPRO27443] (2); Non-haem desxygenase N-terminal domain [IPRO09923] (2); Osooglutarate/iron-dependent desxygenase [IPRO05123] (2)	scaffold_2_mRNA_3454.1	C_umshiu_00017_mRNA_46.1	-
GF0020614	1	1	1	0 Hypothetical protein (2)			scaffold_2_mRNA_344.1	C_umshiu_01893_mRNA_10.1	-









ID	Num. in <i>C. caryophyllae</i>	Num. in <i>C. axinin</i>	Num. in <i>P. trifoliate</i>	Note	GO	InterPro	Members in <i>C. caryophyllae</i>	Members in <i>C. axinin</i>	Members in <i>P. trifoliate</i>
GF0020340	1	1	1	0	Hypothetical protein (2)		scaffold_2_mRNA_2297.1	C.unshii_00074_mRNA_43.1	-
GF0020339	1	1	1	0	Hypothetical protein (2)		scaffold_2_mRNA_2296.1	C.unshii_01585_mRNA_1.1	-
GF0020338	1	1	1	0	Hypothetical protein (2)		scaffold_2_mRNA_2295.1	C.unshii_01585_mRNA_2.1	-
GF0020337	1	1	1	0	Hypothetical protein (2)		scaffold_2_mRNA_2290.1	C.unshii_01585_mRNA_5.1	-
GF0020336	1	1	1	0	Hypothetical protein (2)		scaffold_2_mRNA_228.1	C.unshii_02990_mRNA_2.1	-
GF0020355	1	1	1	0	Retransposon protein, putative, Ty1-copia subclass (2)				
GF0020354	1	1	1	0	Hypothetical protein (2)				
GF0020353	1	1	1	0	Hypothetical protein (2)				
GF0020351	1	1	1	0	Hypothetical protein (2)				
GF0020350	1	1	1	0	Hypothetical protein (2)				
GF0020349	1	1	1	0	Cytokinin riboside 5'-monophosphate phosphoribidylase (2)				
GF0020348	1	1	1	0	Hypothetical protein (2)				
GF0020347	1	1	1	0	Hypothetical protein (2)				
GF0020346	1	1	1	0	Hypothetical protein (2)				
GF0020345	1	1	1	0	Hypothetical protein (2)				
GF0020344	1	1	1	0	Hypothetical protein (2)				
GF0020343	1	1	1	0	Hypothetical protein (2)				
GF0020342	1	1	1	0	Hypothetical protein (2)				
GF0020341	1	1	1	0	Hypothetical protein (2)				
GF0020337	1	1	1	0	Hypothetical protein (2)				
GF0020336	1	1	1	0	Hypothetical protein (2)				
GF0020335	1	1	1	0	O-methyltransferase (1); Hypothetical protein (1)				
GF0020334	1	1	1	0	Hypothetical protein (2)				
GF0020333	1	1	1	0	Hypothetical protein (2)				
GF0020331	1	1	1	0	Hypothetical protein (2)				
GF0020330	1	1	1	0	BED zinc finger, HAT family dimerization domain isoform 1 (2)				
GF0020329	1	1	1	0	Hypothetical protein (2)				
GF0020328	1	1	1	0	Cytokinin riboside 5'-monophosphate phosphoribidylase (2)				
GF0020326	1	1	1	0	Contains similarity to reverse transcriptase related (2)				
GF0020325	1	1	1	0	cDNA clone:002-110-H12, full insert sequence (2)				
GF0020324	1	1	1	0	Hypothetical protein (2)				
GF0020323	1	1	1	0	Hypothetical protein (2)				
GF0020322	1	1	1	0	Hypothetical protein (2)				
GF0020320	1	1	1	0	Hypothetical protein (2)				
GF0020319	1	1	1	0	LRR receptor-like kinase family protein (1); Hypothetical protein (1)				
GF0020318	1	1	1	0	Hypothetical protein (2)				
GF0020317	1	1	1	0	Hypothetical protein (2)				
GF0020316	1	1	1	0	Hypothetical protein (2)				
GF0020315	1	1	1	0	Hypothetical protein (2)				
GF0020314	1	1	1	0	Hypothetical protein (2)				
GF0020312	1	1	1	0	Hypothetical protein (2)				
GF0020311	1	1	1	0	Putative non-UTR reverse transcriptase (1); Putative polypeptide (1)				
GF0020310	1	1	1	0	Hypothetical protein (2)				
GF0020309	1	1	1	0	Hypothetical protein (2)				
GF0020308	1	1	1	0	Hypothetical protein (2)				
GF0020307	1	1	1	0	Hypothetical protein (2)				
GF0020306	1	1	1	0	Hypothetical protein (2)				
GF0020305	1	1	1	0	Hypothetical protein (2)				
GF0020302	1	1	1	0	Hypothetical protein (2)				
GF0020301	1	1	1	0	Hypothetical protein (2)				
GF0020300	1	1	1	0	Hypothetical protein (2)				
GF0020299	1	1	1	0	Hypothetical protein (2)				
GF0020298	1	1	1	0	Hypothetical protein (2)				
GF0020297	1	1	1	0	Hypothetical protein (2)				
GF0020296	1	1	1	0	Hypothetical protein (2)				
GF0020295	1	1	1	0	Transmembrane E3 ubiquitin-protein ligase 1 (1); Hypothetical protein (1)				
GF0020292	1	1	1	0	Hypothetical protein (2)				
GF0020291	1	1	1	0	Hypothetical protein (2)				
GF0020290	1	1	1	0	Hypothetical protein (2)				
GF0020289	1	1	1	0	Hypothetical protein (2)				
GF0020288	1	1	1	0	Hypothetical protein (2)				
GF0020287	1	1	1	0	Hypothetical protein (2)				
GF0020286	1	1	1	0	Hypothetical protein (2)				
GF0020285	1	1	1	0	Retransposon protein, putative, Ty1-copia subclass (2)				
GF0020284	1	1	1	0	Nicotianamine aminotransferase A (2)				
GF0020283	1	1	1	0	Hypothetical protein (1); Ribonuclease H protein (1)				
GF0020282	1	1	1	0	Hypothetical protein (2)				
GF0020281	1	1	1	0	Nicotianamine aminotransferase A (1); Tyrosine transaminase (1)				



ID	Num. in <i>C. caryotactis</i>	Num. in <i>C. uzbekii</i>	Num. in <i>P. trifoliate</i>	Note	GO	InterPro	Members in <i>C. caryotactis</i>	Members in <i>C. uzbekii</i>	Members in <i>P. trifoliate</i>
GF0020196	1	1	0	Hypothetical protein (2)	ATP binding [GO:0005524 molecular_function] (2); nucleotide binding [GO:0000166 molecular_function] (2); RNA binding [GO:0003723 molecular_function] (2); RNA aminoacylation for protein translation [GO:0006418 biological_process] (2); cytoplasm [GO:0005737 cellular_component] (2); tyrosyl-tRNA aminoacylation [GO:0006437 biological_process] (2); aminocyclase activity [GO:0004812 molecular_function] (2); tyrosine-RNA ligase activity [GO:0004831 molecular_function] (2)	Tyrosine-tRNA ligase, bacterial-type, type 1 [IPRO24107] (2); Rossmann-like alpha/beta/sandwich fold [IPRO14729] (2); Tyrosine-tRNA ligase [IPRO02307] (2); Aminocyclase activity, class Ic [IPRO02305] (2); RNA-binding S4 domain [IPRO02942] (2); aminocyclase synthetase, class I, conserved site [IPRO01412] (2); Tyrosine-tRNA ligase, bacterial-type [IPRO24088] (2)	scaffold_2_mRNA_1498.1	C_uusniu_00957_mRNA_10.1	-
GF0020195	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1489.1	C_uusniu_00999_mRNA_2.1	-
GF0020193	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_148.1	C_uusniu_00174_mRNA_32.1	-
GF0020192	1	1	0	Pentatricopeptide repeat-containing protein, mitochondrial (2)	protein binding [GO:0005515 molecular_function] (1)	Pentatricopeptide repeat [IPRO02885] (2); Tetra-tricopeptide-like helical domain [IPRO11990] (1)	scaffold_2_mRNA_1479.1	C_uusniu_00999_mRNA_10.1	-
GF0020191	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 [IPRO01878] (2)	scaffold_2_mRNA_147.1	C_uusniu_00174_mRNA_31.1	-
GF0020190	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1460.1	C_uusniu_00016_mRNA_6.1	-
GF0020186	1	1	0	Phospholipase A1 (2)	lipid metabolic process [GO:0006629 biological_process] (2); phosphatidylcholine 1-acylhydrolase activity [GO:0008970 molecular_function] (1)	Fungal lipase-like domain [IPRO02921] (2); Alpha/Beta hydrolase fold [IPRO29058] (2); Phospholipase A1-II [IPRO33556] (1)	scaffold_2_mRNA_1451.1	C_uusniu_00184_mRNA_16.1	-
GF0020185	1	1	0	Hypothetical protein (2)		Reverse transcriptase domain [IPRO00477] (2)	scaffold_2_mRNA_145.1	C_uusniu_00174_mRNA_28.1	-
GF0020184	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPRO12337] (1)	scaffold_2_mRNA_1448.1	C_uusniu_00184_mRNA_18.1	-
GF0020182	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_144.1	C_uusniu_00174_mRNA_27.1	-
GF0020181	1	1	0	Cytokinin riboside 5'-monophosphate phosphoribosyltransferase (2)	Cytokinin riboside 5'-monophosphate phosphoribosyltransferase LOG [IPRO05269] (2)	LOG family [IPRO31100] (2); Cytokinin riboside 5'-monophosphate phosphoribosyltransferase LOG [IPRO05269] (2)	scaffold_2_mRNA_143.1	C_uusniu_00174_mRNA_25.1	-
GF0020180	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_142.1	C_uusniu_00174_mRNA_24.1	-
GF0020179	1	1	0	Hypothetical protein (2)	drug transmembrane transport [GO:0006855 biological_process] (2); antiporter activity [GO:0015297 molecular_function] (2); drug transmembrane transporter activity [GO:015238 molecular_function] (2); membrane [GO:0016020 cellular_component] (2); transmembrane transport [GO:0055082 biological_process] (2)	Multi antimicrobial extrusion protein [IPRO25258] (2)	scaffold_2_mRNA_1413.1	C_uusniu_00184_mRNA_38.1	-
GF0020178	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1411.1	C_uusniu_00176_mRNA_19.1	-
GF0020177	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_141.1	C_uusniu_00174_mRNA_14.1	-
GF0020176	1	1	0	Verticillium wilt disease resistance protein (1); Verticillium wilt resistance-like protein (1)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat [IPRO01611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPRO13210] (2); Leucine-rich repeat domain, L. domain-like [IPRO32675] (2); Leucine-rich repeat, typical subtype [IPRO03591] (2)	scaffold_2_mRNA_1408.1	C_uusniu_00176_mRNA_21.1	-
GF0020175	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1400.1	C_uusniu_00176_mRNA_28.1	-
GF0020174	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_140.1	C_uusniu_01119_mRNA_10.1	-
GF0020173	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1394.1	C_uusniu_00176_mRNA_31.1	-
GF0020172	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1392.1	C_uusniu_00068_mRNA_32.1	-
GF0020171	1	1	0	Phospholipase A1-II 7 (1); Hypothetical protein (1)	phosphatidylcholine 1-acylhydrolase activity [GO:0008970 molecular_function] (1); lipid metabolic process [GO:0006629 biological_process] (1)	Fungal lipase-like domain [IPRO02921] (1); Alpha/Beta hydrolase fold [IPRO29058] (1); Phospholipase A1-II [IPRO33556] (1)	scaffold_2_mRNA_1387.1	C_uusniu_00176_mRNA_34.1	-
GF0020170	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1378.1	C_uusniu_00859_mRNA_2.1	-
GF0020169	1	1	0	Carbohydrate-binding X8 domain protein (2)		X8 domain [IPRO12946] (2)	scaffold_2_mRNA_1371.1	C_uusniu_00176_mRNA_47.1	-
GF0020167	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1345.1	C_uusniu_00107_mRNA_9.1	-
GF0020166	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4283 [IPRO25558] (2)	scaffold_2_mRNA_1333.1	C_uusniu_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)	HSP40-like peptidyl-binding [IPRO08971] (2); Chaperone DnaJ, C-terminal [IPRO02939] (2)	scaffold_2_mRNA_1323.1	C_uusniu_00402_mRNA_11.1	-
GF0020164	1	1	0	Hypothetical protein (2)		WHM2 domain [IPRO28941] (2); WHM4 domain [IPRO28942] (1); WHM3 domain [IPRO28935] (1)	scaffold_2_mRNA_1322.1	C_uusniu_00403_mRNA_10.1	-
GF0020163	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1317.1	C_uusniu_00403_mRNA_4.1	-
GF0020162	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_130.1	C_uusniu_00799_mRNA_12.1	-
GF0020161	1	1	0	Glycerol-3-phosphate dehydrogenase [NAD+] GPDHC1, cytosolic (2)	oxidoreductase activity, acting on the C-H-OH group of donors, NAD or NADP as acceptor [GO:0016616 molecular_function] (2); NAD binding [GO:0051287 molecular_function] (2); oxidation-reduction process [GO:0051114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); glycerol-3-phosphate dehydrogenase [NAD+] activity [GO:0004367 molecular_function] (2); glycerol-3-phosphate catabolic process [GO:0046168 biological_process] (2); glycerol-3-phosphate dehydrogenase complex [GO:0090333 cellular_component] (2); protein homodimerization activity [GO:0042803 molecular_function] (2); glycerol-3-phosphate metabolic process [GO:0006072 biological_process] (2); carbohydrate metabolic process [GO:0005975 biological_process] (2)	Glycerol-3-phosphate dehydrogenase, NAD-dependent, N-terminal [IPRO1128] (2); Glycerol-3-phosphate dehydrogenase, NAD-dependent, C-terminal [IPRO06109] (2); NAD(P)-binding domain [IPRO16040] (2); Glycerol-3-phosphate dehydrogenase, NAD-dependent [IPRO06168] (2); 6-phosphogluconate dehydrogenase C-terminal domain-like [IPRO0927] (2); 6-phosphogluconate dehydrogenase, domain 2 [IPRO13328] (2); Glycerol-3-phosphate dehydrogenase, NAD-dependent, eukaryotic [IPRO17751] (2)	scaffold_2_mRNA_1292.1	C_uusniu_00055_mRNA_53.1	-
GF0020160	1	1	0	Hypothetical protein (2)		Sieve element occlusion, N-terminal [IPRO27942] (2)	scaffold_2_mRNA_1287.1	C_uusniu_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 [IPRO12337] (2); Reverse transcriptase zinc-binding domain [IPRO26960] (2); RNA recognition motif domain [IPRO05094] (2); Nucleotide-binding alpha-beta plat domain [IPRO12677] (1)	scaffold_2_mRNA_1282.1	C_uusniu_01160_mRNA_11.1	-
GF0020157	1	1	0	Hypothetical protein (1); Non-LTR retroelement reverse transcriptase-like (1)	nucleic acid binding [GO:0003676 molecular_function] (1)	Reverse transcriptase zinc-binding domain [IPRO26960] (1); Ribonuclease H-like domain [IPRO12337] (1)	scaffold_2_mRNA_1279.1	C_uusniu_01160_mRNA_8.1	-
GF0020156	1	1	0	Hypothetical protein (2)		von Willebrand factor, type A [IPRO02055] (2); Coprin [IPRO10734] (2); Zinc finger, RING-type [IPRO01841] (1); Zinc finger, RINGFYVE/PHD-type [IPRO13083] (1)	scaffold_2_mRNA_1269.1	C_uusniu_00052_mRNA_11.2	-
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)		scaffold_2_mRNA_1243.1	C_uusniu_00049_mRNA_21.1	-
GF0020154	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1242.1	C_uusniu_00049_mRNA_22.1	-
GF0020153	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1242.1	C_uusniu_00049_mRNA_22.1	-
GF0020152	1	1	0	Myb-related protein Myb4 (2)	DNA binding [GO:0003677 molecular_function] (2)	SANT/Myb domain [IPRO01005] (2); Myb domain [IPRO17930] (2); Homeodomain-like [IPRO09057] (1); Homeobox domain-like [IPRO09057] (1)	scaffold_2_mRNA_1232.1	C_uusniu_00049_mRNA_42.1	-
GF0020151	1	1	0	Hypothetical protein (2)		Protein kinase-like domain [IPRO11009] (2); Nuclear transport factor 2, eukaryote [IPRO18222] (2); Protein kinase domain [IPRO0719] (2); Protein kinase, ATP binding site [IPRO17441] (2); NTF2-like domain [IPRO032710] (2); Serine/threonine-protein kinase, active site [IPRO08271] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPRO02290] (1)	scaffold_2_mRNA_123.1	C_uusniu_00799_mRNA_7.1	-
GF0020150	1	1	0	Dual specificity mitogen-activated protein kinase kinase 1 (2)	ATP binding [GO:0005524 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2)		scaffold_2_mRNA_1224.1	C_uusniu_00049_mRNA_51.1	-
GF0020149	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_122.1	C_uusniu_00799_mRNA_6.1	-
GF0020147	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1210.1	C_uusniu_00049_mRNA_66.1	-
GF0020146	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_121.1	C_uusniu_00799_mRNA_5.1	-
GF0020145	1	1	0	Hypothetical protein (2)			scaffold_2_mRNA_1195.1	C_uusniu_00049_mRNA_76.1	-
GF0020144	1	1	0	Glutaredoxin (2)	cell redox homeostasis [GO:0045454 biological_process] (2); electron carrier activity [GO:0009055 molecular_function] (2); protein disulfide oxidoreductase activity [GO:0015035 molecular_function] (2)	Thioredoxin-like fold [IPRO12336] (2); Glutaredoxin, eukaryotic/viral [IPRO11899] (2); Glutaredoxin [IPRO02189] (2); Glutaredoxin active site [IPRO11767] (2); Glutaredoxin subgroup [IPRO14025] (2)	scaffold_2_mRNA_1193.1	C_uusniu_00049_mRNA_78.1	-



ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF002070	1	1	0	Ras-related protein Rab7 (2)	GTP binding [GO:000525 molecular_function] (2); GTPase activity [GO:0003924 molecular_function] (2); signal transduction [GO:0007165 biological_process] (1); intracellular [GO:0005622 cellular_component] (1); intracellular protein transport [GO:0006886 biological_process] (1); nucleocytoplasmic transport [GO:0006913 biological_process] (1); small GTPase mediated signal transduction [GO:0007264 biological_process] (1); membrane [GO:0016020 cellular_component] (1); protein transport [GO:0015031 biological_process] (1)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Small GTPase superfamily [IPR018060] (2); Small GTP-binding protein domain [IPR005225] (2); Small GTPase superfamily, Ras type [IPR020849] (1); Small GTPase superfamily, Rab type [IPR035791] (1); Ran GTPase [IPR020411] (1); Small GTPase superfamily, Rho type [IPR003578] (1)	scaffold_1_mRNA_813.1	C_unshiu_00075_mRNA_45.1	-
GF002069	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_809.1	C_unshiu_00075_mRNA_29.1	-
GF002068	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_805.1	C_unshiu_00075_mRNA_24.1	-
GF002067	1	1	0	Putative xyloglucan glycosyltransferase 5 (2)		Nucleotide-diphospho-sugar transferases [IPR020444] (2)	scaffold_1_mRNA_78.1	C_unshiu_00129_mRNA_26.1	-
GF002066	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_775.1	C_unshiu_00075_mRNA_8.1	-
GF002065	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_767.1	C_unshiu_01122_mRNA_13.1	-
GF002064	1	1	0	Hypothetical protein (2)	magnesium ion binding [GO:0000287 molecular_function] (2); terpene synthase activity [GO:0010333 molecular_function] (2); base 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	-
GF002062	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_764.1	C_unshiu_01122_mRNA_10.1	-
GF002060	1	1	0	General transcription factor IIIH subunit 4 (2)	ATP-dependent DNA helicase activity [GO:0004003 molecular_function] (2); nucleus [GO:0005634 cellular_component] (2); core TFIIH complex [GO:0000949 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	-
GF002059	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_753.1	C_unshiu_00947_mRNA_6.1	-
GF002058	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_748.1	C_unshiu_00947_mRNA_1.1	-
GF002055	1	1	0	CBS domain-containing protein CBSX5 (2)			scaffold_1_mRNA_743.1	C_unshiu_01381_mRNA_3.1	-
GF002054	1	1	0	Hypothetical protein (1); Protein FAR1-RELATED SEQUENCE 5 (1)	nucleic acid binding [GO:0003676 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (2); regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); oxidation-reduction process [GO:005114 biological_process] (1); oxidoreductase activity, acting on paired 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, PMZ-type [IPR006564] (2); Zinc finger, SWIM-type [IPR007527] (2); FYF1/FAR1 family [IPR031072] (2); Zinc finger, CCHC-type [IPR001878] (2); Cytochrome P450 [IPR01128] (1); FAR1 DNA binding domain [IPR004330] (1)	scaffold_1_mRNA_742.1	C_unshiu_00178_mRNA_37.1	-
GF002053	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_741.1	C_unshiu_02595_mRNA_1.1	-
GF002052	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	-
GF002051	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012377] (2)	scaffold_1_mRNA_734.1	C_unshiu_00148_mRNA_40.1	-
GF002049	1	1	0	Hypothetical protein (2)	DNA binding [GO:0000677 molecular_function] (2); sequence-specific DNA binding [GO:0043565 molecular_function] (2)	Lambda repressor-like, DNA-binding domain [IPR010982] (2); Cys-C1-type helix-turn-helix domain [IPR001387] (2)	scaffold_1_mRNA_718.1	C_unshiu_00148_mRNA_27.1	-
GF002048	1	1	0	Hypothetical protein (1); DNA mismatch repair protein Msh6-2 (1)	mismatch repair [GO:0006298 biological_process] (2); mismatched DNA binding [GO:00030983 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2)	DNA mismatch repair protein MutS, N-terminal [IPR016151] (2); DNA mismatch repair protein MutS-like, N-terminal [IPR007695] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1); DNA mismatch repair protein MutS, connector domain [IPR007860] (1); DNA mismatch repair protein MutS, core [IPR007696] (1); DNA mismatch repair protein MutS, C-terminal [IPR000432] (1)	scaffold_1_mRNA_716.1	C_unshiu_00148_mRNA_25.1	-
GF002044	1	1	0	Putative sulfate transporter 3.4 (2)	membrane [GO:0016020 cellular_component] (2); secondary active sulfate transmembrane transporter activity [GO:0008271 molecular_function] (2); sulfate transport [GO:0008272 biological_process] (2); integral component of membrane [GO:0016021 cellular_component] (2); transmembrane transport [GO:0055085 biological_process] (2); sulfate transmembrane transporter activity [GO:0015116 molecular_function] (2); sulfate transmembrane transport [GO:1902358 biological_process] (2)	Sulfate transporter 3.4 [IPR030317] (2); SLC26A/SulP transporter [IPR001902] (2); STAS domain [IPR026451] (2); SLC26A/SulP transporter domain [IPR011547] (2); Sulphate anion transporter, conserved site [IPR018045] (2)	scaffold_1_mRNA_711.1	C_unshiu_00242_mRNA_6.1	-
GF002043	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_710.1	C_unshiu_00242_mRNA_4.1	-
GF002042	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_684.1	C_unshiu_00016_mRNA_61.1	-
GF002041	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_683.1	C_unshiu_00016_mRNA_62.1	-
GF002040	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	-
GF002038	1	1	0	Hypothetical protein (1)	DUF2921 family protein (1);	Protein of unknown function DUF2921 [IPR021319] (2)	scaffold_1_mRNA_665.1	C_unshiu_00016_mRNA_81.1	-
GF002037	1	1	0	Hypothetical protein (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 plat domain [IPR012677] (1)	scaffold_1_mRNA_663.1	C_unshiu_00016_mRNA_83.1	-
GF002035	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_632.1	C_unshiu_00039_mRNA_14.1	-
GF002033	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	-
GF002032	1	1	0	NADH-cytochrome b5 reductase (2)	oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:005114 biological_process] (2)	Flavoprotein pyridine nucleotide cytochrome reductase [IPR001709] (2); Riboflavin synthase-like beta-barrel [IPR017938] (2); NADH-cytochrome b5 reductase (CBR) [IPR001834] (2); Oxidoreductase FAD/NAD(P)-binding [IPR01433] (2); Ferredoxin reductase-type FAD-binding domain [IPR017927] (2); Oxidoreductase, FAD-binding domain [IPR008333] (2)	scaffold_1_mRNA_622.1	C_unshiu_00547_mRNA_9.1	-
GF002031	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_6.1	C_unshiu_00144_mRNA_39.1	-
GF002030	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_599.1	C_unshiu_00203_mRNA_39.1	-
GF002029	1	1	0	Putative chaperon P13.9 (2)	unfolded protein binding [GO:0051082 molecular_function] (2); heat shock protein binding [GO:0031072 molecular_function] (2)	Heat shock protein DnaJ, cysteine-rich domain [IPR01305] (2)	scaffold_1_mRNA_593.1	C_unshiu_00203_mRNA_31.1	-
GF002028	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:0005840 cellular_component] (2)	Ribosomal protein L36 [IPR000473] (2)	scaffold_1_mRNA_583.1	C_unshiu_00203_mRNA_21.1	-
GF002027	1	1	0	Hypothetical protein (2)		Protein of unknown function DUF247, plant [IPR004158] (2)	scaffold_1_mRNA_580.1	C_unshiu_00203_mRNA_18.1	-
GF002026	1	1	0	RNA 2'-phosphotransferase isoform 1 (2)	tRNA splicing, via endonucleolytic cleavage and ligation [GO:0006388 biological_process] (2); transfranse activity, transferring phosphorus-containing groups [GO:0016772 molecular_function] (2)	Phosphotransferase KptA/Tpt1 [IPR002745] (2)	scaffold_1_mRNA_573.1	C_unshiu_00203_mRNA_9.1	-
GF002023	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_537.1	C_unshiu_00572_mRNA_2.1	-
GF002022	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_536.1	C_unshiu_00572_mRNA_3.1	-
GF002021	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); Serine-threonine/tyrosine-protein kinase catalytic domain [IPR001245] (1)	scaffold_1_mRNA_535.1	C_unshiu_00572_mRNA_4.1	-
GF002020	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPR032675] (2)	scaffold_1_mRNA_533.1	C_unshiu_00572_mRNA_6.1	-
GF002019	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_532.1	C_unshiu_00572_mRNA_8.1	-
GF002018	1	1	0	Lectin (2)	carbohydrate binding [GO:0030246 molecular_function] (2)	Concanavalin A-like lectin/galactanase domain [IPR013320] (2); Legume lectin domain [IPR01122] (2); Legume lectin [IPR016363] (1); Lectin [IPR016363] (1)	scaffold_1_mRNA_521.1	C_unshiu_00572_mRNA_19.1	-



ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutula</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutula</i>	Members in <i>P. trifoliata</i>
GF0020017	1	1	0	Putative ycd6 (1); Hypothetical protein (1)		Uncharacterised protein family Ycd6 [IPRO09631] (2); Protein of unknown function DUF778 [IPRO08496] (1)	scaffold_1_mRNA_505.1	C_unshiu_00055_mRNA_4.1	-
GF0020016	1	1	0	Calcineurin B-like protein (2)	calcium ion binding [GO:0005509 molecular_function] (2)	EF-hand domain pair [IPRO11992] (2); EF-Hand 1, calcium-binding site [IPRO18247] (2); EF-hand domain [IPRO20248] (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); non-sulfur cluster binding [GO:0051536 molecular_function] (2)	NADH:ubiquinone oxidoreductase-like, 20kDa subunit [IPRO06137] (2)	scaffold_1_mRNA_493.1	C_unshiu_00055_mRNA_17.1	-
GF0020011	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_491.1	C_unshiu_00055_mRNA_19.1	-
GF0020010	1	1	0	DUF1764 domain protein (2)		Protein of unknown function DUF1764, eukaryotic [IPRO13885] (2)	scaffold_1_mRNA_487.1	C_unshiu_00055_mRNA_24.1	-
GF0020006	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_459.1	C_unshiu_00006_mRNA_25.1	-
GF0020005	1	1	0	Poly(A) polymerase 1 isoform 1 (2)	nucleus [GO:0005634 cellular_component] (2); RNA binding [GO:0003723 molecular_function] (2); nucleotidyltransferase activity [GO:0016779 molecular_function] (2); RNA 3'-end processing [GO:0011123 biological_process] (2); RNA polyadenylation [GO:0043631 biological_process] (2); polynucleotide adenyltransferase activity [GO:0004652 molecular_function] (2)	Poly(A) polymerase [IPRO14492] (2); Nucleotidyltransferase, class I, C-terminal-like [IPRO11068] (2); Poly(A) polymerase, RNA-binding domain [IPRO07010] (2); Polymerase, nucleotidyl transferase domain [IPRO02954] (2); Poly(A) polymerase, central domain [IPRO07012] (2)	scaffold_1_mRNA_456.1	C_unshiu_00006_mRNA_28.1	-
GF0020004	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_455.1	C_unshiu_00006_mRNA_29.1	-
GF0020003	1	1	0	Hypothetical protein (2)	rRNA processing [GO:0006364 biological_process] (2); metalloendopeptidase activity [GO:0004222 molecular_function] (2)	Endoribonuclease VbcY [IPRO02036] (2); Metalloprotease catalytic domain, predicted [IPRO23091] (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 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2)	Protein kinase domain [IPRO00719] (2); Leucine-rich repeat, typical subtype [IPRO03591] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Protein kinase-like domain [IPRO11009] (2); Leucine-rich repeat-containing N-terminal-type [IPRO13210] (2); Protein kinase, ATP binding site [IPRO17441] (2); Serine/threonine-protein kinase, active site [IPRO08271] (2); Serine/threonine dual specificity protein kinase, catalytic domain [IPRO02290] (1)	scaffold_1_mRNA_452.1	C_unshiu_00006_mRNA_34.1	-
GF0020001	1	1	0	60S ribosomal protein L36 (2)	ribosome [GO:0005840 cellular_component] (2); structural constituent of ribosome [GO:0003735 molecular_function] (2); intracellular [GO:0005622 cellular_component] (2); translation [GO:0006412 biological_process] (2)	Ribosomal protein L36e [IPRO00509] (2)	scaffold_1_mRNA_439.1	C_unshiu_00006_mRNA_51.1	-
GF0020000	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_433.1	C_unshiu_00006_mRNA_57.1	-
GF0019999	1	1	0	Hypothetical protein (2)	defense response [GO:0006952 biological_process] (1)	NONRESPONDING TO OXYLIPINS 2 [IPRO33252] (1)	scaffold_1_mRNA_426.1	C_unshiu_00006_mRNA_63.1	-
GF0019998	1	1	0	Peptidyl-rRNA hydrolase II (PTH2) family protein (2)	aminoacyl-rRNA hydrolase activity [GO:0004045 molecular_function] (2)	Peptidyl-rRNA hydrolase II domain [IPRO23476] (2); Peptidyl-rRNA hydrolase, PTH2 [IPRO02833] (2)	scaffold_1_mRNA_425.1	C_unshiu_00006_mRNA_64.1	-
GF0019997	1	1	0	SWIM zinc finger protein/ MAP kinase kinase (Mapkkk), putative (1); SWIM zinc finger family protein / mitogen-activated protein kinase kinase kinase-related, putative (1)	zinc ion binding [GO:0008270 molecular_function] (2); protein binding [GO:0005515 molecular_function] (2)	Zinc finger, SWIM-type [IPRO07527] (2); Zinc finger, RING-FYVE/PHD-type [IPRO13083] (2); Zinc finger, RING-type [IPRO1841] (2)	scaffold_1_mRNA_424.1	C_unshiu_00006_mRNA_65.1	-
GF0019996	1	1	0	SCNH hydrolase-type esterase superfamily protein, putative (2)	hydrolase activity, acting on ester bonds [GO:0016788 molecular_function] (2)	SGNH hydrolase-type esterase domain [IPRO13830] (2); GDSL lipase/esterase [IPRO1087] (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 [IPRO00991] (2); Regulator of chromosome condensation, RCC1 [IPRO0408] (2)	scaffold_1_mRNA_422.1	C_unshiu_00006_mRNA_68.1	-
GF0019994	1	1	0	Nuclear pore complex protein Nup85 (2)		Nucleoporin Nup85-like [IPRO11502] (2)	scaffold_1_mRNA_421.1	C_unshiu_00006_mRNA_69.1	-
GF0019993	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_42.1	C_unshiu_00005_mRNA_153.1	-
GF0019992	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2)	Ankyrin repeat-containing domain [IPRO20863] (2); Ankyrin repeat [IPRO02110] (2); PGG domain [IPRO26961] (1)	scaffold_1_mRNA_408.1	C_unshiu_00006_mRNA_86.1	-
GF0019991	1	1	0	Hypothetical protein (2)		Ankyrin repeat-containing domain [IPRO20863] (2)	scaffold_1_mRNA_405.1	C_unshiu_00006_mRNA_88.1	-
GF0019989	1	1	0	Hypothetical protein (2)	tocopherol cyclase activity [GO:0009976 molecular_function] (2)	Tocopherol cyclase [IPRO25893] (2)	scaffold_1_mRNA_395.1	C_unshiu_00006_mRNA_97.1	-
GF0019988	1	1	0	Putative hydrolase YtaP (2)	proteolysis [GO:0006508 biological_process] (1); serine-type peptidase activity [GO:0008236 molecular_function] (1)	Alpha/Beta hydrolase fold [IPRO29058] (2); Alpha/beta hydrolase 6d/5 [IPRO29059] (1); Peptidase S9, prolyl oligopeptidase, catalytic domain [IPRO1375] (1)	scaffold_1_mRNA_388.1	C_unshiu_00006_mRNA_103.1	-
GF0019987	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_386.2	C_unshiu_00006_mRNA_105.1	-
GF0019986	1	1	0	Putative VHS/GAT domain containing family protein (2)	intracellular [GO:0005622 cellular_component] (2); intracellular protein transport [GO:0006886 biological_process] (2)	GAT domain [IPRO04152] (2); ENTH/VHS [IPRO08942] (2); VHS domain [IPRO20104] (2); VHS subgroup [IPRO8295] (1)	scaffold_1_mRNA_385.1	C_unshiu_00006_mRNA_106.1	-
GF0019985	1	1	0	Hypothetical protein (2)	integral component of membrane [GO:0016021 cellular_component] (2)	Mpv17/PMP22 [IPRO07248] (2)	scaffold_1_mRNA_371.1	C_unshiu_00006_mRNA_121.1	-
GF0019984	1	1	0	Hypothetical protein (2)	heme binding [GO:0020037 molecular_function] (2); iron ion binding [GO:0005506 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)	Cytochrome P450 [IPRO01128] (2); Cytochrome P450, conserved site [IPRO17972] (2)	scaffold_1_mRNA_37.1	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 [IPRO32675] (2); Leucine-rich repeat [IPRO01611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPRO13210] (1)	scaffold_1_mRNA_360.1	C_unshiu_01269_mRNA_5.1	-
GF0019982	1	1	0	Hypothetical protein (1); Zinc finger CCH1 domain-containing protein 16 (1)	metal ion binding [GO:0046872 molecular_function] (2)	Zinc finger, CCH-type [IPRO00571] (2)	scaffold_1_mRNA_360.1	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); ATP binding [GO:0005524 molecular_function] (2)	Protein kinase-like domain [IPRO11009] (2); Protein kinase domain [IPRO00719] (2)	scaffold_1_mRNA_359.1	C_unshiu_01269_mRNA_7.1	-
GF0019979	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_359.2	C_unshiu_00591_mRNA_12.1	-
GF0019978	1	1	0	ZincRING finger 3 (2)	protein binding [GO:0005515 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (2)	Zinc finger, RING-FYVE/PHD-type [IPRO13083] (2); Zinc finger, RING-type [IPRO1841] (2)	scaffold_1_mRNA_358.1	C_unshiu_00591_mRNA_19.1	-
GF0019968	1	1	0	Low temperature and salt responsive protein family isoform 1 (2)	integral component of membrane [GO:0016021 cellular_component] (2)	Proteolipid membrane potential modulator [IPRO06612] (2)	scaffold_1_mRNA_3513.1	C_unshiu_01195_mRNA_3.1	-
GF0019966	1	1	0	Hydroxycinnamoyl-CoA shikimate/quinamate hydroxycinnamoyltransferase (1); Hydroxycinnamoyl-CoA shikimate/quinamate hydroxycinnamoyl transferase (1)	transferase activity, transferring acyl groups other than amino-acyl groups [GO:0016747 molecular_function] (2)	Transferase [IPRO03480] (2); Chlorophenicol acetyltransferase-like domain [IPRO23213] (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 [IPRO15915] (1); Ribonuclease H-like domain [IPRO12337] (1)	scaffold_1_mRNA_3494.1	C_unshiu_01447_mRNA_7.1	-
GF0019962	1	1	0	Hypothetical protein (1); Pentatricopeptide repeat-containing family protein (1)	protein binding [GO:0005515 molecular_function] (2)	Zinc finger, RING-FYVE/PHD-type [IPRO13083] (2); Tetratricopeptide repeat [IPRO02885] (2); Tetratricopeptide-like helical domain [IPRO11990] (2)	scaffold_1_mRNA_3487.1	C_unshiu_00562_mRNA_3.1	-
GF0019960	1	1	0	Hydroxycinnamoyl-CoA shikimate/quinamate hydroxycinnamoyl transferase (2)	transferase activity, transferring acyl groups other than amino-acyl groups [GO:0016747 molecular_function] (2)	Transferase [IPRO03480] (2); Chlorophenicol acetyltransferase-like domain [IPRO23213] (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-like helical domain [IPRO11990] (2); Tetratricopeptide repeat-containing domain [IPRO13026] (2); Tetratricopeptide repeat [IPRO19734] (2); Tetratricopeptide repeat 1 [IPRO01400] (1)	scaffold_1_mRNA_3460.1	C_unshiu_00348_mRNA_5.1	-
GF0019957	1	1	0	Cinnamoyl-CoA reductase 1 (2)	coenzyme binding [GO:0005062 molecular_function] (2); catalytic activity [GO:0003824 molecular_function] (2)	epimerase (dehydratase, N-terminal domain) [IPRO01509] (1); NAD-dependent epimerase/dehydratase [IPRO01509] (1)	scaffold_1_mRNA_3457.1	C_unshiu_01142_mRNA_1.1	-
GF0019951	1	1	0	Putative bigh-2-associated protein p12 (2)		Equippin pollen allergen, DPBB domain [IPRO07112] (2); RlpA-like protein, double-psi beta-barrel domain [IPRO09009] (1); RlpA-like double-psi beta-barrel domain [IPRO09009] (1)	scaffold_1_mRNA_3431.1	C_unshiu_00348_mRNA_30.1	-

ID	Num in <i>C. clementinae</i>	Num in <i>C. acutis</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF0019950	1	1	1	Cytochrome P450 (1); Cytochrome P450, family 81, subfamily D, polypeptide 8, putative (1)	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, conserved site [IPRO17972] (2); Cytochrome P450, E-class, group 1 [IPRO02401] (2); Cytochrome P450 [IPRO01128] (2)	scaffold_1_mRNA_3415.1	C_unshiu_00237_mRNA_15.1	-
GF0019947	1	1	1	DUF1795-like photosystem II reaction center P68 family protein (2)	photosystem II oxygen-evolving complex [GO:0008654 cellular_component] (1); photosystem II [GO:0000523 cellular_component] (1); photosynthesis [GO:0015979 biological_process] (1); calcium ion binding [GO:0005509 molecular_function] (1); extrinsic component of membrane [GO:0019898 cellular_component] (1)	MogI/PsbP, alpha beta/alpha sandwich [IPRO16123] (2); PsbP family [IPRO02683] (1)	scaffold_1_mRNA_339.1	C_unshiu_00833_mRNA_4.1	-
GF0019946	1	1	1	0 Hypothetical protein (2)	carbohydrate metabolic process [GO:0005975 biological_process] (2); hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular_function] (2)	Concanavalin A-like lectin/glucanase domain [IPRO13320] (2); Glycoside hydrolase family 16 [IPRO00757] (2)	scaffold_1_mRNA_3384.1	C_unshiu_02081_mRNA_6.1	-
GF0019945	1	1	1	0 CTC-interacting domain 5, putative isoform 1 (2)	protein binding [GO:0005515 molecular_function] (2)	UBA-like [IPRO09060] (2); Ubiquitin system component Cue [IPRO03892] (2)	scaffold_1_mRNA_338.1	C_unshiu_00833_mRNA_5.1	-
GF0019943	1	1	1	0 Hypothetical protein (1); Probable endomembrane glucosyltransferase protein 23 (1)	apoplast [GO:0040046 cellular_component] (2); cellular glucan metabolic process [GO:0006073 biological_process] (2); hydrolase activity, hydrolyzing O-glycosyl compounds [GO:0004553 molecular_function] (2); cell wall [GO:0005618 cellular_component] (2); carbohydrate metabolic process [GO:0005975 biological_process] (2); xyloglucan xyloglucosyl transferase activity [GO:0016762 molecular_function] (2)	Glycoside hydrolase family 16 [IPRO00757] (2); Nucleotide-diphosphate transferase [IPRO05069] (2); Xyloglucan endo-transglucosylase, C-terminal [IPRO10713] (2); Glycoside hydrolase, family 16, active site [IPRO08263] (2); Concanavalin A-like lectin/glucanase domain [IPRO13320] (2)	scaffold_1_mRNA_3375.1	C_unshiu_02828_mRNA_3.1	-
GF0019941	1	1	1	0 Hypothetical protein (2)		DNA-binding pseudobarrel domain [IPRO15300] (1)	scaffold_1_mRNA_3357.1	C_unshiu_00347_mRNA_30.1	-
GF0019940	1	1	1	0 Hypothetical protein (2)		Pre-mRNA splicing Psp18-interacting factor [IPRO21715] (2)	scaffold_1_mRNA_3355.1	C_unshiu_00347_mRNA_29.1	-
GF0019937	1	1	1	0 Hypothetical protein (2)			scaffold_1_mRNA_3350.1	C_unshiu_00347_mRNA_26.1	-
GF0019936	1	1	1	0 Replication protein A 32 kDa subunit (2)	DNA replication [GO:0006260 biological_process] (2); DNA recombination [GO:0006310 biological_process] (2); DNA repair [GO:0006281 biological_process] (2); DNA binding [GO:0001677 molecular_function] (2); nucleus [GO:0005634 cellular_component] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	OB-fold nucleic acid binding domain, AA-RNA synthetase-type [IPRO04365] (2); Replication factor A protein 2 [IPRO14646] (2); Replication protein A, C-terminal [IPRO14892] (2); Winged helix-helix DNA-binding domain [IPRO11991] (2); Nucleic acid-binding, OB-fold [IPRO12340] (2)	scaffold_1_mRNA_3342.2	C_unshiu_00347_mRNA_18.2	-
GF0019935	1	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)	UbiA prenyltransferase family [IPRO00537] (2)	scaffold_1_mRNA_3329.2	C_unshiu_00347_mRNA_6.1	-
GF0019932	1	1	1	0 Hypothetical protein (2)			scaffold_1_mRNA_3325.1	C_unshiu_00347_mRNA_3.1	-
GF0019930	1	1	1	0 Hypothetical protein (2)			scaffold_1_mRNA_3316.1	C_unshiu_00105_mRNA_3316.1	-
GF0019929	1	1	1	0 Pentatricopeptide repeat-containing protein, putative isoform 2 (1); Pentatricopeptide repeat-containing protein, mitochondrial (1)	serine-type endopeptidase activity [GO:0004252 molecular_function] (2); proteolysis [GO:0006908 biological_process] (2)	Peptidase S8/S53 domain [IPRO00209] (2); Pentatricopeptide repeat [IPRO02885] (2)	scaffold_1_mRNA_3304.1	C_unshiu_00105_mRNA_21.1	-
GF0019927	1	1	1	0 Pentatricopeptide (2)	protein binding [GO:0005515 molecular_function] (1)	Pentatricopeptide repeat [IPRO02885] (2); Tetra- or pentapeptide-like helical domain [IPRO11990] (1)	scaffold_1_mRNA_3295.1	C_unshiu_00105_mRNA_30.1	-
GF0019924	1	1	1	0 Mitotic-spindle organizing protein 1B (2)	gamma-tubulin complex localization [GO:0033566 biological_process] (1); gamma-tubulin ring complex [GO:0005274 cellular_component] (1)	Mitotic-spindle organizing protein 1 [IPRO22214] (1); Protein of unknown function DUF3743 [IPRO22214] (1)	scaffold_1_mRNA_3285.1	C_unshiu_00105_mRNA_38.1	-
GF0019923	1	1	1	0 Hypothetical protein (2)	ATPase activity, coupled to transmembrane movement of substances [GO:0042626 molecular_function] (2); transmembrane transport [GO:0055085 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 1, transmembrane domain [IPRO11527] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO027417] (1)	scaffold_1_mRNA_3277.1	C_unshiu_00105_mRNA_46.1	-
GF0019922	1	1	1	0 Hypothetical protein (2)			scaffold_1_mRNA_3260.1	C_unshiu_00131_mRNA_24.1	-
GF0019921	1	1	1	0 UPR1414 transmembrane protein 0 C2orf30 like (2)		Protein of unknown function DUF872, transmembrane [IPRO08590] (2)	scaffold_1_mRNA_3252.1	C_unshiu_00131_mRNA_32.1	-
GF0019919	1	1	1	0 Hypothetical protein (2)			scaffold_1_mRNA_323.1	C_unshiu_00309_mRNA_9.1	-
GF0019918	1	1	1	0 Hypothetical protein (2)	binding [GO:0005488 molecular_function] (2); protein binding [GO:0005515 molecular_function] (1); microtubule [GO:0005874 cellular_component] (1)	Armadillo-like helical [IPRO19899] (2); Armadillo-type fold [IPRO16024] (2); HEAT repeat associated with sister chromatid cohesion protein [IPRO26003] (1); HEAT repeat [IPRO00357] (1); MT-associated protein [IPRO1990] (1); TOR1FOLIA1/SPIRAL2-like [IPRO33337] (1)	scaffold_1_mRNA_3226.1	C_unshiu_00131_mRNA_58.1	-
GF0019917	1	1	1	0 Squalene monooxygenase (2)	squalene monooxygenase activity [GO:0004506 molecular_function] (2); integral component of membrane [GO:0016021 cellular_component] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); flavin adenine dinucleotide binding [GO:0005060 molecular_function] (2)	FAD/NAD(P)-binding domain [IPRO23753] (2); Squalene epoxidase [IPRO13698] (2)	scaffold_1_mRNA_3225.1	C_unshiu_00583_mRNA_16.1	-
GF0019913	1	1	1	0 Organic cation/carnitine transporter 7 (2)	transmembrane transport [GO:0055085 biological_process] (2); transmembrane transporter activity [GO:0022857 molecular_function] (2); integral component of membrane [GO:0016021 cellular_component] (2)	Major facilitator, sugar transporter-like [IPRO05828] (2); Major facilitator superfamily domain [IPRO20846] (2)	scaffold_1_mRNA_3204.1	C_unshiu_00315_mRNA_15.1	-
GF0019912	1	1	1	0 Synaptic vesicle 2-related protein (2)	transmembrane transporter activity [GO:0022857 molecular_function] (2); integral component of membrane [GO:0016021 cellular_component] (2); transmembrane transport [GO:0055085 biological_process] (2)	Major facilitator, sugar transporter-like [IPRO05828] (2); Major facilitator superfamily domain [IPRO20846] (2)	scaffold_1_mRNA_3202.1	C_unshiu_00315_mRNA_13.1	-
GF0019909	1	1	1	0 Glucosidase II beta subunit-like protein (2)		Mannose-6-phosphate receptor binding domain [IPRO09011] (2); Glucosidase II beta subunit-like [IPRO12913] (2)	scaffold_1_mRNA_3197.1	C_unshiu_00066_mRNA_3.1	-
GF0019908	1	1	1	0 Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPRO32675] (2)	scaffold_1_mRNA_3194.1	C_unshiu_00066_mRNA_6.1	-
GF0019900	1	1	1	0 Chloroplast photosystem II subunit X (2)	membrane [GO:0016020 cellular_component] (2); photosynthesis [GO:0015979 biological_process] (2); photosystem II [GO:0000523 cellular_component] (2)	Photosystem II PsbX [IPRO09518] (2)	scaffold_1_mRNA_3093.1	C_unshiu_00498_mRNA_13.1	-
GF0019896	1	1	1	0 Pentatricopeptide repeat-containing family protein (2)	protein binding [GO:0005515 molecular_function] (2)	Pentatricopeptide repeat [IPRO02885] (2); Tetra- or pentapeptide-like helical domain [IPRO11990] (1)	scaffold_1_mRNA_3059.1	C_unshiu_00150_mRNA_30.1	-
GF0019895	1	1	1	0 Putative nucleodoxin 1 (2)	oxidation-reduction process [GO:0055114 biological_process] (1); protein-disulfide reductase activity [GO:0004734 molecular_function] (1); cell redox homeostasis [GO:0045454 biological_process] (1)	Thioredoxin-like fold [IPRO12336] (2); DC1 [IPRO04146] (1); C1-like [IPRO11424] (1); Thioredoxin domain [IPRO13746] (1); Ricin B, lectin domain [IPRO00772] (1)	scaffold_1_mRNA_3056.1	C_unshiu_00150_mRNA_27.1	-
GF0019894	1	1	1	0 Hypothetical protein (2)	oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity [GO:0016491 molecular_function] (2)	FAD/NAD(P)-binding domain [IPRO23753] (2)	scaffold_1_mRNA_304.1	C_unshiu_01113_mRNA_12.1	-
GF0019893	1	1	1	0 Monofunctional lysine-ketoglutarate reductase 1 (2)		Alanine dehydrogenase/pyridine nucleotide transhydrogenase, N-terminal [IPRO07886] (2); Alanine dehydrogenase/pyridine nucleotide transhydrogenase, NAD(P)-binding domain [IPRO07698] (2)	scaffold_1_mRNA_3033.1	C_unshiu_00150_mRNA_2.1	-
GF0019892	1	1	1	0 Invertase/pectin methyltransferase inhibitor 0 family protein (1); Pectinesterase inhibitor (1)	enzyme inhibitor activity [GO:0004857 molecular_function] (2); negative regulation of catalytic activity [GO:0043086 biological_process] (1); pectinesterase inhibitor activity [GO:0046910 molecular_function] (1)	Pectinesterase inhibitor domain [IPRO06501] (2); Pectinesterase inhibitor, plant [IPRO34086] (1)	scaffold_1_mRNA_3031.1	C_unshiu_02111_mRNA_1.1	-

ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF0019891	1	1	0	Monoxygenase family protein (2)	oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:005514 biological_process] (2)	FAD/NAD(P) <sup>+</sup> binding domain [IPR023753] (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); microtubule-based movement [GO:0007018 biological_process] (2); ATP binding [GO:0005524 molecular_function] (2)	Kinesin motor domain, conserved site [IPR019821] (2); Kinesin motor domain [IPR001752] (2); NPK1-activating kinesin-like protein, C-terminal [IPR021881] (2); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Kinesin-like protein [IPR027640] (1)	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, plant/cyanobacteria [IPR012820] (2); Glycosyl transferase, family 1 [IPR001296] (2); Sucrose synthase [IPR000368] (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 [GO:1901671 biological_process] (2); transition metal ion binding [GO:0046914 molecular_function] (2); protein folding [GO:0006457 biological_process] (2)	DnaJ homologue, subfamily C, member 28, conserved domain [IPR010861] (1)	scaffold_1_mRNA_3011.1	C_unshiu_00341_mRNA_11.1	-
GF0019887	1	1	0	Hypothetical protein (1); Mitochondrial ferredoxin 2 (1)	Hypothetical protein (1); Mitochondrial ferredoxin 2 [GO:0005737 cellular_component] (2); ATP binding [GO:0005524 molecular_function] (2); positive regulation of superoxide dismutase activity [GO:1901671 biological_process] (2); transition metal ion binding [GO:0046914 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)	Beta-grasp domain [IPR012675] (1)	scaffold_1_mRNA_3005.1	C_unshiu_00341_mRNA_6.1	-
GF0019885	1	1	0	20 kDa chaperonin, chloroplastic (2)	cellular component [GO:0005524 molecular_function] (2); positive regulation of superoxide dismutase activity [GO:1901671 biological_process] (2); transition metal ion binding [GO:0046914 molecular_function] (2); protein folding [GO:0006457 biological_process] (2)	GroES chaperonin family [IPR020818] (2); GroES-like [IPR011032] (2); Chaperonin GroES, conserved site [IPR018300] (2); Chaperonin Cpn20 [IPR017416] (2)	scaffold_1_mRNA_2995.1	C_unshiu_00047_mRNA_91.1	-
GF0019884	1	1	0	Ethylene-responsive transcription factor ERF18 (2)	Ethylene-responsive 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_1_mRNA_2994.1	C_unshiu_00047_mRNA_90.1	-
GF0019883	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	PA domain [IPR003137] (2); Peptidase S8/S53 domain [IPR000209] (2); Peptidase S8, subtilisin-related [IPR015500] (2); Peptidase S8 [IPR015500] (2); Peptidase S8 propeptide/protease inhibitor 19 [IPR010259] (1); Cucumis-like catalytic domain [IPR034197] (1); Protease propeptides/protease inhibitor 19 [IPR009020] (1)	scaffold_1_mRNA_297.1	C_unshiu_01113_mRNA_3.1	-
GF0019882	1	1	0	Subtilisin-like serine protease (2)	proteolysis [GO:0006508 biological_process] (2); serine-type endopeptidase activity [GO:0004252 molecular_function] (2)	Peptidase S8, subtilisin-related [IPR015500] (2); Peptidase S8 [IPR015500] (2); Peptidase S8 propeptide/protease inhibitor 19 [IPR010259] (1); Cucumis-like catalytic domain [IPR034197] (1); Protease propeptides/protease inhibitor 19 [IPR009020] (1)	scaffold_1_mRNA_2967.1	C_unshiu_00047_mRNA_62.1	-
GF0019881	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	Sodium/calcium exchanger membrane region [IPR008873] (2); Amino acid transporter, transmembrane domain [IPR013057] (2); Calcium/proton exchanger CAX [IPR004798] (1)	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)	Hypothetical protein (1); Rho guanine nucleotide exchange factor 7, putative [GO:0008816 biological_process] (1); calcium/proton antiporter activity [GO:0015369 molecular_function] (1)	Sodium/calcium exchanger membrane region [IPR008873] (2); Amino acid transporter, transmembrane domain [IPR013057] (2); Calcium/proton exchanger CAX [IPR004798] (1)	scaffold_1_mRNA_2958.1	C_unshiu_00047_mRNA_52.1	-
GF0019879	1	1	0	ORF3-responsive gene 4 isoform 2 (2)	ORF3-responsive gene 4 isoform 2 [GO:0008816 biological_process] (1); calcium/proton antiporter activity [GO:0015369 molecular_function] (1)	Sodium/calcium exchanger membrane region [IPR008873] (2); Amino acid transporter, transmembrane domain [IPR013057] (2); Calcium/proton exchanger CAX [IPR004798] (1)	scaffold_1_mRNA_2957.1	C_unshiu_00047_mRNA_51.1	-
GF0019878	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	Peptidase S8/S53 domain [IPR000209] (2); Peptidase S8, subtilisin-related [IPR015500] (1)	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 [GO:0044353 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)	transmembrane transport [GO:0055085 biological_process] (2); integral component of membrane [GO:0016021 cellular_component] (2); calcium ion transport [GO:0008816 biological_process] (1); calcium/proton antiporter activity [GO:0015369 molecular_function] (1)	Sodium/calcium exchanger membrane region [IPR008873] (2); Amino acid transporter, transmembrane domain [IPR013057] (2); Calcium/proton exchanger CAX [IPR004798] (1)	scaffold_1_mRNA_2926.1	C_unshiu_00047_mRNA_18.1	-
GF0019873	1	1	0	Hypothetical protein (2)	serine-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_1_mRNA_2917.1	C_unshiu_00047_mRNA_9.1	-
GF0019872	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	Endonuclease/tonuclease/phosphatase [IPR001535] (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 [IPR029063] (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 [IPR029063] (2)	scaffold_1_mRNA_2907.1	C_unshiu_00934_mRNA_13.1	-
GF0019868	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	Domain of unknown function DUF2431 [IPR019446] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (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)	Domain of unknown function DUF2431 [IPR019446] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (2)	scaffold_1_mRNA_2904.1	C_unshiu_01511_mRNA_15.1	-
GF0019865	1	1	0	Uridine kinase (2)	kinase activity [GO:0016301 molecular_function] (2); metabolic process [GO:0008152 biological_process] (2); ATP binding [GO:0005524 molecular_function] (2); uridine kinase activity [GO:0004849 molecular_function] (1); nucleoside metabolic process [GO:0009116 biological_process] (1); UMP salvage [GO:0044206 biological_process] (1)	P-loop containing nucleoside triphosphate hydrolase [IPR027417] (2); Phosphoribulokinase/uridine kinase [IPR006083] (2); Uridine kinase-like [IPR007054] (2); Phosphoribosyltransferase-like [IPR029057] (2); Uridine kinase-like protein, plant [IPR029930] (1); Phosphoribosyltransferase domain [IPR000836] (1)	scaffold_1_mRNA_2885.1	C_unshiu_00081_mRNA_49.1	-
GF0019852	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	Agmatine domain, plant type [IPR014002] (2); Agmatine-like domain [IPR008395] (2); Bromo adjacent homology (BAH) domain [IPR010252] (2); WLM domain [IPR013536] (2)	scaffold_1_mRNA_2808.1	C_unshiu_00681_mRNA_12.1	-
GF0019851	1	1	0	Bromo adjacent-like domain protein (2)	chromatin binding [GO:0003682 molecular_function] (2)	Agmatine domain, plant type [IPR014002] (2); Agmatine-like domain [IPR008395] (2); Bromo adjacent homology (BAH) domain [IPR010252] (2); WLM domain [IPR013536] (2)	scaffold_1_mRNA_2807.1	C_unshiu_00681_mRNA_13.1	-
GF0019850	1	1	0	Cytochrome P450 (2)	heme binding [GO:0020037 molecular_function] (2); iron ion binding [GO:0005506 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:0016705 molecular_function] (2); iron ion binding [GO:0005506 molecular_function] (2); heme binding [GO:0020037 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:0016705 molecular_function] (2)	Cytochrome P450 [IPR001128] (2)	scaffold_1_mRNA_2800.1	C_unshiu_01231_mRNA_1.1	-
GF0019849	1	1	0	Cytochrome P450 (2)	oxidation-reduction process [GO:0055114 biological_process] (2); oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] (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 molecular oxygen [GO:0016705 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2); heme binding [GO:0020037 molecular_function] (2); iron ion binding [GO:0005506 molecular_function] (2)	Cytochrome P450, E-class, group I [IPR002401] (2); Cytochrome P450, conserved site [IPR017972] (2); Cytochrome P450 [IPR001128] (2)	scaffold_1_mRNA_2796.1	C_unshiu_00554_mRNA_18.1	-
GF0019847	1	1	0	Cytochrome P450 (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:0020037 molecular_function] (2); iron ion binding [GO:0005506 molecular_function] (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 ion 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)	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:0046872 molecular_function] (2); metal ion transport [GO:0030001 biological_process] (2)	Heavy metal-associated domain, HMA [IPR006121] (2)	scaffold_1_mRNA_2778.1	C_unshiu_00554_mRNA_5.1	-
GF0019842	1	1	0	Hypothetical protein (2)	Hypothetical protein (2)	dUTPase-like [IPR029054] (2); Deoxyuridine triphosphate nucleotidohydrolase [IPR008181] (1); dUTPase, trimeric [IPR033704] (1); Deoxyuridine triphosphate nucleotidohydrolase/Deoxyuridine triphosphate deaminase [IPR008180] (1)	scaffold_1_mRNA_2769.1	C_unshiu_01429_mRNA_5.1	-
GF0019840	1	1	0	Putative deoxyuridine 5'-triphosphate nucleotidohydrolase-like (1)	Deoxyuridine 5'-triphosphate nucleotidohydrolase family protein (1); Putative deoxyuridine 5'-triphosphate nucleotidohydrolase-like (1)	dUTPase-like [IPR029054] (2); Deoxyuridine triphosphate nucleotidohydrolase [IPR008181] (1); dUTPase, trimeric [IPR033704] (1); Deoxyuridine triphosphate nucleotidohydrolase/Deoxyuridine triphosphate deaminase [IPR008180] (1)	scaffold_1_mRNA_2767.1	C_unshiu_01429_mRNA_7.1	-
GF0019839	1	1	0	V-type proton ATPase subunit e (2)	proton-transporting V-type ATPase, V0 domain [GO:0033379 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 e/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. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF0019838	1	1	0	Transcription initiation factor TFIIID subunit 6 (2)	protein heterodimerization activity [GO:0046962 molecular_function] (2); nucleus [GO:0005634 cellular_component] (2); binding [GO:0005488 molecular_function] (2); regulation of sequence-specific DNA binding transcription factor activity [GO:0051090 biological_process] (2); DNA-templated transcription, initiation [GO:0006352 biological_process] (2)	Armadillo-type fold [IPRO16024] (2); TAF <sub>II</sub> C-terminal HEAT repeat domain [IPRO11442] (2); TAF <sub>II</sub> box binding protein associated factor (TAF) [IPRO04833] (2); Armadillo-like helical [IPRO11909] (2); Histone-fold [IPRO09072] (2)	scaffold_1_mRNA_237.1	C_usnhii_00103_mRNA_56.1	-
GF0019836	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (1)	F-box domain [IPRO01810] (1); Leucine-rich repeat domain, L domain-like [IPRO32675] (1)	scaffold_1_mRNA_2710.1	C_usnhii_00103_mRNA_26.1	-
GF0019834	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (1)	FHY3/FAR1 family [IPRO31052] (1)	scaffold_1_mRNA_2690.1	C_usnhii_02382_mRNA_5.1	-
GF0019831	1	1	0	Calcium-dependent protein kinase 21 (2)	ATP binding [GO:0005524 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2); calcium ion binding [GO:0005509 molecular_function] (1)	Serine/threonine-protein kinase, active site [IPRO08271] (2); Protein kinase domain [IPRO00719] (2); Protein kinase-like domain [IPRO11009] (2); Protein kinase, ATP binding site [IPRO17441] (1); EF-hand domain [IPRO02088] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPRO02290] (1); EF-Hand 1, calcium-binding site [IPRO18247] (1); EF-hand domain pair [IPRO11992] (1)	scaffold_1_mRNA_2654.1	C_usnhii_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 [IPRO11009] (2); Protein kinase domain [IPRO00719] (2); EF-hand domain pair [IPRO11992] (1); EF-Hand 1, calcium-binding site [IPRO18247] (1); EF-hand domain [IPRO02088] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPRO02290] (1); Protein kinase, ATP binding site [IPRO17441] (1)	scaffold_1_mRNA_2649.1	C_usnhii_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); protein kinase activity [GO:0004672 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2)	Protein kinase domain [IPRO00719] (2); Ankyrin repeat [IPRO02102] (2); Protein kinase-like domain [IPRO11009] (2); Serine/threonine-protein kinase, active site [IPRO08271] (2); Protein kinase, ATP binding site [IPRO17441] (2); PGG domain [IPRO26961] (2); Ankyrin repeat-containing domain [IPRO020683] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPRO02290] (1)	scaffold_1_mRNA_2635.1	C_usnhii_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] (1); protein phosphorylation [GO:0006468 biological_process] (1)	EF-Hand 1, calcium-binding site [IPRO18247] (2); EF-hand domain [IPRO02088] (2); EF-hand domain pair [IPRO11992] (2); Serine/threonine-protein kinase, active site [IPRO08271] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPRO02290] (1); Protein kinase-like domain [IPRO11009] (1); Protein kinase domain [IPRO00719] (1)	scaffold_1_mRNA_2631.1	C_usnhii_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)	Zinc finger, RING-type [IPRO01841] (2); Zinc finger, RINGFYVE/PHD-type [IPRO13083] (2); RdaA family [IPRO06056] (1); YjgF/YER057c/UK114 family [IPRO111] (1); RdaA, conserved site [IPRO19897] (1); Endoribonuclease L-PSF/chorismate mutase-like [IPRO13813] (1)	scaffold_1_mRNA_2627.1	C_usnhii_01352_mRNA_1.1	-
GF0019824	1	1	0	Polysialyltransferase protein RBP47C (1); Hypothetical protein (1)	nucleic acid binding [GO:0003676 molecular_function] (2); nucleoside binding [GO:0000166 molecular_function] (1); ADP binding [GO:0043531 molecular_function] (1)	RNA recognition motif domain [IPRO00594] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO27471] (1); Nucleotide-binding alpha-beta domain [IPRO12677] (1); NB-ARC [IPRO02182] (1)	scaffold_1_mRNA_2611.1	C_usnhii_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); proteasome core complex [GO:0005839 cellular_component] (2); proteolysis involved in cellular protein catabolic process [GO:0051603 biological_process] (2)	Proteasome beta-type subunit, conserved site [IPRO16050] (2); Proteasome B-type subunit [IPRO23333] (2); Peptidase T1A, proteasome beta-subunit [IPRO00243] (2); Nucleophilic aminohydroxylase, N-terminal [IPRO29055] (2); Proteasome, subunit alpha/beta [IPRO01353] (2)	scaffold_1_mRNA_260.1	C_usnhii_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 [GO:0055114 biological_process] (2); iron ion binding [GO:0005506 molecular_function] (2); heme binding [GO:0020037 molecular_function] (2); monooxygenase activity [GO:0004497 molecular_function] (1)	Cytochrome P450, B-class [IPRO02397] (2); Cytochrome P450, conserved site [IPRO17972] (2); Cytochrome P450 [IPRO01128] (2)	scaffold_1_mRNA_2595.1	C_usnhii_00555_mRNA_9.1	-
GF0019820	1	1	0	Aminotransferase-like, plant mobile domain family protein (1); C globular stage, putative (1)	Aminotransferase-like, plant mobile domain [IPRO19557] (2); Protein of unknown function DUF716 (TMEM445) [IPRO06904] (2)	Aminotransferase-like, plant mobile domain [IPRO19557] (2); Protein of unknown function DUF716 (TMEM445) [IPRO06904] (2)	scaffold_1_mRNA_2584.1	C_usnhii_00017_mRNA_22.1	-
GF0019819	1	1	0	Hypothetical protein (2)	Leucine-rich repeat domain, L domain-like [IPRO32675] (1)	Leucine-rich repeat domain, L domain-like [IPRO32675] (1)	scaffold_1_mRNA_2578.1	C_usnhii_00017_mRNA_30.1	-
GF0019818	1	1	0	F-box, LRR-repeat protein At3g58900 (1); Hypothetical protein (1)	protein binding [GO:0005515 molecular_function] (1)	Leucine-rich repeat domain, L domain-like [IPRO32675] (2); F-box domain [IPRO01810] (1)	scaffold_1_mRNA_2577.1	C_usnhii_00017_mRNA_31.1	-
GF0019817	1	1	0	LRR receptor-like kinase family protein 0 (1); LRR receptor-like serine/threonine-protein kinase GSO1 (1)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat-containing N-terminal, plant-type [IPRO13210] (2); Leucine-rich repeat [IPRO01611] (2); Leucine-rich repeat, typical subtype [IPRO03591] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2)	scaffold_1_mRNA_2573.1	C_usnhii_02856_mRNA_2.1	-
GF0019815	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); zinc ion binding [GO:0008270 molecular_function] (2)	FAR1 DNA binding domain [IPRO04330] (2); FHY3/FAR1 family [IPRO31052] (2); Zinc finger, SWIM-like [IPRO07527] (2); MULE transposase domain [IPRO18289] (2)	scaffold_1_mRNA_2571.1	C_usnhii_02856_mRNA_3.1	-
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)	Aminotransferase-like, plant mobile domain [IPRO19557] (2); Protein of unknown function DUF716 (TMEM445) [IPRO06904] (2)	scaffold_1_mRNA_2566.1	C_usnhii_01265_mRNA_7.1	-
GF0019813	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); zinc ion binding [GO:0008270 molecular_function] (2)	Leucine-rich repeat 2 [IPRO13101] (2); F-box domain [IPRO01810] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); FBD domain [IPRO06566] (1)	scaffold_1_mRNA_2562.1	C_usnhii_01265_mRNA_2.1	-
GF0019812	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); zinc ion binding [GO:0008270 molecular_function] (2)	Aminotransferase-like, plant mobile domain [IPRO19557] (2); Protein of unknown function DUF716 (TMEM445) [IPRO06904] (2)	scaffold_1_mRNA_2558.1	C_usnhii_03061_mRNA_1.1	-
GF0019811	1	1	0	FBD, F-box and leucine rich repeat domain-containing protein (2)	protein binding [GO:0005515 molecular_function] (2)	Leucine-rich repeat 2 [IPRO13101] (2); F-box domain [IPRO01810] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); FBD domain [IPRO06566] (1)	scaffold_1_mRNA_2554.1	C_usnhii_02130_mRNA_1.1	-
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)	Serine/threonine-protein kinase, active site [IPRO08271] (2); Protein kinase, ATP binding site [IPRO17441] (2); Protein kinase-like domain [IPRO11009] (2); Protein kinase domain [IPRO00719] (2); Conserved alpha-beta lectin/galactanase domain [IPRO13320] (1)	scaffold_1_mRNA_2551.1	C_usnhii_00036_mRNA_51.1	-
GF0019809	1	1	0	Serine/threonine-protein kinase PHS1 (2)	protein phosphorylation [GO:0006468 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2)	Protein of unknown function DUF4666 [IPRO31421] (2)	scaffold_1_mRNA_2551.1	C_usnhii_00749_mRNA_12.1	-
GF0019808	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); zinc ion binding [GO:0008270 molecular_function] (2)	Protein of unknown function DUF4666 [IPRO31421] (2)	scaffold_1_mRNA_2547.1	C_usnhii_00576_mRNA_15.1	-
GF0019807	1	1	0	Hypothetical protein (2)	Serine/threonine-protein phosphatase 6 regulatory ankyrin repeat subunit A (1); Ankyrin repeat family protein, putative (1)	Ankyrin repeat-containing domain [IPRO020683] (2); Ankyrin repeat [IPRO02110] (1)	scaffold_1_mRNA_2541.1	C_usnhii_02076_mRNA_3.1	-
GF0019806	1	1	0	regulatory ankyrin repeat subunit A (1); Ankyrin repeat family protein, putative (1)	protein binding [GO:0005515 molecular_function] (2)	PGG domain [IPRO26961] (2); Ankyrin repeat-containing domain [IPRO020683] (2); Ankyrin repeat [IPRO02110] (1)	scaffold_1_mRNA_2540.1	C_usnhii_02122_mRNA_1.1	-
GF0019805	1	1	0	Ankyrin repeat protein (2)	protein binding [GO:0005515 molecular_function] (1)	Protein of unknown function DUF4666 [IPRO31421] (2)	scaffold_1_mRNA_254.1	C_usnhii_00749_mRNA_11.1	-
GF0019804	1	1	0	Hypothetical protein (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (1); gamma-glutamylcystyltransferase activity [GO:0003839 molecular_function] (1)	Gamma-glutamylcystyltransferase-like [IPRO13024] (1); Glutathione-specific gamma-glutamylcystyltransferase [IPRO06840] (1); ClacC-like protein [IPRO06840] (1); Botomium biosynthesis, BFG-like [IPRO13024] (1)	scaffold_1_mRNA_2519.1	C_usnhii_00142_mRNA_8.1	-
GF0019803	1	1	0	Hypothetical protein (2)	glutathione catabolic process [GO:0006751 biological_process] (1); gamma-glutamylcystyltransferase activity [GO:0003839 molecular_function] (1)	Gamma-glutamylcystyltransferase-like [IPRO13024] (1); Glutathione-specific gamma-glutamylcystyltransferase [IPRO06840] (1); ClacC-like protein [IPRO06840] (1); Botomium biosynthesis, BFG-like [IPRO13024] (1)	scaffold_1_mRNA_2519.1	C_usnhii_00157_mRNA_2.1	-
GF0019801	1	1	0	Hypothetical protein (2)	glutathione catabolic process [GO:0006751 biological_process] (1); gamma-glutamylcystyltransferase activity [GO:0003839 molecular_function] (1)	Gamma-glutamylcystyltransferase-like [IPRO13024] (1); Glutathione-specific gamma-glutamylcystyltransferase [IPRO06840] (1); ClacC-like protein [IPRO06840] (1); Botomium biosynthesis, BFG-like [IPRO13024] (1)	scaffold_1_mRNA_2500.1	C_usnhii_00157_mRNA_2.1	-
GF0019800	1	1	0	Cation transport protein chac2 (2)	glutathione catabolic process [GO:0006751 biological_process] (1); gamma-glutamylcystyltransferase activity [GO:0003839 molecular_function] (1)	Gamma-glutamylcystyltransferase-like [IPRO13024] (1); Glutathione-specific gamma-glutamylcystyltransferase [IPRO06840] (1); ClacC-like protein [IPRO06840] (1); Botomium biosynthesis, BFG-like [IPRO13024] (1)	scaffold_1_mRNA_250.1	C_usnhii_00003_mRNA_137.2	-
GF0019799	1	1	0	Hypothetical protein (2)	glutathione catabolic process [GO:0006751 biological_process] (1); gamma-glutamylcystyltransferase activity [GO:0003839 molecular_function] (1)	Gamma-glutamylcystyltransferase-like [IPRO13024] (1); Glutathione-specific gamma-glutamylcystyltransferase [IPRO06840] (1); ClacC-like protein [IPRO06840] (1); Botomium biosynthesis, BFG-like [IPRO13024] (1)	scaffold_1_mRNA_2499.1	C_usnhii_00157_mRNA_7.1	-

ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutula</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutula</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 [IPRO018178] (1); Retrotransposon gag domain [IPRO05162] (1)	scaffold_1_mRNA_2498.1	C_unshiu_01450_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 [IPRO01611] (2); Leucine-rich repeat domain, L domain-like [IPRO32975] (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)	Leucine-rich repeat, typical subtype [IPRO03591] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Leucine-rich repeat [IPRO01611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPRO13210] (2)	scaffold_1_mRNA_2492.1	C_unshiu_00487_mRNA_21.1	-
GF0019795	1	1	0	Hypothetical protein (2)			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)	Glutathione S-transferase, C-terminal-like [IPRO10987] (2); Ubiquitin domain [IPRO00626] (1); Ubiquitin-related domain [IPRO29071] (1); Ubiquitin [IPRO19956] (1)	scaffold_1_mRNA_2473.1	C_unshiu_00395_mRNA_15.1	-
GF0019792	1	1	0	Non-race specific disease resistance 1 (2)	transport [GO:0006810 biological_process] (2); integral component of membrane [GO:0016021 cellular_component] (2); ATPase activity [GO:0016887 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (2); transmembrane transport [GO:0055085 biological_process] (2); ATPase activity, coupled to transmembrane movement of substances [GO:0042626 molecular_function] (2)	ABC transporter, conserved site [IPRO17871] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO27471] (2); AAA+ ATPase domain [IPRO03933] (2); ABC transporter-like [IPRO04349] (2); ABC transporter type 1, transmembrane domain [IPRO11527] (2)	scaffold_1_mRNA_2471.1	C_unshiu_00395_mRNA_13.1	-
GF0019791	1	1	0	ABC transporter B family member 15 (2)	drug transmembrane transporter activity [GO:0015238 molecular_function] (2); antiporter activity [GO:0015297 molecular_function] (2); membrane [GO:0016020 cellular_component] (2); drug transmembrane transport [GO:0006555 biological_process] (2); transmembrane transport [GO:0055085 biological_process] (2)	Multi antimicrobial extrusion protein [IPRO25238] (2)	scaffold_1_mRNA_2464.1	C_unshiu_00395_mRNA_12.1	-
GF0019790	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2464.1	C_unshiu_00395_mRNA_6.1	-
GF0019788	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2447.1	C_unshiu_00626_mRNA_13.1	-
GF0019786	1	1	0	Terpenoid synthase (1); Delta-cadinene synthase isozyme A (1)	lyase activity [GO:0016829 molecular_function] (2); terpene synthase activity [GO:0010333 molecular_function] (2); magnesium ion binding [GO:0000287 molecular_function] (2)	Isoprenoid synthase domain [IPRO08949] (2); Terpene synthase, metal-binding domain [IPRO05630] (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-cadinene synthase isozyme XC14 (1); (+)-delta-cadinene synthase isozyme A (1)	lyase activity [GO:0016829 molecular_function] (2); terpene synthase activity [GO:0010333 molecular_function] (2); metabolic process [GO:0008152 biological_process] (2)	Terpenoid cyclase/protein prenyltransferase alpha-alpha toroid [IPRO08930] (2); Terpene synthase, N-terminal domain [IPRO01906] (2)	scaffold_1_mRNA_2419.1	C_unshiu_01090_mRNA_5.1	-
GF0019781	1	1	0	Sesquiterpene synthase (2)	magnesium ion binding [GO:0000287 molecular_function] (2); terpene synthase activity [GO:0010333 molecular_function] (2); lyase activity [GO:0016829 molecular_function] (2); metabolic process [GO:0008152 biological_process] (2)	Terpenoid cyclase/protein prenyltransferase alpha-alpha toroid [IPRO08930] (2); Terpene synthase, N-terminal domain [IPRO05630] (2); Isoprenoid synthase domain [IPRO08949] (2)	scaffold_1_mRNA_2409.1	C_unshiu_01090_mRNA_13.1	-
GF0019780	1	1	0	Hypothetical protein (2)	DNA binding [GO:0000377 molecular_function] (1)	Mtj-like domain [IPRO17877] (2); Homeodomain-like [IPRO09057] (1)	scaffold_1_mRNA_241.1	C_unshiu_00003_mRNA_136.1	-
GF0019779	1	1	0	Hypothetical protein (2)	metabolic process [GO:0008152 biological_process] (2); terpene synthase activity [GO:0010333 molecular_function] (2); lyase activity [GO:0016829 molecular_function] (2); magnesium ion binding [GO:0000287 molecular_function] (2)	Isoprenoid synthase domain [IPRO08949] (2); Terpene synthase, metal-binding domain [IPRO05630] (2); Terpene synthase, N-terminal domain [IPRO01906] (2)	scaffold_1_mRNA_2396.1	C_unshiu_00743_mRNA_10.1	-
GF0019778	1	1	0	Sesquiterpene synthase (2)	lyase activity [GO:0016829 molecular_function] (2); terpene synthase activity [GO:0010333 molecular_function] (2); magnesium ion binding [GO:0000287 molecular_function] (2)	Terpenoid cyclase/protein prenyltransferase alpha-alpha toroid [IPRO08930] (2)	scaffold_1_mRNA_2395.1	C_unshiu_00743_mRNA_11.1	-
GF0019777	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2393.1	C_unshiu_01083_mRNA_6.1	-
GF0019776	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2392.1	C_unshiu_01083_mRNA_5.1	-
GF0019775	1	1	0	Hypothetical protein (2)	proteolysis [GO:0006508 biological_process] (1); cysteine-type peptidase activity [GO:0008234 molecular_function] (1)	Ulp1 protease family, C-terminal catalytic domain [IPRO03653] (1)	scaffold_1_mRNA_2389.1	C_unshiu_02083_mRNA_4.1	-
GF0019774	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Endonuclease/exonuclease/phosphatase [IPRO05135] (2); Ribonuclease H-like domain [IPRO12337] (1)	scaffold_1_mRNA_2381.1	C_unshiu_00174_mRNA_5.1	-
GF0019772	1	1	0	Hypothetical protein (1); FARI DNA-binding domain protein (1)	zinc ion binding [GO:0008270 molecular_function] (2); regulation of transcription, DNA-templated [GO:0006355 biological_process] (2)	Zinc finger, SWIM-type [IPRO07527] (2); FYF3/FAR1 family [IPRO31052] (2); FARI DNA binding domain [IPRO04330] (1)	scaffold_1_mRNA_2371.1	C_unshiu_00126_mRNA_17.1	-
GF0019771	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2358.1	C_unshiu_01256_mRNA_1.1	-
GF0019770	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2353.1	C_unshiu_02834_mRNA_2.1	-
GF0019769	1	1	0	Monosaccharide transport protein (2)			scaffold_1_mRNA_2351.1	C_unshiu_02834_mRNA_5.1	-
GF0019768	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2350.1	C_unshiu_02834_mRNA_6.1	-
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 [IPRO11009] (2); Protein kinase domain [IPRO00719] (2); Serine/threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (1); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPRO01245] (1); Serine/threonine-protein kinase, active site [IPRO08271] (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 [IPRO21820] (2); Serine/threonine-protein kinase, active site [IPRO08271] (2); Protein kinase, ATP binding site [IPRO17441] (2); Protein kinase-like domain [IPRO11009] (2); Protein kinase domain [IPRO0719] (2); Serine/threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPRO2290] (1); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPRO01245] (1); Concavallin A-like lectin/glucanase domain [IPRO1320] (1)	scaffold_1_mRNA_2342.1	C_unshiu_00462_mRNA_14.1	-
GF0019763	1	1	0	Hypothetical protein (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)	Bull-type lectin domain [IPRO01480] (2); PAN/Apple domain [IPRO03609] (2); S-locus glycoprotein domain [IPRO00838] (2); Protein kinase-like domain [IPRO11009] (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, active site [IPRO08271] (2); Protein kinase domain [IPRO0719] (2); Protein kinase-like domain [IPRO11009] (2); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPRO01245] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPRO2290] (1); Serine/threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (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)			scaffold_1_mRNA_2308.1	C_unshiu_00386_mRNA_23.1	-
GF0019756	1	1	0	S-locus lectin kinase family protein (2)	recognition of pollen [GO:0048544 biological_process] (2); protein binding [GO:0005515 molecular_function] (2); protein phosphorylation [GO:0006468 biological_process] (1); protein kinase activity [GO:0004672 molecular_function] (1); ATP binding [GO:0005524 molecular_function] (1); protein tyrosine kinase activity [GO:0004713 molecular_function] (1)	Protein kinase-like domain [IPRO11009] (2); Bull-type lectin domain [IPRO01480] (2); PAN/Apple domain [IPRO03609] (2); EGF-like domain [IPRO00742] (2); S-locus glycoprotein domain [IPRO00838] (2); Tyrosine-protein kinase, catalytic domain [IPRO20651] (1); Protein kinase domain [IPRO00719] (1); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPRO01245] (1)	scaffold_1_mRNA_2289.1	C_unshiu_00210_mRNA_28.1	-

ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutula</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutula</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); protein phosphorylation [GO:0006468 biological_process] (2); ATP binding [GO:0005524 molecular_function] (2)	Protein kinase domain [IPRO00719] (2); Protein kinase-like domain [IPRO011009] (2); S-locus glycoprotein domain [IPRO00858] (2); Serine/threonine-protein kinase, active site [IPRO08271] (2); Bulb-type lectin domain [IPRO01480] (2); PAN/Apple domain [IPRO03609] (2); Serine-threonine/tyrosine-protein kinase, catalytic domain [IPRO02290] (1); Serine/threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (1)	scaffold_1_mRNA_2384.1	C_unshiu_00210_mRNA_34.1	-
GF0019754	1	1	0	Retrotransposon protein, putative, unclassified (2)		Retrotransposon gag domain [IPRO05162] (2); Retroviral aspartyl protease [IPRO13242] (2); Aspartic peptidase domain [IPRO02109] (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 phosphorylation [GO:0006468 biological_process] (2); protein serine/threonine kinase activity [GO:0004674 molecular_function] (1)	Protein kinase-like domain [IPRO011009] (2); Protein kinase domain [IPRO00719] (2); Serine-threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (1); Serine-threonine/tyrosine-protein kinase, catalytic domain [IPRO02290] (1); S-receptor-like serine/threonine-protein kinase [IPRO02417] (1); Concanavalin A-like lectin/glucanase domain [IPRO13320] (1)	scaffold_1_mRNA_2270.1	C_unshiu_01737_mRNA_4.1	-
GF0019749	1	1	0	Hypothetical protein (1); RNA-directed DNA polymerase (Reverse transcriptase), Ribonuclease H (1)		Reverse transcriptase domain [IPRO04477] (1)	scaffold_1_mRNA_2267.1	C_unshiu_00274_mRNA_33.1	-
GF0019748	1	1	0	Hypothetical protein (2)		EF-hand domain [IPRO02048] (2); EF-Hand 1, calcium-binding site [IPRO18247] (2); EF-hand domain pair [IPRO11992] (2); Protein kinase-like domain [IPRO11009] (1)	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)		scaffold_1_mRNA_2248.1	C_unshiu_00274_mRNA_18.1	-
GF0019745	1	1	0	Hypothetical protein (2)		Zinc knuckle CX2CX4HXAC [IPRO25836] (2); Domain of unknown function DUF4283 [IPRO25558] (2)	scaffold_1_mRNA_2247.1	C_unshiu_00274_mRNA_17.1	-
GF0019744	1	1	0	Hypothetical protein (2)		Reverse transcriptase domain [IPRO04477] (2)	scaffold_1_mRNA_2245.1	C_unshiu_00274_mRNA_14.1	-
GF0019743	1	1	0	Hypothetical protein (2)		Reverse transcriptase domain [IPRO04477] (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 [IPRO02156] (2); Ribonuclease H-like domain [IPRO12337] (2); Reverse transcriptase zinc-binding domain [IPRO26960] (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 protein 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 glycoprotein domain [IPRO00858] (2); Bulb-type lectin domain [IPRO01480] (2); Serine-threonine/tyrosine-protein kinase, catalytic domain [IPRO01245] (1); Serine/threonine-protein kinase, active site [IPRO08271] (1); Protein kinase domain [IPRO00719] (1); Protein kinase-like domain [IPRO11009] (1)	scaffold_1_mRNA_2229.1	C_unshiu_00369_mRNA_42.1	-
GF0019737	1	1	0	Hypothetical protein (2)		FBP domain [IPRO06566] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); F-box domain [IPRO1810] (1)	scaffold_1_mRNA_2194.1	C_unshiu_00137_mRNA_29.1	-
GF0019735	1	1	0	Hypothetical protein (1); FBD-associated F-box protein At4g10400 (1)	protein binding [GO:0005515 molecular_function] (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 [IPRO12337] (2); Ribonuclease H domain [IPRO02156] (2)	scaffold_1_mRNA_2170.1	C_unshiu_00137_mRNA_48.1	-
GF0019733	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPRO12337] (1)	scaffold_1_mRNA_2157.1	C_unshiu_00993_mRNA_8.1	-
GF0019731	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (1)	Ribonuclease H-like domain [IPRO12337] (1)	scaffold_1_mRNA_2152.1	C_unshiu_00822_mRNA_8.1	-
GF0019730	1	1	0	F-box and associated interaction domains-containing protein (1); Hypothetical protein (1); Ubiquitin carboxyl-terminal hydrolase 12 (1)	protein binding [GO:0005515 molecular_function] (2)	F-box domain [IPRO01810] (2); WD40/YVTN repeat-like-containing domain [IPRO15943] (1)	scaffold_1_mRNA_2150.1	C_unshiu_01676_mRNA_4.1	-
GF0019729	1	1	0	Hypothetical protein (2)	protein binding [GO:0005515 molecular_function] (2)	TRAF-like domain [IPRO09747] (2); MATH/TRAF domain [IPRO02083] (2)	scaffold_1_mRNA_2119.1	C_unshiu_00187_mRNA_33.1	-
GF0019728	1	1	0	Hypothetical protein (2)			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 1 superfamily protein, putative (1); Hypothetical protein (1)		Endonuclease/exonuclease/phosphatase [IPRO15153] (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 [IPRO01841] (2); Zinc finger, RING-FYVE/PHD-type [IPRO13083] (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)			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 [IPRO02182] (2); AAA+ ATPase domain [IPRO03593] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO027417] (2); Leucine-rich repeat domain, L domain-like [IPRO32675] (2); Winged helix-turn-helix DNA-binding domain [IPRO11991] (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 phosphorylation [GO:0006468 biological_process] (2); protein kinase activity [GO:0004672 molecular_function] (2)	Protein kinase-like domain [IPRO011009] (2); Protein kinase domain [IPRO00719] (2); Serine/threonine-protein kinase, active site [IPRO08271] (2); Protein kinase, ATP binding site [IPRO17441] (2); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPRO02290] (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)	Legume lectin domain [IPRO01220] (2); Concanavalin A-like lectin/glucanase domain [IPRO13320] (2); Lectin [IPRO16363] (1); Legume lectin [IPRO16363] (1)	scaffold_1_mRNA_2037.1	C_unshiu_00044_mRNA_48.1	-
GF0019715	1	1	0	Early nodulin-like protein 2 (2)	electron carrier activity [GO:0009055 molecular_function] (2)	Cupredoxin [IPRO08922] (2); Phycocyanin domain [IPRO03245] (2)	scaffold_1_mRNA_2022.1	C_unshiu_00044_mRNA_62.1	-
GF0019711	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_2010.1	C_unshiu_00247_mRNA_35.1	-
GF0019710	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1995.1	C_unshiu_00035_mRNA_48.1	-
GF0019708	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1986.1	C_unshiu_00035_mRNA_60.1	-
GF0019707	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1985.1	C_unshiu_00035_mRNA_61.1	-
GF0019706	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1984.1	C_unshiu_00035_mRNA_62.1	-
GF0019704	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1970.1	C_unshiu_00035_mRNA_75.1	-
GF0019703	1	1	0	Glycoside hydrolase family 79 amino-terminal domain protein (2)	membrane [GO:0016020 cellular_component] (2); hydrolase activity, acting on glycosyl bonds [GO:0016798 molecular_function] (2); carbohydrate metabolic process [GO:0005975 biological_process] (1)	Glycoside hydrolase superfamily [IPRO17853] (2); Glycoside hydrolase, family 79 [IPRO05199] (2); Glycoside hydrolase, catalytic domain [IPRO13781] (1)	scaffold_1_mRNA_1971.1	C_unshiu_00005_mRNA_97.1	-
GF0019702	1	1	0	NBS-LRR class resistance protein Fy1-Ry1 (2)	ADP binding [GO:0043531 molecular_function] (2)	P-loop containing nucleoside triphosphate hydrolase [IPRO027417] (2); NB-ARC [IPRO02182] (2); Winged helix-turn-helix DNA-binding domain [IPRO11991] (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 [IPRO02182] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO027417] (2); Winged helix-turn-helix DNA-binding domain [IPRO11991] (1)	scaffold_1_mRNA_1967.1	C_unshiu_00035_mRNA_78.1	-
GF0019700	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1964.1	C_unshiu_00648_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)		Probable transposase, Pta/Eta/Spm, plant [IPRO04252] (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. clementiae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementiae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF001962	1	1	0	Hypothetical protein (2)	ADP binding [GO:004353] 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); NR-ARC [IPR002182] (2); Integrase, catalytic core domain [IPR01584] (1); Ribonuclease H-like domain [IPR012337] (1)	scaffold_1_mRNA_1926.1	C.unshiu_00452_mRNA_17.1	-
GF001961	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1925.1	C.unshiu_00452_mRNA_18.1	-
GF001960	1	1	0	Hypothetical protein (2)		Harbinger transposase-derived nuclease domain [IPR027806] (2)	scaffold_1_mRNA_1917.1	C.unshiu_00452_mRNA_23.1	-
GF001969	1	1	0	Cytokinin riboside 5'-monophosphate phosphoribohydrolase (2)		LOG family [IPR031100] (2); Cytokinin riboside 5'-monophosphate phosphoribohydrolase LOG [IPR005269] (2)	scaffold_1_mRNA_1914.1	C.unshiu_00452_mRNA_25.1	-
GF001968	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_191.1	C.unshiu_00852_mRNA_13.1	-
GF001967	1	1	0	NO APICAL MERISTEM (2)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (2); phosphotransferase activity, alcohol group as acceptor [GO:0016773 molecular_function] (2); DNA binding [GO:0003677 molecular_function] (2)	NAC domain [IPR003441] (2); Carbohydrate/puine kinase, PkB, conserved site [IPR002173] (2)	scaffold_1_mRNA_1909.1	C.unshiu_00282_mRNA_2.1	-
GF001966	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1906.1	C.unshiu_00282_mRNA_5.1	-
GF001964	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1894.1	C.unshiu_00282_mRNA_17.1	-
GF001963	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1885.1	C.unshiu_00108_mRNA_31.1	-
GF001962	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1877.1	C.unshiu_00108_mRNA_20.1	-
GF001960	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1856.1	C.unshiu_01127_mRNA_4.1	-
GF001967	1	1	0	Hypothetical protein (2)		Trichome birefringence-like family [IPR02982] (2); PMRS N-terminal domain [IPR025846] (2); PC-Esterase [IPR026571] (2)	scaffold_1_mRNA_1836.1	C.unshiu_00288_mRNA_3.1	-
GF001968	1	1	0	Ferredoxinase (2)		PC-Esterase [IPR026571] (2); Trichome birefringence-like family [IPR02982] (2)	scaffold_1_mRNA_1834.1	C.unshiu_00288_mRNA_5.1	-
GF001967	1	1	0	Lipid transfer protein 2 (2)	lipid binding [GO:0008289 biological_function] (2); lipid transport [GO:0006869 biological_process] (2)	Plant lipid transfer protein/Par allergen [IPR005258] (2); Bifunctional inhibitor/plant lipid transfer/protein storage helical domain [IPR016140] (2)	scaffold_1_mRNA_1818.1	C.unshiu_01700_mRNA_5.1	-
GF001966	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF1985 [IPR15410] (2)	scaffold_1_mRNA_1815.1	C.unshiu_01700_mRNA_8.1	-
GF001965	1	1	0	Hypothetical protein (2)		Transposase, MuDR, plant [IPR004332] (2)	scaffold_1_mRNA_1814.1	C.unshiu_01700_mRNA_10.1	-
GF001963	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1810.1	C.unshiu_00426_mRNA_19.1	-
GF001961	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 [IPR03653] (2)	scaffold_1_mRNA_1806.1	C.unshiu_00426_mRNA_22.1	-
GF001960	1	1	0	Caffeic acid 3-O-methyltransferase (1); Caffeate O-methyltransferase (1)	O-methyltransferase activity [GO:0008171 molecular_function] (2); methyltransferase activity [GO:0008168 molecular_function] (2)	Winged helix-turn-helix DNA-binding domain [IPR011991] (2); O-methyltransferase, family 2 [IPR010107] (2); O-methyltransferase COMT-type [IPR014651] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (2)	scaffold_1_mRNA_1799.1	C.unshiu_00426_mRNA_25.1	-
GF001959	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1798.1	C.unshiu_00426_mRNA_26.1	-
GF001958	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1792.1	C.unshiu_01098_mRNA_5.1	-
GF001957	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4219 [IPR025314] (2)	scaffold_1_mRNA_1790.1	C.unshiu_01098_mRNA_3.1	-
GF001956	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1780.1	C.unshiu_00694_mRNA_4.1	-
GF001955	1	1	0	Hypothetical protein (2)		Domain of unknown function DUF4371 [IPR025398] (2)	scaffold_1_mRNA_1777.1	C.unshiu_00694_mRNA_8.1	-
GF001954	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1771.1	C.unshiu_00694_mRNA_14.1	-
GF001953	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1770.1	C.unshiu_02477_mRNA_3.1	-
GF001952	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1769.1	C.unshiu_00022_mRNA_3.1	-
GF001951	1	1	0	Hypothetical protein (2)		Transposase, MuDR, plant [IPR004332] (2)	scaffold_1_mRNA_1762.1	C.unshiu_00944_mRNA_4.1	-
GF001950	1	1	0	Hypothetical protein (2)		Winged helix-turn-helix DNA-binding domain [IPR011991] (2); O-methyltransferase, family 2 [IPR010107] (2); O-methyltransferase COMT-type [IPR014651] (2); S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (2)	scaffold_1_mRNA_1761.1	C.unshiu_00944_mRNA_3.1	-
GF001949	1	1	0	Hypothetical protein (2)		Peptidase S24S26A/S26B/S26C [IPR015927] (2); Aldo keto reductase, conserved site [IPR018170] (2); NADP-dependent oxidoreductase domain [IPR023210] (2); Aldo keto reductase/potassium channel subunit beta [IPR01395] (1)	scaffold_1_mRNA_1758.1	C.unshiu_00770_mRNA_2.1	-
GF001948	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1757.1	C.unshiu_01217_mRNA_3.1	-
GF001947	1	1	0	Hypothetical protein (2)	oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2)	Aldo keto reductase, conserved site [IPR018170] (2); NADP-dependent oxidoreductase domain [IPR023210] (2); Aldo keto reductase/potassium channel subunit beta [IPR01395] (1); Aldo keto reductase [IPR020471] (1)	scaffold_1_mRNA_1752.1	C.unshiu_01217_mRNA_6.1	-
GF001946	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1750.1	C.unshiu_01217_mRNA_8.1	-
GF001945	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1740.1	C.unshiu_00455_mRNA_22.1	-
GF001943	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1739.1	C.unshiu_00455_mRNA_20.1	-
GF001942	1	1	0	Hypothetical protein (2)	iron ion binding [GO:0005506 molecular_function] (2); L-ascorbic acid binding [GO:0031418 molecular_function] (2); oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen [GO:0016705 molecular_function] (2); oxidoreductase activity [GO:0016491 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2)	Proyl 4-hydroxylase, alpha subunit [IPR006620] (2); Oxoglutarate/iron-dependent dioxygenase [IPR005123] (2)	scaffold_1_mRNA_1732.1	C.unshiu_00455_mRNA_11.1	-
GF001941	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1731.1	C.unshiu_00455_mRNA_10.1	-
GF001940	1	1	0	Hypothetical protein (2)		Leucine-rich repeat domain, L domain-like [IPR032975] (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); Bulb-type lectin domain [IPR001480] (1); Serine/threonine/tyrosine-protein kinase catalytic domain [IPR01245] (1); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPR001245] (1)	scaffold_1_mRNA_1730.1	C.unshiu_00071_mRNA_41.1	-
GF001939	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1716.1	C.unshiu_00071_mRNA_37.1	-
GF001938	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1714.1	C.unshiu_00071_mRNA_35.1	-
GF001937	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1713.1	C.unshiu_00071_mRNA_34.1	-
GF001936	1	1	0	Hypothetical protein (2)	nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPR012337] (2)	scaffold_1_mRNA_1712.1	C.unshiu_00071_mRNA_33.1	-
GF001935	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1707.1	C.unshiu_00071_mRNA_28.1	-
GF001934	1	1	0	Pre-mRNA-splicing factor SPF27 (2)	mRNA processing [GO:0006397 biological_process] (2)	Pre-mRNA-splicing factor SPF27 [IPR008409] (2)	scaffold_1_mRNA_1705.1	C.unshiu_00071_mRNA_26.1	-
GF001933	1	1	0	Hypothetical protein (2)	protein dimerization activity [GO:0046083 molecular_function] (2); nucleic acid binding [GO:0003676 molecular_function] (2); DNA binding [GO:0003677 molecular_function] (2)	HAT, C-terminal dimerisation domain [IPR008986] (2); Ribonuclease H-like domain [IPR012337] (2); HAT-like transposase, RNase-H fold [IPR025525] (2)	scaffold_1_mRNA_1702.1	C.unshiu_00071_mRNA_24.1	-
GF001932	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1701.1	C.unshiu_00071_mRNA_23.1	-
GF001931	1	1	0	Hypothetical protein (2)		Transposase-associated domain [IPR029480] (2)	scaffold_1_mRNA_1693.1	C.unshiu_00071_mRNA_14.1	-
GF001930	1	1	0	66 kDa stress protein (2)	protein binding [GO:0005515 molecular_function] (2)	WD40-repeat-containing domain [IPR017986] (2); WD40 repeat [IPR01640] (2); WD40 repeat conserved site [IPR019775] (2); WD40/YVTN repeat-like-containing domain [IPR015943] (2)	scaffold_1_mRNA_1689.1	C.unshiu_00071_mRNA_10.1	-
GF001929	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1684.1	C.unshiu_00071_mRNA_4.1	-
GF001928	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1673.1	C.unshiu_00097_mRNA_45.1	-
GF001927	1	1	0	Hypothetical protein (2)		Tetratricopeptide-like helical domain [IPR011990] (2); Pentatricopeptide repeat [IPR008851] (2); Expansion/pollen allergen, DPBB domain [IPR007112] (1); RipA-like protein, double-psi beta-barrel domain [IPR009009] (1)	scaffold_1_mRNA_1670.1	C.unshiu_00097_mRNA_47.1	-
GF001926	1	1	0	Hypothetical protein (2)		Retroviral integrase domain [IPR005162] (2)	scaffold_1_mRNA_1667.1	C.unshiu_02271_mRNA_2.1	-
GF001925	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	-
GF001924	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1653.1	C.unshiu_00750_mRNA_4.1	-
GF001923	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1644.1	C.unshiu_00462_mRNA_5.1	-
GF001922	1	1	0	Hypothetical protein (2)			scaffold_1_mRNA_1643.1	C.unshiu_00462_mRNA_6.1	-
GF001921	1	1	0	Hypothetical protein (2)	trehalose biosynthetic process [GO:000592 biological_process] (2); catalytic activity [GO:0003824 molecular_function] (2)	Trehalose phosphorylase [IPR003337] (2); HAD-like 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. uschii</i>	Num in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. uschii</i>	Members in <i>P. trifoliata</i>
GF0018835	1	2	0	Cyclic nucleotide-gated ion channel 1 (3)		Cyclic nucleotide-binding domain [IPRO0595] (3); Beta-like jelly roll fold [IPRO14710] (3); Cyclic nucleotide-binding-like [IPRO18490] (3)	scaffold_9_mRNA_3703.1	C.uschii_00740_mRNA_6.1.C.uschii_00740_mRNA_9.1	
GF0018605	1	2	0	Hypothetical protein (3)		Viral movement protein [IPRO28919] (3)	scaffold_9_mRNA_3352.1	C.uschii_00017_mRNA_59.1.C.uschii_01110_mRNA_2.1	
GF0018511	1	2	0	Hypothetical protein (3)			scaffold_9_mRNA_3128.1	C.uschii_00577_mRNA_1.1.C.uschii_02129_mRNA_3.1	
GF0018445	1	2	0	Ozone-responsive stress related protein (2); Hypothetical protein (1)		Protein of unknown function DUF1138 [IPRO09515] (3)	scaffold_9_mRNA_2993.1	C.uschii_00574_mRNA_14.1.C.uschii_00574_mRNA_3.1	
GF0018443	1	2	0	DUF642 family protein (3)		Galactose-binding domain-like [IPRO08979] (3); Domain of unknown function DUF642 [IPRO06946] (3)	scaffold_9_mRNA_2989.1	C.uschii_01689_mRNA_3.1.C.uschii_02440_mRNA_2.1	
GF0018427	1	2	0	CDP-diacylglycerol-inositol 3-phosphatidylinositol transferase (3)	phospholipid biosynthetic process [GO:0008654 biological_process] (3); membrane [GO:0016020 cellular_component] (3); phosphotransferase activity, for other substituted phosphate groups [GO:0016780 molecular_function] (3)	CDP-diacylglycerol-inositol 3-phosphatidylinositol transferase, eukaryote [IPRO14387] (3); CDP-alcohol phosphatidylinositol transferase [IPRO00462] (3)	scaffold_9_mRNA_2905.1	C.uschii_00132_mRNA_7.1.C.uschii_02260_mRNA_1.1	
GF0018392	1	2	0	MuDR family transposase isoform 1 (2); Putative muDR family transposase-like (1)	MuDR family transposase isoform 1 (2); transposase activity [GO:0004803 molecular_function] (3); transposition, DNA-mediated [GO:0006513 biological_process] (3); zinc ion binding [GO:0008270 molecular_function] (1)	MULE transposase domain [IPRO18289] (3); Transposase, MuDR, plant [IPRO04332] (3); Transposase, mutator type [IPRO02107] (3); Zinc finger, SWIM-type [IPRO07527] (1); Zinc finger, BED-type [IPRO03650] (1); Zinc finger, PMZ-type [IPRO06564] (1)	scaffold_9_mRNA_2778.1	C.uschii_01023_mRNA_1.1.C.uschii_01118_mRNA_1.1	
GF0018373	1	2	0	Zinc knuckle family protein (3)	zinc ion binding [GO:0008270 molecular_function] (3); nucleic acid binding [GO:0003676 molecular_function] (3)	Zinc finger, CCHC-type [IPRO01878] (3)	scaffold_9_mRNA_2717.1	C.uschii_00292_mRNA_34.1.C.uschii_00324_mRNA_8.1	
GF0018309	1	2	0	Cytochrome P450 (3)	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, conserved site [IPRO17972] (3); Cytochrome P450, E-class, group 1 [IPRO02401] (3); Cytochrome P450 [IPRO01128] (3)	scaffold_9_mRNA_2521.1	C.uschii_00345_mRNA_14.1.C.uschii_01737_mRNA_5.1	
GF0018307	1	2	0	Hypothetical protein (3)			scaffold_9_mRNA_2506.1	C.uschii_00755_mRNA_7.1.C.uschii_01500_mRNA_2.1	
GF0018295	1	2	0	Hypothetical protein (3)			scaffold_9_mRNA_2456.1	C.uschii_00011_mRNA_74.1.C.uschii_02904_mRNA_4.1	
GF0018282	1	2	0	Hypothetical protein (3)			scaffold_9_mRNA_2394.1	C.uschii_01098_mRNA_4.1.C.uschii_01106_mRNA_11.1	
GF0018204	1	2	0	Hypothetical protein (3)			scaffold_9_mRNA_2043.1	C.uschii_00385_mRNA_11.1.C.uschii_01691_mRNA_3.1	
GF0018109	1	2	0	Hypothetical protein (3)			scaffold_9_mRNA_1758.1	C.uschii_00106_mRNA_24.1.C.uschii_00629_mRNA_9.1	
GF0018095	1	2	0	Hypothetical protein (2); Ta11 non-LTR retroelement protein-like (1)		Domain of unknown function DUF4283 [IPRO25558] (3); Zinc knuckle CX2CX4HX4C [IPRO25836] (1)	scaffold_9_mRNA_1700.1	C.uschii_00032_mRNA_42.1.C.uschii_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)	FAR1 DNA binding domain [IPRO04330] (3); FHY3/FAR1 family [IPRO31052] (3); MULE transposase domain [IPRO18289] (2)	scaffold_9_mRNA_1669.1	C.uschii_00294_mRNA_12.1.C.uschii_01009_mRNA_9.1	
GF0018077	1	2	0	Transposon protein, putative, unclassified (2); FOG; Transposon-encoded protein 0 with TTA, 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 [IPRO01878] (3)	scaffold_9_mRNA_1622.1	C.uschii_00586_mRNA_4.1.C.uschii_01107_mRNA_11.1	
GF0018067	1	2	0	UBX domain protein (3)	protein binding [GO:0005515 molecular_function] (3)	UBA-like [IPRO09060] (3); UAS [IPRO06577] (3); Thioredoxin-like fold [IPRO12336] (3); UBX domain [IPRO01012] (2); Ubiquitin-related domain [IPRO29071] (2); UBX domain-containing protein 27 [IPRO17346] (2)	scaffold_9_mRNA_1582.1	C.uschii_01176_mRNA_7.1.C.uschii_02187_mRNA_2.1	
GF0018057	1	2	0	Hypothetical protein (3)			scaffold_9_mRNA_1511.1	C.uschii_00122_mRNA_19.1.C.uschii_01255_mRNA_9.1	
GF0018052	1	2	0	Hypothetical protein (2); Monosaccharide transport protein (1)		MULE transposase domain [IPRO18289] (3)	scaffold_9_mRNA_1505.1	C.uschii_00028_mRNA_46.1.C.uschii_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 [IPRO04159] (3); S-adenosyl-L-methionine-dependent methyltransferase [IPRO29063] (3)	scaffold_9_mRNA_1459.1	C.uschii_00131_mRNA_9.2.C.uschii_00551_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 [IPRO11009] (3); Protein kinase domain [IPRO00719] (3); Protein kinase, ATP binding site [IPRO17441] (3); Serine-threonine-protein kinase, active site [IPRO08271] (3); Serine-threonine/tyrosine-protein kinase catalytic domain [IPRO01245] (2); Serine-threonine/dual specificity protein kinase, catalytic domain [IPRO02290] (2); Serine-threonine/tyrosine-protein kinase, catalytic domain [IPRO01245] (1)	scaffold_9_mRNA_1363.1	C.uschii_00057_mRNA_6.1.C.uschii_00344_mRNA_29.1	
GF0018010	1	2	0	Hypothetical protein (3)	protein binding [GO:0005515 molecular_function] (3)	PB1 domain [IPRO00270] (3)	scaffold_9_mRNA_1362.1	C.uschii_00057_mRNA_7.1.C.uschii_00344_mRNA_30.1	
GF0017888	1	2	0	Hypothetical protein (3)			scaffold_8_mRNA_953.1	C.uschii_00203_mRNA_4.1.C.uschii_02725_mRNA_4.1	
GF0017883	1	2	0	Pentatricopeptide (PPR) repeat protein (3)	protein binding [GO:0005515 molecular_function] (2)	Pentatricopeptide repeat [IPRO02885] (3); Tetra- or pentapeptide-like helical domain [IPRO11990] (2)	scaffold_8_mRNA_946.1	C.uschii_01262_mRNA_1.1.C.uschii_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 autoinhibitory domain [IPRO24790] (3)	scaffold_8_mRNA_877.1	C.uschii_01185_mRNA_5.1.C.uschii_02065_mRNA_4.1	
GF0017822	1	2	0	Pectinesterase 31 (3)	cell wall modification [GO:0042545 biological_process] (3); cell wall [GO:0005618 cellular_component] (3); pectinesterase activity [GO:0003059 molecular_function] (3)	Pectin lyase fold/vincetoxin factor [IPRO11050] (3); Pectinesterase, catalytic [IPRO00070] (3); Pectin lyase fold [IPRO12334] (3)	scaffold_8_mRNA_796.1	C.uschii_01962_mRNA_1.1.C.uschii_02198_mRNA_1.1	
GF0017803	1	2	0	Hypothetical protein (3)			scaffold_8_mRNA_758.1	C.uschii_00085_mRNA_5.1.C.uschii_02763_mRNA_1.1	
GF0017791	1	2	0	DUF241 domain protein (3)		Protein of unknown function DUF241, plant [IPRO04320] (3)	scaffold_8_mRNA_72.1	C.uschii_00041_mRNA_14.1.C.uschii_00041_mRNA_16.1	
GF0017668	1	2	0	Family protein (2); Hypothetical protein (1)		Uncharacterised protein family, basic secretory protein [IPRO07541] (3)	scaffold_8_mRNA_398.1	C.uschii_00363_mRNA_9.1.C.uschii_02320_mRNA_3.1	
GF0017431	1	2	0	ATP synthase subunit epsilon (3)			scaffold_8_mRNA_2981.1	C.uschii_00375_mRNA_17.1.C.uschii_00571_mRNA_5.1	
GF0017430	1	2	0	Palmitoyltransferase (2); Hypothetical protein (1)	zinc ion binding [GO:0008270 molecular_function] (2)	Zinc finger, DHHC-type, palmitoyltransferase [IPRO01594] (2); Palmitoyltransferase, DHHC domain [IPRO01594] (1)	scaffold_8_mRNA_2978.1	C.uschii_00375_mRNA_20.1.C.uschii_00571_mRNA_8.1	
GF0017218	1	2	0	Hypothetical protein (3)	metabolic process [GO:0008152 biological_process] (1); transferase activity, transferring hexosyl groups [GO:0016758 molecular_function] (1)	UDP-glucuronosyl UDP-glucosyltransferase [IPRO02213] (1)	scaffold_8_mRNA_2576.1	C.uschii_00320_mRNA_24.1.C.uschii_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] (1); zinc ion binding [GO:0008270 molecular_function] (1)	Zinc knuckle CX2CX4HX4C [IPRO25836] (3); Domain of unknown function DUF283 [IPRO25558] (3); Zinc finger, CCHC-type [IPRO01878] (1)	scaffold_8_mRNA_2543.1	C.uschii_00055_mRNA_8.1.C.uschii_02387_mRNA_1.1	
GF0017148	1	2	0	Hypothetical protein (3)			scaffold_8_mRNA_2380.1	C.uschii_00479_mRNA_17.1.C.uschii_00894_mRNA_1.1	
GF0017080	1	2	0	Putative metal tolerance protein 4-like (3)	transmembrane transport [GO:0055085 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)	Cation efflux protein [IPRO02534] (3); Cation efflux protein transmembrane domain [IPRO27469] (2)	scaffold_8_mRNA_2197.1	C.uschii_00413_mRNA_19.1.C.uschii_01166_mRNA_3.1	
GF0017059	1	2	0	Ribosomal protein L15 (3)	protein binding [GO:0005515 molecular_function] (1)	Pentatricopeptide repeat [IPRO02885] (3); Tetra- or pentapeptide-like helical domain [IPRO11990] (1)	scaffold_8_mRNA_2134.1	C.uschii_00693_mRNA_11.1.C.uschii_00940_mRNA_1.1	
GF0017037	1	2	0	Hypothetical protein (3)			scaffold_8_mRNA_2003.1	C.uschii_00360_mRNA_4.1.C.uschii_01649_mRNA_1.1	
GF0017033	1	2	0	Hypothetical protein (2); Retrotransposon protein, putative, Ty3-gypsy subclass (1)	DNA integration [GO:0015074 biological_process] (2); nucleic acid binding [GO:0003676 molecular_function] (2)	Ribonuclease H-like domain [IPRO12337] (2); Integrase, catalytic core [IPRO01584] (2); Aspartic peptidase domain [IPRO1109] (1)	scaffold_8_mRNA_1993.1	C.uschii_00087_mRNA_24.1.C.uschii_01302_mRNA_6.1	
GF0017029	1	2	0	Hypothetical protein (3)	aspartic-type endopeptidase activity [GO:0004190 molecular_function] (1); proteolysis [GO:0006508 biological_process] (1)	Aspartic peptidase, active site [IPRO01969] (1); Retropepsin [IPRO18061] (1); Aspartic peptidase domain [IPRO21109] (1)	scaffold_8_mRNA_1984.1	C.uschii_00222_mRNA_6.1.C.uschii_00527_mRNA_26.1	
GF0017026	1	2	0	Hypothetical protein (3)			scaffold_8_mRNA_1973.1	C.uschii_00811_mRNA_4.1.C.uschii_02435_mRNA_2.1	
GF0016998	1	2	0	Hypothetical protein (3)	proteolysis [GO:0006508 biological_process] (1); aspartic-type endopeptidase activity [GO:0004190 molecular_function] (1)	Aspartic peptidase domain [IPRO21109] (3); Aspartic peptidase, active site [IPRO01969] (1)	scaffold_8_mRNA_1821.1	C.uschii_01216_mRNA_5.1.C.uschii_01419_mRNA_5.1	

ID	Num. in <i>C. celerata</i>	Num. in <i>C. acinosa</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. celerata</i>	Members in <i>C. acinosa</i>	Members in <i>P. trifoliata</i>
GF0016973	1	2	0	Hypothetical protein (3)		Domain of unknown function DUF4219 [IPR025314] (3)	scaffold_8_mRNA_1746.1	C. unshiu_00101_mRNA_39.1,C. unshiu_00213_mRNA_57.1	
GF0016952	1	2	0	BED zinc finger/AT family dimerization domain (2); Transposable element Ac (1)	protein dimerization activity [GO:0046983 molecular_function] (3); nucleic acid binding [GO:0003676 molecular_function] (3); DNA binding [GO:0003677 molecular_function] (1)	HAT, C-terminal dimerization domain [IPR008906] (3); Ribonuclease H-like domain [IPR012337] (3); HAT-like transposase, RNase-H fold [IPR025252] (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_01051_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_01081_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_00859_mRNA_11.1,C. unshiu_01482_mRNA_3.1	
GF0016882	1	2	0	Hypothetical protein (3)			scaffold_8_mRNA_1260.1	C. unshiu_02076_mRNA_2.1,C. unshiu_02519_mRNA_1.1	
GF0016872	1	2	0	Lectin (3)	carbohydrate binding [GO:0030246 molecular_function] (3)	Legume lectin, alpha chain, conserved site [IPR008953] (3); Legume lectin domain [IPR011220] (3); Concanavalin A-like lectin/glucanase domain [IPR013320] (3); Legume lectin [IPR016363] (1); Lectin [IPR016363] (1)	scaffold_8_mRNA_1218.1	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 component of membrane [GO:0016021 cellular_component] (3)	Citrate transporter-like domain [IPR004680] (3)	scaffold_8_mRNA_1207.1	C. unshiu_01085_mRNA_8.1,C. unshiu_02035_mRNA_3.1	
GF0016864	1	2	0	Geraniol 10-hydroxylase (1); Bergamotene oxidase (1); TSA; Wollemia nobilis transcribed RNA sequence (1)	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); iron ion binding [GO:0005506 molecular_function] (3); heme binding [GO:0020037 molecular_function] (3)	Cytochrome P450 [IPR001128] (3); Cytochrome P450, E-class, group I [IPR024011] (1); Reverse transcriptase zinc-binding domain [IPR029660] (1)	scaffold_8_mRNA_1174.1	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)	response to auxin [GO:0009733 biological_process] (3)	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)	response to auxin [GO:0009733 biological_process] (3)	Small auxin-up RNA [IPR003676] (3)	scaffold_8_mRNA_1041.1	C. unshiu_00649_mRNA_16.1,C. unshiu_01573_mRNA_13.1	
GF0016818	1	2	0	Retrosposon gag protein (2); Hypothetical protein (1)		Retrosposon gag domain [IPR005162] (3)	scaffold_8_mRNA_1035.1	C. unshiu_00956_mRNA_11.1,C. unshiu_01859_mRNA_3.1	
GF0016815	1	2	0	Hypothetical protein (3)		PN domain-like [IPR020660] (2); Phosphoribosyltransferase-like [IPR029057] (1); NYN domain, linkain-b1-type [IPR021139] (1)	scaffold_8_mRNA_1025.1	C. unshiu_00455_mRNA_3.1,C. unshiu_02125_mRNA_2.1	
GF0016764	1	2	0	Hypothetical protein (3)	peptide-methionine (R)-S-oxide reductase activity [GO:0037343 molecular_function] (2); oxidation-reduction process [GO:0055114 biological_process] (2)	Mso4-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_02333_mRNA_5.1	
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, LisH dimerization motif [IPR027370] (3); CTLH-CRA C-terminal to LisH motif domain [IPR024964] (3); Zinc finger, RING-type [IPR018411] (3); Zinc finger, RING-FYVE/PHD-type [IPR013083] (3); CTLH, C-terminal LisH motif [IPR006951] (3); CRA domain [IPR013144] (3); LIS1 homology motif [IPR006594] (3); Rmt5 [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, hydrolyzing O-glycosyl compounds [GO:0004553 molecular_function] (3); carbohydrate metabolic process [GO:0005975 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 CXX2YKRAE [IPR025836] (3); Domain of unknown function DUF4283 [IPR025558] (3)	scaffold_7_mRNA_572.1	C. unshiu_00136_mRNA_36.1,C. unshiu_02688_mRNA_1.1	
GF0016507	1	2	0	Polypeptide with an integrase domain (1); Hypothetical protein (1); Potato DNA for copia-like transposable element (1)	nucleic acid binding [GO:0003676 molecular_function] (3); DNA integration [GO:0015074 biological_process] (3)	Ribonuclease H-like domain [IPR012337] (3); Integrase, catalytic core [IPR01584] (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)		Reticulon [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 [IPR000731] (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); TCP-1/cpn60 chaperonin family protein (1)	ATP binding [GO:0005524 molecular_function] (3); unfolded protein binding [GO:0051082 molecular_function] (2); protein folding [GO:0006457 biological_process] (2)	(2); T-complex protein 1, gamma subunit [IPR012719] (2); Chaperone tailless complex polypeptide 1 (TCP-1) [IPR017998] (3); Chaperonin TCP-1, conserved site [IPR002194] (2); TCP-1-like chaperonin intermediate domain [IPR027410] (1)	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 bZIP24 (1)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (3); sequence-specific DNA binding [GO:0004356 molecular_function] (3); transcription factor activity, sequence-specific DNA binding [GO:0003700 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:0043531 molecular_function] (1)	Leucine-rich repeat domain, I domain-like [IPR032675] (3); Winged helix-tandem helix DNA-binding domain [IPR011991] (1); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (1); NB-ARC [IPR002182] (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:0004672 molecular_function] (2); ATP binding [GO:0005524 molecular_function] (1)	Bull-type lectin domain [IPR001480] (3); Protein kinase-like domain [IPR011090] (2); Protein kinase domain [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] (1)	UDP-glucuronosyl/UDP-glucosyltransferase [IPR002213] (1)	scaffold_7_mRNA_2213.1	C. unshiu_00040_mRNA_78.1,C. unshiu_00611_mRNA_16.1	
GF0016089	1	2	0	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)			scaffold_7_mRNA_1961.1	C. unshiu_00448_mRNA_22.1,C. unshiu_02045_mRNA_6.1	
GF0016007	1	2	0	Hypothetical protein (3)	nucleic acid binding [GO:0003676 molecular_function] (3)	Ribonuclease H-like domain [IPR012337] (3)	scaffold_7_mRNA_1806.1	C. unshiu_00181_mRNA_23.1,C. unshiu_01698_mRNA_6.1	
GF0015997	1	2	0	Hypothetical protein (2); Phytoalexin receptor (1)	protein binding [GO:0005515 molecular_function] (1)	Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (3); Leucine-rich repeat domain, L domain-like [IPR032675] (2); Leucine-rich repeat [IPR016111] (1); Leucine-rich repeat, typical subtype [IPR003591] (1)	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 1-S2 (3)	protein binding [GO:0005515 molecular_function] (3)	F-box associated interaction domain [IPR017451] (3); F-box domain [IPR001810] (3); Ketch-type beta propeller [IPR015915] (1)	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 1-S2 (2); Class S F-box protein (1)	protein binding [GO:0005515 molecular_function] (3)	Galactose oxidase/kech, beta-propeller [IPR011043] (3); F-box associated interaction domain [IPR013451] (3); F-box domain [IPR001810] (3); F-box associated domain, type 3 [IPR013187] (3)	scaffold_7_mRNA_156.1	C. unshiu_00073_mRNA_9.1,C. unshiu_02420_mRNA_1.1	
GF0015953	1	2	0	Calkoyl CoA O-methyltransferase (3)	O-methyltransferase activity [GO:0008171 molecular_function] (3)	O-methyltransferase, family 3 [IPR002953] (3); S-adenosyl-L-methionine-dependent methyltransferase [IPR029063] (3)	scaffold_7_mRNA_1558.1	C. unshiu_01330_mRNA_7.1,C. unshiu_01330_mRNA_8.2	



ID	Num. in <i>C. caryophyllata</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. caryophyllata</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF0013450	1	2	0	Stearoyl-acyl carrier protein desaturase (3)	fatty acid metabolic process [GO:0006031 biological_process] (3); oxidation-reduction process [GO:0055114 biological_process] (3); acyl-acyl-carrier-protein desaturase activity [GO:0045300 molecular_function] (3); oxidoreductase activity [GO:0016491 molecular_function] (2)	Fatty acid desaturase, type 2 [IPRO05067] (3); Ferritin-like superfamily [IPRO09078] (3); Ribonucleotide reductase-related [IPRO12348] (2)	scaffold_5_mRNA_3940.1	C.usshii_00447_mRNA_24.1.C.usshii_02182_mRNA_3.1	
GF0013449	1	2	0	Eukaryotic translation initiation factor 5B (2); Translation initiation factor IF-2, putative (1)	GTP binding [GO:0005525 molecular_function] (2); GTPase activity [GO:0003924 molecular_function] (2)	Translation protein, beta-barrel domain [IPRO09000] (3); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (3); Translation initiation factor IF-2, domain 3 [IPRO23151] (3); Small GTP-binding protein domain [IPRO05225] (2); Transcription factor, GTP-binding domain [IPRO00795] (2)	scaffold_5_mRNA_3937.1	C.usshii_00447_mRNA_21.1.C.usshii_02182_mRNA_7.1	
GF0013329	1	2	0	Putative retroelement pol polyprotein (2); Hypothetical protein (1)			scaffold_5_mRNA_371.1	C.usshii_00328_mRNA_5.1.C.usshii_01324_mRNA_3.1	
GF0013307	1	2	0	Hypothetical protein (2); Phosphoprotein phosphatase (1)	ADP binding [GO:0044533 molecular_function] (1)	Leucine-rich repeat domain, L domain-like [IPRO26751] (3); NB-ARC [IPRO21821] (2); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (1)	scaffold_5_mRNA_3647.1	C.usshii_00453_mRNA_21.1.C.usshii_00453_mRNA_28.1	
GF0013286	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_3575.1	C.usshii_00244_mRNA_16.1.C.usshii_00782_mRNA_9.1	
GF0013264	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_3447.1	C.usshii_01332_mRNA_4.1.C.usshii_02372_mRNA_3.1	
GF0013257	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_3433.1	C.usshii_00269_mRNA_21.1.C.usshii_00344_mRNA_36.1	
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 [GO:007264 biological_process] (2); membrane [GO:0016020 cellular_component] (2); GTPase activity [GO:0003924 molecular_function] (1); intracellular [GO:0005622 cellular_component] (1)	Small GTPase superfamily [IPRO01806] (3); P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (3); Small GTPase superfamily, Ras type [IPRO20849] (2); Small GTPase superfamily, Rab type [IPRO03579] (2); Small GTP-binding protein domain [IPRO05225] (1); Small GTPase superfamily, Rho type [IPRO03578] (1)	scaffold_5_mRNA_331.1	C.usshii_01174_mRNA_6.1.C.usshii_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 molecular_function] (3); small GTPase mediated signal transduction [GO:007264 biological_process] (2); membrane [GO:0016020 cellular_component] (2); signal transduction [GO:0007165 biological_process] (2); protein transport [GO:0015031 biological_process] (2); intracellular [GO:0005622 cellular_component] (1); GTPase activity [GO:0003924 molecular_function] (1)	P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (2); Small GTPase superfamily [IPRO01806] (3); Small GTPase superfamily, Ras type [IPRO20849] (2); Small GTPase superfamily, Rab type [IPRO03579] (2); Small GTPase superfamily, Rho type [IPRO03578] (1)	scaffold_5_mRNA_328.1	C.usshii_00746_mRNA_7.1.C.usshii_01215_mRNA_14.1	
GF0013185	1	2	0	Amino acid permease family protein (1); Hypothetical protein (1); Neutral amino acid transporter (1)	GTP binding [GO:0005525 molecular_function] (3); amino acid transmembrane transport [GO:0003333 biological_process] (3); membrane [GO:0016020 cellular_component] (3); protein binding [GO:0005515 molecular_function] (1)	Amino acid polyamine transporter 1 [IPRO02292] (3); Ankyrin homology (AH) domain/BAR domain [IPRO27267] (1); SH3 domain [IPRO01452] (1)	scaffold_5_mRNA_3172.1	C.usshii_00809_mRNA_10.1.C.usshii_00961_mRNA_7.1	
GF0013182	1	2	0	LRR receptor-like serine/threonine-protein kinase GSO1 (3)	protein binding [GO:0005515 molecular_function] (3)	Leucine-rich repeat, typical subtype [IPRO03591] (3); Leucine-rich repeat domain, L domain-like [IPRO26751] (3); Leucine-rich repeat [IPRO01611] (3); Leucine-rich repeat-containing N-terminal, plant-type [IPRO13210] (2); SH3 domain [IPRO01452] (1)	scaffold_5_mRNA_3122.1	C.usshii_00888_mRNA_6.1.C.usshii_02001_mRNA_5.1	
GF0013139	1	2	0	Hypothetical protein (3)	protein binding [GO:0005515 molecular_function] (3)	Ankyrin repeat-containing domain [IPRO20683] (3); Ankyrin repeat [IPRO02110] (3)	scaffold_5_mRNA_2983.1	C.usshii_00016_mRNA_3.1.C.usshii_00382_mRNA_1.1	
GF0013039	1	2	0	Hypothetical protein (3)		Retrosposon gag domain [IPRO05162] (1)	scaffold_5_mRNA_2441.1	C.usshii_01665_mRNA_3.1.C.usshii_01989_mRNA_1.1	
GF0012991	1	2	0	Hypothetical protein (3)		Transposon, En/Spm-like [IPRO04242] (1); Probable transposase, Pta/En/Spm, plant [IPRO04252] (1); Domain of unknown function, DU4216 [IPRO25312] (1)	scaffold_5_mRNA_2247.1	C.usshii_00258_mRNA_1.1.C.usshii_01853_mRNA_4.1	
GF0012988	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_2224.1	C.usshii_00111_mRNA_45.1.C.usshii_00464_mRNA_15.1	
GF0012968	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_2149.1	C.usshii_01010_mRNA_30.1.C.usshii_00419_mRNA_18.1	
GF0012956	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_2055.1	C.usshii_00871_mRNA_22.1.C.usshii_00871_mRNA_33.1	
GF0012926	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1937.1	C.usshii_01068_mRNA_19.1.C.usshii_01974_mRNA_2.1	
GF0012921	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1929.1	C.usshii_01841_mRNA_2.1.C.usshii_02592_mRNA_2.1	
GF0012913	1	2	0	Hypothetical protein (3)	regulation of transcription, DNA-templated [GO:0006355 biological_process] (3); DNA binding [GO:0003677 molecular_function] (3)	NAC domain [IPRO03441] (3)	scaffold_5_mRNA_1880.1	C.usshii_00573_mRNA_10.1.C.usshii_00647_mRNA_10.1	
GF0012864	1	2	0	Hypothetical protein (2); Late embryogenesis abundant hydroxyproline-rich glycoprotein, putative (1)		Late embryogenesis abundant protein, LEA-14 [IPRO04864] (3); Immunoglobulin-like fold [IPRO13783] (3)	scaffold_5_mRNA_1708.1	C.usshii_00202_mRNA_9.1.C.usshii_01766_mRNA_2.1	
GF0012844	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1583.1	C.usshii_00174_mRNA_46.1.C.usshii_02392_mRNA_2.1	
GF0012842	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1538.1	C.usshii_00128_mRNA_16.1.C.usshii_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:0020037 molecular_function] (3); response to oxidative stress [GO:0006979 biological_process] (3); hydrogen peroxide catabolic process [GO:0042744 biological_process] (1)	Haem peroxidase [IPRO10255] (3); Peroxidase, active site [IPRO19794] (3); Peroxidase haem-ligand binding site [IPRO19793] (3); Plant peroxidase [IPRO00823] (3); Haem peroxidase, plant/fungal/bacterial [IPRO02016] (3); Secretory peroxidase [IPRO03905] (1)	scaffold_5_mRNA_1449.2	C.usshii_00530_mRNA_2.1.C.usshii_00678_mRNA_16.1	
GF0012806	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1364.1	C.usshii_01675_mRNA_5.1.C.usshii_01952_mRNA_2.1	
GF0012781	1	2	0	Hypothetical protein (3)		Retrosposon gag domain [IPRO05162] (2)	scaffold_5_mRNA_1262.1	C.usshii_00340_mRNA_14.1.C.usshii_00444_mRNA_10.1	
GF0012776	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1227.1	C.usshii_01048_mRNA_3.1.C.usshii_01401_mRNA_4.1	
GF0012775	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1224.1	C.usshii_00160_mRNA_13.1.C.usshii_00160_mRNA_14.1	
GF0012768	1	2	0	NB-ARC domain disease resistance protein (1); NB-ARC domain-containing disease resistance protein (1); LRR and NB-ARC domain-containing disease resistance protein (1)	ADP binding [GO:0044533 molecular_function] (3)	P-loop containing nucleoside triphosphate hydrolase [IPRO27417] (3); NB-ARC [IPRO02182] (3); Leucine-rich repeat domain, L domain-like [IPRO26751] (2)	scaffold_5_mRNA_113.1	C.usshii_00019_mRNA_5.1.C.usshii_00904_mRNA_4.1	
GF0012759	1	2	0	Hypothetical protein (3)	terpene synthase activity [GO:0010333 molecular_function] (3); lyase activity [GO:0016529 molecular_function] (3); metabolic process [GO:0008152 biological_process] (3); nucleic acid binding [GO:0003676 molecular_function] (1)	Terpene synthase, N-terminal domain [IPRO01906] (3); Terpenoid cyclase/protein prenyltransferase alpha-alpha toroid [IPRO09300] (3); Ribonuclease H-like domain [IPRO12337] (1)	scaffold_5_mRNA_1099.1	C.usshii_00825_mRNA_5.1.C.usshii_01139_mRNA_2.1	
GF0012754	1	2	0	Hypothetical protein (3)			scaffold_5_mRNA_1076.1	C.usshii_00240_mRNA_16.1.C.usshii_00685_mRNA_2.1	
GF0012747	1	2	0	Hypothetical protein (2); Putative Ty3-gypsy-like retroelement pol polyprotein (1)	DNA integration [GO:0015074 biological_process] (1); nucleic acid binding [GO:0003676 molecular_function] (1)	Integrase, catalytic core [IPRO01584] (1); Ribonuclease H-like domain [IPRO12337] (1)	scaffold_5_mRNA_1053.1	C.usshii_01148_mRNA_3.1.C.usshii_01624_mRNA_1.1	
GF0012740	1	2	0	Hypothetical protein (3)		Gag-polypeptide of LTR copia-type [IPRO29472] (2)	scaffold_5_mRNA_1033.1	C.usshii_00091_mRNA_10.1.C.usshii_01351_mRNA_4.1	
GF0012727	1	2	0	Hypothetical protein (3)			scaffold_4_mRNA_963.1	C.usshii_01776_mRNA_3.1.C.usshii_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 [IPRO01878] (3)	scaffold_4_mRNA_847.1	C.usshii_00169_mRNA_9.1.C.usshii_00202_mRNA_5.1	
GF0012602	1	2	0	Hypothetical protein (3)		TB2/TP1/HVA22-related protein [IPRO04345] (3); Leucine-rich repeat domain, L domain-like [IPRO26751] (1)	scaffold_4_mRNA_664.1	C.usshii_01019_mRNA_10.1.C.usshii_02720_mRNA_2.1	
GF0012574	1	2	0	Hypothetical protein (3)			scaffold_4_mRNA_571.1	C.usshii_00141_mRNA_54.1.C.usshii_01045_mRNA_12.1	



ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF000931	1	2	0	Hypothetical protein (3)		Alpha/Beta hydrolase fold [IPR029058] (3)	scaffold_3_mRNA_2930.1	C. unshii_01034_mRNA_3.1.1.C_unshii_01094_mRNA_7.1	
GF0009320	1	2	0	NB-ARC domain disease resistance protein (2); TIR-NBS-LRR class disease resistance protein (1)	ADP binding [GO:0043531] (3); protein binding [GO:0005515] (3)	Winged helix-turn-helix DNA-binding domain [IPR011991] (3); NB-ARC [IPR02182] (3); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3); Leucine-rich repeat 3 [IPR011713] (1)	scaffold_3_mRNA_2898.1	C. unshii_01094_mRNA_9.1.1.C_unshii_03116_mRNA_1.1	
GF0009257	1	2	0	TMV resistance protein N (2); Hypothetical protein (1)	signal transduction [GO:0007165] (3); protein binding [GO:0005515] (3); regulation of salicylic acid mediated signaling pathway [GO:2000031] (1); protein kinase activity [GO:0004672] (1); protein phosphorylation [GO:0006468] (1)	Toll/interleukin-1 receptor homology (TIR) domain [IPR000157] (3)	scaffold_3_mRNA_2670.1	C. unshii_00272_mRNA_26.1.C_unshii_01111_mRNA_10.1	
GF0009255	1	2	0	Ankyrin repeat family protein, putative (3)	regulation of defense response [GO:0031347] (1); cellular response to salicylic acid stimulus [GO:0071446] (1); integral component of membrane [GO:0016021] (1); cellular component (1)	Ankyrin repeat-containing domain [IPR020683] (3); Ankyrin repeat [IPR002110] (3); Protein accelerated cell death 6 [IPR032846] (1)	scaffold_3_mRNA_2661.1	C. unshii_00828_mRNA_12.1.C_unshii_02556_mRNA_1.1	
GF0009243	1	2	0	AT4G00440 protein (3)		Domain of unknown function DUF4378 [IPR025486] (3); Domain of unknown function DUF3741 [IPR02212] (3); Complex 1 LYR protein [IPR08011] (3); LYR motif-containing protein 2 [IPR028688] (3)	scaffold_3_mRNA_262.1	C. unshii_00534_mRNA_4.1.C_unshii_01077_mRNA_11.1	
GF0009232	1	2	0	LYR family of Fe/S cluster biogenesis protein isoform 1 (3)			scaffold_3_mRNA_2580.1	C. unshii_00015_mRNA_11.1.C_unshii_u_00602_mRNA_1.1	
GF0009200	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_2497.1	C. unshii_00534_mRNA_15.1.C_unshii_01195_mRNA_7.1	
GF0009186	1	2	0	TMV resistance protein N (3)	protein binding [GO:0005515] (3); ADP binding [GO:0043531] (3); signal transduction [GO:0007165] (3); ATP binding [GO:000524] (1); protein kinase activity [GO:0004672] (1); protein phosphorylation [GO:0006468] (1)	Leucine-rich repeat 3 [IPR011713] (2); Winged helix-turn-helix DNA-binding domain [IPR011991] (2); Protein kinase, ATP binding site [IPR017441] (1); Protein kinase domain [IPR000719] (1); Leucine-rich repeat, typical subtype [IPR03591] (1); Protein kinase-like domain [IPR011009] (1)	scaffold_3_mRNA_2433.1	C. unshii_00476_mRNA_12.1.C_unshii_00956_mRNA_9.1	
GF0009173	1	2	0	Protein AIG1 (3)	GTP binding [GO:0005255] (3)	AG1-type guanine nucleotide-binding (G) domain [IPR06703] (3); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (3)	scaffold_3_mRNA_2372.1	C. unshii_00373_mRNA_11.1.C_unshii_00811_mRNA_5.1	
GF0009163	1	2	0	Transcription termination factor family protein (2); Hypothetical protein (1)	double-stranded DNA binding [GO:0003690] (2); regulation of transcription, DNA-templated [GO:0006355] (2); mitochondrion [GO:0005739] (2); cellular component (2)	Mitochondrial transcription termination factor [IPR003690] (2)	scaffold_3_mRNA_2344.1	C. unshii_00625_mRNA_15.1.C_unshii_01853_mRNA_6.1	
GF0009145	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_2295.1	C. unshii_00100_mRNA_16.1.C_unshii_00344_mRNA_22.1	
GF0009100	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_2112.1	C. unshii_00916_mRNA_13.1.C_unshii_03049_mRNA_1.1	
GF0009058	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_1949.1	C. unshii_00100_mRNA_20.1.C_unshii_01666_mRNA_3.1	
GF0009024	1	2	0	Hypothetical protein (2); Polynucleotidyl transferase, ribonuclease H-like superfamily protein (1)	nucleic acid binding [GO:0003676] (3)	Ribonuclease H-like domain [IPR012337] (3)	scaffold_3_mRNA_1742.1	C. unshii_00023_mRNA_6.1.C_unshii_00874_mRNA_3.1	
GF0009021	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_1732.1	C. unshii_00948_mRNA_12.1.C_unshii_01788_mRNA_4.1	
GF0009020	1	2	0	Hypothetical protein (3)		Aspartic peptidase domain [IPR021109] (1)	scaffold_3_mRNA_1731.1	C. unshii_00508_mRNA_4.1.C_unshii_01886_mRNA_5.1	
GF0009014	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_1712.1	C. unshii_00512_mRNA_10.1.C_unshii_00613_mRNA_10.1	
GF0009013	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_1704.1	C. unshii_00542_mRNA_7.1.C_unshii_01834_mRNA_1.1	
GF0009008	1	2	0	Mitochondrial substrate carrier family protein B (3)	transmembrane transport [GO:0055085] (3)	Mitochondrial substrate/solute carrier [IPR018108] (3); Mitochondrial carrier domain [IPR03395] (3); Mitochondrial carrier protein [IPR020067] (3)	scaffold_3_mRNA_168.1	C. unshii_00495_mRNA_15.1.C_unshii_00609_mRNA_6.1	
GF0009002	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_166.1	C. unshii_00609_mRNA_7.1.C_unshii_01000_mRNA_14.1	
GF0008986	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_1616.1	C. unshii_00793_mRNA_8.1.C_unshii_02382_mRNA_2.1	
GF0008955	1	2	0	Hypothetical protein (3)	polysaccharide binding [GO:0030247] (3)	Wall-associated receptor kinase, galacturonin-binding domain [IPR025257] (3)	scaffold_3_mRNA_1507.1	C. unshii_01368_mRNA_5.1.C_unshii_02518_mRNA_1.1	
GF0008934	1	2	0	SFBbeta protein (2); S locus F-box protein with the low allelic sequence polymorphism 1-52 (1)	protein binding [GO:0005515] (3)	F-box associated interaction domain [IPR017451] (3); F-box domain [IPR001810] (3); Galactose oxidase/leish, beta-propeller [IPR011043] (1); F-box associated domain, type 3 [IPR013187] (1)	scaffold_3_mRNA_1448.1	C. unshii_00285_mRNA_33.1.C_unshii_01684_mRNA_2.1	
GF0008908	1	2	0	Hypothetical protein (3)			scaffold_3_mRNA_1384.1	C. unshii_00284_mRNA_26.1.C_unshii_01612_mRNA_5.1	
GF0008829	1	2	0	Hypothetical protein (3)	nucleic acid binding [GO:0003676] (3); protein processing [GO:0016485] (1)	Ribonuclease H-like domain [IPR012337] (3)	scaffold_3_mRNA_1194.1	C. unshii_00695_mRNA_4.1.C_unshii_00948_mRNA_4.1	
GF0008772	1	2	0	Presenilin (3)	protein processing [GO:0016485] (3); aspartic-type endopeptidase activity [GO:0004190] (3); integral component of membrane [GO:0016021] (1); cellular component (1)	Presenilin signal peptide peptidase [IPR06659] (3); Peptidase A22A, presenilin [IPR001108] (3)	scaffold_3_mRNA_1101.1	C. unshii_00154_mRNA_37.1.C_unshii_01729_mRNA_2.1	
GF0008762	1	2	0	Hypothetical protein (3)	DNA binding [GO:0003677] (3); regulation of transcription, DNA-templated [GO:0006355] (3)	NAC domain [IPR003441] (3)	scaffold_3_mRNA_1090.1	C. unshii_00154_mRNA_48.1.C_unshii_02011_mRNA_2.1	
GF0008669	1	2	0	Hypothetical protein (3)			scaffold_2_mRNA_780.1	C. unshii_00260_mRNA_20.1.C_unshii_00260_mRNA_32.1	
GF0008380	1	2	0	Hypothetical protein (3)	cysteine-type peptidase activity [GO:0006234] (1); protein refolding [GO:0040226] (1); proteolysis [GO:0006508] (1); 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. unshii_00147_mRNA_4.1.C_unshii_01757_mRNA_1.1	
GF0007883	1	2	0	Hypothetical protein (3)			scaffold_2_mRNA_3899.1	C. unshii_00125_mRNA_46.1.C_unshii_00405_mRNA_26.1	
GF0007409	1	2	0	Hypothetical protein (3)		Reverse transcriptase zinc-binding domain [IPR026960] (3)	scaffold_2_mRNA_3051.1	C. unshii_00081_mRNA_74.1.C_unshii_02626_mRNA_2.1	
GF0007408	1	2	0	Receptor like protein 6 (1); Verticillium wilt disease resistance protein (1); Leucine-rich repeat, plant specific (1)	protein binding [GO:0005515] (3)	Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (3); Leucine-rich repeat domain, L domain-like [IPR032675] (3); Leucine-rich repeat [IPR001611] (2)	scaffold_2_mRNA_3043.1	C. unshii_00081_mRNA_71.1.C_unshii_01944_mRNA_1.1	
GF0007315	1	2	0	Hypothetical protein (3)			scaffold_2_mRNA_2851.1	C. unshii_00142_mRNA_24.1.C_unshii_01808_mRNA_5.1	
GF0007257	1	2	0	Limonen synthase (3)	metabolic process [GO:0008152] (3); terpene synthase activity [GO:0010333] (3); lyase activity [GO:0016829] (3); magnesium ion binding [GO:0000287] (3)	Isoprenoid synthase domain [IPR008949] (3); Terpenoid cyclase/protein prenyltransferase alpha-alpha teroid [IPR008930] (3); Terpene synthase, N-terminal domain [IPR01906] (3); Terpene synthase, metal-binding domain [IPR06530] (3)	scaffold_2_mRNA_2700.1	C. unshii_00663_mRNA_11.1.C_unshii_00663_mRNA_12.1	
GF0007242	1	2	0	Chaperonin ATPase (3)	ATP binding [GO:000524] (3); protein refolding [GO:0040226] (2); cytoplasm [GO:0005737] (2); cellular component (2)	GroEL-like equatorial domain [IPR027413] (3); GroEL-like apical domain [IPR027409] (3); Chaperonin GroEL/TCP-1 family [IPR04022] (3); TCP-1-like chaperonin intermediate domain [IPR027410] (2); Chaperonin Cpn60 [IPR001844] (2)	scaffold_2_mRNA_2638.2	C. unshii_00833_mRNA_12.1.C_unshii_02807_mRNA_2.2	
GF0007231	1	2	0	Hypothetical protein (3)			scaffold_2_mRNA_2570.1	C. unshii_00953_mRNA_5.1.C_unshii_01401_mRNA_6.1	
GF0007204	1	2	0	Hypothetical protein (3)		Retrioxin/oxoninase domain [IPR005162] (2)	scaffold_2_mRNA_2478.1	C. unshii_00565_mRNA_4.1.C_unshii_00836_mRNA_5.1	
GF0007192	1	2	0	Protein phosphatase 1 regulatory subunit pprA (3)	protein binding [GO:0005515] (3)	Leucine-rich repeat [IPR001611] (3); Leucine-rich repeat domain, L domain-like [IPR032675] (3); Leucine-rich repeat, typical subtype [IPR003591] (3); Endonuclease/exonuclease/phosphatase [IPR005135] (2)	scaffold_2_mRNA_2342.1	C. unshii_01397_mRNA_8.1.C_unshii_01759_mRNA_1.1	
GF0007190	1	2	0	Hypothetical protein (3)			scaffold_2_mRNA_2332.1	C. unshii_00871_mRNA_15.1.C_unshii_01759_mRNA_4.1	
GF0007124	1	2	0	Hypothetical protein (3)			scaffold_2_mRNA_191.1	C. unshii_01873_mRNA_9.1.C_unshii_01925_mRNA_8.1	
GF0007113	1	2	0	Hypothetical protein (3)	nucleic acid binding [GO:0003676] (1)	GAG-pre-integrase domain [IPR025724] (2); Ribonuclease H-like domain [IPR012337] (1); Reverse transcriptase, RNA-dependent DNA polymerase [IPR013103] (1)	scaffold_2_mRNA_1882.1	C. unshii_00543_mRNA_1.1.C_unshii_02183_mRNA_5.1	

ID	Num. in <i>C. clementinae</i>	Num. in <i>C. acutis</i>	Num. in <i>P. trifoliata</i>	Note	GO	InterPro	Members in <i>C. clementinae</i>	Members in <i>C. acutis</i>	Members in <i>P. trifoliata</i>
GF0006985	1	2	0	NADix hydrolase 17, mitochondrial (3)	hydrolase activity [GO:0016787 molecular_function] (3)	NUDX hydrolase domain-like [IPR015971] (3); NUDIX hydrolase, conserved site [IPR020084] (3); NUDIX hydrolase domain [IPR000086] (3)	scaffold_2_mRNA_1517.1	C.unshii_00653_mRNA_11.1.C.unshii_02017_mRNA_3.1	
GF0006896	1	2	0	Ankyrin repeat family protein, putative (3)	biological_process (1); integral component of membrane [GO:0016021 cellular_component] (1); regulation of salicylic acid mediated signaling pathway [GO:2000031 biological_process] (1); regulation of defense response [GO:001347 biological_process] (1)	PGG domain [IPR020961] (3); Ankyrin repeat-containing domain [IPR020683] (3); Ankyrin repeat [IPR02110] (3); Protein accelerated cell death 6 [IPR02846] (1)	scaffold_2_mRNA_1304.1	C.unshii_00897_mRNA_10.1.C.unshii_01842_mRNA_1.1	
GF0006851	1	2	0	Hypothetical protein (3)			scaffold_2_mRNA_1236.1	C.unshii_00049_mRNA_33.1.C.unshii_00049_mRNA_34.1	
GF0006675	1	2	0	Hypothetical protein (3)			scaffold_1_mRNA_983.1	C.unshii_00191_mRNA_27.1.C.unshii_01414_mRNA_10.1	
GF0006640	1	2	0	Hypothetical protein (3)	nucleic acid binding [GO:0003676 molecular_function] (3); protein dimerization activity [GO:0046983 molecular_function] (3)	HAT, C-terminal dimerization domain [IPR008906] (3); Ribonuclease H-like domain [IPR012337] (3)	scaffold_1_mRNA_911.1	C.unshii_00068_mRNA_59.1.C.unshii_00837_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 [IPR01611] (2); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (2)	scaffold_1_mRNA_706.1	C.unshii_00242_mRNA_1.1.C.unshii_00372_mRNA_3.1	
GF0006292	1	2	0	Hypothetical protein (3)		Zinc finger, CCHC-type [IPR001878] (1); GAG-pre-integrase domain [IPR025724] (1); Ribonuclease H-like domain [IPR012337] (1); Reverse transcriptase, RNA-dependent DNA polymerase [IPR013103] (1)	scaffold_1_mRNA_3546.1	C.unshii_00305_mRNA_1.1.C.unshii_01994_mRNA_5.1	
GF0006038	1	2	0	Cysteine-rich RLK (RECEPTOR-like protein kinase) 8 (2); Pol polyprotein (1)	nucleic acid binding [GO:0003676 molecular_function] (2); zinc ion binding [GO:0008270 molecular_function] (1)	Expansion/pollen allergen, DPBB domain [IPR007112] (3); RlpA-like double-psi beta-barrel domain [IPR009009] (2); RlpA-like protein, double-psi beta-barrel domain [IPR009009] (1)	scaffold_1_mRNA_316.1	C.unshii_00169_mRNA_11.1.C.unshii_00193_mRNA_12.1	
GF0005662	1	2	0	Plant natriuretic peptide A (3)		Transposase, MuDR, plant [IPR004332] (1)	scaffold_1_mRNA_250.1	C.unshii_00553_mRNA_1.1.C.unshii_00749_mRNA_15.1	
GF0005630	1	2	0	Hypothetical protein (3)		S-locus receptor kinase, C-terminal [IPR021820] (3); Protein kinase-like domain [IPR011009] (2); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (1); Serine/threonine-protein kinase, active site [IPR008271] (4); Protein kinase domain [IPR000719] (1)	scaffold_1_mRNA_239.1	C.unshii_01092_mRNA_2.1.C.unshii_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:0005524 molecular_function] (1); protein phosphorylation [GO:0006468 biological_process] (1); protein kinase activity [GO:0004672 molecular_function] (1)	Expansion/pollen allergen, DPBB domain [IPR007112] (3); RlpA-like double-psi beta-barrel domain [IPR009009] (2); RlpA-like protein, double-psi beta-barrel domain [IPR009009] (1)	scaffold_1_mRNA_2312.1	C.unshii_00054_mRNA_10.1.C.unshii_02084_mRNA_6.1	
GF0005612	1	2	0	Hypothetical protein (3)			scaffold_1_mRNA_2310.1	C.unshii_00021_mRNA_12.1.C.unshii_00688_mRNA_15.1	
GF0005408	1	2	0	Hypothetical protein (3)			scaffold_1_mRNA_1742.1	C.unshii_00097_mRNA_51.1.C.unshii_00167_mRNA_8.1	
GF0005359	1	2	0	Hypothetical protein (3)			scaffold_1_mRNA_1599.1	C.unshii_00558_mRNA_14.1.C.unshii_01614_mRNA_4.1	
GF0005351	1	2	0	Cytokinin riboside 5'-monophosphate phosphoribohydrolase (3)		LOG family [IPR031100] (3); Cytokinin riboside 5'-monophosphate phosphoribohydrolase LOG [IPR005269] (3)	scaffold_1_mRNA_1561.1	C.unshii_01470_mRNA_6.1.C.unshii_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:0003676 molecular_function] (3)	Zinc finger, CCHC-type [IPR001878] (3); Domain of unknown function DUF4219 [IPR025314] (2)	scaffold_1_mRNA_1547.1	C.unshii_00890_mRNA_2.1.C.unshii_01153_mRNA_7.1	
GF0005335	1	2	0	Hypothetical protein (3)			scaffold_1_mRNA_1525.1	C.unshii_00031_mRNA_33.1.C.unshii_00450_mRNA_2.1	
GF0005190	1	2	0	Hypothetical protein (3)			scaffold_1_mRNA_1028.1	C.unshii_00198_mRNA_3.1.C.unshii_01216_mRNA_9.1	
GF0005077	1	3	0	Dienelectone hydrolase family, putative (4)	hydrolase activity [GO:0016787 molecular_function] (4)	Dienelectone hydrolase [IPR020252] (4); Alpha/Beta hydrolase fold [IPR020058] (4)	scaffold_9_mRNA_455.1	C.unshii_00097_mRNA_36.1.C.unshii_01541_mRNA_4.1.C.unshii_01541_mRNA_9.1	
GF0005023	1	3	0	LRR receptor-like kinase family protein (4)	protein binding [GO:0005515 molecular_function] (4); protein kinase activity [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 [IPR032675] (4); Leucine-rich repeat, typical subtype [IPR003591] (4); Leucine-rich repeat-containing N-terminal, plant-type [IPR013210] (4); Serine/threonine-protein kinase, active site [IPR008271] (4); Protein kinase, ATP binding site [IPR017441] (4); Leucine-rich repeat [IPR01611] (4); Concavalin A-like lectin/glucanase domain [IPR013320] (3); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (3); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPR001245] (1); Serine/threonine/tyrosine-protein kinase catalytic domain [IPR001245] (1)	scaffold_9_mRNA_2973.1	C.unshii_00132_mRNA_13.1.C.unshii_00345_mRNA_29.1.C.unshii_01900_mRNA_3.1	
GF0005020	1	3	0	Hypothetical protein (2); Systemin receptor SR160, putative (2)	protein kinase activity [GO:0004672 molecular_function] (4); protein phosphorylation [GO:0006468 biological_process] (4); ATP binding [GO:0005524 molecular_function] (4)	Serine/threonine-protein kinase, active site [IPR008271] (4); Protein kinase-like domain [IPR011009] (4); Protein kinase domain [IPR000719] (4); Serine/threonine/dual specificity protein kinase, catalytic domain [IPR002290] (3); Serine/threonine/tyrosine-protein kinase, catalytic domain [IPR001245] (1); Leucine-rich repeat domain, L domain-like [IPR032675] (1)	scaffold_9_mRNA_2964.1	C.unshii_00095_mRNA_1.1.C.unshii_01005_mRNA_1.1.C.unshii_01821_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)	Leucine-rich repeat [IPR001611] (4); NB-ARC [IPR002182] (4); P-loop containing nucleoside triphosphate hydrolase [IPR027417] (4); Leucine-rich repeat domain, L domain-like [IPR032675] (4); Winged helix-turn-helix DNA-binding domain [IPR011991] (1); Receptor L-domain [IPR00494] (1)	scaffold_9_mRNA_2906.1	C.unshii_00478_mRNA_18.1.C.unshii_00478_mRNA_2.1	
GF0004978	1	3	0	Hypothetical protein (2); RNA-directed DNA polymerase, related (1); LINE-type retrotransposon Lib DNA, Insertion at the S11 site-like protein (1)	nucleic acid binding [GO:0003676 molecular_function] (2)	Reverse transcriptase domain [IPR000477] (3); Ribonuclease H-like domain [IPR012337] (2); Endonuclease/exonuclease/phosphatase [IPR005135] (1)	scaffold_9_mRNA_2195.1	C.unshii_00241_mRNA_21.1.C.unshii_00936_mRNA_17.1.C.unshii_01718_mRNA_1.1	
GF0004976	1	3	0	Hypothetical protein (3); DUF4283 domain protein (1)		Domain of unknown function DUF4283 [IPR025558] (3)	scaffold_9_mRNA_2151.1	C.unshii_00107_mRNA_44.1.C.unshii_00107_mRNA_45.1.C.unshii_00957_mRNA_14.1	
GF0004969	1	3	0	Hypothetical protein (4)			scaffold_9_mRNA_200.1	C.unshii_01104_mRNA_9.1.C.unshii_01866_mRNA_7.1.C.unshii_01866_mRNA_9.1	
GF0004930	1	3	0	Hypothetical protein (4)			scaffold_9_mRNA_1450.1	C.unshii_00468_mRNA_5.1.C.unshii_00776_mRNA_11.1.C.unshii_01292_mRNA_6.1	
GF0004913	1	3	0	Hypothetical protein (4)			scaffold_8_mRNA_966.1	C.unshii_00094_mRNA_37.1.C.unshii_00122_mRNA_5.1.C.unshii_01451_mRNA_4.1	
GF0004897	1	3	0	Hypothetical protein (3); Peptidase aspartic, active site (1)	aspartic-type endopeptidase activity [GO:0004190 molecular_function] (2); proteolysis [GO:0006508 biological_process] (2)	Retroviral aspartyl protease [IPR013242] (2); Aspartic peptidase domain [IPR021192] (2); Retrotransposon gag domain [IPR005162] (2); Aspartic peptidase, active site [IPR001969] (2); Chromo domain [IPR023780] (1); Chromo domain-like [IPR016197] (1)	scaffold_8_mRNA_757.1	C.unshii_00061_mRNA_59.1.C.unshii_00706_mRNA_4.1.C.unshii_01741_mRNA_1.1	
GF0004808	1	3	0	Kiwiflin (4)		RlpA-like double-psi beta-barrel domain [IPR009009] (3); RlpA-like protein, double-psi beta-barrel domain [IPR009009] (1)	scaffold_8_mRNA_2743.1	C.unshii_00458_mRNA_26.1.C.unshii_00806_mRNA_14.1.C.unshii_02581_mRNA_3.1	
GF0004706	1	3	0	Hypothetical protein (4)			scaffold_8_mRNA_1684.1	C.unshii_00373_mRNA_30.1.C.unshii_01134_mRNA_1.1.C.unshii_01665_mRNA_6.1	
GF0004702	1	3	0	Hypothetical protein (4)			scaffold_8_mRNA_1589.1	C.unshii_00480_mRNA_13.1.C.unshii_01336_mRNA_11.1.C.unshii_01407_mRNA_15.1	
GF0004680	1	3	0	Hypothetical protein (2); Ribonuclease H-like superfamily protein (3); Polynucleotidyl 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 [IPR025960] (4); Ribonuclease H-like domain [IPR012337] (4); Endonuclease/exonuclease/phosphatase [IPR005135] (2); Domain of unknown function DUF4219 [IPR025314] (1); Zinc knuckle CX2CX4HX4C [IPR025836] (1); Zinc finger, CCHC-type [IPR001878] (1)	scaffold_8_mRNA_1295.1	C.unshii_00004_mRNA_109.1.C.unshii_u_00006_mRNA_120.1.C.unshii_01309_mRNA_8.1	





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>
GF0002070	1	4	0	Hypothetical protein (3); Selenoprotein (2)		Thioredoxin-like fold [IPR012336] (5); Sep15/ScM redox [IPR014912] (4); Selenoprotein Sep15/ScM [IPR014912] (1)	scaffold_3_mRNA_4346.1	C. unshiu_00054_mRNA_53.1.C. unshiu_00787_mRNA_15.1.C. unshiu_00787_mRNA_2.1.C. unshiu_00787_mRNA_6.1	
GF0002061	1	4	0	Hypothetical protein (3); Monosaccharide transport protein (2)			scaffold_3_mRNA_3939.1	C. unshiu_00022_mRNA_40.1.C. unshiu_00101_mRNA_44.1.C. unshiu_01265_mRNA_12.1.C. unshiu_02081_mRNA_1.1	
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. unshiu_00009_mRNA_98.1.C. unshiu_00697_mRNA_7.1.C. unshiu_01906_mRNA_1.1.C. unshiu_02105_mRNA_3.1	