

**Table S6.** Analyses of differential expressed genes of *otu5-1*, *arp6-1*, and *otu5 arp6*.

DEGs <sup>a</sup>		Overlapped with other genotypes <sup>b</sup>			Expression pattern comparison with other genotypes <sup>c</sup>			
genotype	up	<i>otu5-1</i>	<i>arp6-1</i>	<i>otu5 arp6</i>	vs <i>arp6</i>		vs <i>otu5</i>	
					up	Down or unchanged	up	Down or unchanged
<i>otu5-1</i>	92	-	47 (51.1)	59 (64.1)	61 (66.3)	31 (33.7)		
<i>arp6-1</i>	811	47 (5.8)	-	539 (66.5)			162 (20.0)	649 (80.0)
<i>otu5 arp6</i>	947	59 (6.2)	539 (56.9)	-	758 (80.0)	189 (20.0)	247 (26.1)	700 (73.9)
DEGs		Overlapped with other genotypes			Expression pattern comparison with other genotypes			
genotype	down	<i>otu5-1</i>	<i>arp6-1</i>	<i>otu5 arp6</i>	vs <i>arp6</i>		vs <i>otu5</i>	
					down	up or unchanged	down	up or unchanged
<i>otu5-1</i>	177	-	33 (18.6)	80 (45.2)	50 (28.2)	127 (71.8)		
<i>arp6-1</i>	320	33 (10.3)	-	243 (75.9)			82 (25.6)	238 (74.4)
<i>otu5 arp6</i>	1578	80 (5.1)	243 (15.4)	-	442 (28.0)	1136 (72.0)	198 (12.5)	1380 (87.5)

<sup>a</sup>Up- and down-regulated DEGs were calculated on all loci matched with microarray probes, redundant probes were presented by the most up- or down-regulated locus with  $p < 0.05$ ; unmatched, chloroplast, and mitochondria probes were excluded.

<sup>b</sup>Calculated from the Venn diagrams (Figure S6), numbers in parentheses are percentages.

<sup>c</sup>The  $\log_2$  of expression fold  $\geq 0.2$  and  $\leq -0.2$  are arbitrarily defined as up- and down-regulated and the rest are unchanged.