

Table S1. Analysis of *G. hirsutum* PIN genes and their corresponding orthologues in AA and DD genomes.

Gene ID	Number of intron	Sub-genome	Orthologous	Diploid cotton	Name
CotAD_03159	5	At	Cotton_A_13051	<i>G. arboreum</i>	PIN1-3-A
CotAD_68019	5	At	Cotton_A_31611	<i>G. arboreum</i>	PIN1-4-A
CotAD_23365	6	At	Cotton_A_29759	<i>G. arboreum</i>	PIN2-A
CotAD_13788	5	At	Cotton_A_40424	<i>G. arboreum</i>	PIN3-A
CotAD_05841	5	At	Cotton_A_19614	<i>G. arboreum</i>	PIN6-A
CotAD_40873	5	At	Cotton_A_29004	<i>G. arboreum</i>	PIN8-1-A
CotAD_46231	2	At	Cotton_A_16465	<i>G. arboreum</i>	PIN8-2-A
CotAD_58548	4	At	Cotton_A_30421	<i>G. arboreum</i>	PIN9-A
CotAD_21821	4	Dt	Gorai.008G290000.1	<i>G. raimondii</i>	PIN1-1-D
CotAD_02796	5	Dt	Gorai.007G003800.1	<i>G. raimondii</i>	PIN1-2-D
CotAD_70220	5	Dt	Gorai.006G191800.1	<i>G. raimondii</i>	PIN1-3-D
CotAD_04916	1	Dt	Gorai.007G352200.1	<i>G. raimondii</i>	PIN1-4-D
CotAD_43404	6	Dt	Gorai.009G001600.1	<i>G. raimondii</i>	PIN2-D
CotAD_74791	5	Dt	Gorai.002G179000.1	<i>G. raimondii</i>	PIN3-D
CotAD_69056	6	Dt	Gorai.005G082500.1	<i>G. raimondii</i>	PIN6-D
CotAD_47634	5	Dt	Gorai.012G056200.1	<i>G. raimondii</i>	PIN8-1-D
CotAD_15657	3	Dt	Gorai.011G096500.1	<i>G. raimondii</i>	PIN8-2-D