

**Supplementary Table S2.** Correlation of physico-chemical parameters and transcription level of sulfate transporter genes of plants grown in 25 % hoagland media having 0 mM sulfate

	Biomass Whole Plant	Shoot/root ratio	Sulfate Uptake capacity of Plant	Sulfate content in shoot	Nitrate content in shoot	Thiols content in shoot	Free amino acids content in shoot	Sulfate content in root	Nitrate content in root	Thiols content in root	Free amino acids content in root	Sultr 1;1 Expression level	Sultr 1;2 Expression level
Biomass Whole Plant	1												
Shoot/root ratio	0.978488	1											
Sulfate Uptake capacity of Plant	0.961983	0.991439	1										
Sulfate content in shoot	0.94266	0.99105	-0.98467	1									
Nitrate content in shoot	0.987554	0.99863	0.986365	0.98341	1								
Thiols content in shoot	0.94602	0.92096	-0.94475	0.87622	0.92618	1							
Free amino acids content in shoot	0.927718	0.909211	0.940618	0.86769	0.91209	0.99814	1						
Sulfate content in root	0.96989	0.99878	-0.98741	0.995381	0.99607	0.901038	-0.88879	1					
Nitrate content in root	0.821892	0.921641	0.931784	0.96368	0.900529	0.77171	0.774789	0.93366	1				
Thiols content in root	0.44496	0.40251	-0.49901	0.344744	0.40222	0.709485	-0.74058	0.36318	0.29462	1			
Free amino acids content in root	0.976511	0.986547	0.995163	0.96681	0.985789	0.97022	0.964543	0.97815	0.891668	0.54644	1		
Sultr 1;1 Expression level	0.962873	0.945169	0.96337	0.90589	0.949432	0.99771	0.993981	0.92824	0.805678	0.66366	0.984024	1	
Sultr 1;2 Expression level	0.81179	0.912074	0.904301	0.95825	0.892817	0.71501	0.711045	0.92918	0.989332	0.16147	0.859562	0.756695092	1