

Supplementary Table 3. List of all 141 PEGs from IPG/TPG comparison groups.

Gene_id	readcount_TPG	readcount_IPG	log ₂ Fold change (TPG vs IPG)	q value
AT3G22142	16.96262238	0	4.738	0.0020806
AT5G04120	22.83263929	1.662408091	3.7798	0.00041635
AT1G08090	40.18371867	3.227027471	3.6383	2.97E-07
AT5G17220	20.07027839	1.955774225	3.3592	0.0028957
AT4G31940	99.66080173	12.32137762	3.0159	8.21E-16
AT4G15480	191.6819491	29.87445129	2.6817	2.38E-27
AT5G62210	233.721629	38.38206917	2.6063	1.93E-32
AT3G28160	50.11095314	9.583293703	2.3865	6.12E-06
AT3G60140	139.9308442	27.08747302	2.369	3.76E-17
AT5G15960	117.9182808	23.51818506	2.3259	4.41E-14
AT1G44575	30.60177931	6.356266231	2.2674	0.0025789
AT5G24770	91.41688093	19.06879869	2.2612	1.90E-10
AT3G22840	262.5969327	57.10860737	2.2011	7.64E-30

AT4G37800	72.33932598	16.28182042	2.1515	1.13E-07
AT5G07990	513.8854506	117.1019817	2.1337	6.72E-57
AT5G17700	32.71671187	7.480836411	2.1288	0.0028192
AT2G34810	35.17693954	8.60540659	2.0313	0.0025671
AT2G22590	178.0859541	45.22727895	1.9773	1.96E-17
AT5G15970	332.4328692	85.36954492	1.9613	1.10E-32
AT1G10370	167.8565864	43.90713135	1.9347	5.93E-16
AT2G23910	539.9552315	142.0381031	1.9266	1.81E-52
AT4G14690	68.62740353	18.77543256	1.8699	5.62E-06
AT1G65060	256.295297	76.42187784	1.7457	2.43E-21
AT4G04840	104.7107427	32.71032391	1.6786	5.44E-08
AT5G17040	59.95186384	18.82432692	1.6712	0.0002134
AT4G19810	55.20405605	17.4063906	1.6652	0.00051027
AT5G44400	76.91448622	24.44717781	1.6536	1.23E-05
AT4G03210	102.8979434	32.71032391	1.6534	1.14E-07
AT4G35770	136.8231882	44.39607491	1.6238	4.58E-10

AT5G49360	326.3902047	106.5408009	1.6152	1.90E-24
AT4G02290	184.1286185	60.23784613	1.612	1.57E-13
AT5G48880	403.4773385	134.4105836	1.5858	1.68E-29
AT4G04750	52.61434271	17.60196803	1.5797	0.0015494
AT1G01580	152.7930871	51.6813339	1.5639	1.19E-10
AT1G77760	226.8157268	77.05750447	1.5575	6.10E-16
AT1G30530	74.58374421	25.76732541	1.5333	7.23E-05
AT3G55120	712.5596257	248.9211645	1.5173	1.70E-49
AT2G18150	112.2209114	39.31106192	1.5133	2.46E-07
AT3G21560	389.6223721	137.9309772	1.4981	3.41E-26
AT3G53980	64.39753841	22.93145279	1.4897	0.00054362
AT1G42550	108.120532	38.96880143	1.4722	9.08E-07
AT2G38230	109.6311981	39.70221677	1.4654	8.22E-07
AT5G56080	53.08912348	19.31327047	1.4588	0.0037936
AT1G06000	172.8202036	63.85602845	1.4364	1.26E-10
AT5G17050	295.7021016	117.3953479	1.3328	1.85E-16

AT1G22770	72.64145921	28.84766982	1.3323	0.00084469
AT1G78290	106.9119991	43.71155393	1.2903	2.06E-05
AT5G05270	784.6831422	322.7027471	1.2819	3.99E-42
AT5G08640	1575.840568	648.9747822	1.2799	3.77E-85
AT3G53260	905.709079	373.6017713	1.2775	1.63E-48
AT4G11650	202.9472021	84.19608039	1.2693	2.54E-10
AT1G21400	112.9546635	47.62310238	1.246	2.06E-05
AT3G23810	923.0169965	389.1990708	1.2458	1.50E-47
AT1G06430	82.35288423	35.20393605	1.2261	0.00086896
AT1G55020	313.830095	135.0462102	1.2165	3.92E-15
AT2G33770	183.8264853	79.1110674	1.2164	1.12E-08
AT1G10960	82.13707479	35.35061912	1.2163	0.0009985
AT2G25160	79.07258067	34.17715458	1.2101	0.0015022
AT2G25530	76.48286733	33.24816183	1.2019	0.0022297
AT5G52310	94.99931772	41.41351922	1.1978	0.00032128
AT4G30470	199.494251	87.52089657	1.1886	4.22E-09

AT1G10070	125.8169065	55.34841057	1.1847	1.41E-05
AT4G16260	131.6005996	58.1842832	1.1775	8.80E-06
AT1G24280	111.7461307	49.43219354	1.1767	7.23E-05
AT3G47780	89.5609197	39.80000548	1.1701	0.00079283
AT3G04720	126.4211729	56.47298075	1.1626	1.98E-05
AT1G78570	1198.174039	536.7622361	1.1585	4.66E-55
AT5G04950	95.99204116	43.66265957	1.1365	0.00064475
AT3G47340	174.7624886	80.72458114	1.1143	4.08E-07
AT4G15530	120.9827749	56.42408639	1.1004	9.99E-05
AT5G13930	5369.080022	2523.046539	1.0895	5.86E-228
AT1G30510	336.6195724	160.6179582	1.0675	4.14E-13
AT3G44300	526.4887222	253.2238678	1.056	2.21E-20
AT1G79040	163.4540737	78.6710182	1.055	4.99E-06
AT5G10470	113.7315775	55.00615008	1.048	0.00045244
AT3G49120	431.3599188	208.8766872	1.0462	2.24E-16
AT4G09750	89.86305292	43.51597651	1.0462	0.003614

AT1G55320	149.9444024	72.80369553	1.0423	2.10E-05
AT5G42270	206.09802	100.7223726	1.0329	1.97E-07
AT5G01600	126.5074967	62.19362036	1.0244	0.00022604
AT2G37040	2093.610588	1041.84093	1.0069	5.00E-77
AT5G13630	93.31600404	46.59632091	1.0019	0.0047098
AT1G32640	270.7113679	543.3140797	-1.005	3.77E-19
AT1G13260	120.2490228	241.5381168	-1.0062	2.71E-08
AT2G22330	94.69718449	192.0081345	-1.0198	1.13E-06
AT4G37610	83.34560768	171.6191882	-1.042	0.00000384
AT2G06050	43.16188901	88.93883288	-1.0431	4.46E-03
AT3G23430	216.9316542	447.0899878	-1.0433	1.12E-16
AT1G20510	90.89893826	189.6123111	-1.0607	4.72E-07
AT5G22920	64.0090814	133.6282739	-1.0619	7.04E-05
AT1G78280	63.79327196	133.3838021	-1.0641	6.94E-05
AT1G73080	72.85726865	153.8216428	-1.0781	8.36E-06
AT2G42760	73.4615351	155.7285227	-1.084	0.00000616

AT1G19180	306.449412	650.4905072	-1.0859	2.99E-26
AT4G17500	95.60358416	204.1828291	-1.0947	4.84E-08
AT2G32150	136.5210549	295.1752249	-1.1124	3.95E-12
AT1G66760	47.69388736	103.5093509	-1.1179	4.52E-04
AT5G18670	69.01586053	150.1545661	-1.1214	0.00000475
AT3G25190	125.0399925	273.4172367	-1.1287	1.76E-11
AT4G15760	47.00329713	104.7806041	-1.1565	2.31E-04
AT5G01040	111.4008355	248.4322209	-1.1571	7.97E-11
AT5G48412	70.26755531	161.0091131	-1.1962	2.84E-07
AT2G25460	110.5375978	254.6906985	-1.2042	7.18E-12
AT5G42650	57.57795994	136.1218861	-1.2413	1.74E-06
AT5G41080	228.283231	546.2966354	-1.2589	5.98E-28
AT4G17615	34.65899688	83.56045376	-1.2696	5.09E-04
AT1G49500	36.04017732	87.71647399	-1.2832	0.00026222
AT4G21850	85.93532102	210.1479405	-1.2901	7.11E-11
AT2G14878	78.38199045	192.9860217	-1.2999	4.36E-10

AT1G70850	1114.094679	2766.247064	-1.3121	1.99E-155
AT2G01520	402.8299101	1003.263283	-1.3165	8.76E-56
AT1G80840	141.182539	352.6749871	-1.3208	2.91E-19
AT3G15630	58.00957883	150.4479323	-1.3749	1.64E-08
AT2G18210	24.25698162	66.15406316	-1.4474	6.81E-04
AT3G59930	76.95764811	213.9617002	-1.4752	1.04E-13
AT1G26250	78.166181	221.491431	-1.5026	1.29E-14
AT5G19120	98.92704962	281.2403336	-1.5074	9.36E-19
AT5G05600	25.68132396	73.39042779	-1.5149	1.17E-04
AT5G19110	19.07755494	55.54398799	-1.5418	1.41E-03
AT1G32450	108.2068558	323.778423	-1.5812	2.64E-23
AT1G72450	43.46402223	131.2324505	-1.5942	2.76E-09
AT3G09940	65.73555696	201.1024847	-1.6132	1.03E-14
AT5G63160	64.26805274	197.9732459	-1.6231	1.29E-14
AT1G79310	11.86951948	40.68010388	-1.7771	3.48E-03
AT2G46510	17.73953638	60.97126147	-1.7812	0.0000688

AT4G34410	66.55563286	229.7056827	−1.7872	1.44E−19
AT1G11185	14.41607093	50.06782016	−1.7962	5.08E−04
AT1G12610	14.50239471	51.14349598	−1.8183	0.000347
AT4G21830	34.40002554	122.1381004	−1.828	1.53E−10
AT2G25735	15.36563249	54.56610088	−1.8283	1.63E−04
AT3G14260	11.86951948	44.78722975	−1.9158	6.25E−04
AT1G74930	23.04844873	89.77003693	−1.9616	1.91E−08
AT4G12550	21.66726828	90.89460711	−2.0687	3.44E−09
AT1G17420	9.884072584	42.09804019	−2.0906	3.84E−04
AT5G12340	7.639654355	34.07936587	−2.1573	1.82E−03
AT5G33355	15.79725138	75.88403993	−2.2641	1.44E−08
AT1G28480	20.28608784	105.5140194	−2.3789	7.56E−13
AT1G74950	30.34280798	160.5690639	−2.4038	5.14E−20
AT2G34600	8.891349136	47.3786306	−2.4138	0.000012
AT5G13220	3.237141676	23.51818506	−2.861	0.0027735
