

Table S3 DEGs from RNA-seq compared between with W7, gw9 and OE**down-regulate genes in gw9 compared with W7 up-regulate genes in gw9 compared with W7 up-regulate genes in gw9 compared with W7 down-regulate genes in gw9 compared with W7**

Gene loci	log2FoldChange	padj	Gene loci	log2FoldChange	padj	Gene loci	log2FoldChange	padj	Gene loci	log2FoldChange	padj
Os03g0103200	6.856686199	2.24E-22	Os04g0677600	-10.95310262	1.43E-108	Os03g0223301	11.82138149	7.94E-171	Os07g0115200	-14.45003972	0
Os06g0324400	6.670743454	3.51E-08	Os01g0136600	-10.36841345	1.35E-72	Os01g0219500	10.47213279	1.44E-77	Os10g0328100	-14.24806538	0
Os02g0677300	6.515522906	8.74E-32	Os04g0611700	-9.258860472	1.03E-38	Os01g0136600	10.35446347	3.07E-67	Os07g0162450	-12.7968001	0
Os09g0552500	6.368964473	2.34E-06	Os11g0678301	-9.148976862	7.28E-34	Os01g0802600	9.657143416	6.57E-202	Os03g0629800	-12.38346436	0
Os09g0522000	6.304733776	1.09E-57	Os06g0574900	-9.067942251	1.06E-95	Os05g0442400	9.069194207	2.71E-30	Os02g0297550	-10.75660217	1.53E-93
Os03g0663750	6.107572948	7.73E-290	Os03g0223301	-9.01007705	1.45E-175	Os03g0846200	8.9820491	2.82E-31	Os03g0115800	-10.26955823	0
Os04g0206350	6.045628244	0.000159494	Os03g0846200	-8.996284925	2.10E-34	Os04g0419400	8.921380368	5.67E-30	Os01g0356951	-9.811193738	4.19E-43
Os07g0670300	5.95498363	4.07E-05	Os09g0525500	-8.942088771	4.19E-25	Os04g0323800	8.638912995	7.00E-20	Os01g0537250	-9.756764116	0
Os09g0455500	5.863295482	0.00037405	Os06g0195800	-8.901053319	8.20E-30	Os08g0300501	8.610687706	5.31E-24	Os03g0233700	-9.756198151	5.31E-34
Os02g0179200	5.857333408	0.000145785	Os04g0323800	-8.652661133	1.76E-21	Os05g0421450	8.508357704	1.14E-23	Os04g0397901	-9.378954815	4.67E-34
Os11g0659200	5.821960561	1.09E-29	Os08g0300501	-8.6243035	3.42E-26	Os09g0358000	8.48347448	1.32E-23	Os12g0142900	-9.070913565	2.64E-30
Os03g0183200	5.790115687	1.32E-39	Os09g0358000	-8.497671415	6.32E-26	Os11g0540100	8.27528772	5.43E-19	Os04g0397800	-8.845197435	1.13E-27
Os01g0369900	5.751993103	0.000542121	Os01g0219500	-8.469801537	1.74E-83	Os11g0616900	8.219862723	2.95E-19	Os11g0538400	-8.828751578	3.35E-22
Os03g0289800	5.69655961	0.000936281	Os08g0207800	-8.468915412	7.83E-23	Os02g0181300	8.202498061	2.03E-231	Os07g0442800	-8.346294212	0
Os05g0493800	5.688477503	0.000772807	Os11g0540100	-8.301179426	1.44E-20	Os08g0545800	8.144346965	2.00E-13	Os03g0426350	-7.98030581	1.23E-215
Os07g0529000	5.640020093	0.000936281	Os05g0399700	-8.251477131	2.05E-18	Os11g0181200	8.131498228	2.10E-48	Os03g0105500	-7.845231913	7.57E-127
Os10g0503300	5.597115091	0.001292693	Os11g0616900	-8.234346251	6.78E-21	Os11g0678200	8.120806485	8.66E-17	Os05g0580200	-7.757441837	1.04E-11
Os04g0433100	5.38559717	0.002523717	Os08g0545800	-8.158401899	2.21E-14	Os11g0454000	7.897106865	2.64E-11	Os01g0262401	-7.3822564	1.63E-183
Os01g0768333	5.365598769	0.003587571	Os11g0678200	-8.135037952	2.63E-18	Os02g0157100	7.814134697	4.79E-14	Os06g0700750	-7.19490053	5.60E-09
Os04g0122000	5.310198043	4.70E-19	Os03g0683500	-8.041095931	5.02E-12	Os03g0645900	7.799751588	3.34E-71	Os01g0246400	-7.14744955	1.58E-08
Os12g0409900	5.282153658	0.003587571	Os03g0687800	-7.998611068	4.60E-18	Os05g0545300	7.786902115	2.34E-11	Os06g0484800	-7.099680316	8.73E-10
Os10g0527800	5.281605717	0.003587571	Os08g0121975	-7.961667059	4.35E-13	Os04g0675400	7.76353228	4.02E-142	Os08g0207300	-6.776698363	1.71E-24
Os03g0428200	5.268465819	5.73E-47	Os09g0481650	-7.951607954	6.00E-18	Os12g0202851	7.756730833	6.99E-11	Os08g0315200	-6.591851346	2.02E-34
Os10g0109600	5.247299711	0.005131585	Os03g0654800	-7.743918953	5.70E-11	Os03g0654800	7.729482801	2.15E-10	Os01g0694500	-6.200824106	9.90E-05
Os03g0842900	5.235671007	0.005131585	Os06g0572000	-7.68207653	3.67E-13	Os08g0240200	7.688241191	1.21E-13	Os01g0730400	-6.121197982	6.02E-05
Os10g0530600	5.215217532	0.003885041	Os04g0565750	-7.660103073	5.80E-12	Os04g0565750	7.64559792	4.84E-11	Os12g0551200	-5.914608918	7.59E-09
Os07g0443500	5.212950088	0.005131585	Os06g0652100	-7.618712497	2.56E-13	Os05g0203912	7.643710242	6.86E-11	Os03g0626700	-5.86392463	0.000388803
Os09g0457900	5.187819324	1.12E-09	Os01g0579000	-7.610642398	6.51E-12	Os01g0579000	7.595721291	5.81E-11	Os05g0215000	-5.854143282	0.000388803
Os10g0460733	5.17587998	0.005131585	Os01g0932550	-7.592124812	9.82E-12	Os01g0932550	7.577684764	8.35E-11	Os07g0511400	-5.845476052	0
Os06g0321700	5.122444095	0.00744999	Os04g0599300	-7.5015011	2.33E-58	Os03g0723400	7.570399956	5.47E-120	Os05g0425650	-5.78455938	0.000522083
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Os01g0382200	5.109694252	0.0050663	Os03g0296000	-7.418877152	6.04E-11	Os09g0371000	7.49218903	6.65E-09	Os06g0632400	-5.572879377	0.001325812
Os03g0826900	5.083385735	9.69E-127	Os03g0296100	-7.4172203	9.42E-12	Os09g0273950	7.465989639	7.95E-10	Os01g0830900	-5.554900798	0.001325812
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Os02g0478450	5.009971559	0.010933249	Os11g0623700	-7.373033312	3.05E-10	Os02g0158900	7.443855505	1.29E-09	Os10g0340100	-5.420509922	0
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Os10g0112700	4.934351284	0.010933249	Os03g0207475	-7.234205904	2.55E-10	Os01g0532300	7.231267265	5.97E-09	Os04g0227500	-5.38550403	0.002582482
Os04g0688200	4.914486502	9.99E-06	Os07g0278866	-7.226929397	1.09E-09	Os05g0494600	7.227304542	8.57E-134	Os09g0409000	-5.380340154	0.002582482
Os12g0116700	4.871858872	0.016268697	Os05g0417700	-7.190160391	1.45E-10	Os07g0278866	7.212226892	4.92E-10	Os11g0100800	-5.286295135	0.003651072
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Os01g0154000	4.807082768	0.016268697	Os11g0215300	-6.978977463	4.76E-09	Os01g0625300	6.986352023	4.11E-09	Os12g0555000	-5.110160636	0.007547617
Os07g0516100	4.70656107	0.024477582	Os03g0207800	-6.946980195	1.52E-09	Os07g0611700	6.935046602	3.91E-09	Os11g0709000	-5.031812477	0.011067148
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Os05g0201300	4.664974374	0.024477582	Os04g0321500	-6.789334669	7.26E-09	Os05g0539300	6.850359713	1.03E-08	Os04g0204000	-4.992614328	0.011067148
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Os02g0630100	4.609815237	0.037383057	Os04g0352400	-6.749428031	0	Os03g0438400	6.782429739	1.84E-07	CAA33930	-4.968653893	0.011067148
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Os11g0650500	4.578664054	2.83E-14	Os07g0189400	-6.662195445	5.90E-06	Os11g0153851	6.742304981	2.11E-07	Os01g0152100	-4.875862337	0.016383156
Os04g0524136	4.518742853	0.037383057	Os10g0535800	-6.62969726	7.25E-06	Os10g0389500	6.717925009	0	Os12g0528801	-4.865592606	8.29E-299
Os05g0369700	4.518742853	0.037383057	Os05g0366200	-6.625858233	9.91E-08	Os06g0341300	6.683673126	7.67E-75	Os11g0578000	-4.863605991	0.016383156
Os03g0144300	4.517548348	0.037383057	Os09g0269400	-6.603484422	1.43E-07	Os01g0602200	6.661977085	3.02E-06	Os03g0144300	-4.847332298	0.016383156
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Os08g0416800	4.3966656	0.000599472	Os12g0506700	-6.50990983	9.47E-08	Os12g0218500	6.44908742	8.48E-06	Os06g0667000	-4.806334118	0.016383156
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Os09g0467300	4.340466922	4.55E-06	Os05g0407100	-6.437863984	0	Os07g0418500	6.415891215	2.33E-05	Os08g0520600	-4.801925815	0
Os09g0469300	4.271448776	2.96E-05	Os08g0529300	-6.40498289	6.98E-07	Os04g0529700	6.411217826	9.38E-06	Os09g05525		

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Os01g0208400	4.088278765	4.85E-06	Os02g0576400	-6.265343128	1.64E-06	Os03g0275700	6.321232841	2.82E-05	Os11g0175000	-4.715870314	0.024570936
Os05g0114700	4.071025361	0.00E+00	Os01g0134850	-6.256975218	1.61E-06	Os01g0157200	6.317728207	3.69E-05	Os01g0154000	-4.709074861	0.024570936
Os02g0585200	4.029385118	7.40E-05	Os03g0282232	-6.22404233	7.32E-06	Os03g0128600	6.28043634	5.07E-06	Os01g0329000	-4.699070844	0.024570936
Os03g0431600	4.011575436	0.00284999	Os07g0248800	-6.182355568	5.62E-05	Os03g0282232	6.210652908	1.43E-05	Os11g0126400	-4.693379944	0.024570936
Os03g0561283	3.948812999	3.06E-27	Os01g0597400	-6.165813111	7.24E-05	Os01g0733200	6.207809093	8.08E-179	Os06g0668400	-4.693379944	0.024570936
Os05g0500200	3.931559225	3.63E-160	Os08g0236400	-6.160591639	7.24E-05	Os05g0399700	6.204748746	5.19E-16	Os11g0107266	-4.693379944	0.024570936
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Os03g0324900	3.893825724	3.67E-06	Os11g0434400	-6.112445721	3.16E-05	Os04g0251825	6.09640766	6.60E-05	Os10g0352200	-4.675890313	0.024570936
Os11g0686900	3.861574693	0.003385698	Os04g0251825	-6.111471263	2.77E-05	Os12g0461300	6.08557743	7.44E-05	Os10g0323900	-4.672688646	0.024570936
Os09g0417600	3.848502336	0.0067221	Os04g0114801	-6.082474371	1.82E-05	Os11g0105901	6.08038162	7.87E-05	Os05g0405400	-4.655965083	0.024570936
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Os10g0542100	3.818691667	0.0067221	Os12g0557900	-6.060475205	2.46E-05	Os07g0129300	6.063028299	1.54E-05	Os03g0637600	-4.646020195	0.024570936
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Os09g0545300	3.767887643	2.97E-06	Os11g0430100	-6.05579917	3.82E-05	Os01g0762500	5.947209577	6.76E-17	Os11g0572200	-4.639273565	0.037397889
Os10g0191300	3.767396312	0.007656627	Os02g0105600	-6.043146489	3.16E-05	Os05g0576600	5.915735674	0.000291761	Os11g0198200	-4.639273565	0.037397889
Os04g0516200	3.714973611	2.67E-22	Os03g0731800	-6.032531793	0.000159494	Os03g0687700	5.905099021	0.000194374	Os10g0514300	-4.639273565	0.037397889
Os11g0406945	3.69704954	0.001721472	Os04g0573100	-6.016460071	1.56E-50	Os11g0451700	5.861338381	9.91E-34	Os11g0471200	-4.604263899	2.46E-74
Os01g0955100	3.68942721	7.39E-06	Os11g0467632	-6.003349011	0.000159494	Os10g0142600	5.860524153	0.000185697	Os04g0362501	-4.597696999	2.67E-15
Os01g0620400	3.683846826	0.000466194	Os01g0170000	-6.000499141	5.17E-05	Os07g0183200	5.857445091	0.000388803	Os10g0485400	-4.597117845	1.85E-07
Os08g0518800	3.674400564	5.62E-22	Os08g0491700	-5.991050129	8.01E-15	Os04g0596200	5.857445091	0.000388803	Os09g0417600	-4.589552878	0.000313667
Os01g0597600	3.644754987	6.96E-05	Os06g0611400	-5.966767431	0.000210933	Os04g0604500	5.846076121	8.75E-05	Os12g0169600	-4.531537707	0.037397889
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Os11g0151400	3.636274972	9.44E-31	Os12g0607800	-5.934015065	6.11E-05	Os04g0326300	5.811317084	3.73E-20	Os07g0561101	-4.514225658	0.037397889
Os04g0630800	3.633601929	1.60E-07	Os03g0341600	-5.926047123	0.000279791	Os05g0498200	5.7960527	0.0001504	Os01g0849600	-4.507892907	0.037397889
Os03g0817500	3.604767913	0.00076647	Os08g0496800	-5.924269841	6.35E-11	Os03g0623100	5.778537018	0.00014568	Os01g0652300	-4.49359581	0.037397889
Os08g0487100	3.596946001	8.35E-31	Os03g0687700	-5.918409283	0.000120832	Os11g0457500	5.77615229	0.000268136	Os02g0138100	-4.493180769	0.037397889
Os02g0759400	3.59324043	6.68E-22	Os07g0687300	-5.910982883	0.000279791	Os07g0242900	5.773362686	0.000522083	Os01g0369900	-4.493180769	0.037397889
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Os04g0175300	1.047250458	4.85E-08
Os07g0141600	1.047205785	3.46E-08
Os05g0591500	1.04717218	1.72E-69
Os06g0519400	1.046218962	1.11E-07
Os09g0546200	1.046104141	7.25E-07
Os08g0432000	1.046023994	6.73E-16
Os01g0913300	1.045797588	0.011005032
Os02g0109501	1.044982068	5.51E-07
Os07g0595700	1.044729308	4.77E-12
Os06g0549700	1.044240765	1.53E-24
Os01g0798800	1.043438932	0.003734306
Os03g0351100	1.043111018	7.40E-24
Os07g0661400	1.043007776	2.04E-63
Os03g0726400	1.042648935	2.75E-57
Os01g0814300	1.042253025	3.78E-13
Os03g0140900	1.041800583	0.017875866
Os02g0293400	1.041367546	2.93E-12
Os02g0820200	1.041265788	6.57E-06
Os02g0150450	1.040567902	0.024939647
Os08g0551300	1.040396505	1.21E-05
Os10g0136150	1.04028568	2.58E-13
Os01g0139000	1.039869595	0.000205478
Os12g0291000	1.039736129	8.09E-50
Os12g0155250	1.038660627	0.00304095
Os06g0671000	1.038478848	0.004401272

Os07g0693400	1.037292801	1.54E-30
Os02g0306250	1.037105466	0.00836529
Os07g0192700	1.035835578	0.000393455
Os03g0173700	1.034630364	7.03E-54
Os01g0585400	1.034590552	0.007322276
Os02g0306100	1.034584167	5.03E-05
Os05g0353500	1.034357494	1.09E-13
Os09g0491652	1.033297775	0.001880113
Os09g0459900	1.033251659	2.26E-05
Os08g0552100	1.032546518	0.000449611
Os05g0453500	1.032283422	8.74E-46
Os01g0835500	1.032121499	0.002076633
Os04g0448700	1.032110958	3.12E-05
Os01g0600400	1.031413814	3.26E-15
Os04g0613900	1.031136663	9.70E-12
Os11g0672300	1.030826821	0.006448353
Os10g0499600	1.030660903	2.93E-32
Os08g0522500	1.028621519	2.84E-39
Os01g0609900	1.028389516	2.82E-11
Os01g0281600	1.028370723	0.033216401
Os11g0162000	1.027463153	1.75E-53
Os06g0235300	1.026914135	1.20E-13
Os08g0241900	1.026164302	0.012180118
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Os08g0126700	1.025159979	6.92E-08
Os02g0652800	1.024494665	1.40E-07
Os04g0420700	1.024312099	2.25E-07
Os05g0473401	1.023511652	0.016360277
Os04g0349600	1.023236038	0.044515175
Os11g0577700	1.022609583	1.26E-09
Os08g0440300	1.022103361	1.27E-50
Os03g0698350	1.021801131	1.79E-13
Os03g0444900	1.021501592	2.68E-18
Os11g0117300	1.02008516	0.01936154
Os03g0133000	1.020076655	4.27E-05
Os03g0203700	1.02003238	3.75E-07
Os01g0640700	1.019901836	0.001188603
Os01g0844900	1.019563764	1.31E-07
Os11g0276000	1.019549939	5.28E-18
Os12g0197600	1.018838845	9.67E-18
Os03g0103900	1.018404507	0.017251614
Os12g0153600	1.017947194	4.56E-08
Os02g0176400	1.017801357	2.36E-06
Os06g0142300	1.017370168	2.64E-12
Os03g0769500	1.017163085	0.001293624
Os01g0563500	1.015184926	5.86E-09
Os01g0252900	1.014899708	1.88E-13
Os02g0492900	1.014899214	1.66E-49
Os11g0130500	1.014491796	0.047956295
Os05g0119200	1.014148584	0.015204752
Os07g0493850	1.013652876	0.000937344
Os11g0673200	1.013637404	2.20E-20
Os04g0388601	1.012979885	8.97E-13
Os11g0460900	1.012894807	0.000585448
Os09g0544400	1.012443678	0.0032941
Os04g0384800	1.012416954	3.61E-05
Os04g0556900	1.010901377	0.005100903
Os09g0436800	1.010485852	6.03E-20
Os01g0747400	1.010284143	0.024279857
Os02g0793200	1.010103405	2.35E-09
Os12g0626000	1.010077577	0.041488447
Os02g0173100	1.009446427	8.02E-53
Os06g0619000	1.009082274	8.82E-12
Os10g0457700	1.009066368	2.47E-41
Os04g0224200	1.009018028	4.04E-05
Os01g0518400	1.008515681	0.048517288
Os11g0634200	1.008352246	1.39E-05
Os11g0505300	1.007962869	0.046801256
Os11g0195100	1.007579676	1.37E-20
Os02g0664100	1.006474548	3.03E-06

Os03g0300400	1.006441573	0.002589421
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Os09g0131400	1.005825119	1.13E-60
Os06g0125300	1.005457735	0.000121551
Os02g0481900	1.004271217	5.90E-08
Os08g0162300	1.00386325	2.94E-05
Os02g0241600	1.003150593	1.17E-16
Os03g0242200	1.002654594	5.99E-25
Os12g0210000	1.00251642	1.35E-19
Os07g0531900	1.002106679	3.53E-36
Os06g0361500	1.001301525	1.94E-34
Os07g0149300	1.001165806	5.40E-05
Os11g0145700	1.000929349	0.000231413
Os01g0848400	1.000768917	0.004107713
Os11g0574725	1.000641628	0.044981759
Os01g0846000	1.000623151	1.00E-51
Os02g0701300	1.000239849	1.56E-60