

Insect oral secretions suppress wound-induced responses in *Arabidopsis*.

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Supplementary data

Figure S1. HPLC chromatogram of insect OS. OS of *P. brassicae* and *S. littoralis* was analyzed on a reverse-phase C18 column. Standards of known FACs and fatty acids were used to identify putative compounds eluting at the same retention times.

Figure S2. OS suppression of wound-responsive genes does not require an enzymatic activity. (A) Glucose oxidase (GOX) activity from insect OS, visualized by a brown precipitate on glass fiber discs, was detected in *S. littoralis* OS (*S. l.*) and in the positive control GOX, but not in *P. brassicae* OS (*P. b.*). (B) Expression of ERF/AP2 TF was monitored by qPCR after wounding (black bar), after treatment with intact, filtered through a 3kDa filter or boiled *P. brassicae* OS (light grey bars), and after treatment with purified GOX (hatched bar) for 10 h. Untreated plants were used as controls. Values are normalized to the reference gene and are the mean of three technical replicates.

Figure S3. *P. brassicae* and *S. littoralis* OS reduce wound-induced water loss. Leaves were wounded (black bars), treated with *P. brassicae* OS (light grey bars), or treated with *S. littoralis* OS (dark grey bars). Untreated plants were used as controls (white bars). Fresh weight of detached leaves was measured after 4 h. Values (\pm SE) are the mean of 30 leaves. Bars with different letters differ at P -value <0.05 (Tukey's HSD test).

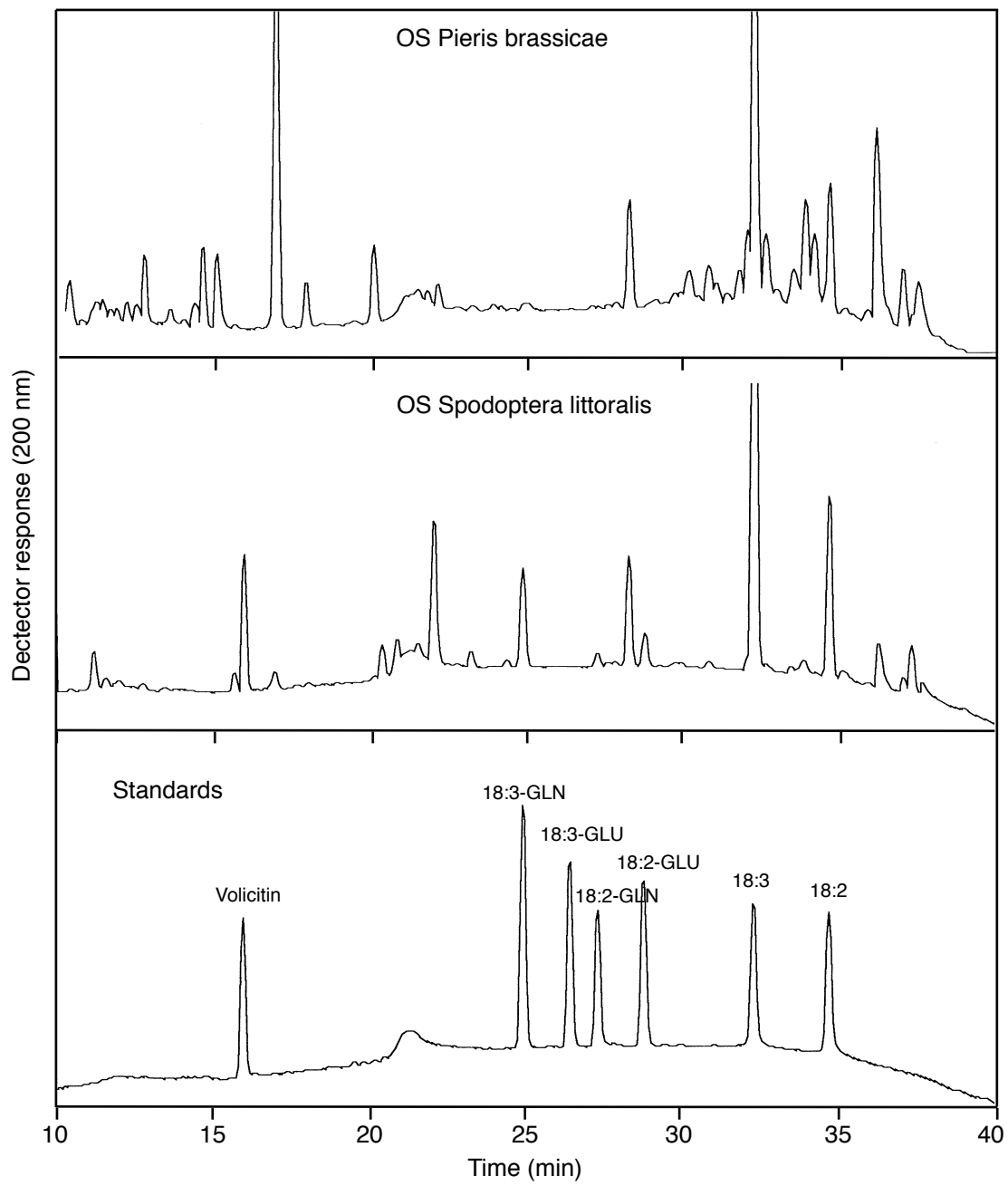


Figure S1

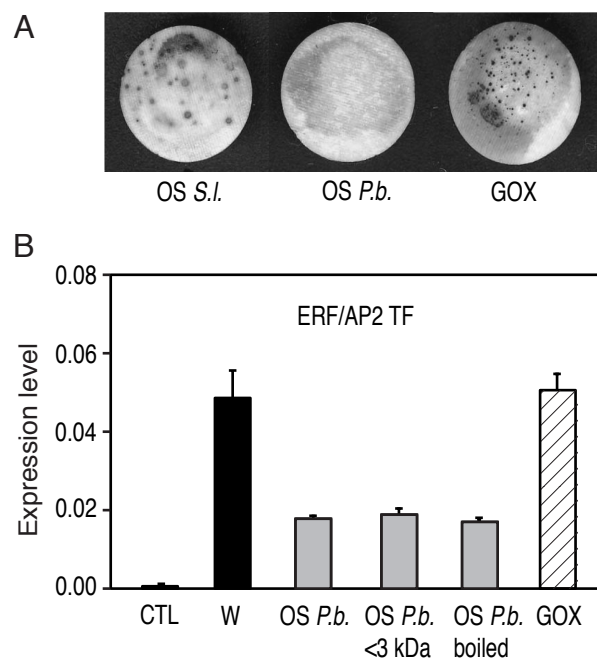


Figure S2

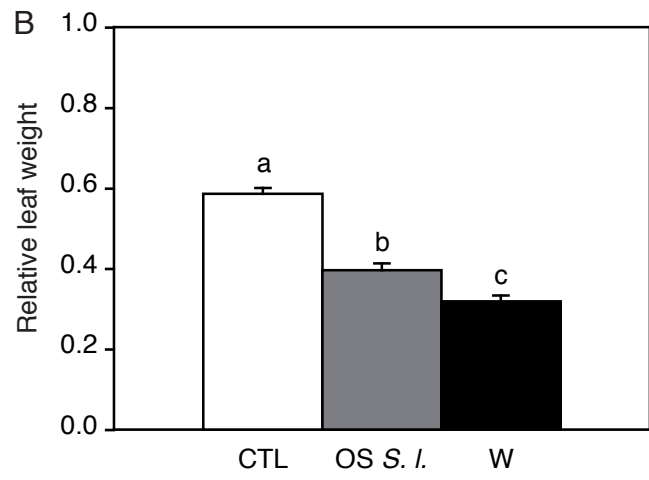
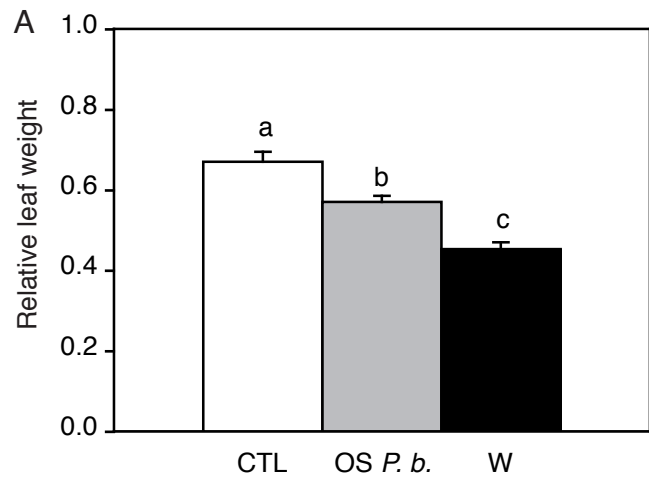


Figure S3

Table S1. List of genes induced by wounding after 6h or 24 h. Leaves were punctured with four 1 mm-holes (wounding). 1 microL of *S. littoralis* OS was applied to the holes (wounding + OS). Untreated plants were used as controls. RNA samples were hybridized to whole-genome Arabidopsis microarrays. Genes significantly induced by wounding after either 6h or 24h are presented (ratio >1.5, *P*-value <0.05).

AGI	Description	Treatment 6 h				Treatment 24 h					
		Expression ratio Wounding (n=6)	<i>P</i> -value	Expression ratio Wounding + OS (n=3)	<i>P</i> -value	<i>P</i> -value W vs W + OS	Expression ratio Wounding (n=6)	<i>P</i> -value	Expression ratio Wounding + OS (n=3)	<i>P</i> -value W vs W + OS	
At2g38240	oxidoreductase, 2OG-Fe(II) oxygenase family protein	16.33	0.00002	26.78	0.00031	0.09725	1.24	0.21242	2.50	0.05497	0.01752
At5g07010	sulfoltransferase	7.36	0.00000	13.06	0.00003	0.17827	1.07	0.62492	2.92	0.04338	0.03967
At2g39030	GCN5-related N-acetyltransferase (GNAT) family protein	6.36	0.00012	17.08	0.00003	0.03024	3.88	0.00016	9.67	0.00015	0.02165
At2g02990	ribonuclease 1 (RNS1)	5.46	0.00000	11.20	0.00183	0.31312	1.00	0.48455	1.00	0.63517	1.00000
At5g24780	vegetative storage protein Vsp1	5.28	0.00302	8.22	0.00278	0.28631	2.19	0.33913	3.95	0.10179	0.32522
At5g59320	transfer protein 3 (LTP 3) identical to lipid transfer protein 3 from Arabidopsis t	5.24	0.00529	3.31	0.01198	0.62182	4.11	0.06336	2.23	0.16298	0.65334
At4g34230	cinnamyl-alcohol dehydrogenase, putative	5.10	0.00002	7.69	0.00000	0.10475	2.49	0.00230	2.42	0.00533	0.99098
At5g59310	transfer protein 4 (LTP 4) identical to lipid transfer protein 4 from Arabidopsis t	5.08	0.00469	3.35	0.00987	0.65911	17.86	0.05612	6.28	0.03053	0.92180
At5g05600	oxidoreductase, 2OG-Fe(II) oxygenase family protein	5.02	0.00006	8.39	0.00034	0.12137	2.70	0.00024	6.03	0.00061	0.00252
At3g22600	protease inhibitor/seed storage/lipid transfer protein (LTP) family contains Pfar	5.01	0.00854	2.43	0.66749	0.16997	2.97	0.15183	2.11	0.96906	0.44558
At4g11320	putative drought-inducible cysteine proteinase (AT4g11320) mRNA, complete c	4.36	0.00050	5.35	0.04256	0.91974	1.09	0.98573	1.70	0.14009	0.06352
At2g37180	plasma membrane intrinsic protein 2C (PIP2C) / aquaporin PIP2.3 (PIP2.3) / w	4.24	0.00001	11.88	0.00000	0.00831	1.57	0.01798	2.01	0.02333	0.52720
At1g78530	receptor protein kinase, putative	4.21	0.40816	3.36	0.17571	0.95581	1.86	0.00267	1.82	0.00991	0.97003
At3g46220	expressed protein	3.76	0.06170	4.54	0.00426	0.41930	1.59	0.01193	2.14	0.51691	0.26184
At3g55970	oxidoreductase, 2OG-Fe(II) oxygenase family protein	3.74	0.00001	7.54	0.00037	0.01939	1.44	0.16312	4.86	0.00038	0.00069
At4g15210	beta-amylase (BMY1) / 1,4-alpha-D-glucan maltohydrolase	3.59	0.00006	5.96	0.00017	0.05686	1.38	0.04762	1.44	0.16071	0.93796
At4g08870	arginase, putative	3.56	0.00263	6.83	0.00013	0.12446	1.31	0.06272	1.56	0.11114	0.70015
At3g48520	cytochrome P450 family protein	3.46	0.00015	12.01	0.00070	0.01379	1.02	0.30302	1.00	0.51591	0.51649
At2g38870	protease inhibitor, putative	3.41	0.00000	2.82	0.00032	0.04824	2.64	0.00024	3.40	0.00014	0.21619
At5g61890	AP2 domain-containing transcription factor family protein	3.32	0.00031	1.41	0.11963	0.03464	1.44	0.04194	1.00	0.65014	0.08369
At5g07280	receptor-like protein kinase-like protein	3.21	0.49656	2.54	0.09395	0.67348	2.01	0.01322	1.85	0.01984	0.81264
At3g16400	jacalin lectin family protein	3.17	0.00054	5.84	0.00014	0.04648	1.41	0.16098	1.37	0.13282	0.86153
At3g54420	class IV chitinase (CHIV)	3.13	0.00049	2.08	0.00318	0.20320	0.96	0.26434	0.85	0.18458	0.40160
At4g17470	palmitoyl protein thioesterase family protein	3.12	0.00679	3.61	0.00752	0.62072	0.96	0.40408	1.24	0.58785	0.92600
At3g16470	jacalin lectin family protein	3.01	0.00147	5.79	0.00028	0.04768	1.34	0.02009	1.64	0.05101	0.30223
At1g20070	expressed protein	3.00	0.00136	2.57	0.02275	0.53676	2.40	0.00303	3.03	0.01751	0.37248
At2g37130	peroxidase 21 (PER21) (P21) (PRXR5)	2.98	0.00001	5.77	0.00019	0.02080	2.25	0.00003	6.22	0.00003	0.00003
At2g47810	histone-like transcription factor (CBF/NF-Y) family protein	2.95	0.00237	2.29	0.03239	0.27680	1.30	0.34140	1.17	0.22593	0.58013
At1g73325	trypsin and protease inhibitor family protein / Kunitz family protein	2.93	0.01187	1.40	0.25518	0.23618	1.79	0.05287	1.75	0.27841	0.77812
At1g43160	AP2 domain-containing protein RAP2.6 (RAP2.6)	2.90	0.00545	4.92	0.00310	0.17984	1.00	0.45972	1.00	0.61562	1.00000
At2g43510	trypsin inhibitor, putative	2.81	0.00000	8.57	0.00000	0.00005	3.08	0.00007	8.68	0.00000	0.00600
At4g08910	expressed protein	2.76	0.02308	2.75	0.00228	0.84079	1.51	0.14551	1.37	0.10792	0.47930
At2g32830	inorganic phosphate transporter (PHT5)	2.72	0.00339	3.52	0.00488	0.13142	1.00	0.00082	1.00	0.01457	1.00000
At4g24970	ATP-binding region, ATPase-like domain-containing protein	2.71	0.01879	6.46	0.00458	0.01216	0.99	0.51854	1.00	0.67360	0.73834
At3g13790	beta-fructosidase (BFRUCT1) / beta-fructofuranosidase / cell wall invertase	2.66	0.00008	1.62	0.02797	0.07632	1.21	0.04821	1.00	0.68713	0.10736
At3g52520	expressed protein	2.54	0.00233	2.45	0.00934	0.82355	1.54	0.20568	1.57	0.43640	0.96090
At4g36950	pseudogene, similar to OSJNBa0042L16.2	2.51	0.04155	1.78	0.31794	0.28211	1.16	0.71208	1.21	0.88370	0.82551
At2g30570	photosystem II reaction center W (PsbW) protein-related	2.50	0.00324	3.12	0.00088	0.19792	1.84	0.36536	1.68	0.38499	0.81100
At2g43620	chitinase, putative	2.50	0.00109	12.29	0.00010	0.00252	1.23	0.97690	1.10	0.51825	0.64564
At2g33380	calcium-binding RD20 protein (RD20)	2.47	0.00028	6.70	0.00002	0.00525	1.44	0.00075	1.50	0.01579	0.95452
At4g23600	coronatine-responsive tyrosine aminotransferase / tyrosine transaminase	2.47	0.02077	3.62	0.00086	0.24572	1.94	0.00026	1.89	0.00520	0.87717
At2g39310	jacalin lectin family protein	2.45	0.00538	3.68	0.00640	0.11166	1.63	0.10933	2.37	0.02649	0.07087
At5g50200	expressed protein	2.45	0.00539	3.21	0.00504	0.24398	1.39	0.52168	1.36	0.57021	0.98072
At1g75550	glycine-rich protein	2.41	0.00052	3.48	0.00133	0.08789	1.14	0.12037	1.07	0.08359	0.71981
At2g39330	jacalin lectin family protein	2.37	0.00015	4.66	0.00000	0.03662	1.52	0.00001	2.23	0.00016	0.07572
At5g20230	plastocyanin-like domain-containing protein	2.37	0.01518	5.77	0.00151	0.03278	1.52	0.23809	2.85	0.10108	0.27133
At4g01080	expressed protein	2.35	0.01057	2.95	0.00106	0.35279	1.14	0.33428	0.72	0.40635	0.10877
At2g10920	hypothetical protein	2.35	0.02996	3.01	0.00465	0.23703	1.00	0.00235	1.00	0.02803	1.00000
At3g58020	DNAJ heat shock N-terminal domain-containing protein	2.34	0.00465	2.47	0.02037	0.70666	1.08	0.12636	1.06	0.21899	0.83015
At2g39520	hypothetical protein	2.32	0.00222	2.57	0.00866	0.61448	1.01	0.33898	1.00	0.48929	0.51649
At3g16420	jasmonate inducible protein; myrosinase binding protein-like (MDC8.5) mRNA,	2.30	0.00034	2.74	0.00020	0.26770	1.02	0.96165	1.17	0.36789	0.02955
At4g01985	expressed protein	2.30	0.02441	2.65	0.00311	0.52635	1.81	0.16987	1.65	0.28311	0.81795
At3g13790	beta-fructosidase (BFRUCT1) / beta-fructofuranosidase / cell wall invertase	2.30	0.04713	2.13	0.05782	0.91073	1.12	0.18741	1.00	0.10575	0.32883
At2g30360	CBL-interacting protein kinase 11 (CIPK11)	2.29	0.00065	3.78	0.00066	0.00191	1.62	0.02986	1.46	0.14895	0.56195
At1g79780	integral membrane protein, putative	2.29	0.00362	2.55	0.00775	0.61396	1.18	0.11489	1.19	0.21522	0.96207
At2g33240	putative myosin heavy chain	2.29	0.00388	3.49	0.00727	0.12870	1.49	0.78319	1.49	0.78396	0.96086
At1g77885	expressed protein	2.27	0.01179	2.74	0.00201	0.35493	1.26	0.10552	1.26	0.23605	0.99830

At1g37130	nitrate reductase 2 (NR2)	2.27	0.00424	3.19	0.00329	0.36165	0.98	0.38600	0.92	0.27571	0.67587
At4g18620	hypothetical protein	2.26	0.02009	3.69	0.00149	0.03465	1.08	0.00327	1.00	0.00443	0.51649
At5g64120	peroxidase, putative	2.23	0.00002	8.00	0.00104	0.01969	1.73	0.00064	1.34	0.07279	0.16126
At2g37040	phenylalanine ammonia-lyase 1 (PAL1)	2.23	0.00097	2.33	0.01284	0.85567	1.33	0.68264	1.05	0.96635	0.77450
At1g02205	CER1 protein	2.23	0.00201	1.58	0.02405	0.25866	1.63	0.12601	1.59	0.12292	0.94609
At1g56650	myb family transcription factor (MYB75)	2.22	0.00591	2.20	0.01483	0.84773	1.50	0.13871	1.12	0.37101	0.61381
At4g01985	expressed protein	2.20	0.00571	2.56	0.00061	0.33088	1.46	0.77238	1.20	0.04620	0.48248
At2g37770	aldo/keto reductase family protein	2.20	0.02055	7.56	0.00111	0.05614	1.48	0.03029	1.57	0.02224	0.79676
At2g37760	aldo/keto reductase family protein	2.19	0.00054	4.30	0.00003	0.01311	1.35	0.01631	1.40	0.02293	0.61426
At1g17420	lipoxygenase (LOX), putative similar to lipoxygenase gi:1495804 [Solanum tuberosum]	2.17	0.02857	3.01	0.05762	0.53818	1.12	0.23249	1.01	0.52954	0.16828
At3g20470	pseudogene, glycine-rich protein	2.15	0.00003	1.22	0.87013	0.00183	1.40	0.28142	1.59	0.00683	0.39198
At1g52890	no apical meristem (NAM) family protein	2.15	0.00021	5.88	0.00052	0.02361	1.21	0.00945	1.53	0.00845	0.20742
At2g16630	proline-rich family protein	2.14	0.00737	2.26	0.00241	0.69895	1.24	0.06756	1.00	0.60927	0.16890
At1g60190	armadillo/beta-catenin repeat family protein / U-box domain-containing protein	2.13	0.00612	2.26	0.00627	0.72719	1.71	0.50723	1.07	0.61874	0.50025
At5g28237	tryptophan synthase, beta subunit, putative	2.13	0.01947	2.87	0.02277	0.34330	1.00	0.73957	1.00	0.82205	1.00000
At2g06050	12-oxophytodienoate reductase (OPR3) / delayed dehiscence1 (DDE1)	2.13	0.01970	2.72	0.01193	0.27879	1.06	0.32330	1.08	0.52190	0.95987
At3g17110	pseudogene, glycine-rich protein	2.12	0.00728	2.93	0.00099	0.14698	1.23	0.78905	1.29	0.66741	0.74071
At5g61820	expressed protein	2.12	0.00022	11.61	0.00001	0.00012	1.52	0.43226	1.55	0.22471	0.82158
At3g22800	leucine-rich repeat family protein / extensin family protein	2.10	0.02515	2.80	0.09184	0.47395	1.00	0.00460	1.00	0.04217	1.00000
At5g26960	kelch repeat-containing F-box family protein	2.09	0.01791	2.25	0.13533	0.76727	1.37	0.08981	1.40	0.17994	0.74048
At4g36010	pathogenesis-related thaumatin family protein	2.07	0.00729	2.09	0.01684	0.78132	1.04	0.25796	1.06	0.39602	0.79751
At5g44310	late embryogenesis abundant domain-containing protein / LEA domain-containing protein	2.05	0.45418	3.23	0.22359	0.18434	1.53	0.04608	1.51	0.10239	0.94801
At4g18280	glycine-rich cell wall protein-related	2.04	0.00000	1.22	0.00412	0.00279	1.23	0.00628	0.99	0.11532	0.35223
At1g02405	proline-rich family protein	2.04	0.00158	2.15	0.03831	0.94615	1.44	0.21356	1.41	0.59994	0.76005
At3g22620	protease inhibitor/seed storage/lipid transfer protein (LTP) family protein	2.04	0.01250	1.12	0.17245	0.16464	5.34	0.00000	1.60	0.01847	0.00050
At4g31800	WRKY family transcription factor	2.02	0.00841	1.75	0.09892	0.40921	0.98	0.32108	1.34	0.31521	0.37508
At1g54575	expressed protein	2.02	0.02027	4.95	0.00082	0.03623	1.87	0.12852	1.49	0.07464	0.93151
At4g01985	expressed protein	2.02	0.03950	1.70	0.30774	0.56738	1.67	0.20903	1.69	0.00595	0.74961
At5g09440	phosphate-responsive protein, putative	2.02	0.00399	4.52	0.00061	0.03377	1.48	0.01741	1.89	0.01025	0.23313
At2g30560	glycine-rich protein	2.01	0.02473	2.86	0.01326	0.14491	1.05	0.01903	1.08	0.11913	0.73970
At4g16590	glucosyltransferase-related	2.01	0.02595	1.42	0.68974	0.38598	1.37	0.04143	1.21	0.44655	0.56275
At2g25000	WRKY family transcription factor	2.01	0.02743	1.92	0.17441	0.72831	1.99	0.04441	2.57	0.04097	0.34469
At4g20860	FAD-binding domain-containing protein	2.01	0.00784	2.03	0.01802	0.90266	1.29	0.10625	1.62	0.03880	0.02253
At5g28640	SSXT protein-related / glycine-rich protein	2.01	0.00047	2.04	0.01932	0.96096	1.11	0.00297	1.00	0.00034	0.35477
At1g17420	lipoxygenase, putative	2.00	0.02231	3.54	0.01049	0.00869	1.10	0.43984	1.02	0.70173	0.56228
At1g11580	pectin methylesterase, putative	2.00	0.00716	3.33	0.00063	0.06609	1.37	0.03367	1.77	0.03997	0.18507
At2g16890	UDP-glucuronosyl/UDP-glucosyl transferase family protein	2.00	0.01569	1.79	0.00496	0.96757	1.00	0.59928	1.00	0.72184	1.00000
At4g20390	integral membrane family protein	1.99	0.01234	2.86	0.00075	0.12383	1.19	0.27597	1.28	0.75764	0.61137
At1g62240	expressed protein	1.98	0.00076	2.43	0.05429	0.58702	1.33	0.57685	1.40	0.96524	0.75384
At4g22470	protease inhibitor/seed storage/lipid transfer protein (LTP) family protein	1.97	0.00024	1.96	0.01641	0.81311	1.47	0.02406	2.52	0.00147	0.01959
At3g24600	hypothetical protein	1.96	0.02596	2.01	0.10108	0.95805	1.00	0.23460	1.00	0.41617	1.00000
At1g73330	protease inhibitor, putative (DR4)	1.96	0.00067	1.11	0.13595	0.03095	2.14	0.00156	2.61	0.00020	0.31828
At4g17440	expressed protein	1.94	0.00628	2.86	0.00270	0.04399	1.26	0.58249	1.35	0.97486	0.60850
At5g41120	esterase/lipase/thioesterase family protein	1.94	0.00764	1.93	0.00832	0.81538	1.00	0.29116	1.00	0.47134	1.00000
At5g05340	peroxidase, putative	1.94	0.00234	3.03	0.00328	0.29590	2.96	0.00001	1.56	0.00298	0.01516
At4g20970	basic helix-loop-helix (bHLH) family protein	1.93	0.00266	1.37	0.03649	0.18663	1.00	0.76711	1.00	0.84122	1.00000
At2g47180	galactinol synthase, putative	1.93	0.00063	2.99	0.00016	0.03856	1.24	0.01406	1.32	0.06378	0.80737
At4g29230	no apical meristem (NAM) family protein	1.93	0.00452	2.37	0.11303	0.76821	1.07	0.01528	1.04	0.02464	0.71810
At1g13300	myb family transcription factor	1.92	0.03990	3.01	0.05213	0.35275	1.00	0.17641	1.00	0.35345	1.00000
At4g15440	hydroperoxide lyase (HPL1)	1.92	0.00202	2.88	0.00017	0.13572	1.00	0.05731	1.26	0.02693	0.19611
At2g35710	glycogenin glucosyltransferase (glycogenin)-related	1.92	0.04462	1.87	0.09270	0.95213	1.00	0.74975	1.00	0.82916	1.00000
At1g19190	expressed protein	1.91	0.02871	1.84	0.01651	0.95990	1.21	0.29169	1.20	0.41549	0.96888
At2g32510	protein kinase family protein	1.90	0.02667	2.60	0.00346	0.30157	1.01	0.30821	1.00	0.45896	0.70997
At5g03210	expressed protein	1.90	0.00846	2.14	0.00711	0.51453	2.82	0.53419	1.08	0.94660	0.65877
At3g07195	proline-rich family protein	1.90	0.00051	1.95	0.00305	0.78313	1.00	0.31164	0.98	0.37977	0.75414
At4g02360	expressed protein	1.90	0.00057	3.39	0.00181	0.11170	1.35	0.06123	1.17	0.04871	0.97059
At1g27710	glycine-rich protein	1.89	0.03769	1.68	0.58188	0.51309	1.29	0.56473	1.39	0.56026	0.55113
At1g76790	O-methyltransferase family 2 protein	1.89	0.02472	3.12	0.00180	0.13014	1.00	0.11566	1.00	0.27772	1.00000
At1g80120	expressed protein	1.89	0.00008	2.25	0.00011	0.15631	0.99	0.43829	0.97	0.67148	0.87519
At1g05300	metal transporter, putative (ZIP5)	1.89	0.00585	0.96	0.86669	0.03807	1.00	0.64925	1.00	0.75811	1.00000
At2g17110	expressed protein	1.88	0.01918	2.19	0.00138	0.33865	1.28	0.70399	1.30	0.59777	0.84681
No match	unknown protein	1.88	0.02295	1.89	0.03008	0.90821	1.33	0.83631	1.11	0.42367	0.77531
At1g62660	beta-fructosidase (BFRUCT3) / beta-fructofuranosidase / invertase, vacuolar	1.87	0.00487	2.05	0.00147	0.55366	1.26	0.01323	1.71	0.02111	0.15592
At1g31750	proline-rich family protein	1.87	0.02673	1.96	0.09913	0.87368	1.01	0.26253	1.00	0.41529	0.34629
At3g50970	dehydrin xero2 (XERO2) / low-temperature-induced protein LTI30 (LTI30)	1.87	0.00750	2.10	0.00120	0.50679	1.36	0.04467	1.25	0.10165	0.85532

At3g28630	expressed protein	1.86	0.00085	2.21	0.00893	0.50842	1.00	0.47297	1.00	0.62609	1.00000
At2g36830	major intrinsic family protein / MIP family protein	1.86	0.00658	3.63	0.00610	0.08631	1.59	0.15574	1.42	0.32892	0.71212
At4g28290	expressed protein	1.86	0.00851	2.26	0.00394	0.30904	1.24	0.20642	1.38	0.15616	0.38955
At5g55050	GDSL-motif lipase/hydrolase family protein	1.86	0.00002	1.46	0.00938	0.11923	1.04	0.06012	0.92	0.69906	0.15328
At2g38400	alanine--glyoxylate aminotransferase, putative / beta-alanine-pyruvate aminot	1.85	0.01811	2.45	0.01246	0.36846	1.20	0.15706	1.30	0.16430	0.44058
At2g28570	expressed protein	1.85	0.03998	3.22	0.01109	0.15341	1.00	0.15239	1.00	0.32508	1.00000
At3g43270	pectinesterase family protein	1.85	0.00028	2.17	0.00983	0.68679	2.23	0.00011	1.58	0.00850	0.10541
At3g15210	ethylene-responsive element-binding factor 4 (ERF4)	1.85	0.00398	2.34	0.00125	0.34185	1.22	0.39357	1.71	0.03355	0.25648
At1g54650	(hypothetical protein	1.85	0.00051	2.16	0.00381	0.40641	1.39	0.12079	1.27	0.35154	0.64355
At5g48470	expressed protein	1.84	0.00286	1.55	0.01705	0.57035	1.19	0.04715	1.13	0.05635	0.84898
At4g22900	expressed protein	1.84	0.01644	2.17	0.03176	0.50426	1.00	0.27404	1.00	0.45513	1.00000
At5g18960	far-red impaired responsive protein, putative	1.84	0.00808	1.78	0.06617	0.74545	0.96	0.86867	0.96	0.89522	0.95017
At1g53490	bZIP protein	1.84	0.02044	2.25	0.00985	0.27607	1.01	0.00482	0.96	0.02465	0.14158
At1g24575	expressed protein	1.84	0.00120	2.62	0.00004	0.06583	1.14	0.27234	1.02	0.57569	0.59553
At4g28140	AP2 domain-containing transcription factor, putative	1.83	0.04139	1.32	0.11228	0.60792	1.00	0.22372	1.00	0.40497	1.00000
At3g15720	glycoside hydrolase family 28 protein / polygalacturonase (pectinase) family pr	1.83	0.00024	2.40	0.00000	0.07736	1.00	0.27142	1.00	0.45261	1.00000
At4g28810	expressed protein	1.83	0.01359	1.95	0.01734	0.77004	1.00	0.33967	1.00	0.51541	1.00000
At2g02060	calcium-dependent protein kinase-related / CDPK-related	1.82	0.02027	3.03	0.01857	0.16464	1.00	0.01486	1.00	0.08482	1.00000
At3g03990	esterase/lipase/thioesterase family protein	1.82	0.00012	1.80	0.01681	0.80542	1.13	0.84911	1.23	0.48894	0.42050
At3g24250	glycine-rich protein	1.82	0.02498	2.20	0.04364	0.63373	1.00	0.00235	1.00	0.02805	1.00000
At4g24120	transporter, putative	1.82	0.00315	1.94	0.01961	0.83861	1.20	0.42257	1.11	0.69004	0.73904
At5g11430	transcription elongation factor-related	1.81	0.02744	2.48	0.00952	0.16425	1.01	0.08100	0.94	0.11567	0.12271
At4g18440	adenylosuccinate lyase, putative / adenylosuccinase, putative	1.81	0.03597	2.25	0.00169	0.38792	1.23	0.14369	1.51	0.08931	0.50881
At2g18500	ovate family protein	1.81	0.00769	2.29	0.00090	0.23373	1.00	0.84836	1.00	0.89713	1.00000
At1g69870	proton-dependent oligopeptide transport (POT) family protein	1.81	0.00136	1.95	0.00569	0.67797	1.25	0.02193	1.36	0.05013	0.65658
At4g15460	glycine-rich protein	1.79	0.03636	2.24	0.00948	0.32406	1.00	0.01461	1.00	0.08396	1.00000
At3g48350	cysteine proteinase, putative	1.78	0.00071	2.14	0.00197	0.37109	1.24	0.02135	1.49	0.03677	0.41586
At1g22340	UDP-glucuronosyl/UDP-glucosyl transferase family protein	1.77	0.00409	2.02	0.02311	0.52074	1.06	0.24361	1.05	0.35030	0.84290
At4g21470	riboflavin kinase/FAD synthetase family protein	1.77	0.01325	1.32	0.07302	0.44978	0.98	0.44388	0.96	0.50165	0.97687
At1g21980	1-phosphatidylinositol-4-phosphate 5-kinase, putative / PIP kinase, putative /	1.76	0.03337	1.96	0.04168	0.30026	1.22	0.39917	1.04	0.11174	0.16307
At3g13900	haloacid dehalogenase-like hydrolase family protein	1.76	0.04890	1.39	0.03712	0.62405	1.00	0.91095	0.95	0.51618	0.17047
At1g51880	putative protein kinase	1.75	0.01358	2.26	0.17876	0.56446	1.00	0.00001	1.00	0.00074	1.00000
At5g53120	spermidine synthase, putative / putrescine aminopropyltransferase, putative	1.75	0.00304	2.49	0.00180	0.02330	1.16	0.64100	0.95	0.67876	0.48759
At2g27390	proline-rich family protein	1.75	0.01544	2.07	0.01373	0.53906	1.18	0.96624	1.13	0.85044	0.89032
At1g21530	amp-binding protein, putative	1.75	0.03616	3.95	0.02937	0.11137	1.00	0.01551	1.00	0.08698	1.00000
At2g20550	DNAJ chaperone C-terminal domain-containing protein	1.74	0.02065	2.68	0.00431	0.01699	1.16	0.75429	1.04	0.40971	0.15884
At4g23670	major latex protein-related / MLP-related	1.74	0.00225	1.96	0.00376	0.55252	1.18	0.20369	1.27	0.08943	0.61454
At2g04795	expressed protein	1.74	0.01721	1.58	0.00196	0.91902	1.06	0.55822	0.97	0.63150	0.46639
At5g13490	ADP, ATP carrier protein 2, mitochondrial / ADP/ATP translocase 2 / adenine nu	1.74	0.00671	2.60	0.00551	0.13798	1.05	0.41381	1.18	0.81363	0.34023
At1g06640	2-oxoglutarate-dependent dioxygenase, putative	1.73	0.01058	2.38	0.00011	0.10223	1.12	0.92588	1.33	0.17218	0.10351
At1g52720	expressed protein	1.73	0.00226	2.43	0.00351	0.13250	1.20	0.01218	1.28	0.04482	0.55875
At2g29440	glutathione S-transferase, putative	1.73	0.00499	2.98	0.00488	0.01922	1.37	0.03580	1.37	0.09355	0.88693
At2g30320	tRNA pseudouridine synthase family protein	1.73	0.04645	1.72	0.28053	0.84377	1.21	0.24713	1.23	0.40682	0.91718
At3g28500	60S acidic ribosomal protein P2 (RPP2C)	1.73	0.00391	1.76	0.01270	0.80386	1.00	0.97709	1.00	0.98451	1.00000
At4g14746	expressed protein	1.72	0.03564	1.37	0.31726	0.41841	1.25	0.28531	1.17	0.62148	0.70471
At3g05640	protein phosphatase 2C, putative / PP2C, putative	1.72	0.00196	1.52	0.01910	0.51178	1.66	0.01186	1.52	0.02011	0.90955
At4g37240	expressed protein	1.72	0.03049	1.91	0.03468	0.35998	1.15	0.73217	0.96	0.27214	0.25921
At3g06500	beta-fructofuranosidase, putative / invertase, putative / saccharase, putative /	1.71	0.00468	2.92	0.00546	0.11601	1.24	0.05098	1.70	0.01891	0.06487
At3g60080	zinc finger (C3HC4-type RING finger) family protein	1.71	0.00318	1.65	0.25407	0.61730	1.18	0.83499	1.07	0.33417	0.22270
At1g70700	expressed protein	1.71	0.00307	2.30	0.00526	0.23341	1.48	0.00213	1.80	0.01196	0.14289
At2g15490	UDP-glucuronosyl/UDP-glucosyl transferase family protein	1.71	0.01183	3.98	0.00155	0.01472	1.14	0.19868	1.20	0.64149	0.60662
At4g15530	pyruvate phosphate dikinase family protein	1.71	0.00148	2.72	0.00036	0.00797	1.00	0.65913	0.80	0.12397	0.16521
At3g26400	eukaryotic translation initiation factor 4B, putative/ eIF-4B, putative	1.70	0.00274	1.89	0.00051	0.37556	1.16	0.92128	1.24	0.48734	0.55971
At4g13180	short-chain dehydrogenase/reductase (SDR) family protein	1.70	0.01773	4.05	0.00116	0.00095	1.05	0.28075	1.25	0.95594	0.43428
At3g24420	hydrolase, alpha/beta fold family protein	1.70	0.04048	1.19	0.85435	0.13990	1.10	0.38590	1.20	0.84494	0.75643
At1g32640	basic helix-loop-helix (bHLH) protein (RAP-1)	1.70	0.00538	1.82	0.00681	0.69306	1.09	0.03996	1.33	0.02882	0.01254
At4g11570	haloacid dehalogenase-like hydrolase family protein	1.70	0.00190	1.96	0.00218	0.48851	1.14	0.22885	1.21	0.04735	0.45842
At2g34810	FAD-binding domain-containing protein	1.70	0.00680	4.04	0.00095	0.01444	1.72	0.00410	2.01	0.00618	0.33545
At4g36990	heat shock factor protein 4 (HSF4) / heat shock transcription factor 4 (HSTF4)	1.69	0.00365	2.25	0.00077	0.07572	1.07	0.78291	1.20	0.69288	0.83791
At5g13220	expressed protein	1.69	0.00242	3.52	0.00413	0.00872	1.00	0.03335	1.00	0.13599	1.00000
At4g12290	copper amine oxidase, putative	1.68	0.03785	2.94	0.00423	0.02105	1.00	0.91076	1.35	0.24930	0.28064
At5g50915	basic helix-loop-helix (bHLH) family protein	1.68	0.02476	2.59	0.01243	0.23350	1.44	0.03268	1.27	0.29787	0.55315
At5g48540	33 kDa secretory protein-related	1.68	0.00220	2.47	0.00315	0.08054	1.37	0.04447	1.56	0.06188	0.51279
At3g22860	eukaryotic translation initiation factor 3 subunit 8, putative / eIF3c, putative	1.68	0.00709	1.62	0.02463	0.87413	1.00	0.10970	1.00	0.26944	1.00000
At2g39980	transferase family protein	1.67	0.01056	1.73	0.04107	0.88374	1.13	0.30424	0.96	0.96277	0.09750

At4g27510	expressed protein	1.67	0.04511	2.50	0.64420	0.38427	1.03	0.00014	1.10	0.00765	0.39005
At4g37650	short-root transcription factor (SHR)	1.67	0.00060	1.51	0.01536	0.36651	1.13	0.55656	1.05	0.89310	0.49454
At2g41380	embryo-abundant protein-related	1.67	0.02458	2.62	0.06381	0.50370	1.01	0.64734	1.33	0.11293	0.08992
At5g64750	AP2 domain-containing transcription factor, putative	1.67	0.01812	2.37	0.00620	0.18878	1.00	0.23896	1.00	0.42060	1.00000
At3g61490	glycoside hydrolase family 28 protein / polygalacturonase (pectinase) family pr	1.67	0.00884	3.63	0.00111	0.03681	1.00	0.57143	1.00	0.70128	1.00000
At2g39200	seven transmembrane MLO family protein / MLO-like protein 12 (MLO12)	1.67	0.01166	0.98	0.54228	0.08908	1.00	0.21048	1.00	0.39105	1.00000
At1g45145	thioredoxin H-type 5 (TRX-H-5) (TOUL)	1.66	0.00484	2.33	0.00181	0.11352	1.31	0.07046	1.72	0.00953	0.25381
At1g58360	amino acid permease I (AAP1)	1.66	0.03127	2.77	0.00032	0.05320	1.69	0.03043	1.48	0.13658	0.71029
At2g38540	nonspecific lipid transfer protein 1 (LTP1)	1.66	0.00213	1.45	0.01414	0.36805	1.58	0.14263	1.36	0.05152	0.74858
At2g06050	12-oxo-phytyldienoate reductase	1.65	0.01892	1.77	0.03414	0.56625	1.04	0.24580	1.12	0.31826	0.52162
At4g13110	BSD domain-containing protein	1.64	0.00909	1.63	0.03729	0.99784	1.14	0.11473	1.27	0.12562	0.18755
At2g34930	disease resistance family protein	1.64	0.00575	2.21	0.01897	0.24578	1.02	0.09894	1.00	0.27640	0.51649
At1g18630	glycine-rich RNA-binding protein, putative	1.63	0.00005	1.96	0.00002	0.01886	1.16	0.04813	1.20	0.20938	0.54772
At1g19610	plant defensin-fusion protein, putative (PDF1.4)	1.63	0.00672	1.85	0.00053	0.48890	1.00	0.60867	1.13	0.21353	0.17047
At4g27860	integral membrane family protein	1.62	0.04346	2.02	0.00779	0.32304	1.13	0.32989	1.67	0.01992	0.01417
At4g34710	arginine decarboxylase 2 (SPE2)	1.62	0.00462	3.39	0.00068	0.00955	1.23	0.04160	1.02	0.41522	0.40735
At1g13020	eukaryotic translation initiation factor, putative (EIF4B5)	1.62	0.01088	1.67	0.02825	0.79743	1.25	0.99017	1.05	0.09868	0.11651
At3g47950	ATPase, plasma membrane-type, putative / proton pump, putative	1.62	0.00215	1.85	0.00781	0.40740	1.29	0.00940	1.25	0.07625	0.73609
At4g24510	eceriferum protein (CER2)	1.62	0.00048	1.07	0.91912	0.00351	1.04	0.77250	0.95	0.34673	0.51208
At5g39050	transferase family protein	1.62	0.00441	3.98	0.00046	0.00236	1.23	0.44429	1.29	0.71589	0.99319
At3g54850	armadillo/beta-catenin repeat family protein / U-box domain-containing family	1.62	0.03391	1.45	0.13870	0.66885	1.12	0.46046	1.30	0.23464	0.23026
At1g77120	alcohol dehydrogenase (ADH)	1.62	0.04366	2.42	0.00031	0.13279	1.05	0.98172	1.01	0.67996	0.64896
At2g39210	nodulin family protein	1.61	0.02267	1.15	0.85583	0.15889	1.03	0.41706	0.94	0.24721	0.59599
At5g11260	bZIP protein HY5 (HY5)	1.61	0.00879	1.99	0.02784	0.29123	1.19	0.38412	1.08	0.79689	0.57784
At1g29730	putative receptor-like serine/threonine kinase	1.61	0.00059	2.51	0.10866	0.31810	1.11	0.00000	1.03	0.00002	0.66405
At3g48450	nitrate-responsive NOI protein, putative	1.61	0.03459	1.09	0.90321	0.13051	1.00	0.26082	1.00	0.44234	1.00000
At2g46930	pectinacetyltransferase, putative	1.61	0.00145	1.49	0.00346	0.60907	1.17	0.13411	1.23	0.09194	0.40166
At3g45060	high-affinity nitrate transporter, putative	1.61	0.01220	1.14	0.50261	0.19099	1.00	0.93107	1.00	0.95337	1.00000
At3g16660	expressed protein	1.61	0.00355	1.73	0.05953	0.94518	1.15	0.25822	1.15	0.24502	0.95451
At4g38810	calcium-binding EF hand family protein	1.61	0.00122	2.01	0.00019	0.12522	1.32	0.00152	1.26	0.02969	0.57221
At1g16850	expressed protein	1.60	0.01018	1.18	0.17118	0.41209	1.20	0.01545	0.88	0.42824	0.17167
At1g79410	transporter-related	1.59	0.00777	2.12	0.00342	0.18444	1.04	0.97247	0.99	0.65684	0.48956
At2g41890	curculin-like (mannose-binding) lectin family protein / PAN domain-containing	1.59	0.00649	2.28	0.00001	0.09898	1.16	0.00127	1.13	0.04669	0.63188
At3g04010	glycosyl hydrolase family 17 protein	1.59	0.01048	1.90	0.00016	0.33912	1.00	0.92309	1.00	0.94797	1.00000
At1g19570	dehydroascorbate reductase, putative	1.59	0.00982	1.93	0.01410	0.50182	1.22	0.01782	1.21	0.08479	0.97662
At4g02670	zinc finger (C2H2 type) family protein	1.59	0.04463	2.39	0.02214	0.33752	1.00	0.93065	1.00	0.95309	1.00000
At4g20110	vacuolar sorting receptor, putative	1.59	0.02048	2.09	0.06016	0.50073	0.90	0.69708	0.94	0.93321	0.74565
At4g15490	UDP-glucuronosyl/UDP-glucosyl transferase family protein	1.58	0.00377	3.96	0.00021	0.00065	1.20	0.39051	1.03	0.98570	0.48345
At4g27410	no apical meristem (NAM) family protein (RD26)	1.58	0.04758	1.76	0.06061	0.63768	2.02	0.08054	1.86	0.04033	0.75435
At1g44100	amino acid permease 5, putative (AAP5)	1.58	0.00322	1.28	0.07735	0.25785	1.16	0.11130	1.19	0.21246	0.90984
At5g64920	COP1-interacting protein (CIP8) / zinc finger (C3HC4-type RING finger) family	1.57	0.00056	1.69	0.00038	0.50134	1.10	0.81179	1.15	0.42743	0.58666
At1g75900	family II extracellular lipase 3 (EXL3)	1.57	0.03770	0.83	0.22820	0.04671	1.22	0.05435	1.18	0.19690	0.79070
At5g57800	CER1 protein, putative (WAX2)	1.57	0.02854	1.21	0.71104	0.22803	1.23	0.15509	1.12	0.97979	0.26840
At2g31990	exostosin family protein	1.57	0.04800	1.56	0.25343	0.88335	1.02	0.00120	1.10	0.07755	0.18187
At4g21910	MATE efflux family protein	1.56	0.00481	1.73	0.00542	0.40620	1.23	0.20443	1.04	0.39048	0.68550
At1g04980	thioredoxin family protein	1.56	0.04178	3.02	0.01465	0.04759	0.83	0.16881	0.79	0.24753	0.64291
At2g46370	auxin-responsive GH3 family protein	1.56	0.00450	2.02	0.00146	0.14459	0.94	0.46936	0.99	0.29106	0.63671
At4g28520	12S seed storage protein, putative / cruciferin, putative	1.56	0.02878	1.01	0.70729	0.13282	1.00	0.68227	1.00	0.78171	1.00000
At4g37520	peroxidase 50 (PER50) (P50) (PRXR2)	1.56	0.00999	3.16	0.00114	0.00523	1.01	0.46268	2.15	0.05325	0.05923
At1g51090	heavy-metal-associated domain-containing protein	1.55	0.00522	1.01	0.51957	0.04961	1.14	0.07708	1.28	0.20110	0.76015
At3g26840	esterase/lipase/thioesterase family protein	1.55	0.00339	4.50	0.00023	0.00260	1.06	0.83284	1.21	0.29968	0.32483
At3g07180	GPI transamidase component PIG-S-related	1.55	0.00367	1.49	0.07664	0.71367	1.04	0.45054	1.06	0.72937	0.68234
At2g30140	UDP-glucuronosyl/UDP-glucosyl transferase family protein	1.55	0.03850	4.33	0.00080	0.00754	1.02	0.70937	1.09	0.85731	0.99204
At3g47200	expressed protein	1.55	0.00972	2.56	0.00554	0.08195	1.00	0.54356	1.00	0.68042	1.00000
At3g29575	expressed protein	1.55	0.00576	1.33	0.02882	0.60758	1.69	0.16675	0.91	0.49576	0.42844
At3g56850	ABA-responsive element-binding protein 3 (AREB3)	1.54	0.00107	1.42	0.03021	0.52895	1.26	0.04229	1.10	0.53017	0.23380
At3g16460	jacalin lectin family protein	1.54	0.03423	1.98	0.00238	0.26500	0.97	0.88320	0.95	0.98185	0.91239
At1g47960	invertase/pectin methyltransferase inhibitor family protein	1.54	0.02189	2.71	0.00056	0.00993	1.22	0.33350	1.46	0.09655	0.21256
At2g24730	60S ribosomal protein L4/L1 (RPL4C), pseudogene	1.54	0.02323	1.79	0.02873	0.48724	1.25	0.38281	1.15	0.87742	0.61267
At5g04250	OTU-like cysteine protease family protein	1.54	0.01436	1.83	0.00003	0.29676	1.00	0.41550	1.00	0.57991	1.00000
At4g25640	MATE efflux family protein	1.54	0.01600	1.61	0.05931	0.78251	1.14	0.52419	1.02	0.83180	0.26315
At3g12145	polygalacturonase inhibitor, putative / leucine-rich repeat protein (FLR1)	1.54	0.00983	2.65	0.00405	0.01887	1.14	0.08504	1.90	0.01624	0.00680
No match	unknown protein	1.54	0.04480	2.48	0.84629	0.25108	1.00	0.00011	1.00	0.00420	0.17047
At1g08800	expressed protein	1.54	0.03624	1.44	0.04284	0.89440	1.06	0.37773	1.07	0.42238	0.86614
At1g21160	eukaryotic translation initiation factor 2 family protein / eIF-2 family protein	1.54	0.03344	1.38	0.05273	0.73284	1.29	0.04985	1.35	0.03337	0.71609

At5g36300	pseudogene, pentatricopeptide (PPR) repeat-containing protein	1.54	0.03416	1.78	0.24392	0.63107	1.02	0.00005	1.02	0.00220	0.99150
At1g28230	purine permease (PUP1)	1.53	0.02736	1.67	0.05327	0.81094	1.11	0.60942	1.29	0.04671	0.28430
At1g52410	caldesmon-related	1.53	0.01401	2.42	0.00358	0.05247	1.61	0.01594	1.69	0.03059	0.73518
At5g41400	zinc finger (C3HC4-type RING finger) family protein	1.53	0.03167	2.49	0.00745	0.05820	1.04	0.49685	0.87	0.10186	0.25591
At2g31020	oxysterol-binding family protein	1.53	0.01695	1.36	0.06024	0.51562	1.00	0.10141	1.00	0.25763	1.00000
At1g62570	flavin-containing monooxygenase family protein / FMO family protein	1.52	0.04832	2.45	0.00047	0.09360	0.97	0.58831	1.01	0.92477	0.60367
At2g38750	annexin 4 (ANN4)	1.52	0.01471	1.39	0.02674	0.94729	1.31	0.00422	1.23	0.06469	0.61454
At1g68875	expressed protein	1.52	0.03311	1.58	0.01266	0.76365	0.89	0.47270	1.00	0.76356	0.51649
At2g27310	F-box family protein	1.52	0.02589	1.80	0.03890	0.20113	1.20	0.17299	1.22	0.31833	0.93519
At2g41260	glycine-rich protein / late embryogenesis abundant protein (M17)	1.52	0.00520	1.19	0.13516	0.16342	1.00	0.94645	1.00	0.96379	1.00000
At4g02710	kinase interacting family protein	1.52	0.04242	1.73	0.05637	0.49372	1.00	0.01747	0.98	0.06523	0.17047
At3g07030	pseudogene, similar to OSJNBa0042L16.13	1.51	0.02580	1.78	0.05068	0.50881	1.11	0.57480	1.22	0.93407	0.73192
At5g63120	ethylene-responsive DEAD box RNA helicase, putative (RH30)	1.51	0.04663	2.08	0.00013	0.10535	1.18	0.09909	1.06	0.65526	0.02493
At3g44770	hypothetical protein	1.51	0.03092	1.77	0.00420	0.43869	1.00	0.58705	1.00	0.71285	1.00000
At3g07700	ABC1 family protein	1.51	0.01646	2.40	0.00029	0.02425	1.07	0.55658	1.01	0.93163	0.66537
At1g17550	protein phosphatase 2C-related / PP2C-related	1.51	0.01983	1.35	0.10073	0.47077	1.01	0.52734	1.07	0.88146	0.72209
At5g66580	expressed protein	1.51	0.04531	1.83	0.04702	0.22512	0.88	0.32917	1.06	0.98656	0.32635
At4g10120	sucrose-phosphate synthase, putative	1.50	0.03018	1.25	0.04941	0.57629	0.86	0.47210	0.65	0.05814	0.19391
At2g28510	Dof-type zinc finger domain-containing protein	1.50	0.00101	2.32	0.00043	0.02787	1.24	0.00254	1.24	0.01584	0.95469
At3g53640	protein kinase family protein	1.50	0.03079	2.05	0.02795	0.41185	1.00	0.82841	1.00	0.88348	1.00000
At3g23220	ethylene-responsive element-binding protein, putative	1.50	0.03738	1.90	0.00878	0.06262	1.23	0.73895	1.15	0.42601	0.78784
At3g22670	pentatricopeptide (PPR) repeat-containing protein	1.50	0.03182	1.29	0.03345	0.70778	1.00	0.13530	1.00	0.30373	1.00000
At1g77855	hypothetical protein	1.50	0.01934	1.78	0.08184	0.56991	1.00	0.47920	1.00	0.63098	1.00000
At3g28270	expressed protein	1.50	0.04801	1.06	0.23405	0.34242	2.62	0.08932	1.28	0.09970	0.54744
At1g11840	lactoylglutathione lyase, putative / glyoxalase I, putative	1.50	0.00257	1.77	0.00085	0.20945	1.29	0.00654	1.27	0.06864	0.79711
At3g57450	expressed protein	1.50	0.01524	1.29	0.09431	0.50378	1.25	0.13256	1.30	0.13959	0.79950
At3g28450	leucine-rich repeat transmembrane protein kinase, putative	2.67	0.67319	3.16	0.76057	0.47595	1.64	0.03180	1.34	0.03170	0.52212
At3g49070	expressed protein	1.49	0.01901	2.88	0.00361	0.03768	1.52	0.00184	1.44	0.03519	0.56841
At1g52000	jacalin lectin family protein	1.45	0.01544	2.02	0.00099	0.15505	1.50	0.01033	1.62	0.00723	0.63297
At4g37540	LOB domain protein 39 / lateral organ boundaries domain protein 39 (LBD39)	1.43	0.01891	1.11	0.24747	0.31244	1.59	0.02120	1.52	0.01321	0.97925
At3g44380	expressed protein	1.43	0.00598	1.87	0.17057	0.26142	1.52	0.00640	1.46	0.02734	0.79880
At1g01470	late embryogenesis abundant protein, putative / LEA protein, putative	1.42	0.03438	1.48	0.01940	0.68959	1.68	0.01609	1.10	0.22673	0.22547
At1g69410	eukaryotic translation initiation factor 5A, putative / eIF-5A, putative	1.42	0.00045	2.04	0.00030	0.00058	1.52	0.00398	1.60	0.00209	0.60258
At2g38180	GDSL-motif lipase/hydrolase family protein	1.35	0.09682	1.46	0.00919	0.59411	1.51	0.00584	1.67	0.00803	0.54872
At5g52390	photoassimilate-responsive protein, putative	1.34	0.21634	1.21	0.66138	0.64877	5.37	0.02614	1.28	0.28273	0.18134
At1g52000	jacalin lectin family protein	1.32	0.08380	1.63	0.02223	0.46098	1.53	0.02374	1.56	0.02141	0.77679
At1g73480	hydrolase, alpha/beta fold family protein	1.30	0.04968	1.12	0.09499	0.63130	1.56	0.00918	2.07	0.00049	0.20292
At3g19030	expressed protein	1.30	0.02207	1.11	0.17331	0.39739	1.67	0.01682	1.53	0.02422	0.99741
At2g05440	glycine-rich protein	1.28	0.28043	1.15	0.31227	0.84550	1.94	0.01790	3.09	0.00074	0.11901
At2g43100	aconitase C-terminal domain-containing protein	1.27	0.47127	1.67	0.13321	0.41449	1.59	0.01252	1.55	0.08836	0.83878
At1g19180	expressed protein	1.26	0.00972	1.57	0.02044	0.12673	1.50	0.00779	1.79	0.01321	0.40840
At2g36120	pseudogene, glycine-rich protein	1.26	0.03622	1.35	0.26932	0.96999	1.83	0.00760	2.78	0.00011	0.08188
At1g03820	expressed protein	1.13	0.31975	0.87	0.68262	0.21792	2.39	0.00048	1.44	0.08293	0.06898
At1g28400	expressed protein	1.12	0.08619	0.81	0.63839	0.00733	2.35	0.00040	1.33	0.05618	0.03242
At5g09530	hydroxyproline-rich glycoprotein family protein	1.09	0.85627	1.03	0.96191	0.90947	5.69	0.00000	1.46	0.13264	0.00085
At1g02820	late embryogenesis abundant 3 family protein / LEA3 family protein	1.01	0.10446	1.01	0.88780	0.55817	1.99	0.01301	1.19	0.02963	0.26927
At4g09030	arabinogalactan-protein (AGP10)	1.00	0.04724	1.32	0.01716	0.02300	1.90	0.00005	1.35	0.02068	0.04875
At3g28300	integrin-related protein 14a	0.78	0.71576	0.50	0.06510	0.07218	1.97	0.04242	1.44	0.00538	0.91247

Table S2. Genes suppressed by *Spodoptera littoralis* oral secretions (OS).

Expression changes in response to wounding or OS treatment were compared to data from a similar experiment comparing insect feeding with wounding. *P*-values refer to the comparison between wounding and OS treatment or between wounding and insect treatment (Student's *t*-test).

^aData from this study. Expression ratios (\pm SE) are the average of six (wounding) and three (OS) independent experiments.

^bData from Reymond et al. 2004 (Plant Cell 16:3132-3147). Expression ratios (\pm SE) are the average of four (wounding) and five (insect feeding) independent experiments. All treatments were done for 3-5 h. NA, gene not present on the microarray.

AGI code	Description	Expression ratio ^a			Expression ratio ^b				
		Wounding	<i>S. littoralis</i> OS	<i>P</i> -value	Wounding	<i>S. littoralis</i>	<i>P</i> -value	<i>P. rapae</i>	<i>P</i> -value
Treatment 6 h									
At5g61890	ERF/AP2 transcription factor	3.32 \pm 0.59	1.41 \pm 0.28	<0.001	NA	NA	NA	NA	NA
At3g20470	glycine-rich protein (GRP-5)	2.15 \pm 0.15	1.22 \pm 0.12	<0.001	NA	NA	NA	NA	NA
At4g18280	glycine-rich protein	2.04 \pm 0.15	1.22 \pm 0.04	<0.001	NA	NA	NA	NA	NA
At1g73330	protease inhibitor (DR4)	1.96 \pm 0.26	1.11 \pm 0.11	<0.001	1.07 \pm 0.12	0.99 \pm 0.02	0.54	1.05 \pm 0.03	0.97
At1g05300	metal transporter (ZIP5)	1.89 \pm 0.30	0.96 \pm 0.10	<0.01	NA	NA	NA	NA	NA
At4g24510	eceriferum protein (CER2)	1.62 \pm 0.09	1.07 \pm 0.05	<0.001	2.57 \pm 0.34	1.04 \pm 0.13	<0.01	1.37 \pm 0.09	<0.01
At1g75900	extracellular lipase 3 (EXL3)	1.57 \pm 0.30	0.83 \pm 0.12	<0.05	1.61 \pm 0.17	0.95 \pm 0.03	<0.01	1.00 \pm 0.03	<0.01
At1g51090	heavy-metal-associated protein	1.55 \pm 0.14	1.01 \pm 0.15	<0.01	NA	NA	NA	NA	NA
Treatment 24 h									
At3g22620	protease inhibitor	5.34 \pm 0.62	1.60 \pm 0.28	<0.001	1.27 \pm 0.10	0.89 \pm 0.08	<0.05	0.84 \pm 0.03	<0.01
At5g09530	hydroxyproline-rich glycoprotein	5.69 \pm 0.71	1.46 \pm 0.32	<0.001	1.39 \pm 0.03	1.05 \pm 0.10	<0.05	1.05 \pm 0.04	<0.01
At5g05340	peroxidase	2.96 \pm 0.35	1.56 \pm 0.18	<0.001	NA	NA	NA	NA	NA
At1g28400	unknown protein	2.35 \pm 0.38	1.33 \pm 0.06	<0.001	1.19 \pm 0.06	0.94 \pm 0.06	<0.05	0.82 \pm 0.07	<0.01
At4g09030	arabinogalactan-protein (AGP10)	1.90 \pm 0.14	1.35 \pm 0.20	<0.001	NA	NA	NA	NA	NA