

**Supplemental data IV**

**Fold variations (FV) and absolute call flags (F) of tunicamycin upregulated genes passing 1,000-2P-2 criteria  
(114 genes + 2 nulls)**

(T#), number of entries passing the restriction for this gene.

Affymetrix code	Description	hours 0		2+		2		5+		5	
		FV	F	FV	F	FV	F	FV	F	FV	F
12042_at	unknown protein	1	P	1.895	P	0.857	P	5.371	P	0.879	P
12092_at	unknown protein	1	P	0.866	P	1.173	P	2.398	P	0.451	A
12118_at	unknown protein	1	P	2.132	P	0.486	P	1.788	P	0.507	P
12150_at	unknown protein	0.954	P	0.984	P	1.285	P	2.372	P	1	P
12159_at	unknown protein	0.839	P	1.495	P	1	P	2.124	P	0.781	P
12279_at	putative receptor-like protein kinase	1	P	0.357	A	0.679	P	2.026	P	1.042	P
12286_s_at	Snf1-related protein kinase KIN11 (AKIN11)	0.905	A	1.975	P	1	P	2.091	P	0.933	A
12623_at	similar to red-1 (related to thioredoxin) gene	0.932	P	0.898	P	1	P	2.035	P	1.115	P
12738_r_at	photosystem II type I chlorophyll a/b binding protein (null)	1.57	P	0.68	P	1	P	2.441	P	0.659	P
12758_at	unknown protein	1	A	1.155	P	0.735	A	2.008	P	0.718	A
12883_at	stromal ascorbate peroxidase	0.917	P	1.74	P	1	P	2.33	P	0.872	P
12939_s_at	putative thiol protease	0.845	A	1.849	P	1	A	2.457	P	0.72	A
13015_s_at	zinc finger protein	0.816	P	1	P	1.249	P	4.673	P	0.073	A
13048_s_at	putative basic blue protein (plantacyanin)	1	P	2.332	P	0.435	A	0.742	A	2.144	P
13067_s_at	calreticulin-2 (AtCTRL2) (T3)	1	P	4.311	P	0.893	P	8.838	P	0.977	P
13091_r_at	sec61 beta-subunit homolog	0.886	P	1.914	P	1	P	2.859	P	0.979	P
13097_at	unknown protein	1	P	1.031	P	0.937	P	2.079	P	0.998	P
13102_at	putative protein transport protein SEC61 alpha subunit	0.913	P	2.579	P	0.835	P	3.342	P	1	P
13123_at	unknown protein	0.759	P	1	P	1.038	P	2.585	P	0.582	P
13134_s_at	putative galactinol synthase	1	P	0.718	P	0.898	P	2.48	P	1.048	P
13177_at	growth factor like protein	0.77	P	1.448	P	1	P	3.048	P	0.876	P
13297_at	auxin-responsive protein IAA2	1.199	P	0.831	P	1	P	2.951	P	0.656	P
13503_at	putative cytochrome oxidase biogenesis protein	1	A	2.272	P	0.632	A	1.413	P	0.633	A
13591_at	unknown protein (T2)	0.903	P	5.061	P	1	P	6.647	P	0.995	P
13600_at	putative protein transport factor	1	A	2.263	P	0.832	A	3.701	P	0	A
13642_at	unknown protein	3.687	P	1	A	0.631	P	2.889	P	0.751	A
13785_at	cold-regulated protein cor15b precursor	1	P	2.872	P	0.794	A	5.52	P	0	A
13958_at	PPR-repeat protein	1	P	2.091	P	0.73	P	1.06	P	0.935	A
14036_at	protein disulfide-isomerase-like protein	1	P	1.058	P	0.866	P	3.086	P	0.847	P
14061_at	putative phosphomannomutase	0.996	P	1.034	P	1	P	2.826	P	0.639	P
14078_at	unknown protein	0.994	P	2.629	P	1	P	3.928	P	0.984	P
14381_at	UDP-galactose transporter, AtUtr1	1	P	4.986	P	0.6	P	8.701	P	0.69	P
14471_at	similar to human OS-9 precursor	0.943	A	3.579	P	1	A	7.019	P	0.689	A
14487_at	HSP like protein	1	P	2.865	P	0.56	P	8.326	P	0.248	A
14506_at	putative flavonol 3-O-glucosyltransferase	0.623	M	0.893	P	1	P	2.735	P	1.006	A
14660_at	putative thioredoxin reductase	0.954	P	2.2	P	1	P	1.184	P	0.841	P
14832_at	tyrosine transaminase like protein	1	P	2.758	P	0.89	P	0.862	P	1.318	P
14867_at	putative mitochondrial carrier protein	0.541	P	1.566	P	1	P	2.086	P	0	A
15004_at	putative microtubule-associated protein	1	P	1.227	P	0.792	P	2.926	P	0.914	P
15026_at	unknown protein	0.914	P	1.803	P	0.789	P	3.72	P	1	P
15098_s_at	senescence-associated protein sen1	0.68	P	2.002	P	1.402	P	0.411	P	1	P
15172_s_at	BiP	0.927	P	3.687	P	0.8	P	4.452	P	1	P
15183_s_at	plastid RNA polymerase sigma-subunit	1.789	P	0.958	P	1	P	2.124	P	0.072	A
15438_at	unknown protein	1	P	2.561	P	0.84	P	1.446	P	0.963	P
15539_at	unknown protein	0.66	P	0.181	P	1.465	P	2.791	P	1	A
15654_at	calreticulin-1	0.682	P	1.406	P	0.853	P	2.232	P	1	P
15774_at	unknown protein	0.915	P	2.191	P	0.812	M	2.121	P	1	M
15839_at	unknown protein	0.73	P	1.402	P	0.925	P	4.256	P	1	P
15884_at	unknown protein	0.603	A	1	P	1.012	A	2.066	P	0.99	A
15976_at	putative protein disulfide isomerase	0.805	P	2.102	P	0.947	P	4.502	P	1	P
15996_at	jasmonate inducible protein isolog.	0.967	P	3.737	P	1.268	P	1	P	0.57	P
16023_at	putative LEA (late embryogenesis abundant)	1	P	1.453	P	0.963	P	2.126	P	0.839	P
16043_at	putative phragmoplastin	1	P	3.7	A	0.477	P	0.938	M	3.179	A
16299_at	unknown protein	0.944	M	3.191	P	1	P	1.905	P	0.566	P
16311_at	unknown protein	0.773	P	5.885	P	1	P	16.141	P	0.856	P
16364_at	BiP-like	1	A	83.722	P	0.321	A	339.51	P	0	A
16448_g_at	HSP-90 (T3)	0.794	P	3.563	P	0.687	P	7.606	P	1	P
16483_at	transcription factor	0.843	A	1.653	P	1	A	3.422	P	0.696	A
16603_s_at	UDP-glucose:indole-3-acetate beta-D-glucosyltransferase	1	P	1.648	P	0.886	P	2.3	P	0.945	P
16847_at	DNA-directed RNA polymerase	0.996	P	1.399	P	0.979	P	1	P	2.386	A
16950_s_at	sec61 beta-subunit homolog	1	P	4.271	P	0.926	P	2.703	P	0.683	P
17014_s_at	ribonuclease, RNS1	0.803	P	2.483	P	1	P	1.803	P	0.968	P
17045_at	trehalose-6-phosphate phosphatase (AtTPPB)	1	P	0.852	A	2.74	P	2.363	P	0.428	A
17054_s_at	Lhcb4:3 protein	0.831	P	2	P	1	P	2.717	P	0.701	P

17109_s_at	beta-glucosidase	1	P	0.894	P	1.098	P	11.914	P	0.915	P
17219_s_at	putative ATP-dependent RNA helicase A	1.192	P	1	A	0.691	A	2.087	P	0.765	A
17303_s_at	AtWRKY-33	0.505	P	1.352	P	0.526	P	2.059	P	1	P
17398_at	putative protein disulfide-isomerase	1	P	1.738	P	0.599	P	5.022	P	0.759	P
17417_at	putative GTP-binding protein, SAR1B	0.757	A	13.874	P	1	A	29.167	P	0.518	A
17473_at	calnexin, CNX1	1	P	2.643	P	0.955	P	5.897	P	0.945	P
17832_at	class 1 non-symbiotic hemoglobin	0.535	M	2.181	P	0.997	P	1.217	P	1	A
17849_s_at	respiratory burst oxidase protein B	0.173	A	34.216	P	0	A	78.659	P	1	A
17865_at	isoflavonoid reductase homologue	1	P	0.875	P	1.105	P	2.542	P	0.937	P
17882_at	protein transport protein sec61 gamma subunit-like	1	P	3.469	P	0.896	P	3.637	P	0.887	P
17894_at	unknown protein	0.706	P	1	P	0.773	P	2.182	P	1.118	P
17922_at	pyruvate decarboxylase	1	P	1.469	P	0.981	P	2.178	P	0.757	P
17924_at	calnexin	1	P	3.661	P	0.917	P	6.697	P	0.987	P
18140_at	growth regulator like protein	1	P	3.785	P	0.751	A	10.87	P	0.468	A
18246_at	similar to GATA-binding transcription factors	1	P	2.166	P	0.961	P	1.586	P	0.801	P
18268_s_at	putative ubiquitin	1	A	3.606	P	0.869	A	5.395	P	0.664	A
18591_at	ATAF2	0.721	P	0.611	P	1.459	P	2.321	P	1	P
18623_at	unknown protein	0.699	M	0.989	A	1	M	3.012	P	1.645	P
18625_at	unknown protein	1.379	P	0.956	A	1	A	4.092	P	0.704	A
18665_r_at	photosystem I subunit IV precursor	1.462	P	1	P	0.85	P	2.946	P	0.81	P
18670_g_at	beta-amylase enzyme (T2)	1.122	P	1	P	0.983	P	2.51	P	0.845	P
18675_at	GPT (T2)	1	P	3.209	P	0.413	P	6.07	P	0.911	P
18699_i_at	cold regulated (T2)	1	P	1.805	P	0.311	P	3.057	P	0.973	P
18946_at	peroxidase ATP24a	1	P	0.684	A	1.013	P	2.308	P	0.932	P
18954_at	putative cysteine proteinase inhibitor B (cystatin B)	0.972	P	1.371	P	1	P	6.162	P	0.704	P
18975_g_at	unknown protein	1	P	1.588	P	0.721	M	2.02	P	0.925	P
18977_at	putative glutathione S-transferase TSI-1	1.221	P	1	P	0.979	P	2.309	P	0.971	P
19176_at	unknown protein	1	P	1.367	P	0.847	P	2.234	P	0.97	P
19212_at	similar to vesicle trafficking protein	0.913	P	1.854	P	1	P	3.659	P	0.667	P
19253_at	unknown protein	1.037	A	0.805	A	1	A	2.277	P	0.942	P
19366_at	carnitine racemase like protein	0.964	P	1.355	P	0.967	P	2.208	P	1	P
19457_at	putative protein disulfide isomerase	0.859	P	3.211	P	1	P	6.816	P	0.604	P
19624_at	cytochrome c	1	P	0.557	P	1.046	P	2.003	P	0.53	M
19648_at	similar to coatamer alpha subunit (HEPCOP)	0.965	P	1.85	P	1	P	2.834	P	0.938	P
19692_at	putative calcium-dependent protein kinase	1	P	0.574	P	1.972	P	3.319	P	0.932	P
19860_at	transcription factor hap5b	0.869	P	2.067	P	0.807	P	3.052	P	1	A
19944_at	stress related protein, putative	1	P	1.378	P	0.745	P	2.003	P	0.629	M
19951_at	unknown protein	0.58	P	2.381	P	0.808	P	1	P	1.386	P
20032_at	unknown protein	1	P	3.033	P	0.981	P	5.451	P	0.662	P
20060_at	putative glutathione S-transferase TSI-1 (T2)	1	P	2.458	P	0.977	P	1.774	P	0.716	A
20069_at	unknown protein	0.944	P	0.758	P	1	P	3.284	P	1.031	P
20178_at	unknown protein	0.966	P	4.633	P	1	P	5.378	P	0.908	P
20214_i_at	ER-type calcium-transporting ATPase 4 (T2)	0.829	P	1.762	P	1	P	2.829	P	0.598	A
20224_at	glucose-6-phosphate 1-dehydrogenase	0.75	P	1.7	P	1	P	2.105	P	0.822	P
20227_s_at	f-AtMBP	0.864	M	2.357	P	0.584	A	1	M	1.477	P
20229_at	similar to vacuolar H+-pyrophosphatase	1	P	1.526	P	0.929	P	2.727	P	0.929	P
20475_at	putative AAA-type ATPase	0.992	P	1	P	0.887	P	3.276	P	1.153	P
20524_at	similar to flavin-containing monooxygenase	1	P	3.402	P	1.713	P	0.55	M	0.796	A
20551_at	unknown protein	1	P	1.496	P	0.928	P	2.058	P	0.973	P
20624_at	unknown protein	0.715	P	0.814	P	1.568	P	2.181	P	1	P
20669_at	unknown protein	1.759	A	2.889	P	0.757	P	1	P	0.963	A
AFFX-Athal-25SrRNA_s_at (null)		0.959	P	2.437	P	1	P	1.909	P	0.567	P