

Appendix

***X. laevis* genes induced by 100 nM TCDD exposure for 3 hours.**

Shared Comparison	Description	Probe Set	Fold Change
1	TCDD - DMSCDNA clone IMAGE:6940776	XI.1220.1.S1_at	6.6992519
1	TCDD - DMSCTranscribed locus	XI.11097.1.S1_at	2.145033234
0	TCDD - DMSCTranscribed locus, moderately similar to XP_001060648.1 PREDICTED: sin	XI.9596.1.A1_at	2.071965527
0	TCDD - DMSCTranscribed locus, moderately similar to XP_001060648.1 PREDICTED: sin	XI.23611.1.A1_x_at	1.765405993
1	TCDD - DMSCCytochrome P450, complete cds, clone MC1	XI.1692.1.S1_at	1.719115727
0	TCDD - DMSCLapl04 mRNA, complete sequence	XI.21677.2.A1_at	1.628638787
1	TCDD - DMSCTranscribed locus	XI.7045.1.S1_x_at	1.439266083
1	TCDD - DMSCC3H-2: CCCH zinc finger protein C3H-2	XI.475.1.S1_s_at	1.426684833
1	TCDD - DMSCMGC81225: hypothetical protein MGC81225	XI.16594.2.A1_at	1.34567809
1	TCDD - DMSChyal2: hyaluronidase 2	XI.6247.1.S1_at	1.286394669
0	TCDD - DMSCMGC83793: hypothetical protein MGC83793	XI.6972.1.A1_at	1.258175639
1	TCDD - DMSCbvm-a: basic, immunoglobulin-like variable motif-containing protein	XI.4066.1.S1_at	1.252953899
1	TCDD - DMSCaldoc: aldolase C, fructose-bisphosphate	XI.8701.1.S1_a_at	1.250062303
1	TCDD - DMSCMGC79057: hypothetical protein MGC79057	XI.18385.1.A1_at	1.248330549
1	TCDD - DMSCMGC80329: MGC80329 protein	XI.25548.1.A1_at	1.239134966
1	TCDD - DMSCMGC53121: hypothetical protein MGC53121	XI.8379.1.S1_at	1.234562607
1	TCDD - DMSCMGC53732: similar to CDC42 effector protein (Rho GTPase binding) 2	XI.7782.1.S1_at	1.211952649
1	TCDD - DMSCLOC496352: hypothetical LOC496352	XI.5956.1.S1_at	1.193887309
1	TCDD - DMSCMGC80877: MGC80877 protein	XI.4306.1.S1_at	1.189481912
1	TCDD - DMSCLIC1: chloride intracellular channel protein 1	XI.24738.1.S1_at	1.178539408
0	TCDD - DMSCMGC115420: hypothetical protein MGC115420	XI.19589.1.S1_at	1.158828175
0	TCDD - DMSCMGC79074: MGC79074 protein	XI.11557.1.A1_at	1.155886707
1	TCDD - DMSCTranscribed locus, moderately similar to XP_577689.2 PREDICTED: similar	XI.7441.1.A1_at	1.148167666
0	TCDD - DMSCTranscribed locus	XI.21838.1.A1_at	1.143138335
1	TCDD - DMSCLOC495354: hypothetical LOC495354	XI.15811.1.A1_at	1.134979836
1	TCDD - DMSMyd88-A: Toll/IL-1 receptor binding protein MyD88	XI.700.1.S1_at	1.124538717
0	TCDD - DMSCMGC64296: hypothetical protein MGC64296	XI.4168.1.S1_at	1.123240349
0	TCDD - DMSCTranscribed locus, moderately similar to XP_001074512.1 PREDICTED: sin	XI.5950.1.A1_at	1.119354233
1	TCDD - DMSccalm2a: calmodulin 2-like	XI.24457.1.S1_at	1.117803554
0	TCDD - DMSCMGC68674: Hypothetical protein MGC68674	XI.24384.2.S1_at	1.114708637
1	TCDD - DMSCMGC64430: Hypothetical protein MGC64430	XI.24392.1.S1_at	1.071773463

***X. laevis* genes repressed by 100 nM TCDD exposure for 3 hours.**

Shared Comparison	Description	Probe Set	Fold Change
0	TCDD - DMSCMGC68535: hypothetical protein MGC68535	XI.4788.2.A1_at	1.985726138
0	TCDD - DMSCLOC398071: mis5p	XI.3661.1.S1_at	1.925633751
0	TCDD - DMSCriok2: RIO kinase 2 (yeast)	XI.1664.3.A1_at	1.436608211
1	TCDD - DMSCTranscribed locus, weakly similar to XP_001067472.1 PREDICTED: similar	XI.24254.1.A1_at	1.250351162
0	TCDD - DMSCMGC81672: MGC81672 protein	XI.21239.1.A1_at	1.248619008
0	TCDD - DMSCTranscribed locus, moderately similar to XP_226175.4 PREDICTED: similar	XI.16510.2.A1_at	1.236846673
1	TCDD - DMSCTranscribed locus	XI.22799.1.A1_at	1.184271612
0	TCDD - DMSCTranscribed locus	XI.4196.1.A1_at	1.17609125
0	TCDD - DMSCMGC81404: Hypothetical protein MGC81404	XI.12195.1.A1_at	1.155886707
1	TCDD - DMSCTranscribed locus, weakly similar to XP_308048.2 ENSANGP00000019431	XI.4149.1.A1_at	1.149229289
1	TCDD - DMSCMGC82864: MGC82864 protein	XI.6759.1.A1_at	1.14843298
1	TCDD - DMSCTranscribed locus	XI.25388.1.A1_at	1.087488391

Appendix

X. laevis genes induced by 100 nM FICZ exposure for 3 hours.

Shared Comparison	Description	Probe Set	Fold Change
1 FICZ - DMSO	CDNA clone IMAGE:6940776	XI.1220.1.S1_at	16.83042847
0 FICZ - DMSO	SYNE1: similar to spectrin repeat containing, nuclear envelope 1	XI.14119.1.S1_at	6.711646198
1 FICZ - DMSO	Transcribed locus	XI.11097.1.S1_at	6.184541602
0 FICZ - DMSO	Transcribed locus, weakly similar to XP_420865.1 PREDICTED: similar to GXI.7783.1.A1_at	XI.14954.1.A1_at	5.886186824
0 FICZ - DMSO	MGC52735: similar to gap junction protein, alpha 7, 45kDa (connexin 45)	XI.3337.1.S2_at	5.152716911
0 FICZ - DMSO	Transcribed locus, weakly similar to XP_234399.4 PREDICTED: similar to A XI.18681.1.A1_at	XI.18681.1.A1_at	4.17564771
0 FICZ - DMSO	Transcribed locus	XI.14954.1.A1_at	3.148504363
0 FICZ - DMSO	Transcribed locus, weakly similar to NP_001013229.1 proline rich protein 2	XI.13754.2.A1_at	3.144142633
0 FICZ - DMSO	Transcribed locus	XI.14584.1.A1_at	2.890528573
0 FICZ - DMSO	Transcribed locus	XI.23236.1.A1_at	2.821247692
0 FICZ - DMSO	Transcribed locus	XI.12789.1.A1_at	2.622604028
0 FICZ - DMSO	Transcribed locus	XI.25124.1.A1_at	2.585900325
0 FICZ - DMSO	PECAM: platelet endothelial cell adhesion molecule	XI.2357.1.A1_at	2.546766455
0 FICZ - DMSO	Transcribed locus	XI.25275.1.A1_at	2.386120112
1 FICZ - DMSO	Transcribed locus	XI.7045.1.S1_x_at	2.380613368
0 FICZ - DMSO	Transcribed locus	XI.7045.1.S1_a_at	2.340256506
0 FICZ - DMSO	Transcribed locus	XI.15009.1.A1_at	2.31551537
0 FICZ - DMSO	tef: thyrotrophic embryonic factor	XI.16518.1.S1_at	2.216576775
0 FICZ - DMSO	pmp22: peripheral myelin protein 22	XI.11939.1.A1_at	2.17900071
0 FICZ - DMSO	MGC85390: MGC85390 protein	XI.23887.1.A1_at	2.123827608
0 FICZ - DMSO	Transcribed locus, weakly similar to XP_553282.1 ENSANGP00000025654	XI.25142.1.A1_at	2.101860129
0 FICZ - DMSO	Transcribed locus	XI.14954.2.S1_at	2.064320057
1 FICZ - DMSO	Cytochrome P450, complete cds, clone MC1	XI.1692.1.S1_at	2.062889675
0 FICZ - DMSO	KCNE5.1: voltage-gated potassium channel subunit MiRP4.1	XI.16370.1.S1_at	2.049587147
0 FICZ - DMSO	thbs3: thrombospondin 3	XI.198.1.S1_at	1.939027593
0 FICZ - DMSO	snag1: sorting nexin associated golgi protein 1	XI.8253.1.A1_at	1.854032671
0 FICZ - DMSO	tef: Thyrotrophic embryonic factor	XI.26148.1.S1_x_at	1.852319972
0 FICZ - DMSO	Transcribed locus, moderately similar to XP_217645.4 PREDICTED: similar	XI.16033.1.A1_at	1.820918897
0 FICZ - DMSO	Transcribed locus	XI.22841.1.A1_at	1.798341071
0 FICZ - DMSO	MGC81838: MGC81838 protein	XI.23853.1.A1_at	1.794190818
0 FICZ - DMSO	MGC81086: MGC81086 protein	XI.22475.1.S1_at	1.776043191
0 FICZ - DMSO	Transcribed locus, weakly similar to XP_515968.1 PREDICTED: similar to K XI.14090.1.A1_at	XI.14090.1.A1_at	1.766630103
0 FICZ - DMSO	Transcribed locus	XI.6569.1.A1_at	1.747549515
0 FICZ - DMSO	MGC69051: twisted gastrulation	XI.502.1.S1_at	1.736280455
0 FICZ - DMSO	Transcribed locus	XI.18344.1.A1_at	1.725084064
0 FICZ - DMSO	LOC398022: Insulin-like growth factor-1 receptor beta subunit	XI.269.1.S2_x_at	1.678299274
0 FICZ - DMSO	LOC495374: hypothetical LOC495374	XI.11117.1.S1_at	1.66285995
0 FICZ - DMSO	Transcribed locus	XI.10124.1.A1_at	1.637694964
0 FICZ - DMSO	Transcribed locus	XI.14834.1.A1_at	1.634293011
0 FICZ - DMSO	MGC69132: hypothetical protein MGC69132	XI.18713.1.S1_at	1.632406092
0 FICZ - DMSO	CDNA clone MGC:86486 IMAGE:5512398	XI.1404.1.A1_at	1.630521352
0 FICZ - DMSO	xGR: glucocorticoid receptor protein	XI.1201.1.S1_at	1.602139755
0 FICZ - DMSO	Xemdr: multidrug resistance protein	XI.966.1.S1_at	1.579352639
0 FICZ - DMSO	MGC52909: hypothetical protein MGC52909	XI.12976.1.S1_at	1.565185156
0 FICZ - DMSO	ethe1: ETHE1 protein	XI.17492.1.S1_a_at	1.558689251
0 FICZ - DMSO	MGC83924: Hypothetical protein MGC83924	XI.11501.1.S1_at	1.522385086
0 FICZ - DMSO	Transcribed locus, weakly similar to XP_515866.1 PREDICTED: similar to K XI.18112.1.A1_at	XI.18112.1.A1_at	1.518520796
0 FICZ - DMSO	trep-a: tadpole repetitive sequence (XLTREP)	XI.23593.1.S1_at	1.517819253
1 FICZ - DMSO	C3H-2: CCCH zinc finger protein C3H-2	XI.475.1.S1_s_at	1.513616793
1 FICZ - DMSO	hyal2: hyaluronidase 2	XI.6247.1.S1_at	1.51221856
1 FICZ - DMSO	MGC53121: hypothetical protein MGC53121	XI.8379.1.S1_at	1.503508822
0 FICZ - DMSO	Transcribed locus	XI.21191.1.S1_at	1.498999602
0 FICZ - DMSO	Transcribed locus, moderately similar to XP_508050.1 PREDICTED: similar	XI.3142.1.A1_at	1.493813457
0 FICZ - DMSO	NIF: NIF protein	XI.18931.1.A1_at	1.483837734
0 FICZ - DMSO	Transcribed locus	XI.22482.1.A1_at	1.479387509
0 FICZ - DMSO	Syndecan-4.1	XI.5405.1.A1_at	1.478362431
1 FICZ - DMSO	MGC79057: hypothetical protein MGC79057	XI.18385.1.A1_at	1.477679441
0 FICZ - DMSO	rxra-A: retinoid X receptor, alpha	XI.877.1.S1_at	1.475973344
0 FICZ - DMSO	LOC397854: annexin VII	XI.1075.1.S1_at	1.446266414
0 FICZ - DMSO	Transcribed locus, weakly similar to XP_422828.1 PREDICTED: similar to T XI.2017.1.A1_at	XI.2017.1.A1_at	1.444596587
0 FICZ - DMSO	rac-2: rac-2 protein	XI.4621.1.A1_at	1.443262113
0 FICZ - DMSO	Ubl3: similar to ubiquitin-like 3	XI.21417.1.S1_at	1.420435511
0 FICZ - DMSO	Transcribed locus, moderately similar to XP_001055156.1 PREDICTED: sin	XI.23713.1.A1_at	1.392168014

Appendix

X. laevis genes induced by 100 nM FICZ exposure for 3 hours (continued).

Shared Comparison	Description	Probe Set	Fold Change
0 FICZ - DMSO	lsm: secreted protein lsthmin	Xl.4323.1.A2_at	1.386390173
0 FICZ - DMSO	LOC398469: hypothetical protein LOC398469	Xl.11441.1.S1_at	1.384149716
0 FICZ - DMSO	Transcribed locus, moderately similar to NP_990431.1 cartilage associated	Xl.24676.2.S1_at	1.383510251
0 FICZ - DMSO	MGC84351: MGC84351 protein	Xl.16584.1.S1_at	1.380636311
0 FICZ - DMSO	MGC85492: MGC85492 protein	Xl.14987.1.A1_at	1.377450046
1 FICZ - DMSO	bivm-a: basic, immunoglobulin-like variable motif-containing protein	Xl.4066.1.S1_at	1.355351138
1 FICZ - DMSO	CLIC1: chloride intracellular channel protein 1	Xl.24738.1.S1_at	1.344434994
1 FICZ - DMSO	MGC53732: similar to CDC42 effector protein (Rho GTPase binding) 2	Xl.7782.1.S1_at	1.342813877
0 FICZ - DMSO	TLF: TBP-like factor	Xl.228.1.S1_at	1.327458415
0 FICZ - DMSO	ethe1: ETHE1 protein	Xl.17492.2.S1_x_at	1.32592576
0 FICZ - DMSO	Transcribed locus	Xl.4946.1.A1_at	1.294743815
1 FICZ - DMSO	MGC81225: hypothetical protein MGC81225	Xl.16594.2.A1_at	1.29056249
0 FICZ - DMSO	LOC397899: xlgv7 gene product	Xl.1204.1.S1_at	1.285503317
0 FICZ - DMSO	MGC53595: hypothetical protein MGC53595	Xl.8245.1.S1_at	1.284019103
0 FICZ - DMSO	MGC81823: MGC81823 protein	Xl.2565.5.A1_s_at	1.281351835
0 FICZ - DMSO	smc3: structural maintenance of chromosomes protein 3	Xl.290.1.S1_x_at	1.275149735
1 FICZ - DMSO	aldoc: aldolase C, fructose-bisphosphate	Xl.8701.1.S1_a_at	1.258757174
0 FICZ - DMSO	Transcribed locus	Xl.19601.1.A1_at	1.244874235
0 FICZ - DMSO	LOC495092: Hypothetical LOC495092	Xl.9454.2.A1_at	1.242862474
1 FICZ - DMSO	LOC496352: hypothetical protein LOC496352	Xl.5956.1.S1_at	1.2397077
0 FICZ - DMSO	LOC414512: hypothetical protein LOC414512	Xl.9998.2.S1_a_at	1.237132479
0 FICZ - DMSO	Transcribed locus, weakly similar to NP_598237.1 UDP-Gal:betaGlcNAc bet	Xl.17229.1.A1_at	1.236846673
1 FICZ - DMSO	MGC80329: MGC80329 protein	Xl.25548.1.A1_at	1.23000712
0 FICZ - DMSO	MGC86453: MGC86453 protein	Xl.25611.1.A1_at	1.229154839
0 FICZ - DMSO	MGC52875: hypothetical protein MGC52875	Xl.4789.1.S1_at	1.227735684
0 FICZ - DMSO	Rap1a: RAP1A, member of RAS oncogene family	Xl.23802.1.S1_at	1.226601539
0 FICZ - DMSO	Transcribed locus, moderately similar to NP_067734.1 ataxin 3 [Rattus norv	Xl.3069.1.A1_at	1.223488041
0 FICZ - DMSO	Transcribed locus, weakly similar to XP_522068.1 PREDICTED: similar to p	Xl.5014.2.S1_a_at	1.223205388
0 FICZ - DMSO	LOC733155: NHE3 kinase A regulatory protein 1	Xl.24021.1.S1_at	1.223205388
0 FICZ - DMSO	Transcribed locus	Xl.25926.1.A1_s_at	1.222075428
0 FICZ - DMSO	MGC114747: hypothetical protein MGC114747	Xl.7237.1.S1_at	1.220664447
1 FICZ - DMSO	LOC495354: hypothetical LOC495354	Xl.15811.1.A1_at	1.218128784
0 FICZ - DMSO	MGC81854: MGC81854 protein	Xl.25757.1.S1_at	1.211392737
1 FICZ - DMSO	MGC80877: MGC80877 protein	Xl.4306.1.S1_at	1.200803427
0 FICZ - DMSO	MGC83976: MGC83976 protein	Xl.5817.1.A1_at	1.189481912
0 FICZ - DMSO	LOC414512: hypothetical protein LOC414512	Xl.9998.2.S1_at	1.159899655
1 FICZ - DMSO	myd88-A: Toll/IL-1 receptor binding protein MyD88	Xl.700.1.S1_at	1.147637223
1 FICZ - DMSO	Transcribed locus, moderately similar to XP_577689.2 PREDICTED: similar	Xl.7441.1.A1_at	1.143138335
0 FICZ - DMSO	MGC82372: hypothetical protein MGC82372	Xl.2601.1.S1_at	1.139446615
0 FICZ - DMSO	Transcribed locus	Xl.24978.1.A1_at	1.138131035
0 FICZ - DMSO	Transcribed locus, moderately similar to XP_308258.2 ENSANGP00000010	Xl.10906.1.S1_at	1.1341934
0 FICZ - DMSO	LOC494665: hypothetical LOC494665	Xl.8480.1.S1_at	1.130530567
0 FICZ - DMSO	Transcribed locus, moderately similar to NP_733752.1 transcription factor-III	Xl.15007.1.A1_at	1.129225281
0 FICZ - DMSO	Transcribed locus, weakly similar to XP_426331.1 PREDICTED: similar to s	Xl.16474.1.A1_at	1.124538717
1 FICZ - DMSO	calm2a: calmodulin 2-like	Xl.24457.1.S1_at	1.108800644
0 FICZ - DMSO	MGC80349: MGC80349 protein	Xl.8349.1.S1_at	1.106753038
0 FICZ - DMSO	dynll2: dynein light chain 2	Xl.8719.1.S1_at	1.104709213
1 FICZ - DMSO	MGC64430: Hypothetical protein MGC64430	Xl.24392.1.S1_at	1.101650551
0 FICZ - DMSO	MGC80657: MGC80657 protein	Xl.15266.1.S1_at	1.091263877
0 FICZ - DMSO	snrpf: small nuclear ribonucleoprotein polypeptide F	Xl.19215.1.S1_at	1.085981856

Appendix

X. laevis genes repressed by 100 nM FICZ exposure for 3 hours.

Shared Comparison	Description	Probe Set	Fold Change
0 FICZ - DMSO	Transcribed locus	Xl.11300.1.A1_at	2.558562248
0 FICZ - DMSO	ZPD: zona pellucida glycoprotein homolog	Xl.1019.1.S1_at	1.951612551
0 FICZ - DMSO	Transcribed locus, weakly similar to NP_985559.1 AFR012Cp [Eremotheciu	Xl.19017.1.A1_at	1.658639092
0 FICZ - DMSO	cdc6B: Cdc6-related protein	Xl.23442.1.A1_at	1.656341323
0 FICZ - DMSO	MGC52899: similar to oncoprotein induced transcript 1	Xl.25191.1.S1_at	1.574252182
0 FICZ - DMSO	Transcribed locus, weakly similar to XP_540453.2 PREDICTED: similar to GXI.15681.1.A1_at	Xl.15681.1.A1_at	1.505246747
0 FICZ - DMSO	Transcribed locus, moderately similar to XP_343580.3 PREDICTED: similar	Xl.15448.2.A1_at	1.501079098
0 FICZ - DMSO	Transcribed locus	Xl.16008.1.A1_at	1.500038989
0 FICZ - DMSO	MGC80820: MGC80820 protein	Xl.24399.1.A1_at	1.439931319
0 FICZ - DMSO	Transcribed locus, moderately similar to XP_237523.4 PREDICTED: similar	Xl.12595.1.A1_at	1.416502682
0 FICZ - DMSO	Transcribed locus, weakly similar to NP_114451.1 kalirin, RhoGEF kinase [F	Xl.8437.1.A1_at	1.408344227
0 FICZ - DMSO	Transcribed locus, weakly similar to NP_114451.1 kalirin, RhoGEF kinase [F	Xl.18712.1.A1_s_at	1.394421449
0 FICZ - DMSO	sox-k1-a: sox-K1 ptotein	Xl.21610.1.S1_at	1.34754489
0 FICZ - DMSO	Transcribed locus	Xl.20619.1.S1_at	1.337618464
1 FICZ - DMSO	Transcribed locus, weakly similar to XP_001067472.1 PREDICTED: similar	Xl.24254.1.A1_at	1.333914934
0 FICZ - DMSO	Transcribed locus	Xl.14748.2.A1_at	1.327765158
0 FICZ - DMSO	Transcribed locus, weakly similar to NP_572800.2 Rab40 CG1900-PA, isofc	Xl.18601.1.A1_at	1.31494276
0 FICZ - DMSO	p2ry4: purinergic receptor P2Y, G-protein coupled 4	Xl.1269.1.S1_at	1.304050735
0 FICZ - DMSO	Transcribed locus	Xl.7760.1.A1_at	1.29743896
0 FICZ - DMSO	Transcribed locus	Xl.18504.1.S1_at	1.292950162
0 FICZ - DMSO	Metap1: similar to methionyl aminopeptidase 1	Xl.22063.1.S1_at	1.2875841
0 FICZ - DMSO	Transcribed locus	Xl.12556.1.A1_at	1.254402205
0 FICZ - DMSO	LOC495355: hypothetical LOC495355	Xl.23684.1.A1_at	1.25411241
0 FICZ - DMSO	CDNA clone IMAGE:5074572	Xl.21410.2.S1_at	1.241427492
0 FICZ - DMSO	LOC495142: hypothetical LOC495142	Xl.8959.1.A1_at	1.228303149
1 FICZ - DMSO	Transcribed locus, weakly similar to XP_308048.2 ENSANGP00000019431	Xl.4149.1.A1_at	1.225468443
0 FICZ - DMSO	Ppan: similar to peter pan homolog (Drosophila)	Xl.7873.1.S1_x_at	1.218973419
1 FICZ - DMSO	Transcribed locus	Xl.25388.1.A1_at	1.203303026
0 FICZ - DMSO	Transcribed locus	Xl.10424.1.A1_at	1.193060056
1 FICZ - DMSO	MGC82864: MGC82864 protein	Xl.6759.1.A1_at	1.185366617
1 FICZ - DMSO	Transcribed locus	Xl.22799.1.A1_at	1.179629113
0 FICZ - DMSO	Transcribed locus	Xl.13469.1.A1_at	1.162045587
0 FICZ - DMSO	camk2g: calcium/calmodulin-dependent protein kinase (CaM kinase) II gamr	Xl.693.10.S1_x_at	1.132622164
0 FICZ - DMSO	VH4: Ig rearranged H chain V-region subgroup 4	Xl.23507.1.A1_at	1.129486218
0 FICZ - DMSO	crk2: SH2/SH3 adaptor Crk2	Xl.100.1.S1_at	1.07997656