

**Title: Gene expression changes common to BPDE and TCDD exposure in MCF-7 and HepG2 cells.**

Description: Genes that were significantly (Student's one-sample t-test p-value < 0.05) modulated by at least 1.4-fold after BPDE and TCDD exposure in either MCF-7 cells (19 genes) or HepG2 cells (14 genes).

IMAGE Clone ID	Gene Symbol	Genbank	Description	BPDE	TCDD
950574	<i>H3F3B</i>	BX537379	H3 histone, family 3B (H3.3B)	↓ <sup>1</sup>	↓
268878	<i>CYP1B1</i>	NM_000104	Cytochrome P450, family 1, subfamily B, polypeptide 1	↑	↑
1926453	<i>AREG</i>	AK023449	Amphiregulin (schwannoma-derived growth factor)	↓	↓
1410444	<i>AREG</i>	AK023449	Amphiregulin (schwannoma-derived growth factor)	↓	↓
856454	<i>SLC3A2</i>	AK025584	Solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2	↓	↑
259649	<i>IER3</i>	BM994398	Immediate early response 3	↑	↑
239754	<i>SLC7A5</i>	AF104032	Solute carrier family 7 (cationic amino acid transporter, y <sup>+</sup> system), member 5	↓	↑
782760	<i>CYP1B1</i>	NM_000104	Cytochrome P450, family 1, subfamily B, polypeptide 1	↑	↑
814798	<i>ALDH1A3</i>	AF198444	Aldehyde dehydrogenase 1 family, member A3	↑	↑
41195	<i>GCDH</i>	BC002579	Glutaryl-Coenzyme A dehydrogenase	↓	↓
72778	<i>CASP7</i>	U67206	Caspase 7, apoptosis-related cysteine protease	↓	↓
51865	<i>CA2</i>	AK123309	Carbonic anhydrase II	↓	↓
131867	<i>NET1</i>	BX537509	Neuroepithelial cell transforming gene 1	↓	↓
486591	<i>SEMA3C</i>	NM_006379	Sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C	↓	↓
668307	<i>KIAA1199</i>	AB103330	KIAA1199	↓	↓
325117	<i>HIF1A</i>	NM_001530	Hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)	↓	↓
149401	<i>CTSD</i>	NM_001909	Cathepsin D (lysosomal aspartyl protease)	↓	↓
42648	<i>TKT</i>	BX649193	Transketolase (Wernicke-Korsakoff syndrome)	↓	↑
760230	<i>AGR2</i>	BM924878	Anterior gradient 2 homolog ( <i>Xenopus laevis</i> )	↓	↓

<sup>1</sup>↑ up-regulated expres ↓ down-regulated expression

IMAGE Clone ID	Gene Symbol	Genbank	Description	BPDE	TCDD
137535	<i>TIF1</i>	NM_015905	Transcriptional intermediary factor 1	↓ <sup>1</sup>	↓
221846	<i>CHES1</i>	NM_005197	Checkpoint suppressor 1	↓	↓
814615	<i>MTHFD2</i>	BC015062	Methylene tetrahydrofolate dehydrogenase (NAD <sup>+</sup> dependent), methenyltetrahydrofolate cyclohydrolase	↓	↓
324356	<i>NQO1</i>	NM_000903	NAD(P)H dehydrogenase, quinone 1	↓	↑
2353276	<i>CCL20</i>	BG534134	Chemokine (C-C motif) ligand 20	↑	↑
244307	<i>SERPINE1</i>	BX649164	Serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	↑	↑
590369	<i>SERPINE1</i>	BX649164	Serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	↑	↑
41452	<i>SAT</i>	BF680536	Spermidine/spermine N1-acetyltransferase	↑	↓
140997	<i>GDF15</i>	BQ883534	Growth differentiation factor 15	↑	↑
39285	<i>GLUD1</i>	NM_005271	Glutamate dehydrogenase 1	↓	↓
310493	<i>ACSL3</i>	NM_004457	Acyl-CoA synthetase long-chain family member 3	↓	↓
204148	<i>RPS6KA3</i>	NM_004586	Ribosomal protein S6 kinase, 90kDa, polypeptide 3	↓	↓
855624	<i>ALDH1A1</i>	NM_000689	Aldehyde dehydrogenase 1 family, member A1	↓	↑
196992	<i>AKR1C1</i>	AK095239	Aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)	↓	↑

<sup>1</sup>↑ up-regulated expres ↓ down-regulated expression