

Supplementary data

Table 2. Composition of two groups of genes with correlated expression profiles in the liver of juvenile brown trout exposed for 10 days at various distances from the pulp and paper mill “Kaukas” and at two depths of water in comparison with the reference site -10 km upstream.

Accession	Gene	Pearson r^1
Group A		
CX723308	10 kDa heat shock protein, mitochondrial	0.93
EL552294	ADP,ATP carrier protein 3	0.93
CA354833	Anti-silencing function 1B	0.85
CA366462	Apoptosis regulator Bcl-X	0.88
CR370121	Axonal transporter of synaptic vesicles	0.80
CA376978	CD2 binding protein 1-2	0.86
CA383564	Coatomer epsilon subunit 1	0.98
CA380185	ERO1-like protein alpha precursor	0.91
CU070548	Glucose-6-phosphatase	0.84
CA384452	Heat shock protein HSP 90-alpha	0.93
DW564653	Hpa repeat-1	0.92
CR370883	Hpa repeat-2	0.94
CX260228	Hypothetical-fish 5	0.88
CA342691	Lanosterol synthase	0.90
BX859583	Megakaryocyte stimulating factor	0.86
CA354715	Membrane copper amine oxidase	0.89
CA382570	Mitogen-activated protein kinase 13	0.91
CX153181	Nucleoside diphosphate kinase, mitochondrial	0.83
CA361342	Orphan nuclear receptor NR4A2	0.91
DY710914	Peptidyl-prolyl cis-trans isomerase-7	0.94
CA344201	Peroxisomal targeting signal 2 receptor	0.92
CA346691	ReO_6-1	0.91
CX136217	ReO_6-2	0.96
CB510677	Sarcoplasmic/endoplasmic reticulum calcium ATPase	0.94

CA358266	T-cell, immune regulator 1, isoform a	0.92
EXOB1_F02	Transcription regulator protein BACH1	0.84
DY737056	Transposase-1	0.88
CA040613	Transposase-4	0.97
CX717338	Transposase-5	0.94
CA037544	Transposase-58	0.89
CX354900	Transposase-59	0.90
EG847896	Transposase-6	0.95
DW537469	Transposase-7	0.87
CA357217	Ubiquitin ligase protein CHFR	0.95
CA357104	Ubiquitin-conjugating enzyme E2-18 kDa	0.92
EXOB3_A11	Unknown-107	0.94
BX076826	Unknown-113	0.93
EXOB3_E03	Unknown-114	0.99
CB485825	Unknown-173	0.82
CT571685	Unknown-188	0.95
CA038503	Unknown-218	0.87
CK873537	Unknown-220	0.86
KVkm2_F01	Unknown-224	0.98
utu02d01	Unknown-241	0.88
DY695669	Unknown-259	0.93
CR372483	Unknown-33	0.91
DY720828	Unknown-70	1.00
EL558025	Unknown-75	0.97
CA381625	Zinc finger protein 148	0.95
Group B		
EV378274	Adenosine deaminase 3	0.90
EV378980	Alpha-2,8-sialyltransferase 8F	0.88
CX245881	Apolipoprotein A-I-1	0.90
DY737446	Apolipoprotein A-IV	0.94
CA348325	BAG-family molecular chaperone regulator-4	0.84
CA358725	Cytosolic nonspecific dipeptidase	0.94
CA358107	Ectonucleoside triphosphate diphosphohydrolase 1	0.99

DV200529	Fructose-bisphosphate aldolase A	0.93
CA353121	GRB2-related adaptor protein 2	0.98
CA366403	Heat shock 27 kDa protein-1	0.98
CX252245	Hypothetical-fish 34	0.91
CA375247	Hypothetical-fish 36	0.83
BX076136	Hypoxanthine-guanine phosphoribosyltransferase	0.79
ES325958	Lysozyme cluster	0.84
CX151724	Macrophage receptor MARCO	0.96
CA368716	Membrane-bound transcription factor site 2 protease	0.84
EG756231	NADH dehydrogenase subunit 5-2	0.97
CA357173	Peptidyl-prolyl cis-trans isomerase 2-2	0.97
BX084567	PEST-containing nuclear protein	0.94
BX082905	Splicing factor 3B subunit 1	0.79
EG355201	Stanniocalcin-1	0.96
DW576495	Transposase-56	0.86
EXOB3_A01	Unknown-103	0.98
BX882217	Unknown-132	0.91
BX082487	Unknown-182	0.95
CA387618	Unknown-223	0.89
est04c02	Unknown-53	0.99
est04c10	Unknown-56	0.96
EST1-3AG03	Unknown-74	0.92
CX254566	Unknown-76	0.96
EXOB1_D07	Unknown-84	0.89

¹Correlation with the mean expression profiles