Additional data file 3. Real-time quantitative PCR (QPCR) confirmation of selected *Daphnia magna* genes responding on cDNA microarray following acute exposure to ibuprofen (IB)^a.

	0 mg IB I ⁻¹	20 mg IB I ⁻¹	40 mg IB I ⁻¹	80 mg IB I ⁻¹	R²-values ^b	Primers (5'-3') ^e	Amplicon size (bp)	Amplification efficiency (E) ^f
C-type Lectin like (CLECT) ^c	1.000 1.000±0.081	0.703±0.336 0.812±0.062	0.710±0.296 0.695±0.017*	0.405±0.016 0.477±0.044*	0.92 (L)	TTCCACGTCGAAACCCTAAC CCACTCCCGTCCAGTAGGTA	88	1.038±0.046
Glutathione Peroxidase (GPX)	1.000 1.000±0.043	0.729±5.156 0.862±0.012*	0.251±0.054 0.895±0.041	0.889±3.588 1.113±0.027	0.95 (C)	ACTTCCAGCCGAACATAACG GAGTCGTCGGACAGCTTCTT	99	1.017±0.018
Juvenile Hormone Esterase (JHE)°	1.000 1.000±0.119	0.528±0.551 0.726±0.148	0.218±0.030 0.492±0.027*	0.102±0.178 0.173±0.028*	0.87 (L)	ATGGAGTTCTCAACGGAACG ATCTCAGGTGTGGGCATTTC	100	0.896±0.016
Triacylglycerol Lipase (Lip) ^{cd}	1.000 1.000±0.044	1.307±0.189 2.129±0.599	1.502±0.194 2.757±0.101*	2.410±2.077 6.124±0.395*	1.00 (L)	CTGTTTATTGGCGACATTGC TAGCCGTTCATTCTCCAACC	95	0.941±0.025
Ubinuclein (Ubn)	1.000 1.000±0.104	0.971±0.142 0.799±0.075	0.750±0.164 0.809±0.086	0.420±0.028 1.127±0.046	0.56 (C)	GGCACAGTGGTTTCCGTATC TGCTTGTTCCGGTGTTACTG	81	1.033±0.022
Vitellogenin 1 (DmagVTG1) ^{cd}	1.000 1.000±0.104	1.083±0.526 0.984±0.049	1.143±0.410 1.034±0.088	1.723±1.502 1.232±0.065	0.96 (L)	CTGGCAAATGGGAAATCAAC CCCAGGTGTAAGCCAAACC	93	0.870±0.084

^aMicroarray expression levels are shown in the first line and QPCR expression levels are shown below (mean \pm SE, n = 3-4). The QPCR amplicons were quantified from *Daphnia* exposed in a comparable independent, previously reported (see Heckmann et al., 2006 [21]), experiment. QPCR expression was calculated using DART-PCR [59] and normalised to a geNorm [60] estimated normalisation factor based on the geometric mean of *actin*, *glyceraldehyde-3-phosphate dehydrogenase* and *ubiquitin conjugating enzyme*. Note that, although being differentially expressed on the microarray, *actin* has previously been verified as a QPCR reference gene [21]. Exposed expression levels are shown relative to controls; ${}^bR^2$ -values of correlated QPCR and microarray expression. Brackets signify a linear (L) or cubic (C) correlation; cSignificant (P < 0.05, linear regression) concentration-dependent relationship between IB concentration and relative QPCR expression. Expression levels significant different (P < 0.05, Student's *t*-test) from controls are indicated by an asterisks (*); dExpression data of redundant microarray genes, aligned in the same sequence contig or with identical annotations, have been averaged; eUpper and lower sequences represent forward and reverse primers respectively; fV alues are mean \pm SD (N = 36).