Table S1. White blood cells (WBC, x 10^4), red blood cells (RBC, x 10^6), heamatocrit (Ht, %), haemoglobin (Hg, g/dL), mean corpuscular volume (MCV, μm^3), mean corpuscular heamoglobin (MCH, pg/cell) and mean corpuscular heamoglobin concentration (MCHC, g/100 mL) of gilthead seabream before and after bacterial or placebo challenge.

	0 h	3 h		6 h		9 h		24 h		48 h	
	Control	**Placebo**	**Infected**	**Placebo**	**Infected**	**Placebo**	**Infected**	**Placebo**	**Infected**	**Placebo**	**Infected**
WBC	5.68 ± 1.18^{aAB}	5.05 ± 0.94^{AB}	4.62 ± 1.02^{ab}	$4.92 \pm 0.37^{B\#}$	$3.77 \pm 0.51^{b\$}$	5.65 ± 0.60^{A}	4.10 ± 2.40^{ab}	4.47 ± 1.21^{AB}	5.18 ± 1.64^{ab}	5.42 ± 0.88^{AB}	5.05 ± 1.44^{ab}
RBC	1.85 ± 0.41^{aA}	1.82 ± 0.28^{A}	1.58 ± 0.44^{abc}	1.51 ± 0.38^{AB}	1.44 ± 0.38^{abc}	1.38 ± 0.28^{B}	1.18 ± 0.24^{c}	1.45 ± 0.31^{AB}	1.54 ± 0.16^{b}	$1.84 \pm 0.50^{AB\#}$	$1.25 \pm 0.14^{c\$}$
Ht	26.80 ± 4.85^{abAB}	30.33 ± 3.61^{A}	27.60 ± 1.52^{a}	27.60 ± 2.88^{AB}	27.25 ± 4.99^{ab}	$30.40 \pm 4.39^{AB\#}$	$22.80 \pm 2.68^{bc\$}$	26.00 ± 2.68^{B}	22.00 ± 5.48^{abc}	$31.17 \pm 3.13^{A\#}$	$19.00 \pm 2.71^{c\$}$
Hg	1.37 ± 0.34^{bB}	1.86 ± 0.31^{A}	1.74 ± 0.23^{a}	1.30 ± 0.34^{BC}	1.64 ± 0.46^{ab}	1.59 ± 0.50^{AB}	1.17 ± 0.34^{b}	$0.99 \pm 0.27^{C\$}$	$1.54 \pm 0.29^{ab\#}$	$1.31 \pm 0.37^{BC\#}$	$0.74 \pm 0.15^{c\$}$
MCV	138.99 ± 25.25^{bB}	170.61 ± 35.32^{AB}	162.78 ± 21.70^{ab}	188.76 ± 25.83^{A}	166.24 ± 19.93^{ab}	194.98 ± 40.80^{A}	178.21 ± 30.49^{a}	184.78 ± 37.34^{A}	143.22 ± 32.13^{ab}	161.37 ± 36.98^{AB}	151.84 ± 7.39^{ab}
MCH	3.71 ± 1.23^{bcB}	5.48 ± 1.01^{A}	5.81 ± 1.31^{a}	4.57 ± 1.71^{AB}	5.12 ± 1.21^{ab}	5.83 ± 1.69^{A}	5.01 ± 1.13^{ab}	$3.45 \pm 0.68^{B\$}$	$5.05 \pm 0.93^{a\#}$	3.79 ± 1.45^{B}	3.04 ± 0.82^{c}
MCHC	2.78 ± 0.88^{abAB}	3.33 ± 0.94^{A}	3.33 ± 0.32^{a}	$2.37 \pm 0.69^{AB\$}$	$3.48 \pm 0.55^{a\#}$	2.66 ± 0.81^{AB}	2.69 ± 1.01^{ab}	$1.92 \pm 0.55^{B\$}$	$3.20 \pm 0.83^{ab\#}$	2.08 ± 0.44^{B}	2.23 ± 0.49^{b}

Data are expressed as means ± SD (n=12 for control animals and n=6 on time course animals). Different lower case letters stand for significant differences between times regarding control and infected groups, while symbol stands for differences between treatments on the same sampling time. Different capital letters indicate differences between times within control and placebo groups. (*t*-student test or Kruskal-Wallis; $P \leq 0.05$).

Table S2. Absolute values (x 10^4) of peripheral blood leukocytes (neutrophils, monocytes, lymphocytes and thrombocytes) of gilthead seabream before and after bacterial or placebo challenge.

	0 h	3 h		6 h		9 h		24 h		48 h	
	Control	**Placebo**	**Infected**	**Placebo**	**Infected**	**Placebo**	**Infected**	**Placebo**	**Infected**	**Placebo**	**Infected**
Neutrophils	0.34 ± 0.26^{bC}	0.93 ± 0.50^{AB}	1.28 ± 0.72^{a}	1.22 ± 0.25^{A}	1.48 ± 0.49^{a}	0.81 ± 0.44^{AB}	1.03 ± 0.31^{a}	0.61 ± 0.28^{BC}	1.29 ± 0.93^{a}	0.49 ± 0.20^{BC}	1.01 ± 0.80^{a}
Monocytes	0.28 ± 0.10^{bc}	0.40 ± 0.31	0.37 ± 0.24^{abc}	0.30 ± 0.10	0.20 ± 0.09^{c}	0.37 ± 0.16	0.10 ± 0.03^{d}	0.22 ± 0.13	0.45 ± 0.21^{a}	0.33 ± 0.13	0.51 ± 0.26^{ab}
Lymphocytes	1.44 ± 0.28^{aA}	0.98 ± 0.35^{B}	0.82 ± 0.21^{bc}	$0.94 \pm 0.34^{B\#}$	$0.50 \pm 0.15^{d\$}$	$1.21 \pm 0.27^{AB\#}$	$0.61 \pm 0.22^{cd\$}$	1.06 ± 0.21^{B}	1.00 ± 0.26^{b}	$1.33 \pm 0.31^{AB\#}$	$0.81 \pm 0.18^{bc\$}$
Thrombocytes	3.40 ± 0.74^{aA}	2.74 ± 0.72^{AB}	2.14 ± 0.62^{bc}	$2.45 \pm 0.40^{B\#}$	$1.59 \pm 0.30^{c\$}$	$3.26 \pm 0.25^{A\#}$	$1.77 \pm 0.91^{bc\$}$	2.58 ± 0.81^{AB}	2.45 ± 0.51^{b}	3.26 ± 0.71^{A}	2.58 ± 0.61^{b}

Data are expressed as means ± SD (n=12 for control animals and n=6 on time course animals). Different lower case letters stand for significant differences between times regarding control and infected groups, while symbol stands for differences between treatments on the same sampling time. Different capital letters indicate differences between times within control and placebo groups. (*t*-student test or Kruskal-Wallis; $P \leq 0.05$).

Table S3. Plasma antiprotease (%), peroxidase (units/mL) and proteases activities (%) of gilthead seabream before and after bacterial or placebo challenge.

	0 h	3 h		6 h		9 h		24 h		48 h	
	Control	**Placebo**	**Infected**	**Placebo**	**Infected**	**Placebo**	**Infected**	**Placebo**	**Infected**	**Placebo**	**Infected**
Antiprotease activity	85.36 ± 5.70^{cB}	88.22 ± 4.71^{AB}	89.04 ± 4.11^{bc}	87.63 ± 6.72^{AB}	84.71 ± 7.07^{bc}	84.85 ± 5.60^{B}	87.30 ± 5.01^{bc}	87.00 ± 4.71^{AB}	91.45 ± 4.14^{ab}	91.42 ± 2.48$^{A\$}$	95.49 ± 1.65$^{a\#}$
Peroxidase activity	20.81 ± 9.54^{A}	24.80 ± 5.25^{A}	22.54 ± 8.37	12.01 ± 2.88$^{B\$}$	23.30 ± 9.24$^{\#}$	20.00 ± 6.16^{A}	21.39 ± 12.60	18.04 ± 5.28^{AB}	33.02 ± 15.63	32.57 ± 18.66^{AB}	21.46 ± 9.77
Protease activity	74.43 ± 25.10	82.16 ± 7.09	73.85 ± 20.60	82.10 ± 12.75	66.17 ± 30.93	71.36 ± 26.09	66.76 ± 38.88	67.29 ± 16.79	67.14 ± 8.75	60.63 ± 20.81	59.45 ± 15.67

Data are expressed as means ± SD (n=12 for control animals and n=6 on time course animals). Different lower case letters stand for significant differences between times regarding control and infected groups, while symbol stands for differences between treatments on the same sampling time. Different capital letters indicate differences between times within control and placebo groups. (*t*-student test or Kruskal-Wallis; $P \leq 0.05$).

Table S4. Liver lipid peroxidation (LPO, TBARS/g), Total glutathione (tGSH, nmol/mg protein), Glutathione S-transferase activity (GST, mU/mg protein), Catalase activity (CAT, U/mg protein) and Superoxide dismutase activity (SOD, U/mg protein) of gilthead seabream before and after bacterial or placebo challenge.

	0 h	3 h		6 h		9 h		24 h		48 h	
	Control	**Placebo**	**Infected**	**Placebo**	**Infected**	**Placebo**	**Infected**	**Placebo**	**Infected**	**Placebo**	**Infected**
LPO activity	37.31 ± 4.25^{BCc}	37.23 ± 4.23^{BC}	37.75 ± 5.13^{bc}	40.66 ± 4.18^{AB}	42.85 ± 9.90^{abc}	44.34 ± 4.63^{A}	46.55 ± 4.35^{a}	45.87 ± 5.25^{A}	44.41 ± 7.52^{ab}	34.31 ± 4.29$^{C\$}$	42.46 ± 3.12$^{ab\#}$
tGSH activity	51.63 ± 24.23^{Ba}	87.54 ± 32.64^{A}	74.59 ± 35.96^{a}	51.57 ± 25.03^{AB}	46.97 ± 20.98^{a}	44.03 ± 29.90^{B}	44.02 ± 31.33^{ab}	67.09 ± 22.99$^{AB\#}$	8.12 ± 6.91$^{b\$}$	57.24 ± 20.72^{AB}	35.41 ± 24.76^{ab}
GST activity	144.12 ± 48.43^{cC}	212.97 ± 89.47^{AB}	182.24 ± 79.42^{abc}	148.69 ± 34.04^{BC}	239.46 ± 32.87^{a}	153.45 ± 72.77^{ABC}	251.49 ± 62.12^{a}	175.06 ± 87.30^{ABC}	221.06 ± 75.25^{ab}	208.25 ± 23.99^{A}	150.13 ± 40.50^{bc}
CAT activity	11.69 ± 1.57^{Bb}	12.99 ± 3.15^{B}	14.11 ± 4.04^{abc}	15.54 ± 5.78^{AB}	13.52 ± 3.42^{ab}	11.58 ± 0.86$^{B\#}$	8.53 ± 0.84$^{c\$}$	11.66 ± 3.63$^{B\$}$	16.81 ± 2.18$^{a\#}$	16.64 ± 1.55^{A}	16.51 ± 2.06^{a}
SOD activity	8.29 ± 4.36^{ABab}	20.69 ± 19.44^{A}	10.24 ± 12.08^{ab}	10.42 ± 14.73^{AB}	14.04 ± 10.19^{a}	3.64 ± 1.87^{B}	11.83 ± 8.17^{ab}	13.20 ± 4.90^{A}	14.98 ± 13.98^{a}	12.44 ± 11.09^{AB}	3.70 ± 0.68^{b}

Data are expressed as means ± SD (n=12 for control animals and n=6 on time course animals). Different lower case letters stand for significant differences between times regarding control and infected groups, while symbol stands for differences between treatments on the same sampling time. Different capital letters indicate differences between times within control and placebo groups. (*t*-student test or Kruskal-Wallis; $P \leq 0.05$).

Table S5. Quantitative expression of heat shok protein 70 (*hsp70*), non-specific citotoxic cell receptor protein 1 (*nccrp1*), interleukin 34 (*il-34*), hepcidin (*hep*), major histocompatibility complex I (*mhc I*), major histocompatibility complex II (*mhc II*), interleukinβ1 (*il-1β*), colony stimulation factor 1 receptor (*csf1r*), transforming growth factorβ1 (*tgf- β1*), caspase 1 (*casp1*), β-defensin (*β-def*), interleukin 10 (*il-10*), haptoglobin (*hptg*) and transferrin (*transf*) in the head kidney of gilthead seabream juveniles before and after bacterial or placebo challenge.

	0 h	**3 h**		**6 h**		**9 h**		**24 h**		**48 h**	
	Control	**Placebo**	**Infected**	**Placebo**	**Infected**	**Placebo**	**Infected**	**Placebo**	**Infected**	**Placebo**	**Infected**
hsp70	0.91 ± 0.30^{cC}	1.64 ± 0.58^{AB}	2.08 ± 2.17^{abc}	3.46 ± 4.55^{A}	6.23 ± 9.10^{ab}	2.75 ± 1.74^{A}	2.13 ± 1.61^{ab}	$0.96 \pm 0.49^{BC\$}$	$8.64 \pm 14.72^{a\#}$	5.46 ± 7.54^{AB}	1.79 ± 1.85^{bc}
nccrp	1.57 ± 0.61^{bA}	1.67 ± 0.39^{A}	1.48 ± 0.61^{bc}	$1.79 \pm 0.67^{A\#}$	$0.83 \pm 0.46^{c\$}$	$2.34 \pm 0.85^{A\#}$	$0.87 \pm 0.42^{c\$}$	1.73 ± 1.14^{AB}	1.90 ± 0.42^{ab}	$0.87 \pm 0.20^{B\$}$	$2.62 \pm 0.88^{a\#}$
il-34	1.12 ± 0.55^{cA}	1.22 ± 0.58^{A}	1.14 ± 0.60^{c}	0.71 ± 0.34^{AB}	1.23 ± 0.54^{c}	$0.87 \pm 0.21^{AB\$}$	$1.78 \pm 0.44^{b\#}$	$0.62 \pm 0.41^{AB\$}$	$3.19 \pm 0.68^{a\#}$	$0.42 \pm 0.25^{B\$}$	$2.00 \pm 0.90^{abc\#}$
hep	2.42 ± 1.41^{aA}	1.92 ± 0.92^{AB}	1.39 ± 0.87^{abc}	1.24 ± 0.49^{BC}	0.62 ± 0.58^{bcd}	1.54 ± 0.75^{ABC}	0.71 ± 0.55^{cd}	$1.30 \pm 0.59^{ABC\#}$	$0.36 \pm 0.14^{d\$}$	0.99 ± 0.37^{C}	1.35 ± 0.18^{b}
mhc-I	0.46 ± 0.19^{bC}	0.77 ± 0.24^{A}	0.86 ± 0.82^{ab}	1.11 ± 1.56^{BC}	2.50 ± 3.65^{ab}	1.01 ± 0.82^{AB}	0.98 ± 0.82^{a}	$0.29 \pm 0.10^{C\$}$	$3.57 \pm 5.17^{a\#}$	$1.20 \pm 1.81^{BC\$}$	$0.97 \pm 0.26^{a\#}$
mhc-II	0.73 ± 0.35^{AB}	0.98 ± 0.44^{A}	0.76 ± 0.46	0.65 ± 0.22^{ABC}	0.61 ± 0.39	0.68 ± 0.15^{AB}	0.78 ± 0.17	$0.36 \pm 0.19^{\$C}$	$0.95 \pm 0.55^{\#}$	0.46 ± 0.33^{BC}	0.78 ± 0.28
il-1β	1.06 ± 0.74^{bB}	$4.87 \pm 2.15^{A\$}$	$1074.06 \pm 313.88^{a\#}$	$14{,}47 \pm 22.50^{A}$	120.94 ± 99.01^{a}	$14.30 \pm 15.89^{AB\$}$	$488.64 \pm 264.46^{a\#}$	$2.03 \pm 1.15^{AB\$}$	$993.44 \pm 781.32^{a\#}$	15.78 ± 28.89^{AB}	188.67 ± 189.32^{a}
csf1r	1.09 ± 0.51^{a}	$0.87 \pm 0.25^{\#}$	$0.53 \pm 0.18^{bc\$}$	0.65 ± 0.23	0.38 ± 0.18^{c}	0.85 ± 0.29	0.52 ± 0.30^{bc}	0.62 ± 0.34	1.26 ± 0.76^{ab}	$0.62 \pm 0.30^{\$}$	$1.18 \pm 0.44^{a\#}$
tgf-β1	0.93 ± 0.47^{ab}	0.88 ± 0.43	0.75 ± 0.32^{ab}	0.69 ± 0.25	0.95 ± 0.84^{ab}	0.89 ± 0.36	0.71 ± 0.27^{b}	0.69 ± 0.34	2.19 ± 2.40^{a}	$0.52 \pm 0.33^{\$}$	$1.19 \pm 0.36^{a\#}$
casp1	0.71 ± 0.21^{Bc}	1.39 ± 0.40^{A}	1.48 ± 1.45^{bc}	2.70 ± 3.92^{A}	4.84 ± 7.71^{abc}	1.64 ± 0.69^{A}	1.61 ± 1.37^{ab}	$0.62 \pm 0.18^{B\$}$	$7.05 \pm 12.02^{a\#}$	2.24 ± 3.37^{AB}	1.16 ± 0.39^{abc}
β-def	1.98 ± 3.30	0.82 ± 0.28	0.74 ± 0.74	0.49 ± 0.32	1.18 ± 1.25	1.25 ± 1.35	0.76 ± 0.40	1.39 ± 2.02	0.98 ± 0.37	14.80 ± 30.96	2.20 ± 1.14
il-10	0.99 ± 0.33^{b}	$1.37 \pm 0.43^{\$}$	$5.03 \pm 3.07^{a\#}$	2.59 ± 3.09	6.28 ± 7.77^{a}	$2.13 \pm 1.61^{\$}$	$6.04 \pm 1.56^{a\#}$	$0.75 \pm 0.48^{\$}$	$7.01 \pm 9.44^{a\#}$	2.57 ± 3.57	0.73 ± 0.31^{b}
hptg	0.81 ± 0.74^{bB}	2.18 ± 2.20^{AB}	12.20 ± 16.51^{a}	12.06 ± 18.05^{A}	59.31 ± 79.39^{a}	$6.80 \pm 6.91^{A\$}$	$146.31 \pm 74.75^{a\#}$	$1.71 \pm 1.95^{AB\$}$	$153.11 \pm 122.06^{a\#}$	14.06 ± 27.37^{AB}	22.23 ± 19.71^{a}
transf	3.35 ± 2.06^{c}	2.88 ± 1.86	19.43 ± 17.14^{abc}	4.57 ± 3.70	66.39 ± 54.37^{bc}	$2.71 \pm 1.12^{\$}$	$470.05 \pm 252.82^{ab\#}$	$2.18 \pm 1.19^{\$}$	$2038.86 \pm 1305.47^{a\#}$	$7.47 \pm 13.85^{\$}$	$1159.48 \pm 982.11^{ab\#}$

Data are expressed as means ± SD (n=12 for control animals and n=6 on time course animals). Values present the relative expression of target genes previously normalized to Elongation Factor 1α (ef-1α). Different lower case letters stand for significant differences between times regarding control and infected groups, while symbol stands for differences between treatments on the same sampling time. Different capital letters indicate differences between times within control and placebo groups. (*t*-student test or Kruskal-Wallis; $P \leq 0.05$).