Supplement

GO Category	Gene title	Regulation	Gen Bank accession no.	Affymetrix ID
Cell cycle arrest	protein phosphatase 1, regulatory (inhibitor) subunit 15A	4,5 ▲	NM_014330	37028_at
	DNA-damage-inducible transcript 3	4,3 ▲	NM_004083	209383_at
	protein phosphatase 1, regulatory (inhibitor) subunit 15A	4,1 ▲	NM_014330	202014_at
	interleukin 8	3,5 ▼	NM_000584	202859_x_at
	interleukin 8	3,9 ▼	NM_000584	211506_s_at
Chemotaxis	plasminogen activator, urokinase plasminogen activator, urokinase	3,4 ▲	NM_002658	211668_s_at
	v-ral simian leukemia viral oncogene homolog A (ras related)	3,2 ▲	NM_005402	224880_at
	plasminogen activator, urokinase	3,1 ▲	NM_002658	205479_s_at
	interleukin 8	3,5 ▼	NM_000584	202859_x_at
	interleukin 8	3,9 ▼	NM_000584	211506_s_at
	chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)	3,9 ▼	NM_002993	206336_at
Ligand-dependent nuclear receptor activity	nuclear receptor subfamily 4, group A, member 2	5,2 ▲	NM_006186 NM_173171 NM_173172 NM_173173	204621_s_at
	nuclear receptor subfamily 4, group A, member 2	5,2 ▲	NM_006186 NM_173171 NM_173172 NM_173173	216248_s_at
	nuclear receptor subfamily 4, group A, member 2	4,3 ▲	NM_006186	204622_x_at
	nuclear receptor subfamily 4, group A, member 1	3,6 ▲	NM_002135	202340_x_at
	Nuclear receptor subfamily 2, group F, member 1	4,5 ▼	NM_005654	209505_at

Methylation	v-fos FBJ murine osteosarcoma viral oncogene homolog	5,5 ▲	NM_005252	209189_at
	methyltransferase like 3	3,5 ▼	NM_019852	209265_s_at
Organismal physiological process	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	13,2 ▲	NM_000963	204748_at
	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	9,9 ▲	NM_000963	1554997_a_at
	bone morphogenetic protein 2	6,2 ▲	NM_001200	205289_at
	v-fos FBJ murine osteosarcoma viral oncogene homolog	5,5 ▲	NM_005252	209189_at
	nuclear receptor subfamily 4, group A, member 2	5,2 ▲	NM_006186 NM_173171 NM_173172 NM_173173	204621_s_at
	nuclear receptor subfamily 4, group A, member 2	5,2 ▲	NM_006186 NM_173171 NM_173172 NM_173173	216248_s_at
	nuclear receptor subfamily 4, group A, member 2	4,3 ▲	NM_006186	204622_x_at
	bone morphogenetic protein 2	4,3 ▲	NM_001200	205290_s_at
	KIT ligand	3,6 ▲	NM_000899	207029_at
	KIT ligand	3,5 ▲	NM_000899 NM_003994	211124_s_at
	plasminogen activator, urokinase plasminogen activator, urokinase	3,4 ▲	NM_002658	211668_s_at
	Transcribed locus, strongly similar to NP_005594.1 ATPase, Class I, type 8B, member 1; familial intrahepatic cholestasis 1, (progressive, Byler disease and benign	3,4 ▲	---	226302_at

	recurrent); ATPase ,Class I, type 8B, member 1; benign recurrent intrahepatic cholestasis; p			
	---	3,3 ▲	---	229450_at
	nuclear factor, interleukin 3 regulated	3,3 ▲	NM_005384	203574_at
	KIT ligand	3,3 ▲	NM_000899 NM_003994	226534_at
	cytochrome P450, family 1, subfamily B, polypeptide 1	3,2 ▲	NM_000104	202436_s_at
	sequestosome 1	3,1 ▲	NM_003900	201471_s_at
	plasminogen activator, urokinase	3,1 ▲	NM_002658	205479_s_at
	cytochrome P450, family 1, subfamily B, polypeptide 1	3,0 ▲	NM_000104	202437_s_at
	neural precursor cell expressed, developmentally down-regulated 4-like	3,0 ▲	NM_015277	212445_s_at
	C-type lectin domain family 2, member B	3,0 ▲	NM_005127	209732_at
	SET binding factor 2	3,2 ▼	NM_030962	226169_at
	interleukin 8	3,5 ▼	NM_000584	202859_x_at
	smoothelin	3,6 ▼	NM_006932 NM_134269 NM_134270	207390_s_at
	interleukin 8	3,9 ▼	NM_000584	211506_s_at
	smoothelin	3,9 ▼	NM_006932 NM_134269 NM_134270	209427_at
	chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)	3,9 ▼	NM_002993	206336_at
	endothelial differentiation, sphingolipid G-protein-coupled receptor, 3	4,3 ▼	NM_005226	228176_at
oxidoreductase activity, acting on paired donors,	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H	13,2 ▲	NM_000963	204748_at

with incorporation or reduction of molecular oxygen	synthase and cyclooxygenase)			
	heme oxygenase (decycling) 1	10,7 ▲	NM_002133	203665_at
	cytochrome P450, family 1, subfamily A, polypeptide 1	10,1 ▲	NM_000499	205749_at
	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	9,9 ▲	NM_000963	1554997_a_at
	cytochrome P450, family 1, subfamily B, polypeptide 1	3,2 ▲	NM_000104	202436_s_at
	cytochrome P450, family 1, subfamily B, polypeptide 1	3,0 ▲	NM_000104	202437_s_at
Plasminogen activator activity	plasminogen activator, urokinase	3,4 ▲	NM_002658	211668_s_at
	serpin peptidase inhibitor, clade B (ovalbumin), member 2	3,2 ▲	NM_002575	204614_at
	plasminogen activator, urokinase	3,1 ▲	NM_002658	205479_s_at
Protein dimerization activity	activating transcription factor 3	10,8 ▲	NM_001030287 NM_001040619 NM_001674 NM_004024	202672_s_at
	v-fos FBJ murine osteosarcoma viral oncogene homolog	5,5 ▲	NM_005252	209189_at
	jun B proto-oncogene	4,7 ▲	NM_002229	201473_at
	Ras-related GTP binding C	4,5 ▲	NM_022157	222514_at
	DNA-damage-inducible transcript 3	4,3 ▲	NM_004083	209383_at
	activating transcription factor 3	3,9 ▲	NM_001030287 NM_001040619 NM_001674 NM_004024	1554980_a_at
	Ras-related GTP binding C	3,8 ▲	NM_022157	218088_s_at
	nuclear factor, interleukin 3 regulated	3,3 ▲	NM_005384	203574_at

regulation of I-kappaB kinase-NF-kappaB cascade	heme oxygenase (decycling) 1	10,7 ▲	NM_002133	203665_at
	polo-like kinase 2 (Drosophila)	3,6 ▲	NM_006622	201939_at
	sequestosome 1	3,1 ▲	NM_003900	201471_s_at
Sequence-specific DNA binding	activating transcription factor 3	10,8 ▲	NM_001030287 NM_001040619 NM_001674 NM_004024	202672_s_at
	v-fos FBJ murine osteosarcoma viral oncogene homolog	5,5 ▲	NM_005252	209189_at
	nuclear receptor subfamily 4, group A, member 2	5,2 ▲	NM_006186 NM_173171 NM_173172 NM_173173	204621_s_at
	nuclear receptor subfamily 4, group A, member 2	5,2 ▲	NM_006186 NM_173171 NM_173172 NM_173173	216248_s_at
	jun B proto-oncogene	4,7 ▲	NM_002229	201473_at
	nuclear receptor subfamily 4, group A, member 2	4,3 ▲	NM_006186 NM_173171 NM_173172 NM_173173	204622_x_at
	DNA-damage-inducible transcript 3	4,3 ▲	NM_004083	209383_at
	activating transcription factor 3	3,9 ▲	NM_001030287 NM_001040619 NM_001674 NM_004024	1554980_a_at
	nuclear receptor subfamily 4, group A, member 1	3,5 ▲	NM_002135 NM_173157 NM_173158	202340_x_at
	nuclear factor, interleukin 3 regulated	3,3 ▲	NM_005384	203574_at
	Nuclear receptor subfamily 2, group F, member 1	4,5 ▼	NM_005654	209505_at
Transcription regulator activity	Kruppel-like factor 4 (gut)	14,3 ▲	NM_004235	221841_s_at
	activating transcription factor 3	10,8 ▲	NM_001030287 NM_001040619 NM_001674	202672_s_at

			NM_004024	
	v-fos FBJ murine osteosarcoma viral oncogene homolog	5,5 ▲	NM_005252	209189_at
	hairy and enhancer of split 1, (Drosophila)	5,5 ▲	NM_005524	203394_s_at
	nuclear receptor subfamily 4, group A, member 2	5,2 ▲	NM_006186 NM_173171 NM_173172 NM_173173	204621_s_at
	nuclear receptor subfamily 4, group A, member 2	5,2 ▲	NM_006186 NM_173171 NM_173172 NM_173173	216248_s_at
	jun B proto-oncogene	4,7 ▲	NM_002229	201473_at
	hairy and enhancer of split 1, (Drosophila)	4,6 ▲	NM_005524	203395_s_at
	nuclear receptor subfamily 4, group A, member 2	4,3 ▲	NM_006186 NM_173171 NM_173172 NM_173173	204622_x_at
	DNA-damage-inducible transcript 3	4,3 ▲	NM_004083	209383_at
	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	4,2 ▲	NM_002166	201565_s_at
	activating transcription factor 3	3,9 ▲	NM_001030287 NM_001040619 NM_001674 NM_004024	1554980_a_at
	AT rich interactive domain 5B (MRF1-like)	3,6 ▲	NM_032199	212614_at
	nuclear receptor subfamily 4, group A, member 1	3,6 ▲	NM_002135 NM_173157 NM_173158	202340_x_at
	Kruppel-like factor 4 (gut)	3,4 ▲	NM_004235	220266_s_at
	nuclear factor, interleukin 3 regulated	3,3 ▲	NM_005384	203574_at
	Kruppel-like factor 2 (lung)	3,2 ▲	NM_016270	219371_s_at
	inhibitor of DNA binding 2, dominant negative helix-loop-	3,1 ▲	NM_001039082 NM_002166	201566_x_at

	helix protein /// inhibitor of DNA binding 2B, dominant negative helix-loop-helix protein			
	Nuclear receptor subfamily 2, group F, member 1	4,5 ▼	NM_005654	209505_at
Vesicular fraction	heme oxygenase (decycling) 1	10,7 ▲	NM_002133	203665_at
	cytochrome P450, family 1, subfamily A, polypeptide 1	10,1 ▲	NM_000499	205749_at
	cytochrome P450, family 1, subfamily B, polypeptide 1	3,2 ▲	NM_000104	202436_s_at
	cytochrome P450, family 1, subfamily B, polypeptide 1	3,0 ▲	NM_000104	202437_s_at
	dehydrogenase/reductase (SDR family) member 9	3,2 ▼	NM_005771 NM_199204	223952_x_at
	dehydrogenase/reductase (SDR family) member 9	3,5▼	NM_005771 NM_199204	224009_x_at
	dehydrogenase/reductase (SDR family) member 9	3,6 ▼	NM_005771 NM_199204	219799_s_at

Functional categories according to Gene Ontology

Relatively enriched categories ($p<0.01$). Genes, regulated after infection with the septicemic GBS strain ATCC®13813 were listed according to Gene Ontology (www.bioinfo.vanderbilt.edu/gotm) regarding function, process and cell localisation, based on a more than 3-fold difference compared to unstimulated HCAEC.