

1 **Supplement.**2 **DNA microarray data showing the altered gene expression in the medulla of CHF rats.**

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| Cluster Identification | Gene Bank Accession No | Description of Genes | Upregulation (+) or Downregulation (-) |
|-------------------------------|-------------------------------|---|---|
| 1369202_at | NM_017028.1 | Mx proteins | (+) |
| 1387164_at | NM_030854.1 | leukocyte cell derived chemotaxin 1 (Lect1) | (+) |
| 1380651_at | BI296352 | ring finger protein (C3H2C3 type) | (+) |
| 1394689_at | BE117217 | BAC clone RP23-202I21 from 18 | (+) |
| 1372923_at | BG377340 | Rattus norvegicus peroxisomal biogenesis factor 11b (predicted) (Pex11b predicted), | (+) |
| 1380552_at | AI555855 | nuclear factor I/X (CCAAT-binding transcription factor) | (+) |
| 1385314_at | AA923974 | ESTs | (+) |
| 1395966_at | BI282914 | BAC clone RP23-473E20 from 7, | (+) |
| 1387366_at | NM_053412.1 | interleukin enhancer binding factor 3 (Ilf3) | (+) |
| 1383864_at | BF412512 | ESTs | (+) |
| 1378068_at | AW529368 | 13 BAC CH230-72B9 | (+) |
| 1387868_at | BF289368 | Rattus norvegicus lipopolysaccharide binding protein (Lbp) | (+) |
| 1387144_at | NM_030994.1 | integrin alpha 1 (Itga1) | (+) |
| 1388004_at | AF087947.1 | G protein-coupled receptor GPCR/CNS2 mRNA | (+) |
| 1373266_at | BG380826 | Rattus norvegicus cDNA clone MGC:105610 IMAGE:7316049 | (+) |
| 26.1368182_at | NM_130739.1 | acyl-CoA synthetase long-chain family member 6 (Acsl6), | (+) |
| 1379472_at | AI232666 | ESTs | (+) |
| 1378065_at | BI274450 | ESTs | (+) |
| 1397326_at | BE119158 | ESTs | (+) |
| 1367612_at | NM_134349.1 | microsomal glutathione S-transferase 1 (Mgst1), | (+) |
| 1394793_at | AI715674 | ESTs | (+) |
| 1367823_at | BF523128 | ESTs | (+) |
| 1369798_at | U45946.1 | Na,K-ATPase beta 2 subunit (ATP1B2) mRNA | (+) |
| 1371102_at | X05080.1 | beta-globin | (-) |
| 1370501_at | AF099093.1 | ubiquitin-conjugating enzyme UBC7 | (-) |
| 1376723_at | AW142765 | ESTs | (-) |
| 1386985_at | M28241.1 | S-transferase mRNA | (-) |
| 1385407_at | AI511405 | ESTs | (-) |
| 1367581_at | AB001382.1 | mRNA for osteopontin | (-) |
| 1369151_at | NM_053744.1 | delta-like 1 homolog (Drosophila) (Dlk1), | (-) |
| 1378252_at | AI029745 | Transcribed locus | (-) |
| 1389868_at | AA850780 | Trehalase (brush-border membrane lycoprotein) carbohydrate metabolism trehalose metabolism organogenesis alpha, | (-) |

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|------------|-------------|---|-----|
| | | alpha-trehalase activity hydrolase activity hydrolase activity, acting on glycosyl bonds | |
| 1377513_at | BI287026 | ESTs | (-) |
| 1375687_at | BE097926 | RAB14, member RAS oncogene family intracellular protein transport small GTPase mediated signal transduction neurotransmitter secretion protein transport vesicle-mediated transport GTP binding protein transporter activity | (-) |
| 1371954_at | BF290193 | ESTs | (-) |
| 1370145_at | NM_023988.1 | zinc finger protein 354C (Znf354c), | (-) |
| 1382127_at | AI716708 | ESTs | (-) |
| 1371237_at | AF411318.1 | metallothionein 1 mRNA | (-) |
| 1393006_at | BF282112 | ESTs | (-) |
| 1386879_at | NM_031832.1 | lectin, galactose binding, soluble 3 (Lgals3), | (-) |
| 1367985_at | NM_013197.1 | aminolevulinic acid synthase 2 (Alas2), | (-) |
| 1387659_at | AF245172.1 | guanine deaminase (Gda) mRNA | (-) |
| 1379058_at | AA900904 | Transcribed locus | (-) |
| 1375905_at | AI412746 | ESTs | (-) |
| 1394643_at | AA819409 | Transcribed locus | (-) |
| 1382368_at | AA943075 | ESTs | (-) |
| 1369144_at | NM_031739.1 | potassium voltage gated channel, Shal- related family, member 3 (Kcnd3), mRNA | (-) |
| 1396289_at | BI283720 | Rattus norvegicus similar to MAM domain containing glycosylphosphatidylinositol anchor 1; glycosyl-phosphatidyl-inositol- MAM (LOC309659), mRNA. | (-) |
| 1382778_at | AI231350 | Dual specificity phosphatase 6 protein amino acid dephosphorylation cell differentiation | (-) |
| 1368064_at | U31884.1 | dopa decarboxylase amino acid metabolism dopamine metabolism catecholamine biosynthesis serotonin metabolism aromatic L-amino acid decarboxylase mRNA | (-) |
| 1391089_at | AW527270 | Transcribed locus | (-) |
| 1369132_at | M97381.1 | synaptic vesicle amine transporter (SVAT) mRNA | (-) |
| 1369131_at | NM_013031.1 | solute carrier family 18 (vesicular monoamine), member 2 (Slc18a2), | (-) |
| 1384933_at | BF545691 | Solute carrier family 18 (vesicular monoamine), member 2 transport neurotransmitter transport synaptic vesicle amine transport carbon utilization by fixation of carbon dioxide | (-) |
| 1396950_at | BF405915 | ESTs | (-) |
| 1368348_at | NM_013034.1 | solute carrier family 6 (neurotransmitter transporter, serotonin), member 4 (Slc6a4) | (-) |