

On-line Table: Gene expression pattern of aneurysms at 2 weeks and 12 weeks*

Gene Name	GenBank ID	2 Weeks	12 Weeks	12 Weeks vs 2 Weeks
Cell adhesion				
Integrin β 1	AY195896	–	NS	+
Integrin β 3	AF184591	–	–	+
Integrin β 8	M73781	–	NS	+
E-selectin	M91004	–	NS	+
P-selectin	U39446	–	NS	+
Growth-regulated oncogene (GRO)	U12310	–	NS	+
Vascular cell adhesion molecule-1 (VCAM-1)	AY212510	+	+	+
Cadherin	U289450	–	NS	+
Apoptosis				
DRAK1	AB04219	–	NS	+
Thrombospondin 1	AF454919	+	+	–
Fas antigen	AB021296	+	+	+
PAR γ 3	AY166781	NS	+	+
Cell cycle control/cell signaling pathways				
Bone morphogenetic protein-2	AF041421	–	–	+
Bone morphogenetic protein-4	AF042497	–	NS	+
Bone morphogenetic protein-5	AF412307	–	–	NS
Bone morphogenetic protein-7	AF413111	–	–	+
Caveolin	AF495878	–	NS	NS
Calmodulin dependent protein kinase II γ	D14905	–	–	+
Troponin C	J03462	–	–	+
MAP kinase activated protein kinase-2	X75345	–	–	+
Protein phosphatase-1	Y00701	+	NS	–
MAP kinase kinase-1	Z30163	–	NS	+
Chemokines/cytokines/inflammation				
Interferon γ	AB01038	–	–	+
Interleukin-1	D21835	–	NS	+
Interleukin-1 receptor antagonist	D21832	–	NS	+
Interleukin-2	AF068057	–	–	+
Interleukin-4	AF169170	–	–	+
Interleukin-6	AF169176	–	–	+
Interleukin-8 receptor subtype B	L24445	–	NS	+
Interleukin-8 receptor	M58021	–	–	+
Interleukin-10	AF068058	–	+	+
Neutrophil-activating peptide 78	AF123437	–	NS	+
Neutrophil attractant/activation protein-1	M57439	–	NS	+
Tumor necrosis factor	M12845	–	–	+
Lectinlike oxidized LDL receptor	AB016237	–	–	+
Osteonectin	AF247647	+	+	–
Nuclear factor of activated T-cells	AJ291311	–	NS	+
CD86	D49842	–	NS	+
MHC class II RLA-DR- α	M28161	–	NS	+
HLA-DOB gene homologue II	M96942	NS	+	+
Growth factors and related genes				
Fibroblast growth factor	L12034	–	–	+
Fibroblast growth factor receptor-2	AF184968	–	NS	+
Insulinlike growth factor-1	AF022961	+	NS	–
Insulinlike growth factor-2	U75390	+	+	–
Platelet-derived growth factor- β	AB020215	–	NS	+
Transforming growth factor β -1	AF000133	–	–	+
Transforming growth factor β -2	AY429466	–	NS	NS
Vascular endothelial cell growth factor	AY196796	–	NS	NS
Vascular endothelial growth factor receptor-3	AF453570	–	–	+
Vascular endothelial growth factor receptor-2/Flk-1	AB017155	–	–	+
Elongation factor-1 α	U09823	–	+	+
Elongation factor-1 A2	AF035178	–	–	+
Coroninlike protein pp66	AF056312	–	NS	+
Coronin Retinoic acid receptor RXR α	AF136242	–	NS	+
Heparin-binding epidermal growth factor	AF333182	–	–	+
Protein kinase C β	X04795	NS	+	+
Protein kinase C δ	M19338	–	–	+
Protein kinase C γ	X04796	–	NS	+
Protein kinase C-n	M20014	–	NS	+
Protein kinase c ζ	U78768	–	NS	+

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Phosphorylase kinase α	M64656	-	-	+
Phosphorylase kinase β subunit	M64657	-	-	+
Epithelial Rho-associated-ser/thr kinase	U42424	-	NS	+
Rsc oncogene	U82163	-	-	+
Receptor tyrosine kinase (ErbB2)	AF333178	-	NS	+
Serum and glucocorticoid-regulated protein kinase	AF139639	-	NS	+
Vascular remodeling				
Matrix metalloproteinase-1	M17820	-	-	+
Matrix metalloproteinase-2	D63579	+	+	-
Matrix metalloproteinase-3	AF059201	-	NS	+
Matrix metalloproteinase-9	D26514	+	+	+
Matrix metalloproteinase-12	AB006779	+	NS	NS
Matrix metalloproteinase-14-membrane type 1	U73940	-	NS	+
Matrix metalloproteinase-15-membrane type 2	U83918	-	-	+
Tissue inhibitor of metalloproteinase-1	J04712	+	+	-
Tissue inhibitor of metalloproteinase-2	AF069713	+	+	-
Tissue inhibitor of metalloproteinase-3	AF069714	+	+	-
Tissue inhibitor of metalloproteinase-4	AF069715	-	+	+
Lens-specific calpain	AF148956	-	-	+
Eppin	AF346415	-	NS	-
α -1-antitrypsin	L12139	-	NS	+
Metalloproteinase synovial cell activator	M25664	-	-	+
Tissue factor pathway inhibitor-Kunitz-type	S61902	NS	+	-
Fertilin α	U46069	-	NS	+
FK506 binding protein	AY159324	-	NS	+
Neuregulin-1 α	AY421758	-	-	+
Cathepsin B	L08418	-	NS	+
Cellular disintegrin ADAM 6d	U82750	-	NS	NS
Cellular disintegrin ADAM 6e	U82751	-	-	+
Urokinase plasminogen activator (uPA)	AY453856	NS	+	+
Tissue-type plasminogen activator (tPA)	AY029518	-	NS	+
Putative plasminogen activator inhibitor-1	AF074325	-	-	+
Oxidative stress				
Cytochrome P450 2D/I	AB008784	-	NS	+
Cytochrome P450 2D/II	AB008785	-	NS	NS
Cytochrome P-450 isozyme 6	M19917	-	-	+
Cytochrome P-450 LM4	M36538	-	-	+
Cytochrome P-450 2B-Bx	L10912	-	NS	+
NADPH-cytochrome P450 reductase	E01314	+	+	-
Copper/zinc-superoxide dismutase	L12405	-	-	+
Extracellular superoxide dismutase	Z67878	-	-	+
Glutathione peroxidase	X13837	-	NS	+
Glutathione S-transferase	L23766	NS	-	-
Alcohol dehydrogenase I	X69799	NS	+	+
Alcohol dehydrogenase II	AJ002388	-	NS	+
12-lipoxygenase	Z97654	-	NS	+
Heme oxygenase-2	S61699	-	NS	+
Structural molecules				
Large aggregating cartilage proteoglycan core protein	AB004812	-	NS	+
Osteoglycin	AF487889	-	+	-
Collagen II	D83228	-	NS	+
Collagen II α	D49399	+	-	-
Collagen III	S83371	+	+	+
Collagen IV	L01477	-	-	+
Collagen V	AF451331	+	+	-
Collagen VIII	J05042	+	+	-
Collagen X	AF247705	-	-	+
Collagen XII	S78179	-	NS	+
Collagen NC1 α 3 type IV	L47283	-	NS	+
Myosin light chain	M21983	-	-	+
Myosin heavy chain	U32574	-	-	+
Vitronectin	M55442	-	NS	+
Muscle α -actinin	X62075	-	-	-
Titin	X64696	-	-	+

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Transcription factors				
Upstream stimulatory factor 1a	AF003894	—	NS	+
Upstream stimulatory factor 1b	AF003895	—	—	+
Pregnane x receptor	AF182217	—	—	+
c-myc	AJ291307	—	—	+
Early growth response 1 zinc-finger transcription factor (egr-1 gene)	AJ291320	—	NS	+
Forkhead transcription factor L2	AY340972	—	NS	+
RUSH-1 α	U66564	—	—	+
Classical vascular/circulatory molecules				
Thrombin receptor	S73493	—	NS	+
Transferrin	AB010995	—	NS	+
Metabotropic glutamate receptor-6	AY275542	—	NS	+
Glucose transporter type-4	AY339876	—	NS	+
Blood coagulation factor VII	U77477	—	—	+
Blood coagulation factor X	AF003200	—	—	+
Blood coagulation factor XI	AF395821	—	—	+
Prothrombin precursor	AF080065	—	NS	+
Adenosine A3 receptor	AF145438	—	NS	+
Glycoprotein IIb	AF170528	—	—	+
Glycoprotein IIIa	AF170529	—	NS	+
Endothelin-1	X59931	NS	+	+
Endothelin converting enzyme	AY421757	—	NS	NS
Endothelin receptor A	AF311974	—	—	+
Endothelin receptor B	AF245469	—	—	+
Haptoglobin	AF372520	—	—	NS
Endothelial differentiation gene 1	AF404275	—	NS	NS
Acyl CoA binding protein	AF407578	—	—	+
Annexin VIII	AF012745	—	NS	+
Annexin XIIIb	AF510726	—	—	+
Hypoxia inducible factor 1 α subunit	AY273790	—	NS	+
CAP-50	D10883	—	NS	+
Angiotensin converting enzyme	J05041	—	—	+
Angiotensin-converting isozyme gene	L23202	—	NS	NS
Angiotensin receptor 2	AF451328	—	NS	+
Thrombin	M81396	—	NS	+
Albumin precursor	U18344	—	—	+
Apolipoprotein A-I	X06659	—	NS	+
Apolipoprotein B mRNA editing protein	U10695	—	—	+
Apolipoprotein C-IV	U39356	—	NS	+
Apolipoprotein E	M36603	+	NS	—
Tryptophan hydroxylase	M17250	—	NS	+
Nitric oxide synthase	U91584	—	—	+
Endothelial nitric oxide synthase (eNOS)	AY179960	NS	—	+
Inducible nitric oxide synthase (iNOS)	U85094	—	NS	NS
Neuronal nitric oxide synthase (nNOS)	AF200350	—	NS	+
Protein inhibitor of neuronal nitric oxide synthase	AF020710	—	—	+

Note:—ID indicates identification; +, the gene was up-regulated; —, the gene was down-regulated; NS, no significant difference when comparing aneurysms with controls or comparing aneurysm at 12 weeks with 2 weeks.

* Statistical significance was taken as a *P* value of < .05.