Table 1. GO functional classification of 358 genes selected from DNA microarray analysis.

Functional category (GO: Molecular function)		Number of matched genes				
		Selected genes		RefSeq		
		(358 genes)	%	(24,210 cDNAs)	%	
Binding	Nucleic acid binding	25	(14.4)	706	(8.9)	
	Nucleotide binding	20	(11.5)	1,047	(13.2)	
	Ion binding	12	(6.9)	245	(3.1)	
	Protein binding	9	(5.2)	450	(5.7)	
	Other bindings	3	(1.7)	304	(3.8)	
Catalytic activity	Transferase activity	19	(10.9)	808	(10.2)	
	Hydrolase activity	15	(8.6)	902	(11.3)	
	Ligase activity	9	(5.2)	107	(1.3)	
	Other catalytic activity	11	(6.3)	653	(8.2)	
Transcription regulator activity		18	(10.3)	364	(4.6)	
Signal transducer activity		12	(6.9)	879	(11.0)	
Transporter activity		11	(6.3)	997	(12.5)	
Structural molecule activity		4	(2.3)	163	(2.0)	
Enzyme regulator activity		3	(1.7)	142	(1.8)	
Others		3	(1.7)	193	(2.4)	
Total		174		7,960		

Total refers to the number of cDNAs used for the classification of molecular function. We categorized each cDNA used for identifying the genomic regions of extracted 423 probes. Results obtained using the cDNAs transcribed from the same genomic region were merged. We categorized 24,210 human RefSeq and identified 20,072 protein-coding genes. Results obtained using the human RefSeq transcribed from the same genomic region were also merged. If an encoded protein was predicted to belong to two or more categories, it was counted every time.

Table 2. Quantitative evaluation of 12 transcription factors by real-time PCR.

AS pattern	Gene symbol		Change in expression level compared to the 0-day sample			
		cDNA name	1-day	2- day	7- day	Expression pattern
Alt. N-terminus ETV1 ETV4 ETV5 HOXA3 PAX6 POU5F1	ETV1	NM_004956.3	±	\downarrow	±	Differ
		FLJ50494	±	±	\downarrow	
	ETV4	NM_001986.1	±	\downarrow	\downarrow	Same
		BC007242.1	±	\downarrow	\downarrow	
	ETV5	NM_004454.1	\downarrow	\downarrow	\downarrow	Differ
		FLJ56169	±	\downarrow	\downarrow	
	HOXA3	NM_030661.3	$\uparrow \uparrow$	$\uparrow \uparrow \uparrow$	$\uparrow \uparrow \uparrow$	Differ
		NM_153632.1	±	↑	↑	
	PAX6	NM_000280.2	↑	↑	$\uparrow \uparrow$	Same
		FLJ36930	\uparrow	\uparrow	$\uparrow \uparrow$	
	POU5F1	NM_002701.3	±	±	\downarrow	Differ
		NM_203289.3	±	\downarrow	\downarrow	
	RARB	NM_000965.2	↑	$\uparrow \uparrow$	$\uparrow \uparrow$	Differ
		FLJ56241	↑	↑	↑	
H Pi	HNF1B	NM_000458.1	↑	$\uparrow \uparrow$	$\uparrow \uparrow$	Same
		NM_006481.1	\uparrow	$\uparrow \uparrow$	$\uparrow \uparrow$	
	HOXA2	NM_006735.3	$\uparrow \uparrow \uparrow$	$\uparrow \uparrow \uparrow$	$\uparrow \uparrow \uparrow$	Differ
		FLJ39423	$\uparrow \uparrow$	$\uparrow \uparrow$	$\uparrow \uparrow \uparrow$	
	PEG3	NM_006210.1	±	±	1	Differ
		NM_015363.3	±	±	±	
	ZNF483	NM_133464.1	±	\downarrow	\downarrow	Differ
		FLJ35492	±	±	↓	
Alt. cassette-exon	RFX2	NM_000635.2	±	<u></u>	<u> </u>	Same
		FLJ53376	±	↑	↑	

Out of the 18 transcription factors, 6 transcription factors – namely GATA6 (NM_005257.3), GBX2 (NM_001485.2), HESX1 (NM_003865.1), HOXB2 (NM_002145.2), HOXB4 (NM_024015.3) and HOXC4 (NM_014620.2) - produced only single protein-coding transcripts. They are not shown in this table. Symbols used to indicate Differences of mean averages of log2 ratios between the control (0-day) and experimental samples (1-day, 2-day and 7-day): " \pm ", >1/2 but <twofold; " \downarrow ", > 1/100 but \leq 1/2; " \uparrow ", \geq twofold but < 100-fold but < 100-fold but < 1000-fold