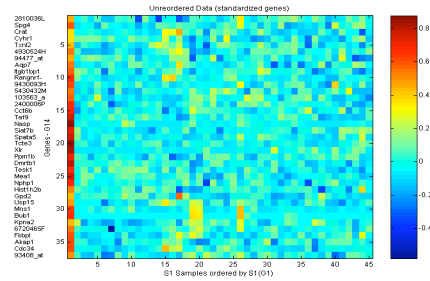


Table 3. Regulation of expression of normal tissue-specific genes in M1-t-p53 myeloid leukemic cells by wt p53 and IL-6

Testis

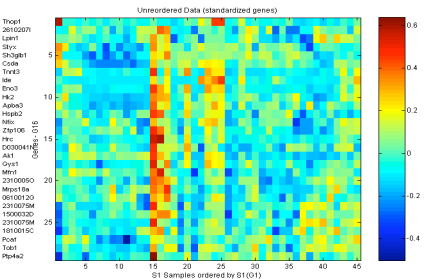
(Cluster a)
size 37



	Probeset ID	Gene symbol	Gene title	Accession no.	Regulation by
1	100562_at	Rangnr	RAN guanine nucleotide release factor	AI846319	p53 down
2	100990_g_at	Itgb1bp1	Integrin beta 1 binding protein 1	AJ001373	p53 down
3	101108_at	Nasp	Nuclear autoantigenic sperm protein (histone-binding)	AF034610	p53 down
4	101417_at	Dmrtb1	DMRT-like family B with proline-rich C-terminal, 1	AF020191	IL-6 down
5	101836_at	Ppm1b	Protein phosphatase 1B, magnesium dependent, beta isoform	D45859	p53 up
6	101859_at	Aqp7	Aquaporin 7	AB010100	
7	102033_at	Tesk1	Testis specific protein kinase 1	AB003494	p53 down
8	102206_at	Fkbp1	FK506 binding protein-like	AF030001	
9	103073_i_at	Taf9	TAF9 RNA polymerase II, TATA box binding protein (TBP)-associated factor	AI842969	IL-6 up
10	103343_at	5430432M24Rik	RIKEN cDNA 5430432M24 gene	AI845815	
11	103467_g_at	Cyhr1	Cysteine and histidine rich 1	AA790056	p53 down
12	103468_at	Mns1	Eiosis-specific nuclear structural protein 1	D14849	p53 down
13	103525_at	2810036L13Rik	RIKEN cDNA 2810036L13 gene	AA981725	
14	103563_at	103563_at	Mus musculus 10 days neonate olfactory brain cDNA, RIKEN full-length enriched lib	AW125713	p53 up
15	103646_at	Crat	Carnitine acetyltransferase	X85983	p53 down
16	104097_at	Bub1	Budding uninhibited by benzimidazoles 1 homolog (S. cerevisiae)	AF002823	IL-6 up
17	92419_at	Cct6b	Chaperonin subunit 6b (zeta)	AB022086	p53 down
18	92665_f_at	Xlr	X-linked lymphocyte-regulated complex	X07967	p53 up
19	92790_at	Kpna2	Karyopherin (importin) alpha 2	D55720	p53 down
20	93408_at	93408_at	Mus musculus transcribed sequences	AI850482	
21	93834_at	Hist1h2bp	Histone 1, H2bp	M25487	p53 up
22	94048_at	Cdc34	Cell division cycle 34 homolog (S. cerevisiae)	AW120683	p53 up
23	94274_at	6720465F12Rik	RIKEN cDNA 6720465F12 gene	AI837415	p53 down
24	94387_at	Spata5	Spermatogenesis associated 5	AF016544	
25	94477_at	94477_at	Mus musculus, clone MGC:6827 IMAGE:2649084, mRNA, complete cds	AW123796	IL-6 down
26	94891_s_at	Mea1	Male enhanced antigen 1	M27938	p53 down
27	95416_at	Usp15	Ubiquitin specific protease 15	AI642184	
28	95696_at	Txnl2	Thioredoxin-like 2	AI840882	p53 up
29	96106_at	2400006P09Rik	RIKEN cDNA 2400006P09 gene	AW049122	IL-6 down
30	96263_at	4930524H12Rik	RIKEN cDNA 4930524H12 gene	AW124933	IL-6 down
31	97369_g_at	Akap1	A kinase (PRKA) anchor protein 1	U95145	
32	97391_at	9430093H08Rik	RIKEN cDNA 9430093H08 gene	AW012196	p53 down
33	98428_at	Spg4	Spastic paraplegia 4 homolog (human)	AJ246002	
34	98614_at	Nphp1	Nephronophthisis 1 (juvenile) homolog (human)	AJ243223	IL-6 up
35	98984_f_at	Gpd2	Glycerol phosphate dehydrogenase 2, mitochondrial	D50430	p53 up
36	99055_at	Siat7b	Sialyltransferase 7 ((alpha-N-acetylneuraminyl 2,3-beta-galactosyl-1,3)-N-acetyl gal:	X94000	
37	99134_at	Tcte3	T-complex-associated testis expressed 3	U21673	p53 up

Skeletal muscle_heart

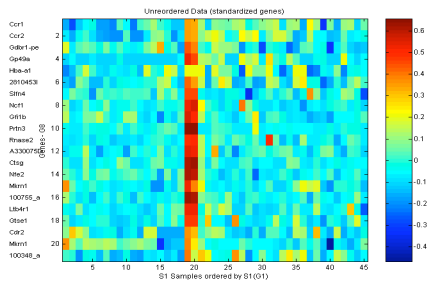
(Cluster b)
size 29



Probeset ID	Gene symbol	Gene title	Accession no.	Regulation by	
1	100595_at	Ptp4a2	Protein tyrosine phosphatase 4a2	AF035644	p53 up
2	101930_at	Nfix	Nuclear factor I/X	Y07688	p53 down
3	102750_at	Apba3	Amyloid beta (A4) precursor protein-binding, family A, member 3	AF070975	p53 down
4	103215_g_at	Hspb2	Heat shock protein 2	AW048883	p53 up
5	104025_at	Thop1	Thimet oligopeptidase 1	AW047185	p53 down
6	104070_at	Pcaf	p300/CBP-associated factor	AW047728	p53 up
7	104767_f_at	Mrps18a	Mitochondrial ribosomal protein S18A	AW060921	
8	92371_at	Hrc	Histidine rich calcium binding protein	AI505355	p53 up
9	92885_at	Tnnt3	Troponin T3, skeletal, fast	L48989	
10	92888_s_at	Styx	Phosphoserine/threonine/tyrosine interaction protein	U34973	p53 down
11	94375_at	Hk2	Hexokinase 2	Y11666	p53 down
12	94380_at	Ide	Insulin degrading enzyme	AI852581	p53 down
13	94531_at	2310005O14Rik	RIKEN cDNA 2310005O14 gene	AW124582	p53 down
14	94870_f_at	2310075M17Rik	RIKEN cDNA 2310075M17 gene	AW124226	p53 down
15	94871_r_at	2310075M17Rik	RIKEN cDNA 2310075M17 gene	AW124226	
16	95518_at	1810015C04Rik	RIKEN cDNA 1810015C04 gene	AW122893	IL-6 down
17	95533_at	Zfp106	Zinc finger protein 106	AW048037	p53 up
18	95594_at	Mfn1	Mitofusin 1	AI847486	p53 up
19	95755_at	Csda	Cold shock domain protein A	D14485	
20	96095_i_at	2610207116Rik	RIKEN cDNA 2610207116 gene	AI648018	p53 up
21	96344_at	Eno3	Enolase 3, beta muscle	X61600	p53 down
22	96801_at	Ak1	Adenylate kinase 1	AJ010108	p53 up
23	97874_at	1500032D16Rik	RIKEN cDNA 1500032D16 gene	AI853863	p53 down
24	98496_at	Gys1	Glycogen synthase 1, muscle	U53218	p53 down
25	98878_r_at	D030041N15Rik	RIKEN cDNA D030041N15 gene	AW050141	p53 up
26	98892_at	Lpin1	Lipin 1	AI846934	p53 up
27	98945_at	Sh3glb1	SH3-domain GRB2-like B1 (endophilin)	AW125190	IL-6 up
28	99166_at	0610012G03Rik	RIKEN cDNA 0610012G03 gene	AI845963	IL-6 down
29	99532_at	Tob1	Transducer of ErbB-2.1	D78382	p53 up

Bone marrow, bone

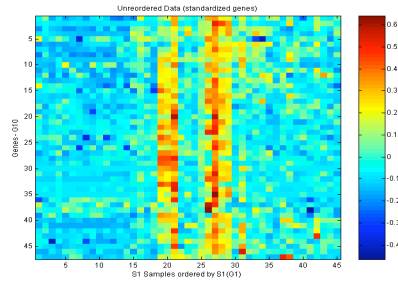
(Cluster c1)
size 21



Probeset ID	Gene symbol	Gene title	Accession no.	Regulation by	
1	100325_at	Gp49a	Glycoprotein 49 A	M65027	IL-6 up
2	100348_at	100348_at	---	AW214136	p53 up
3	100755_at	100755_at	---	U04962	p53 down
4	101069_g_at	Mkrm1	Makorin, ring finger protein, 1	AA656621	p53 up
5	101070_at	Mkrm1	Makorin, ring finger protein, 1	AW125438	p53 up
6	102260_at	Gfi1b	Growth factor independent 1B	AF017275	p53 down
7	103240_f_at	Rnase2	Ribonuclease, RNase A family, 2	AF017258	IL-6 down
8	103266_at	Ltb4r1	Leukotriene B4 receptor 1	AF044030	p53 up
9	103270_at	Gtse1	G two S phase expressed protein 1	AJ222580	p53 up
10	104393_at	2810453I06Rik	RIKEN cDNA 2810453I06 gene	AI843571	p53 down
11	104541_at	Ptn3	Proteinase 3	U43525	p53 down
12	92315_at	Sfn4	Schlafen 4	AF099977	p53 up
13	92924_at	Ctsg	Cathepsin G	X70057	p53 down
14	93094_at	Cdr2	Cerebellar degeneration-related 2	U88588	p53 down
15	93397_at	Ccr2	Chemokine (C-C) receptor 2	U56819	IL-6 up
16	94781_at	Hba-a1	Hemoglobin alpha, adult chain 1	V00714	p53 up
17	95303_at	A330075D07	Hypothetical protein A330075D07	AA144469	IL-6 up
18	97407_at	Gdbr1-pending	Putative glioblastoma cell differentiation-related	AI848025	
19	97763_at	Ncf1	Neutrophil cytosolic factor 1	AB002663	p53 down
20	98010_at	Nfe2	Nuclear factor, erythroid derived 2	L09600	p53 down
21	99413_at	Ccr1	Chemokine (C-C motif) receptor 1	U29678	IL-6 up

Bone marrow, bone, spleen, thymus, lymph node, trachea, adipose

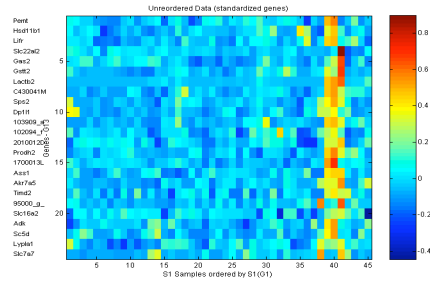
(Cluster c2)
size 47



	Probeset ID	Gene symbol	Gene title	Accession no.	Regulation by
1	100328_s_at	Pira3	Paired-Ig-like receptor A3	U96684	IL-6 up
2	100468_g_at	Lyl1	Lymphoblastic leukemia	X57687	p53 down
3	100511_at	6330406L22Rik	RIKEN cDNA 6330406L22 gene	AI154249	p53 down
4	101019_at	Ctsc	Cathepsin C	U74683	p53 down
5	101048_at	Ptpcr	Protein tyrosine phosphatase, receptor type, C	M14343	IL-6 up
6	101753_s_at	Lzp-s	P lysozyme structural	X51547	p53 down
7	101918_at	Tgfb1	Transforming growth factor, beta 1	AJ009862	p53 down
8	102021_at	Il4ra	Interleukin 4 receptor, alpha	M27960	IL-6 up
9	102064_at	Casp1	Caspase 1	L28095	IL-6 up
10	102104_f_at	Ms4a6b	Membrane-spanning 4-domains, subfamily A, member 6B	AI504305	p53 down
11	102318_at	Siat8d	Sialyltransferase 8 (alpha-2, 8-sialyltransferase) D	X86000	p53 down
12	102353_at	Itgb2	Integrin beta 2	M31039	p53 up
13	102397_at	Cbfa2t3h	Core-binding factor, runt domain, alpha subunit 2; translocated to, 3 homolog (huma	AF038029	p53 down
14	102791_at	Psmb8	Proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional protea	U22033	p53 down
15	102851_s_at	Hcph	Hemopoietic cell phosphatase	M68902	p53 down
16	102884_at	Inpp5d	Inositol polyphosphate-5-phosphatase D	U51742	p53 down
17	102906_at	Tgtp	T-cell specific GTPase	L38444	IL-6 up
18	102914_s_at	102914_s_at	---	U23778	p53 up
19	103035_at	Tap1	Transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	U60020	p53 up
20	103408_at	AI325941	Expressed sequence AI325941	AI007117	p53 up
21	103571_at	Lst1	Leukocyte specific transcript 1	U72644	p53 down
22	103579_at	Rac2	RAS-related C3 botulinum substrate 2	X53247	p53 down
23	103629_g_at	Lef1	Lymphoid enhancer binding factor 1	D16503	
24	103662_at	Ncf4	Neutrophil cytosolic factor 4	U59488	p53 down
25	104173_at	Ms4a1	Membrane-spanning 4-domains, subfamily A, member 1	AA797989	IL-6 up
26	104257_g_at	Pscdbp	Pleckstrin homology, Sec7 and coiled-coil domains, binding protein	AI120844	IL-6 up
27	104639_i_at	4930553M18Rik	RIKEN cDNA 4930553M18 gene	AI464596	p53 up
28	104750_at	Ifi47	Interferon gamma inducible protein	M63630	p53 down
29	92356_at	Ptpn8	Protein tyrosine phosphatase, non-receptor type 8	M90388	p53 up
30	92483_g_at	Fmnl	Formin-like	AF006466	p53 down
31	92668_at	Btk	Bruton agammaglobulinemia tyrosine kinase	L10627	p53 down
32	92832_at	Socs1	Suppressor of cytokine signaling 1	U88325	IL-6 up
33	93085_at	Psmb9	Proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional protea	D44456	p53 down
34	93086_at	Igk-V8	Immunoglobulin kappa chain variable 8 (V8)	M18237	
35	93321_at	Ifi203	Interferon activated gene 203	AF022371	p53 down
36	93583_s_at	Igh-6	Immunoglobulin heavy chain 6 (heavy chain of IgM)	V00817	p53 down
37	93584_at	Igh-6	Immunoglobulin heavy chain 6 (heavy chain of IgM)	V00821	p53 down
38	93680_at	Stk10	Serine/threonine kinase 10	D89728	p53 down
39	93869_s_at	93869_s_at		U23781	p53 up
40	94224_s_at	Ifi205	Interferon activated gene 205	M74123	p53 down
41	94939_at	Cd53	CD53 antigen	X97227	IL-6 up
42	96752_at	Icam1	Intercellular adhesion molecule	M90551	p53 up
43	97963_at	Sipa1	Signal-induced proliferation associated gene 1	D11374	p53 down
44	98002_at	Icsbp1	Interferon consensus sequence binding protein 1	M32489	p53 down
45	98406_at	Ccl5	Chemokine (C-C motif) ligand 5	AF065947	p53 down
46	98465_f_at	Ifi204	Interferon activated gene 204	M31419	p53 down
47	99030_at	Il7r	Interleukin 7 receptor	M29697	IL-6 down

Liver, gall bladder, kidney

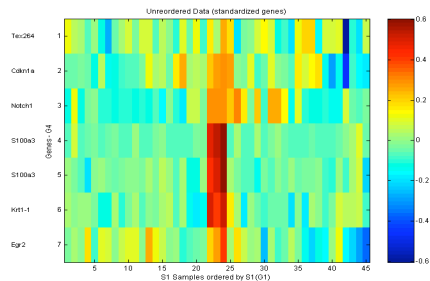
(Cluster d)
size 24



	Probeset ID	Gene symbol	Gene title	Accession no.	Regulation by
1	100491_at	Slc16a2	Solute carrier family 16 (monocarboxylic acid transporters), member 2	AF045692	IL-6 down
2	101946_at	Lypl1	Lysophospholipase 1	AA840463	p53 up
3	102094_f_at	102094_f_at	---	A1841270	IL-6 down
4	102429_at	Slc22a2	Solute carrier family 22 (organic cation transporter)-like 2	AB005451	
5	102768_i_at	Sc5d	Sterol-C5-desaturase (fungal ERG3, delta-5-desaturase) homolog (S. cerevisiae)	AB016248	IL-6 up
6	103391_at	C430041M20	Hypothetical protein C430041M20	A988033	
7	103452_at	Prodh2	Proline dehydrogenase (oxidase) 2	AA675075	
8	103818_at	Slc7a7	Solute carrier family 7 (cationic amino acid transporter, y+ system), member 7	AJ012754	p53 down
9	103909_at	103909_at	Mus musculus copper chaperone for superoxide dismutase, mRNA (cDNA clone M	XA1839702	p53 up
10	104603_at	Gstt2	Glutathione S-transferase, theta 2	X98056	p53 down
11	104659_g_at	Lifr	Leukemia inhibitory factor receptor	D17444	IL-6 up
12	104726_at	1700013L23Rik	RIKEN cDNA 1700013L23 gene	AA670737	IL-6 down
13	93512_f_at	Adk	Adenosine kinase	AW121801	p53 down
14	93557_at	Sps2	Selenophosphate synthetase 2	U43285	p53 down
15	94338_g_at	Gas2	Growth arrest specific 2	M21828	p53 up
16	94987_at	Pemt	Phosphatidylethanolamine N-methyltransferase	U25051	
17	95000_g_at	95000_g_at	Mus Musculus mRNA for hypothetical protein	AJ010338	p53 up
18	96069_at	Akr7a5	Aldo-keto reductase family 7, member A5 (aflatoxin aldehyde reductase)	A1840094	p53 down
19	96134_at	Dp111	Deleted in polyposis 1-like 1	AA755260	p53 down
20	96231_at	2010012D11Rik	RIKEN cDNA 2010012D11 gene	AW123780	IL-6 down
21	97257_at	Lactb2	Lactamase, beta 2	AW122766	p53 up
22	97335_at	Timd2	T-cell immunoglobulin and mucin domain containing 2	AA795198	IL-6 down
23	97521_at	Ass1	Argininosuccinate synthetase 1	M31690	p53 up
24	97867_at	Hsd11b1	Hydroxysteroid 11-beta dehydrogenase 1	X83202	IL-6 up

Digits, epidermis,
snout, epidermis

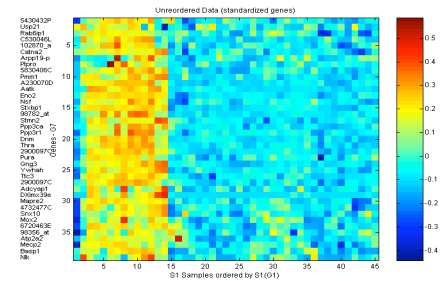
(Cluster e)
size 7



	Probeset ID	Gene symbol	Gene title	Accession no.	Regulation by
1	101051_at	S100a3	S100 calcium binding protein A3	AF004941	p53 up
2	101052_g_at	S100a3	S100 calcium binding protein A3	AF004941	p53 up
3	102661_at	Egr2	Early growth response 2	M24377	IL-6 up
4	103558_at	Krt1-1	Keratin complex 1, acidic, gene 1	M27734	p53 up
5	94226_at	Tex264	Testis expressed gene 264	AW048306	IL-6 down
6	97497_at	Notch1	Notch gene homolog 1 (Drosophila)	Z11886	p53 up
7	98067_at	Cdkn1a	Cyclin-dependent kinase inhibitor 1A (P21)	U09507	p53 up

Neuronal tissues

(Cluster f)
size 39



	Probeset ID	Gene symbol	Gene title	Accession no.	Regulation by
1	100427_at	Ptpro	Protein tyrosine phosphatase, receptor type, O	U37465	p53 up
2	100994_at	Aatk	Apoptosis-associated tyrosine kinase	AF011908	
3	101851_at	Mox2	Antigen identified by monoclonal antibody MRC OX-2	AF029215	
4	101929_at	6720463E02Rik	RIKEN cDNA 6720463E02 gene	AI836322	IL-6 down
5	102037_at	Mapre2	Microtubule-associated protein, RP/EB family, member 2	AI844269	IL-6 down
6	102342_at	Nsf	N-ethylmaleimide sensitive fusion protein	U10120	
7	102870_at	102870_at	Mus musculus adult male hippocampus cDNA, RIKEN full-length enriched library, cl	AW125272	p53 up
8	102912_at	5430432P15Rik	RIKEN cDNA 5430432P15 gene	AI265115	p53 up
9	103031_g_at	Dnm	Dynamin	L31397	p53 up
10	103223_at	5830406C15Rik	RIKEN cDNA 5830406C15 gene	AW120767	p53 up
11	103501_at	Pura	Purine rich element binding protein A	U02098	p53 up
12	104108_at	Rab6ip1	Rab6 interacting protein 1	AJ245569	p53 up
13	92200_at	Adcyap1	Adenylate cyclase activating polypeptide 1	AB010149	p53 up
14	92228_at	Catna2	Catenin alpha 2	D25282	p53 up
15	92348_at	Thra	Thyroid hormone receptor alpha	AI841022	p53 up
16	93147_f_at	A230070D14Rik	RIKEN cDNA A230070D14 gene	AI839880	p53 up
17	93360_at	Pmm1	Phosphomannomutase 1	AF007267	p53 up
18	93935_at	Nlk	Nemo like kinase	AF036332	p53 up
19	94556_at	Snx10	Sorting nexin 10	AI746846	IL-6 up
20	94986_at	Gng3	Guanine nucleotide binding protein (G protein), gamma 3 subunit	AF069953	
21	95027_at	Usp21	Ubiquitin specific protease 21	AW050342	IL-6 down
22	95092_at	Ppp3ca	Protein phosphatase 3, catalytic subunit, alpha isoform	J05479	p53 up
23	95669_g_at	Stmn2	Stathmin-like 2	AI840972	IL-6 down
24	95673_s_at	Basp1	Brain abundant, membrane attached signal protein 1	AW124113	p53 up
25	95848_at	2900097C17Rik	RIKEN cDNA 2900097C17 gene	C76063	p53 up
26	96165_at	4732477C12Rik	RIKEN cDNA 4732477C12 gene	AW125109	p53 up
27	96299_at	2900097C17Rik	RIKEN cDNA 2900097C17 gene	AI847298	p53 up
28	97260_at	Arpp19-pending	Cyclic AMP phosphoprotein	AW121489	
29	97341_at	DXlmx39e	DNA segment, Chr X, Immunex 39, expressed	AW124082	
30	97535_at	Ywhah	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta po	D87661	p53 down
31	97710_f_at	C530046L02Rik	RIKEN cDNA C530046L02 gene	AI425990	p53 up
32	97983_s_at	Stxbp1	Syntaxin binding protein 1	D45903	p53 down
33	98356_at	98356_at	Mus musculus transcribed sequences	AW125421	IL-6 down
34	98555_at	Ttc3	Tetrapeptide repeat domain 3	AB008516	p53 down
35	98782_at	98782_at	Mus musculus, clone IMAGE:6544937, mRNA	D38613	
36	99045_at	Eno2	Enolase 2, gamma neuronal	AC002397	p53 up
37	99183_at	Ppp3r1	Protein phosphatase 3, regulatory subunit B, alpha isoform (calcineurin B, type I)	AW123013	p53 up
38	99465_at	Mecp2	Methyl CpG binding protein 2	AJ132922	p53 up
39	99570_s_at	Atp2a2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	AF029982	

tissues order:

- 1 testis
- 2 eye
- 3 spinal_cord_upper
- 4 spinal_cord_lower
- 5 cerebellum
- 6 olfactory_bulb
- 7 striatum
- 8 hypothalamus
- 9 hippocampus
- 10 frontal_corte
- 11 cerebral_cortex
- 12 amygdala

13	trigeminal
14	dorsal_root_ganglion
15	skeletal_muscle
16	heart
17	brown_fat
18	stomach
19	bone_marrow
20	bone
21	spleen
22	digits
23	epidermis
24	snout_epidermis
25	tongue
26	thymus
27	lymph_node
28	trachea
29	adipose
30	adrenal_gland
31	lung
32	bladder
33	uterus
34	ovary
35	umbilical_cord
36	placenta
37	large_intestine
38	small_intestine
39	gall_bladder
40	liver
41	kidney
42	mammary_gland
43	salivary_gland
44	thyroid
45	prostate