

Table 1: Kidney gene lists. Pathogenesis-based transcript sets or “PBTs”. The lists have been selected from the datasets available in the file “PBTs_all_affy” downloaded from the url: <https://www.ualberta.ca/medicine/institutes-centres-groups/atagc/research/gene-lists>. Only lists with more than 50 transcripts have been retained. Transcript names have been converted from probeset identifiers into Entrez identifiers. Given that several probesets are associated to the same Entrez ID the final gene lists are usually shorter than transcript lists. Since the file has been downloaded the web page has changed and this file is not available anymore, although new version of the file can be found in the site.

| PBT | Size | PBT Name | Biological Description |
|------------|-------------|---|--|
| QCMAT | 64 | Quantitative constitutive macrophage-associated transcripts | Burden of macrophages |
| ENDAT | 114 | Endothelium-associated transcripts | Microcirculation response to injury |
| BAT | 105 | B-cell associated transcripts | Transcripts with selective expression in human B cells |
| IRITD3 | 313 | Injury- and repair-induced transcripts day 3 | Active injury–repair response: ‘injury-up’ Increased in isografts, peaking day 3 |
| IRITD5 | 221 | Injury- and repair-induced transcripts day 5 | Active injury–repair response: ‘injury-up’ Increased in isografts peaking day 5 |
| KT1 | 574 | Kidney transcripts—set 1 | Active injury–repair response: ‘injury-down’ Parenchymal transcripts |
| KT2 | 63 | Kidney transcripts—set 2 | Active injury–repair response: ‘injury-down’ Solute carrier transcripts |
| KT1.1 | 119 | Kidney transcripts - Set 1.1 | Humanized mouse kidney selective transcripts reduced >90% in day 21 mouse allografts |

Table 2: Cancer Gene Lists. Cancer related genes that were used to generate a comprehensive list (allOnco) that is comprised of the union of all lists. The lists have been selected from the datasets available in the file "allOnco.tsv" downloaded from the url <http://www.bushmanlab.org/links/genelists>. Only lists with more than 50 genes have been retained. Since the file has been downloaded the web page has changed and this file is not available anymore, although new version of the file can be found in the site.

| Set | Size | Species | Description |
|---------------|------|----------|---|
| Atlas | 989 | human | "Genes: hybrid gene found in at least one cancer case, or gene amplification or homozygous deletion found in a significant subset of cases in a given cancer-type." |
| CANgenes | 189 | human | 191 common genes that were mutated at significant frequency in all tumors of human breast and colorectal cancers. |
| CIS (RTCGD) | 587 | multiple | Retroviral insertional mutagenesis in mouse hematopoietic tumors. |
| Miscellaneous | 187 | multiple | From <i>Cold Spring Harbor Retroviruses</i> Chapter on Oncogenes, an early version of the CIS database, a list from Dr. Tony Hunter, and misc. additions from the literature. |
| Sanger | 452 | human | Compilation from literature: "genes that are mutated and causally implicated in cancer development" |
| Vogelstein | 420 | human | Cancer genes related to chromosomal breakpoints |