

**Supplemental Table 1. Sample Information**

| Organ      | Patient Id. | Sex | Cause of Death         | Age (yrs) | PMI (Hrs) | Yield RNA (ug/mg) |
|------------|-------------|-----|------------------------|-----------|-----------|-------------------|
| adrenal    | 61          | M   | Trauma                 | 5.0       | 4         | 0.56              |
| adrenal    | 917         | M   | Trauma                 | 14.7      | 10        | 0.68              |
| adrenal    | 1078        | F   | Trauma                 | 17.1      | 12        | 0.60              |
| adrenal    | 1021        | M   | Ischemic Heart Disease | 19.7      | 14        | 0.80              |
| adrenal    | 1326        | M   | Ischemic Heart Disease | 37.3      | 12        | 0.81              |
| adrenal    | 856         | F   | Asthma                 | 29.9      | 7         | 0.74              |
| adrenal    | 738         | F   | Arrhythmia             | 8.9       | 12        | 0.41              |
| adrenal    | 103         | F   | Trauma                 | 2.3       | 11        | 0.21              |
| adrenal    | 937         | F   | Unknown                | 38.4      | 9         | 0.77              |
| bladder    | 1078        | F   | Trauma                 | 17.1      | 12        | 0.09              |
| bladder    | 101         | F   | Trauma                 | 15.5      | 10        | 0.37              |
| bladder    | 1101        | F   | Trauma                 | 19.2      | 7         | 0.41              |
| bladder    | 1104        | M   | Trauma                 | 35.3      | 12        | 0.21              |
| bladder    | 695         | M   | Trauma                 | 21.5      | 9         | 0.13              |
| bladder    | 856         | F   | Asthma                 | 29.9      | 7         | 0.16              |
| bladder    | 738         | F   | Arrhythmia             | 8.9       | 12        | 0.13              |
| bladder    | 859         | F   | Arrhythmia             | 36.1      | 6         | 0.25              |
| bladder    | 103         | F   | Trauma                 | 2.3       | 11        | 0.23              |
| cerebellum | 1363        | F   | Ischemic Heart Disease | 40.9      | 14        | 0.44              |
| cerebellum | 856         | F   | Asthma                 | 29.9      | 7         | 0.37              |
| cerebellum | 738         | F   | Arrhythmia             | 8.9       | 12        | 0.58              |
| cerebellum | 859         | F   | Arrhythmia             | 36.1      | 6         | 0.38              |
| cerebellum | 1185        | F   | Drowning               | 4.8       | 17        | 0.51              |
| cerebellum | 103         | F   | Trauma                 | 2.3       | 11        | 0.59              |
| cerebrum   | 142         | M   | Trauma                 | 16.3      | 7         | 0.26              |
| cerebrum   | 917         | M   | Trauma                 | 14.7      | 10        | 0.26              |
| cerebrum   | 1101        | F   | Trauma                 | 19.2      | 7         | 0.37              |
| cerebrum   | 1104        | M   | Trauma                 | 35.3      | 12        | 0.40              |
| cerebrum   | 1363        | F   | Ischemic Heart Disease | 40.9      | 14        | 0.34              |
| cerebrum   | 856         | F   | Asthma                 | 29.9      | 7         | 0.43              |
| cerebrum   | 738         | F   | Arrhythmia             | 8.9       | 12        | 0.38              |
| colon      | 101         | F   | Trauma                 | 15.5      | 10        | 0.33              |
| colon      | 61          | M   | Trauma                 | 5.0       | 4         | 0.35              |
| colon      | 64          | M   | Trauma                 | 15.0      | 13        | 0.36              |
| colon      | 103         | F   | Trauma                 | 2.3       | 11        | 0.39              |
| colon      | 290         | M   | Bronchopneumonia       | 36.0      | 4         | 0.29              |
| colon      | 602         | M   | Trauma                 | 27.2      | 15        | 0.12              |
| colon      | 917         | M   | Trauma                 | 14.7      | 10        | 0.26              |
| colon      | 856         | F   | Asthma                 | 29.9      | 7         | 0.17              |

| Organ  | Patient Id. | Sex | Cause of Death         | Age (yrs) | PMI (Hrs) | Yield RNA (ug/mg) |
|--------|-------------|-----|------------------------|-----------|-----------|-------------------|
| heart  | 101         | F   | Trauma                 | 15.5      | 10        | 0.49              |
| heart  | 1078        | F   | Trauma                 | 17.1      | 12        | 0.33              |
| heart  | 1101        | F   | Trauma                 | 19.2      | 7         | 0.21              |
| heart  | 1104        | M   | Trauma                 | 35.3      | 12        | 0.36              |
| heart  | 856         | F   | Asthma                 | 29.9      | 7         | 0.27              |
| heart  | 859         | F   | Arrhythmia             | 36.1      | 6         | 0.28              |
| heart  | 1185        | F   | Drowning               | 4.8       | 17        | 0.25              |
| ileum  | 290         | M   | Bronchopneumonia       | 36.0      | 4         | 0.41              |
| ileum  | 61          | M   | Trauma                 | 5.0       | 4         | 0.40              |
| ileum  | 917         | M   | Trauma                 | 14.7      | 10        | 0.57              |
| ileum  | 1078        | F   | Trauma                 | 17.1      | 12        | 0.47              |
| ileum  | 602         | M   | Trauma                 | 27.2      | 15        | 0.31              |
| ileum  | 695         | M   | Trauma                 | 21.5      | 9         | 0.21              |
| ileum  | 1021        | M   | Ischemic Heart Disease | 19.7      | 14        | 0.48              |
| ileum  | 738         | F   | Arrhythmia             | 8.9       | 12        | 0.08              |
| ileum  | 1028        | M   | Asphyxia               | 39.1      | 14        | 0.46              |
| ileum  | 103         | F   | Trauma                 | 2.3       | 11        | 0.62              |
| kidney | 61          | M   | Trauma                 | 5.0       | 4         | 0.72              |
| kidney | 917         | M   | Trauma                 | 14.7      | 10        | 0.67              |
| kidney | 1078        | F   | Trauma                 | 17.1      | 12        | 0.68              |
| kidney | 1101        | F   | Trauma                 | 19.2      | 7         | 0.47              |
| kidney | 1104        | M   | Trauma                 | 35.3      | 12        | 0.58              |
| kidney | 695         | M   | Trauma                 | 21.5      | 9         | 0.63              |
| kidney | 1363        | F   | Ischemic Heart Disease | 40.9      | 14        | 0.63              |
| kidney | 856         | F   | Asthma                 | 29.9      | 7         | 0.34              |
| kidney | 738         | F   | Arrhythmia             | 8.9       | 12        | 0.40              |
| kidney | 103         | F   | Trauma                 | 2.3       | 11        | 0.69              |
| liver  | 927         | M   | Trauma                 | 17.5      | 12        | 0.59              |
| liver  | 1078        | F   | Trauma                 | 17.1      | 12        | 0.43              |
| liver  | 1101        | F   | Trauma                 | 19.2      | 7         | 1.22              |
| liver  | 1104        | M   | Trauma                 | 35.3      | 12        | 0.99              |
| liver  | 695         | M   | Trauma                 | 21.5      | 9         | 1.26              |
| liver  | 1363        | F   | Ischemic Heart Disease | 40.9      | 14        | 1.11              |
| liver  | 754         | F   | Asthma                 | 11.6      | 12        | 1.04              |
| liver  | 856         | F   | Asthma                 | 29.9      | 7         | 1.02              |
| liver  | 738         | F   | Arrhythmia             | 8.9       | 12        | 0.74              |
| liver  | 1185        | M   | Drowning               | 4.8       | 17        | 1.15              |

| Organ     | Patient Id. | Sex | Cause of Death         | Age (yrs) | PMI (Hrs) | Yield RNA (ug/mg) |
|-----------|-------------|-----|------------------------|-----------|-----------|-------------------|
| lung      | 61          | M   | Trauma                 | 5.0       | 4         | 0.65              |
| lung      | 917         | M   | Trauma                 | 14.7      | 10        | 0.50              |
| lung      | 1078        | F   | Trauma                 | 17.1      | 12        | 0.61              |
| lung      | 1101        | F   | Trauma                 | 19.2      | 7         | 0.47              |
| lung      | 1104        | M   | Trauma                 | 35.3      | 12        | 0.46              |
| lung      | 695         | M   | Trauma                 | 21.5      | 9         | 0.61              |
| lung      | 856         | F   | Asthma                 | 29.9      | 7         | 0.61              |
| lung      | 738         | F   | Arrhythmia             | 8.9       | 12        | 0.31              |
| lung      | 103         | F   | Trauma                 | 2.3       | 11        | 0.21              |
| ovary     | 1078        | F   | Trauma                 | 17.1      | 12        | 1.13              |
| ovary     | 1136        | F   | Ischemic Heart Disease | 34.0      | 19        | 0.75              |
| ovary     | 856         | F   | Asthma                 | 29.9      | 7         | 0.88              |
| ovary     | 738         | F   | Arrhythmia             | 8.9       | 12        | 0.76              |
| ovary     | 120         | F   | Bronchopneumonia       | 0.3       | 8         | 0.69              |
| pancreas  | 61          | M   | Trauma                 | 5.0       | 4         | 1.53              |
| pancreas  | 1101        | F   | Trauma                 | 19.2      | 7         | 1.92              |
| pancreas  | 856         | F   | Asthma                 | 29.9      | 7         | 2.08              |
| pancreas  | 738         | F   | Arrhythmia             | 8.9       | 12        | 2.35              |
| pancreas  | 859         | F   | Arrhythmia             | 36.1      | 6         | 1.73              |
| pancreas  | 103         | F   | Trauma                 | 2.3       | 11        | 3.10              |
| prostate  | 64          | M   | Trauma                 | 15.0      | 13        | 0.49              |
| prostate  | 917         | M   | Trauma                 | 14.7      | 10        | 0.58              |
| prostate  | 1104        | M   | Trauma                 | 35.3      | 12        | 0.48              |
| prostate  | 695         | M   | Trauma                 | 21.5      | 9         | 0.91              |
| prostate  | 1021        | M   | Ischemic Heart Disease | 19.7      | 14        | 0.70              |
| prostate  | 1326        | M   | Ischemic Heart Disease | 37.3      | 12        | 0.92              |
| prostate  | 1055        | M   | Bronchopneumonia       | 0.3       | 12        | 0.75              |
| prostate  | 1028        | M   | Asphyxia               | 39.1      | 14        | 0.71              |
| S. muscle | 61          | M   | Trauma                 | 5.0       | 4         | 0.20              |
| S. muscle | 917         | M   | Trauma                 | 14.7      | 10        | 0.22              |
| S. muscle | 1078        | F   | Trauma                 | 17.1      | 12        | 0.21              |
| S. muscle | 738         | F   | Arrhythmia             | 8.9       | 12        | 0.17              |
| S. muscle | 103         | F   | Trauma                 | 2.3       | 11        | 0.21              |
| S. muscle | 695         | M   | Trauma                 | 21.5      | 9         | 0.20              |
| S. muscle | 1101        | F   | Trauma                 | 19.2      | 7         | 0.13              |
| S. muscle | 1104        | M   | Trauma                 | 35.3      | 12        | 0.27              |
| S. muscle | 856         | F   | Asthma                 | 29.9      | 7         | 0.22              |

| Organ    | Patient Id. | Sex | Cause of Death           | Age (yrs) | PMI (Hrs) | Yield RNA (ug/mg) |
|----------|-------------|-----|--------------------------|-----------|-----------|-------------------|
| spleen   | 61          | M   | Trauma                   | 5.0       | 4         | 1.38              |
| spleen   | 917         | M   | Trauma                   | 14.7      | 10        | 1.09              |
| spleen   | 1078        | F   | Trauma                   | 17.1      | 12        | 1.08              |
| spleen   | 1101        | F   | Trauma                   | 19.2      | 7         | 1.12              |
| spleen   | 1104        | M   | Trauma                   | 35.3      | 12        | 0.37              |
| spleen   | 695         | M   | Trauma                   | 21.5      | 9         | 0.69              |
| spleen   | 856         | F   | Asthma                   | 29.9      | 7         | 0.39              |
| spleen   | 738         | F   | Arrhythmia               | 8.9       | 12        | 0.36              |
| spleen   | 859         | F   | Arrhythmia               | 36.1      | 6         | 0.45              |
| spleen   | 103         | F   | Trauma                   | 2.3       | 11        | 0.31              |
| stomach  | 61          | M   | Trauma                   | 5.0       | 4         | 0.27              |
| stomach  | 917         | M   | Trauma                   | 14.7      | 10        | 0.41              |
| stomach  | 1078        | F   | Trauma                   | 17.1      | 12        | 0.13              |
| stomach  | 1101        | F   | Trauma                   | 19.2      | 7         | 1.24              |
| stomach  | 602         | M   | Trauma                   | 27.2      | 15        | 0.38              |
| stomach  | 1021        | M   | Ischemic Heart Disease   | 19.7      | 14        | 1.19              |
| stomach  | 856         | F   | Asthma                   | 29.9      | 7         | 1.16              |
| stomach  | 738         | F   | Arrhythmia               | 8.9       | 12        | 0.84              |
| stomach  | 1259        | M   | Asphyxia                 | 25.0      | 8         | 0.29              |
| stomach  | 103         | F   | Trauma                   | 2.3       | 11        | 0.84              |
| testicle | 64          | M   | Trauma                   | 15.0      | 13        | 1.17              |
| testicle | 142         | M   | Trauma                   | 16.3      | 7         | 1.03              |
| testicle | 927         | M   | Trauma                   | 17.5      | 12        | 1.11              |
| testicle | 917         | M   | Trauma                   | 14.7      | 10        | 1.18              |
| testicle | 1104        | M   | Trauma                   | 35.3      | 12        | 0.93              |
| testicle | 1021        | M   | Ischemic Heart Disease   | 19.7      | 14        | 0.78              |
| testicle | 1028        | M   | Asphyxia                 | 39.1      | 14        | 0.70              |
| ureter   | 61          | M   | Trauma                   | 5.0       | 4         | 0.28              |
| ureter   | 101         | F   | Trauma                   | 15.5      | 10        | 0.44              |
| ureter   | 1101        | F   | Trauma                   | 19.2      | 7         | 0.32              |
| ureter   | 433         | M   | Trauma                   | 19.8      | 31        | 0.41              |
| ureter   | 858         | M   | Acute Heart Failure      | 36.1      | 17        | 0.43              |
| ureter   | 1021        | M   | Ischemic Heart Disease   | 19.7      | 14        | 0.34              |
| ureter   | 1026        | M   | Congenital Heart Disease | 28.4      | 6         | 0.32              |
| ureter   | 103         | F   | Trauma                   | 2.3       | 11        | 0.33              |
| uterus   | 1078        | F   | Trauma                   | 17.1      | 12        | 1.08              |
| uterus   | 1101        | F   | Trauma                   | 19.2      | 7         | 0.53              |
| uterus   | 1363        | F   | Ischemic Heart Disease   | 40.9      | 14        | 0.40              |
| uterus   | 1136        | F   | Ischemic Heart Disease   | 34.0      | 19        | 0.97              |
| uterus   | 856         | F   | Asthma                   | 29.9      | 7         | 0.31              |
| uterus   | 738         | F   | Arrhythmia               | 8.9       | 12        | 0.54              |
| uterus   | 859         | F   | Arrhythmia               | 36.1      | 6         | 0.32              |
| uterus   | 1284        | F   | Drowning                 | 3.3       | 11        | 0.41              |
| uterus   | 103         | F   | Trauma                   | 2.3       | 11        | 1.06              |
| uterus   | 120         | F   | Bronchopneumonia         | 0.3       | 8         | 0.38              |