**Table S1 The information of raw data.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SRA accession | Number of samples | Number of tissues | Number of reads(million) | Name of tissues | Reference |
| SRP067181 | 10 | 1 | 877 | liver | Martinez-Montes et al. 2016 |
| SRP018856 | 3 | 3 | 263 | Backfat, greater omentum, mesenterium | Wang et al. 2013 |
| SRP008516 | 2 | 1 | 50 | gonad | Esteve-Codina et al. 2011 |
| SRP032451 | 10 | 1 | 839 | hypothalamus | Pérez-Montarelo et al. 2014 |
| SRP026594 | 6 | 2 | 34 | Backfat, musculus longissimus dorsi | Jiang et al. 2013 |
| SRP018288 | 4 | 4 | 190 | heart, liver, lung, kidney | Li et al. 2013 |
| SRP018102 | 8 | 1 | 247 | endometrium | Samborski et al. 2013 |
| SRP058401 | 6 | 1 | 366 | ovary | Zhang et al. 2014 |
| SRP014902 | 3 | 3 | 59 | placenta, testis, Pool of 11 tissues | Endale Ahanda et al. 2012 |
| ERP013761 | 31 | 1 | 632 | blood | Liu et al. 2016 |
| SRP062860 | 12 | 1 | 797 | uterine | Rahman et al. 2016 |
| SRP065485 | 8 | 1 | 91 | lymph nodes | Miller et al. 2016 |
| SRP027378 | 8 | 1 | 272 | endometrium | Samborski et al. 2013 |
| ERP002055 | 20 | 10 | 223 | heart, spleen, liver, kidney, lung, musculus longissimus dorsi, occipital cortex, hypothalamus, frontal cortex, cerebellum | Farajzadeh et al. 2013 |

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