Table S3. Genes nearest to integration sites in secondary CFU-S12 for Experiment I and II.

| Mouse ID | Gene          | Spleen or Bone Marrow | Position from TSS | Orientation | Mouse Chromosome | Human Chromosome | Accession Number | MGI     | RTCGD Hits | CIS |
|----------|---------------|------------------------|-------------------|-------------|------------------|------------------|------------------|---------|------------|-----|
| A1       | 1700017N19Rik | downstream (112853)    | Same              | 10          | 12q21.33         | NM_001081246     | MGI:1913855      | 0       |            |     |
|          | Anln          | upstream (1239)        | Same              | 9           | 7p15-p14         | NM_028390        | MGI:1920174      | 0       |            | *   |
|          | Elmo1         | upstream (2653)        | Same              | 13          | 7p14.1           | NM_080288        | MGI:2153044      | 2       |            |     |
|          | Ev1           | Spleen/BM upstream (119137) | Inverse       | 3           | 3q24-q28        | NM_007963        | MGI:95457        | 25      |            | *   |
|          | Ldhal6b       | downstream (89863)     | Inverse           | 17          | 15q22.2          | NM_175349        | MGI:2146830      | 0       |            |     |
|          | Mcart1        | Spleen upstream (92838) | Inverse           | 4           | 9p13.3-p12      | NM_001009949     | MGI:2684984      | 0       |            |     |
|          | Sip11         | upstream (6060)        | Same              | 4           | 1p36.13          | NM_029100        | MGI:2151208      | 0       |            |     |
|          | Tacc1         | Spleen upstream (34459) | Inverse       | 8           | 8p11             | NM_177089        | MGI:2443510      | 0       |            |     |
|          | Tomm20        | downstream (117963)    | Inverse           | 8           | 1q42             | NM_024214        | MGI:1915202      | 0       |            |     |
|          | Prdm16        | upstream (105492)      | Same              | 4           | 1p36.23-p33     | NM_027504        | MGI:1917923      | 9       |            | *   |
|          | Fusip1        | upstream (36176)       | Inverse           | 4           | 1p36.11          | NM_010178        | MGI:1333805      | 1       |            |     |
| A4       | BC057627/Zc3h4| Spleen/BM intron 1 (858) | Same       | 7           | 1q13.32          | NM_198631        | MGI:2682314      | 1       |            |     |
|          | Ev1           | Spleen/BM upstream (109351) | Inverse       | 3           | 3q24-q28        | NM_007963        | MGI:95457        | 25      |            |     |
|          | Snx30         | intron 1 (10875)       | Inverse           | 4           | 9q32             | NM_172468        | MGI:2443882      | 1       |            |     |
| C2       |              |                        |                   |             |                  |                  |                  |         |            |     |
|          | 1700027J05Rik | Spleen downstream (16930) | Same       | 15          | 12q24.21         | NM_027081        | MGI:1916690      | 0       |            |     |
|          | Med13l        | Spleen/BM upstream (45890) | Inverse       | 5           | 12q24.21         | NM_172424        | MGI:2670178      | 1       |            |     |
|          | Nfatc2        | Spleen/BM intron 3 (50953) | Same       | 2           | 20q13.2-q13.3   | NM_010899        | MGI:102463       | 3       |            |     |
|          | Sp1           | Spleen upstream (882)  | Same              | 15          | 12q13.1          | NM_013672        | MGI:98372        | 1       |            |     |
| C4       | 5430420C16Rik | Spleen/BM upstream (39919) | Same       | 16          | 3q28             | NM_175165        | MGI:1918588      | 1       |            |     |
|          | Gse1          | Spleen/BM upstream (118913) | Same       | 8           | 16q24.1          | NM_198671        | MGI:1098275      | 6       |            |     |
|          | Gyk           | Spleen/BM upstream (0)  | Inverse           | X           | Xp21.3           | NM_008194        | MGI:106594       | 0       |            |     |
| ^        | No nearby gene |                        |                   |             |                  |                  |                  |         |            |     |
| Mouse ID | Gene   | Spleen or Bone Marrow | Position from TSS | Orientation | Mouse Chromosome | Human Chromosome | Accession Number | MGI | RTCGD hits | CIS |
|----------|--------|-----------------------|-------------------|-------------|-----------------|-----------------|-----------------|-----|------------|-----|
| A11      | Naglu  | upstream (10538)      | Same              | 11          | 17q21           | NM_013792       | MGI:135164      | 1   |            | 0   |
|          |        |                       |                   |             |                 |                 |                 |     |            |     |
| A12      | A430078G23Rik | Spleen/BM downstream (1530) | Inverse           | 8           | 10p15           | NM_008091       | MGI:95663       | 51  |            | 1   |
|          |        |                       |                   |             |                 |                 |                 |     |            |     |
| A13      | Gata3  | Spleen intron 1 (1262) | Same              | 2           | 10p15           | NM_008091       | MGI:95663       | 0   |            | 0   |
|          | Prkcbp1| BM intron 2 (25132)   | Same              | 2           | 20q13.12        | NM_027230       | MGI:191802      | 5   |            | 3   |
|          |        |                       |                   |             |                 |                 |                 |     |            |     |
| A14      | AB041803 | Spleen/BM downstream (92581) | Same            | 6           | 3p21            | NM_009912       | MGI:104618      | 4   |            | 4   |
|          |        |                       |                   |             |                 |                 |                 |     |            |     |
| A15      | Ccr1   | Spleen downstream (11830) | Same            | 9           | 3p21            | NM_009912       | MGI:104618      | 4   |            | 4   |
|          |        |                       |                   |             |                 |                 |                 |     |            |     |
| A16      | Evl1   | BM upstream (28917)   | Inverse           | 2           | 19p13.11        | NM_009188       | MGI:192716      | 3   |            | 3   |
|          |        |                       |                   |             |                 |                 |                 |     |            |     |
| A17      | Nek6   | BM upstream (30927)   | Inverse           | 2           | 19p13.11        | NM_009188       | MGI:192716      | 3   |            | 3   |
|          |        |                       |                   |             |                 |                 |                 |     |            |     |
| A18      | Evl1   | Spleen intron 1 (1262) | Same              | 3           | 3q24-q28        | NM_007963       | MGI:95457       | 25  |            | 25  |
|          |        |                       |                   |             |                 |                 |                 |     |            |     |
| A19      | Sin3b  | Spleen downstream (55674) | Same            | 1           | 1q25.2          | NM_023141       | MGI:135365      | 2   |            | 2   |
|          |        |                       |                   |             |                 |                 |                 |     |            |     |
| A20      | Tpcn1  | Spleen exon 4 (2668)  | Same              | 19          | 11q13.2         | NM_144532       | MGI:192091      | 0   |            | 0   |
|          |        |                       |                   |             |                 |                 |                 |     |            |     |
| Gene   | Tissue       | Position  | Orientation | Chromosome | Genomic Location | Accession | MGI ID | Value |
|--------|--------------|-----------|-------------|------------|------------------|-----------|--------|-------|
| Rnaset2 | Spleen/BM    | intron 2 (3476) | Same       | 17         | 6q27             | NM_029204 | 5      | 1     |
| BC024479 | Spleen/BM    | upstream (242) | Inverse    | 9          | 11q24.2          | NM_146222 | 9      | 0     |
| Rbm38  | Spleen/BM    | downstream (26691) | Inverse    | 2          | 20q13.32          | NM_019547 | 4      | 1     |