

Supplemental Table S23. Summary of gene clusters related to growth-regulated function.

| ID in TC allele | ID in BSB allele | Gene number in same gene clusters of TC | Gene number in same gene clusters of BSB | Gene name |
|--------------------|---------------------|--|---|---|
| Ery20143 | Mam27029 | 6 | 5 | fibroblast growth factor receptor 4 |
| Ery30319 | Mam17225 | 6 | 5 | fibroblast growth factor receptor 2 |
| Ery26154 | Mam21884 | 5 | 6 | pyruvate dehydrogenase kinase isoform 1 |
| Ery27989 | Mam25638 | 0 | 1 | ubiquitin thioesterase |
| Ery10020 | Mam13969 | 5 | 4 | peroxisome proliferator-activated receptor gamma |
| Ery15365 | Mam27939 | 6 | 7 | SLIT-ROBO Rho GTPase activating protein |
| Ery02526 | Mam29454 | 2 | 3 | Bruton agammaglobulinemia tyrosine kinase |
| Ery06963 | Mam23118 | 7 | 9 | tyrosine-protein phosphatase non-receptor type 11 |
| Ery19527 | Mam26357 | 15 | 19 | plexin B |
| Ery29805 | Mam10505 | 4 | 5 | roundabout, axon guidance receptor 2 |
| Ery03693 | Mam28437 | 4 | 5 | roundabout, axon guidance receptor 1 |
| Ery12531 | Mam11241 | 4 | 5 | neuropilin 1 |
| Ery08895 | Mam10635 | 1 | 2 | semaphorin 7 |
| Ery24273 | Mam20630 | 8 | 9 | integrin beta 3 |
| Ery25916 | Mam06595 | 3 | 4 | phosphatidylinositol phospholipase C, gamma-2 |
| Ery22245 | Mam07740 | 8 | 9 | integrin beta 1 |
| Ery03385 | Mam01279 | 19 | 23 | Eph receptor A2 |
| Ery25770 | Mam20143 | 2 | 3 | inhibitor of nuclear factor kappa-B kinase subunit alpha |
| Ery03980 | Mam00425 | 4 | 2 | mitogen-activated protein kinase 8/9/10 (c-Jun N-terminal kinase) |
| Ery18665 | Mam15815 | 1 | 2 | TAK1-binding protein 1 |
| Ery04441 | Mam09018 | 5 | 4 | Notch 1 |
| Ery18297 | Mam30442 | 1 | 2 | cathepsin K |
| Ery13053 | Mam17234 | 15 | 11 | von Willebrand factor |
| Ery26459 | Mam14439 | 4 | 1 | toll-like receptor 4 |
| Ery17497 | Mam22078 | 2 | 1 | serine/threonine-protein phosphatase 5 |
| Ery07309 | Mam30746 | 7 | 4 | serine/threonine-protein phosphatase 2A regulatory subunit B' |
| Ery09318 | Mam11133 | 3 | 4 | serine/threonine-protein phosphatase 2A catalytic subunit |
| Ery29380 | Mam05287 | 7 | 8 | ribosomal protein S6 kinase alpha-4 |

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| Ery27072 | Mam04501 | 6 | 5 | retinoid X receptor gamma |
| Ery00671 | Mam22682 | 6 | 5 | retinoid X receptor beta |
| Ery29695 | Mam08077 | 3 | 2 | reelin |
| Ery03835 | Mam07525 | 2 | 1 | Ras-related protein Rap-1A |
| Ery10446 | Mam02643 | 1 | 3 | platelet-derived growth factor receptor beta |
| Ery09951 | Mam26844 | 3 | 2 | mitogen-activated protein kinase-activated protein kinase 2 |
| Ery21107 | Mam19990 | 5 | 6 | mitogen-activated protein kinase kinase kinase kinase 4 |
| Ery29329 | Mam28289 | 3 | 4 | mitogen-activated protein kinase kinase kinase 3 |
| Ery06334 | Mam18975 | 3 | 4 | mitogen-activated protein kinase kinase kinase 2 |
| Ery00501 | Mam28708 | 2 | 1 | mitogen-activated protein kinase kinase kinase 13 |
| Ery24108 | Mam29061 | 11 | 18 | low density lipoprotein receptor-related protein 5/6 |
| Ery00174 | Mam01443 | 2 | 3 | laminin, gamma 1 |
| Ery23010 | Mam01887 | 4 | 6 | laminin, alpha 3/5 |
| Ery21517 | Mam00854 | 6 | 7 | klotho |
| Ery15106 | Mam04004 | 1 | 3 | interleukin 4 receptor |
| Ery20290 | Mam16991 | 1 | 2 | integrin alpha 9 |
| Ery02183 | Mam15868 | 1 | 2 | integrin alpha 4 |
| Ery03466 | Mam22833 | 6 | 7 | integrin alpha 2 |
| Ery14812 | Mam10024 | 6 | 7 | integrin alpha 1 |
| Ery17669 | Mam01750 | 6 | 7 | insulin receptor substrate 1 |
| Ery14240 | Mam01799 | 4 | 6 | inositol 1,4,5-triphosphate receptor type 3 |
| Ery03851 | Mam15799 | 4 | 6 | inositol 1,4,5-triphosphate receptor type 1 |
| Ery15992 | Mam14154 | 1 | 2 | heparin-binding EGF-like growth factor |
| Ery26135 | Mam13211 | 14 | 8 | heat shock 70kDa protein 1/2/6/8 |
| Ery16310 | Mam03943 | 3 | 4 | FMS-like tyrosine kinase 4 |
| Ery21167 | Mam11710 | 3 | 4 | FMS-like tyrosine kinase 1 |
| Ery25083 | Mam13112 | 2 | 1 | C-C motif chemokine 25 |
| Ery29983 | Mam23670 | 14 | 13 | adenylate cyclase 7 |
| Ery27058 | Mam22607 | 14 | 13 | adenylate cyclase 6 |
