All genes Kidney (female, cluster 7) Lung (female, cluster 6) Marrow (female, cluster 11) Spleen (male, cluster 18) Kidney (male, cluster 11) Lung (male, cluster 12) Trachea (male, cluster 14) Spleen (female, cluster 13) Category Limb Muscle (female, cluster 13) Mammary Gland (female, cluster 17) Spleen (female, cluster 17) Trachea (male, cluster 23) Mammary Gland (female, cluster 19) Limb Muscle (female, cluster 15) Spleen (male, cluster 13) Trachea (male, cluster 26) Macrophage Kidney (female, cluster 7) Macrophage Kidney (male, cluster 11) Macrophage Limb Muscle (female, cluster 13) Macrophage Limb Muscle (female, cluster 15) 5000 4000 -4000 4000 4000 3000 3000 3000 3000 2000 2000 2000 2000 1000 1000 1000 1000 0 0 Macrophage Lung (female, cluster 6) Macrophage Lung (male, cluster 12) Macrophage Mammary Gland (female, cluster 17) Macrophage Mammary Gland (female, cluster 19) 5000 -5000 6000 3000 4000 4000 4000 2000 3000 3000 2000 2000 Number of genes per expression bin 2000 1000 1000 0 Macrophage Marrow (female, cluster 11) Macrophage Spleen (female, cluster 13) Macrophage Spleen (female, cluster 17) Macrophage Spleen (male, cluster 13) 5000 3000 3000 4000 2000 2000 -3000 2000 2000 1000 1000 1000 1000 0 Macrophage Spleen (male, cluster 18) Macrophage Trachea (male, cluster 14) Macrophage Trachea (male, cluster 23) Macrophage Trachea (male, cluster 26) 5000 6000 6000 -6000 4000 4000 3000 4000 4000 2000 2000 2000 2000 1000 Category