

a Disease and Function enrichment: MC38

| Category | p-value (range) | Number of genes |
|--|-------------------|-----------------|
| Cancer | 2.86E-05-4.64E-02 | 23 |
| Dermatological Diseases and Conditions | 2.86E-05-4.64E-02 | 20 |
| Hematological Disease | 2.86E-05-4.26E-02 | 14 |
| Immunological Disease | 2.86E-05-3.47E-02 | 13 |
| Organismal Injury and Abnormalities | 2.86E-05-4.73E-02 | 23 |

Disease and Function enrichment: Vehicle

| Category | p-value (range) | Number of genes |
|-------------------------------------|-------------------|-----------------|
| Developmental Disorder | 2.29E-10-5.79E-03 | 17 |
| Hereditary Disorder | 2.29E-10-6.32E-03 | 22 |
| Organismal Injury and Abnormalities | 2.29E-10-8.68E-03 | 67 |
| Respiratory Disease | 2.29E-10-8.68E-03 | 41 |
| Cellular Function and Maintenance | 6.04E-09-7.57E-03 | 12 |

b Cancer-related genes