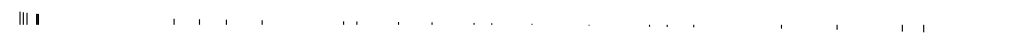




















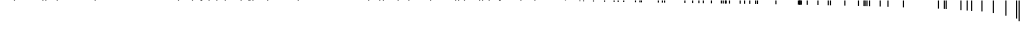

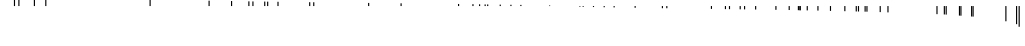


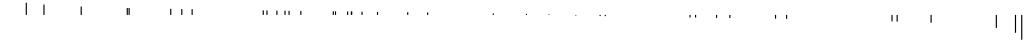


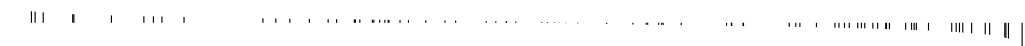












| Pathway | Gene ranks | NES | pval | padj |
|--|---|-------|---------|---------|
| WIKIPATHWAYS_MM_INFLAMMATORY_RESPONSE_PATHWAY-WP453 |  | 1.66 | 1.2e-02 | 6.0e-01 |
| WIKIPATHWAYS_MM_NOTCH_SIGNALING_PATHWAY-WP268 |  | 1.48 | 2.6e-02 | 6.0e-01 |
| WIKIPATHWAYS_MM_MITOCHONDRIAL_LC-FATTY_ACID_BETA-OXIDATION-WP368 |  | 1.22 | 2.0e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_ONE_CARBON_METABOLISM-WP241 |  | 1.27 | 1.6e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_FATTY_ACID_BIOSYNTHESIS-WP357 |  | 1.25 | 1.7e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_TYPE_II_INTERFERON_SIGNALING_IFNG-WP619 |  | 1.32 | 1.2e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_G13_SIGNALING_PATHWAY-WP524 |  | 1.33 | 9.2e-02 | 6.0e-01 |
| WIKIPATHWAYS_MM_SIDS_SUSCEPTIBILITY_PATHWAYS-WP706 |  | 1.45 | 3.1e-02 | 6.0e-01 |
| WIKIPATHWAYS_MM_FATTY_ACID_BETA_OXIDATION-WP143 |  | 1.28 | 1.1e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_VITAMIN_A_AND_CAROTENOID_METABOLISM-WP716 |  | 1.25 | 1.3e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_ENDOCHONDRAL_OSSIFICATION-WP474 |  | 1.27 | 1.3e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_NEURAL_CREST_DIFFERENTIATION-WP2064 |  | 1.30 | 7.4e-02 | 6.0e-01 |
| WIKIPATHWAYS_MM_CALCIUM_REGULATION_IN_THE_CARDIAC_CELL-WP536 |  | -1.16 | 1.9e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_MYOMETRIAL_RELAXATION_AND_CONTRACTION_PATHWAYS-WP289 |  | -1.18 | 1.7e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_MAPK_SIGNALING_PATHWAY-WP382 |  | -1.24 | 1.1e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_TCR_SIGNALING_PATHWAY-WP69 |  | -1.19 | 2.0e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_METAPATHWAY_BIOTRANSFORMATION-WP702 |  | -1.22 | 1.4e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_MICRORNAS_IN_CARDIOMYOCYTE_HYPERTROPHY-WP1544 |  | -1.20 | 1.8e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_ANDROGEN_RECEPTOR_SIGNALING_PATHWAY-WP138 |  | -1.20 | 1.8e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_INTEGRATED_BREAST_CANCER_PATHWAY-WP1984 |  | -1.30 | 7.0e-02 | 6.0e-01 |
| WIKIPATHWAYS_MM_CELL_CYCLE-WP179 |  | -1.25 | 1.1e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_DNA_DAMAGE_RESPONSE_ONLY_ATM_DEPENDENT-WP710 |  | -1.22 | 1.9e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_G1_TO_S_CELL_CYCLE_CONTROL-WP45 |  | -1.24 | 1.6e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_APOPTOSIS-WP254 |  | -1.30 | 9.5e-02 | 6.0e-01 |
| WIKIPATHWAYS_MM_LEPTIN_SIGNALING_PATHWAY-WP2034 |  | -1.31 | 1.2e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_GPCRS_OTHER-WP117 |  | -1.27 | 1.6e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_HEART_DEVELOPMENT-WP1591 |  | -1.24 | 1.8e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_INTEGRATED_CANCER_PATHWAY-WP1971 |  | -1.25 | 1.7e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_WNT_SIGNALING_PATHWAY_AND_PLURIPOTENCY-WP399 |  | -1.50 | 8.3e-03 | 6.0e-01 |
| WIKIPATHWAYS_MM_DNA_DAMAGE_RESPONSE-WP707 |  | -1.42 | 5.7e-02 | 6.0e-01 |
| WIKIPATHWAYS_MM_TOR_SIGNALING-WP1471 |  | -1.27 | 1.5e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_WNT_SIGNALING_PATHWAY-WP428 |  | -1.44 | 4.8e-02 | 6.0e-01 |
| WIKIPATHWAYS_MM_FLUOROPYRIMIDINE_ACTIVITY-WP1601 |  | -1.28 | 1.7e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_EUKARYOTIC_TRANSCRIPTION_INITIATION-WP405 |  | -1.45 | 5.4e-02 | 6.0e-01 |
| WIKIPATHWAYS_MM_ERBB_SIGNALING_PATHWAY-WP673 |  | -1.52 | 3.2e-02 | 6.0e-01 |
| WIKIPATHWAYS_MM_ANGIOGENESIS-WP1539 |  | -1.36 | 1.1e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_HYPOTHETICAL_NETWORK_FOR_DRUG_ADDICTION-WP666 |  | -1.41 | 9.2e-02 | 6.0e-01 |
| WIKIPATHWAYS_MM_EICOSANOID_SYNTHESIS-WP167 |  | -1.31 | 1.5e-01 | 6.0e-01 |
| WIKIPATHWAYS_MM_EPO_RECEPTOR_SIGNALING-WP581 |  | -1.50 | 6.4e-02 | 6.0e-01 |
| WIKIPATHWAYS_MM_SIGNALING_OF_HEPATOCYTE_GROWTH_FACTOR_RECEPTOR-WP313 |  | -1.59 | 1.9e-02 | 6.0e-01 |

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