Table S4. Summary analysis for Hallmark gene sets in GEO database

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| --- | --- | --- |
| GSE40595 | Size | *P* value |
| HALLMARK\_MYC\_TARGETS\_V2 | 56 | <0.0001 |
| HALLMARK\_PI3K\_AKT\_MTOR\_SIGNALING | 104 | <0.0001 |
| HALLMARK\_DNA\_REPAIR | 143 | 0.0020 |
| HALLMARK\_MYC\_TARGETS\_V1 | 189 | 0.0021 |
| HALLMARK\_MTORC1\_SIGNALING | 193 | 0.0244 |
| HALLMARK\_OXIDATIVE\_PHOSPHORYLATION | 181 | 0.0291 |
| GSE12470 | Size | *P* value |
| HALLMARK\_GLYCOLYSIS | 193 | 0.0018 |
| HALLMARK\_E2F\_TARGETS | 188 | 0.0020 |
| HALLMARK\_G2M\_CHECKPOINT | 188 | 0.0114 |
| HALLMARK\_DNA\_REPAIR | 140 | 0.0277 |
| GSE10971 | Size | *P* value |
| HALLMARK\_E2F\_TARGETS | 193 | <0.0001 |
| HALLMARK\_G2M\_CHECKPOINT | 189 | 0.0022 |
| HALLMARK\_MYC\_TARGETS\_V1 | 189 | 0.0066 |
| HALLMARK\_GLYCOLYSIS | 195 | 0.0068 |
| HALLMARK\_MYC\_TARGETS\_V2 | 56 | 0.0106 |
| HALLMARK\_MTORC1\_SIGNALING | 193 | 0.0179 |
| HALLMARK\_OXIDATIVE\_PHOSPHORYLATION | 181 | 0.0308 |
| HALLMARK\_DNA\_REPAIR | 143 | 0.0313 |
| HALLMARK\_PI3K\_AKT\_MTOR\_SIGNALING | 104 | 0.0396 |
| GSE27651 | Size | *P* value |
| HALLMARK\_G2M\_CHECKPOINT | 189 | 0.0150 |
| HALLMARK\_E2F\_TARGETS | 193 | 0.0452 |
| GSE38666 | Size | *P* value |
| HALLMARK\_G2M\_CHECKPOINT | 189 | <0.0001 |
| HALLMARK\_E2F\_TARGETS | 193 | 0.0209 |
| HALLMARK\_DNA\_REPAIR | 143 | 0.0213 |