|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **UMCU cohort** |  |  |  |  |
| **MSigDB collection** | **Gene set** | **ES** | ***P*-value** | **FDR** |
| C1 – positional gene sets | chr9q34 | 0.57 | <0.001 | 0.038 |
| C3 – motif gene sets  *Transcription factor targets* | GCGNNANTTCC\_UNKNOWN | 0.37 | 0.002 | 0.229 |
|  | GTCNYYATGR\_UNKNOWN | 0.35 | <0.001 | 0.239 |
|  |  |  |  |  |
| **TCGA cohort** |  |  |  |  |
| **MSigDB collection** | **Gene set** | **ES** | ***P*-value** | **FDR** |
| C1 – positional gene sets | chr3p24 | -0.69 | <0.001 | 0.070 |
|  | chr3q22 | -0.68 | 0.006 | 0.092 |
|  | chr3q29 | -0.65 | 0.006 | 0.113 |
|  | chr3q23 | -0.73 | 0.004 | 0.118 |
|  | chr3q27 | -0.63 | 0.006 | 0.127 |
|  | chr3p25 | -0.54 | 0.006 | 0.134 |
|  | chr3q26 | -0.53 | 0.004 | 0.182 |
|  | chr3q28 | -0.66 | 0.016 | 0.184 |
|  | chr19p12 | -0.65 | 0.018 | 0.217 |
| C3 – motif gene sets  *Transcription factor targets* | V$PEA3\_Q6 | 0.46 | 0.004 | 0.141 |
| C6 – oncogenic signatures | BMI1\_DN.V1\_UP | 0.48 | 0.004 | 0.185 |