**Table 1 Base-resolution or high-resolution datasets of m6A sites**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Dataset | Technique | Cell line | GEO | Ref. |
| S1 | miCLIP | MOLM13 | GSE98623 | 1 |
| S2 | HEK293 | GSE63753 | 2 |
| S3 | HepG2 | GSE73405 | 3 |
| S4 | HEK293T | GSE122948 | 4 |
| S5 | HepG2 | GSE121942 | 5 |
| S6 | HCT116 | GSE128699 | 6 |
| S7 | m6A-CLIP | HeLa | GSE86336 | 7 |
| S8 | CD8T | GSE71154 | 8 |
| S9 | A549 |
| S10 | MAZTER-seq | HEK293T | GSE122961 | 9 |
| S11 | ESC |
| S12 | m6A-REF-seq | HEK293 | GSE125240 | 10 |
| S13 | brain |
| S14 | kidney |
| S15 | liver |
| S16 | PA-m6A-seq | HeLa | GSE54921 | 11 |
| S17 | m6A-seq (improved protocol) | A549 | GSE54365 | 12 |

**Table2 METTL3 knockdown samples**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | GSE | Cell line | Treatment | Columns | Ref. |
| 1 | GSE46705 | HeLa | Control | 8 | 13-15 |
| Mettl3 knockdown | 9 |
| 2 | GSE55572 | HEK293T | Control | 14 | 12 |
| Mettl3 knockdown | 15 |
| 3 | GSE55572 | A549 | Control | 17 |
| Mettl3 knockdown | 18 |
| 4 | GSE94808 | GSC | Control | 29 | 16 |
| Mettl3 knockdown | 30 |
| 5 | GSE94613 | MOLM13 | Control | 36 | 17 |
| Mettl3 knockdown | 37 |
| 6 | GSE110320 | HepG2 | Control | 57 | 5 |
| Mettl3 knockdown | 58 |
| 7 | GSE132306 | EndoC-bH1 | Control | 83 | 18 |
| Mettl3 knockdown | 84 |
| 8 | GSE93911 | HEC-1-A | Control | 97 | 19 |
| Mettl3 knockdown | 98 |

**Table3 METTL14 knockdown samples**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | GSE | Cell line | Treatment | Columns | Ref. |
| 1 | GSE46705 | HeLa | Control | 8 | 13-15 |
| Mettl14 knockdown | 10 |
| 2 | GSE55572 | A549 | Control | 17 | 12 |
| Mettl14 knockdown | 19 |
| 3 | GSE94808 | GSC | Control | 29 | 16 |
| Mettl14 knockdown | 31 |
| 4 | GSE90642 | HepG2 | Control | 48 | 20 |
| Mettl14 knockdown | 49 |
| 5 | GSE110320 | HepG2 | Control | 57 | 5 |
| Mettl14 knockdown | 59 |
| 6 | GSE132306 | EndoC-bH1 | Control | 83 | 18 |
| Mettl14 knockdown | 85 |

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