

A **WGBS CpG Methylation** *Methylated / Unmethylated*

| | | | | | | |
|------------------------|---------------------|-----|-----|-----|-----|-----------------|
| OT/CTOT-derived | <i>Reference</i> | ACG | CCG | GCG | TCG | NCGN Allowed |
| | <i>Methylated</i> | ACG | TCG | GCG | TCG | |
| | <i>Unmethylated</i> | ATG | TTG | GTG | TTG | |
| OB/CTOB-derived | <i>Reference</i> | ACG | CCG | GCG | TCG | NCGN Allowed |
| | <i>Methylated</i> | ACG | CCG | ACG | TCG | |
| | <i>Unmethylated</i> | ACA | CCA | ACA | TCA | |

B **NOMe-seq CpG Methylation** *Methylated / Unmethylated*

| | | | | | | |
|------------------------|---------------------|-----|-------|-------|-----|-------------|
| OT/CTOT-derived | <i>Reference</i> | ACG | CCG | GCG | TCG | HCG Allowed |
| | <i>Methylated</i> | ACG | TCG | | TCG | |
| | <i>Unmethylated</i> | ATG | TTG | | TTG | |
| OB/CTOB-derived | <i>Reference</i> | CGA | CGC | CGG | CGT | CGH Allowed |
| | <i>Methylated</i> | CGA | | CGA | CGT | |
| | <i>Unmethylated</i> | CAA | | CAA | CAT | |

C **NOMe-seq GpC Methylation** *Methylated / Unmethylated*

| | | | | | | |
|------------------------|------------------|-----|-------|-------|-----|-------------|
| OT/CTOT-derived | <i>Reference</i> | GCA | GCC | GCG | GCT | GCH Allowed |
| | <i>Open</i> | GCA | GCT | | GCT | |
| | <i>Shut</i> | GTA | GTT | | GTT | |
| OB/CTOB-derived | <i>Reference</i> | AGC | CGC | GGC | TGC | HGC Allowed |
| | <i>Open</i> | AGC | | AGC | TGC | |
| | <i>Shut</i> | AAC | | AAC | TAC | |