**Table 1.** List of top GFP-chromophore sequences revealed by NGS.

|  |  |  |  |
| --- | --- | --- | --- |
| **Library** | **NO.** | **Sequence** | **Reads** |
| 2-NNK-GFP | 1 | TY | 10,976 |
| 2 | SY | 10,839 |
| 4 | LY | 10,192 |
| 5 | VY | 7,211 |
| 6 | AY | 6,680 |
| 7 | AW | 4,571 |
| 8 | MY | 3,566 |
| 9 | GY | 3,152 |
| 10 | SS | 2,716 |
| 3-NNK-GFP | 1 | TYG | 27,227 |
| 2 | GYG | 21,966 |
| 4 | CYG | 13,942 |
| 5 | FLL | 13,304 |
| 6 | FRM | 8,937 |
| 7 | NTM | 8,798 |
| 8 | ILR | 8,533 |
| 9 | LYG | 8,431 |
| 10 | VYG | 8,218 |