Supplementary Table S4. 3’ junction sequences of inserted EGFP-3U-r4 in 293T cell (Supp. for Fig. 3E.)

| Type     | EGFP                         | Vector                        | Non-specific | Hm 28S rDNA                      |
|----------|------------------------------|-------------------------------|--------------|----------------------------------|
| Accurate | 5’∙∙∙AATCCGGAAAGCGAGTG       |                               |              | 3’ TAGCCAAATGCCTCGTCATCTAA∙∙∙      |
|          | GTGACTCGCCTCAAG              |                               |              |                                  |
| i        | 5’∙∙∙AATCCGGAAAGCGAGTG       | GGATCCACTAGTTCTA              | (-17)        | ATCTAATTAGTGACGCCTCATGAAT∙∙∙      |
|          | GTGACTCGCCTCAAG              | GAGCGGCCGC (26)              |              |                                  |
| ii       | 5’∙∙∙AATCCGGAAAGCGAGTG       | AGCCAAGGGA                   | (-26)        | TGACGCGCATGAATGGATGAACG∙∙∙        |
|          | GTGACTCGCCTCAAG              | ACGGGCT (17)                 |              |                                  |
| iii      | 5’∙∙∙GGTGTTGGAGGTTTTTTTT    |                               | (-4)         | CAAATGCCTGTCATCTAATTAGT∙∙∙       |
|          | AAAGCAAGTAAAC (-198)        |                               |              |                                  |
| iv       | 5’∙∙∙GAATGCGAGTGAAAAAAA     | AAGACCCTGTT                  | (-49)        | GAGATCCACTGTCCCTACCTAC∙∙∙        |
|          | T (-340)                     | GAGCTTGACT                   |              |                                  |
|          |                               | CTAGTCTGGC                   |              |                                  |
|          |                               | ACGG (35)                    |              |                                  |
| v        | 5’∙∙∙GCCGCCACCCGCGGTGG       | AAGACCCTGTT                  | (+19)        | AACTATGACTCTCTTTAAGG∙∙∙          |
|          | AGCTCGAATTAATTC (-416)       | GAGCTTGACT                   |              |                                  |
|          |                               | CTAGTCTGGC                   |              |                                  |
|          |                               | ACGG (35)                    |              |                                  |