### Supplementary Table S1 Clinical features of the patients

| Patient | Age | Gender | Pathology                  | Grade |
|---------|-----|--------|----------------------------|-------|
| 1       | 31  | female | Astrocytoma                | II    |
| 2       | 67  | female | Astrocytoma                | II    |
| 3       | 62  | male   | Astrocytoma                | II    |
| 4       | 44  | male   | Astrocytoma                | II    |
| 5       | 34  | female | Oligodendroglioma          | II    |
| 6       | 57  | male   | Glioblastoma               | IV    |
| 7       | 36  | female | Anaplastic Astrocytoma     | III   |
| 8       | 46  | male   | Oligodendroglioma          | II    |
| 9       | 49  | female | Astrocytoma                | II    |
| 10      | 47  | female | Oligoastrocytoma           | II    |
| 11      | 46  | male   | Anaplastic Oligodendroglioma| III   |
| 12      | 46  | male   | Glioblastoma               | IV    |
| 13      | 35  | female | Astrocytoma                | II    |
| 14      | 46  | female | Glioblastoma               | IV    |
| 15      | 47  | male   | Glioblastoma               | IV    |
| 16      | 30  | female | Oligodendroglioma          | II    |
| 17      | 56  | female | Glioblastoma               | IV    |
| 18      | 67  | male   | Glioblastoma               | IV    |
| 19      | 65  | male   | Astrocytoma                | II    |
| 20      | 39  | female | Anaplastic Oligodendroglioma| III   |
| 21      | 58  | male   | Glioblastoma               | IV    |
| 22      | 47  | male   | Astrocytoma                | II    |
| 23      | 57  | male   | Anaplastic Astrocytoma     | III   |
| 24      | 58  | male   | Glioblastoma               | IV    |
| 25      | 52  | female | Anaplastic Oligodendroglioma| III   |
| 26      | 46  | male   | Oligodendroglioma          | II    |
| 27      | 50  | female | Glioblastoma               | IV    |
| 28      | 38  | male   | Astrocytoma                | II    |
| 29      | 59  | male   | Anaplastic Astrooligodendroglioma| III   |