S7 Table. OM-Apo contact frequency difference

| i<sup>a</sup> | j<sup>a</sup> | Δf<sup>b</sup> |
|-------------|-------------|-------------|
| 195         | 199         | 0.95        |
| 178         | 696         | -0.68       |
| 199         | 258         | 0.58        |
| 177         | 696         | -0.56       |
| 195         | 258         | -0.52       |
| 199         | 252         | 0.45        |
| 464         | 475         | -0.40       |
| 217         | 258         | 0.36        |
| 195         | 252         | -0.34       |
| 174         | 195         | 0.28        |
| 222         | 226         | -0.27       |
| 191         | 459         | -0.24       |
| 180         | 466         | -0.24       |
| 223         | 227         | -0.22       |
| 176         | 459         | 0.21        |
| 177         | 462         | 0.21        |
| 224         | 246         | -0.21       |
| 177         | 464         | 0.21        |
| 175         | 671         | 0.21        |
| 693         | 696         | 0.20        |
| 216         | 261         | 0.20        |
| 185         | 242         | -0.20       |
| 223         | 338         | 0.19        |
| 176         | 184         | -0.17       |
| 195         | 250         | -0.17       |
| 220         | 223         | -0.17       |
| 174         | 191         | -0.16       |
| 217         | 221         | -0.16       |
| 246         | 266         | 0.15        |
| 218         | 338         | -0.15       |
| 228         | 242         | 0.15        |
| 266         | 462         | -0.15       |
| 178         | 462         | 0.15        |
| 178         | 464         | 0.15        |
| 121         | 698         | 0.15        |
| 216         | 259         | -0.14       |
| 180         | 242         | -0.14       |
| 121         | 696         | 0.14        |
| 339         | 439         | 0.14        |
| 223         | 226         | 0.14        |
| 230         | 439         | -0.13       |
| 219         | 338         | -0.12       |
| 226         | 339         | -0.12       |
| 250         | 261         | -0.12       |
| 185         | 461         | -0.12       |
| 693         | 698         | -0.12       |
| 184         | 461         | 0.11        |
| 175         | 462         | -0.11       |
| 671         | 698         | -0.11       |
| 252         | 259         | 0.11        |
| 177         | 184         | -0.11       |
| 227         | 246         | -0.11       |
| 220         | 258         | -0.10       |

<sup>a</sup>Residues involved in the shortest paths connecting V698 and G helix residues in the network of OM-Apo contact changes (Fig. 10).

<sup>b</sup>Difference between the consensus matrices of contact frequencies calculated from the OM-bound and Apo simulations.