

Table 3. Hot-spot* residues of selected robust modes of *Dictyostelium* myosin II

Mode # †	Residue numbers
1	97, 120, 121, 122, 481 ‡, 483 , 484 , 485, 486, 488, 489, 490, 491, 492 , 493, 494 , 495, 496, 497, 498, 499 , 500, 501 , 502, 503, 504, 505, 506 , 508, 509, 683 , 686, 687, 688, 689 , 690, 691 , 692 , 693, 694, 695 , 696 , 697, 698, 699 , 701, 702, 723, 734, 736, 737 , 738 , 739, 740 , 741, 742, 743, 744, 745 , 746, 747
2	120, 121, 122, 483 , 484 , 485, 486, 487 , 488, 489, 490, 491, 492 , 493, 494 , 495, 496, 497, 498, 499 , 501 , 502, 503, 504, 505, 506 , 507, 508, 509, 510, 573, 649, 650, 651 , 652 , 680 , 682, 683 , 686, 687 , 688, 689, 691 , 692 , 693, 694, 695 , 696, 697, 698, 699 , 701, 702, 712, 720, 723, 739, 740 , 741, 742, 743, 744, 745 , 746, 747

* The hot-spot residues that introduce most significant site-specific perturbation have high- $\delta\omega$ values. The details of the calculations are given in ref. 1.

† These modes describe allosteric transitions and are also robust to sequence variations.

‡ Residues in bold have already been experimentally identified to be significant.

1. Zheng, W., Brooks, B. R., Doniach, S. & Thirumalai, D. (2005) *Structure (London)* **13**, 565-577.