

Sequence of key structural elements of the myosin Motor.

Conserved residues are in red.

		Chicken Myosin V	Dd. Myosin II
P-loop		162- GESGAGKT -170	178- TGESGAGKT -186
Loop1	TRANSDUCER	184-SGSASEAN-191 (8)	200-AGRNQANGSGV-V210 (11)
HG helix	TRANSDUCER	192-VEEKVLA-198	211-LEQQILQ-217
Switch I		209- AKTTRNDSSR -219	228- AKTTRNNSSR -238
β 6, bulge, β 7	TRANSDUCER	220- FGKYIEIG FDKRYR IIGAN MR T -241	239- FGKFIIEIQ FNNAG FISGASIQS -260
Linker	TRANSDUCER	423- LHSTVKQHS -431 (9)	441- LCQERKAY -448 (8)
β 5	TRANSDUCER	432- FIGVLD -437	449- FIGVLD -454
Switch II		437- DIYGFETFEINS -448	454- DISGFEIFKVNS -465
Relay		467- MHVFKLEQEEYMKEQIPWTLIDF -Y DNQ -493	484- HMHFKLEQEEYLKEKINWTFIDFGLDSQ -511
Strut		569- KD TVYE-574	589- KD PLQQ-594
SH2, <u>SH1 helix</u>		684-AC GVLETIRI SAAG-697	678-CN GVLEGIRI TRKG-691