

Table 1. Classification of plant myosins *

GI or protein ID	Gene/locus ID	Chromosome	Class and Group	Domains in addition to motor domain	Comment
<i>Arabidopsis thaliana</i> ¹					
15219766	AT1G04600	1	XI(G)	MyoN, IQ,CC, DIL	XI-A
15221848	AT1G54560	1	XI(J)	MyoN, IQ,CC, DIL	XI-E
30685403	AT1G17580	1	XI(K)	MyoN, IQ,CC, DIL	XI-1 (MYA1)
42561681	AT1G04160	1	XI(G)	MyoN, IQ,CC, DIL	XI-B
42561814	AT1G08730	1	XI(J)	MyoN, IQ,CC, DIL	XI-C
42562644	AT1G50360	1	VIII(A)	MyoN, IQ,CC	VIII-A
42569181	AT2G20290	2	XI(G)	MyoN, IQ,CC, DIL	XI-G
42569537	AT2G31900	2	XI(F)	MyoN, IQ,CC, DIL	XI-F
42569586	AT2G33240	2	XI(G)	MyoN, IQ,CC, DIL	XI-D
15230968	AT3G58160	3	XI(J)	MyoN, IQ,CC	XI-J
15231004	AT3G19960	3	VIII(A)	MyoN, IQ,CC	VIII-1 (ATM1)
15234096	AT4G27370	4	VIII(B)	IQ,CC	VIII-B
15235408	AT4G28710	4	XI(G)	MyoN, IQ	XIH
42567348	AT4G33200	4	XI(I)	MyoN, IQ,CC, DIL	XI-I
15240028	AT5G43900	5	XI(G)	MyoN, IQ,CC, DIL	XI-2 (MYA2)
42567989	AT5G20490	5	XI(K)	MyoN, IQ,CC, DIL	XI-K
42568525	AT5G54280	5	VIII(B)	IQ,CC	VIII-2 (ATM2)
<i>Oryza sativa</i> ²					
34910550	B1142C05.32	1	XI(K)	MyoN, IQ,CC, DIL	
50913341	OJ1534_E09.18	2	XI(I)	MyoN, IQ,CC, DIL	
50915880	P0643F09.26	2	XI(G)	MyoN, IQ,CC, DIL	
50909237	OSJNBa0069D13.10	2	XI(G)	MyoN, IQ,CC, DIL	
50920299	OSJNBa0033P04.23	3	XI(G)	IQ,CC, DIL	
50918683	OSJNBa0069E14.11	3	XI(F)	MyoN, IQ,CC, DIL	
50872470	OSJNBb0024N19.13	3	XI(K)	MyoN, IQ,CC, DIL	
50932503	OJ1741_B01.17	5	XI(K)	MyoN, IQ,CC	
n/a	n/a	5	n/a	MyoN, IQ,CC, DIL	OsMyoXI-I, incomplete
51535675	P0583E12.11	6	XI(J)	MyoN, IQ,CC, DIL	
36956965		7	?	MyoN, IQ,CC	Jiang SY and Ramachandram
37535568	OSJNBb0049A16.3	10	VIII(A)	IQ,CC	
37534010	OSJNBa0011L09.10	10	XI(I)	MyoN, IQ,CC, DIL	
37533058	OSJNBa0050M22.5	10	XI(I)	MyoN, IQ,CC, DIL	
<i>Populus trichocarpa</i> * (http://genome.jgi-psf.org/Poptr1/Poptr1.home.html)					
	PpXIII000424		XI(J)	IQ,CC, DIL	
	PpII001125		XI(G)	IQ,CC, DIL	
	PpII000379		XI(J)	MyoN, IQ,CC, DIL	
	PpVII0671		VIII(A)	MyoN, IQ,CC	
	PpVIII0427		XI(G)	MyoN, IQ,CC, DIL	
	PpXI0074		VIII(B)	MyoN, IQ,CC	
	PpV000284		VIII(A)	IQ,CC	
	Pp582092		VIII(B)	MyoN, IQ,CC	
	Pp61258		XI(J)	IQ,CC, DIL	
	561027		XI(K)	MyoN, IQ,CC, DIL	

Table 1. continue

GI or protein ID	Gene/locus ID	Chromosome	Class and Group	Domains in addition to motor domain	Comment
<i>Nicotiana bentamiana</i>					
	Nb XI-2		XI(G)	IQ,CC	
	Nb XI-F		XI(F)	MyoN, IQ,CC, DIL	
	Nb XI-K		XI(K)	MyoN, IQ,CC, DIL	
	Nb VIII-B		VIII(B)	MyoN, IQ,CC	
	Nb VIII-2		VIII(B)	MyoN, IQ,CC	
	Nb VIII-1		VIII(A)	MyoN, IQ,CC	
<i>Nicotiana tabacum</i>					
56201391			XI(K)	MyoN, IQ,CC, DIL	
29170491			XI(G)	IQ,CC	
<i>Zea mays</i>					
4733891			XI(K)	MyoN, IQ,CC, DIL	
4885026			VIII(A)	MyoN, IQ,CC	
4960051			XI(G)	IQ,CC, DIL	
<i>Medicago truncatula</i>					
92871115			XI(I)	IQ,CC	
92874377			XI(G)	MyoN, IQ,CC, DIL	
92876979			VIII(B)	MyoN, IQ,CC	
<i>Helianthus annuus</i>					
2444174			VIII(A)	MyoN, IQ,CC	
2444176			XI(K)	MyoN, IQ,CC	Very similar to 2444180
2444178			XI(G)	MyoN, IQ,CC, DIL	
2444180			XI(K)	MyoN, IQ,CC, DIL	
2731702			VIII(B)	MyoN, IQ	
<i>Petroselinum crispum</i>					
12231997			VIII(B)	MyoN, IQ,CC	
<i>Vallisneria spiralis</i>					
7243765			XI(G)	MyoN, IQ,CC, DIL	

Note: * - only myosins containing a head domain (myosin motor domain) were considered; ¹ - myosins from *Arabidopsis thaliana* are listed according to Reddy AS and Day IS, 2001. The names assigned to *Arabidopsis* myosins are listed in the “Comment” field; ² - myosins from *Oryza sativa* are listed according to ShuYe Jiang and Srinivasan Ramachandran, 2004; Domain abbreviations: MyoN – SH3-like myosin N-terminal domain; IQ - IQ calmodulin-binding motif; CC – coiled-coil domain; DIL – dilute-like domain;