

Supplemental Table S1: Sources for protein sequences used in LysM-RLK phylogeny analysis

Name	Alt Name	Locus ID	GenBank	Source	Database
AtLYK1	AtCERK1	At3g21630		[12]	TAIR10 [13]
AtLYK2		At3g01840		[12]	TAIR10 [13]
AtLYK3		At1g51940		[12]	TAIR10 [13]
AtLYK4		At2g23770		[12]	TAIR10 [13]
AtLYK5		At2g33580		[12]	TAIR10 [13]
LjNFR1			CAE02589.1	[11]	[14]
LjNFR5			CAE02597.1	[11]	[14]
LjLYS1			AB503681	[11]	[14]
LjLYS2			AB503682	[11]	[14]
LjLYS3			AB503683	[11]	[14]
LjLYS4			AB503684	[11]	[14]
LjLYS5			AB503686	[11]	[14]
LjLYS6			AB503687	[11]	[14]
LjLYS7			AB503688	[11]	[14]
LjLYS11			AB503689	[11]	[14]
LjLYS12			AB503690	[11]	[14]
LjLYS13			AB503691	[11]	[14]
LjLYS14			AB503692	[11]	[14]
LjLYS15			AB503693	[11]	[14]
LjLYS16			AB503694	[11]	[14]
LjLYS20			AB503695	[11]	[14]
LjLYS21			AB503696	[11]	[14]
MtNFP	MtNFR5	Medtr5g019040.1		[10]	Mt4.0v2 [15]
MtLYK1		Medtr5g086540.1		[10]	Mt4.0v2 [15]
MtLYK2		Medtr5g086310.1		[10]	Mt4.0v2 [15]
MtLYK3		Medtr5g086130.1		[10]	Mt4.0v2 [15]
MtLYK4		Medtr5g086120.1		[10]	Mt4.0v2 [15]
MtLYK5		Medtr5g086090.1		[10]	Mt4.0v2 [15]
MtLYK6		Medtr5g086040.1		[10]	Mt4.0v2 [15]
MtLYK7		Medtr5g086030.1		[10]	Mt4.0v2 [15]
MtLYK8		Medtr2g024290.1		[10]	Mt4.0v2 [15]
MtLYK9		Medtr3g080050.1		[10]	Mt4.0v2 [15]
MtLYK10		Medtr5g033490.1		[10]	Mt4.0v2 [15]
MtLYR1		Medtr8g078300.1		[10]	Mt4.0v2 [15]
MtLYR2		Medtr1g021845.1		[10]	Mt4.0v2 [15]
MtLYR3		Medtr5g019050.1		[10]	Mt4.0v2 [15]
MtLYR4		Medtr5g085790.1		[10]	Mt4.0v2 [15]
MtLYR5		Medtr7g079350.1		[10]	Mt4.0v2 [15]
MtLYR6		Medtr7g079320.1		[10]	Mt4.0v2 [15]
MtLYR7		Medtr3g080170.1		[10]	Mt4.0v2 [15]
OsLYK1		LOC_Os01g36550		[12]	TIGR7 [16]

OsLYK2		LOC_Os06g41980		[12]	TIGR7 [16]
OsLYK3		LOC_Os06g41960		[12]	TIGR7 [16]
OsLYK4		LOC_Os02g09960		[12]	TIGR7 [16]
OsLYK5		LOC_Os03g13080		[12]	TIGR7 [16]
OsLYK6		LOC_Os11g35330		[12]	TIGR7 [16]
SILYK1	Bti9	Solyc07g049180.2.1		[17]	ITAG2.4 [18]
SILYK2		Solyc02g094010.1.1		[17]	ITAG2.4 [18]
SILYK3		Solyc03g121050.2.1		[17]	ITAG2.4 [18]
SILYK4		Solyc02g089900.1.1		[17]	ITAG2.4 [18]
SILYK6		Solyc12g089020.1.1		[17]	ITAG2.4 [18]
SILYK7		Solyc02g089920.1.1		[17]	ITAG2.4 [18]
SILYK8		Solyc09g083200.2.1		[17]	ITAG2.4 [18]
SILYK9		Solyc09g083210.2.1		[17]	ITAG2.4 [18]
SILYK10		Solyc02g065520.1.1		[17]	ITAG2.4 [18]
SILYK11		Solyc02g081040.2.1		[17]	ITAG2.4 [18]
SILYK12		Solyc02g081050.2.1		[17]	ITAG2.4 [18]
SILYK13		Solyc01g098410.2.1		[17]	ITAG2.4 [18]
SILYK14		Solyc06g069610.1.1		[17]	ITAG2.4 [18]
SILYK15		Solyc11g069630.1.1		[9]	ITAG2.4 [18]

All amino acid sequences analyzed in this study were obtained from publicly available databases as indicated in the database column. Citations (indicated in brackets) are available in the main text.