	******* *******************************	
AT5G55160.1	MSATPEEDKKPDQGAHINLKVKGQDGNEVFFRIKRSTQLKKLMNAYCDRQSVDFNSIAFLFDGRRLRAEQTPDELEMEDGDEIDAMLHQTGGGAKNGLKLFCF	103
AT4G26840.1	MSANGEEDKKPGDGGAHINLKVKGQDGNEVFFRIKRSTOLKKLMNAYCDROSVDMNSIAFLFDGRRLRAEOTPDELDMEDGDEIDAMLHOTGGSGGGATA	100
POPTR 0014s18990.1		108
POPTR 0002s21690.1		105
POPTR 0002s21680.1		103
POPTR 0014s15650.1		103
GSVIVT01030502001	MSGVANPSSQDEDKKPNDQSGHINLKVKGQDGNEVFFRIKRSTQLKKLMNAYCDRQSVDLNSIAFLFDGRRLRGEQTPDELEMEDGDEIDAMLHQTGGACV	101
GSVIVT01003301001		91
GSVIVT01003307001	MSATGGAAGGCEEDKKPTDOGAHINLKVKGODGNEVFFRIKRSTOLKLMSAYCDROSVELNSIAFLFDGRRLRGEOTPDELEMEDGDEIDAMLHOTGGVAWM	103
Solyc12g006010.1.1		99
Solyc07g064880.1.1		99
Solyc09g059970.1.1		105
Solyc07g049360.1.1		96
LOC 0s01q68940.1	MSSPAGEDEKKPAGGEGGGAHINLKVKGQDGNEVFFRIKRSTOLKKLMNAYCDROSVDIKSIAFLFDGRRLNAEOTPDQLEMEDGDEIDAMLHOTGGSLPA	101
LOC 0s01g68950.1	MSAAGEEDKKPAGGEGGGAHINLKVKGODGNEVFFRIKRSTOLKKLMNAYCDROSVDMNAIAFLFDGRRLRGEOTPDELEMEDGDEIDAMLHOTGGCLPA	100
Bradi2q58830.1	MSAAGGEEDKKPAGGEGGGAHINLKVKGQDGNEVFFRIKRSTQLKKLMNAYCDRQSVDMTAIAFLFDGRRLRAEQTPDELEMEDGDEIDAMLHQTGGFLLPPNA	104
Sb03q043870.1	MSGAGEEDKKPAEAGGAHINLKVKGODGNEVFFRIKRSTOLKKLMNAYCDROSVDMNAIAFLFDGRRLRGEOTPDELEMEDGDEIDAMLHOTGGSVPGA	99
GRMZM2G053898 T01	MSGAGEEDKKPAEGGAHINLKVKGODGNEVFFRIKRSTOLKKLMNAYCDROSVDMNAIAFLFDGRRLRGEOTPDEVTOFGFRSQH	85
GRMZM2G082390 T01	MSGAGEEDKKPAEGGAHINLKVKGODGNEVFFRIKRSTOLKKLMNAYCDROSVDMNAIAFLFDGRRLRGEOTPDELEMEDGDEIDAMLHOTGGSVPSTT	99
	110	

Fig. S4 Alignment of SUMO protein sequences