

Table S1. Screen of RxL effectors for mobility

Highly expressed effectors	Successfully synthesised	Localisation of effector	Mobility (H, hypermobile; M, mobile; R, reduced; I, immobile)
ATR13	N		
ATR39_HaRxL48	Y	Cytoplasm&Nucleus	n.a. (low expression)
HaRxL100b	Y	Endoplasmic Reticulum	
HaRxL102	Y	Cytoplasm&Nucleus	n.a. (low expression)
HaRxL102b	Y	no expression	
HaRxL108	Y	Cytoplasm&Nucleus	I
HaRxL11	N		
HaRxL118	Y	Endoplasmic Reticulum	
HaRxL12	Y	Endoplasmic Reticulum	
HaRxL121	Y	Cytoplasm&Nucleus	I
HaRxL13	Y	Cytoplasm&Nucleus	H
HaRxL131b	Y	Cytoplasm&Nucleus	M
HaRxL131c	Y	no expression	
HaRxL135	Y	Cytoplasm&Nucleus	M
HaRxL136c	Y	Cytoplasm&Nucleus	M
HaRxL14b	Y	Cytoplasm&Nucleus	H
HaRxL154	Y	Chloroplast	
HaRxL25	Y	Nucleus	
HaRxL25b	Y	Endoplasmic Reticulum	
HaRxL29	Y	Endoplasmic Reticulum	
HaRxL34b	Y	Plasma membrane	
HaRxL35b	N		
HaRxL37	Y	Plasma membrane	
HaRxL37b	Y	Plasma membrane	
HaRxL37c	Y	Plasma membrane	
HaRxL37d	Y	Plasma membrane	
HaRxL44	Y	Chloroplast	
HaRxL46	Y	Cytoplasm&Nucleus	M
HaRxL57	Y	Cytoplasm&Nucleus	H
HaRxL59	Y	Plasma membrane	
HaRxL60	Y	Chloroplast	
HaRxL61	Y	Chloroplast	
HaRxL67	N		
HaRxL67b	N		
HaRxL76	Y	Endoplasmic Reticulum	
HaRxL77	Y	Cytoplasm&Nucleus	H
HaRxL78	Y	Cytoplasm&Nucleus	M
HaRxL8	Y	Cytoplasm&Nucleus	H

HaRxL88	Y	Chloroplast	
HaRxL92	Y	no expression	
HaRxL94	Y	Nucleus	
HaRxL94b	Y	Chloroplast	
HaRxL95	Y	Nucleus	
HaRxL97	Y	Cytoplasm&Nucleus	n.a. (stress symptoms)
HaRxL97b	Y	no expression	
HaRxL98	Y	Endoplasmic Reticulum	
HaRxLCRN22	Y	Cytoplasm&Nucleus	I
HaRxLCRN22b	Y	Cytoplasm&Nucleus	n.a. (low expression)
HaRxLL110	Y	Cytoplasm&Nucleus	n.a. (low expression)
HaRxLL128b	N		
HaRxLL137c	N		
HaRxLL141	Y	Endoplasmic Reticulum	
HaRxLL167	Y	Cytoplasm&Nucleus	n.a. (stress symptoms)
HaRxLL169	Y	Endoplasmic Reticulum	
HaRxLL169c	Y	Endoplasmic Reticulum	
HaRxLL21	Y	Cytoplasm&Nucleus	H
HaRxLL29	Y	Nucleus	
HaRxLL2b	Y	Nucleus	
HaRxLL38	Y	Nucleus	
HaRxLL39b	Y	Nucleus	
HaRxLL427	Y	no expression	
HaRxLL430	Y	Endoplasmic Reticulum	
HaRxLL445	Y	Cytoplasm&Nucleus	n.a. (stress symptoms)
HaRxLL449	Y	Cytoplasm&Nucleus	H
HaRxLL455	Y	Cytoplasm&Nucleus	n.a. (stress symptoms)
HaRxLL461b	Y	Endoplasmic Reticulum	
HaRxLL462	Y	Cytoplasm&Nucleus	n.a. (stress symptoms)
HaRxLL464b	Y	Cytoplasm&Nucleus	n.a. (stress symptoms)
HaRxLL468	Y	Cytoplasm&Nucleus	R
HaRxLL468b	Y	Cytoplasm&Nucleus	M
HaRxLL47	Y	Nucleus	
HaRxLL470	Y	Cytoplasm&Nucleus	H
HaRxLL5	Y	Endoplasmic Reticulum	
HaRxLL50b	N		
HaRxLL60	Y	Cytoplasm&Nucleus	n.a. (stress symptoms)
HaRxLL62	Y	Cytoplasm&Nucleus	M
HaRxLL62b	Y	Endoplasmic Reticulum	
HaRxLL65	Y	Chloroplast	
HaRxLL67	N		
HaRxLL74b	Y	Cytoplasm&Nucleus	n.a. (low expression)
HaRxLL75c	Y	Cytoplasm&Nucleus	n.a. (low expression)

HaRxLL75d	Y	Cytoplasm&Nucleus	n.a. (low expression)
HaRxLL75e	Y	Endoplasmic Reticulum	
HaRxLL79b	Y	Cytoplasm&Nucleus	n.a. (low expression)
HaRxLL79c	N		n.a. (low expression)
HaRxLL83	Y	Cytoplasm&Nucleus	n.a. (low expression)
HaRxLL87	Y	no expression	

Notes: n.a.(stress symptoms) indicates no mobility screening was performed because the effector induced indicators of stress; n.a. (low expression) indicates mobility screening was impaired by low expression