

Materials List for:

Potato Virus X-Based microRNA Silencing (VbMS) In Potato.

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Materials

Name	Company	Catalog Number	Comments
100 µM dATP and 100 µM dTTP	Omega Bio-tek, Inc., Norcross, Norcross, GA 30071 , USA	TQAC136	
3 M Sodium acetate, pH 4.0.	Teknova, Hollister, CA 95023, USA	#S0297	
Acetosyringone	TCI America, Portland, OR 97203, USA	D2666-25G	
Agrobacterium tumefaciens strains: GV3101, GV2260 or EHA105.			
Chloroform	VWR Corporate, Radnor, PA 19087-8660, USA	VWRV0757-950ML	
Dimethyl sulfoxide, DMSO	TCI America, Portland, OR 97203, USA	D0798-25G	
DTT	VWR Corporate, Radnor, PA 19087-8660, USA	VWRV0281-25G	
E. coli DB3.1			for maintenance of PVX-LIC and pTRV2e containing the ccdB gene
E. coli DH5α			for the destination constructs generated by LIC cloning
Fertilizer: Peters Peat Lite Special 15-0-15 Dark Weather Feed	ICL Specialty Fertilizers, Summerville, SC 29483, USA	G99260	
High fidelity PCR reagents: KAPA HiFi DNA Polymerase with dNTPs	Roche Sequencing and Life Science, Kapa Biosystems, Wilmington, MA, USA	7958960001	
Isoamyl alcohol	VWR Corporate, Radnor, PA 19087-8660, USA	VWRV0944-1L	
Koptec Pure Ethanol – 200 Proof	Decon Labs, King of Prussia, PA 19406 , USA	V1005M	
MES	TCI America, Portland, OR 97203, USA	M0606-250G	
MgCl ₂	ThermoFisher, Waltham, MA 02451, USA	MFCD00149781	
M-MuLV Reverse Transcriptase	New England BioLabs, Ipswich, MA 01938-2723 USA	M0253L	
Nano-drop spectrometer: NanoDrop One ^C Microvolume UV-Vis Spectrophotometer with Wi-Fi	ThermoFisher, Waltham, MA 02451, USA	ND-ONEC-W	
PCR machine: Bio-Rad MyCycler PCR System	Bio-Rad, Hercules, California 94547, USA	170-9703	
PCR machine: Eppendorf Mastercycler pro	Eppendorf, Hauppauge, NY 11788, USA	950030010	
pH meter	Sper Scientific, Scottsdale, AZ 85260, USA	Benchtop pH / mV Meter - 860031	

Phenol:chloroform:isoamyl alcohol (25:24:1), pH 6.7/8.0.	VWR Corporate, Radnor, PA 19087-8660, USA	VWRV0883-400ML	
Phytigel: Gellan Gum	Alfa Aesar, Tewksbury, MA 01876, USA	J63423-A1	
PVX VIGS vector: PVX-LIC			Zhao et al., 2016
Real-time PCR machine: QuantStudio 6 Flex Real-Time PCR System	ThermoFisher, Waltham, MA 02451, USA	4485697	
Real-time PCR reagent: KAPA SYBR® FAST qPCR Master Mix (2x) Kit	Roche Sequencing and Life Science, Kapa Biosystems, Wilmington, MA 01887, USA	7959389001	
Restriction enzyme: SmaI	New England BioLabs, Ipswich, MA 01938-2723 USA	R0141S	
Reverse transcription reagents: qScript cDNA SuperMix	Quanta BioSciences, Gaithersburg, MD 20877, USA	95107-100	
RNA extraction Kit: E.Z.N.A. Plant RNA Kit	Omega Bio-tek, Inc., Norcross, Norcross, GA 30071, USA	SKU: D3485-01	
RNase Inhibitor Murine	New England BioLabs, Ipswich, MA 01938-2723 USA	M0314L	
RNAzol RT	Sigma-Aldrich, St. Louis, MO 63103, USA	R4533	
Soil: Metro-Mix 360	Sun Gro Horticulture, Agawam, MA 01001-2907, USA	Metro-Mix 360	
T4 DNA polymerase and buffer	New England BioLabs, Ipswich, MA 01938-2723 USA	M0203S	