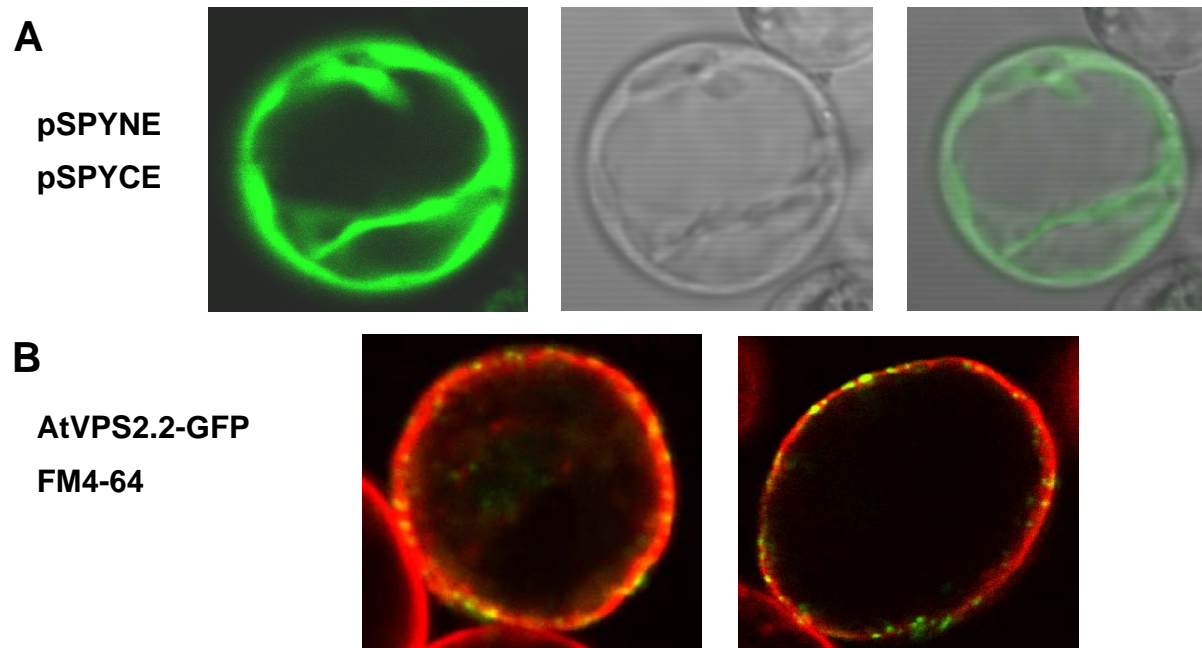


## Supporting Information

### Material and Methods:

The plasma membrane of transformed protoplasts was visualized with the membrane selective amphiphilic styryl dye FM4-64 by adding a 2000x stock solution (aqueous 16.4 mM SynaptoRed C2, Biotium, Germany) to the sterile protoplast incubation media (Gamborg's B5 basal salts, 0.34 M glucose, 0.34 M mannitol, pH 5.5) 30 min before observation with the confocal laser scanning microscope (CLSM) (TCS-SP2 Leica, Germany). Excitation wavelengths were 488 nm (argon laser) for GFP and FM4-64. Emissions were detected between 500-535 nm for GFP and 610-680 nm for FM4-64. Images were taken with a long distance 63x water-immersion objective. Pictures were prepared for publication with the Leica LAS AF Lite, ImageJ and Paint Shop Pro 5 software.



### Supplemental Figure S1. Single scans through transformed protoplasts

**A)** Protoplast transformed with the empty BiFC vectors pSPYNE and pSPYCE which occasionally and spontaneously interact in the cytoplasm. The left image shows the GFP emission, in the middle is the transmission image of the same protoplast and on the right the overlay between the GFP and transmission image. **B)** Protoplasts transformed with AtVPS2.2-GFP and stained with FM4-64. The orange-yellow speckles are AtVPS2.2-GFP labelled compartments that co-localized with the plasma membrane.





**Supplemental Table S2 Overview of the primer pairs used for cloning of the AtVPS2.2-GFP construct and the Y2H and BiFC interaction analyses.**

<b>Primer name</b>	<b>Primer sequence</b>
5g44560-5Bam	5`-AAGGATCCAAAGTGCTAGCCATCTAC
5g44560-3Bam	5`-CTGGATCCACGTATTGTGTTTGCATGAC
5g44560_GFP_Sacl-pm	5`-TAGTTGAGCTCCGTTCTGTAATATTCG
5g44560_GFP_NcoI_R	5`-TATTCCATG GATCGTCGTAGCGAAGCCA
At5g44560_Y2HR	5`-CAGGATCCTCAGATTTCGTCTAGCGA
At5g44560_Y2HF	5`-CAGAATTCATGAACATTTTCGAGAAGAAG
At5g22950_Y2HR	5`-GAGGATCCTTAGGATCTAACTTTAGCGAG
At5g22950_Y2HF	5`-CACATATGGAGAGAGTGATGAACATC
At2g06530_Y2HR	5`-GACCCGGGTCACATTTTTCTAAGGTTATCC
At2g06530_Y2HF	5`-GACATATGATGAATTCAATCTTCGGAA
At1g03950_Y2HR	5`-TCGAATTCCTATCTAAGCGCCGCCAA
At1g03950_Y2HF	5`-CAGAATTCATGAACATCTTCACTAAGAAAC
At1g17730_Y2HR	5`-CTGGATCCTTAACCTCTGGCTTTAAGCT
At1g17330_Y2HF	5`-TCGAATTCATGGGTAATACAGATAAGCTG
At1g73030_Y2HR	5`-TAGGATCCTTATCCTCTGGCTTTAAGCT
At1g73030_Y2HF	5`-GAGAATTCATGGGTAACACAGATAAGC
At3g45000_Y2HR	5`-GAGGATCCCTATGATCTAACATTGGCTAG
At3g45000_Y2HF	5`-CTCATATGACTATTAAGTTTGCCTTCAG
At5g09260_Y2HR	5`-CACCCGGGTTCAAGCTTCAAAGGTTCTTC
At5g09260_Y2HF	5`-GACATATGGGGAATTTATTCGTGAAG
At3g10640_Y2HR	5`-CTGGATCCTTAACCCCGGAGAGAAGCT
At3g10640_Y2HF	5`-TAGAATTCATGAGGAGAGTTTTCGGCGCGA
At5g63880_Y2HR	5`-CTGGATCCTCAAGCCGGCAAACCTTC
At5g63880_Y2HF	5`-CAGAATTCATGGGGAATTTGTCGTGAAG
At4g29160_Y2HR	5`-TAGGATCCTTAGAGGGCCATCTC
At4g29160_Y2HF	5`-TAGAATTCATGATGAATCGGCTATTCGA
At2g19830_Y2HR	5`-GAGGATCCTTAGAGAGCCATCTCAGCT
At2g19830_Y2HF	5`-CTCATATGTTTATGAATCGGCTATTCGGGA
At5g04850_Y2HR	5`-CAGGATCCTTAGCCCCGAAGTGATGCA
At5g04850_Y2HF	5`-CAGAATTCATGAAGAGAATCTTTGGAGCGA
5g44560_BamHI_15_start	5`-CGCCACTAGTGGATCCATGAACATTTTCGAGAAG
5g44560_XmaI_15_end	5`-ATGGGTACATCCCGGGGATTCGTCTAGCGAAGC
1g73030_BamHI_15_start	5`-CGCCACTAGTGGATCCATGGGTAACACAGATAAGC
1g73030_XmaI_15_end	5`-ATGGGTACATCCCGGGTCTCTGGCTTTAAGCTC
1g17730_BamHI_15_start	5`-CGCCACTAGTGGATCCATGGGTAATACAGATAAGCTG
1g17730_XmaI_15_end	5`-ATGGGTACATCCCGGGACCTCTGGCTTTAAGCTCG
4g29160_BamHI_15_start	5`-CGCCACTAGTGGATCCATGATGAATCGGCTATTC
4g29160_Sall_15_end	5`-TACCCTCGAGGTCGACGAGGGCGATCTCAGCCT