|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Table S1. Interactions found between exocytosis related SNAREs in plants** | | | | | | | |
| **Syntaxin orthogroup** | **VAMP**  **Orthogroup** | | **Syntaxin** | **VAMP** | | **Assay** | **Reference** |
| SYP11I | VAMP72I | | AtSYP111 | AtVAMP721 | | Co-IP | (El Kasmi et al., 2013) |
| SYP12I | VAMP72I | | AtSYP121 | AtVAMP721 | | Pull-down | (Kwon et al., 2008) |
| Split luciferase | (Ichikawa et al., 2014) |
| Co-IP | (Ebine et al., 2011) |
| Pull-down | (Karnik et al., 2013) |
| AtVAMP722 | | Pull-down | (Kwon et al., 2008) |
| split luciferase | (Ichikawa et al., 2014) |
| AtVAMP721/AtVAMP722 | | Co-IP | (Kwon et al., 2008) |
| HvSYP121 | HvVAMP721 | | FRET-FLIM | (Kwon et al., 2008) |
| Split YFP | (Kwaaitaal et al., 2010) |
| AtSYP122 | AtVAMP722 | | Pull-down | (Pajonk et al., 2008) |
| VAMP72IV | | AtSYP121 | AtVAMP724 | | Pull-down | (Kwon et al., 2008) |
| split luciferase | (Ichikawa et al., 2014) |
| VAMP72VII | | AtSYP121 | AtVAMP727 | | pull down  Co-IP | (Kwon et al., 2008)  (Ebine et al., 2011) |
| SYP12IV | VAMP72I | | AtSYP123 | AtVAMP721 | | Pull-down,  Split luciferase | (Ichikawa et al., 2014) |
|  |  | |  | AtVAMP722 | | Pull-down,  Split luciferase | (Ichikawa et al., 2014) |
|  | VAMP72IV | | AtSYP123 | AtVAMP724 | | Pull-down,  Split luciferase | (Ichikawa et al., 2014) |
| SYP13I | VAMP72I | | AtSYP132 | AtVAMP721 | | Pull-down,  split luciferase | (Yun et al., 2013) |
| split luciferase | (Ichikawa et al., 2014) |
| AtVAMP722 | | Pull-down,  split luciferase | (Yun et al., 2013) |
| split luciferase | (Ichikawa et al., 2014) |
| VAMP72IV | |  | AtVAMP724 | | split luciferase | (Ichikawa et al., 2014) |
| **Absence of interaction found between exocytosis related SNAREs** | | | | | | | |
| **Syntaxin orthogroup** | **VAMP**  **Orthogroup** | **Syntaxin** | | | **VAMP** | **Assay** | **Reference** |
| SYP11I | VAMP72VII | AtSYP111 | | | AtVAMP727 | Co-IP | (Ebine et al., 2011) |
| SYP12I | VAMP72I | AtSYP121 | | | AtVAMP723  (ER/pseudogene) | split luciferase | (Ichikawa et al., 2014) |
| SYP12IV | VAMP72I | AtSYP123 | | | AtVAMP723  (ER/ pseudogene) | split luciferase | (Ichikawa et al., 2014) |
| SYP13I | VAMP72I | AtSYP132 | | | AtVAMP723  (ER/ pseudogene) | split luciferase | (Yun et al., 2013) |
| split luciferase | (Ichikawa et al., 2014) |

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**Table S2.** Primers used in this study.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **number** | **name** | **Sequence 5’🡪3’** |
| ddPRC/qPCR | 1 | SYP111F | TCCCATTGTCACTAGTTTCAGC |
| 2 | SYP111R | GGCAATTCAAACGACGATG |
| 3 | SYP121F | ATGCAGCAGCTATTCCCATC |
| 4 | SYP121R | TTCACAAGGTTTGCCTCACC |
| 5 | SYP122F | AGCGAGGAAGAACAAGATCAG |
| 6 | SYP122R | CCGATTGTAACCCTTGTTCC |
| 7 | SYP123F | TCTCAAATGGTGGCTACTGG |
| 8 | SYP123R | TGATGCTTGACTTGACTACCAAG |
| 9 | SYP131F | CGGTAACACATTGTTTCCACAAC |
| 10 | SYP131R | GAGACCAATGTTTGTTTCAACC |
| 11 | SYP132AF | CAGCAGTTTAACAAGGTTCATGG |
| 12 | SYP132AR | AATATGCACAGAAAGCCAATTC |
| 13 | SYP132BF | GTTGTGTTGGTTGGGAAAGC |
| 14 | SYP132BR | CAGAGACACACCGATGTATTAGC |
| 15 | V721AF | AGGAAGGGAAGTGAATAAGGTGTG |
| 16 | V721AR | AGCATGCTTTCTATACACAATTCC |
| 17 | V721DF | TTGTAAATTGTTTGCTTTGCG |
| 18 | V721DR | AAAAAGCCACAGGTCCAATC |
| 19 | V721EF | AAGCTTTTACAGTATGATGGTGATG |
| 20 | V721ER | ATGATAACAGGATGGGTCGG |
| 21 | V724F | AAGAAAATCAACCCAGGAGGG |
| 22 | V724R | CTTTATCCACCAGCAACAAGG |
| 23 | V727F | TTGTACATTGAATTTGGTGCG |
| 24 | V727R | CTTGATTCAAAGTGACCAGCAG |
| 25 | Actin2F | CAGATGTGGATCTCCAAGGGTGA |
| 26 | Actin2R | TGACTGAAATATGGCACAAGACTGAGA |
| 27 | Ub10F | CCCTTCATCTTGTCCTTCGTCTG |
| 28 | Ub10R | CACCTCCAATGTAATGGTCTTTCC |
| Cloning cds SYP131 | 29 | cdsSYP131F | CACCATGAATGATCTTCTAACGGAATCA |
| 30 | cdsSYP131R | CTATGCACCCTTTTTGGTAACC |
| Cloning cds VAMP724 | 31 | cdsVAMP724F | CACCATGAGTCAAGAATCGTTCATATACAGC |
| 32 | cdsVAMP724R | CTAATTTGAACAGTTAAATCCACCG |
| Cloning cds VAMP727 | 33 | cdsVAMP727F | CACCATGAGTCAAAGGGGTTTGATATAT |
| 34 | cdsVAMP727R | TCAACATTTGAAACCCCCAC |
| PCR expression cassettes | 35 | MGWSpeI\_F | TGACTAGTACGCCAAGCTATCAACTTTGT |
| 36 | MGWSwaI\_R | GCATTTAAATCACGACGGCCAGTGAAT |
| 37 | MGWSwaI\_F | TGATTTAAATACGCCAAGCTATCAACTTTGT |
| 38 | MGWApaI\_R | TCATAACGTGACTCCCTTAATTCTC |
| 39 | MGWApaI\_F | TAGGGCCCTACGCCAAGCTATCAACTTTGT |
| 40 | MGWEco81I\_R | AACCTTAGGTCACGACGGCCAGTGAAT |
| Split-GFP vector construction | 41 | AscI-GFPnF | AGGCGCGCCATGGTGAGCAAGGGCGAG |
| 42 | Acc65I-GFPnR | AGGTACCGGCCATGATATAGACGTTGTG |
| 43 | AscI-START-GFPcF | AGGCGCGCCATGGACAAGCAGAAGAACGGCAT |
| 44 | Acc65I-GFPcR | AGGTACCCTTGTACAGCTCGTCCATGC |
| Cloning SYP132α CRISPR construct | 45 | SG-F | CACCGTCGACGTAAAGCCTGTAGAAGA |
| 46 | SYP132α-U6-R | GACTTCACATGATCAGTTGCAATCACTACTTCGACTCTAGCTGT |
| 47 | SYP132α-SG-F | GCAACTGATCATGTGAAGTCGTTTTAGAGCTAGAAATAGCAAGTTA |
| 48 | SG-R | AAAAGGTACCAAAAATTATATCCTGTG |
| detection SYP132α CRISPR deletion | 49 | SYP132α-F1 | GGCTTTTGGAGCAATACGGG |
| 50 | SYP132α-R1 | GTAAGTTGTGCCACCGTTCG |
| Cas9 detection | 51 | Cas9-F | TGGAGCAGCACAAGCACTACC |
| 52 | Cas9-R | CAAGACCGGCAACAGGATTCA |
| Cloning Timer-NLS | 53 | RikH\_timer\_F | CACCATGGTGGCTTCCTCCGA |
| 54 | RikH\_NLS\_R | TTAGGCAACCTTTCTCTTCTTCTT |
| Cloning Timer | 55 | AscI-TimerF | GGCGCGCCATGGTGGCTTCCTCCGAAGA |
| 56 | KpnI-TimerR | GGTACCCAGGAACAGGTGGTGGCGGCC |