

Supplemental Table 1:

M/Z values of the peptides obtained after immunoprecipitation of a total protein extract from 10 d old transgenic seedlings expressing the *AtSERK1*-CFP fusion protein

m/z values identified for Protein A. The Mascot search was done using Trypsin/P as enzyme, a 100 ppm peptide mass tolerance and using the MSDB Database, with the taxonomy Bacteria (or any entries). A Mascot score of 102 was obtained.

906.58 NGFIQSLK
1474.67 DDPSQSANLLSEAK
1816.80 ANGTTADKIAADNKLADK
2064.03 EDGNGVHVVKPGDTVNDIAK
2381.10 DQQSAFYEILNMPNLNEAQR
2480.16 EQQNAFYEILNMPNLNEEQR
2485.14 EQQNAFYEILHLPNLNEEQR
2878.57 KLNDAQAPKEEDNNKPGKEDNNKPGK

m/z values identified for *AtSERK1*. The Mascot search was done using Trypsin/P as enzyme Oxidation (M) and Phosphorylation (ST) as variable modifications, a 100 ppm peptide mass tolerance and using the MSDB Database, with the taxonomy *Arabidopsis thaliana* (or any entries). A Mascot score of 84 was obtained.

m/z values of peptides identified without modification;

622.42 VYKGR
629.43 VEILR
986.54 LADGTLVAVK
1383.74 LADGTLVAVKRLK
1408.68 NILGRGGFGKVYK
1501.89 WDEWQKVEILR
1597.06 GRLADGTLVAVKRLK
1797.77 FSLRELQVADGFSNK
1803.87 ERPPSQPPLDWPTRK

m/z values of peptides identified with modification;

1676.84 Phospho (ST) GRLADGTLVAVKRLK
1701.84 Phospho (Y) NILGRGGFGKVYKGR
2054.93 Phospho (STY) GTIGHIAPEYLSTGKSSEK
1950.89 Oxygen (M) MLEGDGLAEKWDEWQK

m/z values identified for *AGL15*. The Mascot search was done using Trypsin/P as enzyme Phosphorylation (ST) as variable modifications, a 100 ppm peptide mass tolerance and using the MSDB Database, with the taxonomy *Arabidopsis thaliana*. A Mascot score of 62 was obtained.

m/z values of peptides identified without modification;

1434.77 SGKLFEYSSTGMK
1443.75 LLTNQLEESRLK
1984.86 ESPSSDSVTTNTSSETAER

m/z values of peptides identified with modification;

1560.67 Phospho (S) GDQSSLANSPPEAK
1567.69 Phospho (T) EQRAELENETLR
1567.69 Phospho (ST) ERLLTNQLEESR
1603.70 Phospho (ST) LLTNQLEESRLK
3288.56 Phospho (S) AEEDCAEVDILKDQLSKLQEKHLQLQGG

m/z values identified for 14-3-3 nu. The Mascot search was done using Trypsin/P as enzyme Phosphorylation (ST) as variable modifications, a 100 ppm peptide mass tolerance and using the MSDB Database, with the taxonomy *Arabidopsis thaliana* (or any entries). A Mascot score of 110 was obtained.

m/z values of peptides identified without modification;

638.37 DYRGK
675.43 RASWR
1097.61 GNDDHVSIK
1417.75 ASWRIISSIEQK
1531.77 GNDDHVSIKDYR
1716.82 GNDDHVSIKDYRGK
2033.01 EESRGNDDHVSIKDYR

m/z values of peptides identified with modification;

727.28 Phospho (Y) GDYHR
749.39 Phospho (Y) VFYLK
1365.63 Phospho (S) NVIGARRASWR
1492.74 Phospho (YT) YLAEFKTGAERK
1611.81 Phospho (SY) GNDDHVSIKDYR

m/z values identified for AtSERK3. The Mascot search was done using Trypsin/P as enzyme Oxidation (M) and Phosphorylation (ST) as variable modifications, a 100 ppm peptide mass tolerance and using the MSDB Database, with the taxonomy *Arabidopsis thaliana* (or any entries). A Mascot score of 96 was obtained.

m/z values of peptides identified without modification;

622.42 VYKGR
986.54 LADGTLVAVK
1351.66 ELQVASDNFSNK
1368.72 GLAYLHDHCDPK
1383.74 LADGTLVAVKRLK

1408.68 NILGRGGFGKVYK
1597.06 GRLADGTLVAVKRLK
1791.72 MSEVVRMLEGDGLAER

m/z values of peptides identified with modification
727.28 Oxygen (M) EEMFR
1676.84 Phospho (Y) GRLADGTLVAVKRLK
1701.84 Phospho (Y) NILGRGGF1GKVYKGR
1984.86 Phospho (S) ELQVASDNFSNKNILGR
2054.93 Phospho (ST) GTIGHIAPEYLSTGKSSEK

m/z values identified for BRI1. The Mascot search was done using Trypsin/P as enzyme. Oxidation (M) and Phosphorilation (ST) as variable modifications, a 100 ppm peptide mass tolerance and using the MSDB Database, with the taxonomy Arabidopsis thaliana (or any entries). A Mascot score of 76 was obtained.

m/z values of peptides identified without modification;
719.38 EMRKR
760.41 DGSAVAIK
1412.74 HRNLVPLLYCK
1560.67 FLNNPGLCGYPLPR
1562.79 LRISDVFDPELMK
1950.89 DGSAVAIKKLIHVSGQGDR

m/z values of peptides identified with modification;
620.40 Oxygen (M) MRGLK
708.30 Oxygen (M) NDGMKK
1199.53 Phospho (Y) NLVPLLYCK
1301.57 Oxygen (M) EFMAEMETIGK
1365.63 Phospho (T) EFMAEMETIGK
1373.64 Phospho (S) ISDVFDPELMK
1452.72 Phospho (S) YGSLEDVLHDPK
1492.74 Phospho (Y) HRNLVPLLYCK
1580.84 Phospho (S) YGSLEDVLHDPKK
2242.05 Oxygen (M) GLAFLHHNCSPHIIHRDMK
2306.07 Phospho (S) GLAFLHHNCSPHIIHRDMK

m/z values identified for KAPP. The Mascot search was done using Trypsin/P as enzyme Oxidation (M) and Phosphorilation (ST) as variable modifications, a 100 ppm peptide mass tolerance and using the MSDB Database, with the taxonomy Arabidopsis thaliana (or any entries). A Mascot score of 102 was obtained.

m/z values of peptides identified without modification;
703.40 EKVLSK

760.41 DKERGR
782.45 LPVKLGR
1185.76 KAVQLVLQMR
1408.68 FSAEPYISEPLR
1701.84 ESSAEKIANGLLNEAR
1917.81 DVFAVLASDGLWDVVSPK
1950.89 VLSKRDASDVL RDMFAK
1990.10 YFSRFRSSSRFSSTFK

m/z values of peptides identified with modification;

1067.60 Phospho (S) KEKVLSKR
1208.64 Oxygen (M) YIQMTEDHR
1383.74 Oxygen (M) DASDVL RDMFAK
1383.74 Phospho (S) IGVASDPMAMRR
1589.69 Oxygen (M) IGVASDPMAMRRGGR
1603.70 Phospho (S) RDASDVL RDMFAK
2242.05 Oxygen (M) KLP MEDVCHYKWPLPGANK
2306.07 Phospho (Y) KLP MEDVCHYKWPLPGANK

m/z values identified for *AtCDC48A*. The Mascot search was done using Trypsin/P as enzyme Oxidation (M) and Phosphorilation (ST) as variable modifications, a 100 ppm peptide mass tolerance and using the MSDB Database, with the taxonomy *Arabidopsis thaliana* (or any entries). A Mascot score of 80 was obtained.

m/z values of peptides identified without modifications;

746.38 QMAQIR
746.38 MNKVVR
1228.68 GDTILIKGKKR
1373.64 REKTNGEVERR
1430.75 IVSQLLTLMDGLK
1676.84 VLNQLLTEM DGMNAK

m/z values of peptides identified with modifications;

645.30 Phospho (Y) YARR
1363.56 Phospho (S) LAGESES NLRK
1501.89 Oxygen (M) IRMNKVVR SNLR
1562.79 Phospho (ST) MSTPAESSDSKSKK
1589.69 Phospho (S) LGDVISVHQCPDVK
1611.81 Oxygen (M) AAHFEESMKYARR
1816.80 Phospho (T) DTVCIALA DETCEEPK
1992.01 Phospho (T) IHTKNMKLAEDVDLE1R
2015.93 Phospho (ST) GPELLTMWFG ESEANVR

m/z values identified for zinc finger protein-*At2g33500*. The Mascot search was done using Trypsin/P as enzyme, a 100 ppm peptide mass tolerance and using the

MSDB Database, with the taxonomy *Arabidopsis thaliana* (or any entries). A Mascot score of 195 was obtained.

m/z values of peptides identified without modification;

745.42 AETRLR

789.54 EKKKTR

831.54 KARAETR

833.59 VKGRFVK

838.45 TRRYDK

1025.57 DNAMQRYK

1208.64 TRRYDKTIR

1336.75 KTRRYDKTIR

1465.75 GSTFTFNNVTHLK

1918.80 GQETSKSNNIPAAIHSK

1944.12 AETRLRVKGRFVKATDP