

AtSerp1n1 -----MDVRESISLQNVSMNLAKHVITT-VSQNSNVIFSPASI
 At1g62170 MEPKEKKQKLDTSEVASPSLSKTHLKKKTKKQKIRKSQEITSPSLSKNTDLVIASPSLSNIDVGEAMKKQNDVAIFLTGIVISS-VAKNSNVFSPASI
 AtSRP3 -----MDVREAMKNQTHVAMILSGHVLS-APKDSNVIFSPASI
 AtSRP2 -----MDSKRKNQELSTSETADPSLSKTNKKQKIDMQEAMKNQNEVSLLLVGKVISA-VAKNSNVFSPASI
 At2g26390 -----MELGKSIENQNNVVARLAKKVIETDVANGSNVVFSPMSI
 At3g45220 -----MELGKSMENQTDVMVLLAKHVIPT-VANGSNLVFSPMSI

AtSerp1n1 NVVLSIIAAGSAG---ATKDQILSFLKFSSTDQLNSFSSEIVSAVLADGSGANGGPKLSVANGAWIDKSLSFKPSFKQLLEDYSKASNQADFQSKAVEV
 At1g62170 NAALTMVAASSGGEQGEELRSFILSFLKSSSTDELNAIFREIASVVLVDGSKKGGPKIAVNGMWMQDQSLVSNPLSKDLFNFFSAAFAQVDFRСКАEEV
 AtSRP3 NSAITMHAAGPGG---DLVSGQILSFLRSSSIDELKTVFRELASVVDYADRATGGPKITAANGLWIDKSLNTPDKPKDLFENFFKAVYVPVDFRSEAEV
 AtSRP2 NAVLTVTAANTDN---KTLRSFILSFLKSSSTEETNAIFHELASVVFVDGSGETGGPKIAAVNGVWMEQSLSCNPDWEDLFLNFFKASFQVDFRHKAEV
 At2g26390 NVLLSLIAAGSNP---VTKEEILSFLMSPSTDHLNAVLAKIA---DGGTERSDLCLESTAHGVWIDKSSYLKPSFKELLENSYKASCSQVDFATKPEV
 At3g45220 NVLLCLIAAGSNC---VTKEQILSFIMLPSSDYLANVLAKTVSVALNDGMERSDLHLSTAYGVWIDKSLSFKPSFKDLLENSYNATCNQVDFATKPAEV

AtSerp1n1 IAEVNSWAEEKETNGLITEVLPEGSADS---MTKLIFANALYFKGTWNEKFDESLTQEGEFHLLDGNKVTAPFMTSKKKQYVSAYDGFQVGLPYLQGG
 At1g62170 RTEVNAWASSHTNGLIKDLLPRGSVTS---LTDVRYGSALYFKGTWEEKYKSKMTCKPKFYLLNGTSVSVPFMSSFEKQYIAAYDGFQVRLPYRQGR
 AtSRP3 RKEVNSWVEHHTNLIKDLLPDGSVTS---LTNKIYANALSFKGAWKRPFEKYTRDNDLYLVNGTSVSVPFMSSYENQYVRAYDGFQVRLPYRQGS
 AtSRP2 RLDVNTWASRHTNLDIKEILPRGSVTS---LTNWIYGNALYFKGAWEKAFDKSMTRDKPFHLLNGKSVSVPFMRSYEKQFIEAYDGFQVRLPYRQGR
 At2g26390 IDEVNIWADVHTNGLIKQILSRDCTDIKEIRNSTLILANAVYFKAAWSRKFDKDLTKDNDFHLLDGNVTVPFMMYSKDQYLRGYDGFQVRLPYVE--
 At3g45220 INEVNAWAEVHTNGLIKEILSDDSIKT---IRESMLILANAVYFKGAWSKKFDKDLTKSYDFHLLDGMTVKVPFMTNYKKQYLEYYDGFQVRLPYVE--

AtSerp1n1 --DKRQFSMYFYLPDANGLSDLLDKIVSTPGFLDNHIPPQRQVKVREFKIPKFKFSFGFDASNVLKGGLTSPFSGEEGLTEMVESPEMGKNC-----
 At1g62170 DNTNRNFAMYIYLPDKKGELDDLLEMTSTPGFLDSHNPERRVKVGKFRIPKFKIEFGFEASSAFSDFELD-----
 AtSRP3 DDTNRKFSMYFYLPDKKDGDLDDLEKMASTPGFLDSHIPTYRDELEKFRIPKFKIEFGFVSFVTLDRGLRS-----
 AtSRP2 DDTNRFSMYLYLPDKKGELDNLLERITSNPGFLDSHIPYEVVDGDFRIPKFKIEFGFEASSVFNDFELN-----
 At2g26390 --DKRHFMSYIYLPNDKDGLAALLEKISTEPGFLDSHIPLHRTVPDALRIPKLNFSFEFKASEVLKDMGLTSPFTSKGNLTEMVDSPSN-----GDKLH
 At3g45220 --DQRQFAMYIYLPNDRDGLPTLLEEISSKPRFLDNHIPPQRILTEAFKIPKFKFSFEFKASDVLKEMGLTLPFTH-GSLTEMVESPSIPENLCVAENLF

AtSerp1n1 VSNIFHKACIEVNEEGTEAAAASAGVIKLR GLLMEDE--IDFVADHPFLLVVTENITGVVLFIQGVDP-LH-----
 At1g62170 -VSFYQKTLIEIDEKGTEAVTTFARSAYL GCALVKP--IDFVADHPFLFLIRREEQTGTVLFAQGFDPISA-----
 AtSRP3 -MSMYHKACVIEIDEEGAEEAAATADGDCGC SLDFVEPPKKIDFVADHPFLFLIRREKTGTVLVFGQIFDPSGPGCSGNSDSDDY
 AtSRP2 -VSLHQKALIEIDEEGTEAAAATVVVVVTG SCLW-EPKKKIDFVADHPFLFLIRREDKTGTLFAGQIFDPSLESSALDRA-----
 At2g26390 VSSIHKACIEVDEEGTEAAAVSVAIMMPQ CLMRNP-----DFVADHPFLFTVRDENGSGVILFIQGVLPDSKH-----
 At3g45220 VSNVFKACIEVDEEGTEAAAVSVASMTKD MLLMG-----DFVADHPFLFTVREEKSGVILFMQGVLPDSIH-----

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P17 P8 P1 P4'