

A. ATHANASIOU, D. KHOSRAVI, F. TAMARI, AND J. S. SHORE. 2003. Characterization and localization of short-specific polygalacturonase in distylous *Turnera subulata* (Turneraceae). *American Journal of Botany* 90(5): 675-682.

APPENDIX. Sequence abbreviation, species, (gene name, when available), (tissue expressing the gene, when available) and accession numbers for polygalacturonase amino acid sequences used in the gene tree analysis. Modified from Markovič and Janeček (2001), with some additional sequences.

Abbreviation ^a	Species (gene name, expression)	SwissProt	GenBank
AspflB.pg	<i>Aspergillus flavus</i> (fungal)	P41750	U05020
Endopolygalacturonases			
Actde.pg	<i>Actinidia deliciosa</i> (leaf & bud)	P35336	L12019
Actde2.pg	<i>Actinidia deliciosa</i> (fruit)	-	AAF71160
Arath11.pg	<i>Arabidopsis thaliana</i> (root & seedling)	Q38958	X98130
Arath12.pg	<i>Arabidopsis thaliana</i>	O22699	AC002292
Branal.pg	<i>Brassica napus</i> (PG35-8) (pod dehiscence)	Q42399	X95800
Branal2.pg	<i>Brassica napus</i> (SAC66) (pod development)	Q42636	Z49971
Branal3.pg	<i>Brassica napus</i> (leaf abscission)	-	AJ250919
Cucme1.pg	<i>Cucumis melo</i> (fruit ripening)	O81244	AF062465
Cucme2.pg	<i>Cucumis melo</i> " "	O81245	AF062466
Cucme3.pg	<i>Cucumis melo</i> " "	O81246	AF062467
Cucsa.pg	<i>Cucumis sativus</i> (stress induced)	-	AB035890
Glyma1.pg	<i>Glycine max</i> (roots, wound response)	Q9SWS3	AF128266
LycesA.pg	<i>Lycopersicon esculentum</i> (PG2A, fruit)	P05117	X04583
Lyces1.pg	<i>L. esculentum</i> (TAPG1) (stigma, style)	O22311	AF001000
Lyces2.pg	<i>L. esculentum</i> (TAPG2) (stigma, style)	Q96487	AF001001
Lyces3.pg	<i>L. esculentum</i> (TAPG3) (abscission)	O22310	AF000999
Lyces4.pg	<i>L. esculentum</i> (TAPG4) (stigma, style)	Q96488	U70481
Lyces5.pg	<i>L. esculentum</i> (TAPG5) (abscission)	O22313	AF001003
Lyces6.pg	<i>L. esculentum</i> (TAPG6)	O22610	AF029230
Lyces7.pg	<i>L. esculentum</i> (stigma, style)	-	AF072732
Lyces8.pg	<i>L. esculentum</i> (wound response)	-	AF118567
Lyces9.pg	<i>L. esculentum</i> (seed)	-	AF138858
Maldo.pg	<i>Malus domestica</i> (fruit)	P48978	L27743
Medsa.pg	<i>Medicago sativa</i> (MSPG3) (Medsa.pg is expressed in roots in response to Rhizobium infection)	O82019	Y11118
Orysa.pg	<i>Oryza sativa</i>	-	AP003140
Peram.pg	<i>Persea americana</i> (fruit)	Q02096	X66426
Pissa.pg	<i>Pisum sativum</i>	-	AF361321
Prupe1.pg	<i>Prunus persica</i> (PRF5)(fruit)	P48979	X76735

Prupe3.pg	<i>Prunus persica</i>	Q43063	X77231
Rubid.pg	<i>Rubus idaeus</i> (fruit)	O65886	AJ224147
TsPG	<i>Turnera subulata</i> (short style)	-	AY185765
Vitvi.pg	<i>Vitis vinifera</i> (fruit)	-	AY043233

Exopolygalacturonases

Arath1.epg	<i>Arabidopsis thaliana</i> (flower)	P49063	X72292
Arath2.epg	<i>Arabidopsis thaliana</i> (flower)	O65401	X73222

Pollen Polygalacturonases

Cryja.pp	<i>Cryptomeria japonica</i> (pollen)	P43212	D29772
Goshi.pp	<i>Gossypium hirsutum</i> (pollen)	Q39786	U09717
Medsa.pp	<i>Medicago sativa</i> (P73)(pollen)	Q40312	U20431
Nicta.pp	<i>Nicotiana tabacum</i> (pollen)	Q05967	X71020
Nicta2.pp	<i>Nicotiana tabacum</i> (sperm cell)	-	AF248538
Salgi2.pp	<i>Salix gilgiana</i> (male flower)	Q9MBB9	AB029458
TsPP	<i>Turnera subulata</i> (pollen)	-	AY185764
Bran.pep	<i>Brassica napus</i> (Sta 44-4)(pollen)	P35337	L19879
Oenor.pep	<i>Oenothera organensis</i> (pollen)	P24548	-
Phlpr.pep	<i>Phleum pratense</i> (pollen)	Q9XG86	AJ238848
Zeama1.pep	<i>Zea mays</i> (pollen)	P26216	X57627

^aThe terminations of abbreviations for the individual enzyme specificities following Markovič and Janeček (2001) are: pg, endopolygalacturonase; epg, exopolygalacturonase; pp, pollen polygalacturonase; pep, pollen exopolygalacturonase.