

Classic AGPS	SC
At1g35230	0
At2g14890	0
At2g22470	0
At2g47930	0
At3g01700	0
At3g06360	2
At4g09030	2
At4g37450	3
At5g10430	2
At5g14380	0
At5g18690	0
At5g64310	3
At5g65390	0

AG peptides	SC
At1g55330	3
At2g46330	3
At3g01730	0
At3g13520	3
At3g20865	3
At3g57690	0
At3g61640	0
At4g26320	2
At5g11740	3
At5g40730	3
At5g53250	0
At5g56540	0

Extensin Related	SC
At1g23040	1
At1g70990	0
At3g06750	3
At4g16140	1
At5g11990	0
At5g49280	2

Phytocyanin-like	SC
At2g26720	0
At2g31050	0
At5g20230	0
At5g26330	0
At1g22480	0
At1g72230	0
At2g32300	0

At2g44790	0
At3g27200	0
At3g60270	0
At3g60280	0
At1g08500	3
At1g48940	0
At1g79800	3
At2g23990	3
At2g25060	3
At3g01070	0
At3g20570	0
At4g27520	0
At4g30590	3
At4g31840	3
At5g15350	3
At5g25090	2
At5g53870	3

Cobra Family	SC
At1g09790	3
At3g02210	0
At3g29810	3
At5g15630	0
At5g60920	0
At3g16860	3
At3g20580	0
At4g16120	1
At4g27110	0
At5g49270	0

Glycerophosphodiesterase-like	SC
At1g66970	1
At3g20520	3
At4g26690	0
At5g55480	2
At5g58050	3
At5g58170	2

Hedgehog Interacting protein (HIP)	SC
At1g74790	3
At5g39970	1
At5g62630	0

Fasciclin-like AGPs (FLAs)	SC
At1g03870	2

<i>At2g04780</i>	3
<i>At2g20520</i>	0
At2g24450	0
<i>At2g45470</i>	3
At3g12660	2
<i>At3g60900</i>	0
<i>At4g12730</i>	0
<i>At5g44130</i>	0
<i>At5g55730</i>	0
<i>At5g60490</i>	0

Fasciclin like	SC
<i>At1g30800</i>	0

β-1,3 Glucanases	SC
<i>At1g18650</i>	1
<i>At1g26450</i>	0
<i>At1g32860</i>	0
<i>At1g66250</i>	0
<i>At1g69295</i>	0
<i>At1g77780</i>	0
<i>At2g01630</i>	0
<i>At2g26600</i>	1
<i>At2g27500</i>	0
<i>At3g04010</i>	0
<i>At3g13560</i>	0
<i>At3g15800</i>	2
<i>At3g24330</i>	1
<i>At3g58100</i>	3
<i>At4g29360</i>	0
<i>At4g31140</i>	0
<i>At5g08000</i>	1
<i>At5g20870</i>	0
<i>At5g42100</i>	2
<i>At5g42720</i>	0
<i>At5g56590</i>	3
<i>At5g58090</i>	0
<i>At5g58480</i>	1
<i>At5g61130</i>	0
At5g64790	0

Polygalacturonase	SC
<i>At3g15720</i>	0

Pectate Lysases	SC
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At3g53190	3
At3g54920	3
At5g04310	0

Proteases	SC
At1g05840	3
At1g08210	0
At1g65240	3
At2g17760	0
At3g02740	3
At3g51330	0
At3g51350	0
At4g35880	0
At5g36260	0
At1g24140	0
At1g59970	0
At1g70170	0
At2g45040	0
At4g16640	0
At3g43960	1

LTPL	SC
At1g05450	0
At1g18280	0
At1g27950	3
At1g36150	3
At1g55260	0
At1g62790	1
At2g27130	3
At2g44300	3
At2g48130	0
At2g48140	0
At3g22600	2
At3g43720	1
At3g58550	3
At4g08670	0
At4g12360	0
At4g14815	3
At4g22640	0
At5g09370	3
At5g13900	0
At5g64080	3

SKU5 Family	SC
At4g12420	3

<i>At4g25240</i>	0
<i>At5g51480</i>	3

RLK3	SC
<i>At1g63550</i>	1
<i>At1g63580</i>	0
<i>At5g41280</i>	0

Receptor Like	SC
<i>At1g20030</i>	0
<i>At4g36010</i>	0
<i>At4g38660</i>	0
<i>At1g07460</i>	0
<i>At1g21880</i>	3
<i>At1g77630</i>	0
<i>At2g17120</i>	2
<i>At1g80080</i>	0
<i>At2g42800</i>	2
<i>At4g2856</i>	0

GPI-Anchored peptides (GAPEPs)	SC
<i>At5g40960</i>	0
<i>At5g40970</i>	0
<i>At5g40980</i>	0

Other	SC
<i>At5g07190</i>	0
<i>At5g62200</i>	3
<i>At5g62210</i>	0
<i>At3g07390</i>	1
<i>At1g24520</i>	0
<i>At5g67130</i>	0
<i>At4g15460</i>	0

Hypothetical / unknown	SC
<i>At1g54860</i>	0
<i>At3g06035</i>	0
<i>At5g19250</i>	0
<i>At1g07135</i>	1
<i>At3g04640</i>	1
<i>At3g55790</i>	0
<i>At1g29980</i>	0
<i>At2g34510</i>	0
<i>At5g14150</i>	1
<i>At2g20700</i>	3

At4g28280	0
At5g56170	1
At3g18050	0
At4g28100	3
At3g27410	0
At1g23050	0
At1g70985	1
At5g35890	0
At1g21090	1
At1g56320	1
At1g61900	2
At1g64640	3
At2g28410	0
At2g29660	2
At3g26110	3
At3g44100	2
At3g58890	0
At3g61980	1
At4g28085	0
At5g08210	0
At5g22430	0

** GPI-Aps taken from Borner et al 2003 and Erlortza et al., 2003 and 2006

**LORELEI and ZERZAUST not on microarray

Elortza 2003, 2006 (Vegetative ProtLallanne 2004 (Pollen Proteomics)

At2g27500	At5g64790
At5g67130	At5g58480
At1g32860	At5g20230
At3g13560	At1g48940
At4g29360	At2g24450
At4g31140	At3g12660
At5g08000	At1g18280
At5g42100	At1g54860
At5g56590	
At5g58480	
At5g61130	
At2g01630	
At4g25240	
At4g12420	
At5g51480	
At3g29810	
At4g16120	
At3g07390	

At2g45470
At3g60900
At5g55730
At5g44130
At2g04780
At4g12730
At4g26690
At5g55480
At5g58090
At1g74790
At2g27130
At5g64080
At4g27520
At5g25090
At5g20230
At5g15350
At3g15720
At1g77630
At2g17120
At1g61900
At4g28100
At5g19250
At1g66970
At1g03870
At5g61130
At1g65240

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0	0
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0	0
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3	3
1	3
0	0
0	0
3	3
2	3
0	0
0	1
3	3

EC	CC
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0	0
2	3
1	0
0	0
3	3
0	0
3	3
0	0
0	0

EC	CC
2	0
1	3
0	0
1	2
3	3
0	1

EC	CC
3	3
2	3
0	0

EC	CC
2	1

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2	2
0	0
1	0
0	0
0	0
0	0
0	0
0	1

EC	CC
0	0

EC	CC
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3	2
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3	2
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0	0
1	0
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3	3
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0	3
0	0
0	0

EC	CC
0	0

EC	CC
----	----

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2	3
0	0

EC	CC
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EC	CC
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2	1
2	1
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0	0
2	3
1	2
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0	0
3	3
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3	3
0	0
3	3

EC	CC
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2	1
3	3

EC	CC
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0	0
0	0

EC	CC
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1	0
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0	0
0	2
0	0
3	3
0	0
2	1
0	2

EC	CC
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0	0
0	0

EC	CC
0	0
3	3
0	0
0	1
0	0
0	0
1	0

EC	CC
0	0
0	2
1	0
2	2
0	0
0	0
2	1
1	0
0	0
3	3

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	0	0
	0	0
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	0	0
	0	0
	1	0
	0	0
	1	1
	2	2
	2	2
	2	3
	0	1
	1	2
	3	1
	3	2
	0	0
	3	0
	0	0
	1	1
	0	0

06

Lallanne 2004 (Pollen RT-PCR)

At1g24520
 At3g20865
 At3g57690
 At5g14380
 At5g40730
 At3g26110
 At3g01700
 At2g24450
 At5g20230
 At2g20700
 At5g58170
 At5g58050
 At3g20580
 At4g28280
 At5g64790
 At5g53250
 At5g36260
 At4g08670

At1g65240
At4g27110
At1g55330
At1g18280
At1g70170
At2g46330
At3g27410
At3g12660
At1g09790
At5g51480
At3g16860
At1g05840
At1g56320
At5g49270
At4g28100
At3g61980
At3g04010
At3g02740
At4g16140
At5g60490
At3g58100
At1g77780
At5g58480
At1g48940
At3g07390
At1g54860

Sperm	Pollen	Comments
0		0 AGP5
0		0 AGP9
0		0
0		0
0		3 AGP11
0		0 AGP27
0		0 AGP 10
3		2 AGP18
0		0 AGP4
0		3 AGP6
0		0
3		3 AGP1
0		0

Sperm	Pollen	Comments
3		3 AGP21
3		3 AGP16
0		0
3		3 AGP12
0		3 AGP40
3		3 AGP23
0		0
2		1 AGP13
0		3 AGP15
3		3 AGP24
1		3 AGP22
0		0 AGP14

Sperm	Pollen	Comments
0		2
0		0
3		3
0		0
0		0
1		0

Sperm	Pollen	Comments
0		0
1		0
1		3
0		0
0		0
1		0
0		0

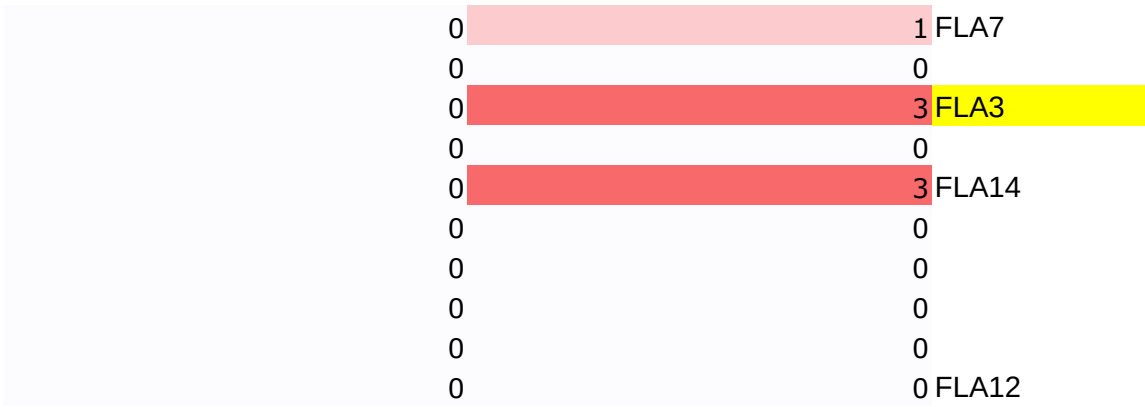
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3	3 ENODL14
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0	0
0	0
1	1 ENODL12
0	3
0	1
0	0 ENODL13
0	0

Sperm	Pollen
0	3
1	0
0	1
0	0
0	0
3	3
0	3 COBL10
3	2
0	3 COBL11
3	2

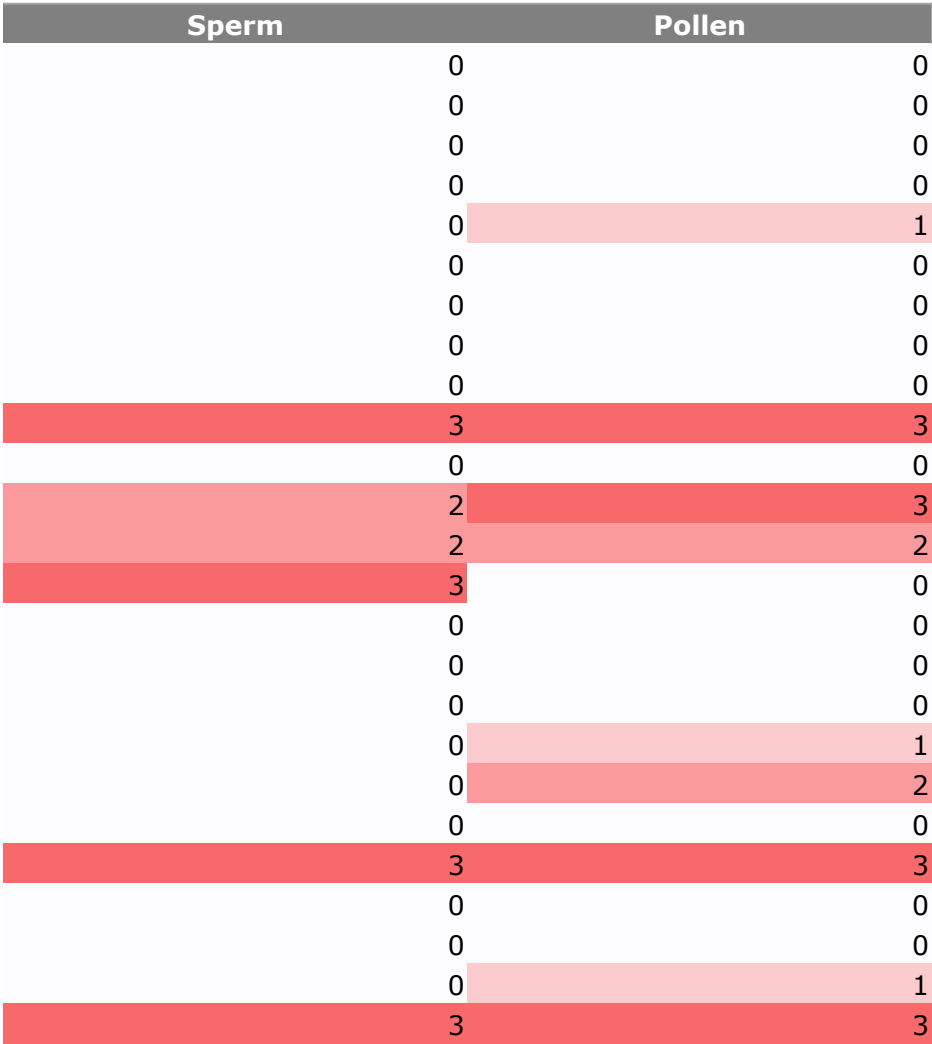
Sperm	Pollen
0	0
0	0
0	0
0	0
3	3
0	3

Sperm	Pollen
3	3
0	0
0	0

Sperm	Pollen
0	1 FLA9



Sperm	Pollen
0	0



Sperm	Pollen
0	0

Sperm	Pollen
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3	3
1	3 PRM6
3	1

Sperm	Pollen
0	3 Aspartyl
0	0 Aspartyl
3	3 Aspartyl (A39)
0	0 Aspartyl
3	3 Aspartyl
3	1 Aspartyl
0	0 Aspartyl
0	0 Aspartyl
3	3 Aspartyl (A36)
0	2 Metallo
2	1 Metallo
0	3 Metallo
0	0 Metallo
0	0 Metallo
2	0 Cys

Sperm	Pollen
0	0 LTPG21
0	3 LTPG3
0	0 LTPG1
0	3 LTPG23
0	0 LTPG6
0	0 LTPG7
0	0 LTPG12
0	0 LTPG14
0	0 LTPG15
0	0 LTPG16
0	1 LTPG5
0	1 LTPG2
2	1 LTPG22
0	3 LTPG4 (SIV)
0	0 LTPG24
2	3 LTPG26
0	0 LTPG33
0	0 LTPG29
0	0 LTPG30
3	3 LTPG31

Sperm	Pollen
3	3 SKU5

0	0
3	3

Sperm	Pollen
0	0
0	0
0	0

Sperm	Pollen
0	0
0	0
0	0
0	0
0	0 AtLYM1
0	0 AtLYM3
2	0 AtLYM2
0	0
0	0
0	0

Sperm	Pollen
1	0
0	0
0	0

Sperm	Pollen
0	0
1	3
0	0
3	3
2	3 BCP1

2	1
---	---

Sperm	Pollen
0	1
0	0
0	0
3	3
3	3
0	0
0	0
0	0
0	0
3	3 LLG2

0	3	LLG3
2	2	
0	0	
0	0	
0	3	
1	2	
0	0	
0	0	
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0	0	
2	0	
0	0	
2	1	
1	3	
0	0	
0	0	
3	3	
0	0	
0	0	
0	0	

Gene ID	SC	EC	CC	Sperm
At3g01700	0	0	0	0
At5g14380	0	0	0	0
At3g20580	0	0	0	0
At4g27110	0	0	0	0
At2g24450	0	0	0	0
At1g70170	0	0	0	0
At4g08670	0	0	0	0
At4g28280	0	0	0	0
At3g27410	0	0	0	0
At1g48940	0	0	0	0
At1g24140	0	0	0	0
At1g69295	0	0	0	0
At5g20870	0	0	0	0
At5g61130	0	0	0	0
At1g54860	0	0	0	0
At3g04010	0	0	0	3
At5g64790	0	0	0	3
At5g20230	0	0	0	1
At5g49270	0	0	0	3
At1g23050	0	0	0	1
At1g59970	0	0	0	2
At1g24520	0	0	0	2
At5g04310	0	0	0	3
At5g56170	1	0	0	2
At3g04640	1	0	0	3
At3g57690	0	0	1	3
At1g18280	0	0	3	0
At3g01070	0	1	3	0
At5g58170	2	0	1	0
At3g12660	2	0	0	0
At1g23040	1	0	0	0
At5g15350	3	0	0	0
At3g51330	0	2	0	3
At4g15460	0	1	0	2
At2g31050	0	0	0	1
At1g72230	0	0	0	1
At3g02210	0	0	0	1
At5g40960	0	0	0	1
At1g35230	0	0	2	0
At2g14890	0	0	3	0
At2g28410	0	0	1	0
At5g60490	0	0	1	0
At4g2856	0	0	2	0
At3g06035	0	0	2	0
At2g34510	0	1	0	0
At5g19250	0	1	0	0
At4g36010	0	1	0	0

At3g60900	0	1	0	0
At5g15630	0	1	0	0
At1g70990	0	1	0	0
At5g65390	0	1	0	0
At5g56540	0	2	0	0
At3g13560	0	2	0	0
At2g27500	0	2	0	0
At4g25240	0	2	1	0
At1g29980	0	2	1	0
At5g08210	0	1	1	0
At5g14150	1	0	0	0
At4g16140	1	0	0	0
At5g10430	2	0	0	0
At3g06360	2	0	0	0
At5g58480	1	0	3	0
At5g25090	2	0	1	0
At1g21880	3	0	2	0
At3g43960	1	0	2	2
At5g49280	2	2	0	1
At1g63550	1	1	0	0
At1g70985	1	1	0	0
At5g08000	1	1	0	0
At1g18650	1	1	0	0
At1g66970	1	2	0	0
At4g09030	2	2	0	0
At1g62790	1	3	1	0
At2g26600	1	3	2	0
At5g39970	1	2	3	0
At1g21090	1	1	1	0
At5g55480	2	1	2	0
At2g42800	2	2	1	0
At1g61900	2	2	2	0
At3g44100	2	3	2	0
At5g53870	3	3	3	0
At3g20520	3	1	3	0
At2g45470	3	2	2	0
At2g27130	3	2	1	0
At2g44300	3	2	1	0
At4g28100	3	3	2	0
At1g27950	3	3	3	0
At5g09370	3	3	3	0
At2g17120	2	3	3	2
At3g58100	3	3	2	3
At1g64640	3	2	3	2
At3g07390	1	0	1	3
At1g07135	1	2	2	3
At5g36260	0	3	2	3
At5g53250	0	1	3	1

At3g61980	1	3	0	3
At3g15800	2	3	2	2
At3g43720	1	1	2	0
At1g03870	2	2	1	0
At3g22600	2	2	3	0
At3g29810	3	2	3	0
At2g04780	3	3	2	0
At5g42100	2	3	3	0
At3g20865	3	2	3	0
At5g11740	3	3	3	0
At4g31840	3	2	3	0
At1g09790	3	3	3	0
At1g05840	3	3	3	0
At1g36150	3	3	2	0
At1g56320	1	2	2	3
At3g24330	1	1	2	2
At4g26320	2	2	2	2
At2g29660	2	1	2	2
At4g16120	1	3	3	3
At3g58550	3	3	3	2
At4g30590	3	3	3	1
At4g14815	3	3	3	2
At3g54920	3	2	3	1
At5g62200	3	3	3	1
At3g26110	3	3	1	1
At4g37450	3	3	3	3
At2g23990	3	3	3	3
At3g06750	3	3	2	3
At1g08500	3	3	2	3
At5g64310	3	3	3	3
At1g55330	3	3	3	3
At2g46330	3	3	3	3
At3g13520	3	3	3	3
At5g40730	3	3	3	3
At1g79800	3	3	3	3
At2g25060	3	3	3	3
At3g16860	3	3	3	3
At5g58050	3	3	3	3
At1g74790	3	3	3	3
At5g56590	3	3	3	3
At3g53190	3	3	3	3
At1g65240	3	3	3	3
At3g02740	3	3	3	3
At5g64080	3	3	3	3
At4g12420	3	3	3	3
At5g51480	3	3	3	3
At2g20700	3	3	3	3
Total GPI-APs	89	92	86	61

250 predicted GAPS

43 not on microarray

207 analyzed

142 expressed in gametophytes

