

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Acarus siro	Mite	Unassigned	Aero Mite	Acarus Aca s 13	131	118638268	9
Actinidia chinensis	Kiwi	Unassigned	Food Plant	Actinidia Act c 1 Act d 1	380	190358935	9
Actinidia chinensis	Kiwi	Unassigned	Food Plant	Actinidia Act c 10 LTP	15	378548410	13
Actinidia chinensis	Kiwi	Unassigned	Food Plant	Actinidia Act c 8 Act d 8	159	281552896	11
Actinidia chinensis	Kiwi	Unassigned	Food Plant	PR-10	189	85701136	7
Actinidia chinensis	Kiwi	Unassigned	Food Plant	Actinidia Kiwellin	20	68064399	7
Actinidia chinensis	Kiwi	Unassigned	Food Plant	Actinidia thaumatin Act d 2	380	15984	7
Actinidia chinensis	Kiwi	Unassigned	Food Plant	Actinidia Act c 1 Act d 1	380	166317	7
Actinidia chinensis	Kiwi	Unassigned	Food Plant	Actinidia Act c 1 Act d 1	380	193806686	12
Actinidia chinensis	Kiwi	Unassigned	Food Plant	Actinidia Act c 8 Act d 8	157	281552898	11
Actinidia chinensis	Kiwi	Unassigned	Food Plant	PR-10	92	378548411	13
Actinidia chinensis	Kiwi	Unassigned	Food Plant	Actinidia Act d 10 LTP	92	378405189	13
Actinidia chinensis	Kiwi	Unassigned	Food Plant	Actinidia Act d 10 LTP	150	332319679	12
Actinidia chinensis	Kiwi	Unassigned	Food Plant	Actinidia Act d 11 Kirola MLP	116	40807635	7
Actinidia chinensis	Kiwi	Unassigned	Food Plant	Actinidia Phytocystatin Act d 4	225	71057064	7
Actinidia chinensis	Kiwi	Act c 2	Food Plant	Actinidia thaumatin Act d 2	201	146737976	9
Actinidia chinensis	Kiwi	Unassigned	Food Plant	Actinidia thaumatin Act d 2	321	118216	7
Actinidia chinensis	Yellow fever mosquito	Aed a 2	Venom or Salivary	Aedes Aed a 2	321	205525919	9
Actinidia chinensis	Yellow fever mosquito	Aed a 2	Venom or Salivary	Aedes Aed a 2	253	2114497	7
Actinidia chinensis	Yellow fever mosquito	Unassigned	Venom or Salivary	Aedes Aed a 3	273	94468546	7
Actinidia chinensis	Yellow fever mosquito	Unassigned	Venom or Salivary	Aedes Aed a 3	258	94468552	7
Actinidia chinensis	Yellow fever mosquito	Unassigned	Venom or Salivary	Aedes Aed a 3	562	556272	7
Actinidia chinensis	Yellow fever mosquito	Aed a 1	Venom or Salivary	Aedes apyrase Aed a 1	562	193806340	10
Actinidia chinensis	Yellow fever mosquito	Unassigned	Venom or Salivary	Aedes apyrase Aed a 1	562	193806340	10

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 2 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Agrostis alba	Bent grass	Unassigned	Aero Plant	Agrostis Agr a 1	26	320606	7
Agrostis alba	Bent grass	Unassigned	Aero Plant	Agrostis Agr a 1	35	75139987	7
Agrostis alba	Bent grass	Unassigned	Aero Plant	Agrostis Agr a 1	35	75139989	7
Alnus glutinosa	Alder	Aln g 1	Aero Plant	Alnus Aln g 1	160	261407	7
Alnus glutinosa	Alder	Unassigned	Aero Plant	Alnus Aln g 4	85	3319651	7
Alternaria alternata	Fungus	Unassigned	Aero Fungi	Alternaria ADH Alta a 10	497	76666767	7
Alternaria alternata	Fungus	Unassigned	Aero Fungi	Alternaria Alt a 13	231	74611808	10
Alternaria alternata	Fungus	Alt a 1	Aero Fungi	Alternaria Alt a I	157	1842045	7
Alternaria alternata	Fungus	Alt a 1	Aero Fungi	Alternaria Alt a I	115	21913174	7
Alternaria alternata	Fungus	Unassigned	Aero Fungi	Alternaria Alt a I	157	45680856	7
Alternaria alternata	Fungus	Alt a 6	Aero Fungi	Alternaria enolase Alt a 6	438	14423684	7
Alternaria alternata	Fungus	Unassigned	Aero Fungi	Alternaria flavodoxin Alt a 7	204	1168402	9
Alternaria alternata	Fungus	Alt a 3	Aero Fungi	Alternaria HSP Alt a 3	152	14423730	7
Alternaria alternata	Fungus	Unassigned	Aero Plant	Alternaria MnSOD	25	292630881	12
Alternaria alternata	Fungus	Unassigned	Aero Fungi	Alternaria Nuc Transport 2	124	21748153	7
Alternaria alternata	Fungus	Alt a 12	Aero Fungi	Alternaria Ribosomal BP P1 Alt a 12	110	1350779	7
Alternaria alternata	Fungus	Alt a 5	Aero Fungi	Alternaria ribosomal P2 Alt a 5	113	1850540	7
Alternaria alternata	Fungus	Unassigned	Aero Fungi	Alternaria ribosomal P2 Alt a 5	113	1173071	10
Alternaria alternata	Fungus	Unassigned	Aero Fungi	Alternaria TCTP IgE binding	169	112824341	11
Alternaria alternata	Fungus	Alt a 4	Aero Fungi	Alternaria thioredoxin Alt a 4	436	85701160	7
Amaranthus retroflexus	Common Amaranth	Unassigned	Aero Plant	Amaranthus Ama r 2 Proflin	133	227937304	10
Ambrosia artemisiifolia	Short ragweed	Amb a 1.1	Aero Plant	Ambrosia Amb a 1	396	113475	7
Ambrosia artemisiifolia	Short ragweed	Amb a 1.2	Aero Plant	Ambrosia Amb a 1	398	113476	7
Ambrosia artemisiifolia	Short ragweed	Amb a 1.3	Aero Plant	Ambrosia Amb a 1	397	113477	7
Ambrosia artemisiifolia	Short ragweed	Amb a 1.4	Aero Plant	Ambrosia Amb a 1	392	113478	7
Ambrosia artemisiifolia	Short ragweed	Amb a 1.3	Aero Plant	Ambrosia Amb a 1	397	166443	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 3 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 1	396	302127810	12
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 1	398	302127812	12
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 1	397	302127814	12
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 1	397	302127816	12
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 1	397	302127818	12
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 1	397	302127820	12
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 1	397	302127822	12
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 1	387	302127824	12
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 1	397	302127826	12
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 1	397	302127828	12
Ambrosia artemisiifolia	Short ragweed	Amb a 2	Aero Plant	Ambrosia Amb a 2	397	113479	7
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 4	164	285005079	11
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 4	164	291197394	12
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 4	111	291482306	12
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 4	140	291482308	12
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 4	134	291482310	12
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 4	96	291482314	12
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 4	110	291482316	12
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 4	116	291482318	12
Ambrosia artemisiifolia	Short ragweed	Amb a 6	Aero Plant	Ambrosia Amb a 6	118	14285595	7
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 8 profilin	133	34851182	7
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 8 profilin	131	34851180	7
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 8 profilin	131	34851178	7
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 8 profilin	133	62249502	7
Ambrosia artemisiifolia	Short ragweed	Unassigned	Aero Plant	Ambrosia Amb a 8 profilin	133	62249512	7
Ambrosia artemisiifolia (elator)	Short ragweed	Amb a 3	Aero Plant	Ambrosia Amb a 3	101	416636	7
Ambrosia artemisiifolia (elator)	Short ragweed	Amb a 5	Aero Plant	Ambrosia Amb a 5	45	114090	7
Ambrosia psilostachya	Western ragweed	Unassigned	Aero Plant	Ambrosia Amb a 5	77	515953	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 4 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Ambrosia psilostachya	Western ragweed	Unassigned	Aero Plant	Ambrosia Amb a 5	77	515954	7
Ambrosia psilostachya	Western ragweed	Unassigned	Aero Plant	Ambrosia Amb a 5	77	515955	7
Ambrosia psilostachya	Western ragweed	Unassigned	Aero Plant	Ambrosia Amb a 5	77	515956	7
Ambrosia psilostachya	Western ragweed	Unassigned	Aero Plant	Ambrosia Amb a 5	77	515957	7
Ambrosia trifida	Giant ragweed	Amb t 5	Aero Plant	Ambrosia trifida Amb t 5	73	114091	7
Anacardium occidentale	Cashew	Ana o 1	Food Plant	Anacardium Ana o 1	536	21666498	7
Anacardium occidentale	Cashew	Ana o 1	Food Plant	Anacardium Ana o 1	538	21914823	7
Anacardium occidentale	Cashew	Ana o 2	Food Plant	Anacardium Ana o 2	457	25991543	7
Anacardium occidentale	Cashew	Ana o 3	Food Plant	Anacardium Ana o 3	138	24473800	7
Ananas comosus	Pineapple	Unassigned	Aero Plant	Ananas Ana c 2 Bromelain precursor	351	75277440	7
Ananas comosus	Pineapple	Unassigned	Food Plant	Ananas profilin	131	75306610	10
Anisakis simplex	Parasitic fish worm	Ani s 1	Worm (parasite)	Anisakis Ani s 1 protease inhibitor	194	47605452	7
Anisakis simplex	worm	Unassigned	Food Animal	Anisakis Ani s 11	307	323575361	12
Anisakis simplex	worm	Unassigned	Food Animal	Anisakis Ani s 11	160	323575363	12
Anisakis simplex	worm	Unassigned	Food Animal	Anisakis Ani s 11	287	323575365	12
Anisakis simplex	worm	Unassigned	Food Animal	Anisakis Ani s 12	295	323575367	12
Anisakis simplex	Parasitic fish worm	Ani s 2	Worm (parasite)	Anisakis Ani s 2 paramyosin	473	8453086	7
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 2 paramyosin	869	42559536	9
Anisakis simplex	Parasitic fish worm	Ani s 3	Worm (parasite)	Anisakis Ani s 3 tropomyosin	284	14423976	7
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 3 tropomyosin	284	350285785	13
Anisakis simplex	Parasitic fish worm	Ani s 4	Worm (parasite)	Anisakis Ani s 4	14	47605398	7
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 4	115	110346534	8
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 5 SXP/RAL-2 family protein	152	121308878	8
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 7 UA3-recognized allergen	1096	119524036	9

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 8 SXP/RAL-2 family protein 2	150	155676636	9
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 8 SXP/RAL-2 family protein 2	150	155676682	9
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 8 SXP/RAL-2 family protein 2	150	155676684	9
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 8 SXP/RAL-2 family protein 2	150	155676686	9
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 8 SXP/RAL-2 family protein 2	150	155676688	9
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 8 SXP/RAL-2 family protein 2	150	155676690	9
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 8 SXP/RAL-2 family protein 2	150	155676692	9
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 8 SXP/RAL-2 family protein 2	150	155676694	9
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 8 SXP/RAL-2 family protein 2	150	155676696	9
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 8 SXP/RAL-2 family protein 2	150	155676698	9
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis Ani s 9	147	157418806	9
Anisakis simplex	Parasitic fish worm	Unassigned	Worm (parasite)	Anisakis simplex troponin-like	161	6065738	7
Anthoxanthum odoratum	grass	Unassigned	Aero Plant	Anthoxanthum Ant o 1	26	320607	7
Anthoxanthum odoratum	grass	Unassigned	Aero Plant	Anthoxanthum Ant o 1	32	75139986	7
Anthoxanthum odoratum	grass	Unassigned	Aero Plant	Anthoxanthum Ant o 1	32	75139990	7
Apis cerana	Indian honeybee	Unassigned	Venom or Salivary	Apis Api m 1	134	7435005	7

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Apis cerana cerana	Indian honeybee	Unassigned	Venom or Salivary	Apis Api m 1	134	24638082	7
Apis dorsata	Giant honeybee	Unassigned	Venom or Salivary	Apis Api m 1	134	47117012	7
Apis dorsata	Giant honeybee	Unassigned	Venom or Salivary	Apis Api m 4 Melittin	26	126955	7
Apis mellifera	Honeybee	Api m 1	Venom or Salivary	Apis Api m 1	167	24418862	7
Apis mellifera	Honeybee	Api m 2	Venom or Salivary	Apis Api m 2	382	585279	7
Apis mellifera	Honeybee	Unassigned	Venom or Salivary	Apis Api m 3 acid phosphatase	388	208342441	10
Apis mellifera	Honeybee	Unassigned	Venom or Salivary	Apis Api m 3 acid phosphatase	388	60652325	11
Apis mellifera	Honeybee	Unassigned	Venom or Salivary	Apis Api m 4 Melittin	27	69552	7
Apis mellifera	Honeybee	Unassigned	Venom or Salivary	Apis Api m 4 Melittin	70	126949	8
Apis mellifera	Honeybee	Unassigned	Venom or Salivary	Apis Api m 5 dipeptidylpeptidase	775	313471719	12
Apis mellifera	Honeybee	Unassigned	Venom or Salivary	Apis Api m 6	92	94400907	7
Apis mellifera	Honeybee	Unassigned	Venom or Salivary	Apis Api m 6	94	88770352	10
Apis mellifera	Honeybee	Unassigned	Venom or Salivary	Apis icarapin Api m 10	223	94471622	7
Apis mellifera	Honeybee	Unassigned	Venom or Salivary	Apis icarapin Api m 10	175	94471624	7
Apium graveolens	Celery	Api g 1.0101	Food Plant	Apium Api g 1	154	1346568	7
Apium graveolens	Celery	Api g 1.0201	Food Plant	Apium Api g 1	159	14423646	9
Apium graveolens	Celery	Api g 2.0101	Food Plant	Apium Api g 2	118	256600126	12
Apium graveolens	Celery	Api g 4	Food Plant	Apium Api g 4	134	4761578	7
Apium graveolens	Celery	Unassigned	Food Plant	Apium Api g 5	22	33300921	7
Apium graveolens	Celery	Unassigned	Food Plant	Apium Api g 5	30	32363124	7
Apium graveolens	Celery	Unassigned	Food Plant	Apium Api g 5	24	32363125	7
Apium graveolens	Celery	Unassigned	Food Plant	Apium Api g 5	10	32363126	7
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Agglutinin (lectin)	273	253289	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Arachis hypogaea	Peanut	Ara h 1	Food Plant	Arachis Ara h 1	614	1168390	7
Arachis hypogaea	Peanut	Ara h 1	Food Plant	Arachis Ara h 1	626	1168391	7
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 1	299	46560474	7
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 1	303	46560472	7
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 1	428	46560476	7
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 1	619	312233063	12
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 1	418	375332427	13
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 1	418	347447588	13
Arachis hypogaea	Peanut	Ara h 2.02	Food Plant	Arachis Ara h 2	172	26245447	7
Arachis hypogaea	Peanut	Ara h 2	Food Plant	Arachis Ara h 2	169	31322017	7
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 2	156	15418705	10
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 2	158	224747150	10
Arachis hypogaea	Peanut	Ara h 5	Food Plant	Arachis Ara h 5	131	5902968	7
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 5	131	284810529	11
Arachis hypogaea	Peanut	Ara h 6	Food Plant	Arachis Ara h 6	129	5923742	7
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 6	144	17225991	7
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 6	127	159163254	9
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 6	145	75114094	10
Arachis hypogaea	Peanut	Ara h 7	Food Plant	Arachis Ara h 7	160	5931948	7
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 7	164	158121995	10
Arachis hypogaea	Peanut	Ara h 8	Food Plant	Arachis Ara h 8	157	37499626	7
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 8	153	145904610	9
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 8	157	169786740	9
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 8	157	110676574	12
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 9 LTP isoallergens	116	161087230	10
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Ara h 9 LTP isoallergens	92	161610580	10
Arachis hypogaea	Peanut	Ara h 3	Food Plant	Arachis Glycinin (Ara h 3)	507	3703107	7
Arachis hypogaea	Peanut	Ara h 4	Food Plant	Arachis Glycinin (Ara h 3)	530	5712199	7
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Glycinin (Ara h 3)	538	21314465	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Glycinin (Ara h 3)	219	22135348	7
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Glycinin (Ara h 3)	512	112380623	8
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Glycinin (Ara h 3)	530	199732457	10
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Glycinin (Ara h 3)	510	224036293	10
Arachis hypogaea	Peanut	Unassigned	Food Plant	Arachis Glycinin (Ara h 3)	512	312233065	12
Argas reflexus	European pigeon tick	Arg r 1	Venom or Salivary	Argas Arg r 1	159	58371884	7
Argas reflexus	European pigeon tick	Unassigned	Venom or Salivary	Argas Arg r 1	144	322812205	12
Artemisia vulgaris	Mugwort	Art v 1	Aero Plant	Artemisia Art v 1	132	27818335	7
Artemisia vulgaris	Mugwort	Unassigned	Aero Plant	Artemisia Art v 2	162	148887203	9
Artemisia vulgaris	Mugwort	Unassigned	Aero Plant	Artemisia Art v 3	37	73621307	7
Artemisia vulgaris	Mugwort	Unassigned	Aero Plant	Artemisia Art v 3	114	189544578	11
Artemisia vulgaris	Mugwort	Unassigned	Aero Plant	Artemisia Art v 3	116	189544584	11
Artemisia vulgaris	Mugwort	Unassigned	Aero Plant	Artemisia Art v 3	117	189544590	11
Artemisia vulgaris	Mugwort	Unassigned	Aero Plant	Artemisia Art v 3	117	189544595	11
Artemisia vulgaris	Mugwort	Unassigned	Aero Plant	Artemisia Art v 4	133	73621415	7
Artemisia vulgaris	Mugwort	Unassigned	Aero Plant	Artemisia Art v 4	133	73621416	7
Artemisia vulgaris	Mugwort	Unassigned	Aero Plant	Artemisia Art v 6 pectate lyase	396	62530263	8
Arthroderma benhamiae	Fungus	Unassigned	Contact	Trichophyton (Arthroderma) Tri m 2	292	23894240	7
Arthroderma benhamiae	Fungus	Unassigned	Contact	Trichophyton (Arthroderma) Tri m 2	404	23894244	7
Arthroderma benhamiae	Fungus	Unassigned	Contact	Trichophyton (Arthroderma) Tri m 4	726	23894232	7
Arthroderma vanbreuseghemii	Fungus	Unassigned	Contact	Trichophyton (Arthroderma) Tri m 4	726	219687753	10
Ascaris lumbricoides	Parasitic roundworm	Unassigned	Worm (parasite)	Ascaris Asc s 1	134	2735096	7
Ascaris lumbricoides	Parasitic roundworm	Unassigned	Worm (parasite)	Ascaris Asc s 1	134	2735098	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Ascaris lumbricoides	Parasitic roundworm	Unassigned	Worm (parasite)	Ascaris Asc s 1	133	2735102	7
Ascaris lumbricoides	Parasitic roundworm	Unassigned	Worm (parasite)	Ascaris Asc s 1	133	2735106	7
Ascaris lumbricoides	Parasitic roundworm	Unassigned	Worm (parasite)	Ascaris Asc s 1	267	2735108	7
Ascaris lumbricoides	Parasitic roundworm	Unassigned	Worm (parasite)	Ascaris Asc s 1	267	2735110	7
Ascaris lumbricoides	Parasitic roundworm	Unassigned	Worm (parasite)	Ascaris Asc s 1	267	2735112	7
Ascaris lumbricoides	Parasitic roundworm	Unassigned	Worm (parasite)	Ascaris Asc s 1	134	2735114	7
Ascaris lumbricoides	Parasitic roundworm	Unassigned	Worm (parasite)	Ascaris Asc s 1	134	2735118	7
Ascaris lumbricoides	Parasitic roundworm	Unassigned	Worm (parasite)	Ascaris Asc s 1	134	2735100	7
Ascaris lumbricoides	Parasitic roundworm	Unassigned	Worm (parasite)	Ascaris tropomyosin	287	224016002	10
Ascaris suum	Parasitic roundworm	Asc s 1	Worm (parasite)	Ascaris Asc s 1	68	299550	7
Ascaris suum	Parasitic roundworm	Asc s 1	Worm (parasite)	Ascaris Asc s 1	1365	77416849	7
Ascaris suum	Parasitic roundworm	Unassigned	Worm (parasite)	Ascaris Asc s 1	134	343197079	12
Aspergillus flavus	Fungus	Unassigned	Aero Fungi	Aspergillus Oryzin Asp o 13, fl 13	403	74665726	7
Aspergillus fumigatus	Fungus	Asp f 1	Aero Fungi	Aspergillus Asp f 1	125	3021324	7
Aspergillus fumigatus	Fungus	Asp f 1	Aero Fungi	Aspergillus Asp f 1	150	9280360	7
Aspergillus fumigatus	Fungus	Unassigned	Aero Fungi	Aspergillus Asp f 1	176	54039254	7
Aspergillus fumigatus	Fungus	Asp f 10	Aero Fungi	Aspergillus Asp f 10	395	963013	7
Aspergillus fumigatus	Fungus	Asp f 11	Aero Fungi	Aspergillus Asp f 11	178	5019414	7
Aspergillus fumigatus	Fungus	Asp f 12	Aero Fungi	Aspergillus Asp f 12	706	83303658	7
Aspergillus fumigatus	Fungus	Asp f 2	Aero Fungi	Aspergillus Asp f 2	250	664852	7
Aspergillus fumigatus	Fungus	Asp f 2	Aero Fungi	Aspergillus Asp f 2	310	83300352	7
Aspergillus fumigatus	Fungus	Asp f 22	Aero Fungi	Aspergillus Asp f 22	438	13925873	7
Aspergillus fumigatus	Fungus	Unassigned	Aero Fungi	Aspergillus Asp f 22	438	83288046	7
Aspergillus fumigatus	Fungus	Asp f 3	Aero Fungi	Aspergillus Asp f 3	168	2769700	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 10 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Aspergillus fumigatus	Fungus	Asp f 4	Aero Fungi	Aspergillus Asp f 4	286	3005839	7
Aspergillus fumigatus	Fungus	Unassigned	Aero Fungi	Aspergillus Asp f 4	322	83300369	7
Aspergillus fumigatus	Fungus	Asp f 6	Aero Fungi	Aspergillus Asp f 6	221	1648970	7
Aspergillus fumigatus	Fungus	Unassigned	Aero Fungi	Aspergillus Asp f 6	210	83305645	7
Aspergillus fumigatus	Fungus	Asp f 7	Aero Fungi	Aspergillus Asp f 7	270	83300389	7
Aspergillus fumigatus	Fungus	Asp f 8	Aero Fungi	Aspergillus Asp f 8	111	6686524	7
Aspergillus fumigatus	Fungus	Unassigned	Aero Fungi	Aspergillus Asp f 8	111	83305635	7
Aspergillus fumigatus	Fungus	Unassigned	Aero Fungi	Aspergillus Asp f 9	395	85540942	7
Aspergillus fumigatus	Fungus	Unassigned	Aero Fungi	Aspergillus Ribosomal protein L3	392	21215170	7
Aspergillus fumigatus	Fungus	Unassigned	Aero Fungi	Aspergillus Ribosomal protein L3	392	83305621	7
Aspergillus fumigatus	Fungus	Unassigned	Aero Fungi	Aspergillus Vacuolar Serine protease	495	2143220	7
Aspergillus fumigatus Af293	Fungus	Unassigned	Aero Fungi	Aspergillus Asp f 2	304	66849502	7
Aspergillus niger	Fungus	Asp n 14	Aero Fungi	Aspergillus Asp n 14	804	2181180	7
Aspergillus niger	Fungus	Asp n 14	Aero Fungi	Aspergillus Asp n 14	804	4235093	7
Aspergillus niger	Fungus	Unassigned	Aero Fungi	Aspergillus Vacuolar Serine protease	533	289172	7
Aspergillus oryzae	Fungus	Asp o 21	Aero Fungi	Aspergillus Alpha-amylase A	499	94706935	7
Aspergillus oryzae	Fungus	Asp o 13	Aero Fungi	Aspergillus Oryzin Asp o 13, fl 13	403	129235	7
Bacillus lentus		Unassigned	Bacteria airway	Bacillus lentus subtilisin	269	267048	9
Bacillus licheniformis		Unassigned	Bacteria airway	Bacillus licheniformis subtilisin	379	135016	9
Bacillus licheniformis		Unassigned	Bacteria airway	Bacillus licheniformis subtilisin	374	11127680	9
Bacillus sp.		Unassigned	Bacteria airway	Bacillus lentus Esperase	361	1225905	9
Balanus rostratus		Unassigned	Food Animal	Balanus r tropomyosin	284	125659386	9
Batillus cornutus	Japanese turban shell	Unassigned	Food Animal	Batillus Tur c1	20	47117350	7
Batillus cornutus	Japanese turban shell	Unassigned	Food Animal	Batillus Tur c1	27	47117351	7

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Batillus cornutus	Japanese turban shell	Unassigned	Food Animal	Batillus Tur c1	284	219806588	10
Bertholletia excelsa	Brazil nut	Ber e 2	Food Plant	Bertholletia 11S globulin	465	30313867	7
Bertholletia excelsa	Brazil nut	Unassigned	Food Plant	Bertholletia Ber e 1	154	17713	7
Bertholletia excelsa	Brazil nut	Ber e 1	Food Plant	Bertholletia Ber e 1	146	112754	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	51	320545	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	534898	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	159	534900	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	534910	7
Betula pendula	European white birch	Bet v 1.0301	Aero Plant	Betula Bet v 1	160	1168702	7
Betula pendula	European white birch	Bet v 1.1001	Aero Plant	Betula Bet v 1	160	1168709	7
Betula pendula	European white birch	Bet v 1.1601	Aero Plant	Betula Bet v 1	160	1321714	7
Betula pendula	European white birch	Bet v 1.1701	Aero Plant	Betula Bet v 1	160	1321716	7
Betula pendula	European white birch	Bet v 1.1801	Aero Plant	Betula Bet v 1	160	1321718	7
Betula pendula	European white birch	Bet v 1.1502	Aero Plant	Betula Bet v 1	160	1321720	7
Betula pendula	European white birch	Bet v 1.1901	Aero Plant	Betula Bet v 1	160	1321722	7
Betula pendula	European white birch	Bet v 1.2001	Aero Plant	Betula Bet v 1	160	1321724	7
Betula pendula	European white birch	Bet v 1.2101	Aero Plant	Betula Bet v 1	160	1321726	7
Betula pendula	European white birch	Bet v 1.2201	Aero Plant	Betula Bet v 1	160	1321728	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	1168703	7
Betula pendula	European white birch	Bet v 1.0501	Aero Plant	Betula Bet v 1	160	1168704	7

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Betula pendula	European white birch	Bet v 1f/l	Aero Plant	Betula Bet v 1	160	1168705	7
Betula pendula	European white birch	Bet v 1.0801	Aero Plant	Betula Bet v 1	160	1168707	7
Betula pendula	European white birch	Bet v 1.0901	Aero Plant	Betula Bet v 1	160	1168708	7
Betula pendula	European white birch	Bet v 1m/n	Aero Plant	Betula Bet v 1	160	1168710	7
Betula pendula	European white birch	Bet v 1.0201	Aero Plant	Betula Bet v 1	160	1168701	7
Betula pendula	European white birch	Bet v 1.2401	Aero Plant	Betula Bet v 1	160	1542861	7
Betula pendula	European white birch	Bet v 1.2501	Aero Plant	Betula Bet v 1	160	1542863	7
Betula pendula	European white birch	Bet v 1.2601	Aero Plant	Betula Bet v 1	160	1542865	7
Betula pendula	European white birch	Bet v 1.2701	Aero Plant	Betula Bet v 1	160	1542867	7
Betula pendula	European white birch	Bet v 1.2801	Aero Plant	Betula Bet v 1	160	1542869	7
Betula pendula	European white birch	Bet v 1.2901	Aero Plant	Betula Bet v 1	160	1542871	7
Betula pendula	European white birch	Bet v 1.3001	Aero Plant	Betula Bet v 1	160	1542873	7
Betula pendula	European white birch	Bet v 1.2301	Aero Plant	Betula Bet v 1	160	2414158	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	2564220	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	2564222	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	2564224	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	2564228	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	4006928	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	4006945	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	4006953	7

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	4006955	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	4006957	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	4006959	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	4006961	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	4006965	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	4006967	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	159	4376216	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	159	4376219	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	159	4376220	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	159	4376221	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	159	4376222	7
Betula pendula	European white birch	Bet v 1 b1	Aero Plant	Betula Bet v 1	160	4590392	7
Betula pendula	European white birch	Bet v 1 b2	Aero Plant	Betula Bet v 1	160	4590394	7
Betula pendula	European white birch	bet v 1 b3	Aero Plant	Betula Bet v 1	160	4590396	7
Betula pendula	European white birch	Bet v 1.0701	Aero Plant	Betula Bet v 1	160	1168706	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	159	11514622	7
Betula pendula	European white birch	Bet v 1x	Aero Plant	Betula Bet v 1	21	30908931	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	159	38492423	7
Betula pendula	European white birch	Unassigned	Aero Plant	Betula Bet v 1	43	239734	7
Betula pendula	European white birch	Unassigned	Aero Plant	Betula Bet v 1	120	4006963	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 14 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Betula pendula	European white birch	Unassigned	Aero Plant	Betula Bet v 1	120	4006947	7
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	160	114922	8
Betula pendula	European white birch	Bet v 1	Aero Plant	Betula Bet v 1	159	159162097	9
Betula pendula	European white birch	Unassigned	Aero Plant	Betula Bet v 1b	51	320546	7
Betula pendula	European white birch	Bet v 2	Aero Plant	Betula Bet v 2	133	130975	7
Betula pendula	European white birch	Unassigned	Aero Plant	Betula Bet v 2	133	157830684	9
Betula pendula	European white birch	Bet v 3	Aero Plant	Betula Bet v 3	205	1168696	7
Betula pendula	European white birch	Bet v 4	Aero Plant	Betula Bet v 4	85	14423850	7
Betula pendula	European white birch	Bet v 6.0102	Aero Plant	Betula Bet v 6	308	10764491	7
Betula pendula	European white birch	Bet v 7	Aero Plant	Betula Bet v 7	173	21886603	7
Betula platyphylla	Japanese white birch	Unassigned	Aero Plant	Betula Bet v 1	160	12583681	7
Betula platyphylla	Japanese white birch	Unassigned	Aero Plant	Betula Bet v 1	160	12583683	7
Betula platyphylla	Japanese white birch	Unassigned	Aero Plant	Betula Bet v 1	160	12583685	7
Betula sp.	Birch	Unassigned	Aero Plant	Betula Bet v 1	51	298736	7
Betula sp.	Birch	Unassigned	Aero Plant	Betula Bet v 1b	51	298737	7
Blattella germanica	German cockroach	Unassigned	Aero Insect	Blattella 36 kDa allergen	20	544618	7
Blattella germanica	German cockroach	Unassigned	Aero Insect	Blattella 36 kDa allergen	25	544619	7
Blattella germanica	German cockroach	Unassigned	Aero Insect	Blattella arginine kinase	356	221602737	10
Blattella germanica	cockroach	Bla g 1.02	Aero Insect	Blattella Bla g 1	492	4240395	7
Blattella germanica	cockroach	Bla g 1.0101	Aero Insect	Blattella Bla g 1	412	4572592	7
Blattella germanica	cockroach	Bla g 2	Aero Insect	Blattella Bla g 2	352	1703445	7
Blattella germanica	cockroach	Unassigned	Aero Insect	Blattella Bla g 2	330	62738637	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 15 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Blattella germanica	cockroach	Unassigned	Aero Insect	Blattella Bla g 2	352	145105726	9
Blattella germanica	cockroach	Unassigned	Aero Insect	Blattella Bla g 2	334	315113421	12
Blattella germanica	cockroach	Bla g 4	Aero Insect	Blattella Bla g 4	182	1166573	7
Blattella germanica	cockroach	Unassigned	Aero Insect	Blattella Bla g 4	182	144952778	9
Blattella germanica	cockroach	Unassigned	Aero Insect	Blattella Bla g 4	181	212675308	10
Blattella germanica	cockroach	Unassigned	Aero Insect	Blattella Bla g 4	191	194350815	11
Blattella germanica	cockroach	Unassigned	Aero Insect	Blattella Bla g 4	190	194350817	11
Blattella germanica	cockroach	Unassigned	Aero Insect	Blattella Bla g 5	204	6225491	7
Blattella germanica	cockroach	Unassigned	Aero Insect	Blattella Bla g 5	200	144952780	9
Blattella germanica	cockroach	Unassigned	Aero Insect	Blattella Bla g 6	151	82704032	8
Blattella germanica	cockroach	Unassigned	Aero Insect	Blattella Bla g 6	151	82704034	8
Blattella germanica	cockroach	Unassigned	Aero Insect	Blattella Bla g 6	154	82704036	8
Blattella germanica	cockroach	Unassigned	Aero Insect	Blattella delta GST	216	161137518	11
Blattella germanica	cockroach	Unassigned	Aero Insect	Blattella tropomyosin	284	8101069	7
Blomia tropicalis	Mite	Blo t 1	Aero Mite	Blomia Blo t 1.01	221	14276828	7
Blomia tropicalis	Mite	Unassigned	Aero Mite	Blomia Blo t 1.02	333	33667928	8
Blomia tropicalis	Mite	Unassigned	Aero Mite	Blomia Blo t 1.02	333	2	8
Blomia tropicalis	Mite	Unassigned	Aero Mite	Blomia Blo t 10	284	156938889	9
Blomia tropicalis	Mite	Blo t 11	Aero Mite	Blomia Blo t 11	875	21954740	7
Blomia tropicalis	Mite	Unassigned	Aero Mite	Blomia Blo t 13.01	130	37958153	8
Blomia tropicalis	Mite	Unassigned	Aero Mite	Blomia Blo t 13.01	130	14423698	9
Blomia tropicalis	Mite	Unassigned	Aero Mite	Blomia Blo t 21	129	111120432	8
Blomia tropicalis	Mite	Unassigned	Aero Mite	Blomia Blo t 21	129	111494253	8
Blomia tropicalis	Mite	Unassigned	Aero Mite	Blomia Blo t 21	129	111120424	8
Blomia tropicalis	Mite	Unassigned	Aero Mite	Blomia Blo t 21	129	111120428	8
Blomia tropicalis	Mite	Unassigned	Aero Mite	Blomia Blo t 21	129	111120420	8
Blomia tropicalis	Mite	Unassigned	Aero Mite	Blomia Blo t 3	266	25989482	7
Blomia tropicalis	Mite	Unassigned	Aero Mite	Blomia Blo t 3	266	33667930	8
Blomia tropicalis	Mite	Blo t 5	Aero Mite	Blomia Blo t 5	134	4204917	7
Blomia tropicalis	Mite	Unassigned	Aero Mite	Blomia Blo t 5	134	111120436	9
Blomia tropicalis	Mite	Unassigned	Aero Mite	Blomia Blo t 5	134	111120450	9
Blomia tropicalis	Mite	Unassigned	Aero Mite	Blomia Blo t 5	119	160285626	9

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Bombus pennsylvanicus	Bumblebee	Unassigned	Venom or Salivary	Bombus Bom p 1 phospholipase	136	47117013	12
Bombus pennsylvanicus	Bumblebee	Unassigned	Venom or Salivary	Bombus Bom p 4 protease	243	75009997	12
Bombus terrestris	Bumblebee	Unassigned	Venom or Salivary	Bombus Bom t 1	136	14423832	7
Bombus terrestris	Bumblebee	Unassigned	Venom or Salivary	Bombus Bom t 4 protease	20	313471465	12
Bombyx mori	Silkworm	Unassigned	Food insect	Bombyx arginine kinase	355	204324083	10
Bos taurus	Bovine	Unassigned	Food Animal	Bos Alpha-s1 casein	93	162650	7
Bos taurus	Bovine	Unassigned	Food Animal	Bos Alpha-s1 casein	214	162792	7
Bos taurus	Bovine	Unassigned	Food Animal	Bos Alpha-s1 casein	214	162794	7
Bos taurus	Bovine	Unassigned	Food Animal	Bos Alpha-s1 casein	76	162927	7
Bos taurus	Bovine	Unassigned	Food Animal	Bos Alpha-s1 casein	205	159793197	9
Bos taurus	Bovine	Unassigned	Food Animal	Bos Alpha-s1 casein	172	159793201	9
Bos taurus	Bovine	Unassigned	Food Animal	Bos Alpha-s1 casein	129	159793217	9
Bos taurus	Bovine	Unassigned	Food Animal	Bos Alpha-s2-like casein	222	162929	7
Bos taurus	Bovine	Unassigned	Food Animal	Bos Beta-casein	224	162797	7
Bos taurus	Bovine	Unassigned	Food Animal	Bos Beta-casein	224	162805	7
Bos taurus	Bovine	Unassigned	Food Animal	Bos Beta-casein	224	162931	7
Bos taurus	Bovine	Unassigned	Food Animal	Bos Beta-casein	224	459292	7
Bos taurus	Bovine	Unassigned	Aero Animal	Bos Bos d 2	172	2497701	9
Bos taurus	Bovine	Bos d 3	Aero Animal	Bos Bos d 3	101	2493414	7
Bos taurus	Bovine	Bos d 4	Food Animal	Bos Bos d 4	142	295774	7
Bos taurus	Bovine	Unassigned	Food Animal	Bos Bos d 4	142	125996	9
Bos taurus	Bovine	Bos d 5	Food Animal	Bos Bos d 5	178	520	7
Bos taurus	Bovine	Unassigned	Food Animal	Bos Bos d 5	14	162750	7
Bos taurus	Bovine	Unassigned	Food Animal	Bos Bos d 5	178	125910	9
Bos taurus	Bovine	Unassigned	Food Animal	Bos Bos d 5	178	195957138	10
Bos taurus	Bovine	Unassigned	Food Animal	Bos Bos d 6	607	3336842	7
Bos taurus	Bovine	Unassigned	Food Animal	Bos Bos d 6	607	1351907	10
Bos taurus	Bovine	Unassigned	Vaccine	Bos collagen alpha2	1364	27806257	11
Bos taurus	Bovine	Unassigned	Food Animal	Bos Kappa-casein	190	162811	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Bos taurus	Bovine	Unassigned	Food Animal	Bos lactotransferrin	708	30794292	8
Brassica juncea	Mustard	Bra j 1	Food Plant	Brassica Bra j 1 2S albumin	129	32363444	9
Brassica napus	Rape	Bra n 1	Food Plant	Bra n 1	125	75107016	9
Brassica napus	Rape	Unassigned	Aero Plant	Brassica Calcim binding protein Group I	79	59800143	7
Brassica napus	Rape	Unassigned	Food Plant	Brassica napus 2S albumin	109	26985163	7
Brassica napus	Rape	Unassigned	Aero Plant	Brassica Polcalcine Group II	83	2129801	7
Brassica napus	Rape	Unassigned	Aero Plant	Brassica Polcalcine Group II	83	2129802	7
Brassica napus	Rape	Unassigned	Aero Plant	Brassica Polcalcine Group II	83	59800145	7
Brassica oleracea	Cabbage	Unassigned	Food Plant	Brassica Bra o 3 LTP manual entry	20	1	8
Brassica rapa	Turnip	Unassigned	Aero Plant	Brassica Polcalcine Group II	80	2129805	7
Brassica rapa subsp. rapa	Turnip	Unassigned	Contact	Brassica Bra r 2	91	32363456	9
Brassica rapa subsp. rapa	Turnip	Unassigned	Aero Plant	Brassica Calcim binding protein Group I	79	59800144	7
Brassica rapa subsp. rapa	Turnip	Unassigned	Aero Plant	Brassica Polcalcine Group II	83	59800146	7
Candida albicans	Yeast	Cand a 3	Contact	Candida Cand a 3	236	37548637	7
Candida albicans	Yeast	Unassigned	Contact	Candida Enolase 1	440	232054	7
Canis familiaris	Dog	Can f 1	Aero Animal	Canis Can f 1	174	3121745	7
Canis familiaris	Dog	Can f 2	Aero Animal	Canis Can f 2	180	3121746	7
Canis familiaris	Dog	Can f 2	Aero Animal	Canis Can f 2	177	29292272	7
Canis familiaris	Dog	Can f 2	Aero Animal	Canis Can f 2	179	29292274	7
Canis familiaris	Dog	Can f 3	Aero Animal	Canis Can f 3	265	633938	7
Canis familiaris	Dog	Can f 3	Aero Animal	Canis Can f 3	585	3319897	7
Canis familiaris	Dog	Can f 3	Aero Animal	Canis Can f 3	608	6687188	7
Canis familiaris	Dog	Unassigned	Aero Animal	Canis Can f 6 lipocalin	190	374092884	13
Canis familiaris	Dog	Unassigned	Aero Animal	Canis Can f epithelial 18 kDa	174	262232390	12
Capsicum annuum	Bell pepper	Cap a 2	Food Plant	Capsicum Cap a 2	131	16555785	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 18 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Carica papaya	Papaya	Unassigned	Food Plant	Carica Car p 1	345	129614	9
Carpinus betulus	Hornbeam	Car b 1	Aero Plant	Carpinus Car b 1	159	402745	7
Carpinus betulus	Hornbeam	Car b 1	Aero Plant	Carpinus Car b 1	160	730048	7
Carpinus betulus	Hornbeam	Car b 1	Aero Plant	Carpinus Car b 1	160	730049	7
Carpinus betulus	Hornbeam	Car b 1.0103	Aero Plant	Carpinus Car b 1	160	1545875	7
Carpinus betulus	Hornbeam	Car b 1.0104	Aero Plant	Carpinus Car b 1	160	1545877	7
Carpinus betulus	Hornbeam	Car b 1.0104	Aero Plant	Carpinus Car b 1	160	1545879	7
Carpinus betulus	Hornbeam	Car b 1.0105	Aero Plant	Carpinus Car b 1	160	1545887	7
Carpinus betulus	Hornbeam	Car b 1	Aero Plant	Carpinus Car b 1	160	1545891	7
Carpinus betulus	Hornbeam	Car b 1.0108	Aero Plant	Carpinus Car b 1	160	1545893	7
Carpinus betulus	Hornbeam	Car b 1.0301	Aero Plant	Carpinus Car b 1	161	1545895	7
Carpinus betulus	Hornbeam	Car b 1.0302	Aero Plant	Carpinus Car b 1	161	1545897	7
Carpinus betulus	Hornbeam	Unassigned	Aero Plant	Carpinus Car b 1	40	239735	7
Carpinus betulus	Hornbeam	Unassigned	Aero Plant	Carpinus Car b 1	160	167472845	10
Carpinus betulus	Hornbeam	Unassigned	Aero Plant	Carpinus Car b 1	160	167472837	10
Carpinus betulus	Hornbeam	Unassigned	Aero Plant	Carpinus Car b 1	160	167472843	10
Carpinus betulus	Hornbeam	Unassigned	Aero Plant	Carpinus Car b 1	160	167472841	10
Carpinus betulus	Hornbeam	Unassigned	Aero Plant	Carpinus Car b 1	160	167472839	10
Carpinus betulus	Hornbeam	Unassigned	Aero Plant	Carpinus Car b 1	80	1008578	12
Carpinus betulus	Hornbeam	Unassigned	Aero Plant	Carpinus Car b 1	80	1008579	12
Carpinus betulus	Hornbeam	Unassigned	Aero Plant	Carpinus Car b 1	80	1008580	12
Castanea sativa	chestnut	Cas s 1	Aero Plant	Castanea Cas s 1	160	16555781	7
Castanea sativa	chestnut	Unassigned	Aero Plant	Castanea Cas s 1	159	212291466	10
Castanea sativa	chestnut	Unassigned	Aero Plant	Castanea Cas s 1	159	212291464	10
Castanea sativa	chestnut	Unassigned	Aero Plant	Castanea Cas s 1	159	212291468	10
Castanea sativa	chestnut	Cas s 5	Food Plant	Castanea Cas s 5	316	1359600	7
Castanea sativa	chestnut	Unassigned	Aero Plant	Castanea Cas s 5	298	307159110	12
Cavia porcellus	Domestic guinea pig	Cav p 1	Aero Animal	Cavia Cav p 1	15	32469617	7
Cavia porcellus	Domestic guinea pig	Unassigned	Aero Animal	Cavia Cav p 2	170	325910590	12
Cavia porcellus	Domestic guinea pig	Unassigned	Aero Animal	Cavia Cav p 3 lipocalin	170	325910592	12

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Chamaecyparis obtusa	Japanese cypress	Unassigned	Aero Plant	Chamaecyparis Cha o 1	375	9087163	9
Chamaecyparis obtusa	Japanese cypress	Unassigned	Aero Plant	Chamaecyparis Cha o 2	514	47606004	7
Chamaecyparis obtusa	Japanese cypress	Unassigned	Aero Plant	Chamaecyparis Cha o 2	419	114841683	8
Charybdis feriatius	Crab	Cha f 1	Food Animal	Charybdis Cha f 1	264	14285800	9
Chenopodium album	Pigweed	Unassigned	Aero Plant	Chenopodium Che a 1	168	47605504	9
Chenopodium album	Pigweed	Che a 2	Aero Plant	Chenopodium Che a 2	131	29465666	7
Chenopodium album	Pigweed	Unassigned	Aero Plant	Chenopodium Che a 2	133	238886048	11
Chenopodium album	Pigweed	Che a 3	Aero Plant	Chenopodium Che a 3	86	29465668	7
Chionoecetes opilio	Snow Crab	Unassigned	Food Animal	Chionoecetes tropomyosin	284	308191588	12
Chironomus kiiensis	Midge	Unassigned	Aero Insect	Chironomus Chi k 10	285	42559556	9
Chironomus thummi thummi	Midge	Chi t 1.01	Aero Insect	Chironomus Chi t 1	151	121219	7
Chironomus thummi thummi	Midge	Chi t 1.02	Aero Insect	Chironomus Chi t 1	151	121227	7
Chironomus thummi thummi	Midge	Chi t 2	Aero Insect	Chironomus Chi t 2	158	2506460	7
Chironomus thummi thummi	Midge	Chi t 3	Aero Insect	Chironomus Chi t 3	161	56405306	7
Chironomus thummi thummi	Midge	Chi t 3	Aero Insect	Chironomus Chi t 3	160	1707908	7
Chironomus thummi thummi	Midge	Chi t 3	Aero Insect	Chironomus Chi t 3	161	1707911	7
Chironomus thummi thummi	Midge	Chi t 4	Aero Insect	Chironomus Chi t 4	151	121256	7
Chironomus thummi thummi	Midge	Chi t 5	Aero Insect	Chironomus Chi t 5	162	2506461	7
Chironomus thummi thummi	Midge	Chi t 7	Aero Insect	Chironomus Chi t 7	161	56405052	7
Chironomus thummi thummi	Midge	Chi t 7	Aero Insect	Chironomus Chi t 7	161	121244	7
Chironomus thummi thummi	Midge	Chi t 7	Aero Insect	Chironomus Chi t 7	161	56405054	7
Chironomus thummi thummi	Midge	Chi t 7	Aero Insect	Chironomus Chi t 7	161	121248	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 20 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Chironomus thummi thummi	Midge	Chi t 7	Aero Insect	Chironomus Chi t 7	162	121249	7
Chironomus thummi thummi	Midge	Chi t 8	Aero Insect	Chironomus Chi t 8	151	121237	7
Chironomus thummi thummi	Midge	Chi t 9	Aero Insect	Chironomus Chi t 9	151	121259	7
Citrus limon	Lemon	Unassigned	Food Plant	Citrus LTP Cit s 3	20	52783176	7
Citrus sinensis	Navel orange	Unassigned	Food Plant	Citrus Cit s 1	25	52782810	7
Citrus sinensis	Navel orange	Unassigned	Food Plant	Citrus Cit s 2	131	261260074	11
Citrus sinensis	Navel orange	Unassigned	Food Plant	Citrus LTP Cit s 3	20	52783177	7
Citrus sinensis	Navel orange	Cit s 3	Food Plant	Citrus LTP Cit s 3	91	50199132	7
Cladosporium cladosporioides		Unassigned	Aero Fungi	Cladosporium Cla c 9 Davidiella	388	148361511	11
Cochliobolus lunatus		Unassigned	Aero Fungi	Cochliobolus (Curvularia) Cur l 3 * ver 10	108	20137645	8
Cochliobolus lunatus		Cur l 2.01	Aero Fungi	Cochliobolus (Curvularia) enolase Cur l 2.01	440	14585753	8
Coprinus comatus	Shaggy mane	Cop c 1	Food Fungi	Coprinus Cop c 1	81	4538529	7
Corylus avellana	hazelnut	Cor a 1.0103	Aero Plant	Corylus Cor a 1	160	22684	7
Corylus avellana	hazelnut	Cor a 1.0104	Aero Plant	Corylus Cor a 1	160	22686	7
Corylus avellana	hazelnut	Cor a 1.0102	Aero Plant	Corylus Cor a 1	160	22690	7
Corylus avellana	hazelnut	Cor a 1.0201	Aero Plant	Corylus Cor a 1	160	1321731	7
Corylus avellana	hazelnut	Cor a 1.0301	Aero Plant	Corylus Cor a 1	160	1321733	7
Corylus avellana	hazelnut	Cor a 1.0401	Food Plant	Corylus Cor a 1	161	5726304	7
Corylus avellana	hazelnut	Cor a l	Aero Plant	Corylus Cor a 1	160	584968	7
Corylus avellana	hazelnut	Cor a 1.0402	Food Plant	Corylus Cor a 1	161	11762102	7
Corylus avellana	hazelnut	Cor a 1.0403	Food Plant	Corylus Cor a 1	161	11762104	7
Corylus avellana	hazelnut	Cor a 1.0404	Food Plant	Corylus Cor a 1	161	11762106	7
Corylus avellana	hazelnut	Cor a 11	Food Plant	Corylus Cor a 11	448	19338630	7
Corylus avellana	European hazelnut	Unassigned	Food Plant	Corylus Cor a 14 2S albumin	147	226437844	11
Corylus avellana	hazelnut	Cor a 2	Aero Plant	Corylus Cor a 2	131	12659206	7
Corylus avellana	hazelnut	Cor a 2	Aero Plant	Corylus Cor a 2	131	12659208	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 21 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Corylus avellana	hazelnut	Cor a 8	Food Plant	Corylus Cor a 8	115	13507262	7
Corylus avellana	hazelnut	Cor a 9	Food Plant	Corylus Cor a 9	515	18479082	7
Corylus avellana	hazelnut	Unassigned	Food Plant	Corylus Oleosin	140	29170509	7
Crangon crangon		Unassigned	Food Animal	Crangon Cra c 1 tropomyosin	284	238477263	12
Crangon crangon		Unassigned	Food Animal	Crangon Cra c 2 arginine kinase	356	238477265	12
Crangon crangon		Unassigned	Food Animal	Crangon Cra c 4 sarcoplasmic calcium-binding prote	193	238477327	12
Crangon crangon		Unassigned	Food Animal	Crangon Cra c 5 myosin light chain	153	238477331	12
Crangon crangon		Unassigned	Food Animal	Crangon Cra c 6 troponin C	150	238477333	12
Crangon crangon		Unassigned	Food Animal	Crangon Cra c 8 triosephosphate isomerase	249	238477329	12
Crassostrea gigas	American oyster	Unassigned	Food Animal	Crassostrea Tropomyosin	233	15419048	7
Crassostrea gigas	American oyster	Unassigned	Food Animal	Crassostrea Tropomyosin	284	219806594	10
Crassostrea virginica	Eastern oyster	Unassigned	Food Animal	Crassostrea Tropomyosin	160	3668408	7
Crocus sativus	Saffron crocus	Unassigned	Aero Plant	Crocus profilin Cro s 2	131	58700651	7
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria class IV chitinase	281	56550550	7
Cryptomeria japonica	Japanese cedar	Cry j 1	Aero Plant	Cryptomeria Cry j 1	374	1173367	7
Cryptomeria japonica	Japanese cedar	Cry j 1	Aero Plant	Cryptomeria Cry j 1	374	19570315	7
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria Cry j 1	374	493634	8
Cryptomeria japonica	Japanese cedar	Cry j 2	Aero Plant	Cryptomeria Cry j 2	514	1171004	7
Cryptomeria japonica	Japanese cedar	Cry j 2	Aero Plant	Cryptomeria Cry j 2	514	24898904	7
Cryptomeria japonica	Japanese cedar	Cry j 2	Aero Plant	Cryptomeria Cry j 2	514	24898906	7
Cryptomeria japonica	Japanese cedar	Cry j 2	Aero Plant	Cryptomeria Cry j 2	514	24898908	7
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria Cry j 2	514	114841607	8
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria Cry j 2	514	114841617	8
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria Cry j 2	514	114841629	8

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 22 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria Cry j 2	514	114841635	8
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria Cry j 2	514	114841641	8
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria Cry j 2	514	114841653	8
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria Cry j 2	514	114841657	8
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria Cry j 2	514	114841663	8
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria Cry j 2	514	114841665	8
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria Cry j 2	514	114841671	8
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria Cry j 2	65	123299282	9
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria Isoflavone reductase-like protein	306	19847822	7
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria pollen allergen CJP-8	165	291621332	12
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria pollen allergen CPA63	472	293329689	12
Cryptomeria japonica	Japanese cedar	Unassigned	Aero Plant	Cryptomeria thaumatin like Cry j 3.8	225	139002766	8
Cucumis melo	Muskmelon	Unassigned	Food Plant	Cucumis Cuc m 1	731	71153243	9
Cucumis melo	Muskmelon	Cuc m 2	Food Plant	Cucumis Cuc m 2	131	31559374	7
Cucumis melo	Muskmelon	Cuc m 2	Food Plant	Cucumis Cuc m 2	131	58263793	7
Cucumis melo	Muskmelon	Cuc m 3	Food Plant	Cucumis Cuc m 3	21	46396596	7
Cucumis melo	Muskmelon	Cuc m 3	Food Plant	Cucumis Cuc m 3	10	46396597	7
Cucumis melo	Muskmelon	Cuc m 3	Food Plant	Cucumis Cuc m 3	10	46396598	7
Cucumis melo var. inodorus	Muskmelon	Unassigned	Food Plant	Cucumis Cuc m 3	151	171464770	9
Cucumis melo var. reticulatus	Netted muskmelon	Cuc m 2	Food Plant	Cucumis Cuc m 2	131	57021110	7
Cupressus arizonica	Arizona Cypress	Cup a 1	Aero Plant	Cupressus Cup a 1	367	19069497	7
Cupressus arizonica	Arizona Cypress	Unassigned	Aero Plant	Cupressus Cup a 1	347	118197955	8
Cupressus arizonica	Arizona Cypress	Unassigned	Aero Plant	Cupressus Cup a 1	346	9087167	9
Cupressus arizonica	Arizona Cypress	Unassigned	Aero Plant	Cupressus Cup s 3	199	9929163	7
Cupressus arizonica	Arizona Cypress	Unassigned	Aero Plant	Cupressus putative allergen Cup a 4	165	261865475	11
Cupressus sempervirens	Mediterranean Cypress	Cup s 1.0101	Aero Plant	Cupressus Cup a 1	367	8101711	7
Cupressus sempervirens	Mediterranean Cypress	Cup s 1.0102	Aero Plant	Cupressus Cup a 1	367	8101713	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 23 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Cupressus sempervirens	Mediterranean Cypress	Cup s 1.0103	Aero Plant	Cupressus Cup a 1	367	8101715	7
Cupressus sempervirens	Mediterranean Cypress	Cup s 1.0104	Aero Plant	Cupressus Cup a 1	367	8101717	7
Cupressus sempervirens	Mediterranean Cypress	Cup s 1.0105	Aero Plant	Cupressus Cup a 1	367	8101719	7
Cupressus sempervirens	Mediterranean Cypress	Unassigned	Aero Plant	Cupressus Cup s 3	225	38456230	7
Cupressus sempervirens	Mediterranean Cypress	Unassigned	Aero Plant	Cupressus Cup s 3	225	38456228	7
Cynodon dactylon	Bermuda grass	Cyn d 1	Aero Plant	Cynodon Cyn d 1	25	451274	7
Cynodon dactylon	Bermuda grass	Cyn d 1	Aero Plant	Cynodon Cyn d 1	38	451275	7
Cynodon dactylon	Bermuda grass	Cyn d 1	Aero Plant	Cynodon Cyn d 1	34	691726	7
Cynodon dactylon	Bermuda grass	Cyn d 1.0204	Aero Plant	Cynodon Cyn d 1	244	10314021	7
Cynodon dactylon	Bermuda grass	Cyn d 1	Aero Plant	Cynodon Cyn d 1	246	14423757	7
Cynodon dactylon	Bermuda grass	Cyn d 1.0201	Aero Plant	Cynodon Cyn d 1	244	15384338	7
Cynodon dactylon	Bermuda grass	Cyn d 1.0202	Aero Plant	Cynodon Cyn d 1	262	16076693	7
Cynodon dactylon	Bermuda grass	Cyn d 1	Aero Plant	Cynodon Cyn d 1	262	16076695	7
Cynodon dactylon	Bermuda grass	Cyn d 1.0203	Aero Plant	Cynodon Cyn d 1	262	16076697	7
Cynodon dactylon	Bermuda grass	Cyn d 12	Aero Plant	Cynodon Cyn d 12	131	2154730	7
Cynodon dactylon	Bermuda grass	Unassigned	Aero Plant	Cynodon Cyn d 7	71	1247373	7
Cynodon dactylon	Bermuda grass	Unassigned	Aero Plant	Cynodon Cyn d 7	73	1247375	7
Cynodon dactylon	Bermuda grass	Cyn d 7	Aero Plant	Cynodon Cyn d 7	82	1871507	7
Cyprinus carpio	Carp	Unassigned	Food Animal	Cyprinus Parvalbumin	109	17977825	7
Cyprinus carpio	Carp	Unassigned	Food Animal	Cyprinus Parvalbumin	109	17977827	7
Dactylis glomerata	Orchard grass	Dac g 1	Aero Plant	Dactylis Dac g 1	264	18093991	7
Dactylis glomerata	Orchard grass	Unassigned	Aero Plant	Dactylis Dac g 1	240	33149333	7
Dactylis glomerata	Orchard grass	Dac g 2	Aero Plant	Dactylis Dac g 2	196	1093120	7
Dactylis glomerata	Orchard grass	Dac g 2	Aero Plant	Dactylis Dac g 2	122	4007040	7
Dactylis glomerata	Orchard grass	Unassigned	Aero Plant	Dactylis Dac g 3	96	14423759	8
Dactylis glomerata	Orchard grass	Unassigned	Aero Plant	Dactylis Dac g 4	12	32363464	7
Dactylis glomerata	Orchard grass	Unassigned	Aero Plant	Dactylis Dac g 4	11	32363465	7
Dactylis glomerata	Orchard grass	Unassigned	Aero Plant	Dactylis Dac g 4	17	32363466	7
Dactylis glomerata	Orchard grass	Unassigned	Aero Plant	Dactylis Dac g 4	15	32363467	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 24 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Dactylis glomerata	Orchard grass	Dac g 5	Aero Plant	Dactylis Dac g 5	290	14423124	7
Dactylis glomerata	Orchard grass	Dac g 5	Aero Plant	Dactylis Dac g 5	265	18093971	7
Daucus carota	Carrot	Unassigned	Food Plant	Daucus cyclophilin	171	373939374	13
Daucus carota	Carrot	Dau c 1.0101	Food Plant	Daucus Dau c 1	168	1335877	7
Daucus carota	Carrot	Dau c 1.0102	Food Plant	Daucus Dau c 1	154	1663522	7
Daucus carota	Carrot	Dau c 1.0103	Food Plant	Daucus Dau c 1	154	2154732	7
Daucus carota	Carrot	Dau c 1.0104	Food Plant	Daucus Dau c 1	154	2154734	7
Daucus carota	Carrot	Dau c 1.0201	Food Plant	Daucus Dau c 1	154	18652047	7
Daucus carota	Carrot	Unassigned	Food Plant	Daucus Dau c 1	154	19912791	7
Daucus carota	Carrot	Dau c 1.0105	Food Plant	Daucus Dau c 1	154	8928058	9
Daucus carota	Carrot	Dau c 1.0301	Food Plant	Daucus Dau c 1	154	302379147	12
Daucus carota	Carrot	Unassigned	Food Plant	Daucus Dau c 1	154	302379149	12
Daucus carota	Carrot	Unassigned	Food Plant	Daucus Dau c 1	154	302379151	12
Daucus carota	Carrot	Unassigned	Food Plant	Daucus Dau c 1	154	302379153	12
Daucus carota	Carrot	Unassigned	Food Plant	Daucus Dau c 1	154	302379155	12
Daucus carota	Carrot	Unassigned	Food Plant	Daucus Dau c 1	154	302379157	12
Daucus carota	Carrot	Unassigned	Food Plant	Daucus Dau c 1	154	302379159	12
Daucus carota	Carrot	Unassigned	Food Plant	Daucus Dau c 4	134	47606043	10
Daucus carota	Carrot	Unassigned	Food Plant	Daucus Dau c 5 isoflavone reductase	306	373939378	13
Daucus carota	Carrot	Unassigned	Food Plant	Daucus Dau c 5 isoflavone reductase	306	373939376	13
Davidiella tassiana	Fungus	Unassigned	Aero Fungi	Cladosporium / Davidiella Cla h 10	496	108935817	8
Davidiella tassiana	Fungus	Cla h 5	Aero Fungi	Cladosporium / Davidiella Cla h 5	111	1173074	7
Davidiella tassiana	Fungus	Cla h 5	Aero Fungi	Cladosporium / Davidiella Cla h 5	111	21542440	7
Davidiella tassiana	Fungus	Cla h 6	Aero Fungi	Cladosporium / Davidiella Cla h 6	440	467660	7
Davidiella tassiana	Fungus	Cla h 6	Aero Fungi	Cladosporium / Davidiella Cla h 6	440	6015094	7
Davidiella tassiana	Fungus	Cla h 7	Aero Fungi	Cladosporium / Davidiella Cla h 7	204	1168970	7
Davidiella tassiana	Fungus	Unassigned	Aero Fungi	Cladosporium / Davidiella Cla h 8	267	85701146	7

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Davidiella tassiana	Fungus	Unassigned	Aero Fungi	Cladosporium / Davidiella Cla h 9 vacuolar serine	518	60116876	10
Davidiella tassiana	Fungus	Unassigned	Aero Fungi	Cladosporium / Davidiella Heat shock 70 kDa protei	643	729764	7
Davidiella tassiana	Fungus	Unassigned	Aero Fungi	Cladosporium / Davidiella Hydrophobin	105	22796153	7
Davidiella tassiana	Fungus	Unassigned	Aero Fungi	Cladosporium / Davidiella Putative nuclear transpo	125	21748151	7
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der f 13	131	99031759	7
Dermatophagoides farinae	House dust mite	Der f 16	Aero Mite	Dermatophagoides Der f 16	480	21591547	7
Dermatophagoides farinae	House dust mite	Der f 1	Aero Mite	Dermatophagoides Der p 1 Der f 1	321	730035	7
Dermatophagoides farinae	House dust mite	Der f 1	Aero Mite	Dermatophagoides Der p 1 Der f 1	321	27530349	7
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 1 Der f 1	276	76097507	7
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 1 Der f 1	321	156106765	9
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 1 Der f 1	263	37958161	12
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 1 Der f 1	305	387178006	13
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 10 / Der f 10	284	42559584	9
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 11 / Der f 11	692	42559514	9
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 14 / Der f 14	341	729979	7
Dermatophagoides farinae	House dust mite	Der f 14	Aero Mite	Dermatophagoides Der p 14 / Der f 14	349	1545803	7
Dermatophagoides farinae	House dust mite	Der f 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	138	217308	7
Dermatophagoides farinae	House dust mite	Der f 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	142	546852	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Dermatophagoides farinae	House dust mite	Der f 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	17978844	7
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	146	55859470	7
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	146	55859468	7
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	146	55859466	7
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	76097511	7
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	175	156480837	9
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	146	218203834	10
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	146	256631558	11
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	140	37958157	12
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	387178018	13
Dermatophagoides farinae	House dust mite	Der f 3	Aero Mite	Dermatophagoides Der p 3 / Der f 3	232	1314736	7
Dermatophagoides farinae	House dust mite	Der f 3	Aero Mite	Dermatophagoides Der p 3 / Der f 3	259	2507248	7
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 3 / Der f 3	259	163638970	9
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 3 / Der f 3	259	218203816	10
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 3 / Der f 3	259	218203818	10
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 6 / Der f 6	279	14424450	7
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 6 / Der f 6	20	404371	7
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 6 / Der f 6	279	218203826	10
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 6 / Der f 6	279	218203828	10
Dermatophagoides farinae	House dust mite	Der f 7	Aero Mite	Dermatophagoides Der p 7 / Der f 7	213	2498299	7

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 7 / Der f 7	213	37958165	8
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 7 / Der f 7	213	218203832	10
Dermatophagoides farinae	House dust mite	Der f 18	Aero Mite	Dermatophagoides farinae Der f 18 Der p chitinase	462	27550039	7
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides farinae Der f 21 Chew	136	60679572	9
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides farinae Der f 21 Chew	136	140089314	9
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides farinae Der f 21 Chew	136	140089316	9
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides farinae Der f 21 Chew	136	140089320	9
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides farinae Der f 21 Chew	136	140089322	9
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides farinae Der f 21 Chew	136	140089324	9
Dermatophagoides farinae	House dust mite	Unassigned	Aero Mite	Dermatophagoides farinae Der f 21 Chew	136	140089326	9
Dermatophagoides microceras	House dust mite	Der m 1	Aero Mite	Dermatophagoides Der p 1 Der f 1	30	127205	7
Dermatophagoides pteronyssinus	House dust mite	Der p 1	Aero Mite	Dermatophagoides Der p 1 Der f 1	320	730036	7
Dermatophagoides pteronyssinus	House dust mite	Der p 1	Aero Mite	Dermatophagoides Der p 1 Der f 1	222	21725560	7
Dermatophagoides pteronyssinus	House dust mite	Der p 1	Aero Mite	Dermatophagoides Der p 1 Der f 1	222	21725562	7
Dermatophagoides pteronyssinus	House dust mite	Der p 1	Aero Mite	Dermatophagoides Der p 1 Der f 1	222	21725564	7
Dermatophagoides pteronyssinus	House dust mite	Der p 1	Aero Mite	Dermatophagoides Der p 1 Der f 1	222	21725566	7
Dermatophagoides pteronyssinus	House dust mite	Der p 1	Aero Mite	Dermatophagoides Der p 1 Der f 1	222	21725568	7
Dermatophagoides pteronyssinus	House dust mite	Der p 1	Aero Mite	Dermatophagoides Der p 1 Der f 1	222	21725570	7
Dermatophagoides pteronyssinus	House dust mite	Der p 1	Aero Mite	Dermatophagoides Der p 1 Der f 1	222	21725572	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Dermatophagoides pteronyssinus	House dust mite	Der p 1	Aero Mite	Dermatophagoides Der p 1 Der f 1	222	21725574	7
Dermatophagoides pteronyssinus	House dust mite	Der p 1	Aero Mite	Dermatophagoides Der p 1 Der f 1	222	21725576	7
Dermatophagoides pteronyssinus	House dust mite	Der p 1	Aero Mite	Dermatophagoides Der p 1 Der f 1	222	21725578	7
Dermatophagoides pteronyssinus	House dust mite	Der p 1	Aero Mite	Dermatophagoides Der p 1 Der f 1	222	21725580	7
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 1 Der f 1	216	61608445	7
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 1 Der f 1	222	83754033	7
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 1 Der f 1	211	1460058	8
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 1 Der f 1	223	157696052	9
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 1 Der f 1	222	223365887	10
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 1 Der f 1	320	195933901	10
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 1 Der f 1	302	256095986	11
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 1 Der f 1	96	387592	11
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 1 Der f 1	304	387178004	13
Dermatophagoides pteronyssinus	House dust mite	Der p 10	Aero Mite	Dermatophagoides Der p 10 / Der f 10	284	2353266	7
Dermatophagoides pteronyssinus	House dust mite	Der p 10	Aero Mite	Dermatophagoides Der p 10 / Der f 10	284	2440053	7
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 10 / Der f 10	281	80553470	7
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 10 / Der f 10	284	208970286	10
Dermatophagoides pteronyssinus	House dust mite	Der p 11	Aero Mite	Dermatophagoides Der p 11 / Der f 11	875	37778944	7
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 13	131	302035350	12
Dermatophagoides pteronyssinus	House dust mite	Der p 14	Aero Mite	Dermatophagoides Der p 14 / Der f 14	1662	20385544	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Dermatophagoides pteronyssinus	House dust mite	Der p 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	146	1352237	7
Dermatophagoides pteronyssinus	House dust mite	Der p 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	21465915	7
Dermatophagoides pteronyssinus	House dust mite	Der p 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	21725582	7
Dermatophagoides pteronyssinus	House dust mite	Der p 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	21725584	7
Dermatophagoides pteronyssinus	House dust mite	Der p 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	21725586	7
Dermatophagoides pteronyssinus	House dust mite	Der p 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	21725588	7
Dermatophagoides pteronyssinus	House dust mite	Der p 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	21725590	7
Dermatophagoides pteronyssinus	House dust mite	Der p 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	21725592	7
Dermatophagoides pteronyssinus	House dust mite	Der p 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	21725594	7
Dermatophagoides pteronyssinus	House dust mite	Der p 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	21725596	7
Dermatophagoides pteronyssinus	House dust mite	Der p 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	21725600	7
Dermatophagoides pteronyssinus	House dust mite	Der p 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	21725602	7
Dermatophagoides pteronyssinus	House dust mite	Der p 2	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	21725604	7
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	76097509	7
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	146	99644635	7
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	130	110560872	9
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	157829757	9
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	145	164415595	9
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	256095984	11
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	387178014	13

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 30 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	129	387178008	13
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 21	140	85687540	7
Dermatophagoides pteronyssinus	House dust mite	Der p 3	Aero Mite	Dermatophagoides Der p 3 / Der f 3	261	511476	7
Dermatophagoides pteronyssinus	House dust mite	Der p 4	Aero Mite	Dermatophagoides Der p 4	496	5059162	7
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 4	19	1351935	7
Dermatophagoides pteronyssinus	House dust mite	Der p 5	Aero Mite	Dermatophagoides Der p 5	132	1352238	7
Dermatophagoides pteronyssinus	House dust mite	Der p 5	Aero Mite	Dermatophagoides Der p 5	132	913285	7
Dermatophagoides pteronyssinus	House dust mite	Der p 5	Aero Mite	Dermatophagoides Der p 5	132	28798085	7
Dermatophagoides pteronyssinus	House dust mite	Der p 6	Aero Mite	Dermatophagoides Der p 6 / Der f 6	20	1352239	7
Dermatophagoides pteronyssinus	House dust mite	Der p 7	Aero Mite	Dermatophagoides Der p 7 / Der f 7	215	10189811	7
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 7 / Der f 7	215	1352240	9
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 8	219	60920878	7
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 8	219	1170095	9
Dermatophagoides pteronyssinus	House dust mite	Unassigned	Aero Mite	Dermatophagoides farinae Der f 18 Der p chitinase	462	67975085	7
Dermatophagoides siboney	House dust mite	Unassigned	Aero Mite	Dermatophagoides Der p 2 / Der f 2	146	86450747	7
Dolichovespula arenaria	Yellow jacket	Dol a 5	Venom or Salivary	Dolichovespula Venom allergen 5	203	465052	7
Dolichovespula maculata	Whiteface hornet	Dol m 1	Venom or Salivary	Dolichovespula Dol m 1	317	548449	7
Dolichovespula maculata	Whiteface hornet	Dol m 1	Venom or Salivary	Dolichovespula Dol m 1	303	1709542	7
Dolichovespula maculata	Whiteface hornet	Dol m 2	Venom or Salivary	Dolichovespula Dol m 2	331	1346322	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 31 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Dolichovespula maculata	Whiteface hornet	Dol m 5	Venom or Salivary	Dolichovespula Venom allergen 5	227	137395	7
Dolichovespula maculata	Whiteface hornet	Dol m 5	Venom or Salivary	Dolichovespula Venom allergen 5	215	549186	7
Epicoccum nigrum	Fungus	Unassigned	Aero Fungi	Epicoccum Epi p 1	18	24636820	9
Equus caballus	Horse	Equ c 1	Aero Animal	Equus Equ c 1	187	3121758	7
Equus caballus	Horse	Equ c 2.0101	Aero Animal	Equus Equ c 2	29	3121755	7
Equus caballus	Horse	Equ c 2.0102	Aero Animal	Equus Equ c 2	19	3121756	7
Equus caballus	Horse	Unassigned	Aero Animal	Equus Equ c 3	607	543794	9
Equus caballus	Horse	Unassigned	Aero Animal	Equus Equ c 4	228	38258932	8
Equus caballus	Horse	Unassigned	Aero Animal	Equus Equ c 4	228	152031631	9
Erimacrus isenbeckii		Unassigned	Food Animal	Erimacrus tropomyosin	284	125995169	8
Erimacrus isenbeckii		Unassigned	Food Animal	Erimacrus tropomyosin	284	125995171	8
Euphausia pacifica		Unassigned	Food Animal	Euphausia	284	156712754	9
Euphausia superba		Unassigned	Food Animal	Euphausia	284	156712752	9
Euroglyphus maynei	House dust mite	Eur m 2.0102	Aero Mite	Euroglyphus Eur m 2	135	3941386	7
Euroglyphus maynei	House dust mite	Eur m 2	Aero Mite	Euroglyphus Eur m 2	145	14423649	7
Fagopyrum esculentum	Buckwheat	Unassigned	Food Plant	Fagopyrum BW 16kDa allergen	127	61970231	7
Fagopyrum esculentum	Buckwheat	Unassigned	Food Plant	Fagopyrum BW 16kDa allergen	149	83416591	7
Fagopyrum esculentum	Buckwheat	Unassigned	Food Plant	Fagopyrum BW 8 kDa protein	133	17907758	7
Fagopyrum esculentum	Buckwheat	Unassigned	Food Plant	Fagopyrum Legumin-like protein	565	29839254	9
Fagopyrum esculentum	Buckwheat	Unassigned	Food Plant	Fagopyrum Legumin-like protein	504	29839255	9
Fagopyrum esculentum	Buckwheat	Unassigned	Food Plant	Fagopyrum Legumin-like protein	538	29839419	9
Fagopyrum esculentum	Buckwheat	Unassigned	Food Plant	Fagopyrum vicilin-like protein	136	146217148	9
Fagopyrum gracilipes	Buckwheat	Unassigned	Food Plant	Fagopyrum Legumin-like protein	191	6979766	7
Fagopyrum tataricum	Buckwheat	Unassigned	Food Plant	Fagopyrum BW 16kDa allergen	149	320445237	12

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 32 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Fagopyrum tataricum	Buckwheat	Unassigned	Food Plant	Fagopyrum BW 8 kDa protein	133	144228127	8
Fagopyrum tataricum	Buckwheat	Unassigned	Food Plant	Fagopyrum Legumin-like protein	515	113200131	9
Fagus sylvatica	European Beech	Unassigned	Aero Plant	Fagus Fag s 1	160	212291472	10
Fagus sylvatica	European Beech	Fag s 1	Aero Plant	Fagus Fag s 1	160	212291470	10
Fagus sylvatica	European Beech	Unassigned	Aero Plant	Fagus Fag s 1	160	212291474	10
Farfantepenaeus aztecus	Brown shrimp	Pen a 1	Food Animal	Farfantepenaeus Pen a 1	284	73532979	7
Felis catus	Cat	Fel d 1	Aero Animal	Felis Fel d 1 Chain 1	88	1364212	7
Felis catus	Cat	Fel d 1	Aero Animal	Felis Fel d 1 Chain 1	92	1364213	7
Felis catus	Cat	Fel d 1	Aero Animal	Felis Fel d 1 Chain 1	92	1169665	7
Felis catus	Cat	Fel d 1	Aero Animal	Felis Fel d 1 Chain 1	92	163825	7
Felis catus	Cat	Unassigned	Aero Animal	Felis Fel d 1 Chain 1	88	114326420	8
Felis catus	Cat	Fel d 1	Aero Animal	Felis Fel d 1 chain 2	109	232086	7
Felis catus	Cat	Unassigned	Aero Animal	Felis Fel d 1 chain 2	107	395407	8
Felis catus	Cat	Unassigned	Aero Animal	Felis Fel d 2	608	1351908	9
Felis catus	Cat	Unassigned	Aero Animal	Felis Fel d 3	98	47605720	9
Felis catus	Cat	Unassigned	Aero Animal	Felis Fel d 4	186	75062228	8
Felis catus	Cat	Unassigned	Aero Animal	Felis Fel d 7 von Ebner gland protein	180	301072397	12
Felis catus	Cat	Unassigned	Aero Animal	Felis Fel d 8 latherin-like	228	303387468	12
Forcipomyia taiwana	biting midges	Unassigned	Venom or Salivary	Forcipomyia For t 1	118	188572341	10
Forcipomyia taiwana	biting midges	Unassigned	Venom or Salivary	Forcipomyia For t 2	325	188572343	10
Fragaria x ananassa	Strawberry	Fra a 1	Food Plant	Fragaria Fra a 1	14	60389904	7
Fragaria x ananassa	Strawberry	Fra a 1	Food Plant	Fragaria Fra a 1	74	60389905	7
Fragaria x ananassa	Strawberry	Fra a 1	Food Plant	Fragaria Fra a 1	160	90185692	7
Fragaria x ananassa	Strawberry	Fra a 1	Food Plant	Fragaria Fra a 1	159	90185688	7
Fragaria x ananassa	Strawberry	Fra a 1	Food Plant	Fragaria Fra a 1	160	90185684	7
Fragaria x ananassa	Strawberry	Fra a 1	Food Plant	Fragaria Fra a 1	160	90185682	7
Fragaria x ananassa	Strawberry	Fra a 1	Food Plant	Fragaria Fra a 1	160	88082485	7
Fraxinus excelsior	European ash	Fra e 1	Aero Plant	Fraxinus Fra e 1	146	34978692	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 33 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Fraxinus excelsior	European ash	Fra e 1	Aero Plant	Fraxinus Fra e 1	145	56122438	7
Fraxinus excelsior	European ash	Fra e 1	Aero Plant	Fraxinus Fra e 1	145	33327133	7
Fulvia mutica		Unassigned	Food Animal	Fulvia tropomyosin	284	219806596	10
Fusarium culmorum	Fungus	Unassigned	Aero Fungi	Fusarium claimed Fus c 3	450	25361513	7
Fusarium culmorum	Fungus	Unassigned	Aero Fungi	Fusarium Fus c 1	109	41688715	10
Fusarium culmorum	Fungus	Unassigned	Aero Fungi	Fusarium Fus c 2	121	52783462	9
Gadus callarias	Baltic cod	Gad c 1	Food Animal	Gadus Gad c 1	113	131112	7
Gadus morhua	Atlantic cod	Unassigned	Food Animal	Gadus Gad c 1	109	14531014	7
Gadus morhua	Atlantic cod	Unassigned	Food Animal	Gadus Gad c 1	109	14531016	7
Gadus morhua	Atlantic cod	Unassigned	Food Animal	Gadus Gad c 1	109	148356691	9
Gadus morhua	Atlantic cod	Unassigned	Food Animal	Gadus Gad c 1	109	148356693	9
Gallus gallus	Chicken	Gal d 1	Food Animal	Gallus Gal d 1	210	124757	7
Gallus gallus	Chicken	Unassigned	Food Animal	Gallus Gal d 1	208	162952006	9
Gallus gallus	Chicken	Unassigned	Food Animal	Gallus Gal d 1	210	209979542	10
Gallus gallus	Chicken	Gal d 2	Food Animal	Gallus Gal d 2	155	63052	7
Gallus gallus	Chicken	Gal d 2	Food Animal	Gallus Gal d 2	386	129293	7
Gallus gallus	Chicken	Gal d 2	Food Animal	Gallus Gal d 2	386	808969	7
Gallus gallus	Chicken	Gal d 2	Food Animal	Gallus Gal d 2	385	15826578	7
Gallus gallus	Chicken	Unassigned	Food Animal	Gallus Gal d 2	385	34811333	7
Gallus gallus	Chicken	Gal d 3	Food Animal	Gallus Gal d 3	705	757851	7
Gallus gallus	Chicken	Gal d 3	Food Animal	Gallus Gal d 3	705	1351295	7
Gallus gallus	Chicken	Gal d 4	Food Animal	Gallus Gal d 4	147	126608	7
Gallus gallus	Chicken	Gal d 4	Food Animal	Gallus Gal d 4	24	212279	7
Gallus gallus	Chicken	Unassigned	Food Animal	Gallus Gal d 5	615	113575	9
Gallus gallus	Chicken	Unassigned	Food Animal	Gallus parvalbumin	110	225877920	10
Gibberella zeae PH-1	Fungus	Unassigned	Aero Fungi	Gibberella 60S acidic ribosomal protein P2	109	46122455	7
Glossina morsitans morsitans	Tsetse fly	Unassigned	Venom or Salivary	Glossina Glo m 5	258	289740263	11
Glossina morsitans morsitans	Tsetse fly	Unassigned	Venom or Salivary	Glossina Glo m 5	259	289742475	11
Glossina morsitans morsitans	Tsetse fly	Unassigned	Venom or Salivary	Glossina Glo m 5	222	289742483	11

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Glossina morsitans morsitans	Tsetse fly	Unassigned	Venom or Salivary	Glossina Glo m 5	259	8927462	11
Glycine max	Soybean	Unassigned	Food Plant	Gly m 5 Glycine Beta-conglycinin	605	18536	7
Glycine max	Soybean	Unassigned	Food Plant	Gly m 5 Glycine Beta-conglycinin	218	169927	7
Glycine max	Soybean	Unassigned	Food Plant	Gly m 5 Glycine Beta-conglycinin	639	169929	7
Glycine max	Soybean	Unassigned	Food Plant	Gly m 5 Glycine Beta-conglycinin	439	256427	7
Glycine max	Soybean	Gly m 1.0101	Aero Plant	Glycine Gly m 1	42	999355	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Gly m 1	134	76782247	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Gly m 1	119	76782249	7
Glycine max	Soybean	Gly m 2	Aero Plant	Glycine Gly m 2	20	1362049	7
Glycine max	Soybean	Gly m 3	Food Plant	Glycine Gly m 3	131	3021373	7
Glycine max	Soybean	Gly m 3	Food Plant	Glycine Gly m 3	131	3914435	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Gly m 3	131	156938901	9
Glycine max	Soybean	Unassigned	Food Plant	Glycine Gly m 4	158	134194	9
Glycine max	Soybean	Unassigned	Food Plant	Glycine Gly m Bd 28K	473	12697782	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Gly m Bd 28K	373	187766751	10
Glycine max	Soybean	Unassigned	Food Plant	Glycine Gly m Bd 28K	373	187766749	10
Glycine max	Soybean	Unassigned	Food Plant	Glycine Gly m Bd 28K	373	187766747	10
Glycine max	Soybean	Unassigned	Food Plant	Glycine Gly m Bd 28K	455	187766755	10
Glycine max	Soybean	Unassigned	Food Plant	Glycine Gly m Bd 30 kDa	379	129353	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Gly m Bd 30 kDa	379	1199563	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Gly m Bd 30 kDa	379	3097321	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Glycinin G1	495	18615	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Glycinin G1	495	18635	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Glycinin G2	485	18609	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Glycinin G2	485	18637	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Glycinin G3	481	18639	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Glycinin G4	562	18641	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 35 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Glycine max	Soybean	Unassigned	Food Plant	Glycine Glycinin G4	562	732706	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Glycinin G5	516	169969	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Glycinin G5	240	169971	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Major Gly 50 kDa allergen	17	85681057	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Trypsin inhibitor	217	18770	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Trypsin inhibitor	217	18772	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Trypsin inhibitor	216	256429	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Trypsin inhibitor	203	256635	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Trypsin inhibitor	204	256636	7
Glycine max	Soybean	Unassigned	Food Plant	Glycine Trypsin inhibitor	208	510515	7
Glycine soja	Soybean	Unassigned	Food Plant	Glycine Glycinin G4	563	806556	7
Glycine soja	Soybean	Unassigned	Food Plant	Glycine Glycinin G5	517	736002	7
Glycyphagus domesticus	Storage mite	Unassigned	Aero Mite	Glycyphagus Gly d 2	141	33772588	7
Glycyphagus domesticus	Storage mite	Unassigned	Aero Mite	Glycyphagus Gly d 2	125	48428170	9
Glycyphagus domesticus	Storage mite	Unassigned	Aero Mite	Glycyphagus Gly d 2	128	48428178	9
Haliotis discus discus	Disk abalone	Unassigned	Food Animal	Haliotis Hal m 1 tropomyosin	284	219806586	10
Haliotis discus discus	Disk abalone	Unassigned	Food Animal	Haliotis paramyosin	860	318609972	12
Haliotis diversicolor	Abalone	Unassigned	Food Animal	Haliotis Hal m 1 tropomyosin	284	9954249	7
Helianthus annuus	Sunflower	Hel a 2	Aero Plant	Helianthus Hel a 2	133	3581965	7
Helianthus annuus	Sunflower	Unassigned	Food Plant	Helianthus Seed 2S albumin	141	112745	9
Helix aspersa	Brown garden snail	Unassigned	Food Animal	Helix Hel as 1 tropomyosin	284	42559558	9
Hevea brasiliensis	Para rubber tree	Hev b 1	Contact	Hevea Hev b 1	138	132270	7
Hevea brasiliensis	Para rubber tree	Hev b 10.0101	Contact	Hevea Hev b 10	233	348137	7
Hevea brasiliensis	Para rubber tree	Hev b 10.0102	Contact	Hevea Hev b 10	205	5777414	7
Hevea brasiliensis	Para rubber tree	Hev b 10.0103	Contact	Hevea Hev b 10	205	10862818	7

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Hevea brasiliensis	Para rubber tree	Hev b 11	Contact	Hevea Hev b 11	295	14575525	7
Hevea brasiliensis	Para rubber tree	Hev b 12	Contact	Hevea Hev b 12	116	20135538	7
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 13 Hevea Hev b 14	391	51315784	9
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	hevamine	208	313870530	12
Hevea brasiliensis	Para rubber tree	Hev b 2	Contact	Hevea Hev b 2	374	1184668	7
Hevea brasiliensis	Para rubber tree	Hev b 2	Contact	Hevea Hev b 2	374	32765543	7
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 2	374	124294783	8
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 2	374	124294785	8
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 2	374	124365249	8
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 2	374	124365251	8
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 2	374	124365253	8
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 2	316	261824817	11
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 2	374	268037674	11
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 2	374	270315180	11
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 2	373	359359690	13
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 2	374	387778882	13
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 2	374	387778880	13
Hevea brasiliensis	Para rubber tree	Hev b 3	Contact	Hevea Hev b 3	204	14423933	7
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 4	366	46410859	7
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 5	151	7387766	8
Hevea brasiliensis	Para rubber tree	Hev b 6	Contact	Hevea Hev b 6	204	123062	7
Hevea brasiliensis	Para rubber tree	Hev b 6	Contact	Hevea Hev b 6	187	2832430	7
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 6	43	73535415	7
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 6	204	158342650	9
Hevea brasiliensis	Para rubber tree	Hev b 7.01	Contact	Hevea Hev b 7	388	1916805	7
Hevea brasiliensis	Para rubber tree	Hev b 7.02	Contact	Hevea Hev b 7	388	3087805	7
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 7	388	3288200	7
Hevea brasiliensis	Para rubber tree	Hev b 7	Contact	Hevea Hev b 7	388	6707018	7
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 7	387	41581137	7
Hevea brasiliensis	Para rubber tree	Hev b 8	Contact	Hevea Hev b 8	131	3183706	7
Hevea brasiliensis	Para rubber tree	Hev b 8	Contact	Hevea Hev b 8	131	11513601	7
Hevea brasiliensis	Para rubber tree	Hev b 8.0204	Contact	Hevea Hev b 8	131	14423856	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 37 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Hevea brasiliensis	Para rubber tree	Hev b 8.0203	Contact	Hevea Hev b 8	131	14423858	7
Hevea brasiliensis	Para rubber tree	Hev b 8.0202	Contact	Hevea Hev b 8	131	14423859	7
Hevea brasiliensis	Para rubber tree	Hev b 8.0201	Contact	Hevea Hev b 8	131	14423860	7
Hevea brasiliensis	Para rubber tree	Hev b 8.0102	Contact	Hevea Hev b 8	131	14423868	7
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 9	445	14423687	9
Hevea brasiliensis	Para rubber tree	Unassigned	Contact	Hevea Hev b 9	445	14423688	9
Hevea brasiliensis subsp. brasiliensis	Para rubber tree	Hev b 11	Contact	Hevea Hev b 11	295	27526732	7
Holcus lanatus	Velvet grass	Unassigned	Aero Plant	Holcus group V	240	2266623	7
Holcus lanatus	Velvet grass	Unassigned	Aero Plant	Holcus group V	264	2266625	7
Holcus lanatus	Velvet grass	Unassigned	Aero Plant	Holcus group V	296	11991229	7
Holcus lanatus	Velvet grass	Hol I 1.0102	Aero Plant	Holcus Hol I 1	248	1167836	7
Holcus lanatus	Velvet grass	Unassigned	Aero Plant	Holcus Hol I 1	263	3860384	7
Holcus lanatus	Velvet grass	Unassigned	Aero Plant	Holcus Hol I 1	265	1171005	9
Homarus americanus	American lobster	Unassigned	Food Animal	Homarus Tropomyosin	284	2660868	7
Homarus americanus	American lobster	Unassigned	Food Animal	Homarus Tropomyosin	284	14285796	7
Hordeum vulgare	Barley	Unassigned	Aero Plant	Hordeum Alpha-amylase inhibitor component CMb	149	585290	7
Hordeum vulgare	Barley	Hor v 15	Aero Plant	Hordeum Hor v 15	146	2506771	7
Hordeum vulgare	Barley	Unassigned	Food Plant	Hordeum LTP 1	134	19039	7
Hordeum vulgare	Barley	Unassigned	Aero Plant	Hordeum LTP 1	117	167077	7
Hordeum vulgare	Barley	Unassigned	Aero Plant	Hordeum Trypsin inhibitor CMe	144	1405736	7
Hordeum vulgare subsp. vulgare	Barley	Unassigned	Aero Plant	Hordeum Alpha-amylase inhibitor BDAI-1	152	3367714	7
Hordeum vulgare subsp. vulgare	Barley	Unassigned	Aero Plant	Hordeum Alpha-amylase inhibitor component Cma	144	18955	7
Hordeum vulgare subsp. vulgare	Barley	Unassigned	Aero Plant	Hordeum Alpha-amylase inhibitor component Cma	145	439275	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 38 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Hordeum vulgare subsp. vulgare	Barley	Unassigned	Aero Plant	Hordeum Trypsin inhibitor CMe	148	19009	7
Humulus japonicus	Japanese hop	Hum j 1	Aero Plant	Humulus Humj1	155	33113263	7
Humulus scandens	Japanese hop	Unassigned	Aero Plant	Humulus profilin-like protein	131	34851176	7
Humulus scandens	Japanese hop	Unassigned	Aero Plant	Humulus profilin-like protein	131	34851174	7
Juglans nigra	Black walnut	Jug n 1	Food Plant	Juglans Jug r 1	161	31321942	7
Juglans nigra	Black walnut	Jug n 2	Food Plant	Juglans Jug r 2	481	31321944	7
Juglans regia	English walnut	Jug r 1	Food Plant	Juglans Jug r 1	139	1794252	7
Juglans regia	English walnut	Jug r 2	Food Plant	Juglans Jug r 2	593	6580762	7
Juglans regia	English walnut	Unassigned	Food Plant	Juglans Jug r 3	119	209484145	11
Juglans regia	English walnut	Unassigned	Food Plant	Juglans Jug r 4 seed storage protein	507	56788031	7
Juniperus ashei	Mountain cedar	Unassigned	Aero Plant	Juniperus Jun a 2	507	47606048	9
Juniperus ashei	Mountain cedar	Unassigned	Aero Plant	Juniperus Jun a 3	225	9087177	8
Juniperus ashei	Mountain cedar	Unassigned	Aero Plant	Juniperus Jun a/v 1	367	9087152	9
Juniperus oxycedrus	Juniper	Unassigned	Aero Plant	Juniperus Jun a/v 1	367	15139849	7
Juniperus oxycedrus	Juniper	Unassigned	Aero Plant	Juniperus Jun o 4	165	14423843	8
Juniperus rigida	Cedar	Unassigned	Aero Plant	Juniperus Jun a 3	225	38456224	7
Juniperus rigida	Cedar	Unassigned	Aero Plant	Juniperus Jun a 3	225	38456222	7
Juniperus virginiana	Red cedar	Unassigned	Aero Plant	Juniperus Jun a 3	110	51316532	7
Juniperus virginiana	Red cedar	Jun v 1	Aero Plant	Juniperus Jun a/v 1	367	8843917	7
Juniperus virginiana	Red cedar	Jun v 1	Aero Plant	Juniperus Jun a/v 1	367	8843921	7
Lens culinaris	Lentil	Len c 1.0101	Food Plant	Lens Len c 1	418	29539109	7
Lens culinaris	Lentil	Len c 1.0102	Food Plant	Lens Len c 1	415	29539111	7
Lepidoglyphus destructor	Storage mite	Lep d 10	Aero Mite	Lepidoglyphus Lep d 10	284	14423956	7
Lepidoglyphus destructor	Storage mite	Lep d 13	Aero Mite	Lepidoglyphus Lep d 13	131	14423714	7
Lepidoglyphus destructor	Storage mite	Lep d 2	Aero Mite	Lepidoglyphus Lep d 2	141	2147108	7
Lepidoglyphus destructor	Storage mite	Lep d 2	Aero Mite	Lepidoglyphus Lep d 2	141	21213898	7
Lepidoglyphus destructor	Storage mite	Lep d 2	Aero Mite	Lepidoglyphus Lep d 2	141	21213900	7
Lepidoglyphus destructor	Storage mite	Lep d 2	Aero Mite	Lepidoglyphus Lep d 2	141	1582223	7
Lepidoglyphus destructor	Storage mite	Lep d 2	Aero Mite	Lepidoglyphus Lep d 2	141	1582222	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 39 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Lepidoglyphus destructor	Storage mite	Unassigned	Aero Mite	Lepidoglyphus Lep d 2	141	34495274	7
Lepidoglyphus destructor	Storage mite	Unassigned	Aero Mite	Lepidoglyphus Lep d 2	141	34495278	7
Lepidoglyphus destructor	Storage mite	Unassigned	Aero Mite	Lepidoglyphus Lep d 2	140	34495280	7
Lepidoglyphus destructor	Storage mite	Unassigned	Aero Mite	Lepidoglyphus Lep d 2	141	34495282	7
Lepidoglyphus destructor	Storage mite	Unassigned	Aero Mite	Lepidoglyphus Lep d 2	141	34495284	7
Lepidoglyphus destructor	Storage mite	Unassigned	Aero Mite	Lepidoglyphus Lep d 2	141	34495286	7
Lepidoglyphus destructor	Storage mite	Unassigned	Aero Mite	Lepidoglyphus Lep d 2	141	34495288	7
Lepidoglyphus destructor	Storage mite	Unassigned	Aero Mite	Lepidoglyphus Lep d 2	141	34495290	7
Lepidoglyphus destructor	Storage mite	Unassigned	Aero Mite	Lepidoglyphus Lep d 2	141	1708793	9
Lepidoglyphus destructor	Storage mite	Lep d 5	Aero Mite	Lepidoglyphus Lep d 5	110	14423651	7
Lepidoglyphus destructor	Storage mite	Unassigned	Aero Mite	Lepidoglyphus Lep d 5	171	34495292	7
Lepidoglyphus destructor	Storage mite	Unassigned	Aero Mite	Lepidoglyphus Lep d 5	169	34495294	7
Lepidoglyphus destructor	Storage mite	Lep d 7	Aero Mite	Lepidoglyphus Lep d 7	216	14423650	7
Lepidorhombus whiffiagonis		Unassigned	Food Animal	Lepidorhombus Lep w 1 parvalbumin	109	208608078	10
Lepisma saccharina	Silverfish	Lep s 1	Aero Insect	Lepisma Tropomyosin	284	20387027	7
Lepisma saccharina	Silverfish	Unassigned	Aero Insect	Lepisma Tropomyosin	243	20387029	7
Ligustrum vulgare	Privet	Lig v 1.0102	Aero Plant	Ligustrum Lig v 1	145	3256212	7
Ligustrum vulgare	Privet	Unassigned	Aero Plant	Ligustrum Lig v 1	145	14423737	8
Lilium longiflorum	Trumpet lily	Unassigned	Aero Plant	Lilium polygalacturonase	413	73913442	8
Litchi chinensis	Lychee nut	Lit c 1	Food Plant	Litchi Lit c 1	131	15809696	7
Litchi chinensis	Lychee nut	Unassigned	Food Plant	Litchi Lit c 1	131	83317152	7
Litopenaeus vannamei		Unassigned	Food Animal	Litopenaeus Lit v 4 sarcoplasmic Ca+ binding	193	223403273	11
Litopenaeus vannamei		Unassigned	Food Animal	Litopenaeus Lit v 1 tropomyosin	284	170791252	10
Litopenaeus vannamei		Unassigned	Food Animal	Litopenaeus Lit v 2 Litopenaeus Lit v 3	356	115492980	8
Litopenaeus vannamei		Unassigned	Food Animal	myosin	177	184198734	10
Lolium perenne	ryegrass	Lol p 1	Aero Plant	Lolium Lol p 1	263	126385	7
Lolium perenne	ryegrass	Lol p 1	Aero Plant	Lolium Lol p 1	252	168314	7
Lolium perenne	ryegrass	Lol p 1	Aero Plant	Lolium Lol p 1	263	75274600	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 40 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Lolium perenne	ryegrass	Unassigned	Aero Plant	Lolium Lol p 1	263	168316	10
Lolium perenne	ryegrass	Lol p 11	Aero Plant	Lolium Lol p 11	134	47605808	7
Lolium perenne	ryegrass	Lol p 2	Aero Plant	Lolium Lol p 2	97	126386	7
Lolium perenne	ryegrass	Lol p 2	Aero Plant	Lolium Lol p 2	88	939932	7
Lolium perenne	ryegrass	Lol p 3	Aero Plant	Lolium Lol p 3	97	126387	7
Lolium perenne	ryegrass	Unassigned	Aero Plant	Lolium Lol p 4	423	55859464	7
Lolium perenne	ryegrass	Lol p 5.0101	Aero Plant	Lolium Lol p 5 *ver 10	339	2498582	7
Lolium perenne	ryegrass	Lol p 5	Aero Plant	Lolium Lol p 5 *ver 10	301	4416516	7
Lolium perenne	ryegrass	Lol p 5	Aero Plant	Lolium Lol p 5 *ver 10	301	6634467	7
Lolium perenne	ryegrass	Unassigned	Aero Plant	Lolium Lol p 5 *ver 10	307	332278195	12
Lupinus angustifolius		Unassigned	Food Plant	Lupinus conglutin beta	521	149208401	9
Lupinus angustifolius		Unassigned	Food Plant	Lupinus conglutin beta	455	149208403	9
Lupinus angustifolius		Unassigned	Food Plant	Lupinus conglutin beta	611	169950562	10
Lycium barbarum	wolfberry	Unassigned	Food Plant	Lycium ltp	51	363805423	13
Lycopersicon esculentum	Tomato	Lyc e 1	Food Plant	Lycopersicon Lyc e 1	131	16555787	7
Lycopersicon esculentum	Tomato	Lyc e 1	Food Plant	Lycopersicon Lyc e 1	131	17224229	7
Lycopersicon esculentum	Tomato	Lyc e 2.0101	Food Plant	Lycopersicon Lyc e 2	553	18542113	7
Lycopersicon esculentum	Tomato	Lyc e 2.0102	Food Plant	Lycopersicon Lyc e 2	636	18542115	7
Lycopersicon esculentum	Tomato	Unassigned	Food Plant	Lycopersicon Lyc e 3	114	71360928	7
Lycopersicon esculentum	Tomato	Unassigned	Food Plant	Lycopersicon Lyc e 3	114	71360930	7
Macrobrachium rosenbergii		Unassigned	Food Animal	Macrobrachium rosenbergii shrimp tropomyosin	284	288819271	11
Malassezia furfur	Yeast	Unassigned	Contact	Malassezia Mala f 2	177	3914386	8
Malassezia furfur	Yeast	Unassigned	Contact	Malassezia Mala f 3	166	3914387	8
Malassezia furfur	Yeast	Mala f 4	Contact	Malassezia Mala f 4	342	4587985	7
Malassezia furfur	Yeast	Unassigned	Contact	Malassezia Mala s 1	350	13959403	7
Malassezia sympodialis	Yeast	Mala s 11	Contact	Malassezia Mala s 11	237	28569698	7
Malassezia sympodialis	Yeast	Unassigned	Contact	Malassezia Mala s 12	618	78038796	7
Malassezia sympodialis	Yeast	Unassigned	Contact	Malassezia Mala s 13			
Malassezia sympodialis	Yeast	Unassigned	Contact	Thioredoxin Rev	121	119390336	8
Malassezia sympodialis	Yeast	Mala s 5	Contact	Malassezia Mala s 5	172	4138171	7
Malassezia sympodialis	Yeast	Mala s 6	Contact	Malassezia Mala s 6	162	4138173	7

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Malassezia sympodialis	Yeast	Mala s 7	Contact	Malassezia Mala s 7	187	4138175	7
Malassezia sympodialis	Yeast	Mala s 8	Contact	Malassezia Mala s 8	179	7271239	7
Malassezia sympodialis	Yeast	Mala s 9	Contact	Malassezia Mala s 9	342	19069920	7
Malus x domestica	Apple	Mal d 1	Food Plant	Malus Mal d 1	159	1313966	7
Malus x domestica	Apple	Mal d 1	Food Plant	Malus Mal d 1	159	4590364	7
Malus x domestica	Apple	Mal d 1	Food Plant	Malus Mal d 1	159	4590366	7
Malus x domestica	Apple	Mal d 1	Food Plant	Malus Mal d 1	159	4590368	7
Malus x domestica	Apple	Mal d 1	Food Plant	Malus Mal d 1	159	4590376	7
Malus x domestica	Apple	Mal d 1	Food Plant	Malus Mal d 1	159	4590378	7
Malus x domestica	Apple	Mal d 1	Food Plant	Malus Mal d 1	159	4590380	7
Malus x domestica	Apple	Mal d 1	Food Plant	Malus Mal d 1	159	4590382	7
Malus x domestica	Apple	Mal d 1	Food Plant	Malus Mal d 1	159	4590388	7
Malus x domestica	Apple	Mal d 1	Food Plant	Malus Mal d 1	159	16555783	7
Malus x domestica	Apple	Mal d 1	Food Plant	Malus Mal d 1	159	27922941	7
Malus x domestica	Apple	Mal d 1	Food Plant	Malus Mal d 1	159	1346478	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 1	159	60280829	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 1	159	60280851	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 1	159	42558971	9
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 1	159	75306008	11
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 1	159	75306007	11
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 1	159	886683	11
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 2	26	1478293	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 2	246	60418842	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 2	246	60418848	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 2	246	30316292	8
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 2	158	218059718	10
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 2	158	218059715	10
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 2	193	392507603	13
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 3	115	50659891	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 3	115	50659889	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 3	115	50659885	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 3	115	50659879	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 3	115	50659859	7

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 3	115	38492338	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 3	115	14423814	9
Malus x domestica	Apple	Mal d 4	Food Plant	Malus Mal d 4	131	14423873	7
Malus x domestica	Apple	Mal d 4	Food Plant	Malus Mal d 4	131	14423874	7
Malus x domestica	Apple	Mal d 4	Food Plant	Malus Mal d 4	131	14423875	7
Malus x domestica	Apple	Mal d 4	Food Plant	Malus Mal d 4	131	28881453	7
Malus x domestica	Apple	Mal d 4	Food Plant	Malus Mal d 4	131	28881457	7
Malus x domestica	Apple	Mal d 4	Food Plant	Malus Mal d 4	131	28881455	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 4	131	60418854	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 4	131	60418858	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 4	131	60418862	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 4	131	60418866	7
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 4	131	164510842	9
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 4	131	164510858	9
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 4	131	164510860	9
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 4	77	218059730	10
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 4	115	218059733	10
Malus x domestica	Apple	Unassigned	Food Plant	Malus Mal d 4	131	218059728	10
Marsupenaeus japonicus		Unassigned	Food Animal	Marsupenaeus tropomyosin	284	125995159	8
Mercurialis annua	Annual mercury grass	Mer a 1	Aero Plant	Mercurialis Mer a 1	133	2959898	7
Metapenaeus ensis	Greasyback shrimp	Unassigned	Food Animal	Metapenaeus Met e 1 Tropomyosin	274	6094504	9
Mimachlamys nobilis	Noble scallop	Unassigned	Food Animal	Mimachlamys Tropomyosin	284	9954253	7
Morus nigra	Black mulberry	Unassigned	Food Plant	Morus Mor n 3 mulberry LTP	91	288561913	11
Mus musculus	Mouse	Mus m 1	Aero Animal	Mus Mus m 1	180	20178291	7
Musa acuminata	Banana	Mus xp 1	Food Plant	Musa profilin banana	131	14161635	7
Myrmecia pilosula	Jumper ant	Myr p 1	Venom or Salivary	Myrmecia Myr p 1	112	730091	7
Myrmecia pilosula	Jumper ant	Unassigned	Venom or Salivary	Myrmecia Myr p 1	112	1911819	7

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Myrmecia pilosula	Jumper ant	Myr p 2	Venom or Salivary	Myrmecia Myr p 2	75	1587177	7
Myrmecia pilosula	Jumper ant	Myr p 2	Venom or Salivary	Myrmecia Myr p 2	75	2498604	7
Neptunea polycostata		Unassigned	Food Animal	Neptunea tropomyosin	284	219806590	10
Nicotiana tabacum	Tobacco	Unassigned	Aero Plant	Nicotiana villin	520	57283139	7
Nicotiana tabacum	Tobacco	Unassigned	Aero Plant	Nicotiana villin	559	57283137	7
Octopus vulgaris		Unassigned	Food Animal	Octopus tropomyosin	284	83715936	7
Olea europaea	Olive tree	Ole e 1	Aero Plant	Olea Ole e 1	145	14424429	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	137	1362128	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	136	1362129	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	136	1362130	7
Olea europaea	Olive tree	Ole e 1.0104	Aero Plant	Olea Ole e 1	145	1362131	7
Olea europaea	Olive tree	Ole e 1	Aero Plant	Olea Ole e 1	137	1362132	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	136	1362133	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	136	1362134	7
Olea europaea	Olive tree	Ole e 1.0102	Aero Plant	Olea Ole e 1	145	1362135	7
Olea europaea	Olive tree	Ole e 1.0103	Aero Plant	Olea Ole e 1	145	1362136	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	136	1362137	7
Olea europaea	Olive tree	Ole e 1.0105	Aero Plant	Olea Ole e 1	146	2465127	7
Olea europaea	Olive tree	Ole e 1.0106	Aero Plant	Olea Ole e 1	146	2465129	7
Olea europaea	Olive tree	Ole e 1.0107	Aero Plant	Olea Ole e 1	146	2465131	7
Olea europaea	Olive tree	Ole e 1.0101	Aero Plant	Olea Ole e 1	130	13195753	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	134	37724597	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	135	37724593	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	132	37548753	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	131	33329758	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	132	33329756	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	132	33329754	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	131	33329752	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	131	33329750	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	129	33329748	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	131	33329744	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	132	33329738	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	132	33329732	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	132	33325115	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	140	145313982	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	140	145313984	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	140	145313988	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	140	145313990	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 1	140	145313992	9
Olea europaea	Olive tree	Ole e 10	Aero Plant	Olea Ole e 10	123	29465664	7
Olea europaea	Olive tree	Ole e 11.0102	Aero Plant	Olea Ole e 11.0101 and 0102	364	68270856	11
Olea europaea	Olive tree	Ole e 11.0101	Aero Plant	Olea Ole e 11.0101 and 0102	364	269996495	11
Olea europaea	Olive tree	Unassigned	Food Plant	Olea Ole e 13 thaumatin	226	269996497	12
Olea europaea	Olive tree	Ole e 2	Aero Plant	Olea Ole e 2	134	3914426	7
Olea europaea	Olive tree	Ole e 2	Aero Plant	Olea Ole e 2	134	3914427	7
Olea europaea	Olive tree	Ole e 2	Aero Plant	Olea Ole e 2	134	3914428	7
Olea europaea	Olive tree	Ole e 3	Aero Plant	Olea Ole e 3	84	3337403	7
Olea europaea	Olive tree	Ole e 3	Aero Plant	Olea Ole e 3	52	37725377	7
Olea europaea	Olive tree	Ole e 5	Aero Plant	Olea Ole e 5	30	122064581	8
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	145313972	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160347106	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	144	160347108	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160347112	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160347120	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160347122	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160347124	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160347126	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160347130	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160347134	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160347138	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160962543	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160962547	9

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 45 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160962557	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160962577	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160962583	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	144	160962587	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160962591	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160962597	9
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 5	152	160962611	9
Olea europaea	Olive tree	Ole e 6	Aero Plant	Olea Ole e 6	50	14423643	7
Olea europaea	Olive tree	Ole e 7	Aero Plant	Olea Ole e 7	21	22002032	7
Olea europaea	Olive tree	Ole e 8	Aero Plant	Olea Ole e 8	171	6901654	7
Olea europaea	Olive tree	Ole e 8	Aero Plant	Olea Ole e 8	171	14423648	7
Olea europaea	Olive tree	Ole e 9	Aero Plant	Olea Ole e 9	460	14279169	7
Olea europaea	Olive tree	Unassigned	Aero Plant	Olea Ole e 9	101	166235350	9
Ommastrephes bartramii		Unassigned	Food Animal	Ommastrephes tropomyosin	284	83715934	7
Onchocerca volvulus	Parasitic nematode	Unassigned	Worm (parasite)	Onchocerca tropomyosin	284	42559586	12
Oncorhynchus mykiss		Unassigned	Food Animal	Oncorhynchus Rainbow trout parv Onc m 1	108	288559139	11
Oncorhynchus mykiss		Unassigned	Food Animal	Oncorhynchus Rainbow trout parv Onc m 1	107	288559140	11
Oratosquilla oratoria		Unassigned	Food Animal	Oratosquilla tropomyosin	284	162286975	9
Oryza sativa	Rice	Unassigned	Food Plant	Oryza Glyoxalase I	291	84029333	7
Oryza sativa	Rice	Ory s 1	Aero Plant	Oryza Ory s 1	263	1173557	8
Oryza sativa	Rice	Unassigned	Aero Plant	Oryza Ory s 1	267	8118439	7
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Glyoxalase I	291	16580747	7
Oryza sativa (japonica cultivar-group)	Rice	Ory s 1	Aero Plant	Oryza Ory s 1	267	109913547	8
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Trypsin alpha-amylase inhibitor	157	23616954	8
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Trypsin alpha-amylase inhibitor	165	218193	7

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Trypsin alpha-amylase inhibitor	157	218197	7
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Trypsin alpha-amylase inhibitor	111	1304216	7
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Trypsin alpha-amylase inhibitor	109	1304217	7
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Trypsin alpha-amylase inhibitor	113	1304218	7
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Trypsin alpha-amylase inhibitor	166	1398913	7
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Trypsin alpha-amylase inhibitor	160	1398915	7
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Trypsin alpha-amylase inhibitor	157	1398916	7
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Trypsin alpha-amylase inhibitor	160	1398918	7
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Trypsin alpha-amylase inhibitor	157	2827316	7
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Trypsin alpha-amylase inhibitor	166	114152865	8
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Trypsin alpha-amylase inhibitor	163	114152864	8
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Trypsin alpha-amylase inhibitor	160	23495787	8
Oryza sativa (japonica cultivar-group)	Rice	Unassigned	Food Plant	Oryza Trypsin alpha-amylase inhibitor	160	23616947	7
Ostrya carpinifolia		Unassigned	Aero Plant	Ostrya Ost c 1pollen allergen	160	300872535	12
Pachycondyla chinensis		Unassigned	Venom or Salivary	Pachycondyla Pac c 3 allergen	199	169822894	10
Pandalus borealis		Unassigned	Food Animal	Pandalus Pan b 1	284	312831088	12
Pandalus eous		Unassigned	Food Animal	Pandalus Pan b 1	284	125995161	8
Panulirus stimpsoni	Lobster	Unassigned	Food Animal	Panulirus Pan s 1	274	14285797	7
Paralithodes camtschaticus		Unassigned	Food Animal	Paralithodes tropomyosin	284	125995163	8
Paralithodes camtschaticus		Unassigned	Food Animal	Paralithodes tropomyosin	284	125995165	8
Parietaria judaica	Weed	Par j 1	Aero Plant	Parietaria Par j 1	143	741844	7
Parietaria judaica	Weed	Par j 1.0102	Aero Plant	Parietaria Par j 1	176	1532058	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 47 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Parietaria judaica	Weed	Par j 1.0201	Aero Plant	Parietaria Par j 1	138	2497749	7
Parietaria judaica	Weed	Par j 1.0101	Aero Plant	Parietaria Par j 1	139	3915783	7
Parietaria judaica	Weed	Par j 2.0102	Aero Plant	Parietaria Par j 2	133	1532056	7
Parietaria judaica	Weed	Par j 2.0101	Aero Plant	Parietaria Par j 2	133	2497750	7
Parietaria judaica	Weed	Par j 3	Aero Plant	Parietaria Par j 3	131	14423869	7
Parietaria judaica	Weed	Par j 3	Aero Plant	Parietaria Par j 3	132	14423876	7
Parietaria officinalis	Weed	Par o 1	Aero Plant	Parietaria Par o 1	12	75139847	7
Parietaria officinalis	Weed	Par o 1	Aero Plant	Parietaria Par o 1	17	1311509	7
Parietaria officinalis	Weed	Par o 1	Aero Plant	Parietaria Par o 1	15	1311510	7
Parietaria officinalis	Weed	Par o 1	Aero Plant	Parietaria Par o 1	15	1311511	7
Parietaria officinalis	Weed	Par o 1	Aero Plant	Parietaria Par o 1	15	1311512	7
Parietaria officinalis	Weed	Par o 1	Aero Plant	Parietaria Par o 1	30	1311513	7
Parietaria officinalis	Weed	Par o 1	Aero Plant	Parietaria Par o 1	24	1836011	7
Parietaria officinalis	Weed	Unassigned	Aero Plant	Parietaria Par o 1	25	1836010	7
Paspalum notatum	Bahia grass	Unassigned	Aero Plant	Paspalum group 13 pollen allergen	169	338930686	12
Paspalum notatum	Bahia grass	Unassigned	Aero Plant	Paspalum group 13 pollen allergen	169	338930684	12
Paspalum notatum	Bahia grass	Unassigned	Aero Plant	Paspalum group 13 pollen allergen	169	338930682	12
Paspalum notatum	Bahia grass	Unassigned	Aero Plant	Paspalum group 13 pollen allergen	169	338930680	12
Paspalum notatum	Bahia grass	Unassigned	Aero Plant	Paspalum group 13 pollen allergen	393	338930678	12
Paspalum notatum	Bahia grass	Unassigned	Aero Plant	Paspalum group 13 pollen allergen	393	338930676	12
Paspalum notatum	Bahia grass	Unassigned	Aero Plant	Paspalum group 13 pollen allergen	391	338930674	12
Paspalum notatum	Bahia grass	Unassigned	Aero Plant	Paspalum group 13 pollen allergen	395	338930672	12
Paspalum notatum	Bahia grass	Unassigned	Aero Plant	Paspalum Pas n 1 beta expansin	265	168419914	10
Penaeus monodon	Black tiger shrimp	Unassigned	Food Animal	Penaeus Pen m 1 tropomyosin	284	125995157	8
Penaeus monodon	shrimp	Pen m 2	Food Animal	Penaeus Pen m 2	356	27463265	7
Penaeus monodon	shrimp	Unassigned	Food Animal	Penaeus Pen m 2	356	308154236	12

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Penaeus monodon	Black tiger shrimp	Unassigned	Food Animal	Penaeus Pen m 3 myosin light chain	177	317383196	12
Penaeus monodon	Black tiger shrimp	Unassigned	Food Animal	Penaeus Pen m 4 sarcoplasmic calcium binding	193	317383198	12
Penicillium brevicompactum	Fungus	Unassigned	Aero Fungi	Penicillium Pen b 26	107	59894749	7
Penicillium chrysogenum	Fungus	Pen ch 18	Aero Fungi	Penicillium Pen 18	494	7963902	7
Penicillium chrysogenum	Fungus	Pen ch 18	Aero Fungi	Penicillium Pen 18	494	14215732	7
Penicillium chrysogenum	Fungus	Pen ch 13	Aero Fungi	Penicillium Pen ch 13	397	6684758	7
Penicillium chrysogenum	Fungus	Pen ch 13	Aero Fungi	Penicillium Pen ch 13	398	21069093	7
Penicillium chrysogenum	Fungus	Pen ch 20	Aero Fungi	Penicillium Pen ch 20 68 kDa protein	117	999009	7
Penicillium citrinum	Fungus	Unassigned	Aero Fungi	Penicillium Pen 18	457	4588118	7
Penicillium citrinum	Fungus	Unassigned	Aero Fungi	Penicillium Pen 18	358	12005501	7
Penicillium citrinum	Fungus	Pen c 19	Aero Fungi	Penicillium Pen c 19	503	14423733	7
Penicillium citrinum	Fungus	Unassigned	Aero Fungi	Penicillium Pen c 22	438	74664773	9
Penicillium citrinum	Fungus	Pen c 24	Aero Fungi	Penicillium Pen c 24	228	38326693	7
Penicillium citrinum	Fungus	Pen c 3	Aero Fungi	Penicillium Pen c 3	167	5326864	7
Penicillium citrinum	Fungus	Unassigned	Aero Fungi	Penicillium Pen ch 13	397	4587983	7
Penicillium oxalicum	Fungus	Pen o 18	Aero Fungi	Penicillium Pen 18	503	12005497	7
Periplaneta americana	cockroach	Per a 7.0101	Aero Insect	Periplaneta Per 7	284	4378573	7
Periplaneta americana	cockroach	Unassigned	Aero Insect	Periplaneta Per 7	284	14423957	9
Periplaneta americana	cockroach	Unassigned	Aero Insect	Periplaneta Per 7	284	239740599	11
Periplaneta americana	cockroach	Per a 1	Aero Insect	Periplaneta Per a 1	446	2231297	7
Periplaneta americana	cockroach	Per a 1.0104	Aero Insect	Periplaneta Per a 1	274	2253610	7
Periplaneta americana	cockroach	Per a 1	Aero Insect	Periplaneta Per a 1	395	2580504	7
Periplaneta americana	cockroach	Per a 1.0102	Aero Insect	Periplaneta Per a 1	228	2897849	7
Periplaneta americana	cockroach	Per a 1.0101	Aero Insect	Periplaneta Per a 1	231	4240399	7
Periplaneta americana	cockroach	Unassigned	Aero Insect	Periplaneta Per a 1	124	30144660	7
Periplaneta americana	cockroach	Unassigned	Aero Insect	Periplaneta Per a 1	395	284518361	11
Periplaneta americana	cockroach	Per a 3.0201	Aero Insect	Periplaneta Per a 3	631	1531589	7
Periplaneta americana	cockroach	Per a 3.0202	Aero Insect	Periplaneta Per a 3	470	1580794	7
Periplaneta americana	cockroach	Per a 3.0203	Aero Insect	Periplaneta Per a 3	393	1580797	7
Periplaneta americana	cockroach	Per a 3.0101	Aero Insect	Periplaneta Per a 3	685	2833325	9

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 49 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Periplaneta americana	cockroach	Unassigned	Aero Insect	Periplaneta Per a 3	688	284518363	11
Periplaneta americana	cockroach	Unassigned	Aero Insect	Periplaneta Per a 3	685	289721058	11
Periplaneta americana	American cockroach	Unassigned	Aero Insect	Periplaneta putative Per a 4	183	60678787	7
Periplaneta americana	American cockroach	Unassigned	Aero Insect	Periplaneta putative Per a 4	163	215794707	10
Periplaneta americana	American cockroach	Unassigned	Aero Insect	Periplaneta putative Per a 4	167	212675312	10
Periplaneta fuliginosa	Smokybrown cockroach	Unassigned	Aero Insect	Periplaneta Per 7	284	19310971	7
Perna viridis	Asian green mussell	Unassigned	Food Animal	Perna Tropomyosin	284	9954251	7
Persea americana	Avocado	Pers a 1	Food Plant	Persea Pers a 1	326	3201547	7
Phalaris aquatica	Canary grass	Unassigned	Aero Plant	Phalaris Pha a 1	20	409328	7
Phalaris aquatica	Canary grass	Pha a 1	Aero Plant	Phalaris Pha a 1	269	2498576	7
Phalaris aquatica	Canary grass	Unassigned	Aero Plant	Phalaris Pha a 5	320	2498577	7
Phalaris aquatica	Canary grass	Unassigned	Aero Plant	Phalaris Pha a 5	305	2498578	7
Phalaris aquatica	Canary grass	Unassigned	Aero Plant	Phalaris Pha a 5	294	2498579	7
Phalaris aquatica	Canary grass	Unassigned	Aero Plant	Phalaris Pha a 5	175	2498580	7
Phaseolus vulgaris	Kidney bean	Unassigned	Food Plant	Phaseolus Pha v 3	115	289064177	11
Phaseolus vulgaris	Kidney bean	Unassigned	Food Plant	Phaseolus Pha v 3	118	289064179	11
Phleum pratense	Common timothy	Phl p 1.0101	Aero Plant	Phleum Phl p 1	263	3901094	7
Phleum pratense	Common timothy	Phl p 1	Aero Plant	Phleum Phl p 1	241	28373838	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 1	240	45823012	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 1	263	1171008	9
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 1	262	1582250	10
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 11	143	47606039	9
Phleum pratense	Common timothy	Phl p 12	Aero Plant	Phleum Phl p 12	131	464471	7
Phleum pratense	Common timothy	Phl p 12	Aero Plant	Phleum Phl p 12	131	2415700	7
Phleum pratense	Common timothy	Phl p 12	Aero Plant	Phleum Phl p 12	131	2415702	7
Phleum pratense	Common timothy	Phl p 13	Aero Plant	Phleum Phl p 13	394	4826572	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 2	122	1171009	8
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 4	525	82492267	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 4	508	54144332	7

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 4	500	45108973	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 4	500	45108967	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 4	500	189014266	10
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 4	500	189014268	10
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 4	500	189014270	10
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 4	500	189014272	10
Phleum pratense	Common timothy	Phl p 5.0101	Aero Plant	Phleum Phl p 5	312	398830	7
Phleum pratense	Common timothy	Phl p 5	Aero Plant	Phleum Phl p 5	257	422005	7
Phleum pratense	Common timothy	Phl p 5	Aero Plant	Phleum Phl p 5	280	481397	7
Phleum pratense	Common timothy	Phl p 5	Aero Plant	Phleum Phl p 5	24	75139900	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	285	1092249	7
Phleum pratense	Common timothy	Phl p 5.0202	Aero Plant	Phleum Phl p 5	281	1684718	7
Phleum pratense	Common timothy	Phl p 5.0104	Aero Plant	Phleum Phl p 5	276	1684720	7
Phleum pratense	Common timothy	Phl p 5	Aero Plant	Phleum Phl p 5	286	2398757	7
Phleum pratense	Common timothy	Phl p 5	Aero Plant	Phleum Phl p 5	284	2851457	7
Phleum pratense	Common timothy	Phl p 5.0105	Aero Plant	Phleum Phl p 5	276	3135497	7
Phleum pratense	Common timothy	Phl p 5.0106	Aero Plant	Phleum Phl p 5	276	3135499	7
Phleum pratense	Common timothy	Phl p 5.0107	Aero Plant	Phleum Phl p 5	276	3135501	7
Phleum pratense	Common timothy	Phl p 5.0108	Aero Plant	Phleum Phl p 5	276	3135503	7
Phleum pratense	Common timothy	Phl p 5.0103	Aero Plant	Phleum Phl p 5	312	3309039	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	295	3309041	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	290	3309045	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	287	3309047	7
Phleum pratense	Common timothy	Phl p 5	Aero Plant	Phleum Phl p 5	275	13430402	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	287	21725606	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	287	21725608	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	287	21725610	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	287	21725612	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	287	21725614	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	287	21725616	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	287	21725618	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	287	21725620	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	287	21725622	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 51 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	287	21725624	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	287	21725626	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	287	21725628	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	287	21725630	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	287	21725632	7
Phleum pratense	Common timothy	Phl p 5	Aero Plant	Phleum Phl p 5	102	28948464	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	284	29500897	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 5	309	345108717	13
Phleum pratense	Common timothy	Phl p 6	Aero Plant	Phleum Phl p 6	138	3004465	7
Phleum pratense	Common timothy	Phl p 6	Aero Plant	Phleum Phl p 6	138	3004467	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 6	106	3004469	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 6	111	28374072	7
Phleum pratense	Common timothy	Unassigned	Aero Plant	Phleum Phl p 7	78	14423846	7
Phoenix dactylifera	Date palm	Pho d 2	Aero Plant	Phoenix Pho d 2	131	21322677	7
Pistacia vera		Unassigned	Food Plant	Pistacia 11S globulin	472	156001070	9
Pistacia vera		Unassigned	Food Plant	Pistacia 11S globulin	496	110349083	10
Pistacia vera		Unassigned	Food Plant	Pistacia 11S globulin	472	110349085	10
Pistacia vera		Unassigned	Food Plant	Pistacia Pis v 1 2S albumin	149	110349081	10
Pistacia vera		Unassigned	Food Plant	Pistacia Pis v 3 vicilin	519	133711974	10
Pisum sativum	Pea	Pis s 1	Food Plant	Pisum Pis s 1	415	42414629	7
Pisum sativum	Pea	Pis s 1	Food Plant	Pisum Pis s 1	415	42414627	7
Plantago lanceolata	Narrow-leaved plantain	Pla l 1	Aero Plant	Plantago Pla l 1	131	14422359	7
Plantago lanceolata	Narrow-leaved plantain	Pla l 1	Aero Plant	Plantago Pla l 1	131	14422361	7
Plantago lanceolata	Narrow-leaved plantain	Pla l 1	Aero Plant	Plantago Pla l 1	131	14422363	7
Plantago lanceolata	Narrow-leaved plantain	Unassigned	Aero Plant	Plantago Pla l 1	65	29163773	7
Platanus orientalis		Unassigned	Aero Plant	Platanus Pla or 1	170	162949336	9
Platanus x acerifolia	tree	Unassigned	Aero Plant	Platanus Pla a 1	179	29839547	9
Platanus x acerifolia	tree	Pla a 2	Aero Plant	Platanus Pla a 2	377	49523394	7
Plodia interpunctella	Indian meal moth	Unassigned	Aero Insect	Plodia Plo i 1 Arginine kinase	355	15886861	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Poa pratensis	bluegrass	Poa p 1	Aero Plant	Poa Poa p 1	20	280414	7
Poa pratensis	bluegrass	Poa p 1	Aero Plant	Poa Poa p 1	26	320620	7
Poa pratensis	bluegrass	Poa p 1	Aero Plant	Poa Poa p 1	263	4090265	7
Poa pratensis	bluegrass	Poa p 5	Aero Plant	Poa Poa p 5	303	11991227	7
Poa pratensis	bluegrass	Unassigned	Aero Plant	Poa Poa p 9	373	113560	7
Poa pratensis	bluegrass	Unassigned	Aero Plant	Poa Poa p 9	307	113562	7
Poa pratensis	bluegrass	Unassigned	Aero Plant	Poa Poa p 9	131	539056	7
Poa pratensis	bluegrass	Unassigned	Aero Plant	Poa Poa p 9	333	113561	7
Polistes annularis	Paper wasp	Pol a 1	Venom or Salivary	Polistes Pol a 1	301	14423833	7
Polistes annularis	Paper wasp	Pol a 2	Venom or Salivary	Polistes Pol a 2	367	14423735	7
Polistes annularis	Paper wasp	Pol a 5	Venom or Salivary	Polistes Venom allergen 5	209	160780	7
Polistes dominulus	Paper wasp	Unassigned	Venom or Salivary	Polistes Pol a 1	316	45510893	7
Polistes dominulus	Paper wasp	Unassigned	Venom or Salivary	Polistes Pol a 1	316	45510891	7
Polistes dominulus	Paper wasp	Unassigned	Venom or Salivary	Polistes Pol a 1	316	45510889	7
Polistes dominulus	Paper wasp	Unassigned	Venom or Salivary	Polistes Pol a 1	337	45510887	7
Polistes dominulus	Paper wasp	Pol d 5	Venom or Salivary	Polistes Venom allergen 5	227	51093377	7
Polistes dominulus	Paper wasp	Unassigned	Venom or Salivary	Polistes Venom serine protease	277	30909091	7
Polistes exclamans	Paper wasp	Pol e 5	Venom or Salivary	Polistes Venom allergen 5	205	549187	7
Polistes exclamans	Paper wasp	Unassigned	Venom or Salivary	Polistes Venom allergen 5	226	51093375	7
Polistes fuscatus	Paper wasp	Pol f 5	Venom or Salivary	Polistes Venom allergen 5	205	549188	7
Polistes gallicus	Paper wasp	Unassigned	Venom or Salivary	Polistes Pol a 1	42	41017429	7
Polistes gallicus	Paper wasp	Pol g 5	Venom or Salivary	Polistes Venom allergen 5	206	25091511	7
Polybia paulista	wasp	Unassigned	Venom or Salivary	Polybia p hyaluronidase	345	302201583	12

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 53 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Polybia paulista	wasp	Unassigned	Venom or Salivary	Polybia p hyaluronidase	288	302425085	12
Polybia paulista	wasp	Unassigned	Venom or Salivary	Polybia p venom allergen 5	141	290792375	11
Polybia paulista	wasp	Unassigned	Venom or Salivary	Polybia p venom allergen 5	207	302595972	12
Polybia paulista	wasp	Pol p 1.0101	Venom or Salivary	Polybia Pol p 1.0101 phospholipase	322	166216292	9
Polybia paulista	wasp	Unassigned	Venom or Salivary	Polybia Pol p 1.0101 phospholipase	302	315190620	12
Protortonia cacti		Unassigned	Food Animal	Protortonia	335	237769615	11
Prunus armeniaca	Apricot	Unassigned	Food Plant	Prunus Pru 3	119	313575730	12
Prunus armeniaca	Apricot	Unassigned	Food Plant	Prunus Pru 3	117	313575732	12
Prunus armeniaca	Apricot	Unassigned	Food Plant	Prunus Pru 3	117	313575734	12
Prunus armeniaca	Apricot	Unassigned	Food Plant	Prunus Pru 3	117	313575736	12
Prunus avium	Cherry	Pru av 1	Food Plant	Prunus PRP (Bet v 1 family)	160	1513216	7
Prunus avium	Cherry	Pru av 1	Food Plant	Prunus PRP (Bet v 1 family)	160	44409496	7
Prunus avium	Cherry	Pru av 1	Food Plant	Prunus PRP (Bet v 1 family)	160	44409474	7
Prunus avium	Cherry	Pru av 1	Food Plant	Prunus PRP (Bet v 1 family)	160	44409451	7
Prunus avium	Cherry	Unassigned	Food Plant	Prunus PRP (Bet v 1 family)	159	159162378	9
Prunus avium	Cherry	Pru av 3	Food Plant	Prunus Pru 3	117	6715520	7
Prunus avium	Cherry	Unassigned	Food Plant	Prunus Pru 3	117	313575726	12
Prunus avium	Cherry	Unassigned	Food Plant	Prunus Pru 3	117	313575728	12
Prunus avium	Cherry	Pru av 4	Food Plant	Prunus Pru 4 Profilin	131	4761582	7
Prunus avium	Cherry	Pru av 2	Food Plant	Prunus Pru av 2	245	1144346	7
Prunus domestica	Plum	Pru d 3	Food Plant	Prunus Pru 3	91	9297015	7
Prunus dulcis	Almond	Unassigned	Food Plant	Prunus persica Pru p 2 IUIS	241	190613941	10
Prunus dulcis	Almond	Pru du 4	Food Plant	Prunus Pru 4 Profilin	131	24473794	7
Prunus dulcis	Almond	Unassigned	Food Plant	Prunus Pru du 6 Amandin	531	258588247	11

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Prunus dulcis	Almond	Unassigned	Food Plant	Prunus Seed allergenic protein 2 (Conglutin gamma)	25	75107131	8
Prunus dulcis x Prunus persica		Unassigned	Food Plant	Prunus Almond-peach hybr profilin Pru 4	131	190613933	10
Prunus dulcis x Prunus persica		Unassigned	Food Plant	Prunus Almond-peach hybr profilin Pru 4	131	190613937	10
Prunus dulcis x Prunus persica		Unassigned	Food Plant	Prunus persica Pru p 2 IUIS	160	190613871	10
Prunus dulcis x Prunus persica		Unassigned	Food Plant	Prunus persica Pru p 2 IUIS	246	190613905	10
Prunus dulcis x Prunus persica		Unassigned	Food Plant	Prunus persica Pru p 2 IUIS	246	190613909	10
Prunus dulcis x Prunus persica		Pru p 2.0201	Food Plant	Prunus persica Pru p 2 IUIS	246	190613907	10
Prunus dulcis x Prunus persica		Pru p 2.0101	Food Plant	Prunus persica Pru p 2 IUIS	246	190613911	10
Prunus dulcis x Prunus persica		Pru p 2.0301	Food Plant	Prunus persica Pru p 2 IUIS	242	190613903	10
Prunus persica	Peach	Unassigned	Food Plant	Prunus persica Pru p 2 IUIS	246	25091405	12
Prunus persica	Peach	Unassigned	Food Plant	Prunus persica Pru p 2 IUIS	242	25091406	12
Prunus persica	Peach	Unassigned	Food Plant	Prunus persica Pru p 2 IUIS	246	359744030	13
Prunus persica	Peach	Unassigned	Food Plant	Prunus PRP (Bet v 1 family)	160	82492265	7
Prunus persica	Peach	Pru p 3	Food Plant	Prunus Pru 3	91	3287877	7
Prunus persica	Peach	Pru p 3	Food Plant	Prunus Pru 3	92	83754241	7
Prunus persica	Peach	Unassigned	Food Plant	Prunus Pru 3	117	54793477	7
Prunus persica	Peach	Unassigned	Food Plant	Prunus Pru 3	117	313575718	12
Prunus persica	Peach	Pru p 4.01	Food Plant	Prunus Pru 4 Profilin	131	27528310	7
Prunus persica	Peach	Pru p 4.02	Food Plant	Prunus Pru 4 Profilin	131	27528312	7
Pseudocardium sachalinensis		Unassigned	Food Animal	Pseudocardium tropomyosin	284	219806598	10
Pyrus communis	Pear	Pyr c 1	Food Plant	Pyrus Pyr c 1	159	3044216	7
Pyrus communis	Pear	Pyr c 4	Food Plant	Pyrus Pyr c 4	131	4761580	7
Pyrus communis	Pear	Pyr c 5	Food Plant	Pyrus Pyr c 5	308	3243234	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 55 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Quercus alba	Oak	Que a 1	Aero Plant	Quercus Que a 1	24	543675	7
Quercus alba	Oak	Unassigned	Aero Plant	Quercus Que a 1	159	167472847	10
Quercus alba	Oak	Unassigned	Aero Plant	Quercus Que a 1	160	167472849	10
Rana esculenta	Frog	Ran e 1	Food Animal	Rana Ran e 1	110	20796729	7
Rana esculenta	Frog	Ran e 2	Food Animal	Rana Ran e 2	109	20797081	7
Rana sp. CH-2001	Frog	Unassigned	Food Animal	Rana Ran e 1	110	20796733	7
Rana sp. CH-2001	Frog	Unassigned	Food Animal	Rana Ran e 2	109	20797085	7
Rattus norvegicus	Rat	Rat n 1	Aero Animal	Rattus Rat n 1	181	127533	7
Rattus norvegicus	Rat	Rat n 1	Aero Animal	Rattus Rat n 1	181	81890324	7
Rattus norvegicus	Rat	Unassigned	Aero Animal	Rattus Rat n 1	181	109474987	8
Rhodotorula mucilaginosa	Fungus	Unassigned	Aero Fungi	Rhodotorula Rho m 1	439	37078092	7
Rhodotorula mucilaginosa	Fungus	Unassigned	Aero Fungi	Rhodotorula Rho m 2	342	54654335	7
Ricinus communis	Castor bean	Ric c 1	Food Plant	Ricinus Ric c 1	258	112762	7
Rubus idaeus		Unassigned	Food Plant	Rubus putative allergen Rub i 1	137	110180525	8
Rubus idaeus		Unassigned	Food Plant	Rubus putative allergen Rub i 3	117	110180523	8
Salmo salar	Salmon	Sal s 1	Food Animal	Salmo Sal s 1	109	2493445	7
Salmo salar	Salmon	Sal s 1	Food Animal	Salmo Sal s 1	108	18281421	7
Salmo salar	Salmon	Unassigned	Food Animal	Salmo Sal s 1	109	209734468	10
Salsola kali	Thistle	Unassigned	Aero Plant	Salsola pectin methylesterase Sal k 1.01 & 1.02	362	51242679	8
Salsola kali	Thistle	Unassigned	Aero Plant	Salsola pectin methylesterase Sal k 1.01 & 1.02	339	59895728	8
Salsola kali	Thistle	Unassigned	Aero Plant	Salsola pectin methylesterase Sal k 1.01 & 1.02	339	59895730	8
Salsola kali	Thistle	Unassigned	Aero Plant	Salsola pectin methylesterase Sal k 1.01 & 1.02	339	225810597	10
Salsola kali	Thistle	Sal k 1	Aero Plant	Salsola Sal k 1	11	25090948	7
Salsola kali	Thistle	Sal k 1	Aero Plant	Salsola Sal k 1	8	25090949	7
Salsola kali	Thistle	Sal k 1	Aero Plant	Salsola Sal k 1	9	25090950	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 56 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Salsola kali	Thistle	Sal k 1	Aero Plant	Salsola Sal k 1 Salsola Sal k 3 pollen	14	25090951	7
Salsola kali	Thistle	Unassigned	Aero Plant	allergen	757	225810599	10
Salsola kali	Thistle	Unassigned	Aero Plant	Salsola Sal k 4 profilin	133	239916566	11
Salvelinus fontinalis	Brook trout	Unassigned	Food Animal	Salvelinus parvalbumin	109	288557438	11
Salvelinus fontinalis	Brook trout	Unassigned	Food Animal	Salvelinus parvalbumin	108	288557440	11
Sarcoptes scabiei type hominis	Scabies mite	Unassigned	Venom or Salivary	Sarcoptes Apolipoprotein Ssag1.2	330	27462848	7
Sarcoptes scabiei type hominis	Scabies mite	Unassigned	Venom or Salivary	Sarcoptes cysteine protease CO8	340	46406002	7
Sarcoptes scabiei type hominis	Scabies mite	Unassigned	Venom or Salivary	Sarcoptes cysteine proteases FO4	338	46406012	7
Sarcoptes scabiei type hominis	Scabies mite	Unassigned	Venom or Salivary	Sarcoptes cysteine proteases FO4	339	46406014	7
Sarcoptes scabiei type hominis	Scabies mite	Unassigned	Venom or Salivary	Sarcoptes cysteine proteases FO4	273	46406016	7
Sarcoptes scabiei type hominis	Scabies mite	Unassigned	Venom or Salivary	Sarcoptes Glutathione S-transferase Mu	219	27462836	7
Sarcoptes scabiei type hominis	Scabies mite	Unassigned	Venom or Salivary	Sarcoptes Glutathione S-transferase Mu	219	60920770	7
Sardinops sagax		Unassigned	Food Animal	Sardinops Sar sa 1 parvalbumin	109	193247972	10
Scapharca broughtonii		Unassigned	Food Animal	Scapharca tropomyosin	284	219806592	10
Schedonorus arundinaceus	Tall fescue	Unassigned	Aero Plant	Festuca group 1 allergen	35	75139991	7
Schedonorus arundinaceus	Tall fescue	Unassigned	Aero Plant	Festuca group 1 allergen	17	320610	7
Schedonorus arundinaceus	Tall fescue	Unassigned	Aero Plant	Festuca group 1 allergen	20	320611	7
Schistosoma japonicum	Schistosoma	Unassigned	Protozoan	Schistosoma Putative profilin	129	29841461	7
Schistosoma japonicum	Schistosoma	Unassigned	Protozoan	Schistosoma tegumental antigen	191	2739154	7
Scomber japonicus	Chub mackerel	Unassigned	Food Animal	Scomber Parvalbumin	109	29420793	7
Scomber scombrus	Atlantic mackerel	Unassigned	Food Animal	Scomber Parvalbumin	109	288557436	11

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 57 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Scylla paramamosain	green mud crab	Unassigned	Food Animal	Scylla arginine kinase	357	375298903	13
Secale cereale	Rye	Unassigned	Aero Plant	Secale 30K pollen grp 5	16	75140047	7
Secale cereale	Rye	Unassigned	Food Plant	Secale 30K pollen grp 5	292	332205751	12
Secale cereale	Rye	Sec c 1	Aero Plant	Secale Sec c 38.01	26	75198875	7
Secale cereale	Rye	Unassigned	Aero Plant	Secale Sec c 4	520	55859456	7
Secale cereale	Rye	Unassigned	Aero Plant	Secale Sec c 4	518	55859454	7
Sepia esculenta		Unassigned	Food Animal	Sepia tropomyosin	284	83715928	7
Sepioteuthis lessoniana		Unassigned	Food Animal	Sepioteuthis tropomyosin	284	83715930	7
Sesamum indicum	Sesame	Ses i 1	Food Plant	Sesamum Ses i 1	153	13183175	7
Sesamum indicum	Sesame	Unassigned	Food Plant	Sesamum Ses i 1	153	209165427	10
Sesamum indicum	Sesame	Ses i 2	Food Plant	Sesamum Ses i 2	148	5381323	7
Sesamum indicum	Sesame	Ses i 3	Food Plant	Sesamum Ses i 3	585	13183177	7
Sesamum indicum	Sesame	Unassigned	Food Plant	Sesamum Ses i 4 oleosin	166	10834827	13
Sesamum indicum	Sesame	Unassigned	Food Plant	Sesamum Ses i 5 oleosin	145	198250343	10
Sesamum indicum	Sesame	Unassigned	Food Plant	Sesamum Ses i 5 oleosin	145	75315271	10
Sinapis alba	White mustard	Sin a 1	Food Plant	Sinapis Sin a 1.01	145	1009434	7
Sinapis alba	White mustard	Sin a 1	Food Plant	Sinapis Sin a 1.01	145	1009436	7
Sinapis alba	White mustard	Sin a 1	Food Plant	Sinapis Sin a 1.01	145	1009438	7
Sinapis alba	White mustard	Sin a 1	Food Plant	Sinapis Sin a 1.01	145	1009440	7
Sinapis alba	White mustard	Sin a 1	Food Plant	Sinapis Sin a 1.01	145	1009442	7
Sinapis alba	White mustard	Sin a 1	Food Plant	Sinapis Sin a 1.01	145	51338758	7
Sinapis alba	White mustard	Sin a 2.0101	Food Plant	Sinapis Sin a 2.01 11S globulin	510	62240390	7
Sinapis alba	White mustard	Unassigned	Food Plant	Sinapis Sin a 2.01 11S globulin	523	62240392	7
Sinapis alba	White mustard	Sin a 3.0101	Food Plant	Sinapis Sin a 3.01 LTP	92	156778059	12
Sinapis alba	White mustard	Sin a 4.0101	Food Plant	Sinapis Sin a 4.01 profilin	131	156778061	12
Solanum tuberosum	Potato	Unassigned	Food Plant	Solanum profilin-like	131	77416979	7
Solanum tuberosum	Potato	Unassigned	Food Plant	Solanum profilin-like	131	77999277	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 58 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Solanum tuberosum	Potato	Unassigned	Food Plant	Solanum Sola t 1	386	21510	7
Solanum tuberosum	Potato	Unassigned	Food Plant	Solanum Sola t 1	386	21512	7
Solanum tuberosum	Potato	Unassigned	Food Plant	Solanum Sola t 1	386	21514	7
Solanum tuberosum	Potato	Unassigned	Food Plant	Solanum Sola t 1	386	169500	7
Solanum tuberosum	Potato	Sola t 1	Food Plant	Solanum Sola t 1	386	158517845	9
Solanum tuberosum	Potato	Sola t 2	Food Plant	Solanum Sola t 2	188	124148	7
Solanum tuberosum	Potato	Sola t 3	Food Plant	Solanum Sola t 3	222	20141344	7
Solanum tuberosum	Potato	Unassigned	Food Plant	Solanum Sola t 4	217	21413	7
Solanum tuberosum	Potato	Sola t 4	Food Plant	Solanum Sola t 4	221	20141714	7
Solen strictus		Unassigned	Food Animal	Solen tropomyosin	284	219806602	10
Solenopsis geminata	Tropical Fire Ant	Sol g 4	Venom or Salivary	Solenopsis Venom allergen IV	137	7638028	7
Solenopsis geminata	Tropical Fire Ant	Sol g 4	Venom or Salivary	Solenopsis Venom allergen IV	137	7638030	7
Solenopsis invicta	Red fire ant	Unassigned	Venom or Salivary	Solenopsis Sol i 1	58	1336809	7
Solenopsis invicta	Red fire ant	Unassigned	Venom or Salivary	Solenopsis Sol i 1	25	1336811	7
Solenopsis invicta	Red fire ant	Unassigned	Venom or Salivary	Solenopsis Sol i 1	26	1336812	7
Solenopsis invicta	Red fire ant	Unassigned	Venom or Salivary	Solenopsis Sol i 1	26	1336813	7
Solenopsis invicta	Red fire ant	Unassigned	Venom or Salivary	Solenopsis Sol i 1	346	51093373	7
Solenopsis invicta	Red fire ant	Sol i 2	Venom or Salivary	Solenopsis Sol i and Sol r Venom allergen II	138	549179	7
Solenopsis invicta	Red fire ant	Sol i 3	Venom or Salivary	Solenopsis Venom allergen III	234	14424466	7
Solenopsis invicta	Red fire ant	Sol i 4	Venom or Salivary	Solenopsis Venom allergen IV	137	4038411	7
Solenopsis invicta	Red fire ant	Sol i 4	Venom or Salivary	Solenopsis Venom allergen IV	137	14424465	7
Solenopsis richteri	Black fire ant	Unassigned	Venom or Salivary	Solenopsis Sol i and Sol r Venom allergen II	119	6136162	7
Solenopsis richteri	Black fire ant	Unassigned	Venom or Salivary	Solenopsis Venom allergen III	211	6136163	7

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 59 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Solenopsis saevissima	Brazilian fire ant	Unassigned	Venom or Salivary	Solenopsis Venom allergen IV	137	291092710	12
Staphylococcus aureus		Unassigned	Bacteria skin	Staphylococcus enterotoxin SEA	233	1633233	9
Staphylococcus aureus		Unassigned	Bacteria skin	Staphylococcus enterotoxin SEB	254	83308249	9
Staphylococcus aureus		Unassigned	Bacteria skin	Staphylococcus enterotoxin SEC	266	462026	9
Staphylococcus aureus		Unassigned	Bacteria skin	Staphylococcus enterotoxin SED	258	119654	9
Staphylococcus aureus		Unassigned	Bacteria skin	Staphylococcus enterotoxin TSST 1	234	136457	9
Suidasia medanensis		Unassigned	Aero Mite	Suidasia putative Sui m 2	141	45738062	7
Sus scrofa	Pig	Unassigned	Aero Animal	Sus Porcine Pepsin	385	118572685	11
Syringa vulgaris	Lilac	Syr v 1.0101	Aero Plant	Syringa Syr v I	145	631911	7
Syringa vulgaris	Lilac	Syr v 1.0102	Aero Plant	Syringa Syr v I	145	631912	7
Syringa vulgaris	Lilac	Syr v 1.0103	Aero Plant	Syringa Syr v I	145	631913	7
Tabanus yao	Horse Fly	Unassigned	Venom or Salivary	Tabanus Tab y 1 Apyrase	554	374110471	13
Tabanus yao	Horse Fly	Tab y 2.0101	Venom or Salivary	Tabanus Tab y 2 Hyaluronidase	349	304273371	12
Tabanus yao	Horse Fly	Tab y 5.0101	Venom or Salivary	Tabanus Tab y 5	256	304273369	12
Thaumetopoea pityocampa	Pine moth	Unassigned	Contact	Thaumetopoea Tha p 1	126	301030229	12
Theragra chalcogramma	Alaska pollock	Unassigned	Food Animal	Theragra parvalbumin	109	14531020	7
Theragra chalcogramma	Alaska pollock	Unassigned	Food Animal	Theragra parvalbumin	109	14531018	7
Todarodes pacificus	Japanese flying squid	Unassigned	Food Animal	Todarodes tropomyosin	284	83715932	7
Trachurus japonicus		Unassigned	Food Animal	Trachurus parvalbumin	107	77799800	7
Tresus keenae		Unassigned	Food Animal	Tresus tropomyosin	284	219806600	10
Triatoma protracta	Western conenose	Tria p 1	Venom or Salivary	Triatoma Tria p 1	169	15426413	7
Trichophyton rubrum	Fungus	Tri r 2	Contact	Trichophyton (Arthroderma) Tri m 2	412	5813790	7

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Trichophyton rubrum	Fungus	Tri r 4	Contact	Trichophyton tri 4 allergen (Arthroderma)	726	5813788	7
Trichophyton schoenleinii	Fungus	Unassigned	Contact	Trichophyton (Arthroderma) Tri m 2	405	74663809	12
Trichophyton schoenleinii	Fungus	Unassigned	Contact	Trichophyton tri 4 allergen (Arthroderma)	726	23894227	7
Triticum aestivum	Wheat	Unassigned	Aero Plant	Triticum Tri a 14 LTP_amylase inhibitor	113	417370	11
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum 5a2 protein	94	66840998	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum aAI CM16_17	143	21711	7
Triticum aestivum	Wheat	Unassigned	Aero Plant	Triticum aAI CM16_17	143	195957140	10
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum aAI CM3	168	21713	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum Alpha/beta gliadin IgE & celiac	307	21673	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum Alpha/beta gliadin IgE & celiac	286	21755	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum Alpha/beta gliadin IgE & celiac	296	21757	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum Alpha/beta gliadin IgE & celiac	286	21761	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum Alpha/beta gliadin IgE & celiac	313	21765	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum Alpha/beta gliadin IgE & celiac	318	170710	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum Alpha/beta gliadin IgE & celiac	291	170712	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum Alpha/beta gliadin IgE & celiac	313	170718	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum Alpha/beta gliadin IgE & celiac	286	170720	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum Alpha/beta gliadin IgE & celiac	262	170722	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum Alpha/beta gliadin IgE & celiac	297	170724	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum Alpha/beta gliadin IgE & celiac	282	170726	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum Alpha/beta gliadin IgE & celiac	186	170728	7

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum Alpha/beta gliadin IgE & celiac	287	473876	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum Alpha/beta gliadin IgE & celiac	259	1304264	7
Triticum aestivum	Wheat	Unassigned	Aero Plant	Triticum Bakers asthma allergen #4	27	3913017	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum gamma gliadin IgE & celiac	302	170702	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum gamma gliadin IgE & celiac	291	170708	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum gamma gliadin IgE & celiac	304	170730	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum gamma gliadin IgE & celiac	323	170732	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum gamma gliadin IgE & celiac	244	170734	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum gamma gliadin IgE & celiac	251	170736	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum gamma gliadin IgE & celiac	327	170738	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum gamma gliadin IgE & celiac	279	1063270	7
Triticum aestivum	Wheat	Unassigned	Gliadin	Triticum gamma gliadin IgE & celiac	285	62484809	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum HMW glutenin	830	21743	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum HMW glutenin	648	21751	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum HMW glutenin	660	21779	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum HMW glutenin	39	21793	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum HMW glutenin	705	22090	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum HMW glutenin	815	170743	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum HMW glutenin	838	736319	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum HMW glutenin	101	897811	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum LMW glutenin	307	21773	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum LMW glutenin	356	21783	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum LMW glutenin	373	75317968	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum LMW glutenin	229	886963	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum LMW glutenin	261	886965	7

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum LMW glutenin	276	886967	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum LMW glutenin	285	75219081	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum LMW glutenin	326	62550933	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum LMW glutenin	369	335331566	12
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum omega-5 gliadin Tri a 19	439	73912496	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum omega-5 gliadin Tri a 19	359	208605344	10
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum omega-5 gliadin Tri a 19	272	208605346	10
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum omega-5 gliadin Tri a 19	346	208605348	10
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum Profilin	141	1008443	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum Profilin	140	1008445	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum Profilin	138	1052817	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum Profilin	131	190684061	11
Triticum aestivum	Wheat	Unassigned	Aero Plant	Triticum putative flour allergens Constantin 2010	218	190684059	11
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum putative leucine- rich repeat protein	137	66840996	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum serine carboxypeptidase II	260	66840994	7
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum serine carboxypeptidase II	444	125987805	10
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum Serine protease inhibitor	399	1885350	7
Triticum aestivum	Wheat	Unassigned	Aero Plant	Triticum serine proteinase inhibitor-like	84	154101366	10
Triticum aestivum	Wheat	Unassigned	Aero Plant	Triticum serine proteinase inhibitor-like	84	122065237	11
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum Thaumatin-like	173	135917	12
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum Tri a 29	145	21701	7
Triticum aestivum	Wheat	Unassigned	Aero Plant	Triticum Tri a 29	120	253783731	11

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

Page 63 of 66

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Triticum aestivum	Wheat	Unassigned	Aero Plant	Triticum Tri a 29	120	283465827	11
Triticum aestivum	Wheat	Unassigned	Food Plant	Triticum Triosephosphate isomerase	253	11124572	7
Triticum turgidum	Wheat	Unassigned	Aero Plant	Triticum aAI CM16_17	18	244610	7
Triticum turgidum subsp. durum	Wheat	Unassigned	Food Plant	Triticum aAI CM16_17	143	21916	7
Triticum turgidum subsp. durum	Wheat	Unassigned	Food Plant	Triticum aAI CM3	168	100834	7
Triticum turgidum subsp. durum	Wheat	Unassigned	Food Plant	Triticum LMW glutenin	295	21926	7
Triticum turgidum subsp. durum	Wheat	Unassigned	Food Plant	Triticum LMW glutenin	285	21930	7
Triticum turgidum subsp. durum	Wheat	Unassigned	Food Plant	Triticum Tri a 29	145	21920	7
Triticum urartu	Wheat	Unassigned	Food Plant	Triticum Alpha/beta gliadin IgE & celiac	296	170740	7
Tyrophagus putrescentiae	Dust mite	Unassigned	Aero Mite	Tyrophagus Tyr p 10 tropomyosin	284	148615631	9
Tyrophagus putrescentiae	Dust mite	Unassigned	Aero Mite	Tyrophagus Tyr p 10 tropomyosin	201	156938915	9
Tyrophagus putrescentiae	Dust mite	Unassigned	Aero Mite	Tyrophagus Tyr p 10 tropomyosin	284	48249227	9
Tyrophagus putrescentiae	Dust mite	Tyr p 13	Aero Mite	Tyrophagus Tyr p 13	131	51860756	7
Tyrophagus putrescentiae	Dust mite	Unassigned	Aero Mite	Tyrophagus Tyr p 13	130	121296500	9
Tyrophagus putrescentiae	Dust mite	Unassigned	Aero Mite	Tyrophagus Tyr p 13	131	156938917	9
Tyrophagus putrescentiae	Dust mite	Unassigned	Aero Mite	Tyrophagus Tyr p 2	141	3182907	9
Tyrophagus putrescentiae	Dust mite	Unassigned	Aero Mite	Tyrophagus Tyr p 24			
Tyrophagus putrescentiae	Dust mite	Unassigned	Aero Mite	Troponin C	153	219815476	11
Tyrophagus putrescentiae	Dust mite	Unassigned	Aero Mite	Tyrophagus Tyr p 3	285	167540622	11
Vespa crabro	European hornet	Vesp c 5	Venom or Salivary	Vespa Venom allergen 5 hornets	202	549184	7
Vespa crabro	European hornet	Vesp c 5	Venom or Salivary	Vespa Venom allergen 5 hornets	202	549185	7
Vespa crabro	European hornet	Unassigned	Venom or Salivary	Vespa Vesp c 1 phospholipase	301	313471397	12
Vespa mandarinia	Wasp	Vesp m 5	Venom or Salivary	Vespa Venom allergen 5 hornets	202	6136165	7

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Vespula flavopilosa	Wasp	Ves f 5	Venom or Salivary	Vespula Venom allergen 5 yellow jackets	204	549189	7
Vespula germanica	Wasp	Unassigned	Venom or Salivary	Vespula Phospholipase A1- Ves m/v 1	300	74035843	7
Vespula germanica	Wasp	Ves g 5	Venom or Salivary	Vespula Venom allergen 5 yellow jackets	204	549190	7
Vespula germanica	Wasp	Unassigned	Venom or Salivary	Vespula Venom allergen 5 yellow jackets	204	74035841	7
Vespula germanica	Wasp	Unassigned	Venom or Salivary	Vespula Ves v 2	331	116174180	8
Vespula germanica	Wasp	Unassigned	Venom or Salivary	Vespula Ves v 2	323	116174182	8
Vespula maculifrons	Wasp	Ves m 1	Venom or Salivary	Vespula Phospholipase A1- Ves m/v 1	300	1709545	8
Vespula maculifrons	Wasp	Ves m 5	Venom or Salivary	Vespula Venom allergen 5 yellow jackets	204	549191	7
Vespula maculifrons	Wasp	Unassigned	Venom or Salivary	Vespula Venom allergen 5 yellow jackets	227	85681830	7
Vespula maculifrons	Wasp	Unassigned	Venom or Salivary	Vespula Ves m 2 Hyaluronidase	31	313118253	12
Vespula pensylvanica	Wasp	Ves p 5	Venom or Salivary	Vespula Venom allergen 5 yellow jackets	204	549192	7
Vespula squamosa	Wasp	Ves s 5	Venom or Salivary	Vespula Venom allergen 5 yellow jackets	205	549193	7
Vespula squamosa	Wasp	Unassigned	Venom or Salivary	Vespula Ves s 1 phospholipase	298	313471398	12
Vespula vidua	Wasp	Ves vi 5	Venom or Salivary	Vespula Venom allergen 5 yellow jackets	206	549194	7

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Vespula vulgaris	Wasp	Ves v 1	Venom or Salivary	Vespula Phospholipase A1- Ves m/v 1	336	897647	7
Vespula vulgaris	Wasp	Ves v 5	Venom or Salivary	Vespula Venom allergen 5 yellow jackets	227	162551	7
Vespula vulgaris	Wasp	Ves v 5	Venom or Salivary	Vespula Venom allergen 5 yellow jackets	204	4826574	7
Vespula vulgaris	Wasp	Ves v 5	Venom or Salivary	Vespula Venom allergen 5 yellow jackets	209	11514279	7
Vespula vulgaris	Wasp	Ves v 2	Venom or Salivary	Vespula Ves v 2	331	1346323	7
Vespula vulgaris	Wasp	Unassigned	Venom or Salivary	Vespula Ves v 2	340	62147665	7
Vespula vulgaris	Wasp	Unassigned	Venom or Salivary	Vespula Ves v 2	331	109157163	8
Vespula vulgaris	Wasp	Unassigned	Venom or Salivary	Vespula Ves v 3 dipeptidylpeptidase IV	776	313471718	12
Vigna radiata		Unassigned	Food Plant	Vigna Vig r 1 PR 10	155	60418924	7
Vitis sp.	Grape	Unassigned	Food Plant	Vitis Lipid transfer protein P3	91	145559502	8
Vitis sp.	Grape	Vit v 1	Food Plant	Vitis Vit v 1 LTP	37	462719	7
Vitis sp.	Grape	Unassigned	Food Plant	Vitis Vit v 1 LTP	38	462717	7
Xiphias gladius	Swordfish	Unassigned	Food Animal	Xiphias Xip g 1 beta-parvalbumin	109	222352960	10
Zea mays	Corn	Unassigned	Aero Plant	Zea m 1 isoform	263	89892721	7
Zea mays	Corn	Unassigned	Aero Plant	Zea m 1 isoform	252	89892723	7
Zea mays	Corn	Unassigned	Aero Plant	Zea m 1 isoform	99	105969543	8
Zea mays	Corn	Unassigned	Aero Plant	Zea m 1 isoform	269	105969545	8
Zea mays	Corn	Unassigned	Aero Plant	Zea m 1 isoform	270	115502167	9
Zea mays	Corn	Unassigned	Aero Plant	Zea m 1 isoform	269	115502168	9
Zea mays	Corn	Unassigned	Food Plant	Zea profilin	131	2642324	7
Zea mays	Corn	Unassigned	Food Plant	Zea profilin	131	110644952	8
Zea mays	Corn	Unassigned	Food Plant	Zea profilin	131	110644954	8
Zea mays	Corn	Unassigned	Food Plant	Zea profilin	131	110644956	8

Appendix 1  
AllergenOnline version 13

1630 Sequences  
612 Taxonomic protein groups

<u>Species</u>	<u>Common</u>	<u>IUIS Allergen</u>	<u>Type</u>	<u>Group</u>	<u>Length</u>	<u>GI#</u>	<u>Version added</u>
Zea mays	Corn	Unassigned	Food Plant	Zea profilin	131	110644958	8
Zea mays	Corn	Unassigned	Food Plant	Zea profilin	131	110644960	8
Zea mays	Corn	Unassigned	Food Plant	Zea profilin	131	110644962	8
Zea mays	Corn	Unassigned	Food Plant	Zea profilin	130	110644964	8
Zea mays	Corn	Unassigned	Aero Plant	Zea putative Zea m 13	410	89892725	7
Zea mays	Corn	Unassigned	Aero Plant	Zea putative Zea m 13	404	89892727	7
Zea mays	Corn	Unassigned	Aero Plant	Zea putative Zea m 13	411	89892729	7
Zea mays	Corn	Unassigned	Aero Plant	Zea Zea m 13	170	1588669	7
Zea mays	Corn	Zea m 14	Food Plant	Zea Zea m 14	120	128388	7
Zea mays	Corn	Unassigned	Aero Plant	Zea Zea m 25 thioredoxin	128	66841002	7
Zea mays	Corn	Unassigned	Aero Plant	Zea Zea m1	269	28630919	7
Zea mays	Corn	Unassigned	Aero Plant	Zea Zea m1	269	28630923	7
Zea mays	Corn	Unassigned	Aero Plant	Zea Zea m1	269	14193761	8
Zea mays	Corn	Unassigned	Aero Plant	Zea Zea m1	245	114794319	8
Ziziphus mauritiana	Chinese-date	Unassigned	Food Plant	Ziziphus Ziz m 1	330	61225281	7