

## ALEX<sup>2</sup>® Allergen List

Component/Extract	Allergen-code	Common name	Scientific name	Component	Biochemical designation
<b>Grass Pollen</b>					
E	g17	Bahia grass	Paspalum notatum		
E	g2	Bermuda grass	Cynodon dactylon		
C	g216	Bermuda grass	Cynodon dactylon	rCyn d 1	Beta-Expansin
E	g7	Common reed	Phragmites communis		
C	g100	Perennial ryegrass	Lolium perenne	rLol p 1	Beta-Expansin
E	g12	Rye	Secale cereale		
C	g205	Timothy	Phleum pratense	rPhl p 1	Beta-Expansin
C	g206	Timothy	Phleum pratense	rPhl p 2	Expansin
C	g215	Timothy	Phleum pratense	rPhl p 5.0101	grass Group 5/6
C	g209	Timothy	Phleum pratense	rPhl p 6	grass Group 5/6
C	g210	Timothy	Phleum pratense	rPhl p 7	Polcalcin
C	g212	Timothy	Phleum pratense	rPhl p 12	Profilin
<b>Tree Pollen</b>					
E	t19	Acacia	Acacia mimosa		
C	t100	Alder	Alnus glutinosa	rAln g 1	PR-10
C	t101	Alder	Alnus glutinosa	rAln g 4	Polcalcin
C	t226	Arizona cypress	Cupressus arizonica	nCup a 1	Pectate Lyase
E	t25	Ash	Fraxinus excelsior		
C	t103	Ash	Fraxinus excelsior	rFra e 1	Ole e 1-Family
C	t300	Beech	Fagus sylvatica	rFag s 1	PR-10
E	t14	Cottonwood	Populus nigra		
E	t222	Cypress	Cupressus sempervirens		
C	t105	Date palm	Phoenix dactylifera	rPho d 2	Profilin

E	t8	Elm	Ulmus campestris		
E	t4	Hazel	Corylus avellana		
C	t102	Hazel	Corylus avellana	rCor a 1.0103	PR-10
C	t241	London plane tree	Platanus acerifolia	rPla a 1	Plant Invertase
C	t301	London plane tree	Platanus acerifolia	nPla a 2	Polygalacturonase
C	t302	London plane tree	Platanus acerifolia	rPla a 3	nsLTP
E	t63	Mountain cedar	Juniperus ashei		
E	t71	Mulberry tree	Morus rubra		
C	t224	Olive	Olea Europaea	nOle e 1	Ole e 1-Family
C	t240	Olive	Olea Europaea	rOle e 9	1,3 β Glucanase
E	t305	Paper mulberry	Broussonetia papyrifera	Bro p	
C	t215	Silver birch	Betula verrucosa	rBet v 1	PR-10
C	t216	Silver birch	Betula verrucosa	rBet v 2	Profilin
C	t225	Silver birch	Betula verrucosa	rBet v 6	Isoflavon Reductase
C	t303	Sugi	Cryptomeria japonica	rCry j 1	Pectate Lyase
E	t304	Tree of heaven	Ailanthus altissima		
E	t10	Walnut	Juglans regia		
<b>Weed Pollen</b>					
C	w301	Annual mercury	Mercurialis annua	rMer a 1	Profilin
E	w300	Hemp (CBD)	Cannabis sativa		
C	w302	Hemp	Cannabis sativa	rCan s 3	nsLTP
E	w10	Lamb's quarter	Chenopodium album		
C	w100	Lamb's quarter	Chenopodium album	rChe a 1	Ole e 1-Family
E	w6	Mugwort	Artemisia vulgaris		
C	w231	Mugwort	Artemisia vulgaris	rArt v 1.0101	Plant Defensin
C	w233	Mugwort	Artemisia vulgaris	rArt v 3.0201	nsLTP
E	w20	Nettle	Urtica dioica		

E	w14	Pigweed	Amaranthus retroflexus		
E	w1	Ragweed	Ambrosia artemisiifolia		
C	w230	Ragweed	Ambrosia artemisiifolia	rAmb a 1	Pectate Lyase
C	w300	Ragweed	Ambrosia artemisiifolia	rAmb a 4	Plant Defensin
E	w9	Ribwort	Plantago lanceolata		
C	w234	Ribwort	Plantago lanceolata	rPla l 1	Ole e 1-Family
E	w11	Russian thistle	Salsola kali		
C	w232	Russian thistle	Salsola kali	rSal k 1	Pectin Methylesterase
E	w21	Wall pellitory	Parietaria judaica		
C	w211	Wall pellitory	Parietaria judaica	rPar j 2	nsLTP
<b>Dander &amp; Epithelia</b>					
C	e94	Cat	Felis domesticus	rFel d 1	Uteroglobin
C	e220	Cat	Felis domesticus	nFel d 2	Serum Albumin
C	e228	Cat	Felis domesticus	rFel d 4	Lipocalin
C	e300	Cat	Felis domesticus	rFel d 7	Lipocalin
C	e100	Cattle	Bos domesticus	rBos d 2	Lipocalin
C	e301	Djungarian hamster	Phodopus sungorus	rPhod s 1	Lipocalin
C	e101	Dog	Canis familiaris	rCan f 1	Lipocalin
C	e102	Dog	Canis familiaris	rCan f 2	Lipocalin
C	e221	Dog	Canis familiaris	nCan f 3	Serum Albumin
C	e302	Dog	Canis familiaris	rCan f 4	Lipocalin
E	e308	Dog, male urine (incl. Can f 5)	Canis familiaris		
C	e303	Dog	Canis familiaris	rCan f 6	Lipocalin
C	e304	Dog	Canis familiaris	rCan f Fel d 1 like	Fel d 1 like
E	e80	Goat	Capra hircus		
C	e305	Guinea pig	Cavia porcellus	rCav p 1	Lipocalin
C	e227	Horse	Equus caballus	rEqu c 1	Lipocalin

C	e306	Horse	Equus caballus	nEqu c 3	Serum Albumin
C	e307	Horse	Equus caballus	rEqu c 4	Latherin
C	e103	Mouse	Mus musculus	rMus m 1	Lipocalin
E	e83	Pig	Sus domesticus		
C	e309	Rabbit	Oryctolagus cuniculus	rOry c 1	Lipocalin
C	e310	Rabbit	Oryctolagus cuniculus	rOry c 2	Lipocalin
C	e311	Rabbit	Oryctolagus cuniculus	rOry c 3	Secretoglobulin
E	e73	Rat	Rattus norvegicus		
E	e81	Sheep	Ovis aries		
<b>Mites &amp; Cockroaches</b>					
E	d70	Acarus siro	Acarus siro		
E	i206	American cockroach	Periplaneta americana		
C	i300	American cockroach	Periplaneta americana	rPer a 7	Tropomyosin
C	d100	American house dust mite	Dermatophagoides farinae	rDer f 1	Cysteine Protease
C	d101	American house dust mite	Dermatophagoides farinae	rDer f 2	NPC2 Family
C	d300	Blomia tropicalis	Blomia tropicalis	rBlo t 5	Mite, Group 5
C	d301	Blomia tropicalis	Blomia tropicalis	rBlo t 10	Tropomyosin
C	d302	Blomia tropicalis	Blomia tropicalis	rBlo t 21	unknown
C	d202	European house dust mite	Dermatophagoides pteronyssinus	rDer p 1	Cysteine Protease
C	d203	European house dust mite	Dermatophagoides pteronyssinus	rDer p 2	NPC2 Family
C	d103	European house dust mite	Dermatophagoides pteronyssinus	rDer p 5	unknown
C	d104	European house dust mite	Dermatophagoides pteronyssinus	rDer p 7	Mite Group 7
C	d205	European house dust mite	Dermatophagoides pteronyssinus	rDer p 10	Tropomyosin
C	d102	European house dust mite	Dermatophagoides pteronyssinus	rDer p 11	Myosin, heavy chain
C	d303	European house dust mite	Dermatophagoides pteronyssinus	rDer p 20	Arginine Kinase
C	d304	European house dust mite	Dermatophagoides pteronyssinus	rDer p 21	unknown
C	d209	European house dust mite	Dermatophagoides pteronyssinus	rDer p 23	Peritrophin-like protein domain

C	i100	German cockroach	Blatella germanica	rBla g 1	Cockroach group 1
C	i101	German cockroach	Blatella germanica	rBla g 2	Aspartyl protease
C	i102	German cockroach	Blatella germanica	rBla g 4	Calycin
C	i103	German cockroach	Blatella germanica	rBla g 5	Glutathione S-transferase
C	i301	German cockroach	Blatella germanica	rBla g 9	Arginine Kinase
C	d105	Glycyphagus domesticus	Glycyphagus domesticus	rGly d 2	NPC2 Family
C	d305	Lepidoglyphus destructor	Lepidoglyphus destructor	rLep d 2	NPC2 Family
E	d72	Tyrophagus putrescentiae	Tyrophagus putrescentiae		
C	d306	Tyrophagus putrescentiae	Tyrophagus putrescentiae	rTyr p 2	NPC2 Family
<b>Moulds &amp; Yeasts</b>					
C	m229	Alternaria alternata	Alternaria alternata	rAlt a 1	Alt a 1-Family
C	m230	Alternaria alternata	Alternaria alternata	rAlt a 6	Enolase
C	m218	Aspergillus fumigatus	Aspergillus fumigatus	rAsp f 1	Mitogillin Family
C	m220	Aspergillus fumigatus	Aspergillus fumigatus	rAsp f 3	Peroxisomal Protein
C	m221	Aspergillus fumigatus	Aspergillus fumigatus	rAsp f 4	unknown
C	m222	Aspergillus fumigatus	Aspergillus fumigatus	rAsp f 6	Mn Superoxid-Dismutase
E	m2	Cladosporium herbarum	Cladosporium herbarum		
C	m100	Cladosporium herbarum	Cladosporium herbarum	rCla h 8	Short Chain Dehydrogenase
C	y2	Malassezia sympodialis	Malassezia sympodialis	rMala s 5	unknown
C	y3	Malassezia sympodialis	Malassezia sympodialis	rMala s 6	Cyclophilin
C	y5	Malassezia sympodialis	Malassezia sympodialis	rMala s 11	Mn Superoxid-Dismutase
E	m1	Penicilium chrysogenum	Penicilium chrysogenum		
<b>Insect Venoms</b>					
E	i3	Common wasp venom	Vespula vulgaris		
C	i211	Common wasp venom	Vespula vulgaris	rVes v 1	Phospholipase A1
C	i209	Common wasp venom	Vespula vulgaris	rVes v 5	Antigen 5
E	i70	Fire ant venom	Solenopsis richteri & Solenopsis invicta	Sol spp.	

E	i1	Honey bee venom	Apis mellifera		
C	i208	Honey bee venom	Apis mellifera	nApi m 1	Phospholipase A2
C	i217	Honey bee venom	Apis mellifera	rApi m 10	Icarapin Variant 2
E	i25	Long-headed wasp venom	Dolichovespula spp.		
E	i4	Paper wasp venom		Pol d	
C	i210	Paper wasp venom	Polistes dominulus	rPol d 5	Antigen 5
<b>Cereals &amp; Seeds</b>					
E	f6	Barley	Hordeum vulgare		
E	f11	Buckwheat	Fagopyrum esculentum		
C	f508	Buckwheat	Fagopyrum esculentum	nFag e 2	2S Albumin
E	f8	Corn, cereal	Zea mays		
C	f523	Corn, cereal	Zea mays	rZea m 14	nsLTP
E	f5	Cultivated rye	Secale cereale		
E	f305	Fenugreek seeds	Trigonella foenum-graecum		
E	f55	Millet	Panicum miliaceum		
E	f7	Oat	Avena sativa		
E	f224	Poppy seed	Papaver somniferum		
C	f516	Poppy seed	Papaver somniferum	nPap s 2S Albumin	2S Albumin
E	f226	Pumpkin seed	Cucurbita pepo		
E	f347	Quinoa	Chenopodium quinoa		
E	f9	Rice	Oryza sativa		
E	f10	Sesame	Sesamum indicum		
C	f518	Sesame	Sesamum indicum	nSes i 1	2S Albumin
E	f124	Spelt	Triticum spelta		
E	k84	Sunflower seed	Helianthus annuus		
C	f542	Wheat	Triticum aestivum	rTri a 14	nsLTP

C	f543	Wheat	Triticum aestivum	rTri a 19	Omega-5-Gliadin
C	f544	Wheat	Triticum aestivum	nTri a aA_TI	Alpha-Amylase Trypsin-Inhibitor
<b>Egg &amp; Milk</b>					
E	f506	Camel's milk	Camelus dromedarius		
E	f2	Cow's milk	Bos domesticus		
C	f76	Cow's milk	Bos domesticus	nBos d 4	$\alpha$ -Lactalbumin
C	f77	Cow's milk	Bos domesticus	nBos d 5	$\beta$ -Lactoglobulin
C	f78	Cow's milk	Bos domesticus	nBos d 8	Casein
E	f1	Egg white	Gallus domesticus		
C	f233	Egg white	Gallus domesticus	nGal d 1	Ovomucoid
C	f232	Egg white	Gallus domesticus	nGal d 2	Ovalbumin
C	f323	Egg white	Gallus domesticus	nGal d 3	Ovotransferrin
C	k208	Egg white	Gallus domesticus	nGal d 4	Lysozym C
E	f75	Egg yolk	Gallus domesticus		
C	f510	Egg yolk	Gallus domesticus	nGal d 5	Serum Albumin
E	f300	Goat's milk	Capra hircus		
E	f286	Mare's milk	Equus caballus		
E	f325	Sheep's milk	Ovis aries		
<b>Fruits</b>					
C	f434	Apple	Malus domestica	rMal d 1	PR-10
C	f514	Apple	Malus domestica	nMal d 2	TLP
C	f435	Apple	Malus domestica	rMal d 3	nsLTP
E	f96	Avocado	Persea americana		
E	f92	Banana	Musa acuminata		
E	f288	Blueberry	Vaccinium myrtillus		
E	f242	Cherry	Prunus spp.		

E	f328	Fig	Ficus carica		
C	f521	Grape	Vitis vinifera	rVit v 1	nsLTP
C	f500	Kiwi	Actinidia deliciosa	nAct d 1	Cysteine Protease
C	f503	Kiwi	Actinidia deliciosa	nAct d 2	TLP
C	f501	Kiwi	Actinidia deliciosa	nAct d 5	Kiwelin
C	f502	Kiwi	Actinidia deliciosa	nAct d 10	nsLTP
E	f91	Mango	Mangifera indica		
C	f528	Muskmelon	Cucumis melo	rCuc m 2	Profilin
E	f33	Orange	Citrus sinensis		
E	f293	Papaya	Carica papaya		
C	f420	Peach	Prunus persica	Pru p 3	nsLTP
E	f94	Pear	Pyrus communis		
C-Mix	f44	Strawberry	Fragaria ananassa	rFra a 1 + rFra a 3	PR-10+LTP
<b>Legumes &amp; Nuts</b>					
E	f20	Almond	Prunus dulcis		
E	f18	Brazil nut	Bertholletia excelsa		
C	f354	Brazil nut	Bertholletia excelsa	rBer e 1	2S Albumin
E	f202	Cashew	Anacardium occidentale		
C	f550	Cashew	Anacardium occidentale	rAna o 2	11S Globulin
C	f443	Cashew	Anacardium occidentale	rAna o 3	2S Albumin
E	f309	Chickpea	Cicer arietinus		
E	f315	Green bean	Phaseolus vulgaris		
C	f428	Hazelnut	Corylus avellana	rCor a 1.0401	PR-10
C	f425	Hazelnut	Corylus avellana	rCor a 8	nsLTP
C	f440	Hazelnut	Corylus avellana	nCor a 9	11S Globulin
C	f522	Hazelnut	Corylus avellana	nCor a 11	7/8S Globulin
C	f439	Hazelnut	Corylus avellana	rCor a 14	2S Albumin



E	f235	Lentil	Lens culinaris		
E	f335	Lupine seed	Lupinus albus		
E	f345	Macadamia	Macadamia integrifolia		
C	f513	Macadamia	Macadamia integrifolia	nMac i 2S Albumin	2S Albumin
E	f12	Pea	Pisum sativum		
C	f422	Peanut	Arachis hypogea	nAra h 1	7/8S Globulin
C	f423	Peanut	Arachis hypogea	rAra h 2	2S Albumin
C	f424	Peanut	Arachis hypogea	nAra h 3	11S Globulin
C	f447	Peanut	Arachis hypogea	rAra h 6	2S Albumin
C	f352	Peanut	Arachis hypogea	rAra h 8	PR-10
C	f427	Peanut	Arachis hypogea	rAra h 9	nsLTP
C	f803	Peanut	Arachis hypogea	rAra h 15	Oleosin
E	f201	Pecan	Carya illinoensis		
C	f531	Pistachio	Pistacia vera	rPis v 1	2S Albumin
C	f532	Pistachio	Pistacia vera	nPis v 2	11S Globulin subunit
C	f533	Pistachio	Pistacia vera	nPis v 3	7/8S Globulin
C	f353	Soy	Glycine max	rGly m 4	PR-10
C	f431	Soy	Glycine max	rGly m 5	7/8S Globulin
C	f432	Soy	Glycine max	nGly m 6	11S Globulin
C	f511	Soy	Glycine max	nGly m 8	2S Albumin
C	f441	Walnut	Juglans regia	nJug r 1	2S Albumin
C	f512	Walnut	Juglans regia	nJug r 2	7/8S Globulin
C	f539	Walnut	Juglans regia	rJug r 3	nsLTP
C	f540	Walnut	Juglans regia	nJug r 4	11S Globulin
C	f541	Walnut	Juglans regia	nJug r 6	7/8S Globulin

Meat					
E	f27	Beef	Bos domesticus		
C	e204	Beef	Bos domesticus	nBos d 6	Serum Albumin
E	f83	Chicken	Gallus domesticus		
E	f321	Horse	Equus caballus		
E	f526	House cricket	Acheta domesticus		
E	f88	Lamb	Ovis aries		
E	f527	Mealworm	Tenebrio molitor		
E	f553	Migratory locust	Locusta migratoria		
E	f26	Pig	Sus domesticus		
C	f530	Pig	Sus domesticus	rSus d 1	Serum Albumin
E	f213	Rabbit	Oryctolagus spp.		
E	f284	Turkey	Meleagris gallopavo		
Seafood					
C	p10	Anisakis simplex	Anisakis simplex	rAni s 1	Kunitz Serin Protease Inhibitor
C	p11	Anisakis simplex	Anisakis simplex	rAni s 3	Tropomyosin
E	f3	Atlantic cod	Gadus morhua		
C	f509	Atlantic cod	Gadus morhua	nGad m 1	$\beta$ -Parvalbumin
C-Mix	f805	Atlantic cod	Gadus morhua	nGad m 2&3	$\beta$ -Enolase&Aldolase
E	f205	Atlantic herring	Clupea harengus		
C	f525	Atlantic herring	Clupea harengus	rClu h 1	$\beta$ -Parvalbumin
E	f206	Atlantic mackerel	Scomber scombrus		
C	f551	Atlantic mackerel	Scomber scombrus	rSco s 1	$\beta$ -Parvalbumin
C	f517	Black-Tiger shrimp	Penaeus monodon	rPen m 1	Tropomyosin
C	f545	Black-Tiger shrimp	Penaeus monodon	rPen m 2	Arginine Kinase
C	f552	Black-Tiger shrimp	Penaeus monodon	rPen m 3	Myosin light chain

C	f524	Black-Tiger shrimp	Penaeus monodon	rPen m 4	Sarcoplasmic Calcium Binding Protein
C	f529	Brown shrimp	Crangon crangon	rCra c 6	Troponin C
C	f355	Carp	Cyprinus carpio	rCyp c 1	β-Parvalbumin
E	f37	Common mussel	Mytilus edulis		
E	f23	Crab	Chionoecetes spp.		
E	f80	Lobster	Homarus gammarus		
E	f515	Northern prawn	Pandalus borealis		
E	f290	Oyster	Ostrea edulis		
E	f41	Salmon	Salmo salar		
E	f534	Salmon	Salmo salar	rSal s 1	β-Parvalbumin
E	f338	Scallop	Pecten spp.		
E	f24	Shrimp mix	Litopaenaeus setiferus, Farfantepenaeus aztecus, Farfantepenaeus dourarum		
E	f258	Squid	Loligo spp.		
C	f537	Swordfish	Xiphias gladius	rXip g 1	β-Parvalbumin
E	f535	Thornback ray	Raja clavata		
C	f536	Thornback ray	Raja clavata	rRaj c Parvalbumin	α-Parvalbumin
E	f40	Tuna	Thunnus albacares		
C	f538	Tuna	Thunnus albacares	Thu a 1	β-Parvalbumin
E	f207	Venus clam	Ruditapes spp.		
<b>Spices</b>					
E	f271	Anise	Pimpinella anisum		
E	f265	Caraway	Carum carvi		
E	f89	Mustard	Brassica / Sinapis spp.		
C	f519	Mustard	Brassica / Sinapis spp.	rSin a 1	2S Albumin

E	f283	Oregano	Origanum vulgare		
E	f218	Paprika	Capsicum annuum		
E	f86	Parsley	Petroselinum crispum		
<b>Vegetables</b>					
E	f31	Carott	Daucus carota		
C	f507	Carott	Daucus carota	rDau c 1	PR-10
C	f417	Celery	Apium graveolens	rApi g 1	PR-10
C	f504	Celery	Apium graveolens	rApi g 2	nsLTP
C	f505	Celery	Apium graveolens	rApi g 6	nsLTP
E	f47	Garlic	Allium sativum		
E	f48	Onion	Allium cepa		
E	f35	Potato	Solanum tuberosum		
E	f25	Tomato	Solanum lycopersicum		
C	f520	Tomato	Solanum lycopersicum	rSola l 6	nsLTP
<b>Others</b>					
E	f45	Baker's yeast	Sacccaromyces cerevisiae		
C	o214	Hom s lactoferrin		rHom s LF	CCD
C	k215	Latex	Hevea brasiliensis	rHev b 1	Rubber elongation factor
C	k217	Latex	Hevea brasiliensis	rHev b 3	small rubber particle protein
C	k218	Latex	Hevea brasiliensis	rHev b 5	unknown
C	k220	Latex	Hevea brasiliensis	rHev b 6.02	Pro-Hevein
C	k221	Latex	Hevea brasiliensis	rHev b 8	Profilin
C	k224	Latex	Hevea brasiliensis	rHev b 11	Class 1 Chitinase
C	o100	Pigeon tick	Argas reflexus	rArg r 1	Lipocalin
E	k81	Weeping fig	Ficus benjamina		

Research use only					
C	RUO-e800	Golden hamster	Mesocricetus auratus	rMes a 1	Lipocalin
C	RUO-f800	Hazelnut	Corylus avellana	rCor a 12	Oleolin
C	RUO-t227	Olive	Olea Europaea	rOle e 7	nsLTP
C	RUO-f801	Peach	Prunus persica	rPru p 7	Gibberellin-regulated protein
C	RUO-f804	Pistachio	Pistacia vera	rPis v 4	Mn Superoxid-Dismutase

Allergy Explorer<sup>2</sup> – flexible.reliable.affordable.

[www.macroarraydx.com](http://www.macroarraydx.com)

Macro Array Diagnostics  
Lemböckgasse 59/TOP 4  
1230 Wien  
T: +43 1 865 25 73  
E: office@macroarraydx.com

SD-REC-008

06-2020