

## Srovnání testovaných alergenů ALEX vs. ALEX2

Název	Alergen	E/M	ALEX	ALEX2	CCD	Funkce
<b>Pyly</b>						
<b>Pyly trav</b>						
Bojínek	Phl p	E	✓	✗		
	Phl p 1	M	✓	✓		Beta-Expansin
	Phl p 2	M	✓	✓		Expansin
	Phl p 5.0101	M	✓	✓		Grass Goup 5/6
	Phl p 6	M	✓	✓		Grass Goup 5/6
	Phl p 7	M	✓	✓		Polcalcin
	Phl p 12	M	✓	✓		Profilin
Čirok	Sor h	E	✓	✗		
Jílek	Lol p 1	M	✓	✓	CCD	Beta-Expansin
Kukuřice	Zea m_pollen	E	✓	✗		
Paspal	Pas n	E	✓	✓	CCD	
Rákos	Phr c	E	✓	✓	CCD	
Troskut	Cyn d	E	✓	✓	CCD	
	Cyn d 1	M	✗	✓		Beta-Expansin
Žito	Sec c_pollen	E	✓	✓	CCD	
<b>Pyly stromů</b>						
Akácie	Aca m	E	✓	✓	CCD	
Bříza	Bet v	E	✓	✗		
	Bet v 1	M	✓	✓		PR-10
	Bet v 2	M	✓	✓		Profilin
	Bet v 6	M	✓	✓		Isoflavon reductase
Buk	Fag s	E	✓	✗		
	Fag s 1	M	✗	✓		PR-10
Cypřiš	Cup s	E	✓	✓	CCD	
	Cup a 1	M	✓	✓	CCD	Pectate lyase
Datlovník	Pho d 2	M	✓	✓		Profilin
Dub	Que r	E	✓	✗		
Jalovec	Jun a	E	✓	✓	CCD	
Jasan	Fra e	E	✓	✓	CCD	
	Fra e 1	M	✓	✓		Ole e 1-Family
Jilm	Ulm c	E	✓	✓	CCD	
Kryptomerie japonská	Cry j	E	✓	✗		
	Cry j 1	M	✗	✓		Pectate lyase
Líska	Cor a_pollen	E	✓	✓	CCD	
	Cor a 1.0103	M	✓	✓		PR-10
Morušovník	Mor r	E	✓	✓	CCD	
Olivovník	Ole_pollen	E	✓	✗		
	Ole e 1	M	✓	✓	CCD	Ole e 1-Family
	Ole e 2	M	✓	✗		Profilin
	Ole e 9	M	✗	✓		1,3 Beta-Glucanase

Olše	Aln g	E	✓	✗		
	Aln g 1	M	✓	✓		PR-10
	Aln g 4	M	✓	✓		Polcalcin
Ořešák	Jug r_pollen	E	✓	✓	CCD	
Pajasan	Ail a	E	✗	✓	CCD	
Papírovník čínský	Bro pa	E	✗	✓	CCD	
Platan	Pla a	E	✓	✗		
	Pla a 1	M	✓	✓		Plant invertase
	Pla a 2	M	✗	✓	CCD	Polygalacturonase
	Pla a 3	M	✗	✓		Non-specific lipid transfer protein
Ptačí zob	Lig v	E	✓	✗		
Šeřík	Syr v	E	✓	✗		
Topol	Pop n	E	✓	✓	CCD	
<b>Pyly bylin</b>						
Ambrozie	Amb a	E	✓	✓	CCD	
	Amb a 1	M	✓	✓		Pectate lyase
	Amb a 4	M	✓	✓		Plant Defensin
Bažanka	Mer a	E	✓	✗		
	Mer a 1	M	✗	✓		Profilin
Drnavec	Par j	E	✓	✓	CCD	
	Par j 2	M	✓	✓		Non-specific lipid transfer protein
Jitrocel	Pla l	E	✓	✓	CCD	
	Pla l 1	M	✓	✓		Ole e 1-Family
Konopí	Can s	E	✗	✓	CCD	
	Can s 3	M	✗	✓		Non-specific lipid transfer protein
Kopřiva	Urt d	E	✓	✓	CCD	
Laskavec	Ama r	E	✓	✓	CCD	
Merlík	Che a	E	✓	✓	CCD	
	Che a 1	M	✓	✓		Ole e 1-Family
Pelyněk	Art v	E	✓	✓	CCD	
	Art v 1	M	✓	✓		Plant Defensin
	Art v 3	M	✓	✓		Non-specific lipid transfer protein
Slanobýl	Sal k	E	✓	✓	CCD	
	Sal k 1	M	✗	✓		Pectin Methylesterase
Šťovík	Rum a	E	✓	✗		
<b>Roztoči</b>						
<b>Roztoči domácího prachu</b>						
Dermatophagoides farinae	Der f	E	✓	✗		
	Der f 1	M	✓	✓		Cysteine protease
	Der f 2	M	✓	✓		NPC2 Family
Dermatophagoides pteronyssinus	Der p	E	✓	✗		
	Der p 1	M	✓	✓		Cysteine protease
	Der p 2	M	✓	✓		NPC2 Family
	Der p 5	M	✓	✓		neznámá
	Der p 7	M	✓	✓		Mite Group 7

	Der p 10	M	✓	✓		Tropomyosin
	Der p 11	M	✓	✓		Myosin, heavy chain
	Der p 20	M	✗	✓		Arginine kinase
	Der p 21	M	✗	✓		neznámá
	Der p 23	M	✓	✓		Peritrophin-like protein domain
<b>Roztoči potravin</b>						
Acarus siro	Aca s	E	✓	✓		
Blomia tropicalis	Blo t	E	✓	✗		
	Blo t 5	M	✗	✓		Mites Group 5
	Blo t 10	M	✗	✓		Tropomyosin
	Blo t 21	M	✗	✓		neznámá
Glycophagus domesticus	Gly d	E	✓	✗		
	Gly d 2	M	✓	✓		NPC2 Family
Lepidoglyphus destructor	Lep d	E	✓	✗		
	Lep d 2	M	✗	✓		NPC2 Family
Tyrophagus putrescentiae	Tyr p	E	✓	✓		
	Tyr p 2	M	✗	✓		NPC2 Family
<b>Mikroorganismy a spóry</b>						
<b>Kvasinky</b>						
Candida albicans	Can a	E	✓	✗		
Malassezia sympodialis	Mala s 1	M	✓	✗		neznámá
	Mala s 5	M	✓	✓		neznámá
	Mala s 6	M	✓	✓		Cyclophilin
	Mala s 9	M	✓	✗		Mn superoxide dismutase
	Mala s 11	M	✓	✓		Mn superoxide dismutase
Saccharomyces cerevisiae	Sac c	E	✓	✓		
<b>Plísně</b>						
Alternaria alternata	Alt a	E	✓	✗		
	Alt a 1	M	✓	✓		Alt a 1 family
	Alt a 6	M	✗	✓		Enolase
Aspergillus fumigatus	Asp f	E	✓	✗		
	Asp f 1	M	✗	✓		Mitogillin Family
	Asp f 3	M	✓	✓		Peroxisomal protein
	Asp f 4	M	✓	✓		neznámá
	Asp f 6	M	✓	✓		Mn superoxide dismutase
Cladosporium herbarum	Cla h	E	✓	✓		
	Cla h 8	M	✓	✓		Short Chain Dehydrogenase
Penicilium chrysogenum	Pen ch	E	✓	✓		
<b>Potravin rostlinného původu</b>						
<b>Luštěniny</b>						
Arašíd	Ara h	E	✓	✗	CCD	
	Ara h 1	M	✓	✓		7S Globulin
	Ara h 2	M	✓	✓		2S Albumin
	Ara h 3	M	✓	✓		11S Globulin
	Ara h 6	M	✓	✓		2S Albumin

	Ara h 8 Ara h 9 Ara h 15	M M M	✓ ✓ ✗	✓ ✓ ✓		PR-10 Non-specific lipid transfer protein Oleolin
Cizrna	Cic a	E	✓	✓	CCD	
Čočka	Len c	E	✓	✓	CCD	
Fazole	Pha v	E	✓	✓	CCD	
Hrách	Pis s	E	✓	✓	CCD	
Sója	Gly m Gly m 4 Gly m 5 Gly m 6 Gly m 8	E M M M M	✓ ✓ ✓ ✓ ✓	✗ ✓ ✓ ✓ ✓		PR-10 7S Globulin 11S Globulin 2S Albumin
<b>Cereálie</b>						
Ječmen	Hor v	E	✓	✓	CCD	
Kukuřice	Zea m Zea m 14	E M	✓ ✗	✓ ✓	CCD	Non-specific lipid transfer protein
Lupina	Lup a	E	✓	✓	CCD	
Merlík	Che q	E	✓	✓	CCD	
Oves	Ave s	E	✓	✓	CCD	
Pohanka	Fag e Fag e 2	E M	✓ ✓	✓ ✓	CCD	2S Albumin
Proso	Pan m	E	✓	✓	CCD	
Pšenice	Tri a Tri a Aa_TI Tri a 14 Tri a 19 Tri a Gliadin	E M M M M	✓ ✗ ✗ ✗ ✓	✗ ✓ ✓ ✓ ✗		Alpha-Amylase Trypsin-Inhibitor Non-specific lipid transfer protein Omega-5-Gliadin Gliadin
Pšenice špalda	Tri s	E	✓	✓	CCD	
Rýže	Ory s	E	✓	✓	CCD	
Žito	Sec c_flour	E	✓	✓	CCD	
<b>Koření</b>						
Anýz	Pim a	E	✓	✓	CCD	
Hořčice	Sin Sin a 1	E M	✓ ✓	✓ ✓	CCD	2S Albumin
Kmín	Car c	E	✓	✓	CCD	
Oregano	Ori v	E	✓	✓	CCD	
Paprika	Cap a	E	✓	✓	CCD	
Petržel	Pet c	E	✓	✓	CCD	
<b>Ovoce</b>						
Banán	Mus a	E	✓	✓	CCD	
Borůvka	Vac m	E	✓	✓		
Broskev	Pru p Pru p 3	E M	✓ ✓	✗ ✓		Non-specific lipid transfer protein
Fík	Fic c	E	✓	✓	CCD	
Hroznové víno	Vit v 1	M	✓	✓		Non-specific lipid transfer protein

Hruška	Pyr c	E	✓	✓	CCD	
Jablko	Mal d	E	✓	✗		
	Mal d 1	M	✓	✓		PR-10
	Mal d 2	M	✓	✓	CCD	Thaumatin-like protein
	Mal d 3	M	✓	✓		Non-specific lipid transfer protein
Jahoda	Fra a	E	✓	✗		
	Fra a 1+3	M	✗	✓		PR-10+LTP
Kiwi	Act d	E	✓	✗		
	Act d 1	M	✓	✓		Cysteine protease
	Act d 2	M	✓	✓	CCD	Thaumatin-like protein
	Act d 5	M	✓	✓		Kiwelin
	Act d 10	M	✓	✓		Non-specific lipid transfer protein
Liči	Lit c	E	✓	✗		
Mango	Man i	E	✓	✓	CCD	
Meloun cukrový	Cuc m	E	✓	✗		
	Cuc m 2	M	✗	✓		Profilin
Ostružina	Rub i	E	✓	✗	CCD	
Papája	Car p	E	✓	✓	CCD	
Pomeranč	Cit s	E	✓	✓	CCD	
Švestka	Pru do	E	✓	✗		
Třešeň	Pru av	E	✓	✓	CCD	
<b>Zelenina a houby</b>						
Avokádo	Pers a	E	✓	✓	CCD	
Brambory	Sol t	E	✓	✓	CCD	
Celer	Api g	E	✓	✗		
	Api g 1	M	✓	✓		PR-10
	Api g 2	M	✓	✓		Non-specific lipid transfer protein
	Api g 6	M	✓	✓		Non-specific lipid transfer protein
Cibule	All c	E	✓	✓	CCD	
Česnek	All s	E	✓	✓	CCD	
Hlávkové zelí	Bra o	E	✓	✗		
Locika	Lac s	E	✓	✗		
Mrkev	Dau c	E	✓	✓	CCD	
	Dau c 1	M	✓	✓		PR-10
Oliva	Ole_fruit	E	✓	✗		
Rajče	Sola l	E	✓	✓	CCD	
	Sola l 6	M	✓	✓		Non-specific lipid transfer protein
Žampion	Aga b	E	✓	✗		
<b>Ořechy</b>						
Kešu	Ana o	E	✓	✓	CCD	
	Ana o 2	M	✗	✓		11S Globulin
	Ana o 3	M	✓	✓		2S Albumin
Lískový ořech	Cor a_hazel	E	✓	✗		
	Cor a 1.0401	M	✓	✓		PR-10
	Cor a 8	M	✓	✓		Non-specific lipid transfer protein

	Cor a 9	M	✓	✓	CCD	11S Globulin
	Cor a 11	M	✓	✓	CCD	7S Globulin
	Cor a 14	M	✓	✓		2S Albumin
Makadamový ořech	Mac inte	E	✓	✓	CCD	
	Mac i 2S Albumin	M	✓	✓		2S Albumin
Mandle	Pru du	E	✓	✓	CCD	
Para ořech	Ber e	E	✓	✓	CCD	
	Ber e 1	M	✓	✓		2S Albumin
Pekanový ořech	Car i	E	✓	✓	CCD	
Pistácie	Pis v	E	✓	✗		
	Pis v 1	M	✗	✓		2S Albumin
	Pis v 2	M	✗	✓		11S Globulin subunit
	Pis v 3	M	✗	✓	CCD	7S Globulin
Vlašský ořech	Jug r_nut	E	✓	✗		
	Jug r 1	M	✓	✓		2S Albumin
	Jug r 2	M	✓	✓	CCD	7S Globulin
	Jug r 3	M	✗	✓		Non-specific lipid transfer protein
	Jug r 4	M	✗	✓		11S Globulin
	Jug r 6	M	✗	✓	CCD	7S Globulin
<b>Semena</b>						
Dýňové semínko	Cuc p	E	✓	✓	CCD	
Mák	Pap s	E	✓	✓	CCD	
	Pap s 2S Albumin	M	✓	✓		2S Albumin
Semena pískavice	Tri fo	E	✗	✓	CCD	
Sezam	Ses i	E	✓	✓	CCD	
	Ses i 1	M	✓	✓		2S Albumin
Slunečnicové semínko	Hel a	E	✓	✓	CCD	
<b>Potraviny živočišného původu</b>						
<b>Mléko</b>						
Kobylí mléko	Equ c_milk	E	✓	✓		
Kozí mléko	Cap h_milk	E	✓	✓		
Kravné mléko	Bos d_milk	E	✓	✓		
	Bos d 4	M	✓	✓		Alfa-lactalbumin
	Bos d 5	M	✓	✓		Beta-lactoglobulin
	Bos d 8	M	✓	✓		Caseins
Ovčí mléko	Ovi a_milk	E	✓	✓		
Velbloudí mléko	Cam d	E	✓	✓		
<b>Vejce</b>						
Vaječný bílek	Gal d_white	E	✓	✓		
	Gal d 1	M	✓	✓		Ovomucoid
	Gal d 2	M	✓	✓		Ovalbumin
	Gal d 3	M	✓	✓		Ovotransferrin
	Gal d 4	M	✓	✓		Lysozyme C
Vaječný žloutek	Gal d_yolk	E	✓	✓		
	Gal d 5	M	✓	✓		Serum albumin

Ryby a mořské plody						
Anisakis	Ani s 1	M	✓	✓		Inhibitor Serinové Proteázy
	Ani s 3	M	✓	✓		Tropomyosin
Garnát obecný	Cra c 6	M	✗	✓		Troponin C
Hřebenatka	Pec spp.	E	✓	✓		
Humr	Hom g	E	✓	✓		
Kapr	Cyp c 1	M	✓	✓		Beta-parvalbumin
Krab	Chi spp.	E	✓	✓	CCD	
Kreveta tygří	Pen m 1	M	✓	✓		Tropomyosin
	Pen m 2	M	✗	✓		Arginine kinase
	Pen m 3	M	✗	✓		Myosin, light chain
	Pen m 4	M	✗	✓		Sarcoplasmic Ca Binding Protein
Krevetka severní	Pan b	E	✓	✓		
Krevety	Lit s	E	✓	✓		
Losos	Sal s	E	✓	✓		
	Sal s 1	M	✗	✓		Beta-parvalbumin
Makrela obecná	Sco s	E	✗	✓		
	Sco s 1	M	✗	✓		Beta-parvalbumin
Mečoun obecný	Xip g 1	M	✗	✓		Beta-parvalbumin
Oliheň Lol spp.	Lol spp.	E	✓	✓		
Rejnok ostnatý	Raj c	E	✗	✓		
	Raj c parvalbumin	M	✗	✓		Alfa-parvalbumin
Slávka	Myt e	E	✓	✓	CCD	
Sled'	Clu h	E	✗	✓		
	Clu h 1	M	✗	✓		Beta-parvalbumin
Škeble	Rud spp.	E	✓	✓		
Treska	Gad m	E	✓	✓		
	Gad m 1	M	✓	✓		Beta-parvalbumin
	Gad m 2+3	M	✗	✓		Beta- Enolase a Aldolase
Tuňák	Thu a	E	✓	✓		
	Thu a 1	M	✗	✓		Beta-parvalbumin
Ústřice	Ost e	E	✓	✓	CCD	
Maso						
Cvrček domácí	Ach d	E	✗	✓		
Hovězí maso	Bos d_meat	E	✓	✓		
	Bos d 6	M	✓	✓		Serum albumin
Jehněčí maso	Ovi a_meat	E	✓	✓		
Koňské maso	Equ c_meat	E	✓	✓		
Králičí maso	Ory_meat	E	✓	✓		
Krůtí maso	Mel g	E	✓	✓		
Kuřecí maso	Gal d_meat	E	✓	✓		
Moučný červ	Ten m	E	✗	✓		
Saranče stěhovavá	Loc m	E	✗	✓		
Vepřové maso	Sus d_meat	E	✓	✓		
	Sus d 1	M	✗	✓		Serum albumin

Jed blanokřídlého hmyzu a hmyz						
<b>Jed ohnivého mravence</b>						
Ohnivý mravenec	Sol spp.	E	✘	✓	CCD	
<b>Včela</b>						
Včela	Api m	E	✓	✓	CCD	
	Api m 1	M	✓	✓	CCD	Phospholipase A2
	Api m 2	M	✓	✘		Hyaluronidase
	Api m 10	M	✓	✓		Icarapin variant 2
<b>Vosa</b>						
Dolichovespula	Dol spp	E	✓	✓	CCD	
Vosa	Ves v	E	✓	✓	CCD	
	Ves v 1	M	✘	✓		Phospholipase A1
	Ves v 5	M	✓	✓		Antigen 5
Vosík	Pol d	E	✓	✓	CCD	
	Pol d 5	M	✓	✓		Antigen 5
<b>Švábi</b>						
Rus	Bla g	E	✓	✘		
	Bla g 1	M	✓	✓		Cockroach group 1
	Bla g 2	M	✓	✓		Aspartic protease
	Bla g 4	M	✓	✓		Lipocalin
	Bla g 5	M	✓	✓		Glutathione S-transferase
	Bla g 9	M	✘	✓		Arginine kinase
Šváb	Per a	E	✓	✓	CCD	
	Per a 7	M	✓	✓		Tropomyosin
<b>Zvířecí alergeny</b>						
<b>Domácí zvířata</b>						
Kočka	Fel d	E	✓	✘		
	Fel d 1	M	✓	✓		Uteroglobin
	Fel d 2	M	✓	✓		Serum albumin
	Fel d 4	M	✓	✓		Lipocalin
	Fel d 7	M	✘	✓		Lipocalin
Králík	Ory_epithelia	E	✓	✘		Lipocalin
	Ory c 1	M	✘	✓		Lipocalin
	Ory c 2	M	✘	✓		Lipocalin
	Ory c 3	M	✘	✓		Uteroglobin
Křeček	Cri c	M	✓	✘		
Křeček džungarský	Phod s 1	M	✘	✓		Lipocalin
Morče	Cav p	E	✓	✘		
	Cav p 1	M	✘	✓		Lipocalin
Myš	Mus m 1	M	✓	✓		Lipocalin
Pes	Can f	E	✓	✘		
	Can f_Fd1	M	✘	✓		Uteroglobin
	Can f 1	M	✓	✓		Lipocalin
	Can f 2	M	✓	✓		Lipocalin
	Can f 3	M	✓	✓		Serum albumin



Psí moč (vč. Can f 5)	Can f 4	M	✘	✓		Lipocalin
	Can f 6	M	✘	✓		Lipocalin
	Can f_male urine	E	✘	✓		
Potkan	Rat n	E	✓	✓		
<b>Hospodářská zvířata</b>						
Hovězí dobytek	Bos d_epithelia	E	✓	✘		
	Bos d 2	M	✓	✓		Lipocalin
Koza	Cap h_epithelia	E	✓	✓		
Kůň	Equ c_epithelia	E	✓	✘		
	Equ c 1	M	✓	✓		Lipocalin
	Equ c 3	M	✘	✓		Serum albumin
	Equ c 4	M	✘	✓		Latherin
Ovce	Ovi a_epithelia	E	✓	✓		
Prase	Sus d_epithelia	E	✓	✓		
<b>Ostatní</b>						
<b>Latex</b>						
Latex	Hev b	E	✓	✘		
	Hev b 1	M	✓	✓		Rubber elongation factor
	Hev b 3	M	✓	✓		Protein drobných částic latexu
	Hev b 5	M	✓	✓		neznámá
	Hev b 6.02	M	✓	✓		Hevein precursor
	Hev b 8	M	✓	✓		Profilin
	Hev b 11	M	✓	✓		Class 1 Chitinase
<b>Rostliny</b>						
Fíkus	Fic b	E	✓	✓	CCD	
Chmel	Hum l	E	✓	✘		
<b>CCD</b>						
Ananas	Ana c 2	M	✓	✘		
Laktoferin	Hom s LF	M	✓	✓	CCD	
<b>Parazit</b>						
Klíšťák holubí	Arg r 1	M	✘	✓		Lipocalin