## List of Updates to the WHO/IUIS Allergen Nomenclature Database

	Inhaled, indoor									
Allergen	Isoallergen	PDB Entry	Identity	Isoallergen	PDB Entry	Identity	< 25% Identity	Notes		
Blo t 19	19.0101 2MFJ		100.0%							
Blo t 12	12.0101 2MFK		89.1%							
Der f 1	1.0106 3D6S/	/3RVV	100.0%							
Der p 1	1.0105 1XKG	&	99.1%	1.0102 3RV	W, 3RVX, 4PP1, 4PP2	100.0%		&: C to A + N52D, otherwise 100%		
Dei þí	2AS8/	/3F5V *	99.6%					Der p 1.0105 (also *)		
Der f 13	13.0101 2A0A		100.0%							
Blag5	5.0101 4Q5R		100.0%							
Blo t 8	8.0101 4Q5N		100.0%							
Der p 8	8.0101 4Q5Q		100.0%							
Bla g 1	1.0101 4JRB		100.0%							
	3LIZ_/	A *	99.7%					4RLD is the KKF mutant. The others would be		
Bla g 2	2.0101 1YG9,	/2NR6_A *	99.7%					100% identical to 0101, but they have a		
	4RLD	*, &	98.8%					silenced N-glycosylation site.		
Der f 2	2.0101 2F08/1AHK/1AHM/1WRF		100.09/	2.0103 1XV	VV	100.0%				
Der 12	2.0101 2508/	IAUK/IAUM/IMKL	100.0%							
Der p 2	2.0101 1KTJ/	1A9V	100.0%							
Blag4	4.0101 3EBK/	/4N7D	96.6%							
Bos d 2	2.0101 1BJ7/	4WFU/4WFV	100.0%							
Can f 2	2.0101 3L4R		100.0%							
Can f 4	4.0101 40DD		97.5%							
Mus m 1	1.0101 1MUP		100.0%	1.0102 1JV	4, 1DF3	99.4%				
Mus m 1	1.0101 1JV4/	1DF3	99.4%							
								The Per a 4 sequence is not in		
Per a 4	4.0101 3EBW	4.0101 3EBW						WHO/IUIS database, and was		
								obtained from google		
D-+ 4			00.40/					Rat n 1 entry - 1MUP (actually		
Rat n 1	1.0101 2A2G	/2A2U	99.4%					belongs to Mus m 1)		
Der f 7	7.0101 3UV1		99.0%							
Der p 7	7.0101 3H4Z		100.0%							
Blo t 5	5.0101 2JMH	/2JRK/2MEY	100.0%							
Blo t 21	21.0101 2LM9		100.0%							
Der p 5	5.0101 3MQ1	l	100.0%							
	1.0101 1PUO		77.2%					"1.0101 chain 1" as listed in		
Fel d 1	1.0101 1ZKR/	<sup>/</sup> 2EJN	90-98.6%					WHO/IUIS database		

				lı	nhaled, outdoor			
Allergen	Isoallergen	PDB Entry	Identity	Isoallergen	PDB Entry	Identity	< 25% Identity	Notes
Zea m 1	1.0101 2HC	Z	97.4%					
Hev b 2	2.0101 4HPG/4IIS 96.5%		96.5%					
Ole e 9	9.0101 2JO	N	98.0%					
Asp f 11	11.0101 2C3	3	100.0%					
Art v 1	1.0101 2KP	1	100.0%					
Phl p 1	1.0102 1N1	0	100.0%					
Phl p 2	2.0101 1WH 1BM	HO/1WHP/2VXQ_A/ HW	100.0%					
PhI p 3 (should be PhI p 2)	2.0101 3FT1	L/3FT9/2JNZ	57.3%					The Phl p 3 sequence is no longer in WHO/IUIS database, because Phl p 2 comprises groups 2 and 3.
Chi t 1	1.0101 1ECA	A/1ECO/1ECD/1ECN	99.3%					
Hev b 6	6.01 1Q9B/1HEV/1T0W		100.0%					Hev b 6.02 and Hev b 6.03 are just
пеурб	6.01 1WK	X	97.7%					segments of Hev b 6.01
Equ c 1	1.0101 1EW	/3	100.0%					
Asp f 6	6.0101 1KK	C	100.0%					
Cla h 8	8.0101 3GD	F/3GDG	100.0%					
Asp f 1	1.0101 1AQ	Z	98.7%					
	4.0201 4PVE it seems 2*+1 aa change 4PVK/4PWC 4PVK/4PWC		99.6%					
Phl p 4			99.4%					
PIII p 4			99.2%					
			99.0%					
	1BV1/1FSK_A/1BTV		100.0%	1 0101 4Q	IP/4MNS/4BTZ/4A88	100.0%		
Bet v 1	1.0112 1LLT	•	99.4%	4B	KC/4BKD, 4BK7, 1B6F	99.4%		3K78 has been listed as
Det v 1	1QM	1R	97.5%	1.0106 4A	8U	100.0%		"obsolete" in PDB
	1.0107 1FM	4	100.0%					
Jun a 1	1.0101 1PXZ	7	100.0%					1.010101 needs to be corrected to 1.0101 in WHO/IUIS database
Bet v 4	4.0101 1H4	В	100.0%					
Che a 3	3.0101 2OP		100.0%					
Phl p 7	7.0101 1K9l	J/2LVK/2LVJ/2LVI	100.0%					
Ara t 8	<mark>???</mark> 1A0I		???					The Ara t 8 sequence is not in WHO/IUIS database

Bet v 2	2.0101 1CQA	96.2%	

Hev b 8	8.0204 1G5U	99.2%					
Equ c 3	3.0101 3V08	100.0%					1UOR is for human, so it should be removed from the database
Asp o 21	21.0101 6TAA/7TAA	99.4%	21.0101 2TAA		97.3%		
Alt a 1	1.0101 3V0R	100.0%	1.0102 4AU	)	99.2%		
Amb t 5	5.0101 1BBG/2BBG/3BBG	100.0%					
Ole e 6	6.0101 1SS3	100.0%					
Phl p 6	6.0101 1NLX	100.0%					
	5.0201 1L3P	99.0%	5.0204 1L3P		99.0%		
Phl p 5	5.0202 1L3P	99.0%	5.0206 1L3P		99.0%		
	5.0203 1L3P	99.0%					
	-		In	gested, food	-		
Allergen	Isoallergen PDB Entry	Identity	Isoallergen	PDB Entry	Identity	< 25% Identity	Notes
Ara h 3	3.0101 3C3V	95.5%					
Gly m 6	6.0101 1FXZ	100.0%	6.0501 2D5H	I/2D5F, 10D5	100.0%		
Pru du 6	6.0101 3FZ3	99.1%					
Ara h 2	2.0101 3OB4	100.0%					
Ara h 6	6.0101 1W2Q	92.7%					
Ber e 1	1.0101 2LVF	94.7%					1GYS is an homology model in PDB. So it should be removed from the database
Bra n 1	1.0101 1PNB:B	53.8%					
Ric c 1	1.0101 1PSY	97.6%					
Ara h 1	1.0101 3SMH	99.8%	1.0101 3S7E	/3571	100.0%		
Gly m 5	F 0202 1IPK	100.0%	5.0301 1IPJ		100.0%		
Gly III 5	5.0302 1IPK 1UIJ	99.5%					
Pis s 1						3KSC, 1PNB	
	9WGA/2WGC	97.1%.					
Tri a 18	Tri a 18.0101 4AML/2X3T/2UVO,	100.0%					
	2CWG/1WGC/7WGA	100.0%					
	1F6R/1F6S/2G4N	100.0%					
Bos d 4	4.0101 1HFZ	99.2%					
DUS U 4	4.0101 1HFY	94.3%					
	1HFX 67.8%						
Mus a 5	??? <mark>2CYG</mark>	???					The Mus a 5 sequence is not in WHO/IUIS database

	1000/2440	00.00/	
	1BSO/2AKQ	98.8%	9 41173 in like 4BCO plus a C124C
Bos d 5	5.0101 TUZ2	98.1%	& 1UZ2 is like 1BSO plus a C121S
	1GX8/1GX9/1GXA/2R56	100.0%	mutation
Act d 1 hom.	1.0101 2ACT	92.3%	Act c 1 is not in the database
Act a 1 nom.	1.0101 1AEC	99.1%	Act c 1 is not in the database
Act c 5	5.0102 4PMK	100.0%	
Gal d 4	1LYZ/1YQV_Y/1FDL_Y/ 1MLC_E/3HFM_Y/ 4.0101 1DQJ_C/1GXV/1GXX/ 2LYM	100.0%	
	1H6M	99.2%	
Pru p 3	3.0102 2ALG/2B5S	100.0%	
Tri a 14	14.0101 1BWO	100.0%	
Zea m 14	14.0101/14.0 14.0101/14.0 102 164/1645/1646/1643/ 102 103/1643/1643/1643/ 104/1643/1643/ 104/1643/1643/ 104/1643/ 10	100.0%	Zea m 14.0101 and Zea m 14.0102 have identical sequences
Gal d 2	2.0101 1UHG/10VA	100.0%	
	1JTI	99.5%	
	1N04/1AIV/1OVT/1RYX/ 1NNT	100.0%	
Gal d 3	3.0101 1IEJ	99.4%	
	2D3I	99.7%	
	1TFA	99.1%	
Сур с 1	1.0102 4CPV/5CPV	97.2%	
Gad m 1	1.0201 2MBX	100.0%	
Act d 11	11.0101 4IGV/4IGW/4IGX/4IGY/ 4IH0/4IH2/4IHR	100.0%	
Api g 1	1.0101 2BK0	100.0%	
Ara h 8	8.0101 4MAP/4MA6/4M9W/ 4M9B	100.0%	
Dau c 1	1.0101/ 1.0102/ 1.0104/ 1.0105	97.4%	Dau c 1.0101, 1.0102, 1.0104 and 1.0105 are identical
Fra a 1	1.0105 1.0102 2LPX	97.5%	
Gly m 4	4.0101 2K7H	100.0%	
GIY III 4	4.U1U1 ZK/II	100.0%	<u> </u>

Pru av 1	1.0101 1E09		0.0%					
	1.0101 1H2C	9	9.4%					
Vig r 6	6.0101 2FLH,	, 3COV 9	9.4%					
Ara h 5	5.0101 4ESP	g	2.3%					
Bos d 6	6.0101 3V03	/4F5S/4JK4 9	9.8%					
Ani s 5	5.0101 2MAI	R 10	0.0%					
Act d 2	2.0101 4BCT	10	0.0%					
Mal d 2	2.0101 3ZS3	10	0.0%					
Mus a 4	4.0101 1Z3Q	. 10	0.0%					
Pru av 2	2.0101 2AHN	10	0.0%					
					Injected			
Allergen	Isoallergen	PDB Entry Idea	ntity	Isoallergen	PDB Entry	Identity	< 25% Identity	Notes
Ves v 5	5.0101 1QNX	( 9	9.5%					
Arg r 1	1.0101 2X45	10	0.0%	1.0101 2X46		99.3%		
Api m 2	2.0101 1FCQ	/1FCU/1FCV/2J88 10	0.0%					
Ves v 2	2.0101/ 2.0201 2ATM	1 5	9.0%					Ves v 2.0101 and Ves v 2.0201
Api m 4	2.0201		0.0%					have identical sequences
	4.0101 2MLT							
Api m 1	1.0101 1POC		0.0%					
Aed a 2			6.4%					
Sol i 2	2.0101 2YGU		0.0%					
Sol i 3	3.0101 2VZN	10	0.0%					
	_			Other routes of expo	_	through skin)		
Allergen	Isoallergen	PDB Entry Ide		Isoallergen	PDB Entry	Identity	< 25% Identity	Notes
Asc s 13	13.0101 4Q5F		0.0%					
Mala s 1	1.0101 2P9W	<i>l</i> 9	9.7%					
Mala s 6	6.0101 2CFE	10	0.0%					
Mala s 13	13.0101 2J23	10	0.0%					

<sup>\*</sup> N-glycosylation site was silenced

& Mutant

Need of revision in the WHO/IUIS database

PDB entries to be added to the database are in those two columns