

**Supplementary Table 1. Characterization of grass pollen-allergic patients**

Patient No.	Age	Sex <sup>I</sup>	Additional Sensitizations	ImmunoCAP Timothy	HLA-DRB1 Haplotype	Basophil Stimulation <sup>II</sup>	Phl p 1 (IgE, kU <sub>A</sub> /L)	Phl p 5 (IgE, kU <sub>A</sub> /L)
Allergy 17	31	F	Dust mite, Bermuda, Alder, Cat	4	0401, 1501	+	19	22
Allergy 20	57	M	Alder	3	0401, 1301	+	1.97	2.06
Allergy 53	33	F	Bermuda	3	1501, 1601	+	<0.10	8.20
Allergy 78	33	F	Dust mite, Cat, Bermuda	3	0701, 1501	+	4.03	8.43
Allergy 86	35	F	Dust mite, Bermuda, Alder, Cat, Peanut	4	0401, 0701	+	16.2	26.2
Allergy 89	37	M	Bermuda, Alder, Peanut	4	0102, 0401	+	15.7	8.14
Allergy 95	37	M	Dust mite, Bermuda, Cat	3	0401,	+	6.57	8.38
Allergy 101	31	M	Dust mite, Bermuda, Alder, Yellow Jacket, Peanut	5	0101, 0401	+	19.3	21.9
Allergy 159	39	F	Dust mite, Alder, Birch, Bermuda	4	0701, 0701	+	6.78	37.2

<sup>I</sup>F, Female; M, Male

<sup>II</sup> Basophil stimulation assessed with pollen extracts from different species, (+) depicts positive tests for individual grass extracts.