

**Table S1.** Genes containing the pollen-Ole-e\_I domain in rice.

NO.	Gene	Expression	Annotation
1	Os01g0164000	Not mentioned	POEI39 - Pollen Ole e I allergen and extensin family protein precursor, putative, expressed.
2	Os10g0546100	Embryo	POEI31 - Pollen Ole e I allergen and extensin family protein precursor, putative, expressed.
3	Os01g0164075	Endosperm	POEI40 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
4	Os01g0164025	Not mentioned	POEI38 - Pollen Ole e I allergen and extensin family protein precursor, putative, expressed.
5	Os01g0164100	Not mentioned	POEI41 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
6	Os01g0164200	Endosperm	POEI42 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
7	Os01g0163600	Not mentioned	POEI36 - Pollen Ole e I allergen and extensin family protein precursor, putative, expressed.
8	Os01g0164300	Not mentioned	POEI43 - Pollen Ole e I allergen and extensin family protein precursor, putative, expressed.
9	Os01g0163701	Not mentioned	Unknow
10	Os09g0508200	Leaves, Inflorescence, Pistil, Seed, Embryo, Shoots	POEI18 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
11	Os04g0398700	Inflorescence, Anther, Pistil	POEI20 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
12	Os06g0556600	Inflorescence, Anther, Pistil	POEI21 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
13	Os09g0572800	Inflorescence, Anther Pistil, Leaves	POEI23 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
14	Os01g0726100	Inflorescence, Anther Seed Embryo	POEI51 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
15	Os01g0726100	Inflorescence, Anther Seed, Embryo	POEI51 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
16	Os01g0163300	Not mentioned	POEI34 - Pollen Ole e I allergen and extensin family protein precursor, putative, expressed.
17	Os01g0725900	Pistil Endosperm, Seed	POEI44 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
18	Os10g0371000	Inflorescence, Anther Seed, Embryo, leaves	POEI24 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
19	Os05g0531200	Seed, Embryo	POEI52 - Pollen Ole e I allergen and extensin family protein precursor, expressed.

20	Os07g0590500	Inflorescence, Anther	POEI22 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
21	Os05g0531400	Seed, Embryo	POEI45 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
22	Os01g0899700	Inflorescence, Anther, Pistil, Seed	<i>COG2</i>
23	Os03g0245200	Inflorescence, Shoots	POEI1 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
24	Os10g0148100	Inflorescence, Pistil, Seed, Embryo, Shoots	<i>OsPRP3</i>
25	Os10g0150700	Inflorescence, Pistil, Seed Shoots	<i>OsPRP1.3</i>
26	Os10g0150400	Inflorescence, Pistil, Seed, Shoots	<i>OsPRP1.1</i>
27	Os03g0245300	Inflorescence	POEI16 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
28	Os10g0150800	Inflorescence, Pistil, Seed, Shoots	<i>OsPRP1; OsPRP1.4</i>
29	Os10g0150600	Inflorescence, Pistil, Seed, Shoots	<i>OsPRP2; OsPRP1.2</i>
30	Os10g0206500	Inflorescence, Shoots, leaves	POEI27 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
31	Os10g0208600	Leaves, Pistil, Shoots	POEI28 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
32	Os10g0149400	Inflorescence, Anther	POEI8 - Pollen Ole e I allergen and extensin family protein precursor, putative, expressed.
33	Os10g0149800	Inflorescence, Anther	POEI9 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
34	Os10g0150300	Inflorescence, Pistil, Shoots	POEI11 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
35	Os10g0150000	Inflorescence, Anther	POEI10 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
36	Os10g0205700	Leaves, Inflorescence, Pistil, Seed, Embryo, Shoots	POEI17 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
37	Os10g0148700	Inflorescence, Anther, Pistil	POEI4 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
38	Os02g0317800	Leaves, Inflorescence, Pistil, Seed, Embryo, Endosperm, Shoots	POEI30 - Pollen Ole e I allergen and extensin family protein precursor, expressed.
39	Os10g0149000	Inflorescence, Anther, Shoots	POEI5 - Pollen Ole e I allergen and extensin family protein precursor, expressed.

40	Os10g0149200	Inflorescence, Anther, Shoots	POEI7 - Pollen Ole e I allergen and extensin family protein precursor, putative, expressed.
41	Os02g0101900	Inflorescence, Anther, Pistil, Seed, Embryo, Endosperm	POEI25 - Pollen Ole e I allergen and extensin family protein precursor, expressed.

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