

**Table S4. GO attributes enriched among the genes congruent to XopE2 (including the congruent genes)**

Rank	GO attribute	<i>gas1</i>	<i>bni1</i>	<i>smi1</i>	<i>bem2</i>	<i>bck1</i>	<i>rvs167</i>	<i>spa2</i>	<i>skt5</i>	<i>myo2</i>	<i>chs5</i>	<i>chs3</i>	<i>slt2</i>
1	cellular cell wall organization	+	+	+	+	+	+	+	+	+	+	+	+
2	external encapsulating structure organization	+	+	+	+	+	+	+	+	+	+	+	+
3	cell wall organization	+	+	+	+	+	+	+	+	+	+	+	+
4	cellular cell wall organization or biogenesis	+	+	+	+	+	+	+	+	+	+	+	+
5	cell wall organization or biogenesis	+	+	+	+	+	+	+	+	+	+	+	+
6	site of polarized growth	+	+	+	+	+	+	+	+	+	+	+	+
7	cell wall chitin metabolic process								+		+		+
8	incipient cellular bud site	+	+	+				+	+	+			+
9	mating projection tip	+	+	+	+	+	+	+		+	+	+	+
10	cell projection part	+	+	+	+	+	+	+		+	+	+	+
11	cell wall polysaccharide metabolic process								+		+		+
12	ER-nucleus signaling pathway	+		+		+		+	+		+	+	+
13	aminoglycan metabolic process								+		+		+
14	chitin metabolic process								+		+		+
15	cell wall macromolecule metabolic process								+		+		+
16	cellular bud tip	+		+				+		+			+
17	cellular bud neck	+	+	+				+	+	+			+
18	intracellular signaling pathway	+		+	+	+		+	+		+	+	+
19	signaling pathway	+		+	+	+		+	+		+	+	+
20	signaling	+		+	+	+		+	+		+	+	+
21	cellular component organization	+	+	+	+	+	+	+	+	+	+	+	+
22	sexual reproduction	+		+				+	+	+	+		+
23	actin filament-based process	+		+		+	+			+			
24	reproduction	+		+				+	+	+	+		+

A plus sign marks an association between a GO attribute and a congruent gene.