

Supplementary Table 4. Protein encoding genes associated with avirulence protein and type secretion system in *Xantomonas hortorum* pv. *carotae* JJ2001

Protein_ID	Start	End	Product	InterPro
Avirulence protein				
jjz001_1_00837	1009359	1011860	ATP-dependent RNA helicase HrpB	IPR007502;IPR010225;IPR013689;IPR014001;IPR027417
jjz001_1_01232	1484319	1486523	Avirulence protein AvrBs3	IPR005042
jjz001_1_01233	1486538	1488043	Avirulence protein AvrBs3	IPR005042
jjz001_1_01236	1489643	1493158	Avirulence protein AvrBs3	IPR005042
jjz001_1_01245	1499269	1502919	Avirulence protein AvrBs3	IPR005042
jjz001_1_00039	36973	37278	Avirulence protein B	IPR036231
jjz001_1_03466	4095933	4097003	Effector protein hopD2	IPR016130;IPR029021
Type secretion system				
jjz001_1_01988	2398218	2399435	Putative type II secretion system protein F	IPR003004;IPR018076
jjz001_1_00596	728656	730476	Type 3 secretion system secretin	IPR004845;IPR004846;IPR005644;IPR038591
jjz001_1_01987	2396315	2398042	Type II secretion system protein E	IPR003593;IPR007831;IPR013369;IPR027417;IPR037257
jjz001_1_00330	407658	409145	Type II secretion system protein E	IPR003593;IPR013369;IPR027417;IPR037257
jjz001_1_04590	5421428	5422687	Type II secretion system protein F	IPR003004;IPR018076
jjz001_1_00329	406475	407671	Type II secretion system protein F	IPR003004;IPR011850;IPR018076
jjz001_1_01989	2399559	2399990	Type II secretion system protein G	IPR010054;IPR012902;IPR013545
jjz001_1_00328	405982	406446	Type II secretion system protein G	IPR010054;IPR012902;IPR013545
jjz001_1_00326	405108	405512	Type II secretion system protein I	IPR010052;IPR012902
jjz001_1_00325	404488	405111	Type II secretion system protein J	IPR012902
jjz001_1_00324	403499	404491	Type II secretion system protein K	IPR038072
jjz001_1_03957	4689003	4689314	Type IV secretion system protein PtlB	IPR007792
jjz001_1_03962	4692881	4693648	Type IV secretion system protein PtlF	IPR010258;IPR033645;IPR038161
jjz001_1_03960	4690660	4691709	Type IV secretion system protein VirB11	IPR014155;IPR027417
jjz001_1_03951	4679834	4681291	Type IV secretion system protein virB4	IPR027417
jjz001_1_03956	4686449	4688902	Type IV secretion system protein virB4	IPR004346;IPR018145;IPR027417
jjz001_1_01550	1891904	1892587	Virulence transcriptional regulatory protein PhoP	IPR001867;IPR011006;IPR036388