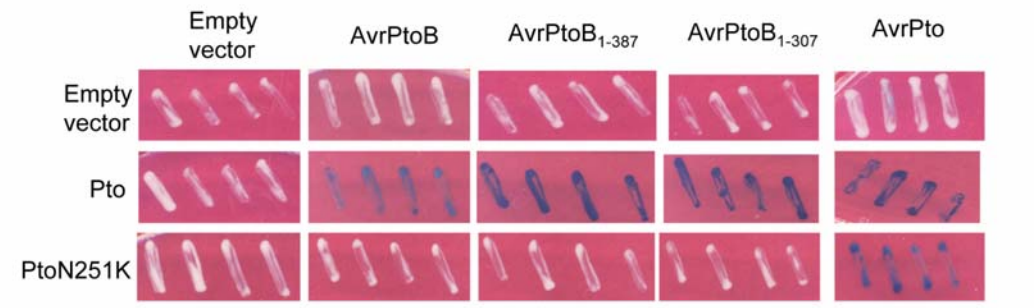
Supplemental Data. Dong et al. 2009. Crystal structure of the complex between *Pseudomonas* effector AvrPtoB and the tomato Pto kinase reveals both a shared and a unique interface compared with AvrPto-Pto.



Supplemental Figure 1. Pto N251K interacts with AvrPto but not AvrPtoB as determined by a yeast two-hybrid assay

Various constructs of AvrPtoB as indicated and AvrPto were expressed from the prey vector pJG4-5, whereas Pto (wild type) and the mutant N251K were expressed from the bait pEG202 vector. Positive interactions are indicated by blue patches.

Supplemental Table 1: Primers used for expression of *AvrPtoB* and *Pto*.

The underlined sequences are the restriction enzyme (on the last column) cutting sites.

$AvrPtoB_{121-205}$ –WT	5’-GAAATTGGATCCCCGCGTAGAGGGGCGGTT-3’	*BamH*I
	3’-AAATTCTCGAGTCATGACGCCGCCTGTTGGTG-5’	*Xho*I
$AvrPtoB_{121-205}$-V159D	5’-GACGCAGATGCTTTTTC-3’	
	3’-AGAAAAAGCATCTGCGTCGC-5’	
$AvrPtoB_{121-205}$-A158D	5’-AATGGCGACGTCGCTTTT-3’	
	3’-AAAAGCGACGTCGTCGCCATT-5’	
$AvrPtoB_{121-205}$-A160D	5’-GACGCAGTCGACTTTTCTCG-3’	
	3’-TCGAGAAAAGTCGACTGCG-5’	
$AvrPtoB_{121-205}$-D157A	5’-ATGAATGGCGCGGCAGTCGC-3’	
	3’-AGCGACTGCCGCGCCATTC-5’	
$AvrPtoB_{121-205}$-P174A	5’-CATTTCGCCAACATGCC-3’	
	3’-: GGGCATGTTGGCGAAATGC-5’	
$AvrPtoB_{121-205}$-M176	5’-CCGAACGACCCCATGC-3’	
	3’-CATGGGGTCGTTCGGG-5’	
$AvrPtoB_{121-205}$-P177A	5’-AACATGGCGATGCATCG-3’	
	3’-ATGCATCGCCATGTTGG-5’	
$AvrPtoB_{121-205}$-I181D	5’-ATGCATGGAGACAGCCG-3’	
	3’-TCGGCTGTCTCCATGC-5’	
Pto-WT	5’-GAAATTCATATGATGGGAAGCAAGTATTCT-3’	*Nde*I
	3’-GAAATTCTCGAGAATAACAGACTCTTGGAG-5’	*Xho*I
Pto -R163A	5’-ATTATACATGCTGATGTCAAG-3’	
	3’-CTTGACATCAGCATGTATAAT-5’	
Pto -L205A	5’-AAAGGAACTGCCGGCTACATT-3’	
	3’-AATGTAGCCGGCAGTTCCTTT-5’	
Pto -K215D	5’-TATTTTATAGACGGACGACTC-3’	
	3’-GAGTCGTCCGTCTATAAAATA-5’	
Pto -T199A	5’-CATCTTAGCGCAGTAGTGAAA-3’	
	3’-TTTCACTACTGCGCTAAGATG-5’	
Pto -V242D	5’-TCTGCCATAGACCAATCTC-3’	
	3’-AGATTGGTCTATGGCAG-5’	

Supplemental Table 2: Primers used for yeast two hybrid assays

Pto-H49E/V51D	5'-AAGTTTTTAATTGGAGAAGGTGACTTTGGGAAGGTTTAC-3'
	5'-GTAAACCTTCCCAAAGTCACCTTCTCCAATTAAAAACTT-3'
Pto-L205A/F213A	5'-AAAGGAACTGCCGGCTACATTGACCCTGAATATGCTATAAAGGGA-3'
	5'-TCCCTTTATAGCATATTCAGGGTCAATGTAGCCGGCAGTTCCTTT-3'
Pto-K215D	5'-CCTGAATATTTTATAGATGGACGACTCACTGAA-3'
	5'-TTCAGTGAGTCGTCCATCTATAAAATATTCAGG-3'
Pto-V242D	5'-GCTAGGTCTGCCATAGATCAATCTCTTCCAAGG-3'
	5'-CCTTGGAAGAGATTGATCTATGGCAGACCTAGC-3'
Pto-V242W	5'-GCTAGGTCTGCCATATGGCAATCTCTTCCAAGG-3'
	5'-CCTTGGAAGAGATTGCCATATGGCAGACCTAGC-3'
Pto-I241D	5'-TGTGCTAGGTCTGCCGATGTTCAATCTCTTCCA-3'
	5'-TGGAAGAGATTGAACATCGGCAGACCTAGCACA-3'
Pto-V229D	5'-GTTTATTCTTTCGGTGATGTTTTATTCGAAGTT-3'
	5'-AACTTCGAATAAAACATCACCGAAAGAATAAAC-3'
Pto-W255D	5'-GTTAATTTAGCTGAAGATGCAGTGGAGTCGCAT-3'
	5'-ATGCGACTCCACTGCATCTTCAGCTAAATTAAC-3'
Pto-R238A	5'-GAAGTTCTTTGTGCTGCGTCTGCCATAGTTCAA-3'
	5'-TTGAACTATGGCAGACGCAGCACAAAGAACTTC-3'
Pto-L205A	5'-GTGAAAGGAACTGCCGGCTACATTGACCCTGAA-3'
	5'-TTCAGGGTCAATGTAGCCGGCAGTTCCTTTCAC-3'
Pto-F213A	5'-ATTGACCCTGAATATGCTATAAAGGGACGACTC-3'
	5'-GAGTCGTCCCTTTATAGCATATTCAGGGTCAAT-3'
Pto-N251K	5'-CCAAGGGAGATGGTTAAATTAGCTGAAGATGCA-3'
	5'-TGCATCTTCAGCTAATTTAACCATCTCCCTTGG -3'
$AvrPtoB_{1-307}$-D157A	5'- AATGCAATGAATGGCGCCGCAGTCGCTTTTTCT-3'
	5'-AGAAAAAGCGACTGCGGCGCCATTCATTGCATT-3'
$AvrPtoB_{1-307}$-A158D	5'-GCAATGAATGGCGACGACGTCGCTTTTTCTCGA-3'
	5'-TCGAGAAAAAGCGACGTCGTCGCCATTCATTGC-3'
$AvrPtoB_{1-307}$-V159D	5'- ATGAATGGCGACGCAGACGCTTTTTCTCGAGTA-3'
	5'-TACTCGAGAAAAAGCGTCTGCGTCGCCATTCAT-3'
$AvrPtoB_{1-307}$-A160D	5'-AATGGCGACGCAGTCGACTTTTCTCGAGTAGAA-3'
	5'-TTCTACTCGAGAAAAGTCGACTGCGTCGCCATT-3'
$AvrPtoB_{1-307}$-P174D	5'-TTTCGCCAGCATTTCGACAACATGCCCATGCAT-3'
	5'-ATGCATGGGCATGTTGTCGAAATGCTGGCGAAA-3'
$AvrPtoB_{1-307}$-M176D	5'-CAGCATTTCCCGAACGACCCCATGCATGGAATC-3'
	5'-GATTCCATGCATGGGGTCGTTCGGGAAATGCTG-3'
$AvrPtoB_{1-307}$-P177A	5'-CATTTCCCGAACATGGCCATGCATGGAATCAGC-3'
	5'-GCTGATTCCATGCATGGCCATGTTCGGGAAATG-3'
$AvrPtoB_{1-307}$-I181D	5'-ATGCCCATGCATGGAGACAGCCGAGATTCGGAA-3'
	5'-TTCCGAATCTCGGCTGTCTCCATGCATGGGCAT-3'