

**Table S5b.** Arabidopsis (Basu et al.)<sup>31</sup> mucilage proteins blasted against the 2,848 maize secretory proteins

<b>Arabidopsis query sequence</b>	<b>Maize Hit ID</b>
O81862_ARATH Putative chitinase	B4G1L5_MAIZE
	B6SZG2_MAIZE
	B4FBN8_MAIZE
	B4FY17_MAIZE
	B6T6H4_MAIZE
	B4FZI2_MAIZE
	B4FCM3_MAIZE
	B4FKV2_MAIZE
	B4FAK9_MAIZE
PR5_ARATH Pathogenesis-related protein 5	B6TL22_MAIZE
	B6SKP5_MAIZE
	B6TGN8_MAIZE
	B4FV91_MAIZE
	B4FV91_MAIZE
	B6S JL2_MAIZE
	B4FGH8_MAIZE
	B4FLE3_MAIZE
	B4FW90_MAIZE
B4FWJ8_MAIZE	
Q8GWI7_ARATH Hypothetical protein	B6TKR7_MAIZE
	A6YSM3_MAIZE
	A6YSM3_MAIZE
	Q9LL87_MAIZE
	Q9LL87_MAIZE
	B4FV82_MAIZE
	B4FV82_MAIZE
	GLTB_MAIZE
	Q43274_MAIZE
	B6TXF8_MAIZE
B4FQ20_MAIZE	

<b>Arabidopsis query sequence</b>	<b>Maize Hit ID</b>
P33154.1 Pathogenesis-related protein 1	B4FQY1_MAIZE
	B4FVP5_MAIZE
	B6T7M6_MAIZE
	Q94IQ8_MAIZE
	O81638_MAIZE
	B4F848_MAIZE
	B6TRL2_MAIZE
O23248_ARATH Class IV chitinase	B6TT00_MAIZE
	CHIB_MAIZE
	B6TELO_MAIZE
	B4FTS6_MAIZE
	B6TR38_MAIZE
	B6SN61_MAIZE
	B6T7H0_MAIZE
	Q8W2K4_MAIZE
	Q9FQD0_MAIZE
	B6TTW1_MAIZE
SUBL_ARATH Subtilisin-like protease	B6U1P8_MAIZE
	B4FAI3_MAIZE
	B4FZU2_MAIZE
	B6SWE3_MAIZE
Q9ZV19_ARATH Protease1 (Pfpl)-like protein	B4F871_MAIZE
	B6TVM7_MAIZE
	B6TVM7_MAIZE
	B6TU74_MAIZE
	B6TU74_MAIZE
	B4FIG6_MAIZE
	B6TVP3_MAIZE
	B4FTJ7_MAIZE
	B6TDM6_MAIZE
	B6SWD3_MAIZE
NP_567291.1 Polyubiquitin 10	B6SIL9_MAIZE
	B6SIL9_MAIZE

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<b>Arabidopsis query sequence</b>	<b>Maize Hit ID</b>
NP_567291.1 Polyubiquitin 10 (cont.)	B6SIL9_MAIZE
	B6SIL9_MAIZE
	B6SIL9_MAIZE
	Q6LCT7_MAIZE
	B6U0P5_MAIZE
	B4FD80_MAIZE
	B6T790_MAIZE
	B6TB61_MAIZE
	B4FZM9_MAIZE
	B4FZM9_MAIZE
	B4FZM9_MAIZE
	B4FZM9_MAIZE
	B6UDS9_MAIZE
	B6UDS9_MAIZE
	B6UDS9_MAIZE

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<b>Arabidopsis query sequence</b>	<b>Maize Hit ID</b>
NP_567291.1 Polyubiquitin 10 (cont.)	B6UDS9_MAIZE
	B6UDS9_MAIZE
	B6SII3_MAIZE
	B6SII3_MAIZE
	B6SII3_MAIZE
	B6SII3_MAIZE
	B4FV61_MAIZE
	B4FV61_MAIZE
AAM63339.1 Beta-1,3-glucanase 2	P93519_MAIZE
	B6T391_MAIZE
	B4FNA7_MAIZE
	B4F8X5_MAIZE
	B6TW83_MAIZE
	B6TU78_MAIZE
	B4FB19_MAIZE
	B4FBY2_MAIZE
	B6SWD3_MAIZE
	B6STZ9_MAIZE
	B6TIF7_MAIZE
	B6THD2_MAIZE
	B6UBU1_MAIZE
	B6TJE9_MAIZE
	B4FBF6_MAIZE
	B4G0K4_MAIZE
B4FTG6_MAIZE	
DEF15_ARATH Defensin-like protein 15	B6U4S2_MAIZE
	B6U361_MAIZE
Q9ZU19_ARATH F5F19.12 protein	A6YSM3_MAIZE
	A6YSM3_MAIZE
	Q9LL87_MAIZE
	Q9LL87_MAIZE
	B4FV82_MAIZE
	B4FV82_MAIZE

<b>Arabidopsis query sequence</b>	<b>Maize Hit ID</b>
Q9ZU19_ARATH F5F19.12 protein (cont.)	B6TKR7_MAIZE
	B6T4W6_MAIZE
	B6U0P4_MAIZE
	B4FNF8_MAIZE
	B4F8M9_MAIZE
AAA32765.1 Calmodulin-3	B4FBY6_MAIZE
	CALM_MAIZE
	B6T4U8_MAIZE
	B4FNQ8_MAIZE
	B4FY36_MAIZE
	B4FY36_MAIZE
	B4FY36_MAIZE
	B6UF43_MAIZE
	B6UF43_MAIZE
	CDPK2_MAIZE
	CDPK2_MAIZE
	CDPK2_MAIZE
	Q41790_MAIZE
	Q41790_MAIZE
	Q41790_MAIZE
	Q7Y037_MAIZE
	Q7Y037_MAIZE
	B6T814_MAIZE
	B6SNX9_MAIZE
	B6SNX9_MAIZE
	B6U1M5_MAIZE
	B6SVE6_MAIZE
	B6SVE6_MAIZE
	B4FPT9_MAIZE
	B6TIA8_MAIZE
	Q5GAR2_MAIZE
	B6U639_MAIZE
B6U4M0_MAIZE	

<b>Arabidopsis query sequence</b>	<b>Maize Hit ID</b>
AAA32765.1 Calmodulin-3 (cont.)	B6U4D3_MAIZE
	B6SWA2_MAIZE
	B6U1E4_MAIZE
	B4FWJ8_MAIZE
	B6SZ69_MAIZE
	B4FW90_MAIZE
	B6U759_MAIZE
	B6SVL2_MAIZE
	B4FRL9_MAIZE
	TBG2_MAIZE
AAN60254.1 Unknown function	CHIB_MAIZE
	B4FTS6_MAIZE
	B6TELO_MAIZE
	B6TT00_MAIZE
	B6TR38_MAIZE
	B4FAW4_MAIZE
	Q6R9G1_MAIZE
	B6TB11_MAIZE
	B4FY12_MAIZE
	B4FZK6_MAIZE
	B4G1F6_MAIZE
NP_175617.2 Jacalin lectin family protein	A6YSM3_MAIZE
	B6TKR7_MAIZE
	Q9LL87_MAIZE
	Q9LL87_MAIZE
	B4FV82_MAIZE
	B4FV82_MAIZE
	B6TV55_MAIZE
	O23888_MAIZE
NP_564067.1 Germin-Like Protein 4	B4FAV5_MAIZE
	B4FRS8_MAIZE
	B4FY73_MAIZE
	B4FUT3_MAIZE

<b>Arabidopsis query sequence</b>	<b>Maize Hit ID</b>
NP_564067.1 Germin-Like Protein 4 (cont.)	B6UEL1_MAIZE
	B6UGC5_MAIZE
	B6TWC3_MAIZE
	B6TTY1_MAIZE
	B6U6C5_MAIZE
	B6TF80_MAIZE
	B4FVA0_MAIZE
	B6TBT2_MAIZE
	B6TFX9_MAIZE
	B4FAR3_MAIZE
	B6T9R4_MAIZE
	B6THG1_MAIZE
	B6U1W0_MAIZE
	B6T4R0_MAIZE
B6TRI3_MAIZE	
XTH6_ARATH Xyloglucan endotransglucosylase/hydrolase protein 6	B4G1Z2_MAIZE
	B6TNS1_MAIZE
	B6TF86_MAIZE
	B6SKN3_MAIZE
Q9FLG1_ARATH Beta-xylosidase	B4F8R5_MAIZE
	B6UEM2_MAIZE
	B6UF13_MAIZE
	B4F8M8_MAIZE
	Q9XE93_MAIZE
	B4FQQ1_MAIZE
	B4FZL1_MAIZE
B6T9R4_MAIZE	
E13L2_ARATH Glucan endo-1,3- $\beta$ -glucosidase-like protein 2	B6UBU1_MAIZE
	B6THD2_MAIZE
	B4F8X5_MAIZE
	B4FBY2_MAIZE
	B6TIF7_MAIZE
	B6TW83_MAIZE

<b>Arabidopsis query sequence</b>	<b>Maize Hit ID</b>
E13L2_ARATH Glucan endo-1,3- $\beta$ -glucosidase-like protein 2 (cont.)	B4FB19_MAIZE B6SWD3_MAIZE B6STZ9_MAIZE
Q9LU05_ARATH Unknown function	B6TK17_MAIZE
O81777_ARATH Ribosomal protein S6	B4FP24_MAIZE B4FJE0_MAIZE B4FFR9_MAIZE
CAA61411.1 Osmotin	B6TL22_MAIZE B4FV91_MAIZE B6SKP5_MAIZE B6TGN8_MAIZE B6S JL2_MAIZE B4G0T5_MAIZE B6T579_MAIZE B6TYM4_MAIZE B6TQC4_MAIZE B6TQ36_MAIZE
H84681 Copper/zinc superoxide dismutase	B1PEY4_MAIZE B6SK54_MAIZE B6T056_MAIZE B6TLT7_MAIZE B6T9P7_MAIZE B6UHF1_MAIZE B4F911_MAIZE B6SGJ5_MAIZE B6SKP5_MAIZE B6T2Y1_MAIZE B6TCC4_MAIZE
I39698 Blue copper-binding protein	B6UB13_MAIZE B6UHQ8_MAIZE B6TCC4_MAIZE B6SQI9_MAIZE B6U7P6_MAIZE

<b>Arabidopsis query sequence</b>	<b>Maize Hit ID</b>
I39698 Blue copper-binding protein (cont.)	B4FYQ7_MAIZE B4FTK0_MAIZE B4FZZ2_MAIZE B6TCE9_MAIZE B6TBX8_MAIZE B4FA27_MAIZE B6TQ97_MAIZE B6SRE7_MAIZE B6TL20_MAIZE
NP_175427.1 Pathogenesis-related protein	B4FVP5_MAIZE B4FQY1_MAIZE B6TMG4_MAIZE B6TKC5_MAIZE
NP_188574.2 Late embryogenesis abundant protein-related	Q9ZQT2_MAIZE Q9ZQT2_MAIZE B6SNT9_MAIZE B6UFQ3_MAIZE B4FS88_MAIZE
NP_680327.1 Mutator-related transposase	B6UBW7_MAIZE B4FWH2_MAIZE
BCB2_ARATH Uclacyanin-2	B6UB13_MAIZE B6UHQ8_MAIZE B6TCC4_MAIZE B6SQI9_MAIZE B6U7P6_MAIZE B4FYQ7_MAIZE B4FTK0_MAIZE
CYB51_ARATH Cytochrome b5 isoform 1	B6SNI9_MAIZE B6UG51_MAIZE B6T7Z2_MAIZE B4FKH7_MAIZE B6TTI9_MAIZE B6TRR5_MAIZE

<b>Arabidopsis query sequence</b>	<b>Maize Hit ID</b>
CYB51_ARATH Cytochrome b5 isoform 1 (cont.)	B6SIW6_MAIZE
	B4FUK9_MAIZE
	B4FVC1_MAIZE
	B6UCV5_MAIZE
	B4F8X5_MAIZE
	B6U1P8_MAIZE
Q84WQ6_ARATH Hypothetical protein	B4FZ35_MAIZE
	B6TK17_MAIZE
	B6TNI6_MAIZE
	B4FUC4_MAIZE
	B4FAQ9_MAIZE
	B4FT69_MAIZE
	B4FU04_MAIZE
	B6SP44_MAIZE
B4FNE5_MAIZE	
Q8LEU7_ARATH Hypothetical protein	B4FPA4_MAIZE
	B6TSH4_MAIZE
	B6T982_MAIZE
Q9FKH4_ARATH Glycosyl hydrolase family protein 17	B4F8X5_MAIZE
	B6UBU1_MAIZE
	B4FBY2_MAIZE
	B6TIF7_MAIZE
	B6THD2_MAIZE
	B6SWD3_MAIZE
	B4FB19_MAIZE
	B6TW83_MAIZE
	B6STZ9_MAIZE
	B4FY87_MAIZE
	B4FD03_MAIZE
	B6U990_MAIZE
	B6TB11_MAIZE
	B6TNC0_MAIZE
B6U0P5_MAIZE	

<b>Arabidopsis query sequence</b>	<b>Maize Hit ID</b>
Q9SKL6_ARATH Expressed protein	B6TDW7_MAIZE B6TI78_MAIZE B6U100_MAIZE
Q9FF98_ARATH Unknown function	B4FAR3_MAIZE B6TVG1_MAIZE
NP_175802.1 Myrosinase-associated protein	B6TZ91_MAIZE B6TLP8_MAIZE B4FWY4_MAIZE B4FM12_MAIZE B4G1Z0_MAIZE B4FVN1_MAIZE B6T624_MAIZE Q9FUY5_MAIZE B4G1P1_MAIZE B6TBF3_MAIZE
BAA19595.1 Ribulosebiphosphate carboxylase	B4FSA7_MAIZE PCNA_MAIZE B4FSZ8_MAIZE Q9SAQ3_MAIZE B6TIJ2_MAIZE Q7XYR3_MAIZE Q41743_MAIZE B6T8U9_MAIZE
Q8L9M6_ARATH Hypothetical protein	B6U3H8_MAIZE
NP_671770.1 Glycosyl hydrolase family protein 17	B4F8X5_MAIZE B6THD2_MAIZE B6UBU1_MAIZE B4FBY2_MAIZE B6TIF7_MAIZE B6TW83_MAIZE B4FB19_MAIZE B6STZ9_MAIZE B4FYG9_MAIZE

<b>Arabidopsis query sequence</b>	<b>Maize Hit ID</b>
NP_671770.1 Glycosyl hydrolase family protein 17 (cont.)	B6TZR1_MAIZE
	B6SWD3_MAIZE
	B4FIG6_MAIZE
NLTP6_ARATH Non-specific lipid-transfer protein 6	B6U3H8_MAIZE
	B6T7H0_MAIZE
	B4FPA4_MAIZE
	B4FTV9_MAIZE
	B4FA05_MAIZE
	B4FEX7_MAIZE
	Q309F9_MAIZE
O04047_ARATH Putative transcription factor	B4FDT6_MAIZE
	B6TBL7_MAIZE
O22841_ARATH Putative endochitinase	B6TELO_MAIZE
	B4FTS6_MAIZE
	CHIB_MAIZE
	B6TT00_MAIZE
	B6TR38_MAIZE
	B6UF54_MAIZE
	B4FUX3_MAIZE
	B6SRU1_MAIZE
LAML_ARATH Lamin-like protein	B6UB13_MAIZE
	B4FYQ7_MAIZE
	B6U7P6_MAIZE
	B6UHQ8_MAIZE
	B6TCC4_MAIZE
	B6SQI9_MAIZE
	B6TG98_MAIZE
	B4FTK0_MAIZE
	B4FV82_MAIZE
	Q9LL87_MAIZE
B6UCH8_MAIZE	
Q8GYS8_ARATH Hypothetical protein	B4FPA4_MAIZE
	B6U3H8_MAIZE

<b>Arabidopsis query sequence</b>	<b>Maize Hit ID</b>
Q8GYS8_ARATH Hypothetical protein (cont.)	B6TID7_MAIZE
	B6SKL0_MAIZE
	B4FUI0_MAIZE
	B6U4M6_MAIZE
	B4FVL1_MAIZE
XTH7_ARATH Xyloglucan endotransglucosylase/hydrolase protein 7	B4G1Z2_MAIZE
	B6TNS1_MAIZE
	B6SKN3_MAIZE
Q8VXZ7_ARATH Alpha-galactosidase	B4FA27_MAIZE
	B4FFJ4_MAIZE
	B6SQF4_MAIZE
	B4F9X0_MAIZE
	B6TVG1_MAIZE
	AMYB_MAIZE
Q9FMH8_ARATH Cysteine protease	B6TGM9_MAIZE
	Q9SLY9_MAIZE
	B4FS90_MAIZE
	O22499_MAIZE
	B4FYA3_MAIZE
	B4FU56_MAIZE
	B6TYT3_MAIZE
	B6SZV3_MAIZE
	B4F9B5_MAIZE
	B4FX40_MAIZE
	B6TLR9_MAIZE
	B6TXS9_MAIZE
	B6TJ57_MAIZE
B6T556_MAIZE	
Q9M8Y9_ARATH Putative trypsin inhibitor	B6SSX2_MAIZE
	B4FUW1_MAIZE
	Q3S3T0_MAIZE
Q9ZUF6_ARATH Subtilisin-like serine protease	B4FAI3_MAIZE
	B6U1P8_MAIZE

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<b>Arabidopsis query sequence</b>	<b>Maize Hit ID</b>
Q9ZUF6_ARATH Subtilisin-like serine protease (cont.)	B4FZU2_MAIZE
	B4F9L9_MAIZE
	B6T4I5_MAIZE
	B6TM12_MAIZE
	B6TF44_MAIZE
	B4G0W9_MAIZE

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