

MRA-1057	28	PB-121	0702090202G01	351bp 5' of PFB0175c	1073bp 3' of PFB0177c	62.3	pLbaclI-HDH-GFP	TTAAAAATCTTTACCCCTGAAAAATACAAATACATATATATAATTAATTTAAAAATATATATGATCATATCATATAAATTTCTC TAAAAATGATTTTCTTAAATATATATATATATAATATAATTTTTTTTTTTCTTATAAAATAGCAAAGAACAGTAGAAATAAATAATTA GTAATAAAAAAAAAAATAAATAAATAAATAAATAAATAAATTTCTATATATAAATCAATAAATATATAAATATAAATATAAATATTTTA TATTAAGAAATTTCTACATACATATATAATATATATATATATATAAATATAAATATAAATATAAATATAAATATAAATATAAATATA ATATTAATATATAAT TAACCAACAACCAAAATGCAAAAGGATAGCTTTTAAATACATTTTTTA TTAAAAATCATAAAGGCATTTCTATCTCACAAATTCGTGTGATATCCCTTTTGAATGATACATCTTCTTTTTTTGTTTCATAAACATTTA TTTTTTGTAATGAAAAAATATCGTTACCCCTCAGAATGTTATTAATATTTTCACTTTGTTGTAAGTAAACAAAATCCGCTTTTACGACAT TTCCATGTTTTCCAATTTGCCCTTTATTTTTATCTGGCCCTTTTGGATTCTCATTGCTGATCCTGCTGCTTCCAGGTGTA TAATCACTATTTGTTCCCTGTCGTATTAATCTTACACATTCATCAATGTCATCATTTCACAAATTTGATTTTGAACCTTTTCCCTCA ATCGCATATGAATTTACACATTTCTTTATGAAACCCGGTCTCTTCATCCTCCTACTTCTTCAACTTCTTCACTTCTTCACTTCTTCACTC TTCAATTTCTTCAATTTCTTCAATTTCTTGGTATTTCTTCACTTCTTGGTATTTCT																																																																																																
MRA-1058	29	PB-67	0703120201D09	PFL0390c		63.4	pLbaclI-HDGH	TTAAAAAAGGAAATCAACATTTACAGTTTATTATAGGTTCACTTAAATATAAATATAAATATAAATATAAATATAAATATAAATATAA ATTAATATTTTATAATTTTATAAAGAAATTTTTTATGACTTATATGCAATTTTCATACATACGCGCAATATCTTATTACTACCAATTT CTTTTATACATTTATTTTTCTTTCTTTCTATATTTATTTTACTTATTTATGACTCCTAAGGAAATACAAAATACTAATCA AAAAATATAAATAAATAAATAAATGGTAAAGGTAACCAAAATATAAATAAATATAAATAAATAAATAAATAAATAAATAAATAAATAA MRA-1060	31	PB-34	0703190101A06	1737bp 5' of PF13_0076	6285bp 3' of PF13_0011	65.9	pLbaclI-HBH	TTAAAGTGTATTTGTTCTATATTTATG AAAAAATAA TT GAAATTTATGATATATTTCAAATTTCTTT MRA-1061	32	PB-62	060920C0801E09	1010bp 3' of PFF1590w	923bp 3' of PFF1595c	67.2	pLbaclI-HDH	TTAAAGTGTATTTGTTCTATATTTATG AAAAAATAA TT GAAATTTATGATATATTTCAAATTTCTTT MRA-1062	33	PB-114	0612150201D11	788bp 5' of MAL13P1.346	2441bp 5' of MAL13P1.347	67.2	pLbaclI-HDH	TTAAAGGATTACAAGGGTATTTAATAAATACATTTAGACATAGTATATTAATATATATATATATATATATATATATATATATATATAT TAAGATATGATGAAAAATATTTCTTTGTAATAATCCAAAATTCCTATACATATATATATATATATATATATATATATATATATATAT CTAAAAAATAATCTTTCATGTTTGAAGTGAAGAGATAAGGAAAGAAAAATACATAGTAAATGAAATTTGATTTCTTTAT ATAATAATGAAAGCTGATGATACACACAGCATACGAATTTTATAATTGAAATGGCAATGATATAATATATATATATATATATATAT MRA-1063	34	PB-46	0701300101C06	3707bp 5' of PFI1830c		67.2	pLbaclI-HDH-eGFP	TTAAGACCTACGTTACTGTAGTTAGGCTCAAGTTAGTGATATTAGGACCTATATAGTTACCTTAAGATCTAGTTAGTAATGATG GACCTACATTTACTTAAAGTCAAGTTATGGTATTAGGACCTATACCAGTACCTTAGGACCTAGTTAGTATGATTTTCAAGACCC TATATTACTGAATGTAAGACCTATATTTGATGATACGAGACCTATATAGTACTAGTACCTATATTAGTTACCTTAAGACCTAAG TTAGTGATACGAGGACTTATTTAGTTACAATAAGACCTATGTTAGTAAATAGGACCTATATTAGTTACCTTAAGACCTAAGTATA MRA-1064	35	PB-110	0702090101C09	757bp 5' of PF13_0194	634bp 3' of MAL13P1.174	67.2	pLbaclI-HDH-GFP	TTAAATAAATATTTTTAAATAAATCTCCACTCTAATAATATTGAGGATTTACAATAAATAAATCGTCATAATAAATTTTTAAT AT MRA-1065	36	PB-126	0703291701E11	1736bp 3' of MAL13P1.154	301bp 5' of MAL13P1.155	67.2	pLbaclI-HDH-eGFP	TTAAAAATGAAATGGAATTTTTTTAAATATTAATATTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG TTATATTTAGTAAAAAGGTACCATTCTTATTTAATTAAGTATATTTTATTTTAAATGTTTATTTATACCTTTATAGAATAAAAA TATCTTTATTTAAGTGAATAAATCTTAAAGAACAAATTTTTAATAAATCACTTTTAAATTTAAATATAAATTTATGATA MRA-1066	37	PB-51	0702142101D09	750bp 3' of MAL7_ITS2b	3037bp 3' of PF07_0107	69.8	pLbaclI-HDH-eGFP	TTTTTGTATTTTTATTGTTTTTATATTTTTTATTATGAT TTAAATTTTTTTTTTAATACATTTGGATATATACATGCTGAAAAGGTATACTTTACAATATATAATATATAATATATAATATATAT ATATATATATAGTATAGTATAATATATATATAATATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA MRA-1067	38	PB-122	CB C10-01E02	304bp 3' of PFL0775w	722bp 5' of PFL0780w	70.5	pXLBACII-DHFR	AGTTTCTCAAAAAAGAAAAAATAAATTTATGAAAGAAATGAAACCTTTTAACTTTTTTTTCTTTTTTTTCTTTTTTTTCTTTTTT TAATTTGATTTAATCTTGACCTTTTTAACTATATTTTTCCAAATACATATATATAAACAACAAATTAAGCTTTAATTTAAATTT MRA-1068	39	PB-42	0701310101C02	462bp 5' of PF08_0070	174bp 5' of MAL8P1.86	71.1	pLbaclI-HDGH	TTAATAAATGGAATGAGTTTAAAGCAATTTAGATATTTAAATTTTCCTTTTTAAATATATGTTGAGAAAAAGGCTTAA TAAATAATTTTTTTAGTATATATATATATATATTTAAATTTTTTATGGAACATTTATATAAATAAATAAATAAATAAATAAATAA GAGAAAAATAAAACCTTAAACACCAAGTGAATAGTAAATAAATAAATATATATACATACATATTTCCATTTTATTTTATTTA MRA-1069	40	PB-98	0607110201B04	835bp 3' of PF08_0086	1789bp 5' of PF08_0087	71.4	pLbaclI-HDGH	TTAAAAATATTTTTTGTAGCCTAACCATATAATGAATATATATTTTTTAAAGTGTGATAGGTTTCCCTTTATTTCTTATCT GTATATCAAAAAAGTTAGTTTAAAAAATAGCACATCCTTTTTTTTTTATTTTACATATAAAGTTTTTAAATTTTTTAAATTTATG AGTAAATAAATCCTTATATAAATCAAGTGAATGAAAGAAAAAAGAAAAAAGAAAAAATTTCTTTTTTAAATTTTTTTTTTTGTAAG MRA-1070	41	PB-87	0703190101A03	1075bp 5' of PF13_0272	339bp 3' of MAL13P1.267	72.2	pLbaclI-HBH	TTAAGAAAAATTTGGGTTTAAATTTATATATAAT AGTATTTTTTATTTTTTATTTAGTTATTTAAATTTTTTTTTTTTTTAAAAAAGAAATGTAATATAAAGTTTAAATTTTAAATTT ATCAATTTGTTTTTACCTAATAAATGGAATAATAAAGTAGTATAAATAATATATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NN TTAGACATATATATATATATTTTTTTTTTTTTTTTTTATTAATATACATTTGCTAGGCATAGTTACAATATTAAGATGCTCAAT MRA-1070	41	PB-87	0703190101A03	1075bp 5' of PF13_0272	339bp 3' of MAL13P1.267	72.2	pLbaclI-HBH	TTTATCACAAGATCAATTTGTTTTTTTTTATGAGGAAACTGAGGAGTAACTTCTA

MRA-1099	70	PB-38	0612150102F02	1718bp 3' of PFl0_0348	3099bp 5' of PFl0_0350	85.3	pLbaclI-HDH	TTAAAAAATAAATAAAAAAGAAATTTATGTGAATGAAATGAGAAAAGGGTGTAAAAAGATATGTTGAACAAGAGAGGAGATAAA AATAAAGCTTCAAGAAATTTGCATAAAGAAATTTACGCATATGATGAGGAGAGGACGCGCATTCGTCACGAACGGTTACAAATTCGA ACCTCTCCTTAAGGAGAGGACGCGTTCCTCGGACAAACGGTTACGATTTCGATTCGACGAAACGGTTACAAATTCGAGACGGGA TACAATCCCTCCTTTGGTTAACAGATGCTTCATACCCATATTGTTTTCATACCTTTCTTTTATAACGTTTTTAATAAACCG GTGGGGTGTCCCGTAAACTGACTACGCCCTTAGAACATTT
MRA-1100	71	PB-102	0702090101D06	1336bp 5' of MAL13P1.84	1633bp 5' of PFl3_0089	85.3	pLbaclI-HDH-GFP	TTAATAATTTTAAATATTTACAGAAATAAAAAATTTAAATCAATATATAAAAAATATTTCAAAAACAGCAATGCTTTTTTTTTTT TTTTTTTTTTTTTTTATTTATTTTATAAATGGATAAAAAAGCAAAATTTGTTATTAATGAATATACAAATAAAAAATAAAAAATA TTTTATAATTTTGAATTTAATGAATAAATAAATAAATTTTATCAGCTAACAAATGAAAAAGAAATAAATAATATAATAAAAA AATAATATTTTTTTTTTTTTCATAAAAAATAAAGTTTCCATTTATATATATAAAGAGTTTCAATTTTTACCTTTTTTTTTTTCA TTAAATAATTAATAAATTTCAATTTTATCCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT TTTTTTTTTTTTTTTAAACAATTTTTTCATAGTATATATACATACATA
MRA-1101	72	PB-55	A AI-H06	928bp 5' of MAL7P1.149	462bp 3' of MAL7P1.150	86.9	pXLbaclII-DHFR	TTAAGGTATATATGAATAATAAAAAATTTATATATAATAATACCTGAAGCCCATTTATAAATATAGCTTACCATATTTATTAT ATTATAATTTTTTTTTTATTATTTAAAAATGTTGAATCACAAAATAAATAGTAAATATACTAAATGACAGAAAACGAATTTTTAAAA TATTATATATCTTTATTTTATGTTAATGCAAAATAAAAAGTACAATAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA TCCATGTTTCTTAGCAATTTAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA ACCAAGTCAATAGTTTTTAAATTTACCGTTTTTTTTTAAATAAAAAAGTTTTCATATAACTTTTTACAAAATGCTACAGCATATTTCAAATGAAA AAAAAAAATTTAAAAAATTTAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
MRA-1103	74	PB-108	0703291701H10	2388bp 5' of PFL2515c	4875bp 5' of PFL2520w	87.9	pLbaclI-HDH-eGFP	TTAAGGAAGATATGCATTACGAAAGGAAACCTTTAAACATATTTTTACTAGCAAAAATGTTGATATTTGCCGGCTTGTGTTTTATGA ACATATTTCTTTTTATGTTCCAGGTTTAAAGGAAGATGAAATCATGGAATATTACTACAATATTCATGGAAACATTTATTTATA AGTTTAAATTTGTTATCTCTGAAAAAATTTCCATTTTCCATTTTTCAGATTTTTTTTATCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT TACCATTTTTATCATTGAAATTAAGAAATAATAAATGATTGCTTTAATACATTTGTTGTTTTTCCCTTTATATCTTTATGTTTTTTC TAGATACCATATAAGATTTATTCGTTTTTAAATATTTTATACATTTATATATATGTTGAAAGGATTTAGATTAATAAAGACATGCAAT TATTCATATATCTCATGTTCTTTTTTTCACATATGTTTCAATTTTTTTTCT
MRA-1105	76	PB-111	0702090101C07	1529bp 5' of PFl0_0048	81bp 5' of PFl0_0049	89.2	pLbaclI-HDH-GFP	TTAAGGAAGATATGCATTACGAAAGGAAACCTTTAAACATATTTTTACTAGCAAAAATGTTGATATTTGCCGGCTTGTGTTTTATGA ACATATTTCTTTTTATGTTCCAGGTTTAAAGGAAGATGAAATCATGGAATATTACTACAATATTCATGGAAACATTTATTTATA AGTTTAAATTTGTTATCTCTGAAAAAATTTCCATTTTCCATTTTTCAGATTTTTTTTATCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT TACCATTTTTATCATTGAAATTAAGAAATAATAAATGATTGCTTTAATACATTTGTTGTTTTTCCCTTTATATCTTTATGTTTTTTC TAGATACCATATAAGATTTATTCGTTTTTAAATATTTTATACATTTATATATATGTTGAAAGGATTTAGATTAATAAAGACATGCAAT TATTCATATATCTCATGTTCTTTTTTTCACATATGTTTCAATTTTTTTTCT
MRA-1106	77	PB-107	0606070501G11	1885bp 5' of PFE0245c	762bp 5' of PFE0250w	89.2	pLbaclI-HDH	TTAAGGAAGATATGCATTACGAAAGGAAACCTTTAAACATATTTTTACTAGCAAAAATGTTGATATTTGCCGGCTTGTGTTTTATGA ACATATTTCTTTTTATGTTCCAGGTTTAAAGGAAGATGAAATCATGGAATATTACTACAATATTCATGGAAACATTTATTTATA AGTTTAAATTTGTTATCTCTGAAAAAATTTCCATTTTCCATTTTTCAGATTTTTTTTATCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT TACCATTTTTATCATTGAAATTAAGAAATAATAAATGATTGCTTTAATACATTTGTTGTTTTTCCCTTTATATCTTTATGTTTTTTC TAGATACCATATAAGATTTATTCGTTTTTAAATATTTTATACATTTATATATATGTTGAAAGGATTTAGATTAATAAAGACATGCAAT TATTCATATATCTCATGTTCTTTTTTTCACATATGTTTCAATTTTTTTTCT
MRA-1107	78	PB-52	0606130102B06	169bp 3' of PFl1_0378	846bp 5' of PFl1_0379	89.2	pLbaclI-HDH-eGFP	TTAAGGAAGATATGCATTACGAAAGGAAACCTTTAAACATATTTTTACTAGCAAAAATGTTGATATTTGCCGGCTTGTGTTTTATGA ACATATTTCTTTTTATGTTCCAGGTTTAAAGGAAGATGAAATCATGGAATATTACTACAATATTCATGGAAACATTTATTTATA AGTTTAAATTTGTTATCTCTGAAAAAATTTCCATTTTCCATTTTTCAGATTTTTTTTATCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT TACCATTTTTATCATTGAAATTAAGAAATAATAAATGATTGCTTTAATACATTTGTTGTTTTTCCCTTTATATCTTTATGTTTTTTC TAGATACCATATAAGATTTATTCGTTTTTAAATATTTTATACATTTATATATATGTTGAAAGGATTTAGATTAATAAAGACATGCAAT TATTCATATATCTCATGTTCTTTTTTTCACATATGTTTCAATTTTTTTTCT
MRA-1108	79	PB-96	0607260601G06	4865bp 5' of PFL0360c	1076bp 3' of PFL0365c	91.8	pLbaclI-HDH-eGFP	TTAAGGAAGATATGCATTACGAAAGGAAACCTTTAAACATATTTTTACTAGCAAAAATGTTGATATTTGCCGGCTTGTGTTTTATGA ACATATTTCTTTTTATGTTCCAGGTTTAAAGGAAGATGAAATCATGGAATATTACTACAATATTCATGGAAACATTTATTTATA AGTTTAAATTTGTTATCTCTGAAAAAATTTCCATTTTCCATTTTTCAGATTTTTTTTATCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT TACCATTTTTATCATTGAAATTAAGAAATAATAAATGATTGCTTTAATACATTTGTTGTTTTTCCCTTTATATCTTTATGTTTTTTC TAGATACCATATAAGATTTATTCGTTTTTAAATATTTTATACATTTATATATATGTTGAAAGGATTTAGATTAATAAAGACATGCAAT TATTCATATATCTCATGTTCTTTTTTTCACATATGTTTCAATTTTTTTTCT
MRA-1109	80	PB-5	0702090102B05	PFl1_0431		91.8	pLbaclI-HDH-GFP	TTAAGGAAGATATGCATTACGAAAGGAAACCTTTAAACATATTTTTACTAGCAAAAATGTTGATATTTGCCGGCTTGTGTTTTATGA ACATATTTCTTTTTATGTTCCAGGTTTAAAGGAAGATGAAATCATGGAATATTACTACAATATTCATGGAAACATTTATTTATA AGTTTAAATTTGTTATCTCTGAAAAAATTTCCATTTTCCATTTTTCAGATTTTTTTTATCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT TACCATTTTTATCATTGAAATTAAGAAATAATAAATGATTGCTTTAATACATTTGTTGTTTTTCCCTTTATATCTTTATGTTTTTTC TAGATACCATATAAGATTTATTCGTTTTTAAATATTTTATACATTTATATATATGTTGAAAGGATTTAGATTAATAAAGACATGCAAT TATTCATATATCTCATGTTCTTTTTTTCACATATGTTTCAATTTTTTTTCT
MRA-1110	81	PB-58	0606070401B05	1003bp 5' of PFl3_0238	1842bp 3' of MAL13P1.219	93.1	pLbaclI-HDH	TTAAGGAAGATATGCATTACGAAAGGAAACCTTTAAACATATTTTTACTAGCAAAAATGTTGATATTTGCCGGCTTGTGTTTTATGA ACATATTTCTTTTTATGTTCCAGGTTTAAAGGAAGATGAAATCATGGAATATTACTACAATATTCATGGAAACATTTATTTATA AGTTTAAATTTGTTATCTCTGAAAAAATTTCCATTTTCCATTTTTCAGATTTTTTTTATCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT TACCATTTTTATCATTGAAATTAAGAAATAATAAATGATTGCTTTAATACATTTGTTGTTTTTCCCTTTATATCTTTATGTTTTTTC TAGATACCATATAAGATTTATTCGTTTTTAAATATTTTATACATTTATATATATGTTGAAAGGATTTAGATTAATAAAGACATGCAAT TATTCATATATCTCATGTTCTTTTTTTCACATATGTTTCAATTTTTTTTCT
MRA-1111	82	PB-112	0608020401A11	5127bp 3' of MAL7P1.171	2016bp 5' of MAL7P1.172	93.1	pLbaclI-HDH-GFP	TTAAGGAAGATATGCATTACGAAAGGAAACCTTTAAACATATTTTTACTAGCAAAAATGTTGATATTTGCCGGCTTGTGTTTTATGA ACATATTTCTTTTTATGTTCCAGGTTTAAAGGAAGATGAAATCATGGAATATTACTACAATATTCATGGAAACATTTATTTATA AGTTTAAATTTGTTATCTCTGAAAAAATTTCCATTTTCCATTTTTCAGATTTTTTTTATCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT TACCATTTTTATCATTGAAATTAAGAAATAATAAATGATTGCTTTAATACATTTGTTGTTTTTCCCTTTATATCTTTATGTTTTTTC TAGATACCATATAAGATTTATTCGTTTTTAAATATTTTATACATTTATATATATGTTGAAAGGATTTAGATTAATAAAGACATGCAAT TATTCATATATCTCATGTTCTTTTTTTCACATATGTTTCAATTTTTTTTCT
MRA-1112	83	PB-106	0608100601B06	2090bp 5' of PFl1_0404	8994bp 3' of PFl1_0405	93.1	pLbaclI-HBH	TTAAGGAAGATATGCATTACGAAAGGAAACCTTTAAACATATTTTTACTAGCAAAAATGTTGATATTTGCCGGCTTGTGTTTTATGA ACATATTTCTTTTTATGTTCCAGGTTTAAAGGAAGATGAAATCATGGAATATTACTACAATATTCATGGAAACATTTATTTATA AGTTTAAATTTGTTATCTCTGAAAAAATTTCCATTTTCCATTTTTCAGATTTTTTTTATCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT TACCATTTTTATCATTGAAATTAAGAAATAATAAATGATTGCTTTAATACATTTGTTGTTTTTCCCTTTATATCTTTATGTTTTTTC TAGATACCATATAAGATTTATTCGTTTTTAAATATTTTATACATTTATATATATGTTGAAAGGATTTAGATTAATAAAGACATGCAAT TATTCATATATCTCATGTTCTTTTTTTCACATATGTTTCAATTTTTTTTCT
MRA-1113	84	PB-45	b B04	1986bp 5' of PFL1300c	148bp 3' of PFL1305c	93.1	pXLbaclII-DHFR	TTAAGGAAGATATGCATTACGAAAGGAAACCTTTAAACATATTTTTACTAGCAAAAATGTTGATATTTGCCGGCTTGTGTTTTATGA ACATATTTCTTTTTATGTTCCAGGTTTAAAGGAAGATGAAATCATGGAATATTACTACAATATTCATGGAAACATTTATTTATA AGTTTAAATTTGTTATCTCTGAAAAAATTTCCATTTTCCATTTTTCAGATTTTTTTTATCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT TACCATTTTTATCATTGAAATTAAGAAATAATAAATGATTGCTTTAATACATTTGTTGTTTTTCCCTTTATATCTTTATGTTTTTTC TAGATACCATATAAGATTTATTCGTTTTTAAATATTTTATACATTTATATATATGTTGAAAGGATTTAGATTAATAAAGACATGCAAT TATTCATATATCTCATGTTCTTTTTTTCACATATGTTTCAATTTTTTTTCT

