

Alignment for COSII At4g27700 PCR fragment sequence, UW-Madison, June 3, 2006  
 Green sequences are exons for SGN-U218461 only marked for Heinz 1706  
 NAMES: Heinz, Gc9-a-1, Gh902-a, LA1777

Heinz		0
Gc9-a-1		0
Gh902-a	agctactaaacctgctaaatcaccaggatataatagtgccggagc	43
1777	gctactaaacctgctaaatcaccggatataatagctttttaagataattcagtgccgaagc	60
Consensus		
Heinz	TACAATATTAAATATACACTCATAATAAGTCCATATTTTA	40
Gc9-a-1	TCaATgTTTTA	11
Gh902-a	cagaaatntagcgaaggatgTACAATATTAAATATACACTCATAATAAGTCaATgTTTTA	103
1777	ccgaaatttaaccanctnTACgATATTgAATATACnCTCATnATTAGTCaAcAnnn.A	119
Consensus	tc a a	
Heinz	ACCCTCAGTACACTACATAA <b>TTTTCTAACAA</b> AGGATGTGCACTGGACTACCCTTCGCC..	98
Gc9-a-1	ACCCTCAtTgCcCTACATAA <b>TTTTCTAACAA</b> AGGATGTGCACTaGACTACCCTTCGCC <b>t a</b>	71
Gh902-a	ACCCTCAtTgCACTACATAA <b>TTTTCTAACAA</b> AGGATGTGCACTaGACTACCCTTCGCC <b>t a</b>	163
1777	ACCCTtAGTnCTACATAA.....AGGATGTtCACTaGACTACCCTTCGCC <b>t a</b>	168
Consensus	acct a t c ctacataa aggatgt cact gactacccttcgcc	
Heinz	.....CTGCCTATGATTAAAGACTTCTTTTTGTGTGTTTTACTATTATAA	144
Gc9-a-1	<b>aggtggcttcgccc</b> CTGCCTATGAcTAAAGACTTCTTTTTGTGTGTTTTACTATTATAA	131
Gh902-a	<b>aggtggcttcgccc</b> CTGCCTATGAcTAAAGACTTCTTTTTGTGTGTTTTACTATTATAA	223
1777	<b>aggtggcttcgccc</b> CTGCCTATGATTAAAGACTTCTTTTTGTGTGTTTTnCTnTTATAA	228
Consensus	ctgcctatga taaagacttctttttgtgtgTTTT ct ttataa	
Heinz	CCATTGTTTTTT..... TTTGGTGG <b>AGTAGCTGAAGAAGAGTGGTCAACTAAA</b>	192
Gc9-a-1	CCATTGTTTTTT..... <b>TT</b> tttGGTGGAGTAGCTGAAGAAGAGTGGTCAACTAAA	181
Gh902-a	CCATTGTTTTTT..... <b>TT</b> tttGGTGGAGTAGCTGAAGAAGAGTGGTCAACTAAA	273
1777	CCATTGTTTTTT <b>gttggtgttt</b> <b>TT</b> tttGGTGGAGTAGCTGAAGAAGAGTGGTCAACTAAA	288
Consensus	ccattgtttttt ttttt gtggagtagctgaagaagagtgggtcaactaaa	
Heinz	<b>AGAGCAAAATTGCTTGAGAAAAGGG</b> TAAAACAATCTCTCTTTTTCTCTAGTTTTGCATAT	252
Gc9-a-1	AGAGCAAAATTGCTTGAGAAAAGGGTAAAACAAtTCTCTCTTTTTCCcTAaTTTTGtATAT	241
Gh902-a	AGAGCAAAATTGCTTGAGAAAAGGGTAAAACAAtTCTCTCTTTTTCCcTAaTTTTGtATAT	333
1777	AGAGCAAAATTGCTTGAGAAAAGGGTAAAACAATCTCTCTTTTTCTCTAtTTTTntngnT	348
Consensus	agagcaaaattgcttgagaaaagggtaaaaca tctctctttttc cta tttt t	
Heinz	CATCAACAAAAGGAAACACTACAAGTTATGATCATCAATTGATTAATGCATAAAAAGAATT	312
Gc9-a-1	tATCAACAAAAGGAAACACTACAAGTTATGATCATCAATTGATTAATGCATAAAAAGAATT	301
Gh902-a	tATCAACAAAAGGAAACACTACAAGTTATGATCATCAATTGATTAATGCATAAAAAGAATT	393
1777	tATCAgCAAAAGGAAACACTACAAGTTATGATCATCAATTaATTAATGCATAAAAAGAATT	408
Consensus	atca caaaaggaaacactacaagttatgatcatcaatt attaatgcataaaaagaatt	
Heinz	GATAATCCA.ATTTTTGTTCATTTCATGCCTATTAGTTTTAGAGAATCTAACAAGGCATAGT	371
Gc9-a-1	GATAATCCA.nnnnTTTGTTCATTTCATGCCTATaAGTTTTAGAGAATCTAACnnnnnnnnnT	360
Gh902-a	GATAATCCA.nnTgTTTGTTCATTTCATGCCTATaAGTTTTAGAGAATCTAACAAGGnnnAGT	452
1777	GAgAATCCtnAangggTGTTCATTTCATGCCTATTAGTTTTAGAGnATC	454
Consensus	ga aatcc tgtcattcatgcctat agtttagag atc	
Heinz	ATGTAAATTT <b>CAGGTAAGGAGTGTGAGGCAAAAGAAGCATTAGACTTCAGAAAGAGAA</b>	431
Gc9-a-1	ATGTAAATTT <b>CAGGTAAGG</b>	379
Gh902-a	ATGTAAATTT <b>CAGGTAAGG</b> nGTGTTGAGGCAAAAGA	488
Heinz	<b>CAATTTTGTGATTCTTGATGTACGACCTGAAGCCG</b>	466

