

		360		380		400	
atp1_GM10_DNA-2	TGATGGAAA	GGGGCTCTAA	GCGATCACGA	ACGAAGACGT	GTCGAAGTGA		400
Translation +1	D G K	G A L	S D H E	R R R	V E V		
atp1 GM CONTROL-2	.....	.....	.....	.....	.....		400
Translation +1	D G K	G A L	S D H E	R R R	V E V		
atp1 GM 2h	.....	.....	.....	.....	.....		400
Translation +1	D G K	G A L	S D H E	R R R	V E V		
atp1 GM12H	.....	.....	.....	.....	.....		400
Translation +1	D G K	G A L	S D H E	R R R	V E V		
		420		440			
atp1_GM10_DNA-2	AAGCCCCAGG	GATTATTGAA	CGTAAATCTG	TGCACGAACC	CATGCAAACA		450
Translation +1	K A P G	I I E	R K S	V H E P	M Q T		
atp1 GM CONTROL-2	.....	.....	.....	.....	.....		450
Translation +1	K A P G	I I E	R K S	V H E P	M Q T		
atp1 GM 2h	.....	.....	.....	.....	.....		450
Translation +1	K A P G	I I E	R K S	V H E P	M Q T		
atp1 GM12H	.....	.....	.....	.....	.....		450
Translation +1	K A P G	I I E	R K S	V H E P	M Q T		
		460		480		500	
atp1_GM10_DNA-2	GGCTTAAAAG	CAGTGGATAG	CCTGGTTCCT	ATAGGCCGTG	GTCAACGAGA		500
Translation +1	G L K	A V D S	L V P	I G R	G Q R E		
atp1 GM CONTROL-2	.....	.....	.....	.....	.....		500
Translation +1	G L K	A V D S	L V P	I G R	G Q R E		
atp1 GM 2h	.....	.....	.....	.....	.....		500
Translation +1	G L K	A V D S	L V P	I G R	G Q R E		
atp1 GM12H	.....	.....	.....	.....	.....		500
Translation +1	G L K	A V D S	L V P	I G R	G Q R E		
		520		540			
atp1_GM10_DNA-2	ACTTATAATC	GGGGACAGAC	AAACTGGAAA	AACTGCAATA	GCTATCGATA		550
Translation +1	L I I	G D R	Q T G K	T A I	A I D		
atp1 GM CONTROL-2	.....	.....	.....	.....	.....		550
Translation +1	L I I	G D R	Q T G K	T A I	A I D		
atp1 GM 2h	.....	.....	.....	.....	.....		550
Translation +1	L I I	G D R	Q T G K	T A I	A I D		
atp1 GM12H	.....	.....	.....	.....	.....		550
Translation +1	L I I	G D R	Q T G K	T A I	A I D		
		560		580		600	
atp1_GM10_DNA-2	CTATATTTAA	CCAAAAGCAA	ATGAACTCAA	GGGGCACAAA	TGAGAGTGAG		600
Translation +1	T I L N	Q K Q	M N S	R G T N	E S E		
atp1 GM CONTROL-2	.....	.....	.....	.....	.....		600
Translation +1	T I L N	Q K Q	M N S	R G T N	E S E		
atp1 GM 2h	.....	.....	.....	.....	.....		600
Translation +1	T I L N	Q K Q	M N S	R G T N	E S E		
atp1 GM12H	.....	.....	.....	.....	.....		600
Translation +1	T I L N	Q K Q	M N S	R G T N	E S E		
		620		640			
atp1_GM10_DNA-2	ACATTGTATT	GTGTCTATGT	TGCGATTGGA	CAAAAACGCT	CGACTGTGGC		650
Translation +1	T L Y	C V Y V	A I G	Q K R	S T V A		
atp1 GM CONTROL-2	.....	.....	.....	.....	.....		650
Translation +1	T L Y	C V Y V	A I G	Q K R	S T V A		
atp1 GM 2h	.....	.....	.....	.....	.....		650
Translation +1	T L Y	C V Y V	A I G	Q K R	S T V A		
atp1 GM12H	.....	.....	.....	.....	.....		650
Translation +1	T L Y	C V Y V	A I G	Q K R	S T V A		
		660		680		700	
atp1_GM10_DNA-2	ACAATTAGTT	CAAATCTTT	CAGAAGCGAA	TGCTTTGGAA	TATTCCATTC		700
Translation +1	Q L V	Q I L	S E A N	A L E	Y S I		
atp1 GM CONTROL-2	.....	.....	.....	.....	.....		700
Translation +1	Q L V	Q I L	S E A N	A L E	Y S I		
atp1 GM 2h	.....	.....	.....	.....	.....		700
Translation +1	Q L V	Q I L	S E A N	A L E	Y S I		
atp1 GM12H	.....	.....	.....	.....	.....		700
Translation +1	Q L V	Q I L	S E A N	A L E	Y S I		

				720				740		
atp1_GM10_DNA-2	TTGTAGCAGC	CACCGCTTCG	GATCCTGCTC		CTCTGCAATT	TCTGGCCCCA				750
Translation +1	L V A A	T A S	D P A		P L Q F	L A P				
atp1 GM CONTROL-2	.....	.....	.....		.....	.....				750
Translation +1	L V A A	T A S	D P A		P L Q F	L A P				
atp1 GM 2h	.....	.....	.....		.....	.....				750
Translation +1	L V A A	T A S	D P A		P L Q F	L A P				
atp1 GM12H	.....	.....	.....		.....	.....				750
Translation +1	L V A A	T A S	D P A		P L Q F	L A P				
		760			780				800	
atp1_GM10_DNA-2	TATTCAGGGT	GTGCCATGGG	GGAATATTTT		CGCGATAATG	GAATGCACGC				800
Translation +1	Y S G	C A M G	E Y F		R D N	G M H A				
atp1 GM CONTROL-2	.....	.....	.....		.....	.....				800
Translation +1	Y S G	C A M G	E Y F		R D N	G M H A				
atp1 GM 2h	.....	.....	.....		.....	.....				800
Translation +1	Y S G	C A M G	E Y F		R D N	G M H A				
atp1 GM12H	.....	.....	.....		.....	.....				800
Translation +1	Y S G	C A M G	E Y F		R D N	G M H A				
			820			840				
atp1_GM10_DNA-2	ATTAATTATA	TATGATGATC	TAAGTAAACA		GGCGGTGGCA	TATCGACAAA				850
Translation +1	L I I	Y D D	L S K Q		A V A	Y R Q				
atp1 GM CONTROL-2	.....	.....	.....		.....	.....				850
Translation +1	L I I	Y D D	L S K Q		A V A	Y R Q				
atp1 GM 2h	.....	.....	.....		.....	.....				850
Translation +1	L I I	Y D D	L S K Q		A V A	Y R Q				
atp1 GM12H	.....	.....	.....		.....	.....				850
Translation +1	L I I	Y D D	L S K Q		A V A	Y R Q				
		860			880				900	
atp1_GM10_DNA-2	TGTCATTATT	GTTACGCCGA	CCACCAGGCC		GTGAGGCTTT	CCCAGGGGAT				900
Translation +1	M S L L	L R R	P P G		R E A F	P G D				
atp1 GM CONTROL-2	.....	.....	.....		.....	.....				900
Translation +1	M S L L	L R R	P P G		R E A F	P G D				
atp1 GM 2h	.....	.....	.....		.....	.....				900
Translation +1	M S L L	L R R	P P G		R E A F	P G D				
atp1 GM12H	.....	.....	.....		.....	.....				900
Translation +1	M S L L	L R R	P P G		R E A F	P G D				
			920			940				
atp1_GM10_DNA-2	GTTTTCTATT	TACATTCCCG	TCTCTTAGAA		AGAGCCGCTA	AACGATCGGA				950
Translation +1	V F Y	L H S R	L L E		R A A	K R S D				
atp1 GM CONTROL-2	.....	.....	.....		.....	.....				950
Translation +1	V F Y	L H S R	L L E		R A A	K R S D				
atp1 GM 2h	.....	.....	.....		.....	.....				950
Translation +1	V F Y	L H S R	L L E		R A A	K R S D				
atp1 GM12H	.....	.....	.....		.....	.....				950
Translation +1	V F Y	L H S R	L L E		R A A	K R S D				
		960			980				1,000	
atp1_GM10_DNA-2	CCAGACAGGT	GCAGGTAGCT	CGACTGCGTT		ACCCGTGATT	GAGACTCAAT				1000
Translation +1	Q T G	A G S	S T A L		P V I	E T Q				
atp1 GM CONTROL-2	.....	.....	.....		.....	.....				1000
Translation +1	Q T G	A G S	L T A L		P V I	E T Q				
atp1 GM 2h	.....	.....	.....		.....	.....				1000
Translation +1	Q T G	A G S	L T A L		P V I	E T Q				
atp1 GM12H	.....	.....	.....		.....	.....				1000
Translation +1	Q T G	A G S	L T A L		P V I	E T Q				
			1,020			1,040				
atp1_GM10_DNA-2	CTGGAGACGT	TTCCGCCTAT	ATTCCTACTA		ATGTAATCTC	CATTACAGAT				1050
Translation +1	S G D V	S A Y	I P T		N V I S	I T D				
atp1 GM CONTROL-2	.....	.....	.....		.....	.....				1050
Translation +1	S G D V	S A Y	I P T		N V I S	I T D				
atp1 GM 2h	.....	.....	.....		.....	.....				1050
Translation +1	S G D V	S A Y	I P T		N V I S	I T D				
atp1 GM12H	.....	.....	.....		.....	.....				1050
Translation +1	S G D V	S A Y	I P T		N V I S	I T D				

		1,060		1,080		1,100	
atp1_GM10_DNA-2	GGACAAATCT	GTTTGGAAAC	AGAGCTCTTT	TATCGGGAA	TTAGACCAGC		1100
Translation +1	G Q I C L E T	E L F Y R G	I R P A				
atp1 GM CONTROL-2	.....	.....	.....	.....	.....		1100
Translation +1	G Q I C L E T	E L F Y R G	I R P A				
atp1 GM 2h	.....	.....	.....	.....	.....		1100
Translation +1	G Q I C L E T	E L F Y R G	I R P A				
atp1 GM12H	.....	.....	.....	.....	.....		1100
Translation +1	G Q I C L E T	E L F Y R G	I R P A				
		1,120		1,140			
atp1_GM10_DNA-2	TATTAACGTT	GGCTTATCCG	TCAGTCGCGT	CGGGTCTGCC	GCTCAGTTGA		1150
Translation +1	I N V G L S	V S R V	G S A A Q L				
atp1 GM CONTROL-2	.....	.....	.....	.....	.....		1150
Translation +1	I N V G L S	V S R V	G S A A Q L				
atp1 GM 2h	.....	.....	.....	.....	.....		1150
Translation +1	I N V G L S	V S R V	G S A A Q L				
atp1 GM12H	.....	.....	.....	.....	.....		1150
Translation +1	I N V G L S	V S R V	G S A A Q L				
		1,160		1,180		1,200	
atp1_GM10_DNA-2	AAGCTATGAA	ACAAGTCTGC	GGTAGTTCAA	AACTGGAATT	GGCACAATAT		1200
Translation +1	K A M K	Q V C G S S	K L E L A Q Y				
atp1 GM CONTROL-2	.....	.....	.....	.....	.....		1200
Translation +1	K A M K	Q V C G S L	K L E L A Q Y				
atp1 GM 2h	.....	.....	.....	.....	.....		1200
Translation +1	K A M K	Q V C G S L	K L E L A Q Y				
atp1 GM12H	.....	.....	.....	.....	.....		1200
Translation +1	K A M K	Q V C G S L	K L E L A Q Y				
		1,220		1,240			
atp1_GM10_DNA-2	CGCGAAGTGG	CCGCCTTCGC	TCAATTTGGG	TCAGACCTTG	ATGCTGCGAC		1250
Translation +1	R E V A A F A	Q F G S D L	D A A T				
atp1 GM CONTROL-2	.....	.....	.....	.....	.....		1250
Translation +1	R E V A A F A	Q F G S D L	D A A T				
atp1 GM 2h	.....	.....	.....	.....	.....		1250
Translation +1	R E V A A F A	Q F G S D L	D A A T				
atp1 GM12H	.....	.....	.....	.....	.....		1250
Translation +1	R E V A A F A	Q F G S D L	D A A T				
		1,260		1,280		1,300	
atp1_GM10_DNA-2	TCAGGCATTA	CTCAATAGAG	GTGCAAGGCT	TACAGAAGTG	CCCAAACAAC		1300
Translation +1	Q A L L N R	G A R L T E V	P K Q				
atp1 GM CONTROL-2	.....	.....	.....	.....	.....		1300
Translation +1	Q A L L N R	G A R L T E V	L K Q				
atp1 GM 2h	.....	.....	.....	.....	.....		1300
Translation +1	Q A L L N R	G A R L T E V	L K Q				
atp1 GM12H	.....	.....	.....	.....	.....		1300
Translation +1	Q A L L N R	G A R L T E V	L K Q				
		1,320		1,340			
atp1_GM10_DNA-2	CACAAATGA	ACCACTTCCA	ATTGAAAAAC	AAATTGTTGT	GATTTATGCT		1350
Translation +1	P Q Y E P L P	I E K Q I V V	I Y A				
atp1 GM CONTROL-2	.....	.....	.....	.....	.....		1350
Translation +1	P Q Y E P L P	I E K Q I V V	I Y A				
atp1 GM 2h	.....	.....	.....	.....	.....		1350
Translation +1	P Q Y E P L P	I E K Q I V V	I Y A				
atp1 GM12H	.....	.....	.....	.....	.....		1350
Translation +1	P Q Y E P L P	I E K Q I V V	I Y A				
		1,360		1,380		1,400	
atp1_GM10_DNA-2	GCTGTCAACG	GCTTCTGTGA	TCGAATGCCA	CTAGACAGAA	TTTCTCAATA		1400
Translation +1	A V N G F C D	R M P L D R	I S Q Y				
atp1 GM CONTROL-2	.....	.....	.....	.....	.....		1400
Translation +1	A V N G F C D	R M P L D R	I S Q Y				
atp1 GM 2h	.....	.....	.....	.....	.....		1400
Translation +1	A V N G F C D	R M P L D R	I S Q Y				
atp1 GM12H	.....	.....	.....	.....	.....		1400
Translation +1	A V N G F C D	R M P L D R	I S Q Y				

				1,420				1,440		
atp1_GM10_DNA-2	TGAAAAAGCC	ATTCTAAGTA	CTATTAATCC		AGAATTACAA	AAATCCTTCT				1450
Translation +1	E K A	I L S	T I N P		E L Q	K S F				
atp1 GM CONTROL-2	.....	.....	.....		.....	.....				1450
Translation +1	E K A	I L S	T I N P		E L Q	K S F				
atp1 GM 2h	.....	.....	.....		.....	.....				1450
Translation +1	E K A	I L S	T I N P		E L Q	K S F				
atp1 GM12H	.....	.....	.....		.....	.....				1450
Translation +1	E K A	I L S	T I N P		E L Q	K S F				
		1,460			1,480				1,500	
atp1_GM10_DNA-2	TAGAAAAAGG	TGGCTTAACT	AACGAAAGAA		AGATGGAACC	AGATGCTTCT				1500
Translation +1	L E K G	G L T	N E R		K M E P	D A S				
atp1 GM CONTROL-2	.....	.....	.....		.....	.....				1500
Translation +1	L E K G	G L T	N E R		K M E L	D A F				
atp1 GM 2h	.....	.....	.....		.....	.....				1500
Translation +1	L E K G	G L T	N E R		K M E L	D A F				
atp1 GM12H	.....	.....	.....		.....	.....				1500
Translation +1	L E K G	G L T	N E R		K M E L	D A F				
				1,520						
atp1_GM10_DNA-2	TTAAAAGAAA	GCACTTTGCC	TTACCTGTGA							1530
Translation +1	L K E	S T L P	Y L *							
atp1 GM CONTROL-2	.....	.....	.....							1530
Translation +1	L K E	S T L P	Y L *							
atp1 GM 2h	.....	.....	.....							1530
Translation +1	L K E	S T L P	Y L *							
atp1 GM12H	.....	.....	.....							1530
Translation +1	L K E	S T L P	Y L *							