

mPKCbeta2_ORF -> Genes

DNA	sequence	2022	b.p.	ATGGCTGACCCG ...	GTCAAGAGCTAA	linear		
1	ATG GCT GAC CCG GCT GCG GGG CCG CCG CCG AGC GAG GGC GAG GAG AGC ACA GTG CGC TTC GCC CGC AAA GGC GCC						75	
1	M A D P A A G P P P S E G E E S T V R F A R K G A						25	
76	CTC CGG CAG AAG AAC GTG CAC GAG GTG AAG AAC CAC AAA TTC ACC GCC CGC TTC TTC AAG CAG CCC ACC TTC TGC						150	
26	L R Q K N V H E V K N H K F T A R F F K Q P T F C						50	
151	AGC CAC TGC ACC GAC TTC ATC TGG GGC TTC GGG AAG CAG GGA TTC CAG TGT CAA GTC TGC TGC TTT GTT GTA CAC						225	
51	S H C T D F I W G F G K Q G F Q C Q V C C F V V H						75	
226	AAG CGC TGC CAT GAG TTC GTC ACG TTC TCC TGC CCC GGT GCG GAC AAG GGC CCG GCC TCT GAT GAC CCC CGG AGC						300	
76	K R C H E F V T F S C P G A D K G P A S D D P R S						100	
301	AAA CAC AAG TTT AAG ATC CAC ACG TAC TCC AGT CCT ACC TTC TGT GAC CAC TGT GGA TCG CTG CTG TAT GGA CTT						375	
101	K H K F K I H T Y S S P T F C D H C G S L L Y G L						125	
376	ATT CAC CAG GGG ATG AAA TGC GAC ACC TGT ATG ATG AAC GTG CAC AAG CGC TGC GTG ATG AAC GTC CCC AGC CTC						450	
126	I H Q G M K C D T C M M N V H K R C V M N V P S L						150	
451	TGC GGC ACT GAC CAC ACG GAA CGC CGC GGC CGC ATC TAT ATC CAG GCC CAC ATC GAC AGA GAG GTT CTC ATT GTT						525	
151	C G T D H T E R R G R I Y I Q A H I D R E V L I V						175	
526	GTT GTA AGA GAT GCT AAA AAT CTG GTA CCT ATG GAC CCC AAT GGC TTG TCA GAT CCC TAC GTT AAA CTG AAA CTG						600	
176	V V R D A K N L V P M D P N G L S D P Y V K L K L						200	
601	ATC CCT GAT CCC AAA AGT GAG AGC AAA CAG AAG ACC AAG ACC ATC AAG TGT TCC CTC AAT CCA GAG TGG AAT GAA						675	
201	I P D P K S E S K Q K T K T I K C S L N P E W N E						225	
676	ACC TTC AGA TTT CAG CTG AAG GAA TCA GAC AAA GAC AGA AGA CTG TCT GTA GAG ATC TGG GAT TGG GAC CTG ACC						750	
226	T F R F Q L K E S D K D R R L S V E I W D W D L T						250	
751	AGC AGG AAT GAC TTC ATG GGA TCT CTG TCA TTT GGG ATT TCA GAA CTA CAG AAA GCC GGT GTG GAT GGC TGG TTC						825	
251	S R N D F M G S L S F G I S E L Q K A G V D G W F						275	
826	AAG TTA CTA AGC CAG GAA GAG GGT GAA TAC TTC AAT GTG CCC GTG CCG CCC GAA GGA AGC GAG GGC AAT GAA GAG						900	
276	K L L S Q E E G E Y F N V P V P P E G S E G N E E						300	
901	CTG CGG CAG AAG TTT GAG AGA GCC AAG ATT GGC CAA GGT ACC AAG GCT CCA GAA GAA AAG ACA GCT AAC ACT ATC						975	
301	L R Q K F E R A K I G Q G T K A P E E K T A N T I						325	
976	TCC AAA TTT GAC AAC AAT GGC AAC AGG GAC CGG ATG AAA CTG ACC GAT TTT AAC TTC CTG ATG GTG CTG GGG AAA						1050	
326	S K F D N N G N R D R M K L T D F N F L M V L G K						350	
1051	GGC AGC TTT GGC AAG GTC ATG CTC TCA GAG CGG AAG GGT ACA GAT GAA CTC TAT GCC GTG AAG ATC CTG AAG AAG						1125	
351	G S F G K V M L S E R K G T D E L Y A V K I L K K						375	
1126	GAC GTG GTG ATC CAA GAT GAC GAT GTG GAG TGC ACC ATG GTG GAG AAG CGG GTG CTG GCC CTG CCT GGG AAG CCC						1200	
376	D V V I Q D D D V E C T M V E K R V L A L P G K P						400	
1201	CCG TTC CTG ACT CAG CTC CAT TCC TGC TTC CAG ACC ATG GAC CGC CTG TAC TTT GTG ATG GAG TAT GTG AAC GGG						1275	
401	P F L T Q L H S C F Q T M D R L Y F V M E Y V N G						425	
1276	GGT GAC CTC ATG TAC CAC ATC CAA CAA GTT GGC CGT TTC AAG GAG CCC CAT GCT GTA TTT TAC GCC GCA GAG ATT						1350	
426	G D L M Y H I Q Q V G R F K E P H A V F Y A A E I						450	
1351	GCC ATC GGT CTG TTC TTC TTG CAG AGC AAG GGC ATT ATT TAC CGC GAC CTG AAA CTT GAC AAC GTG ATG CTG GAT						1425	
451	A I G L F F L Q S K G I I Y R D L K L D N V M L D						475	
1426	TCT GAG GGG CAC ATC AAA ATC GCT GAC TTT GGC ATG TGT AAG GAG AAC ATC TGG GAT GGG GTG ACA ACC AAG ACA						1500	
476	S E G H I K I A D F G M C K E N I W D G V T T K T						500	
1501	TTC TGT GGC ACT CCG GAC TAC ATT GCT CCA GAG ATC ATT GCT TAT CAG CCC TAC GGG AAG TCT GTG GAC TGG TGG						1575	
501	F C G T P D Y I A P E I I A Y Q P Y G K S V D W W						525	
1576	GCA TTT GGA GTC CTG CTG TAT GAA ATG TTG GCT GGC CAG GCA CCG TTT GAA GGG GAG GAT GAG GAT GAA CTC TTC						1650	
526	A F G V L L Y E M L A G Q A P F E G E D E D E L F						550	
1651	CAG TCA ATC ATG GAA CAC AAT GTG GCG TAT CCC AAG TCC ATG TCC AAG GAA GCC GTG GCA ATC TGC AAA GGG CTA						1725	
551	Q S I M E H N V A Y P K S M S K E A V A I C K G L						575	
1726	ATG ACC AAA CAC CCA GGC AAG CGC CTG GGT TGT GGG CCT GAA GGG GAA CGA GAC ATT AAG GAG CAT GCG TTT TTC						1800	
576	M T K H P G K R L G C G P E G E R D I K E H A F F						600	
1801	CGG TAT ATT GAC TGG GAG AAA CTC GAA CGC AAG GAG ATT CAG CCA CCT TAT AAA CCA AAA GCT TGT GGG CGA AAC						1875	
601	R Y I D W E K L E R K E I Q P P Y K P K A C G R N						625	

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1876 GCT GAA AAC TTC GAC CGG TTT TTC ACC CGC CAT CCA CCA GTC CTA ACA CCT CCT GAC CAG GAA GTC ATC AGG AAT 1950
626 A E N F D R F F T R H P P V L T P P D Q E V I R N 650

1951 ATT GAC CAA TCA GAA TTC GAA GGA TTT TCC TTT GTT AAC TCT GAA TTT TTA AAA CCT GAA GTC AAG AGC TAA 2022
651 I D Q S E F E G F S F V N S E F L K P E V K S * 674
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