

WT	ATG	AGG	GGC	ATG	AAG	CTG	CTG	GGG	GCG	CTG	CTG	GCA	CTG	GCG	GCC	CTA	CTG	CAG	GGG	GCC	60
CO	ATG	AGA	GGT	ATG	AAG	TTG	CTC	GGT	GCT	TTA	TTA	GCC	CTT	GCT	GCT	CTT	TTA	TAA	GGT	GCT	
	M	R	G	M	K	L	L	G	A	L	L	A	L	A	A	L	L	Q	G	A	
WT	GTG	TCC	CTG	AAG	ATC	GCA	GCC	TTC	AAC	ATC	CAG	ACA	TTT	GGG	GAG	ACC	AAG	ATG	TCC	AAT	120
CO	GTT	TCC	TTA	AAG	ATC	GCT	GCT	TTC	AAC	ATC	CAA	ACT	TTC	GGT	GAA	ACT	AAG	ATG	TCT	AAC	
	V	S	L	K	I	A	A	F	N	I	Q	T	F	G	E	T	K	M	S	N	
WT	GCC	ACC	CTC	GTC	AGC	TAC	ATT	GTG	CAG	ATC	CTG	AGC	CGC	TAT	GAC	ATC	GCC	CTG	GTC	CAG	180
CO	GCT	ACC	CTC	GTT	TCT	TAT	ATC	GTC	CAG	ATT	CTG	TCC	AGA	TAT	GAT	ATT	GCT	CTC	GTC	TAA	
	A	T	L	V	S	Y	I	V	Q	I	L	S	R	Y	D	I	A	L	V	Q	
WT	GAG	GTC	AGA	GAC	AGC	CAC	CTG	ACT	GCC	GTG	GGG	AAG	CTG	CTG	GAC	AAC	CTC	AAT	CAG	GAT	240
CO	GAA	GTT	AGA	GAT	TCT	CAT	CTC	ACC	GCC	GTC	GGT	AAG	CTT	CTT	GAT	AAT	TTG	AAT	TAA	GAC	
	E	V	R	D	S	H	L	T	A	V	G	K	L	L	D	N	L	N	Q	D	
WT	GCA	CCA	GAC	ACC	TAT	CAC	TAC	GTG	GTC	AGT	GAG	CCA	CTG	GGA	CGG	AAC	AGC	TAT	AAG	GAG	300
CO	GCT	CCC	GAT	ACC	TAT	CAC	TAC	GTC	GTC	TCT	GAA	CCC	TTG	GGT	AGA	AAC	TCT	TAT	AAG	GAA	
	A	P	D	T	Y	H	Y	V	V	S	E	P	L	G	R	N	S	Y	K	E	
WT	CGC	TAC	CTG	TTC	GTG	TAC	AGG	CCT	GAC	CAG	GTG	TCT	GCG	GTG	GAC	AGC	TAC	TAC	TAC	GAT	360
CO	AGA	TAC	TTA	TTC	GTT	TAC	AGA	CCC	GAC	CAA	GTC	TCT	GCT	GTC	GAT	TCC	TAC	TAC	TAT	GAT	
	R	Y	L	F	V	Y	R	P	D	Q	V	S	A	V	D	S	Y	Y	Y	D	
WT	GAT	GGC	TGC	GAG	CCC	TGC	GGG	AAC	GAC	ACC	TTC	AAC	CGA	GAG	CCA	GCC	ATT	GTC	AGG	TTC	420
CO	GAT	GGT	TGC	GAA	CCT	TGC	GGT	AAT	GAT	ACC	TTC	AAC	AGA	GAA	CCT	GCC	ATC	GTT	AGA	TTC	
	D	G	<u>C</u>	E	P	<u>C</u>	G	N	D	T	F	N	R	E	P	A	I	V	R	F	
WT	TTC	TCC	CGG	TTC	ACA	GAG	GTC	AGG	GAG	TTT	GCC	ATT	GTT	CCC	CTG	CAT	GCG	GCC	CCG	GGG	480
CO	TTC	TCT	AGA	TTC	ACC	GAA	GTC	AGA	GAA	TTC	GCT	ATC	GTC	CCC	TTA	CAC	GCT	GCC	CCC	GGT	
	F	S	R	F	T	E	V	R	E	F	A	I	V	P	L	H	A	A	P	G	
WT	GAC	GCA	GTA	GCC	GAG	ATC	GAT	GCT	CTC	TAT	GAC	GTC	TAC	CTG	GAT	GTC	CAA	GAG	AAA	TGG	540
CO	GAC	GCC	GTT	GCT	GAA	ATC	GAT	GCT	TTG	TAC	GAT	GTT	TAC	CTC	GAT	GTC	CAA	GAA	AAG	TGG	
	D	A	V	A	E	I	D	A	L	Y	D	V	Y	L	D	V	Q	E	K	W	
WT	GGC	TTG	GAG	GAC	GTC	ATG	TTG	ATG	GGC	GAC	TTC	AAT	GCG	GGC	TGC	AGC	TAT	GTG	AGA	CCC	600
CO	GGT	CTC	GAA	GAT	GTT	ATG	TTG	ATG	GGT	GAC	TTC	AAC	GCT	GGT	TGC	TCC	TAC	GTT	AGA	CCT	
	G	L	E	D	V	M	L	M	G	D	F	N	A	G	<u>C</u>	S	Y	V	R	P	
WT	TCC	CAG	TGG	TCA	TCC	ATC	CGC	CTG	TGG	ACA	AGC	CCC	ACC	TTC	CAG	TGG	CTG	ATC	CCC	GAC	660
CO	TCT	CAA	TGG	TCC	TCC	ATC	AGA	TTG	TGG	ACT	TCC	CCC	ACT	TTC	CAA	TGG	TTA	ATT	CCT	GAT	
	S	Q	W	S	S	I	R	L	W	T	S	P	T	F	Q	W	L	I	P	D	
WT	AGC	GCT	GAC	ACC	ACA	GCT	ACA	CCC	ACG	CAC	TGT	GCC	TAT	GAC	AGG	ATC	GTG	GTT	GCA	GGG	720
CO	TCC	GCT	GAT	ACC	ACT	GCT	ACC	CCC	ACT	CAC	TGT	GCC	TAC	GAT	AGA	ATT	GTC	GTC	GCT	GGT	
	S	A	D	T	T	A	T	P	T	H	<u>C</u>	A	Y	D	R	I	V	V	A	G	
WT	ATG	CTG	CTC	CGA	GGC	GCC	GTT	GTT	CCC	GAC	TGG	GCT	CTT	CCC	TTT	AAC	TTC	CAG	GCT	GCC	780
CO	ATG	CTT	CTC	AGA	GGT	GCC	GTC	GTC	CCC	GAC	TCC	GCT	CTT	CCC	TTC	AAC	TTC	CAA	GCT	GCT	
	M	L	L	R	G	A	V	V	P	D	S	A	L	P	F	N	F	Q	A	A	
WT	TAT	GGC	CTG	AGT	GAC	CAA	CTG	GCC	CAA	GCC	ATC	AGT	GAC	CAC	TAT	CCA	GTG	GAG	GTG	ATG	840
CO	TAC	GGT	CTT	TCC	GAC	TAA	CTC	GCT	CAA	GCC	ATT	TCT	GAC	CAC	TAC	CCT	GTC	GAA	GTC	ATG	
	Y	G	L	S	D	Q	L	A	Q	A	I	S	D	H	Y	P	V	E	V	M	
WT	CTG	AAG	TGA																	849	
CO	TTG	AAG	TGA																		
	L	K	-																		