

**Component residues:** M13 = 1-26, EYFP = 31-124 and 134-277, CaM = 280-426

**Note:** Numbering refers to amino acid residue, not nucleotide base pair number, in both the amino acid sequence (pg. 1) and the nucleotide sequence (pg. 2).

### Amino Acid Sequence for Inverse Pericam

001	K	R	R	W	K	K	N	F	I	A	V	S	A	A	N	R	F	K	K	I
021	S	S	S	G	A	L	G	S	A	G	Y	N	S	T	N	V	Y	I	M	A
041	D	K	Q	K	N	G	I	K	A	N	F	K	I	R	H	N	I	E	D	G
061	G	V	Q	L	A	D	H	Y	Q	Q	N	T	P	I	G	D	G	P	V	L
081	L	P	D	N	H	Y	L	S	F	Q	S	A	L	S	K	D	P	N	E	K
101	R	D	H	M	V	L	L	E	F	V	T	A	A	G	I	T	L	G	M	D
121	E	L	Y	K	V	D	G	G	S	G	G	T	G	V	S	K	G	E	E	L
141	F	T	G	V	V	P	I	L	V	E	L	D	G	D	V	N	G	H	K	F
161	S	V	S	G	E	G	E	G	D	A	T	Y	G	K	L	T	L	K	L	I
181	C	T	T	G	K	L	P	V	P	W	P	T	L	V	T	T	F	G	Y	G
201	L	K	C	F	A	R	Y	P	D	H	M	K	Q	H	D	F	F	K	S	A
221	M	P	E	G	Y	V	Q	E	R	T	I	F	F	K	D	D	G	N	Y	K
241	T	R	A	E	V	K	F	E	G	D	T	L	V	N	R	I	E	L	K	G
261	I	D	F	K	E	D	G	N	I	L	G	H	K	L	E	Y	N	G	T	D
281	Q	L	T	E	E	Q	I	A	E	F	K	E	A	F	S	L	F	D	K	D
301	G	D	G	T	I	T	T	K	E	L	G	T	V	M	R	S	L	G	Q	N
321	P	T	E	A	E	L	Q	D	M	I	N	E	V	D	A	D	G	N	G	T
341	I	Y	F	P	E	F	L	T	M	M	A	R	K	M	K	D	T	D	S	E
361	E	E	I	R	E	A	F	R	V	F	D	K	D	G	N	G	Y	I	S	A
381	A	Q	L	R	H	V	M	T	N	L	G	E	K	L	T	D	E	E	V	D
401	E	M	I	R	E	A	D	I	D	G	D	G	Q	V	N	Y	E	E	F	V
421	Q	M	M	T	A	K	-	E	F											

### Nucleotide Sequence for Inverse Pericam

001 AAG AGG CGC TGG AAG AAA AAC TTC ATT GCC GTC AGC GCT GCC AAC

016 CGG TTC AAG AAG ATC TCC AGC TCC GGG GCA CTG GGG TCT GCA GGC  
031 TAC AAC AGC ACC AAC GTC TAT ATC ATG GCC GAC AAG CAG AAG AAC  
046 GGC ATC AAG GCC AAC TTC AAG ATC CGC CAC AAC ATC GAG GAC GGC  
061 GGC GTG CAG CTC GCC GAC CAC TAC CAG CAG AAC ACC CCC ATC GGC  
076 GAC GGC CCC GTG CTG CTG CCC GAC AAC CAC TAC CTG AGC TTC CAG  
091 TCC GCC CTG AGC AAA GAC CCC AAC GAG AAG CGC GAT CAC ATG GTC  
106 CTG CTG GAG TTC GTG ACC GCC GCC GGG ATC ACT CTC GGC ATG GAC  
121 GAG CTG TAC AAG GTC GAC GGT GGC AGC GGT GGC ACC GGT GTG AGC  
136 AAG GGC GAG GAG CTG TTC ACC GGG GTG GTG CCC ATC CTG GTC GAG  
151 CTG GAC GGC GAC GTA AAC GGC CAC AAG TTC AGC GTG TCC GGC GAG  
166 GGC GAG GGC GAT GCC ACC TAC GGC AAG CTG ACC CTG AAG CTC ATC  
181 TGC ACC ACC GGC AAG CTG CCC GTG CCC TGG CCC ACC CTC GTG ACC  
196 ACC TTC GGC TAC GGC CTG AAG TGC TTC GCC CGC TAC CCC GAC CAC  
211 ATG AAG CAG CAC GAC TTC TTC AAG TCC GCC ATG CCC GAA GGC TAC  
226 GTC CAG GAG CGC ACC ATC TTC TTC AAG GAC GAC GGC AAC TAC AAG  
241 ACC CGC GCC GAG GTG AAG TTC GAG GGC GAC ACC CTG GTG AAC CGC  
256 ATC GAG CTG AAG GGC ATC GAC TTC AAG GAG GAC GGC AAC ATC CTG  
271 GGG CAC AAG CTG GAG TAC AAC GGT ACC GAC CAA CTG ACA GAA GAG  
286 CAG ATT GCA GAG TTC AAA GAA GCC TTC TCA TTA TTC GAC AAG GAT  
301 GGG GAC GGC ACC ATC ACC ACA AAG GAA CTT GGC ACC GTT ATG AGG  
316 TCG CTT GGA CAA AAC CCA ACG GAA GCA GAA TTG CAG GAT ATG ATC  
331 AAT GAA GTC GAT GCT GAT GGC AAT GGA ACG ATT TAC TTT CCT GAA  
346 TTT CTT ACT ATG ATG GCT AGA AAA ATG AAG GAC ACA GAC AGC GAA  
361 GAG GAA ATC CGA GAA GCA TTC CGT GTT TTT GAC AAG GAT GGG AAC  
376 GGC TAC ATC AGC GCT GCT CAG TTA CGT CAC GTC ATG ACA AAC CTC  
391 GGG GAG AAG TTA ACA GAT GAA GAA GTT GAT GAA ATG ATA AGG GAA  
406 GCA GAT ATC GAT GGT GAT GGC CAA GTA AAC TAT GAA GAG TTT GTA  
421 CAA ATG ATG ACA GCA AAG TAA GAA TTC

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