



.....CNGNTGTNANNC	CCNNGG.	CTCAACC	NNGN	NNNGN.	CATNN	CNA	ACTG	NNNN	CTN	GAGT	GCA	G	GAGAG	NNN	CNN	GAATTCC	NN	GT	85	
.....	CNA	ACTG	NNNN	CTN	GAGT	GCA	G	GAGAG	NNN	CNN	GAATTCC	NN	GT	46
.....GCGNN	CGG	NNNN	TNAG	CN	GNN	TN	AAAN	CCC	CN	GGC	CA	ACC	NN	CN	AN	NGG	105	
.....	99	
.....AGCGCG	CGT	ANG	NGG	TCGT	TNAG	TTG	GAT	GTG	AAAT	CCC	GGG	CT	CA	N	CCT	GGA	ACTG	111	
.....AGCGCG	CGT	ANG	TGG	TCGT	TNAG	TTG	GAT	GTG	AAAT	CCC	GGG	CT	CA	AC	CT	GGA	ACTG	111	
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.....	97		
.....AGCGCG	CGT	ANG	TGG	TCGT	TNAG	TTG	GAT	GTG	AAAT	CCC	GGG	CT	CA	AC	CT	GGA	ACTG	111	
.....AGCGCG	CGT	ANG	TGG	TCGT	TNAG	TTG	GAT	GTG	AAAT	CCC	GGG	CT	CA	AC	CT	GGA	ACTG	111	
.....	100		
.....	100		
.....	92		
.....GCGT	ANG	NGG	TCGT	TA	ANT	TG	GAT	GTG	AAAT	CCC	GGG	CT	CA	AC	CT	GGA	ACTG	106	
.....	95		
.....	106		
.....	106		
.....GNGT	NAGC	CGC	CGT	ANG	NGG	TNAG	TTG	GAT	GTG	AAAT	CCC	GGG	CT	CA	AC	CT	GGA	ACTG	116	
.....AGCG	CGCG	TNNNN	NNNNNNNNNN	NNNN	TA	GTG	AAAT	CCC	GGG	CT	CA	AC	CT	GGA	ACTG	114		
.....	87		
.....	92		
.....AGC	GTG	CGC	ANG	CGG	TTT	TG	TA	AG	CA	GGC	GTG	AAAT	CCC	GGG	CT	CA	AC	CT	111	
.....AGC	GTG	CGC	ANG	CGG	TTT	TG	TA	AG	CA	GGC	GTG	AAAT	CCC	GGG	CT	CA	AC	CT	111	
.....GCGT	AAGC	GTG	CGC	ANG	CGG	TTT	TG	TA	AG	CA	GGC	GTG	AAAT	CCC	GGG	CT	CA	AC	116	
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.....	104		
.....GTG	CGC	AG	CGG	TTT	TG	TN	AG	CA	GGC	GTG	AAAT	CCC	GGG	CT	CA	AC	CT	108		
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.....	108		
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.....	108		
.....	101		
.....GNGT	AAGC	GNG	CGC	AG	CGG	NG	TG	TA	AG	CA	GGC	GTG	AAAT	CCC	GGG	CT	CA	AC	116	
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.....	100		
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.....GGGCGT	AAGC	GNG	CGC	ANG	CGG	NG	AT	TA	AG	CA	GGC	GTG	AAAT	CCC	GGG	CT	CA	AC	118	
.....AGC	GTG	CGC	ANG	CGG	TG	TN	AG	CA	GGC	GTG	AAAT	CCC	GGG	CT	CA	AC	CT	111		
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.....GCGT	AAGC	GTG	CGC	ANG	CGG	TG	TN	AG	CA	GGC	GTG	AAAT	CCC	GGG	CT	CA	AC	115		
.....GGGNGT	TNNNN	GNG	CGC	AG	CGG	TG	TN	AG	CA	GGC	GTG	AAAT	CCC	GGG	CT	CA	AC	117		
.....	99		
.....GNG	CGC	ANG	CGG	TG	TN	AG	CA	GGC	GTG	AAAT	CCC	GGG	CT	CA	AC	CT	107		
.....GNG	CGC	ANG	CGG	TG	TN	AG	CA	GGC	GTG	AAAT	CCC	GGG	CT	CA	AC	CT	107		
.....GCGT	AAGC	GNG	CGC	ANG	CGG	TG	TN	AG	CA	GGC	GTG	AAAT	CCC	GGG	CT	CA	AC	115		
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.....AGC	GTG	CGC	AG	CGG	TG	TN	AG	CA	GGC	GTG	AAAT	CCC	GGG	CT	CA	AC	CT	109		
.....AANGN	GNNNN	TNG	G	TGG	TG	TT	TA	AG	CT	GT	TG	TG	AA	AN	CCC	NN	CA	AC	113	
.....AANGN	GNNNN	TNG	G	TGG	TG	TT	TA	AG	CT	GT	TG	TG	AA	AN	CCC	NN	CA	AC	114	
.....GCGT	AAGC	GNG	CGT	ANG	NGG	TG	TT	TA	AG	CT	GT	TG	TG	AA	AN	CCC	NN	CA	116	
.....GGGCGT	AAGC	GNG	CGT	ANG	NGG	TG	TT	TA	AG	CT	GT	TG	TG	AA	AN	CCC	NN	CA	118	
.....GGGCGT	AAGC	GNG	CGT	ANG	NGG	TG	TT	TA	AG	CT	GT	TG	TG	AA	AN	CCC	NN	CA	117	

GTAGCG	GTGAAATGCGTAGAGAT	NN	GGAGGAAN	ACC	AG	TGGCGAAGGC	GCCNN	CTGGN	CTGNN	ACTGACGCT	GAGGNG	CGAAAGCGTGGG	176
GTAGCG	GTGAAATGCGTAGAGAT	NN	GGAGGAAN	ACC	AG	TGGCGAAGGC	GCCNNT	CTGGN	CTGNN	ACTGACGCT	GAGGNG	CGAAAGCGTGGG	137
GTAGCG	GTGAAATGCGTAGAGAT	NN	GGAGGAAN	ACC	AG	TGGCGAAN	GCCNNT	CTGGN	CTGNN	ACTGACN	CTGAGGNG	CGAAAGCGTGGG	196
GTAGCG	GTGAAATGCGTA													117
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGAAGGC	GACCA	CCTGGA	CTGAT	ACTGACA	CTGA				186
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGAA									156
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGAA									156
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGA									141
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGAAGGC	GACCA	CCTGGA	CTGAT	ACTGACA	CTGAGG	GTG	CGAAAGCGTGGGGAGCAAACAGGATTA		217
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGAAGGC	GACCA	CCTGGA	CTGAT	ACTGACA	CTGAGG	GTG	CGAAAGCGTGGGGAGCAAACAGGATTA		217
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGAAGGC	GACCA	CCTGGA	CTGAT	ACTGACA	CTGAGG	GTG	CGAAAGCGTGGGGAGCAAACAGGATTA		206
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGAAGGC	GACCA	CCTGGA	CTGAT	ACTGACA	CTGAGG	GTG	CGAAAGCGTGGGGAGCAAACAGGATTA		206
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGAAGGC	GACCA	CCTGGA	CTGAT	ACTGACA	CTGAGG	GTG	CGAAAGCGTGGGGAGCAAACAGGATTA		198
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGAAGGC	GACCA	CCTGGA	CTGAT	ACTGACA	CTGAGG	GTG	CGAAAGCGTGGGGAGCAAACAGGATTA		212
GTAGCG	GTGAAATGCGTANATAT	AG	GAAGGAACACC	AG	TGGCGAAGGC	GACCN	CTGG	CTGAT	ACTGACA	CTG				169
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGAAGGC	GACCA	CCTGGA	CTGAT	ACTGACA	CTGAGG	GTG	CGAAAGCGTGGGGAGCAAACAGGATTA		212
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGAA									151
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGAAGGC	GACCA	CCTGGA	CTGAT	ACTGACA	CTGAGG	GTG	CGAAAGCGTGGGGAGCAAACAGGATTA		222
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGAAGGC	GACCA	CCTGGA	CTGAT	ACTGACA	CTGAGG	GTG	CGAAAGCGTGGGGAGCAAACAGGATTA		220
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGAAGGC	GACCA	CCTGGA	CTGAT	ACTGACA	CTGAGG	GTG	CGAAAGCGTGGGGAGCAAACAGGATTA		193
GTAGCG	GTGAAATGCGTAGATAT	AG	GAAGGAACACC	AG	TGGCGAAGGC	GACCA	CCTGGA	CTGAT	ACTGACA	CTGAGG	GTG	CGAAAGCGTGGGGAGCAAACAGGATTA		198
GTAGCAGT	GTGAAATGCGTAGAGAT	GT	GGAGGAAT	ACC	GATGGCGAAGGC	AGCC	CCTGG	GACGTG	ACTGACGCT	CATG	CA	CGAAAGCGTGGGGAGCAAACAGGATTA		217
GTAGCAGT	GTGAAATGCGTAGAGAT	GT	GGAGGAAT	ACC	GATGGCGAAGGC	AGCC	CCTGG	GACGTG	ACTGACGCT	CATG	CA	CGAAAGCGTGGGGAGCAAACAGGATTA		217
GTAGCAGT	GTGAAATGCGTAGAGAT	GT	GGAGGAAT	ACC	GATGGCGAAGGC	AGCC	CCTGG	GACGTG	ACTGACGCT	CATG	CA	CGAAAGCGTGGGGAGCAAACAGGA...		219
GTAGCAGT	GTGAAATGCGTAGAGAT	GT	GGAGGAAT	ACC	GATGGCGAAGGC	AGCC	CCTGG	GACGTG	ACTGACGCT	CATG	CA	CGAAAGCGTGGGGAGCAAACAGGATTA		222
GTAGCAGT	GTGAAATGCGTAGAGAT	GT	GGAGGAAT	ACC	GATGGCGAAGGC	AGCC	CCTGG	GACGTG	ACTGACGCT	CATG	CA	CGAAAGCGTGGGGAGCAAACAGGATTA		210
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 non conserved
 $\geq 50\%$ conserved