

	1	10	20	30	40	50
Identity						
DE177	CAGTTTTAGA	AATAAAATCC	CAGTTCCCAC	AAATTTCTTT	AGTTGTAGGG	
N16	CAGTTTTAGA	AATAAAATCC	TAGTTCCCAC	AAATTTCTTT	AGTTGTAGGG	
AR39	CAGTTTTAGA	AATAAAATCC	CAGTTCCCAC	AAATTTCTTT	AGTTGTAGGG	
CWL029	CAGTTTTAGA	AATAAAATCC	CAGTTCCCAC	AAATTTCTTT	AGTTGTAGGG	
TW183	CAGTTTTAGA	AATAAAATCC	CAGTTCCCAC	AAATTTCTTT	AGTTGTAGGG	
IOL207	CAGTTTTAGA	AATAAAATCC	CAGTTCCCAC	AAATTTCTTT	AGTTGTAGGG	
TOR1	CAGTTTTAGA	AATAAAATCC	CAGTTCCCAC	AAATTTCTTT	AGTTGTAGGG	
WA97001	CAGTTTTAGA	AATAAAATCC	CAGTTCCCAC	AAATTTCTTT	AGTTGTAGGG	
1979	CAGTTTTAGA	AATAAAATCC	CAGTTCCCAC	AAATTTCTTT	AGTTGTAGGG	
SH511	CAGTTTTAGA	AATAAAATCC	CAGTTCCCAC	AAATTTCTTT	AGTTGTAGGG	

	60	70	80	90	100	
Identity						
DE177	AATCTTGTTA	TAGCTGAAGC	CGCAGTTTCC	TTAGCTGAGA	TTGGAGTTGA	
N16	AATCTTGTTA	CAGCTGAAGC	CGCAGTTTCC	TTAGCTGAGA	TTGGAGTTGA	
AR39	AATCTTGTTA	CAGCTGAAGC	CGCAGTTTCC	TTAGCTGAGA	TTGGAGTTGA	
CWL029	AATCTTGTTA	CAGCTGAAGC	CGCAGTTTCC	TTAGCTGAGA	TTGGAGTTGA	
TW183	AATCTTGTTA	CAGCTGAAGC	CGCAGTTTCC	TTAGCTGAGA	TTGGAGTTGA	
IOL207	AATCTTGTTA	CAGCTGAAGC	CGCAGTTTCC	TTAGCTGAGA	TTGGAGTTGA	
TOR1	AATCTTGTTA	CAGCTGAAGC	CGCAGTTTCC	TTAGCTGAGA	TTGGAGTTGA	
WA97001	AATCTTGTTA	CAGCTGAAGC	CGCAGTTTCC	TTAGCTGAGA	TTGGAGTTGA	
1979	AATCTTGTTA	CAGCTGAAGC	TGCAGTCTCC	TTAGCTGAGA	TTGGAGTTGA	
SH511	AATCTTGTTA	CAGCTGAAGC	TGCAGTCTCC	TTAGCTGAGA	TTGGAGTTGA	

	110	120	130	140	150	
Identity						
DE177	CGCTGTAAAG	GTAGGTATTG	GCCCAGGATC	TATCTGTACA	ACTAGAATCG	
N16	CGCTGTAAAG	GTAGGTATTG	GCCCAGGATC	TATCTGTACA	ACTAGAATCG	
AR39	CGCTGTAAAG	GTAGGTATTG	GCCCAGGATC	TATCTGTACA	ACTAGAATCG	
CWL029	CGCTGTAAAG	GTAGGTATTG	GCCCAGGATC	TATCTGTACA	ACTAGAATCG	
TW183	CGCTGTAAAG	GTAGGTATTG	GCCCAGGATC	TATCTGTACA	ACTAGAATCG	
IOL207	CGCTGTAAAG	GTAGGTATTG	GCCCAGGATC	TATCTGTACA	ACTAGAATCG	
TOR1	CGCTGTAAAG	GTAGGTATTG	GCCCAGGATC	TATCTGTACA	ACTAGAATCG	
WA97001	CGCTGTAAAG	GTAGGTATTG	GCCCAGGATC	TATCTGTACA	ACTAGAATCG	
1979	CGCTGTAAAG	GTAGGTATTG	GCCCAGGATC	TATCTGTACA	ACTAGAATCG	
SH511	CGCTGTAAAG	GTAGGTATTG	GCCCAGGATC	TATCTGTACA	ACTAGAATCG	

	160	170	180	190	200	
Identity						
DE177	TTTCAGGGGT	CGGTTATCCA	CAAATTA CTG	CCATTACAAA	CGTAGCAAAA	
N16	TTTCAGGGGT	CGGTTATCCA	TAAATTA CTG	CCATTACAAA	CGTAGCAAAA	
AR39	TTTCAGGGGT	CGGTTATCCA	CAAATTA CTG	CCATTACAAA	CGTAGCAAAA	
CWL029	TTTCAGGGGT	CGGTTATCCA	CAAATTA CTG	CCATTACAAA	CGTAGCAAAA	
TW183	TTTCAGGGGT	CGGTTATCCA	CAAATTA CTG	CCATTACAAA	CGTAGCAAAA	
IOL207	TTTCAGGGGT	CGGTTATCCA	CAAATTA CTG	CCATTACAAA	CGTAGCAAAA	
TOR1	TTTCAGGGGT	CGGTTATCCA	CAAATTA CTG	CCATTACAAA	CGTAGCAAAA	
WA97001	TTTCAGGGGT	CGGTTATCCA	CAAATTA CTG	CCATTACAAA	CGTAGCAAAA	
1979	TTTCAGGGGT	CGGTTATCCA	CAAATTA CTG	CCATTACAAA	CGTAGCAAAA	
SH511	TTTCAGGGGT	CGGTTATCCA	CAAATTA CTG	CCATTACAAA	CGTAGCAAAA	

	210	220	230	240	250
Identity					
DE177	GCTCTTAAAA	ACTCTGCCGT	GACTGTAATT	GCTGATGGGG	GAATCCGCTA
N16	GCTCTTAAAA	ACTCTGCCGT	GACTGTAATT	GCTGATGGGG	GAATCCACTA
AR39	GCTCTTAAAA	ACTCTGCCGT	GACTGTAATT	GCTGATGGGA	GAATCCGCTA
CWL029	GCTCTTAAAA	ACTCTGCCGT	GACTGTAATT	GCTGATGGGA	GAATCCGCTA
TW183	GCTCTTAAAA	ACTCTGCCGT	GACTGTAATT	GCTGATGGGA	GAATCCGCTA
IOL207	GCTCTTAAAA	ACTCTGCCGT	GACTGTAATT	GCTGATGGGA	GAATCCGCTA
TOR1	GCTCTTAAAA	ACTCTGCCGT	GACTGTAATT	GCTGATGGGA	GAATCCGCTA
WA97001	GCTCTTAAAA	ACTCTGCCGT	GACTGTAATT	GCTGATGGGA	GAATCCGCTA
1979	GCTCTTAAAA	ACTCTGCCGT	GACTGTAATT	GCTGATGGGG	GAATCCGCTA
SH511	GCTCTTAAAA	ACTCTGCCGT	GACTGTAATT	GCTGATGGGG	GAATCCGCTA

	260	270	280	290	300
Identity					
DE177	TTCTGGAGAT	GTGGTAAAAG	CATTAGCAGC	AGGAGCAGAC	TGTGTCATGC
N16	TTCTGGAGAT	GTGGTAAAAG	CATTAGCAGC	AGGAGCAGAC	TGTGTCATGC
AR39	TTCTGGAGAT	GTGGTAAAAG	CATTAGCAGC	AGGAGCAGAC	TGTGTCATGC
CWL029	TTCTGGAGAT	GTGGTAAAAG	CATTAGCAGC	AGGAGCAGAC	TGTGTCATGC
TW183	TTCTGGAGAT	GTGGTAAAAG	CATTAGCAGC	AGGAGCAGAC	TGTGTCATGC
IOL207	TTCTGGAGAT	GTGGTAAAAG	CATTAGCAGC	AGGAGCAGAC	TGTGTCATGC
TOR1	TTCTGGAGAT	GTGGTAAAAG	CATTAGCAGC	AGGAGCAGAC	TGTGTCATGC
WA97001	TTCTGGAGAT	GTGGTAAAAG	CATTAGCAGC	AGGAGCAGAC	TGTGTCATGC
1979	TTCTGGAGAT	GTGGTAAAAG	CATTAGCAGC	AGGAGCAGAC	TGTGTCATGC
SH511	TTCTGGAGAT	GTGGTAAAAG	CATTAGCAGC	AGGAGCAGAC	TGTGTCATGC

	310	320	330	340	350
Identity					
DE177	TAGGAAGTTT	GCTTGCAGGG	ACTGATGAAG	CTCCTGGGGA	TATCGTTTCT
N16	TAGGAAGTTT	GCTTGCAGGG	ACTGATGAAG	CTCCTGGGGA	TATCGTTTCT
AR39	TAGGAAGTTT	GCTTGCAGGG	ACTGATGAAG	CTCCTGGGGA	TATCGTTTCT
CWL029	TAGGAAGTTT	GCTTGCAGGG	ACTGATGAAG	CTCCTGGGGA	TATCGTTTCT
TW183	TAGGAAGTTT	GCTTGCAGGG	ACTGATGAAG	CTCCTGGGGA	TATCGTTTCT
IOL207	TAGGAAGTTT	GCTTGCAGGG	ACTGATGAAG	CTCCTGGGGA	TATCGTTTCT
TOR1	TAGGAAGTTT	GCTTGCAGGG	ACTGATGAAG	CTCCTGGGGA	TATCGTTTCT
WA97001	TAGGAAGTTT	GCTTGCAGGG	ACTGATGAAG	CTCCTGGGGA	TATCGTTTCT
1979	TAGGAAGTTT	GCTTGCAGGG	ACTGCTGAAG	CTCCTGGGGA	TATCGTTTCT
SH511	TAGGAAGTTT	GCTTGCAGGG	ACTGCTGAAG	CTCCTGGGGA	TATCGTTTCT

	360	370	380	390	400
Identity					
DE177	ATCGATGAGA	AGCTTTTTTAA	AAGGTACCGC	GGCATGGGAT	CTTTAGGCGC
N16	ATCGATGAGA	AGCTTTTTTAA	AAGGTACCGC	GGCATGGGAT	CTTTAGGCGC
AR39	ATCGATGAGA	AGCTTTTTTAA	AAGGTACCGC	GGCATGGGAT	CTTTAGGCGC
CWL029	ATCGATGAGA	AGCTTTTTTAA	AAGGTACCGC	GGCATGGGAT	CTTTAGGCGC
TW183	ATCGATGAGA	AGCTTTTTTAA	AAGGTACCGC	GGCATGGGAT	CTTTAGGCGC
IOL207	ATCGATGAGA	AGCTTTTTTAA	AAGGTACCGC	GGCATGGGAT	CTTTAGGCGC
TOR1	ATCGATGAGA	AGCTTTTTTAA	AAGGTACCGC	GGCATGGGAT	CTTTAGGCGC
WA97001	ATCGATGAGA	AGCTTTTTTAA	AAGGTACCGC	GGCATGGGAT	CTTTAGGCGC
1979	ATCGATGAGA	GGCTTTTTTAA	AAGGTACCGC	GGCATGGGAT	CTTTAGGCGC
SH511	ATCGATGAGA	GGCTTTTTTAA	AAGGTACCGC	GGCATGGGAT	CTTTAGGCGC

	410	420	430	440	450
Identity					
DE177	TATGAAACAA	GGAAGTGCTG	ACCGGTATTT	TCAAACACAG	GGACAGAAAA
N16	TATGAAACAA	GGAAGTGCTG	ACCGGTATTT	TCAAACACAG	GGACAGAAAA
AR39	TATGAAACAA	GGAAGTGCTG	ACCGGTATTT	TCAAACACAG	GGACAGAAAA
CWL029	TATGAAACAA	GGAAGTGCTG	ACCGGTATTT	TCAAACACAG	GGACAGAAAA
TW183	TATGAAACAA	GGAAGTGCTG	ACCGGTATTT	TCAAACACAG	GGACAGAAAA
IOL207	TATGAAACAA	GGAAGTGCTG	ACCGGTATTT	TCAAACACAG	GGACAGAAAA
TOR1	TATGAAACAA	GGAAGTGCTG	ACCGGTATTT	TCAAACACAG	GGACAGAAAA
WA97001	TATGAAACAA	GGAAGTGCTG	ACCGGTATTT	TCAAACACAG	GGACAGAAAA
1979	TATGAAACAA	GGAAGTGCTG	ACCGGTATTT	TCAAACACAG	GGACAGAAAA
SH511	TATGAAACAA	GGAAGTGCTG	ACCGGTATTT	TCAAACACAG	GGACAGAAAA

	460	470	480	490	500
Identity					
DE177	AGCTGGTTCC	TGAGGGAGTT	GAAGGACTAG	TCGCTTATAA	AGGCTCTGTC
N16	AGCTGGTTCC	TGAGGGAGTT	GAAGGACTAG	TCAGCTTATAA	AGGCTCTGTC
AR39	AGCTGGTTCC	TGGGGGAGTT	GAAGGACTAG	TCGCTTATAA	AGGCTCTGTC
CWL029	AGCTGGTTCC	TGGGGGAGTT	GAAGGACTAG	TCGCTTATAA	AGGCTCTGTC
TW183	AGCTGGTTCC	TGGGGGAGTT	GAAGGACTAG	TCGCTTATAA	AGGCTCTGTC
IOL207	AGCTGGTTCC	TGGGGGAGTT	GAAGGACTAG	TCGCTTATAA	AGGCTCTGTC
TOR1	AGCTGGTTCC	TGGGGGAGTT	GAAGGACTAG	TCGCTTATAA	AGGCTCTGTC
WA97001	AGCTGGTTCC	TGGGGGAGTT	GAAGGACTAG	TCGCTTATAA	AGGCTCTGTC
1979	AGCTGGTTCC	TGAGGGAGTT	GAAGGACTAG	TCGCTTATAA	AGGCTCTGTC
SH511	AGCTGGTTCC	TGAGGGAGTT	GAAGGACTAG	TCGCTTATAA	AGGCTCTGTC

	510	520	530	540	550
Identity					
DE177	CACGATGTCC	TCTATCAAAT	TTTAGGAGGA	ATACGCTCAG	GTATGGGGTA
N16	CACGATGTCC	TCTATCAAAT	TTTAGGAGGA	ATACGCTCAG	GTATGGGGTA
AR39	CACGATGTCC	TCTATCAAAT	TTTAGGAGGA	ATACGCTCAG	GTATGGGGTA
CWL029	CACGATGTCC	TCTATCAAAT	TTTAGGAGGA	ATACGCTCAG	GTATGGGGTA
TW183	CACGATGTCC	TCTATCAAAT	TTTAGGAGGA	ATACGCTCAG	GTATGGGGTA
IOL207	CACGATGTCC	TCTATCAAAT	TTTAGGAGGA	ATACGCTCAG	GTATGGGGTA
TOR1	CACGATGTCC	TCTATCAAAT	TTTAGGAGGA	ATACGCTCAG	GTATGGGGTA
WA97001	CACGATGTCC	TCTATCAAAT	TTTAGGAGGA	ATACGCTCAG	GTATGGGGTA
1979	CACGATGTCC	TCTATCAAAT	TTTAGGAGGA	ATACGCTCAG	GTATGGGGTA
SH511	CACGATGTCC	TCTATCAAAT	TTTAGGAGGA	ATACGCTCAG	GTATGGGGTA

	560	570	580	590	
Identity					
DE177	TGTTGGAGCT	GAAACTCTCA	AAGATTTAAA	AACTAAGGCT	TCCTTTGTTC
N16	TGTTGGAGCT	GAAACTCTCA	AAGATTTAAA	AACTAAGGCT	TCCTTTGTTC
AR39	TGTTGGAGCT	GAAACTCTCA	AAGATTTAAA	AACTAAGGCT	TCCTTTGTTC
CWL029	TGTTGGAGCT	GAAACTCTCA	AAGATTTAAA	AACTAAGGCT	TCCTTTGTTC
TW183	TGTTGGAGCT	GAAACTCTCA	AAGATTTAAA	AACTAAGGCT	TCCTTTGTTC
IOL207	TGTTGGAGCT	GAAACTCTCA	AAGATTTAAA	AACTAAGGCT	TCCTTTGTTC
TOR1	TGTTGGAGCT	GAAACTCTCA	AAGATTTAAA	AACTAAGGCT	TCCTTTGTTC
WA97001	TGTTGGAGCT	GAAACTCTCA	AAGATTTAAA	AACTAAGGCT	TCCTTTGTTC
1979	TGTTGGAGCT	GAAACTCTCA	AAGATTTAAA	AACTAAGGCT	TCCTTTGTTC
SH511	TGTTGGAGCT	GAAACTCTCA	AAGATTTAAA	AACTAAGGCT	TCCTTTGTTC

	606
Identity	
DE177	GAATTA
N16	GAATTA
AR39	GAATTA
CWL029	GAATTA
TW183	GAATTA
IOL207	GAATTA
TOR1	GAATTA
WA97001	GAATTA
1979	GAATTA
SH511	GAATTA

