

Supplementary Figure 2

MSP6

	10	20	30	40	50	60	70	80
PF10_0346_3D7	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|
PF10_0346_K1_AY518890	ATGAATAAGA	TTTATAATAT	TACTTTTCTT	TTCATTCTTT	TAAACTTATA	TATAAATGAA	AATAACTTTA	TCAGAAATGA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
7G8
HB3
<i>P.reichenowi</i>

	90	100	110	120	130	140	150	160
PF10_0346_3D7	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|
PF10_0346_K1_AY518890	ACTTATAAAC	GAAAAAACC	ATAATTTAAG	AAATGGTTC	ATGTATAATA	ACGATAAAAT	ATTAAGTAAA	AATGAAGTAG
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
7G8
HB3
<i>P.reichenowi</i>

	170	180	190	200	210	220	230	240
PF10_0346_3D7	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|
PF10_0346_K1_AY518890	ATACTAATAT	AGAAAGTAAC	GAAAATAGTA	TTCACGAATC	TGGACATAAG	ATTGATGGGG	AAGAAGTTTT	AAAAGCTAAT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
7G8
HB3
<i>P.reichenowi</i>

	250	260	270	280	290	300	310	320
PF10_0346_3D7	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|	.....|.....|
PF10_0346_K1_AY518890	CAAGAACAAG	CTAAT.....	A.....	TGATATAACA	TACAAAAAAA	AAAATGTTGA	TGATTCAGAA	ATTCCTTTT
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....	.....	.....	.....	.....	.....	.....	.....
Palo Alto	CAAGAACAAG	CTAAT.....	A.....	TGATATAACA	TACAAAAAAA	AAAATGTTGA	TGATTCAGAA	ATTCCTTTT
FCR3	.....	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....	.....	.....	.....	.....
D6	CAAGAACAAG	CTAAT.....	A.....	TGATATAACA	TACAAAAAAA	AAAATGTTGA	TGATTCAGAA	ATTCCTTTT
T996	.....	.....	.....	.....	.....	.....	.....	.....
T9102	.....	.....	.....	.....	.....	.....	.....	.....
K1	CAAGAACAAG	CTAAT.....	A.....	TGATATAACA	TACAAAAAAA	AAAATGTTGA	TGATTCAGAA	ATTCCTTTT
Dd2	CAAGAACAAG	CTAAT.....	A.....	TGATATAACA	TACAAAAAAA	AAAATGTTGA	TGATTCAGAA	ATTCCTTTT
D10	.....	.....	.....	.....	.....	.....	.....	.....
FCC2	.....	.....	.....	.....	.....	.....	.....	.....
7G8	.....	.....	.....	.....	.....	.....	.....	.....
HB3	.....	.....	.....	.....	.....	.....	.....	.....
<i>P.reichenowi</i>	CAAGAACAAC	CTAAT.....	A.....	TGATATAACA	TACAAAAAAA	AAAATGTTGA	TGATTCAGAA	ATTCCTTTT

	330	340	350	360	370	380	390	400
PF10_0346_3D7	.....|.....|.....|.....|.....|.....|.....|.....|.....|	TATACAAGCA	ACATATCAAT	TTCCTTCTAC	ATCA-----	-----GG	AGGAAATAAT	GTAATTCCAC
PF10_0346_K1_AY518890	.....G...|.....|.....|.....|.....|.....|.....|.....|.....|	.....G...	.....C...	.C..GGAAGA	ATTATAAATC	CTCGTACT..	.....C.	.....
3D7	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
RO33	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
Palo Alto	.....G...|.....|.....|.....|.....|.....|.....|.....|.....|	.....G...	.....C...	.C..GGAAGA	ATTATAAATC	CTCGTACT..	.....C.	.....
FCR3	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
D6	.....G...|.....|.....|.....|.....|.....|.....|.....|.....|	.....G...	.....C...	.C..GGAAGA	ATTATAAATC	CTCGTACT..	.....C.	.....A..
T996	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
T9102	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
K1	.....G...|.....|.....|.....|.....|.....|.....|.....|.....|	.....G...	.....C...	.C..GGAAGA	ATTATAAATC	CTCGTACT..	.....C.	.....
Dd2	.....G...|.....|.....|.....|.....|.....|.....|.....|.....|	.....G...	.....C...	.C..GGAAGA	ATTATAAATC	CTCGTACT..	.....C.	.....
D10	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
FCC2	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
7G8	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
HB3	.....G...|.....|.....|.....|.....|.....|.....|.....|.....|	.....G...	.....C...	.C..GGAAGA	ATTATAAATC	CTCGTACT..	.....C.	.....
<i>P.reichenowi</i>	.....G.G...|.....|.....|.....|.....|.....|.....|.....|.....|	.....G.G	.....CG..A	.C..GGAAGA	ATTACAAATC	CTCGTACT..	.....C.	.....A..

	410	420	430	440	450	460	470	480
PF10_0346_3D7	.....|.....|.....|.....|.....|.....|.....|.....|.....|	TTCTATAAAA	ACAAAAGT---	-----	-----	-----	-----	-----
PF10_0346_K1_AY518890	C.....G..G	..T...GGA	CTAGAAGGTG	TTTCTTATCC	ACATGTATTT	ACATCTTCTA	ATCAATCACA	TCCTCAAAGA
3D7	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
RO33	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
Palo Alto	C.....G..G	..T...GGA	CTAGAAGGTG	TTTCTTATCC	ACATGTATTT	ACATCTTCTA	ATCAATCACA	TCCTCAAAGA
FCR3	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
D6	C.....G..G	..T...GGA	CTAGAAGGTG	TTTCTTATCC	ACATGTATTT	ACATCTTCTA	ATCAATCACA	TCCTCAAAGA
T996	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
T9102	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
K1	C.....G..G	..T...GGA	CTAGAAGGTG	TTTCTTATCC	ACATGTATTT	ACATCTTCTA	ATCAATCACA	TCCTCAAAGA
Dd2	C.....G..G	..T...GGA	CTAGAAGGTG	TTTCTTATCC	ACATGTATTT	ACATCTTCTA	ATCAATCACA	TCCTCAAAGA
D10	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
FCC2	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
7G8	.C.....|.....|.....|.....|.....|.....|.....|.....|.....|	.C.....	.....	.....	.....	.....	.....	.....
HB3	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
<i>P.reichenowi</i>	C.....GT.G	..T...GGA	CTAGAAGGTG	TTTCTTATCC	ATTGTATAT	ACATCTTCTA	ATCAACCACG	TCCTCAAAGA

	490	500	510	520	530	540	550	560
PF10_0346_3D7	.....|.....|.....|.....|.....|.....|.....|.....|.....|	-----	-----	-----	-----	-----	-----GGAG	AAAATCAATA
PF10_0346_K1_AY518890	GCCAACATCG	GAGGAATATC	CCATTTATCA	GGGACACGTG	GAATTCATAC	TTATTCAGGT	GAAAGT....	.....CC.
3D7	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
RO33	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
Palo Alto	GCCAACATCG	GAGGAATATC	CCATTTATCA	GGGACACGTG	GAATTCATAC	TTATTCAGGT	GAAAGT....	.....CC.
FCR3	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
D6	GCCAACATCG	GAGGAATATC	CCATTTATCA	GGGACACGTG	GAATTCATAC	TTATTCAGGT	GAAAGT....	.....CC.
T996	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
T9102	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
K1	GCCAACATCG	GAGGAATATC	CCATTTATCA	GGGACACGTG	GAATTCATAC	TTATTCAGGT	GAAAGT....	.....CC.
Dd2	GCCAACATCG	GAGGAATATC	CCATTTATCA	GGGACACGTG	GAATTCATAC	TTATTCAGGT	GAAAGT....	.....CC.
D10	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
FCC2	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
7G8	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
HB3	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....
<i>P.reichenowi</i>	GCCAACATCG	GAGGCATATC	CCATTTATCA	GGGATACGTG	GAATTCATAC	TTATTCAGGT	GAAAGT....	.....C.

	570	580	590	600	610	620	630	640	
PF10_0346_3D7	.....|.....|.....|.....|.....|.....|.....|.....|.....|	TACTGTTACA	TCTATATCAG	GTATTCAAAA	GGGAGCAAAT	GGTTAACTG	GTGCAACAGA	AAATATTACA	CAAGTTGTAC
PF10_0346_K1_AY518890	..T.....	A.C.G.C..A	A..C.....	CC.....A	.....	.....	.....	..A.....	.C.G..C.G
3D7	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....	.....
Palo Alto	..T.....	A.C.G.C..A	A..C.....	CC.....A	.....	.....	.....	..A.....	.C.G..C.G
FCR3	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....	.....
D6	..T.....	A.C.G.C..A	A..C.....	CC.....A	.....	.....	.....	..A.....	.C.G..C.G
T996	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....	.....
T9102	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....	.....
K1	..T.....	A.C.G.C..A	A..C.....	CC.....A	.....	.....	.....	..A.....	.C.G..C.G
Dd2	..T.....	A.C.G.C..A	A..C.....	CC.....A	.....	.....	.....	..A.....	.C.G..C.G
D10	.....G...|.....|.....|.....|.....|.....|.....|.....|.....|	.....G...	.....	.....	.....	.....	.....	.....	.....
FCC2	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....	.....
7G8	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....	.....
HB3	.....|.....|.....|.....|.....|.....|.....|.....|.....|	.....	.....	.....	.....	.....	.....	.....	.....
<i>P.reichenowi</i>	..T.....	.C.G..A	A..C.....	C.....	.A.....	.....	..A.....	.C.G..A..	.....G..A..

	650	660	670	680	690	700	710	720
PF10_0346_3D7	AAGCAAATC	TGAAACAAAT	AAAAATCCTA	CTTCTCATAG	TAATAGTACT	ACAACTTCTC	TGAATAATAA	TATACTTGGA
PF10_0346_K1_AY518890	.A.....	.....	.....	.C.GG...	.A.....	.....	.....	.....
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....	.....	.....	.....	.....	.....	.....	.....
Palo Alto	.A.....	.....	.....	.C.GG...	.A.....	.....	.....	.....
FCR3	.....	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....	.....	.....	.....	.....
D6	.A.....	.....	.....	.C.GG...	.A.....	.....	.....	.....
T996	.....	.....	.....	.....	.....	.....	.....	.....
T9102	.....	.....	.....	.....	.....	.....	.....	.....
K1	.A.....	.....	.....	.C.GG...	.A.....	.....	.....	.....
Dd2	.A.....	.....	.....	.C.GG...	.A.....	.....	.....	.....
D10	.....	.....	.....	.....	.....	.....	.....	.....
FCC2	.....	.....	.....	.....	.....	.....	.....	.....
7G8	.....	.....	.....	.....	.....	.....	.....	.....
HB3	.....	.....	.....	.....	.....	.....	.....	.....
<i>P.reichenowi</i>	.G.....	.G.....	.....	.GG...	.....	.....	.....	.C.....

	730	740	750	760	770	780	790	800
PF10_0346_3D7	TGGGAATTG	GAGGAGGTGC	TCCTCAAAAT	GGAGCTGCAG	AAGATAAAAA	GACAGAATAT	TTACTAGAAC	AAATAAAAAAT
PF10_0346_K1_AY518890
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
7G8
HB3
<i>P.reichenowi</i>A.TC..	.....	.....

	810	820	830	840	850	860	870	880
PF10_0346_3D7	TCCATCATGG	GATAGAAATA	ACATCCCCGA	TGAGAATGAA	CAAGTAATAG	AGGACCCCTCA	AGAAGATAAT	AAAGATGAAG
PF10_0346_K1_AY518890A.....	.....	.....	.....
3D7
RO33
Palo AltoA.....	.....	.....	.....
FCR3
Wellcome
D6A.....	.....	.....	.....
T996
T9102A.....	.....	.....	.....
K1A.....	.....	.....	.....
Dd2A.....	.....	.....	.....
D10
FCC2A.....	.....	.....	.....
7G8A.....	.....	.....	.....
HB3A.....	.....	.....	.....
<i>P.reichenowi</i>G.....	.....	.....	.....	.....	.....	.A.....C.....

	890	900	910	920	930	940	950	960
PF10_0346_3D7	ATGAAGATGA	A-----GAA	ACAGAAACAG	AAAATTTGGA	AACAGAAGAT	GATAATAATG	AAGAGATAGA	AGAAAATGAA
PF10_0346_K1_AY518890
3D7
RO33
Palo AltoGATGAA..	.....	.....	.....	.....	.....	.....
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
7G8
HB3
<i>P.reichenowi</i>	.G.....AAC	-----	.....	.....	.T.....G	.....	.....	.....

	970	980	990	1000	1010	1020	1030	1040
PF10_0346_3D7	GAAGATGACA	TAGATGAAGA	AAGTGTAGAA	GAAAAGGAAG	AAGAGGAAGA	AAAAAAGGAA	GAAGAAGAAA	AAAAGGAAGA
PF10_0346_K1_AY518890
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
7G8
HB3
<i>P.reichenowi</i>	.....T.....	.....T.....	.....C.....	.....T.....	.....CAT.....	.....TG.T.....	.....AGT.T.....	.....G.....

	1050	1060	1070	1080	1090	1100	1110	1120
PF10_0346_3D7	AAAAAAGAA	GAAAAAACC	CAGACAATGA	AATTACAAAT	GAAGTTAAAG	AGGAACAAAA	ATATAGTTCA	CCAAGTGATA
PF10_0346_K1_AY518890
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
7G8
HB3
<i>P.reichenowi</i>	.....C.....	.....C- --.A..A.....	.....	.....	.....G.....	.....	.....GA..A.....	.....

	1130	1140	1150	1160	1170	1180	1190	1200
PF10_0346_3D7	TAAATGCCCA	AAATTTAATT	TCTAATAAGA	ATAAAAAGAA	TGATGAAACA	AAAAAGACTG	CTGAAAATAT	AGTTAAAACA
PF10_0346_K1_AY518890
3D7
RO33T.....	.....	.....	.....	.....
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
7G8
HB3
<i>P.reichenowi</i>C.....	.....	.....	.....	.....	.....

	1210	1220	1230	1240	1250	1260	1270	1280
PF10_0346_3D7	TTGTTGGAT	TATTTAATGA	AAAAAATGAG	ATAGATTCTA	CTATAAATAA	TTTAGTACAA	GAAATGATCC	ATCTATTAG
PF10_0346_K1_AY518890
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
7G8
HB3
<i>P.reichenowi</i>C.G.....	.....C.....	.....	.....	.....	.....	.....

	250	260	270	280	290	300	310	320
PF10_0347	ACTGGGGTTG	AAAGTGTA	AGCTATTGAT	GGGGAAAGTG	GTACTTCAAT	GGATTCTAAA	CCTAAAGAGA	ATAAAATTAG
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3	C.....	.....	.....	.....
7G8	C.....	.....	.....	.....
<i>P.reichenowi</i>	.....C.....	.....C.....	.....	.....A.....	.....	.....	.....G.....	.....A.....

	330	340	350	360	370	380	390	400
PF10_0347	TACTGAACCA	GGAGCAGACC	AGGTGTCTAT	TGGATTGGTC	AACGAATCTG	ATAGTAGTTT	AGAAAATGAT	AAAAAAAAAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>T.G.....	.....A.....	.....A.....	.....	.....	.....	.....GG.....

	410	420	430	440	450	460	470	480
PF10_0347	AAGAAAACGT	AAAAAAGAA	ATGCTTGGTA	CTGAAAAGGA	AGGTTCTCCA	GATAGTCATG	ATAGTTCTAA	GGAAAAATTA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>T.....	.....	.....	.....	.....

	490	500	510	520	530	540	550	560
PF10_0347	AATCTTAACG	ACAATTCCAA	ATGGTCTGAT	TTTCTTAAAA	ATATCGTAAC	GTTTGGTGGT	TTTGGTCCTA	CTGTGGTTCA
3D7
RO33
Palo Alto
FCR3G.....	.....	.....	.....
WellcomeG.....	.....	.....	.....
D6
T996
T9102
K1
Dd2
D10G.....	.....	.....	.....
FCC2
HB3
7G8
<i>P.reichenowi</i>T.....	.....	.....	.....T.....	.....	.....T.....	.....

	250	260	270	280	290	300	310	320
PF10_0348	GTGGACAAG	ATGTGCCTAT	TACATCGGTA	TATTCTTCTA	AAATTATAAA	TGCTAATGAT	TTAGAAGGAA	ATAGTATTGA
3D7
RO33	G.....	.....	.....	.....	.....
Palo Alto	G.....	.....	.....	.....	.....
FCR3	G.....	.....	.....	.....	.....
Wellcome	G.....	.....	.....	.....	.....
D6	G.....	.....	.....	.....	.....
T996	G.....	.....	.....	.....	.....
T9102	G.....	.....	.....	.....	.....
K1	G.....	.....	.....	.....	.....
Dd2	G.....	.....	.....	.....	.....
D10	G.....	.....	.....	.....	.....
FCC2	G.....	.....	.....	.....	.....
HB3	G.....	.....	.....	.....	.....
7G8	G.....	.....	.....	.....	.....
<i>P.reichenowi</i>C.....	.....GC.....	.....	.....	.....C.....	.....	.....

	330	340	350	360	370	380	390	400
PF10_0348	CGATACTAAA	GGTCTTAGTG	TTACTAATAG	TGGATTGATG	GATGGTAGTG	CTTTTGGTGG	TGGACTCCCT	TTTCTGGTT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	TA.....	.....	.....	.....	.....	.....	.....	.....G.....

	410	420	430	440	450	460	470	480
PF10_0348	ATTCTCTCT	ACAAGGAAAT	CATAATAAAT	GTCCTGATGA	AAATTTTGT	AAGGGTATTA	AAAATGTCTT	ATCCTGTCCT
3D7
RO33C.....	.....
Palo AltoA.....	.....	.....T.....C.....	.....GCC TAAT.....	.....
FCR3
Wellcome
D6A.....	.....	.....T.....C.....	.....GCC TAAT.....	.....
T996
T9102C.....	.....
K1C.....	.....
Dd2C.....	.....
D10C.....	.....
FCC2
HB3A.....	.....	.....T.....C.....	.....GCC TAAT.....	.....
7G8A.....	.....	.....T.....C.....	.....GCC TAAT.....	.....
<i>P.reichenowi</i>AG.....	.....	.....G.....	.....C.....	.....T.....

	490	500	510	520	530	540	550	560
PF10_0348	CCAAAAAATT	CTACTGGTAG	AAATGGGGAT	TGGATTAGTG	TGGCTGTAA	AGAAAGTTCA	ACTACAAATA	AAGGTGTTCT
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....	.....	.....	.....	.....A.....	.....	.....	.....
Palo Alto	.....T.....	.....TC.....C.....	.....A.....T.....	.....GC.....CT	.....CAAA.....C.G.....	.....A.TTTC.T.....	.....AGTT.....	.....C.....
FCR3	.....	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....	.....	.....	.....	.....
D6	.....T.....	.....TC.....C.....	.....A.....T.....	.....GC.....CT	.....CAAA.....C.G.....	.....A.TTTC.T.....	.....AGTT.....	.....C.....
T996	.....	.....	.....	.....	.....	.....	.....	.....
T9102	.....	.....	.....	.....	.....	.....	.....	.....
K1	.....	.....	.....	.....	.....	.....	.....	.....
Dd2	.....	.....	.....	.....	.....	.....	.....	.....
D10	.....	.....	.....	.....	.....	.....	.....	.....
FCC2	.....	.....	.....	.....GC.....CT	.....CAAA.....C.G.....	.....A.TTTC.T.....	.....AGTT.....	.....C.....
HB3	.....T.....G.....	.....TC.....C.....	.....A.....T.....	.....GC.....CT	.....CAAA.....C.G.....	.....A.TTTC.T.....	.....AGTT.....	.....C.....
7G8	.....T.....G.....	.....TC.....C.....	.....A.....T.....	.....GC.....CT	.....CAAA.....C.G.....	.....A.TTTC.T.....	.....AGTT.....	.....C.....
<i>P.reichenowi</i>	GA.....C.....	.....T.....	.....	.....	.....A.....	.....	.....	.....

	570	580	590	600	610	620	630	640
PF10_0348	TGTTCCCCCC	AGAAGAACAA	AATTATGTCT	AAGA--AAT	ATTAACAAGG	TTGGCATCG	AATCAAAGAC	GAGAAAAATT
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....	.....	.....	.....	.....	.....	.....	.....
Palo Alto	.....A	.....A.C	..A.G...T	T...ATT...	..A....TT	..CCTG.ATT	..AA...ACT	..AGGT..A.
FCR3	.....	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....	.....	.....	.....	.....
D6	.....A	.....A.C	..A.G...T	T...ATT...	..A....TT	..CCTG.ATT	..AA...ACT	..AGGT..A.
T996	.....	.....A.	.....	.....	.....C..	.....	.....	.....
T9102	.....	.....A.	.....	.....	.....C..	.....	.....	.....
K1	.....	.....	.....	.....	.....	.....	.....	.....
Dd2	.....	.....	.....	.....	.....	.....	.....	.....
D10	.....	.....	.....	.....	.....	.....	.....	.....
FCC2	.....A	.....A.C	..A.G...T	T...ATT...	..A....TT	..CCTG.ATT	..AA...ACT	..AGGT..A.
HB3	.....A	.....A.C	..A.G...T	T...ATT...	..A....TT	..CCTA.ATT	..AA...ACT	..AGGT..A.
7G8	.....A	.....A.C	..A.G...T	T...ATT...	..A....TT	..CCTA.ATT	..AA...ACT	..AGGT..A.
<i>P.reichenowi</i>	.....A	.....G.	.....	---	..C.C.TA	.....T	.....T.C.	.....

	650	660	670	680	690	700	710	720
PF10_0348	TTAAAGAAGA	ATTTGTTAAA	GTTGCTTTAG	GAGAATCAAA	TGCTTTAATG	AAACATTATA	AAGAAAAAAA	TCTGAATGCC
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....	.....	.....	.....	.....	.....	.....	.....
Palo Alto	..G..A.TTT	CA..TACTC.	TC...AGGTT	CT...G.T..	ACAA.....A	..TTA...G	GTA.T..C.C	AGAA..A..A
FCR3	.....	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....	.....	.....	.....	.....
D6	..G..A.TTT	CA..TACTC.	TC...AGGTT	CT...G.T..	ACAA.....A	..TTA...G	GTA.T..C.C	AGAA..A..A
T996	.....	.....	.....	.....	.....	.....	.....	.....
T9102	.....	.....	.....	.....	.....	.....	.....	.....
K1	.....	.....	.....	.....	.....	.....	.....	.....
Dd2	.....	.....	.....	.....	.....	.....	.....	.....
D10	.....	.....	.....	.....	.....	.....	.....	.....
FCC2	..G..A.TTT	CA..TACTC.	TC...AGGTT	CT...G.T..	ACAA.....A	..TTA...G	GTA.T..C.C	AGAA..A..A
HB3	..G..A.TTT	CA..TACTC.	TC...AGGTT	CT...G.T..	ACAA.....A	..TTA...G	GTA.T..C.C	AGAA..A..A
7G8	..G..A.TTT	CA..TACTC.	TC...AGGTT	CT...G.T..	ACAA.....A	..TTA...G	GTA.T..C.C	AGAA..A..A
<i>P.reichenowi</i>	.....A	.....T	.....A	.....	.....A	.....T	.....	.....A..C.A

	730	740	750	760	770	780	790	800
PF10_0348	CTTACAGCTA	TAAAAATATGG	ATTTTCAGAT	ATGGGAGATA	TAATAAAGGG	AACAGACCTA	ATTGACTATC	AAATTACTAA
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....	.....	.....	.....	.....	.....	.....	.....
Palo Alto	..CA...A	.G.....	T...G.C...	..T...A...	.TG.CC.A..	..AT...A.G	..A..TACA.	C..C.T...
FCR3	.....	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....	.....	.....	.....	.....
D6	..CA...A	.G.....	T...G.C...	..T...A...	.TG.CC.A..	..AT...A.G	..A..TACA.	C..C.T...
T996	.....	.....	.....	.....	.....	.....	.....	.....
T9102	.....	.....	.....	.....	.....	.....	.....	.....
K1	.....	.....	.....	.....	.....	.....	.....	.....
Dd2	.....	.....	.....	.....	.....	.....	.....	.....
D10	.....	.....	.....	.....	.....	.....	.....	.....
FCC2	..CA...A	.G.....	T...G.C...	..T...A...	.TG.CC.A..	..AT...A.G	..A..TACA.	C..C.T...
HB3	..CA...A	.G.....	T...G.C...	..T...A...	.TG.CC.A..	..AT...A.G	..A..TACA.	C..C.T...
7G8	..CA...A	.G.....	T...G.C...	..T...A...	.TG.CC.A..	..AT...A.G	..A..TACA.	C..C.T...
<i>P.reichenowi</i>	.....	.....	.....	.....	.....	.....T	.....	.....

	810	820	830	840	850	860	870	880
PF10_0348	AAATATAAAT	AGGGCATTAG	ATAAAATATT	ACGTAATGAA	ACAAGTAAT-	--GACAAAAT	TAAAAAACGT	GTAGACTGGT
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....	.....	.....	.....G	.....	.....	.....	.....
Palo Alto	T..A.C...A	.CATAT..G.	.AG..G..C.	CG.A..AC.	TAT.AA...G	TTA.TG.TCC	A...G.TGC.	AA.AC....
FCR3	.....	.....	.....	.....G	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....G	.....	.....	.....	.....
D6	T..A.C...A	.CATAT..G.	.AG..G..C.	CG.A..AC.	TAT.AA...G	TTA.TG.TCC	A...G.TGC.	AA.AC....
T996	.....	.....	.....	.....G	.....	.....	.....	.....
T9102	.....	.....	.....	.....G	.....	.....	.....	.....
K1	.....	.....	.....	.....G	.....	.....	.....	.....
Dd2	.....	.....	.....	.....G	.....	.....	.....	.....
D10	.....	.....	.....	.....G	.....	.....	.....	.....
FCC2	T..A.C...A	.CATAT..G.	.AG..G..C.	CG.A..AC.	TAT.AA...G	TTA.TG.TCC	A...G.TGC.	AA.AC....
HB3	T..A.C...A	.CATAT..G.	.AG..G..C.	CG.A..AC.	TAT.AA...G	TTA.TG.TCC	A...G.TGC.	AA.AC....
7G8	T..A.C...A	.CATAT..G.	.AG..G..C.	CG.A..AC.	TAT.AA...G	TTA.TG.TCC	A...G.TGC.	AA.AC....
<i>P.reichenowi</i>	.....	.....	.....G	.....GG	.....-	---C.G	.....A	.....T

	1530	1540	1550	1560	1570	1580	1590	1600
PF10_0348	CAGATTAGAT	AATGTAAACT	CTGTAAACGCA	AAGAGGAAAT	AATAACTACA	ACAATAAATT	AGAGCGTGGA	TTGGGTCTGT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	T.T.....	.....G.A.....	.....	.....	.....C.....	.....	.....	.....CA..

	1610	1620	1630	1640	1650	1660	1670	1680
PF10_0348	GTGCTCTCC	TGGTACAAAT	ATTATTACTG	AAGAAAAATA	TTCTCTAGAA	TTAATAAAAT	TAACATCAAA	GGATGAAGAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>A.ACT.....	.....	.....T.....T.....	.....	.....

	1690	1700	1710	1720	1730	1740	1750	1760
PF10_0348	GATATTATAA	AGCATAATGA	GGATGTGAGA	GAAGAAATAG	AAGAACAACA	AGAAGACATC	GAGGAAGATG	AAGAAGAATT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	.....C.....	.....A.....	.....	.....	.....	.....A.A.....	.....	.....

	1770	1780	1790	1800	1810	1820	1830	1840
PF10_0348	GGAAAAATGAA	GGAGAAGAA-	-----	-----	-----	-----	-----	-----ACAAAAG
3D7	-----	-----	-----	-----	-----	-----
RO33	-----	-----	-----	-----	-----	-----
Palo Alto	-----	-----	-----	-----	-----	-----
FCR3	-----	-----	-----	-----	-----	-----
Wellcome	-----	-----	-----	-----	-----	-----
D6	-----	-----	-----	-----	-----	-----
T996	-----	-----	-----	-----	-----	-----
T9102	-----	-----	-----	-----	-----	-----
K1	-----	-----	-----	-----	-----	-----
Dd2	-----	-----	-----	-----	-----	-----
D10	-----	-----	-----	-----	-----	-----
FCC2	-----	-----	-----	-----	-----	-----
HB3	-----	-----	-----	-----	-----	-----
7G8	-----	-----	-----	-----	-----	-----
<i>P.reichenowi</i>	A.....	.....C	AACAAGAAGA	AATAGAGGAA	GATGAAGAAG	AATTGGAAAA	TGAAGGAGAA	GAA.....

PF10_0352

	10	20	30	40	50	60	70	80
PF10_0352	ATGAATAAGT	TTTGAATAT	TATATTTTAC	ATTTTCTCAA	TATTAATTT	CTCTTTCTTC	CAAAGCAATG	CCACAAGTAA
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....	.....	.....	.....	.....	.....	.....	.....
Palo Alto	.....	.....	.....	.....	.....	.....	.....	.....
FCR3	.....	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....	.....	.....	.....	.....
D6	.....	.....	.....	.....	.....	.....	.....	.....
T996	.....	.....	.....	.....	.....	.....	.....	.....
T9102	.....	.....	.....	.....	.....	.....	.....	.....
K1	.....	.....	.....	.....	.....	.....	.....	.....
Dd2	.....	.....	.....	.....	.....	.....	.....	.....
D10	.....	.....	.....	.....	.....	.....	.....	.....
FCC2	.....	.....	.....	.....	.....	.....	.....	.....
HB3	.....	.....	.....	.....	.....	.....	.....	.....
7G8	.....	.....	.....	.....	.....	.....	.....	.....
<i>P.reichenowi</i>	.....	.....	.....	.....	.....	.....	.....	.....T.....

	90	100	110	120	130	140	150	160
PF10_0352	GGAAATTCAA	AAAGATGAAC	AAAAGAATTT	AAGAAATGGT	TCTTCAATAA	ATAATAACAA	AAATATAGAA	AATAAAAAATG
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....	.....	.....	.....	.....	.....	.....	.....
Palo Alto	.....	.....	.....	.....	.....	.....	.....	.....
FCR3	.....	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....	.....	.....	.....	.....
D6	.....	.....	.....	.....	.....	.....	.....	.....
T996	.....	.....	.....	.....	.....	.....	.....	.....
T9102	.....	.....	.....	.....	.....	.....	.....	.....
K1	.....	.....	.....	.....	.....	.....	.....	.....
Dd2	.....	.....	.....	.....	.....	.....	.....	.....
D10	.....	.....	.....	.....	.....	.....	.....	.....
FCC2	.....	.....	.....	.....	.....	.....	.....	.....
HB3	.....	.....	.....	.....	.....	.....	.....	.....
7G8	.....	.....	.....	.....	.....	.....	.....	.....
<i>P.reichenowi</i>	.....A..G.....	.....	.....	.....T.....	.....	.....---	.....	.....

	170	180	190	200	210	220	230	240
PF10_0352	ATAATATTGA	AACTCAATAT	GAAGCTTCAG	AATATATAGA	AAAACAAAAT	GACATTTTAA	ATATGTATAA	TGATGAAAAA
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....	.....	.....	.....	.....G..	.....	.....	.....
Palo Alto	.....	.....	.....	.....	.....G..	.....	.....	.....
FCR3	.....	.....	.....	.....	.....G..	.....	.....	.....
Wellcome	.....	.....	.....	.....	.....G..	.....	.....	.....
D6	.....	.....	.....	.....	.....G..	.....	.....	.....
T996	.....	.....	.....	.....	.....G..	.....	.....	.....
T9102	.....	.....	.....	.....	.....G..	.....	.....	.....
K1	.....	.....	.....	.....	.....G..	.....	.....	.....
Dd2	.....	.....	.....	.....	.....G..	.....	.....	.....
D10	.....	.....	.....	.....	.....G..	.....	.....	.....
FCC2	.....	.....	.....	.....	.....G..	.....	.....	.....
HB3	.....	.....	.....	.....	.....G..	.....	.....	.....
7G8	.....	.....	.....	.....	.....G..	.....	.....	.....
<i>P.reichenowi</i>	.....G.....	.....	.....C.....	.....	.....G.....	.....T.....	.....	.....G.....

	250	260	270	280	290	300	310	320
PF10_0352	GAGAAAAATA	ATAATAATTC	ATTAGATACA	AATGTAACAA	AAAATACTGT	AATTGATAAT	TCAAATAAAT	TTCAATCAAT
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....	.....	.....	.....	.....	.....	.....	.....
Palo Alto	.....	.....	.....	.....	.....	.....	.....	.....
FCR3	.....	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....	.....	.....	.....	.....
D6	.....	.....	.....	.....	.....	.....	.....	.....
T996	.....	.....	.....	.....	.....	.....	.....	.....
T9102	.....	.....	.....	.....	.....	.....	.....	.....
K1	.....	.....	.....	.....	.....	.....	.....	.....
Dd2	.....	.....	.....	.....	.....	.....	.....	.....
D10	.....	.....	.....	.....	.....	.....	.....	.....
FCC2	.....	.....	.....	.....	.....	.....	.....	.....
HB3	.....	.....	.....	.....	.....	.....	.....	.....
7G8	.....	.....	.....	.....	.....	.....	.....	.....
<i>P.reichenowi</i>	.....G.....	.....	.....	.....A.....	.....	.....C.....	.....G.....	.....A..G.....

	330	340	350	360	370	380	390	400
PF10_0352	TGAAGACAAT	AATGTATACA	ATAAAGGTAT	ATTGTAGGT	ACTGGGATAA	AATTAATGA	TTCACAACT	ACATCTGATA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	T.G	.....	.....	.....	.....	.....	.....

	410	420	430	440	450	460	470	480
PF10_0352	ATTACAAAA	TGAACGATAT	CAAATAGACG	ATGAAAAATT	GAAGTATGGA	GGGTCGTTTG	ACACAATTTT	TTCAGGTTTT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	A	G	.....	A	.....

	490	500	510	520	530	540	550	560
PF10_0352	GTTAATTTAT	TAACACCATC	AAGTCCTACT	CAAAACGATG	GATCTACAGG	AAGAAATGTA	CCACCTCCTA	GTGAACCTAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	A	C.A	T	.....	C	G	.....

	570	580	590	600	610	620	630	640
PF10_0352	TGTTGATACA	CCAGATCCCTC	CAACAGCACC	CGCACCTGTA	AAGGTACCTG	AAGATGCAAA	ATTATCAAGT	TCTCCTAGAC
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	G	T	AA	T	.....	A	.....	C

	650	660	670	680	690	700	710	720
PF10_0352	CTGAAGGACC	AAGAGCAAAC	AATAGAAATG	AAAATAATCA	AAATACAGAT	CCATATAACC	ACTATTTTGC	ATGGGAATT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>G.....	.....T.....	.....	.....

	730	740	750	760	770	780	790	800
PF10_0352	GGAGGTGGTG	CTCCAACGTA	TAAACCCGAG	AACAATAAGA	ACGATAATAT	TTTGCTAGAA	CACGTAAAAA	TTACCTCGTG
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	.....C.....	.....	.....A.....	.....	.....	.....	.....AA.....	.....A.....

	810	820	830	840	850	860	870	880
PF10_0352	GGATAAAGAA	GATATAATTA	AAGAAAATGA	AGACACAAAA	CGCGAAGTTC	AAGAAACTGA	AGACACTGAC	GAAACTGAAG
3D7
RO33
Palo Alto
FCR3T.....	.....	.....	.....	.....	.....
WellcomeT.....	.....	.....	.....	.....	.....
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>G.....	.....T.....A.....	.....	.....C.TA.....	.....T.....C.....

	890	900	910	920	930	940	950	960
PF10_0352	ATACTGACGA	AACTGAAGAA	ACAGAAGATA	-----T	GGAAGATGAA	AACGAAATTG	TGGAAGATCA	ATTACAAGAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	.....A.....	.....A.....	.....	.....ATTAGATA.....	.....A.....	.....	.....G.....	.....

	970	980	990	1000	1010	1020	1030	1040
PF10_0352	AATGAAGATG	ATGAGGATAA	TGTAATTTA	GAAGATATTA	ATAAAAATAC	TAGAAATGAT	ATATTTGAAG	AACAAATAAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	.....A.....	.....	.....	.....	.....T.....	.....A.....	.....	.....

	1050	1060	1070	1080	1090	1100	1110	1120
PF10_0352	ATTAGATTCT	ACGCAAGATG	ACAAAGCTCA	AAAATTAATT	TCTAATGAAT	ATAAAAAAAC	TGAAGAAAAA	AAATCATTAG
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>C.....	.....	.....A.....	.....T.....

	1130	1140	1150	1160	1170	1180	1190	1200
PF10_0352	AAGATCATGT	AAATCTATTA	TTTAATTTT	TACAAACAAA	TAACCAACTA	GATCCTTCAC	TAAAAGATTT	AGAAAATGAG
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>G.....	.....	.....	.....

	1210	1220
PF10_0352	TTAACTTTTT	TTTAAATAA CTATTGA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>

	650	660	670	680	690	700	710	720
PF13_0197	GAGAAATCGAC	ATTTCAAAAA	GACCTAGATA	AGAAATTATA	TAATTTAGGA	GATGTTTTTA	ATCATGTAGT	TGATATTTCA
3D7
RO33G.....	.....T.....	.....A.....	.....	.....	.....	.....
Palo Alto
FCR3G.....	.....	.....	.....	.....	.....	.....
WellcomeG.....	.....	.....	.....	.....	.....	.....
D6
T996
T9102G.....	.....	.....	.....	.....	.....	.....
K1G.....	.....	.....	.....	.....	.....	.....
Dd2T.....	.....A.....	.....	.....	.....	.....
D10
FCC2
HB3G.....	.....T.....	.....A.....	.....	.....	.....	.....
7G8
<i>P.reichenowi</i>	C.A.....C.	.....G.....	.....T.C.AC.....	.....	.....	.....G.....	.....A.....	.....C.....

	730	740	750	760	770	780	790	800
PF13_0197	AACAAAAAGA	ACAAAATAAA	TCTCGATGAA	TATGGTAAAA	AATATACAGA	TTTCAAAAAA	GAATATGAAG	ACTTCGTTTT
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....G.G.....	.....	.....A.....	.....G.....	.....	.....	.....	.....
Palo Alto	.....	.....	.....A.....A.....	.....G.....	.....	.....	.....	.....
FCR3	.....G.....	.....	.....	.....A.....	.....	.....	.....	.....
Wellcome	.....G.....	.....	.....	.....A.....	.....	.....	.....	.....
D6	.....	.....	.....	C.....A.....	.....	.....	.....	.....
T996	.....	.....	.....	C.....A.....	.....	.....	.....	.....
T9102	.....G.....	.....	.....	.....A.....	.....	.....	.....	.....
K1	.....G.G.....	.....	.....A.....	.....A.....	.....	.....	.....	.....
Dd2	.....G.G.....	.....	.....A.....	.....G.....	.....	.....	.....	.....
D10	.....G.....	.....	.....	.....	.....	.....	.....	.....
FCC2	.....G.G.....	.....	.....A.....	.....G.....	.....	.....	.....	.....
HB3	.....G.G.....	.....	.....A.....	.....G.....	.....	.....	.....	.....
7G8	.....	.....	.....	.....	.....	.....	.....	.....
<i>P.reichenowi</i>	.....G.A.....	.....	.....A..AT.A.T.....	.....G.....	.....C.....	.....	.....	.....

	810	820	830	840	850	860	870	880
PF13_0197	AAATTCCTAAA	GAATATGATA	TAATCAAAAA	TCTAATAATT	ATGTTTGGTC	AAGAAGATAA	TAAGAGTAAA	AATGGCAAAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2C.....	.....
HB3
7G8
<i>P.reichenowi</i>T.....	.....AC.....

	890	900	910	920	930	940	950	960
PF13_0197	CGGATATTGT	AAGTGAAGCT	AAACATATGA	CTGAAATTTT	CATAAAACTA	TTTAAAGATA	AGGAATACCA	TGAACAATTT
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....G.....	.....	.....	T.....	.....	.....	.....	.....
Palo Alto	.....	.....	.....	.....	.....	.....	.....	.....
FCR3	.....	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....	.....	.....	.....	.....
D6	.....	.....	.....	.....	.....	.....	.....	.....
T996	.....	.....	.....	.....	.....	.....	.....	.....
T9102	.....	.....	.....	.....	.....	.....	.....	.....
K1	.....	.....	.....	T.....	.....	.....	.....	.....
Dd2	.....T.....	.....	.....	T.....	.....	.....	.....	.....
D10	.....T.....	.....	.....	T.....	.....	.....	.....	.....
FCC2	.....	.....	.....	T.....	.....	.....	.....	.....
HB3	.....G.....	.....	.....	T.....	.....	.....T.....	.....	.....
7G8	.....	.....	.....	.....	.....	.....	.....	.....
<i>P.reichenowi</i>	.....G.....T.....	.....G.....	.....A.....	.....	.....T.....	.....AG.C.....G.....	.....A.....	.....C.....

	170	180	190	200	210	220	230	240
PF13_0196	TAGGTATGCA	AAATGATGTG	GAAGAAAATT	TAGATAATGG	AAAAAATGTG	TTAGAAGATG	AACATTTGGT	TATAGGCCAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	..A..A.	..C.....	.....	.....	.....	.....	.....	.....

	250	260	270	280	290	300	310	320
PF13_0196	GAAGGACAAA	CCGACAATGA	GGGTCCTCAT	ACAGAAACTA	AACCTGAAAG	ATCTGTTGAA	TCAGGAGGTA	CAGGCGATAG
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....	.....	.....	.....G	.....	.....	.....	.....
Palo Alto	.....	.....	.....	.....G	.....	.....	.....	.....
FCR3	.....	.....	.....	.....G	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....G	.....	.....	.....	.....
D6	.....	.....	.....	.....G	.....	.....	.....	.....
T996	.....	.....	.....	.....G	.....	.....	.....	.....
T9102	.....	.....	.....	.....G	.....	.....	.....	.....
K1	.....	.....	.....	.....G	.....	.....	.....	.....
Dd2	.....	.....	.....	.....G	.....	.....	.....	.....
D10	.....	.....	.....	.....G	.....	.....	.....	.....
FCC2	.....	.....	.....	.....G	.....	.....	.....	.....
HB3	.....	.....	.....	.....G	.....	.....	.....	.....
7G8	.....	.....	.....	.....G	.....	.....	.....	.....
<i>P.reichenowi</i>	.....GA	.....T	.....A	.....G	.....T	.....C	.....G	.....AC
								.....T
								.....C

	330	340	350	360	370	380	390	400
PF13_0196	CGTTTCAAAT	CATGAATCGG	AATTACCAAG	AGATACAGAA	ACTCGTGAAG	TTGTAACAAC	AGTACAACCA	GGAACACAAT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	.....G	.....G	.....C	.....C	.....	.....	.....	.....T

	410	420	430	440	450	460	470	480
PF13_0196	TAGGAGAATC	AGGAGCAAAA	GAAACATTAG	AGTCACAAAC	ATCACCAGCA	CCACAGGGAA	CATCAGGATT	ACAAGGAGAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	C.....	.....A	.....T	.....T	.....C	.....GA	.....G	.....G

	490	500	510	520	530	540	550	560
PF13_0196	AAGGTACCAG	GTGCCATTATC	AAGTGTATCA	CAAACGTCTA	GTCCCGATGT	ATCATCAAGA	TCTGAACAAC	CACAAACGAT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	G.....	.....	.....	A.....	.....	.....	.....	G

	570	580	590	600	610	620	630	640
PF13_0196	GCCAGAATCA	CCAAGACCAG	AAGGAACATC	AACCGAATCA	CAACCAAGAG	GATCGACAGA	ATCAGATGCA	AGT-----A
3D7	-----
RO33	-----
Palo Alto	-----
FCR3	-----
Wellcome	-----
D6	-----
T996	-----
T9102	-----
K1	-----
Dd2	-----
D10	-----
FCC2	-----
HB3	-----
7G8	-----
<i>P.reichenowi</i>	AC.....	.....	A.....	.....	C	TC.GCAGAT

	650	660	670	680	690	700	710	720
PF13_0196	ATAAAAATGG	TTCCCAAAC	AATGTTAGGA	CAATTTCAA	TTCTAGTAAT	AGTATCACAT	CTCCTCAAAC	GACACAACCT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	G

	730	740	750	760	770	780	790	800
PF13_0196	AGTAATAATC	AAAATAATAC	AGTAAGTACA	ACCTCAGAAG	TGAAATATTT	AGATCTCCTT	TATGATGAAC	TTCTTACAAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	G	T


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          1130          1140
    ....|....| ....|....| ....|....
PF13_0196 ATGCAGTGGG TTTATTAAAT ACACTTTGA
3D7 .....
RO33 .....
Palo Alto .....
FCR3 .....
Wellcome .....
D6 .....
T996 .....
T9102 .....
K1 .....
Dd2 .....
D10 .....
FCC2 .....
HB3 .....
7G8 .....
P.reichenowi .....

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MRSP2

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          10          20          30          40          50          60          70          80
    ....|....| ....|....| ....|....| ....|....| ....|....| ....|....| ....|....|
MAL13P1.174 ATGAAGGGAC AAGCAATTTA TTTCTTTTTT GTTTCCTTAT ATTTCTCAA TTGTGTGGGG TGCAATTCAA AGAATAATAA
3D7 .....
RO33 .....
PALO ALTO .....
FCR3 .....
WELLCOME .....
D6 .....
T996 .....
T9102 .....
K1 .....
Dd2 .....
D10 .....
FCC2 .....
HB3 .....
7G8 .....
P.reichenowi ..... A.....T.....

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          90          100          110          120          130          140          150          160
    ....|....| ....|....| ....|....| ....|....| ....|....| ....|....| ....|....|
MAL13P1.174 TAAGCGAACA AGTTATAATA AGAAAAAAGA AAACCTTAAA AATTCGATA ATATTGTTCT TGATGATTTT TATTCAGCGT
3D7 .....
RO33 .....
PALO ALTO .....
FCR3 .....
WELLCOME .....
D6 .....
T996 .....
T9102 .....
K1 .....
Dd2 .....
D10 .....
FCC2 .....
HB3 .....
7G8 .....
P.reichenowi ..... G..C..... A.

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          170          180          190          200          210          220          230          240
    ....|....| ....|....| ....|....| ....|....| ....|....| ....|....| ....|....|
MAL13P1.174 TTGATTCCCA AGATAATTAT GAAAGTAAAT TAAAAAATA TGAGGATGAT ATTATCGGAC AAGGTATCTT TTCTCTTATA
3D7 .....
RO33 .....
PALO ALTO .....
FCR3 .....
WELLCOME .....
D6 .....
T996 .....
T9102 .....
K1 .....
Dd2 .....
D10 .....
FCC2 .....
HB3 .....
7G8 .....
P.reichenowi ..... T.....

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	250	260	270	280	290	300	310	320
MAL13P1.174	AGTAAAAAGA	ATCAAGAAAA	GGAAAAGTCA	TTAAAAGGGG	AATCAGAAGA	TAATACAAAA	CTTCAAGTAA	CCAAAGTCCA
3D7
RO33
PALO ALTO
FCR3
WELLCOME
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	---.T	.A.	.G.

	330	340	350	360	370	380	390	400
MAL13P1.174	AGGTGCTCAA	GTTGATCAAG	CGGTTGAACC	ATTGGAAAAA	TCACCAGAAG	AT-----GA	AAATAAAGAA	ATACCAACTT
3D7	-----
RO33	-----
PALO ALTO	-----
FCR3	-----
WELLCOME	-----
D6	-----
T996	-----
T9102	-----
K1	-----
Dd2	-----
D10	-----
FCC2	-----
HB3	-----
7G8	-----
<i>P.reichenowi</i>C..T.	.....	.....	.AACATA.	.G.	.....

	410	420	430	440	450	460	470	480
MAL13P1.174	TGGATTCAAC	ACAAAATGGA	AATCCTACTT	CTTATACATC	AAATTTAAGT	ACACCACCTC	TTAAACGCAT	GGATGAAGTT
3D7
RO33
PALO ALTO
FCR3
WELLCOME
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	.A.C.	.....A.	.....A	.....	.....	.....	.....	.....

	490	500	510	520	530	540	550	560
MAL13P1.174	TTTGACGATG	TTCTTAAACA	TTTAAATAAA	GAAGATAAAG	TTGTCACTGA	TGAGAATAAA	AATAAATATA	ATGAATTTAA
3D7
RO33
PALO ALTO
FCR3
WELLCOME
D6
T996	.....T.....	.....	.....	.....	.....	.....	.....	.....
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	.....T.....	.....	.....	.....	.....	.....G.....	.....	.....

	570	580	590	600	610	620	630	640
MAL13P1.174	AAAAGAGTTT	GATATCTTTA	CTATGAATGT	AAGTGAATAT	GAAATAATGA	AAAACCTTCT	TATTACATTC	TCAAAGAAAA
3D7
RO33
PALO ALTO
FCR3
WELLCOME
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>

	650	660	670	680	690	700	710	720
MAL13P1.174	TTGATGAAAA	TAATCAAATT	CAAACAAAAA	TAGAAAAATAT	ATTTAATAAA	GCTTTAAAGG	ATAATAAATA	TAAAGAACAA
3D7
RO33
PALO ALTO
FCR3T.....	.....	.....
WELLCOMET.....	.....	.....
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>C.....	.....

	730	740	750	760	770	780	790	800
MAL13P1.174	TTTAAAAACT	TTATCTATGG	ATTGTATAGC	TTTGCAAAAA	GACATAATTA	TTTAATAGTT	AATAAACTA	ATGACACAAC
3D7
RO33
PALO ALTO
FCR3
WELLCOME
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>C.....	.A.....	.A.....	.....	.C...GG..	.....	.T.....

	810	820	830	840	850
MAL13P1.174	ACTACATAAA	GATTTATTGG	AAAATGCTCT	TAATTTAATA	AATACTATTT AG
3D7
RO33
PALO ALTO
FCR3
WELLCOME
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	..T...G..	.A.....

MRSP3

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          10          20          30          40          50          60          70          80
PF13_0193  ....|....|  ....|....|  ....|....|  ....|....|  ....|....|  ....|....|  ....|....|
3D7        ATGATAAAAG GACTTATTTT TTATTGTGTT ATATGCTTTT TTGTATTTT  CGTACACGCT GTTTCATCAC AGGAACAGCC
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
P.reichenowi  .... .CC. .... .C. .... .A. .C. ....

          90          100          110          120          130          140          150          160
PF13_0193  ....|....|  ....|....|  ....|....|  ....|....|  ....|....|  ....|....|  ....|....|
3D7        AAACCATACA GACATATATA CCAATGAAGA TTATAAACTA TTAGAAGAAC TAGAAAAATA TCTTGATAAT TTAAAAAATA
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
P.reichenowi  .... .T. .... A.T.A. .... .G. .... .G. ....

          170          180          190          200          210          220          230          240
PF13_0193  ....|....|  ....|....|  ....|....|  ....|....|  ....|....|  ....|....|  ....|....|
3D7        CATTACACA CAAGTTTCTT GAGAACTTTA AAGGTGATAT CGAATTATTA AAAAAAACA TTCAAAACCT TGAAAAAATA
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
P.reichenowi  .... .A. .... .A. .... .T. ....

          250          260          270          280          290          300          310          320
PF13_0193  ....|....|  ....|....|  ....|....|  ....|....|  ....|....|  ....|....|  ....|....|
3D7        AATTATAATA ATGTAACAGG TCAAAATGTG GACGATTATG AT----- -----AAAA ATGGTGATAA
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
P.reichenowi  .... .G. .... .A. .... .GATGAACA TCAAACAGT TATGAT .... .C. ....
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	330	340	350	360	370	380	390	400
PF13_0193	TAATAATCAT	AATGAT						
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	A...G..G..	..AA..GATG	ATAAAAAATGG	TCATAAAAAAT	GATGATAAAA	ATGGTCATAA	AAATGATGAT	AAAAATGATG

	410	420	430	440	450	460	470	480
PF13_0193
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	ATAAAAAATGA	TGATAAAAAAT	GGTGATAAAA	ATGATGATAA	AAATGATGAT	AAAAATGGTG	ATAAAAAATGA	TGATAAAAAAT

	490	500	510	520	530	540	550	560
PF13_0193
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	GATGATAAAA	AT-----	-----	-----	-----	-----	-----	-----

	570	580	590	600	610	620	630	640
PF13_0193	AGTTGATGTT	TCAGCAAGTA	AAGTTACTCA	AAAAAGTGAT	GAAACCAAAG	CTGATGAAAA	AGCTGAACAG	AATGCTGAAG
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	-----	-----	-----	-----	-----	-----	A..C..A	.....C

	650	660	670	680	690	700	710	720
PF13_0193	CTAACGCATC	TTCATCCGCT	TCATCAGAAG	AACAAAGTTC	ATCATTACAA	AATACAAATG	ACCAATCATT	TGGTAACACA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>TC..	..A..C.	.....	..G.G.	.....	..G..T.	.....

	730	740	750	760	770	780	790	800
PF13_0193	AATAATCCAA	AAATGGATAG	AAAAAATGCC	GATGAACAAA	AAAGAGATGC	AGGTTTATCT	AATTTAAAAA	ATATAGATAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>A..C.	..T..TAA.	.....	.....	..TA..T.A.	CTAA.TT.	..A..T.G.T

	810	820	830	840	850	860	870	880
PF13_0193	ACTTTGCGAT	GAACTCCTAA	TCTATTATA	TAAAAAAT	GAAGTAAATA	CCAATAATTA	TCTTAGAAAA	TATGATGAAT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	..AAC.TT.CG	ATGAA.TCCT	AA.C.A.T.	..T.....	A.A.T.A.GTA.	AT.CC...A.	TA.CTT.G.	A.AT...TG

	890	900	910	920	930	940	950	960
PF13_0193	TTAAAAATAA	ATTGATCAA	TTTTATTGA	ATGTTAATAA	ATATGAATTA	CTTAAGAAAC	TCATTCTTAA	TTTTTTTAAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	AATTT..A..	TAAATT.G.T	CAA..T..AT	TGAA.GT...	TA.AT.TGA.	T.ACTT..GA	AAC.CA..CT	AA.G..TTT


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          1290      1300      1310
    ....|....| ....|....| ....|....| .
PF13_0193 ACCAGCCACA GCGACACAAC AAAAAAATA A
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
P.reichenowi

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MRSP4

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          10      20      30      40      50      60      70      80
    ....|....| ....|....| ....|....| ....|....| ....|....| ....|....|
MAL13_P1.173 ATGAAAGGTA GAATTATATC TTTTTCATTT TTCCTTTTCT GTATGGTTCA TTTTGTATTT TGTGATAAAA ATACATTCCC
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
FCC2
D10
HB3
7G8
P.reichenowi
          .C.          .G.

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          90      100      110      120      130      140      150      160
    ....|....| ....|....| ....|....| ....|....| ....|....| ....|....|
MAL13_P1.173 TAAAGAAATA ATTGAATATG AAAAAGACTT GGAATTAGCA AAAATAAAG AAAAATTACA AAACCTAAAT GACATAATAG
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
FCC2
D10
HB3
7G8
P.reichenowi
          .A.

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          170      180      190      200      210      220      230      240
    ....|....| ....|....| ....|....| ....|....| ....|....| ....|....|
MAL13_P1.173 TAGACAAATT GATAGAATCC TTAAAGATA ATGTTGATGT ATTAAAGTA ATAATCAAG AATTAGAAAA AGAAAAAGAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
FCC2
D10
HB3
7G8
P.reichenowi
          .G          .T

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	250	260	270	280	290	300	310	320
MAL13_P1.173
3D7	AGGAAAATA	AATTGGCAA	GAAAAAAGG	GAAATAAGCA	ATAATGATT	TTTAAACAAT	AAGAATAGTA	ATAAAATTAA
RO33T.G..
Palo AltoT...T...
FCR3T...T...
WellcomeT...T...
D6T...T...
T996T...T...
T9102T...T...
K1T...T...
Dd2T...T...
FCC2T...T...
D10T...T...
HB3T...T...
7G8T...T...
<i>P.reichenowi</i>	-----G.....	.....	.....	.....	.....A...T...	.....T...

	330	340	350	360	370	380	390	400
MAL13_P1.173	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|
3D7	AGGACAAGGA	TTTTTACTT	CTACATGGAA	ACAAATAAAA	GGAAATCTG	AAGAAAATTC	GGAGAATCAA	CAAAAATCAT
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
FCC2
D10
HB3
7G8
<i>P.reichenowi</i>	.....T	.....	.....	.....T.....	.....	.....G.....	.....	.....

	410	420	430	440	450	460	470	480
MAL13_P1.173	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|
3D7	CAAAAAGCCA	ATCGTTACAA	TCAAATGAAC	CAAATAAATT	AAATCAAGAA	AATATATCCC	CAGTACAAAC	CACCATAACA
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
FCC2
D10
HB3
7G8
<i>P.reichenowi</i>	.....T	.....	.....	.....	.....	.....	.....	.....

	490	500	510	520	530	540	550	560
MAL13_P1.173	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|
3D7	AATACAAATG	TTGATAATAC	AATATCTGTA	ATTAAATATT	TAGATAATGC	TTATGATGAA	GTTCTTAAGG	AAATGAATTT
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
FCC2
D10
HB3
7G8
<i>P.reichenowi</i>A.....	.....

	570	580	590	600	610	620	630	640
MAL13_P1.173	ATCCAAAAAT	TCAGATAATG	AAAAATATCG	TAGCAGGTTT	GACAATTCA	AACAAGGATT	TGAAAATTTA	ATCCTTAATC
3D7
RO33G.	.....	.....	.....	.....	.....
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
FCC2
D10
HB3
7G8G.	.....	.....	.....	.....	.....
<i>P.reichenowi</i>	...G.....	.....	.....	.....	...GC.....	.....	.....	.....

	650	660	670	680	690	700	710	720
MAL13_P1.173	AAAATGAATA	TGAACCTTATT	AAGAGACTTA	TTCCTGCTTT	TTCTAATCAA	GAAGAATCAG	GTACTAATAA	AAAAAATCAT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
FCC2
D10
HB3
7G8
<i>P.reichenowi</i>A	.....G.....	.....

	730	740	750	760	770	780	790	800
MAL13_P1.173	ATAGTAAATA	TGCTCAAAAA	AGCTTTAGAA	GAAGAGAAAT	TTAGTGATGA	ATTTAAAAAT	TTTATTTATG	GTATTTATGC
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
FCC2
D10
HB3
7G8
<i>P.reichenowi</i>

	810	820	830	840	850	860	870	880
MAL13_P1.173	ATATGCCAAG	AAACATAAAT	ATTTAAGACT	TATAGATTCT	AATAGGGACA	TATATAAAAA	CGTTTTTGAA	AATGCAACCA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
FCC2
D10
HB3
7G8
<i>P.reichenowi</i>C.....	.....	.....C.....	.....G.....	.....	.....

	1210	1220	1230	1240	1250	1260	1270	1280
PF13_0191	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|
3D7	AATCAAAATG	AATGTGATTT	AATAAAAAAG	TTGATTATTA	CCTTTTCTCA	AGAAAATGTA	GAAATGAAAA	GAGATTCCAT
RO33
Palo Alto
FCR3
WellcomeG.....
D6G.....
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>A...C.....	.....	.....	.....	.....	.....	.....

	1290	1300	1310	1320	1330	1340	1350	1360
PF13_0191	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|
3D7	AAAAGAAATT	TTTTTAAAAG	CTTTGGATGA	TAAAAAATAC	CGTGAAGTAT	TTAAAAACTT	CATGTATGGT	GTATATAGTT
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>G.....	.....	.....T A.....	.....	.....T.....	.....	.....

	1370	1380	1390	1400	1410	1420	1430	1440
PF13_0191	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|
3D7	ATGCAAAACG	TCATAATTAT	TTGGATATTG	AAAAAATGGA	AAAAAATGAA	AGGGCCTATA	AAAAATTATT	CGAAAACACA
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>

	1450	1460
PF13_0191	....|....|	....|....|
3D7	CTTAACTTAT	TAGATACCAT ATGA
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>

PF13_0192

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          10          20          30          40          50          60          70          80
PF13_0192  ....|....| ....|....| ....|....| ....|....| ....|....| ....|....| ....|....|
3D7        ATGACGGTAC AGTATAATAG AATTATTTT CTACCAATCA GTTCTAATT TTTTATATAT AGTATTTTAT TTTATTAGA
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
P.reichenowi
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          90          100         110         120         130         140         150         160
PF13_0192  ....|....| ....|....| ....|....| ....|....| ....|....| ....|....| ....|....|
3D7        ATATTAAAG GATTCCCAA AAAAAAAAAA AAAAAAAAAA ATGAAAAGCA AAAAAATAAT ATGTTTATCT TGCTATTTT
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
P.reichenowi
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          170         180         190         200         210         220         230         240
PF13_0192  ....|....| ....|....| ....|....| ....|....| ....|....| ....|....| ....|....|
3D7        TAATATTTT AAGTGTAATA TTTTGTAGTG AACCAGATAC AAATTCATT GATGAAAATG TAAAGAAGAA TGAAGTTTT
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
P.reichenowi
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          250         260         270         280         290         300         310         320
PF13_0192  ....|....| ....|....| ....|....| ....|....| ....|....| ....|....| ....|....|
3D7        AATGCCTTAA ATGAACATTT AGAAAAGTATA AGTAATATCG TAAAAGTAAA TATTATGGAT GCCCTTTCAA ATAACCCTTC
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
P.reichenowi
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	970	980	990	1000	1010	1020	1030	1040
PF13_0192	ACATATTTAA	GAAGACCTGA	AAAGAAAGAA	GAAACAAAAG	AATATCCTAA	CAATGGATGT	TCTGTAGTTC	AAATATCTAT
3D7
RO33
Palo AltoA..	.....	.....	.....	.....	.....	.....
FCR3
Wellcome
D6A..	.....	.....	.....	.....	.....	.....
T996A..	.....	.....	.....	.....	.....	.....
T9102
K1
Dd2
D10A..	.....	.....	.....	.....	.....	.....
FCC2
HB3
7G8A..	.....	.....	.....	.....	.....	.....
<i>P.reichenowi</i>A..	.T..	.....	.....	.....	.G..	.....

	1050	1060	1070	1080	1090	1100	1110	1120
PF13_0192	AGTAACTAAT	GAAGATTTT	TAAAAAAGT	TAGAGAAAGA	AATAAAAAGA	GAAATAATAA	AAAAGAACA	AATATTATG
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>TA..

	1130	1140	1150	1160	1170	1180	1190	1200
PF13_0192	ATAGTGATGA	AGAATCAGAA	AGTTCAGAAG	AAACAAGTAA	AGATCCCTAT	TCATCGGGTC	CATATACAGT	TGATCATAAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>A..	.....	.A..	.....	.A..	.C..	.A..

	1210	1220	1230	1240	1250	1260	1270	1280
PF13_0192	AATGAAATT	GTTTTCTTA	CAAGCAAAT	TCAGATATTC	ATCCAATAT	AAATAATGAT	-----	-----
3D7	-----	-----
RO33	AATAATGAAA	ATAATGATAA
Palo Alto	-----	-----
FCR3	-----	-----
Wellcome	-----	-----
D6	AATAATGAA-	-----
T996	AATAATGATA	ATAATGAAAA
T9102	-----	-----
K1	-----	-----
Dd2	-----	-----
D10	-----	-----
FCC2	-----	-----
HB3	-----	-----
7G8	AATAATGATA	ATAATGAAAA
<i>P.reichenowi</i>A..T..	.....	.G..	.....	.A..	-----	-----

	1290	1300	1310	1320	1330	1340	1350	1360
PF13_0192	.....|.....|.....|.....|.....|.....|.....|.....|.....|							AATAATGATA
3D7	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
RO33	TAATGAAAT	AATGATAATA	ATGAAAATAA	T-----	-----	-----GA	TAATAATGAA	.....
Palo Alto	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
FCR3	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
Wellcome	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
D6	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
T996	TAATGATAAT	AATGAAAATA	ATGAT----	-----	-----	-----	-----	.....
T9102	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
K1	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
Dd2	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
D10	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
FCC2	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
HB3	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
7G8	TAATGATAAT	AATGAAAATA	ATGATAATAA	TGAAAATAAT	GATAATAATG	AAAATAATGA	TAATAATGAA	.....
<i>P.reichenowi</i>	-----|-----|-----|-----|-----|-----|-----|-----|-----|							

	1370	1380	1390	1400	1410	1420	1430	1440
PF13_0192	.....|.....|.....|.....|.....|.....|.....|.....|.....|						
3D7	ATAATGAAA	TAATGATAAT	AATGAAAATA	ATGATAATAA	T-----	-----A	TACCTGTTAA	TAATAAAAAA
RO33	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
Palo Alto	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
FCR3	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
Wellcome	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
D6	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
T996	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
T9102	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
K1	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
Dd2	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
D10	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
FCC2	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
HB3	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
7G8	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
<i>P.reichenowi</i>	-----|-----|-----|-----|-----|-----|-----|-----|-----|							

	1450	1460	1470	1480	1490	1500	1510	1520
PF13_0192	.....|.....|.....|.....|.....|.....|.....|.....|.....|						
3D7	AATCTCATA	CTCCTCATGT	ACCAAAGAT	ACCAAATA	ATATAGAAA	AAATCATAGT	AACATAATT	ACAACCAAT
RO33	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
Palo Alto	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
FCR3	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
Wellcome	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
D6	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
T996	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
T9102	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
K1	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
Dd2	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
D10	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
FCC2	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
HB3	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
7G8	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
<i>P.reichenowi</i>	-----|-----|-----|-----|-----|-----|-----|-----|-----|							

	1530	1540	1550	1560	1570	1580	1590	1600
PF13_0192	.....|.....|.....|.....|.....|.....|.....|.....|.....|						
3D7	TAATCAAGAA	AATTTATCAA	TGTATTTTAA	TAATAATAAT	AAGAAGAAGA	AT-----	AAA	AAGAATAGTC
RO33	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
Palo Alto	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
FCR3	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
Wellcome	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
D6	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
T996	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
T9102	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
K1	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
Dd2	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
D10	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
FCC2	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
HB3	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
7G8	-----|-----|-----|-----|-----|-----|-----|-----|-----|							
<i>P.reichenowi</i>	-----|-----|-----|-----|-----|-----|-----|-----|-----|							

	410	420	430	440	450	460	470	480
PF13_0194	ATGAACATGT	TAATACTCCT	TTCTCTACAA	CTTTTAAAAA	TGCATTAGAA	AAAGATGAAT	TCCGTGATAG	TATCACGAAA
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....	.....	.....	.....	.....	.....	.....	.....
Palo Alto	.....	.....	.....	.....	.....	.....	.....	.....
FCR3	.....	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....	.....	.....	.....	.....
D6	.....	.....	.....	.....	.....	.....	.....	.....
T996	.....	.....	.....	.....	.....	.....	.....	.....
T9102	.....	.....	.....	.....	.....	.....	.....	.....
K1	.....	.....	.....	.....	.....	.....	.....	.....
D10	.....	.....	.....	.....	.....	.....	.....	.....
FCC2	.....	.....	.....	.....	.....	.....	.....	.....
HB3	.....	.....	.....	.....	.....	.....	.....	.....
7G8	.....	.....	.....	.....	.....	.....	.....	.....
<i>P.reichenowi</i>	.....	.....	.....	.....	.....	.....	.....	CC.....

	490	500	510	520	530	540	550	560
PF13_0194	TTAACAGAAG	CACTATGTGG	ACATACAAAA	GATAATCATA	ATAATTTAAG	AGGAACTAGC	CAAAATGATT	CAGACTATTT
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....	.....	.....	.....	.....	.....	.....	.....
Palo Alto	.....	.....	.....	.....	.....	.....	.....	.....
FCR3	.....	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....	.....	.....	.....	.....
D6	.....	.....	.....	.....	.....	.....	.....	.....
T996	.....	.....	.....	.....	.....	.....	.....	.....
T9102	.....	.....	.....	.....	.....	.....	.....	.....
K1	.....	.....	.....	.....	.....	.....	.....	.....
D10	.....	.....	.....	.....	.....	.....	.....	.....
FCC2	.....	.....	.....	.....	.....	.....	.....	.....
HB3	.....	.....	.....	.....	.....	.....	.....	.....
7G8	.....	.....	.....	.....	.....	.....	.....	.....
<i>P.reichenowi</i>	.....	.....	.....	.....	.....	.....	.....	.....

	570	580	590	600	
PF13_0194	ACATTCAGTA	TATGATAAGG	CCCTTTCTCA	TTTAGATACC	TTACAATAA
3D7	.....	.....	.....	.....	.....
RO33	.....	.....	.....	.....	.....
Palo Alto	.....	.....	.....	.....	.....
FCR3	.....	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....	.....
D6	.....	.....	.....	.....	.....
T996	.....	.....	.....	.....	.....
T9102	.....	.....	.....	.....	.....
K1	.....	.....	.....	.....	.....
D10	.....	.....	.....	.....	.....
FCC2	.....	.....	.....	.....	.....
HB3	.....	.....	.....	.....	.....
7G8	.....	.....	.....	.....	.....
<i>P.reichenowi</i>	.....	.....	.....	.....	.....

MSP9 - ABRA FCC1_HN

	10	20	30	40	50	60	70	80
PFL1385c	ATGATGAACA	TGAAAATTGT	TTTATTCAGT	TTATTGCTCT	TTGTCATAAG	ATGGAATATT	ATTAGTTGTA	ATAAAAACGA
3D7								
RO33								
Palo Alto								
FCR3								
Wellcome								
D6								
T996								
T9102								
K1								
Dd2								
D10								
FCC2								
HB3								
7G8								
<i>P.reichenowi</i>								

	90	100	110	120	130	140	150	160
PFL1385c	CAAGAACCAA	GGTGTGATA	TGAATGTTT	GAATAATTAT	GAAAATTAT	TTAAATTTGT	TAAATGTGAA	TATGTAATG
3D7								
RO33								
Palo Alto								
FCR3						.G.		
Wellcome						.G.		
D6								
T996								
T9102						.G.		
K1						.G.		
Dd2						.G.		
D10								
FCC2						.G.		
HB3						.G.		
7G8								
<i>P.reichenowi</i>						.A.A.		.C.

	170	180	190	200	210	220	230	240
PFL1385c	AACATACTTA	TGTTAAAGGT	AAGAAAGCTC	CTTCAGATCC	TCAATGTGCT	GATATAAAAG	AAGAATGCAA	AGAATTACTT
3D7								
RO33								
Palo Alto								
FCR3								
Wellcome								
D6								
T996								
T9102								
K1								
Dd2								
D10								
FCC2								
HB3								
7G8								
<i>P.reichenowi</i>			.GC.T AC.			.C.		

	250	260	270	280	290	300	310	320
PFL1385c	AAGGAAAAAC	AATACACAGA	TTCAGTTACA	TATTTAATGG	ATGGTTTAA	ATCAGCAAAT	AATTCAGCAA	ATAAT----
3D7								-----
RO33								-----
Palo Alto								-----
FCR3								-----
Wellcome								-----
D6								TCAGC
T996								-----
T9102								-----
K1								-----
Dd2								-----
D10								-----
FCC2								-----
HB3								-----
7G8								-----
<i>P.reichenowi</i>	.A.	.G		.A.			.G.T.A.	-----

	330	340	350	360	370	380	390	400
PFL1385c	GGT	AAAAAAATA	ACGCTGAAGA	AATGAAAAAT	TTAGTAAATT	TCTTACAATC	TCATAAGAAA	TTAATTTAAAG
3D7
RO33
Palo Alto
FCR3
Wellcome
D6	AAATAAT	.....	.....	.....	.....	.....	.....	.....
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	-----A	.....	.....	.....	.....	.....	.....	.....

	410	420	430	440	450	460	470	480
PFL1385c	CATTAAAAA	GAATATTGAA	AGTATACAAA	ATAAGAAAACA	CTTAATTTAT	AAAAACAAAT	CATATAATCC	ATTATTACTT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	G.....	.....	.....	.....T	.....G	.....	.....T	.....

	490	500	510	520	530	540	550	560
PFL1385c	TCTTGTGTTA	AAAAAATGAA	TATGTTAAAA	GAAAATGTTG	ACTATATTCA	AAAAAATCAA	AACTTATTTA	AAGAATTAAT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	A...T	.....	.....	.....	.....	.....G	.....	.....

	570	580	590	600	610	620	630	640
PFL1385c	GAATCAAAAA	GCTACCTACT	CTTTGTTAA	TACCAAAAAA	AAAATTATTI	CTTTAAAATC	ACAAGGTCAT	AAAAAAGAAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	G.....	T...A...CT	.....	.....G	.....	.....C	.....	.....

	650	660	670	680	690	700	710	720
PFL1385c	CCTCACAAA	TCAAAATGAA	AATAACGACA	ATCAAAAATA	TCAAGAAGTT	AATGATGAAG	ATGATGTAAA	TGATGAAGAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>G.....	.....	.....	.....	.....A..A..T.....	.....

	730	740	750	760	770	780	790	800
PFL1385c	GATACAAAG	ATGACGAAGA	TACTAACGAT	GAAGAAGATA	CAAACGATGA	CGAAGATACA	AATGATGACG	AAGATACTAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	..AGTT..T	..A.....	AGT..T..	.....G	TT..T.....	A.....GTT	.....A	.....GT..

	810	820	830	840	850	860	870	880
PFL1385c	CGATGAAGAA	GATACTAACG	ACGAAGAAGA	TCATGAAAAT	AATAATGCTA	CAGCATACGA	ATTAGGTATC	GTCCCAGTTA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	T.....	TTA..T.	.T.....	.....G..	..A.....	.....GT	.....	.....

	890	900	910	920	930	940	950	960
PFL1385c	ACGATGTGTT	AAATGTTAAT	ATGAAAAATA	TGATAACAGG	AAATAATTTT	ATGGATGTTG	TTAAAAATAC	ATTAGCTCAA
3D7
RO33
Palo Alto
FCR3G..	.....
WellcomeG..	.....
D6
T996
T9102G..	.....
K1G..	.....
Dd2G..	.....
D10G..	.....
FCC2G..	.....
HB3
7G8
<i>P.reichenowi</i>	.T..A..	.....G..	.....	.....	.....	.....	.....G..	T.....

	970	980	990	1000	1010	1020	1030	1040
PFL1385c	TCAGGTGGAT	TAGGAAGTAA	TGATTTAATA	AATTTCTTAA	ATCAAGGTAA	AGAAATAGGA	GAAAATTAT	TAAACATAAC
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	A.....	.....	.....GT	.....	.....	.....	.....	.....

	1050	1060	1070	1080	1090	1100	1110	1120
PFL1385c	AAAGATGAAC	TTGGGAGATA	AGAATAATCT	TGAAAGTTTT	CCTTAGATG	AATTAATAT	GTTAAAAGAT	AATTTAATAA
3D7
RO33
Palo Alto
FCR3C	.....	.....	.....
WellcomeC	.....	.....	.....
D6
T996
T9102C	.....	.....	.....
K1C	.....	.....	.....
Dd2C	.....	.....	.....
D10C	.....	.....	.....
FCC2
HB3
7G8
<i>P.reichenowi</i>	T.....	.....C	.....C	.....	C.....	.....T

	1130	1140	1150	1160	1170	1180	1190	1200
PFL1385c	ACTATGAATT	CATATTAGAT	AATTTGAAA	CAAGTGTTTT	AAATAAATTA	AAAGATTAT	TATTAAGATT	ATTATACAAA
3D7
RO33
Palo Alto
FCR3A	.....	.....	.....	.....	.....	.....
WellcomeA	.....	.....	.....	.....	.....	.....
D6
T996
T9102A	.....	.....	.....	.....	.....	.....
K1A	.....	.....	.....	.....	.....	.....
Dd2A	.....	.....	.....	.....	.....	.....
D10A	.....	.....	.....	.....	.....	.....
FCC2A	.....	.....	.....	.....	.....	.....
HB3
7G8
<i>P.reichenowi</i>	C.....	.....A	.....	.....	.....	.....	.....	.....

	1210	1220	1230	1240	1250	1260	1270	1280
PFL1385c	GCATATGTAT	CATATAAGAA	AAGAAAAGCT	CAAGAAAAAG	GATTACCAGA	ACCTACTGTT	ACTAATGAAG	AATATGTTGA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>G	.....	.....	.....	.....	.....

	1290	1300	1310	1320	1330	1340	1350	1360
PFL1385c	AGAATTAAG	AAAGGTATTC	TAGATATGGG	TATCAAATTA	TTATTTAGTA	AAGTTAAAAG	CCTATTAATA	AAATTAATAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	T.....	.....	.....	T.....TC	.....

	1370	1380	1390	1400	1410	1420	1430	1440
PFL1385c	ATAAAATATT	CCCTAAGAAA	AAAGAAGATA	ATCAAGCAGT	AGATACCAA	AGTATGGAAG	AACCCAAAGT	TAAAGCACAA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3	C.....	.....	.....	.....
7G8
<i>P.reichenowi</i>	C.A.	.....	A.....	A.CCA.G.	A.T	.....

	1450	1460	1470	1480	1490	1500	1510	1520
PFL1385c	CCAGCTCTTA	GAGGTGTTGA	ACCAACGGAA	GATTCTAATA	TTATGAACAG	TATTAATAAT	GTTATGGATG	AAATTGATTT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	G.....	T.....	.....	.....	.....	.....	.....

	1530	1540	1550	1560	1570	1580	1590	1600
PFL1385c	CTTTGAAAAA	GAATTAATCG	AAAATAATAA	TACACCTAAT	GTTGTACCAC	CAACTCAATC	AAAAAAAAAA	AACAAAAATG
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	C ---	.....

	1610	1620	1630	1640	1650	1660	1670	1680
PFL1385c	AAACTGTATC	TGGTATGGAT	GAAAATTTTG	ATAATCATCC	TGAAAATTAT	TTTAAAGAAG	AATATTATTA	TGATGAAAAAT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1T.....	.....
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	T.....	A.....AG.	.....	.....	.....	.....	.....	.....

	1690	1700	1710	1720	1730	1740	1750	1760
PFL1385c	GATGATATGG	AAGTAAAAGT	TAAAAAATA	GGTGTACAT	TAAAAAAT	TGAACCACT	AAAAATGGAA	ATGTTAGTGA
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>T.....	.....C.....	.....	.....	.....	.....	.....C.....

	1770	1780	1790	1800	1810	1820	1830	1840
PFL1385c	AACCATTAAA	TTGATTCATT	TAGGAAATA	AGATAAAAA	CACATTGAAG	CTATAAACAA	CGATATTCAA	ATTATTAAAC
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>TG.....	.....	.....	.....A.....	.....	.....	.....G.....

	1850	1860	1870	1880	1890	1900	1910	1920
PFL1385c	AAGAATTACA	AGCTATTTAT	AATGAACTTA	TGAATTATAC	AAATGGAAAC	AAAAATATTC	AACAAATATT	TCAACAAAAT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>C.....	.....	.....CG.....	.....	.....C.....

PFB0340c -SERA5

	10	20	30	40	50	60	70	80

PFB0340c	ATGAAGTCAT	ATATTTCCTT	GTTTTTCATA	TTGTGTGTTA	TATTTAACAA	AAATGTTATA	AAATGTACAG	GA-----
3D7								
RO33				G.G....	.....	.....	.....	-----
Palo Alto								
FCR3								
Wellcome								
D6								
T996								
T9102				G.....	.....	.....	.....	-----
K1								
Dd2						..A...	C.G-----	-----
D10								
FCC2				G.G....	.....	.....	.....	-----
HB3								
7G8								
P.reichenowi								..GGAAGTAC

	90	100	110	120	130	140	150	160

PFB0340c								
3D7								
RO33								
Palo Alto								
FCR3								
Wellcome								
D6								
T996								
T9102								
K1								
Dd2								
D10								
FCC2								
HB3								
7G8								
P.reichenowi								ATCAACAAGT CCCGAACAAA GTAATCCTGG AAGTACAAGA GGAAGCACAC CATCAAGTTC AGTAGAAAGT AATTCTGTAA

	170	180	190	200	210	220	230	240

PFB0340c								
3D7								
RO33								
Palo Alto								
FCR3								
Wellcome								
D6								
T996								
T9102								
K1								
Dd2								
D10								
FCC2								
HB3								
7G8								
P.reichenowi								GTACAGGAGG AAGTACATCA TCAAGTCCG TACAAAGTAA TTCTGTAAGT ACAGGAGAAA ATTCACCATC AAGTTCGGTA

	250	260	270	280	290	300	310	320

PFB0340c								GA
3D7								
RO33								-----A.
Palo Alto								
FCR3								
Wellcome								
D6								
T996								
T9102								-----..
K1								
Dd2								
D10								
FCC2								-----A.
HB3								
7G8								
P.reichenowi								GAAAGTAATT CTGGAAGTAC AGGAGAAAGT TCACCACCAA GTTCCGTAGA AAGTAATTCT GGAAGTACAG GACAAACT--

	650	660	670	680	690	700	710	720
PFB0340c	TTACTGGTCC	ATGTAACGAA	AATTCATAA	TGTTCTTAGT	TCCTCATATA	TATATTGATG	TTGATACAGA	AGATACTAAT
3D7
RO33
Palo Alto
FCR3
Wellcome
D6
T996
T9102
K1
Dd2
D10
FCC2
HB3
7G8
<i>P.reichenowi</i>	T

	730	740	750	760	770	780	790	800
PFB0340c	ATCGAATTAA	GAACAACATT	GAAAAAACA	AATAATGCAA	TATCATTGTA	ATCAAACAGT	GGTTCATTAG	AAAAAATAAA
3D7
RO33
Palo Alto
FCR3G	.....	.....	.....	.....	.....
WellcomeG	.....	.....	.....	.....	.....
D6
T996
T9102G	.....	.....	.....	.....	.....
K1
Dd2G	.....	.....	.....	.....	.....
D10G	.....	.....	.....	.....	.....
FCC2G	.....	.....	.....	.....	.....
HB3G	.....	.....	.....	.....	.....
7G8G	.....	.....	.....	.....	.....
<i>P.reichenowi</i>G	.G	T	.....	.G	.....

	810	820	830	840	850	860	870	880
PFB0340c	ATATGTAAAA	CTACCATCAA	ATGGTACAAC	TGGTGAACAA	GGTTC AAGTA	CGGGAACAGT	TAGAGGAGAT	ACAGAACCAA
3D7
RO33A..C	.....	.....	.....	.....T
Palo AltoT
FCR3	A...T	-----	-----	-----
Wellcome	A...T	-----	-----	-----
D6
T996T
T9102T
K1
Dd2T
D10	A...T	-----	-----	-----
FCC2
HB3
7G8
<i>P.reichenowi</i>A	.....	.A	AA..G.A	.A..G	.CA..A	GA..T

	890	900	910	920	930	940	950	960
PFB0340c	TTTCAGATTC	AAGCTCAAGT	TCAAGTTCAA	GCTCTAGTTC	AAGTTCAAGT	TCAAGTTCAA	GTTCTAGTTC	AAGTTCTAGT
3D7	.....	.....	.....	.....	.....	.....	.....	.....
RO33	.....	.....	.....T	TT.A	.....	.....T	.....A	.....
Palo Alto	.....	.....	.....	.....	.....C	.....T	.....C.A.C	-----
FCR3	-----	.....T	.....T	AT	.....	.....	.....	.....A
Wellcome	-----	.....T	.....T	AT	.....	.....	.....	.....A
D6	.....	.....	.....T	T.A	.....	.....T	.....A	.....
T996	.....	.....	.....	.....	.....C	.....	.....C	.....A
T9102	.....	.....	.....	.....	.....C	.....	.....C.A.C	-----
K1	.....	.....	.....	.....	.....	.....	.....	.....
Dd2	.....	.....	.....	.....	.....C	.....	.....C.A.C	-----
D10	-----	.....T	.....T	T.A	T	.....	.....	.....A
FCC2	.....G	.....	.....T	T.A	.....	.....T	.....A	.....A
HB3	.....	.....	.....T	T.A	.....	.....T	.....A	.....A
7G8	.....	.....	.....T	T.A	.....	.....T	.....A	.....A
<i>P.reichenowi</i>	G	.....C	.....	T.AGAAC	.....GA	.....C.G	.....A	.....A.C

	970	980	990	1000	1010	1020	1030	1040
PFB0340c	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|
3D7	TCAAGTTCA-	-----	-----	-----	-----	-----GAA	AGTCTTCTG	CTAATGGACC
RO33	.....A	GTTCAAGTTC	AAGTTCTAGT	TCAAGTTCA-	-----	-----	-----	-----
Palo Alto	-----	-----	-----	-----	-----	-----T.	.A..CC....	.....G.
FCR3	.....TA	GTTCAAGTTC	TAGTTCAAGT	TCA-----	-----	-----	-----	-----
Wellcome	.....TA	GTTCAAGTTC	TAGTTCAAGT	TCA-----	-----	-----	-----	-----
D6	.....TA	GTTCAAGTTC	A-----	-----	-----	-----	-----	-----
T996	..T.....A	GTTCTAGTTC	AAGTTCA--	-----	-----	-----	-----	-----
T9102	-----	-----	-----	-----	-----	-----T.	.A..CC....	.....G.
K1	-----	-----	-----	-----	-----	-----	-----	-----
Dd2	-----	-----	-----	-----	-----	-----T.	.A..CC....	.....G.
D10	.....A	GTTCTAGTTC	AAGTTCTAGT	TCAAGTTCAA	GTTCTAGTTC	AAGTTCA..	-----	-----
FCC2	..T.....A	GTTCTAGTTC	AAGTTCA--	-----	-----	-----	-----	-----
HB3	.....TA	GTTCAAGTTC	TAGTTCAAGT	TCA-----	-----	-----	-----	-----
7G8	..T.....A	GTTCTAGTTC	AAGTTCA--	-----	-----	-----	-----	-----
<i>P.reichenowi</i>	..C.....A	GTTCTAGTTC	TAGTTCAAGC	TCGAGTTCAG	GTTCA-----	-----T.	.A.ACC....	.....G.

	1050	1060	1070	1080	1090	1100	1110	1120
PFB0340c	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|
3D7	TGATTCCCCT	ACTGTTAAAC	CGCCAAGAAA	TTTACAAAAT	ATATGTGAAA	CTGGAAAAAA	CTTCAAGTTG	GTAGTATATA
RO33	.....	.....	.....	.....	.....	.....	.....	.....
Palo Alto	..G...TA..	C...A.GC.A	A.AA..A..	.....	.....	.....	.....	.....
FCR3	.....	.....	.....	.....	.....	.....	.....	.....
Wellcome	.....	.....	.....	.....	.....	.....	.....	.....
D6	.....	.....	.....	.....	.....	.....	.....	.....
T996	.....	.....	.....	.....	.....	.....	.....	.....
T9102	..G...TA..	C...A.GC.A	A.AA..A..	.....	.....	.....	.....	.....
K1	.....	C.....	.....	.....	.....	.....	.....	.....
Dd2	..G...TA..	C...A.GC.A	A.AA..A..	.....	.....	.....	.....	.....
D10	.....	.....	.....	.....	.....	.....	.....	.....
FCC2	.....	.....	.....	.....	.....	.....	.....	.....
HB3	.....	.....	.....	.....	.....	.....	.....	.....
7G8	.....	.....	.....	.....	.....	.....	.....	.....
<i>P.reichenowi</i>	..AG...AA.	C...A.GC.A	A.AA.....	...A.T..	.....C.C	.....C.G.	...A..T	.....

	1130	1140	1150	1160	1170	1180	1190	1200
PFB0340c	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|
3D7	TTAAGGAGAA	TACATTAATA	CTTAAATGGA	AAGTATACGG	AGAAACAAA	GATACTACTG	AAAATAACAA	AGTTGATGTA
RO33
Palo Alto
FCR3	A.....	.....	.....	.....	.....	.....	.....
Wellcome	A.....	.....	.....	.....	.....	.....	.....
D6
T996
T9102	A.....	.....	.....	.....	.....	.....	.....
K1
Dd2	A.....	.....	.....	.....	.....	.....	.....
D10	A.....	.....	.....	.....	.....	.....	.....
FCC2	A.....	.....	.....	.....	.....	.....	.....
HB3	A.....	.....	.....	.....	.....	.....	.....
7G8	A.....	.....	.....	.....	.....	.....	.....
<i>P.reichenowi</i>T.A	..G.C...C	.....G.	.....	.....

	1210	1220	1230	1240	1250	1260
PFB0340c	....|....|	....|....|	....|....|	....|....|	....|....|	....|....|
3D7	AGAAAGTATT	TGATAAATGA	AAAGGAAACC	CCATTTACTA	ATATACTAAT	ACATGCGTAT
RO33
Palo Alto
FCR3	G.....	.....	.....
Wellcome	G.....	.....	.....
D6
T996
T9102C.....	.....
K1
Dd2
D10
FCC2
HB3	G.....	.....	.....
7G8	G.....	.....	.....
<i>P.reichenowi</i>	G.....	G.....	.....