i e e e e e e e e e e e e e e e e e e e												
		10	20	30	40	50	60	70	80	90	100	110
		CATACCCACGCC										
F08-R114508-U499UHE170-4-4-SEQ7R.ab1(1>765) H11-R114508-U499UHE170-4-4-SEQ7R.ab1(1>754)	←	CATACCCACGCC								CAGCAACCGC <i>A</i>		
		120	130	140	150	160	170	180	190	200	210	220
		TGCCGGCCACGA'										GAAAGGG
F08-R114508-U499UHE170-4-4-SEQ7R.ab1(1>765) H11-R114508-U499UHE170-4-4-SEQ7R.ab1(1>754) U499UHE170-4.seq(1>4424)		TGCCGGCCACGA' TGCCGGCCACGA'								GGTTTCCCTCT		GAAAGGG
		230 GGCCCAGGGCGC'			260 GTGAGGGTAAG			290 CAGGACCATTO		310 GCCTCTTAGGG	320 LLLLL GAGGTGAGG	330 TATATCG
F08-R114508-U499UHE170-4-4-SEQ7R.ab1(1>765) H11-R114508-U499UHE170-4-4-SEQ7R.ab1(1>754) U499UHE170-4.seq(1>4424)	←	GGCCCAGGGCGC' GGCCCAGGGCGC'	TGGCAACATG	TCCTTACCC	GTGAGGGTAAG	ATCGCAGTCT	GTTAGGACTG	CAGGACCATTC	CTGCTTTCTG	GCCTCTTAGGG	GAGGTGAGG'	TATATCG
		340	350	360	370	380	390	400	410	420	430	440
		CAATGATCCATC										
F08-R114508-U499UHE170-4-4-SEQ7R.ab1(1>765) H11-R114508-U499UHE170-4-4-SEQ7R.ab1(1>754) U499UHE170-4.seq(1>4424)	←	CAATGATCCATCO CAATGATCCATCO CAATGATCCATCO	GGGAACGGTT	AATACCGCC	CGAAGGAAATT	GCGTTGGTGT	TTTGACCAGC	AGTTATGCTGA	ATCTTCATTTG	GACATGCATCG	GAATAGATGT	GTCGAAA
		450	460	470	480	490	500	510	520	530	540	550
		AATGATAACACC										
F08-R114508-U499UHE170-4-4-SEQ7R.ab1(1>765) H11-R114508-U499UHE170-4-4-SEQ7R.ab1(1>754) U499UHE170-4.seq(1>4424)	←	AATGATAACACCA AATGATAACACCA AATGATAACACCA	AACTATCTCA	ACTCCACAC'	raggagggtat(CAGATCACTG	SATACAGAGAG'	TCATCCTGAAT	GGTTACGTCG	GCCGTAAGGGG <i>A</i>	CGTACCGTG	GGGATAT
		560 TGGTGGACCCTT								640 LLLLL GAGTTTGAACCG		660 LLLLL TATACGT
F08-R114508-U499UHE170-4-4-SEQ7R.ab1(1>765) H11-R114508-U499UHE170-4-4-SEQ7R.ab1(1>754) U499UHE170-4.seq(1>4424)	←	TGGTGGACCCTT' TGGTGGACCCTT'	TAGGACGGAA	AAGCGCTTT	GCCAAGTTTGG(CCAAGGCAGC	TGTTCGTCCT	TTAGGCAGTGG	GAGCCGACCG	GAGTTTGAACCG	GCCGGAAGG'	TATACGT
		670	680	690	700	710	720	730	740	750	760	770
		CCCAGAATTCAT										
F08-R114508-U499UHE170-4-4-SEQ7R.ab1(1>765) H11-R114508-U499UHE170-4-4-SEQ7R.ab1(1>754) U499UHE170-4.seq(1>4424) H10-R114508-U499UHE170-4-4-SEQ6R.ab1(1>750)	←	CCCAGAATTCATA CCCAGAATTCATA CCCAGAATTCATA	ATTCTGGTCC	GTATTTGCC'	TTATACTCCTT	ACTGGCTTGG	CTGGCCCGCG2	ATGCCGGAACC ATGCCGGAACC	CTTCTAGCAAT CTTCTAGCAAT	GATTCGCTAGA	TGAA TGAATACGG	CACAACG

	780 790 800 810 820 830 840 850 860 870 880
	GCTATAGCCAGGTGCTCCCCCTCTAATCCTTCCGTCGATCTAACCGTAGCTATCGGTGAGATCATCCACGAGGGTATTCCAAAACTCGTGGGTGG
U499UHE170-4.seq(1>4424) H10-R114508-U499UHE170-4-4-SEQ6R.ab1(1>750)	→ GCTATAGCCAGGTGCTCCCCCTCTAATCCTTCCGTCGATCTAACCGTAGCTATCGGTGAGATCATCCACGAGGGTATTCCAAAACTCGTGGGTGG
	890 900 910 920 930 940 950 960 970 980 990
	${\tt GCGTTCTCACTGGCCGCGAACGCCGACAGGCGTTGGGCCATGAGTATCTCAACGTTGAGTTCGGTTGGAAACCTTTTATCAATGACCTTCGCAATTTTGCGAAGGCTACCTTCGCAATTTTGCGAAGGTACCTTCGCAATTTTGCGAAGGTACCTTCAACGTTGAGTACCTTCAACGTTGGAAGCTTTTTTTACAATGACCTTCAACGTTGAGTACCTTCAACGTTGAGTACCTTCAACGTTTGGAAACCTTTTTATCAATGACCTTCGCAATTTTTGCGAAGGCTACAAGGTACAACGTTACAACGTTACAACGTTACAACGTTACAACAACAACAACAACAACAACAACAACAACAACAAC$
U499UHE170-4.seq(1>4424) H10-R114508-U499UHE170-4-4-SEQ6R.ab1(1>750)	→ GCGTTCTCTCACTGGCCGCGAACGCCGACAGGCGTTGGGCCATGAGTATCTCAACGTTGAGTTCGGTTGGAAACCTTTTATCAATGACCTTCGCAATTTTGCGAAGGCTA ← GCGTTCTCTCACTGGCCGCGAACGCCGACAGGCGTTGGGCCATGAGTATCTCAACGTTGAGTTCGGTTGGAAACCTTTTATCAATGACCTTCGCAATTTTGCGAAGGCTA
	1000 1010 1020 1030 1040 1050 1060 1070 1080 1090 1100
	TTGTTGATGCTGATAGTATCTTGAAGAACTATCAGCGCAACAGTGGTAAAATGGTTCGACGGTCGTATGACTTCCCAGAAGAGAGAG
U499UHE170-4.seq(1>4424) H10-R114508-U499UHE170-4-4-SEQ6R.ab1(1>750)	TTGTTGATGCTGATAGTATCTTGAAGAACTATCAGCGCAACAGTGGTAAAATGGTTCGACGGTCGTATGACTTCCCAGAAGAGAGAG
	1110 1120 1130 1140 1150 1160 1170 1180 1190 1200 1210
	CCACTCGCGTCACCTTGGTTTTCACCAAGTGCGAGTGAGT
U499UHE170-4.seq(1>4424) H10-R114508-U499UHE170-4-4-SEQ6R.ab1(1>750)	→ CCACTCGCGTCACCTTGGTTTTCACCAAGTGCGAGTGAGT
	1220 1230 1240 1250 1260 1270 1280 1290 1300 1310 1320
	TCGCGGTGCGTTTACATACTATGTACCTCCGGCTAACAGCCTGAGGAATAGTATGGCGCGCGC
U499UHE170-4.seq(1>4424) H10-R114508-U499UHE170-4-4-SEQ6R.ab1(1>750)	TCGCGGTGCGTTTACATACTATGTACCTCCGGCTAACAGCCTGAGGAATAGTATGGCGCGCGC
	1330 1340 1350 1360 1370 1380 1390 1400 1410 1420 1430 GTCTCTGGAACCTTGCTCCTTGGAGCTGGCTGTCGATTGGTTTTTCAATACAGGCGACTTATTGTCGAACTGGACTGATTGGCGAACTGACAACCAGGTGTTGGTGTAT
U499UHE170-4.seq(1>4424)	→ GTCTCTGGAACCTTGCTCCTTGGAGCTGGCTGTCGATTGGTTTTTCAATACAGGCGACCTTATTGTCGAACTGGACTGATTGGCAACCAGGTGTTGGTGTAT
H10-R114508-U499UHE170-4-4-SEQ6R.ab1(1>750)	← GTCTCTGGAACCTTGCTCCTTGGAGCTGGCTGTCGATTGGTTTTTCAATACAGGCGACTTATTGTCGAACTGGACTGATTGGGCAATTGACAACCAGGTGTTGGTGTAT
	1440 1450 1460 1470 1480 1490 1500 1510 1520 1530 1540 GGGTATGTCATGGAACACAAACGTGTTCAGACAACCTATACTTTTGCTGGTAATACCGGCCTTTTCGGCGGTAGCCAGCC
WAOOMITTEO A(1, 4404)	
U499UHE170-4.seq(1>4424) H10-R114508-U499UHE170-4-4-SEQ6R.ab1(1>750) H09-R114508-U499UHE170-4-4-SEQ5R.ab1(1>754)	→ GGGTATGTCATGGAACACAAACGTGTTCAGACAACCTATACTTTTGCTGGTAATACCGGCCTTTTCGGCGGTAGCCAGCC
	1550 1560 1570 1580 1590 1600 1610 1620 1630 1640 1650
	GGTTAGACGTCAAGCAACACCGTATGGTTTTGGTCTTCAGTGGGACGACTTGTCGGCCCGCCAGAAGACGATTATCGCTGCTCTCGGCATCAGCCGAAAGAAGTGATAGA
U499UHE170-4.seq(1>4424) H09-R114508-U499UHE170-4-4-SEQ5R.ab1(1>754)	→ GGTTAGACGTCAAGCAACACCGTATGGTTTTGGTCTTCAGTGGGACGACTTGTCGGCCCAGAAGAAGACGATTATCGCTGCTCTCGGCATCAGCCGAAAGAAGTGATAGA ← GGTTAGACGTCAAGCAACACCGTATGGTTTTGGTCTTCAGTGGGACGACTTGTCGGCCCGCCAGAAGAAGACGATTATCGCTGCTCTCGGCATCAGCCGAAAGAAGTGATAGA

1 Toject. 0400011E170 4.0QD Contag 1	
	1660 1670 1680 1690 1700 1710 1720 1730 1740 1750 1760
	$\tt CGTACCTGCTAGCGTTTCAACGCCAATAGGGAGTCTAACCGGGCTCCTAGGAGTGATGCTCATGTCATTCACTGACCCGCTCTCAGTCGTCATTTCGGGTACCACTACGC$
U499UHE170-4.seq(1>4424) H09-R114508-U499UHE170-4-4-SEQ5R.ab1(1>754)	→ CGTACCTGCTAGCGTTTCAACGCCAATAGGGAGTCTAACCGGGCTCCTAGGAGTGATGCTCATGTCATTCACTGACCCGCTCTCAGTCGTCATTTCGGGTACCACTACGC ← CGTACCTGCTAGCGTTTCAACGCCAATAGGGAGTCTAACCGGGCTCCTAGGAGTGATGCTCATGTCATTCACTGACCCGCTCTCAGTCGTCATTTCGGGTACCACTACGC
	1770 1780 1790 1800 1810 1820 1830 1840 1850 1860 1870 CGCTCCCACGCGTAAGCGTTGGGGACGATCGCAGTGAGTACGCGACTGACGCAGGCTCATCCTCTTGACCGCCTCCCATGACTATGGGAAGCGGACGAGGAGAGTCCTG
U499UHE170-4.seq(1>4424)	→ CGCTCCCACGCGTAAGCGTTGGGGACGATCGCAGTGAGTACGCGAGTGGCGACGGACTCATCCTCTTGACCGCCTCCCATGACTATGGGAAGCGGACGAGGAGAGTCCTG
H09-R114508-U499UHE170-4-4-SEQ5R.ab1(1>754)	← CGCTCCCACGCGTAAGCGTTGGGGACGATCGCAGTGAGTACGCGAGTGGCGACGGACTCATCCTCTTGACCGCCTCCCATGACTATGGGAAGCGGACGAGGAGAGTCCTG 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970 1980
	CGGATCGACACTTCGAAGTTGGCAGCGGACCCTTTCAAGCCCGCTGAGAATGTCAGAGTGTCCATGTCAAACTACATGGTCTTTGACCTTCCGCCTGCCGGGTATAACCC
U499UHE170-4.seq(1>4424) H09-R114508-U499UHE170-4-4-SEQ5R.ab1(1>754) H08-R114508-U499UHE170-4-4-SEQ4R.ab1(1>756)	→ CGGATCGACACTTCGAAGTTGGCAGCGGACCCTTTCAAGCCCGCTGAGAATGTCAGAGTGTCCATGTCAAACTACATGGTCTTTGACCTTCCGCCTGCCGGGTATAACCC ← CGGATCGACACTTCGAAGTTGGCAGCGGACCCTTTCAAGCCCGCTGAGAATGTCAGAGTGTCCATGTCAAACTACATGGTCTTTGACCTTCCGCCTGCCGGGTATAACCC TGGTCTTTGACCTTCCGCCTGCCGGGTATAACCC
	1990 2000 2010 2020 2030 2040 2050 2060 2070 2080 2090
	GGCCGAGGCCCTTGCGGTTTACACAGGATTCAAAACCCTGTTTACCGCGACTTCGGACGCGATGATCGTTAAGCTCCTTGGCGGCGAGTCATAGAGCGGGAAGAACTCGA
U499UHE170-4.seq(1>4424) H09-R114508-U499UHE170-4-4-SEQ5R.ab1(1>754) H08-R114508-U499UHE170-4-4-SEQ4R.ab1(1>756)	→ GGCCGAGGCCCTTGCGGTTTACACAGGATTCAAAACCCTGTTTACCGCGACTTCGGACGCGATGATCGTTAAGCTCCTTGGCGGCGAGTCATAGAGCGGGAAGAACTCGA ← GGCCGAGGCCCTTGCGGTTTACACAGGATTCAAAACCCTGTTTACCGCGACTTCGGACGCGATGATCGTTAAGCTCCTTGGCGGCGAGTCATAGAGCGGGAAGAACTCGA ← GGCCGAGGCCCTTGCGGTTTACACAGGATTCAAAACCCTGTTTACCGCGACTTCGGACGCGATGATCGTTAAGCTCCTTGGCGGCGAGTCATAGAGCGGGAAGAACTCGA
	2100 2110 2120 2130 2140 2150 2160 2170 2180 2190 2200
	ACCGGCTAAAACCGGGGGAGAGTCACCCGCCTCTTGGCTTGCATGCCTTTGAGCTTACTTCACCGTGTCACCGGATAGTACTGGCCCTCGAGAAGAGTCCCGACCAAATCGCTGTCACCGGATAGTACTGGCCCTCGAGAAGAGTCCCGACCAAATCGCTGTCACCGGATAGTACTGGCCCTCGAGAAGAGTCCCGACCAAATCGCTGTCACCGGATAGTACTGGCCCTCGAGAAGAGTCCCGACCAAATCGCTGTCACCGGATAGTACTGGCCCTCGAGAAGAGTCCCGACCAAATCGCTGTCACCGGATAGTACTGGCCCTCGAGAAGAGTCCCGACCAAATCGCTGTCACCGGATAGTACTGGCCCTCGAGAAGAGTCCCGACCAAATCGCTGTCACCGGATAGTACTGGCCTTCGAGAAGAGTCCCGACCAAATCGCTGACAAATCGAAGAGAGTCCCGACCAAATCGAAGAGAGAG
U499UHE170-4.seq(1>4424) H09-R114508-U499UHE170-4-4-SEQ5R.ab1(1>754) H08-R114508-U499UHE170-4-4-SEQ4R.ab1(1>756)	 → ACCGGCTAAAACCGGGGAGAGTCACCCGCCTCTTGGCTTGCATGCCTTTGAGCTTACTTCACCGTGTCACCGGATAGTACTGGCCCTCGAGAAGAGTCCCGACCAAATCG ← ACCGGCTAAAACCGGGGAGAGTCACCCGCCTCTTGGCTTGCATGCCTTTGAGCTTACTTCACCGTGTCACCGGATAGTACTGGCCCTCGAGAAGAG ← ACCGGCTAAAACCGGGGAGAGTCACCCGCCTCTTGGCTTGCATGCCTTTGAGCTTACTTCACCGTGTCACCGGATAGTACTGGCCCTCGAGAAGAGTCCCGACCAAATCG
	2210 2220 2230 2240 2250 2260 2270 2280 2290 2300 2310 GGACTGGACTCCGGGTCAGATGCGTTCTCCAAGAAGACATTCGTCTCCTGGGCGACGCGGTACTGATCACGATCCGCATACTACCTTCACTAAGAAATTCTTAGTGATTG
U499UHE170-4.seq(1>4424) H08-R114508-U499UHE170-4-4-SEQ4R.ab1(1>756)	→ GGACTGGACTCCGGGTCAGATGCGTTCTCCAAGAAGACATTCGTCTCCTGGGCGACGCGGTACTGATCACGATCCGCATACTACCTTCACTAAGAAATTCTTAGTGATTG ← GGACTGGACTCCGGGTCAGATGCGTTCTCCAAGAAGACATTCGTCTCCTGGGCGACGCGGTACTGATCACGATCCGCATACTACCTTCACTAAGAAATTCTTAGTGATTG
	2320 2330 2340 2350 2360 2370 2380 2390 2400 2410 2420 CAGTTGCGGTGATCAATGCCATTTATCTGGTAAGTGAACTCTTCTTAGGCTTGCATCATGTATGCTAGCCGAAGAGTTGTGAACTCTAACTTTGATGGGTAGGGACCTATC
U499UHE170-4.seq(1>4424) H08-R114508-U499UHE170-4-4-SEQ4R.ab1(1>756)	→ CAGTTGCGGTGATCAATGCCATTTATCTGGTAAGTGAACTCTTCTTAGGCTTGCATCATGTATGCTAGCCGAAGAGTTGTGAACTCAACTTTGATGGGTAGGGACCTATC ← CAGTTGCGGTGATCAATGCCATTTATCTGGTAAGTGAACTCTTCTTAGGCTTGCATCATGTATGCTAGCCGAAGAGTTGTGAACTCAACTTTGATGGGTAGGGACCTATC
	2430 2440 2450 2460 2470 2480 2490 2500 2510 2520 2530 AAGGCATTGGAAAGTTTCGTACTTTTTTTTTTTTTTTT
	→ AAGGCATTGGAAAGTTTCGTACTTTCTTTTTGCCTGATTGGCCCTATTTCATCTCAGTTTGAGCTAGACGACAGAGCTAGGGATAGCCACCTCTAATAAGGAGGGACTATG
H08-R114508-U499UHE170-4-4-SEQ4R.ab1(1>756)	← AAGGCATTGGAAAGTTTCGTACTTTTTTGCCTGATTGGCCCTATTTCATCTCAGTTTGAGCTAGACGACAGAGCTAGGGATAGCCACCTCTAATAAGGAGGGGACTATG

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	2540 2550 2560 2570 2580 2590 2600 2610 2620 2630 2640
	AAAAGCCTGACGTCACTCTGGTCCTGCATCGCACAAGAAATGGCGATGCGATGTTGCACTAGCGCCACTCTCGACATAAAAACTGTCGAGAGTCGGGTTGAACACGAGGG
U499UHE170-4.seq(1>4424) H08-R114508-U499UHE170-4-4-SEQ4R.ab1(1>756) H07-R114508-U499UHE170-4-4-SEQ3R.ab1(1>754)	→ AAAAGCCTGACGTCACTCTGGTCCTGCATCGCACAAGAAATGGCGATGCGATGTTGCACTAGCGCCACTCTCGACATAAAAACTGTCGAGAGTCGGGTTGAACACGAGGG
	2650 2660 2670 2680 2690 2700 2710 2720 2730 2740 2750
	${\tt GTTATCGTTTTTAGCGATAACCCTGGCAGACTATGGAAAAGCCATCCAAAAATGGCTGGACCAAGGTCATGTCGCCCCTTGGGACGCTCCGGGCTTTAAAAAAGGCTCCGGGCTCGGGCTCGGGCTCGGGCTCGGGCTCGGGCTCGGGCTCGGGCTCGGGCTCGGGCTCCGGGCTGGGGCTGGGGCTGGGGCTGGGGCGGGCTCGGGGCTGGGGGCTGGGGGCTGGGGGCTGGGGGG$
U499UHE170-4.seq(1>4424) H08-R114508-U499UHE170-4-4-SEQ4R.ab1(1>756) H07-R114508-U499UHE170-4-4-SEQ3R.ab1(1>754)	→ GTTATCGTTTTTAGCGATAACCCTGGCAGACTATGGAAAAGCCATCCAAAAATGGCTGGACCAAGGTCATGTCGCCCCTTGGGACGCTCCGGGCTTTAAAAAGGCTCCGG ← GTTATCGTTTTTAGCGATAACCCTGGCAGACTATGGAAAAGCCATCCAAAAATGGCTGGACC ← GTTATCGTTTTTAGCGATAACCCTGGCAGACTATGGAAAAGCCATCCAAAAATGGCTGGACCAAGGTCATGTCGCCCCTTGGGACGCTCCGGGCTTTAAAAAAGGCTCCGG
	2760 2770 2780 2790 2800 2810 2820 2830 2840 2850 2860
	$\tt GTCGTCTTACTGGTCTCCCTGCATTTCTGCAAGGTTTCCTTGGGCGTGTTTCGACCCTAGTAGTGGCACGCTATTGAATGAA$
U499UHE170-4.seq(1>4424) H07-R114508-U499UHE170-4-4-SEQ3R.ab1(1>754)	→ GTCGTCTTACTGGTCTCCCTGCATTTCTGCAAGGTTTCCTTGGGCGTGTTTCGACCCTAGTAGTGGCACGCTATTGAATGAA
	2870 2880 2890 2900 2910 2920 2930 2940 2950 2960 2970 CGTCAACTAACGTTGATGTTTAGCAAGATAGCCCTCTCGGAATCCTCCAGAAATGGTAGGACTCAACAGGTGGTAACACCTGTCCGCGAAAGGCTAGCGATGTCAGAGTA
U499UHE170-4.seq(1>4424) H07-R114508-U499UHE170-4-4-SEQ3R.ab1(1>754)	→ CGTCAACTAACGTTGATGTTTAGCAAGATAGCCCTCTCGGAATCCTCCAGAAATGGTAGGACTCAACAGGTGGTAACACCTGTCCGCGAAAGGCTAGCGATGTCAGAGTA ← CGTCAACTAACGTTGATGTTTAGCAAGATAGCCCTCTCGGAATCCTCCAGAAATGGTAGGACTCAACAGGTGGTAACACCTGTCCGCGAAAGGCTAGCGATGTCAGAGTA
	2980 2990 3000 3010 3020 3030 3040 3050 3060 3070 3080
	TGTTCAATGTGAGCAGGAGGTTAAGTTCTCGGACTCGATATTGGATCCAGACAATTTGTCTCGGTTCAAACGTGTCTCGAGAGTGCTTTATGGCGAGATGTTTGATTGGC
U499UHE170-4.seq(1>4424) H07-R114508-U499UHE170-4-4-SEQ3R.ab1(1>754)	→ TGTTCAATGTGAGCAGGAGGTTAAGTTCTCGGACTCGATATTGGATCCAGACAATTTGTCTCGGTTCAAACGTGTCTCGAGAGTGCTTTATGGCGAGATGTTTGATTGGC ← TGTTCAATGTGAGCAGGAGGTTAAGTTCTCGGACTCGATATTGGATCCAGACAATTTGTCTCGGTTCAAACGTGTCTCGAGAGTGCTTTATGGCGAGATGTTTGATTGGC
	3090 3100 3110 3120 3130 3140 3150 3160 3170 3180 3190
	${\tt TTGAGGAAACTCTTGCCACCAACCATCTGGTGCCGAAGCACGGCCCAGGCGCTGTTGCTGACCGACTTAGCAGTAATGCTAAGTGGGATCAGCAATCCTGGACCACCCGT}$
U499UHE170-4.seq(1>4424) H07-R114508-U499UHE170-4-4-SEQ3R.ab1(1>754)	→ TTGAGGAAACTCTTGCCACCAACCATCTGGTGCCGAAGCACGGCCCAGGCGCTGTTGCTGACCGACTTAGCAGTAATGCTAAGTGGGATCAGCAATCCTGGACCACCCGT TTGAGGAAACTCTTGCCACCAACCATCTGGTGCCGAAGCACGGCCCAGGCGCTGTTGCTGACCGACTTAGCAGTAATGCTAAGTGGGATCAGCAATCCTGGACCACCCGT
	3200 3210 3220 3230 3240 3250 3260 3270 3280 3290 3300
	CTTCAAAAGGTTTTCCCTTTTGAGGACTATTCTGCAGTGAACCGAAATTACGTTTCGGATCACTCTGAGCACTGTTTCAGTGCTTCTGCGACGATGTACTGTTATAGTAC
U499UHE170-4.seq(1>4424) H07-R114508-U499UHE170-4-4-SEQ3R.ab1(1>754) H06-R114508-U499UHE170-4-4-SEQ2R.ab1(1>756)	→ CTTCAAAAGGTTTTCCCTTTTGAGGACTATTCTGCAGTGAACCGAAATTACGTTTCGGATCACTCTGAGCACTGTTTCAGTGCTTCTGCGACGATGTACTGTTATAGTAC ← CTTCAAAAGGTTTTCCCTTTTGAGGACTATTCTGCAGTGAACCGAAATTACGTTTCGGATCACTCTGAGCACTGTTTCAGTGCTTCTGCGACGATGTACTGTTATAGTAC ← CTGAGCACTGTTTCAGTGCTTCTGCGACGATGTACTGTTATAGTAC
	3310 3320 3330 3340 3350 3360 3370 3380 3390 3400 3410
	TCAGTCGGCAGAGTATAACCTCCTCGAACCCGGCGCGCGAGATACCCGTTAGGGTTATCACGGTACCTAAGACGCTCAAAGCACCCCGAATCATTGCGATTGAGCCAACCT
U499UHE170-4.seq(1>4424) H07-R114508-U499UHE170-4-4-SEQ3R.ab1(1>754) H06-R114508-U499UHE170-4-4-SEQ2R.ab1(1>756)	→ TCAGTCGGCAGAGTATAACCTCCTCGAACCCGGCGCGAGATACCCGTTAGGGTTATCACGGTACCTAAGACGCTCAAAGCACCCCGAATCATTGCGATTGAGCCAACCT ← TCAGTCGGC ← TCAGTCGGCAGAGTATAACCTCCTCGAACCCGGCGCCGAGATACCCGTTAGGGTTATCACGGTACCTAAGACGCTCAAAGCACCCCGAATCATTGCGATTGAGCCAACCT

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	3420 3430 3440 3450 3460 3470 3480 3490 3500 3510 3520 GTATGCAATATATGCAGCAGGCGCTCTTTCGCTTGATTCATGATGGCTTGAAGAGGGTTTTACCCCCTCTCTGCCATGATCGGAATCGATGATCAGGAGCCCAACAGGGCT
U499UHE170-4.seq(1>4424) H06-R114508-U499UHE170-4-4-SEQ2R.ab1(1>756)	→ GTATGCAATATATGCAGCAGGCGCTCTTTCGCTTGATTCATGATGGCTTGAAGAGGGTTTTACCCCCTCTCTGCCATGATCGGAATCGATGATCAGGAGCCCAACAGGGCT
	3530 3540 3550 3560 3570 3580 3590 3600 3610 3620 3630 CTTGCTCGCGATGGATCCCTCAGCGGGGATCTTGCCACACCTCGATCTGAGTGAG
U499UHE170-4.seq(1>4424) H06-R114508-U499UHE170-4-4-SEQ2R.ab1(1>756)	→ CTTGCTCGCGATGGATCCCTCAGCGGGGATCTTGCCACACTCGATCTGAGTGAG
	3640 3650 3660 3670 3680 3690 3700 3710 3720 3730 3740 TTTGCTAGAGGCTGTCAAGCGACAAGGTCAAGGAAGGCTGACGTACCTGGTCACGGAGTTATCCGTTTGGCCAAGTTCGCGTCTATGGGTTCAGCTCTCTGCTTCCCGA
U499UHE170-4.seq(1>4424) H06-R114508-U499UHE170-4-4-SEQ2R.ab1(1>756)	→ TTTGCTAGAGGCTGTTCAAGCGACAAGGTCAAGGAAGGCTGACGTACCTGGTCACGGAGTTATCCGTTTGGCCAAGTTCGCGTCTATGGGTTCAGCTCTCTGCTTCCCGA ← TTTGCTAGAGGCTGTTCAAGCGACAAGGTCAAGGAAGGCTGACGTACCTGGTCACGGAGTTATCCGTTTTGGCCAAGTTCGCGTCTATGGGTTCAGCTCTCTGCTTCCCGA
	3750 3760 3770 3780 3790 3800 3810 3820 3830 3840 3850 TTGAGGCGATGGTCTTCTGACCGTCATCTTTAGCGGGATAGAAAGAA
U499UHE170-4.seq(1>4424) H06-R114508-U499UHE170-4-4-SEQ2R.ab1(1>756)	→ TTGAGGCGATGGTCTTCTTGACCGTCATCTTTAGCGGGATAGAAAGAGAAACTTAGCGTTCCGCTTTCTTCTGTAAGGGATGTCACTCCTTACAGTAGCAGGGTGCGTGTC ← TTGAGGCGATGGTCTTCTTGACCGTCATCTTTAGCGGGATAGAAAGAGAAACTTAGCGTTCCGCTTTCTTCTGTAAGGGATGTCACTCCTTACAGTAGCAGGGTGCGTGTC
	3860 3870 3880 3890 3900 3910 3920 3930 3940 3950 3960 TTTGGGGACGATTTGATCCTACCCAGAGACTATGTGCTGTCGTCGTTGATGAACTCTATACTTTTTGGGCATAGAGTTAACATCAGCAAGTCCTACTGGACCGGAAGGTT
U499UHE170-4.seq(1>4424) H06-R114508-U499UHE170-4-4-SEQ2R.ab1(1>756) F02-R114508-U499UHE170-4-2-SEQ1R.ab1(1>761) H05-R114508-U499UHE170-4-2-SEQ1R.ab1(1>757)	TTTGGGGACGATTTGATCGTACCCAGAGACTATGTGCTGTCCGTCGTTGATGAACTCTATACTTTTGGGCATAGAGTTAACATCAGCAAGTCCTACTGGACCGGAAGGTT TTTGGGGACGATTTGATCGTACCCAGAGACTATGTGCTGTCCGTCGTTGATGAACTCTATACTTTTGGGCATAGAGTTAACATCAGCAAGTCCTACTGGACCGGAAGGTT TTAACATCAGCAAGTCCTACTGGACCGGAAGGTT CATCAGCAAGTCCTACTGGACCGGAAGGTT
	3970 3980 3990 4000 4010 4020 4030 4040 4050 4060 4070 CAGGGAATCTTGCGGACGGGAGTATTATGATGGACATGACGTTAGTATCGTCAAGGTCCGTCAGAATCTTCCGACACGACGGCAGGACGCAGCTGGAGTTATCTCAGCTG
U499UHE170-4.seq(1>4424) H06-R114508-U499UHE170-4-4-SEQ2R.ab1(1>756) F02-R114508-U499UHE170-4-2-SEQ1R.ab1(1>761) H05-R114508-U499UHE170-4-2-SEQ1R.ab1(1>757)	 → CAGGGAATCTTGCGGACGGGAGTATTATGATGGACATGACGTTAGTATCGTCAAGGTCCGTCAGAATCTTCCGACACGACGGCAGGACGCAGCTGGAGTTATCTCAGCTG ← CAGGGAATCTTGCGGACGGGAGTATTATGATGGACATGACGTTAGTATCG ← CAGGGAATCTTGCGGACGGGAGTATTATGATGGACATGACGTTAGTATCGTCAAGGTCCGTCAGAATCTTCCGACACGACGGCAGGACGCAGCTGGAGTTATCTCAGCTG ← CAGGGAATCTTGCGGACGGGAGTATTATGATGGACATGACGTTAGTATCGTCAAGGTCCGTCAGAATCTTCCGACACGACGGCAGGACGCAGCTGGAGTTATCTCAGCTG ← CAGGGAATCTTGCGGACGGGAGGTATTATGATGGACATGACGTTAGTATCGTCAAGGTCCGTCAGAATCTTCCGACACGACGGCAGGACGCAGCTGGAGTTATCTCAGCTG
	4080 4090 4100 4110 4120 4130 4140 4150 4160 4170 4180 TATCTCTCAGAAACCAGCTTTTATTGGGCTGGTCTCTGGCAGGCGGCTGGTTGGATGATGATTTATTT
U499UHE170-4.seq(1>4424) F02-R114508-U499UHE170-4-2-SEQ1R.ab1(1>761) H05-R114508-U499UHE170-4-2-SEQ1R.ab1(1>757)	TATCTCTCAGAAACCAGCTTTATTGGGCTGGTCTCTGGCAGGCGGCTGGGTGGATGATAACTACTTGGAAGACCTGTTAAGGTTCTTTCCAAATGTTGCTCCAACCTCT TATCTCTCAGAAACCAGCTTTATTGGGCTGGTCTCTGGCAGGCGGCTGGGTGGATGATAACTACTTGGAAGACCTGTTAAGGTTCTTTCCAAATGTTGCTCCAACCTCT TATCTCTCAGAAACCAGCTTTATTGGGCTGGTCTCTGGCAGGCGGCTGGGTGGATGATAACTACTTGGAAGACCTGTTAAGGTTCTTTCCAAATGTTGCTCCAACCTCT TATCTCTCAGAAACCAGCTTTATTGGGCTGGTCTCTGGCAGGCGGCTGGGTGGATGGA
nos kilisoo oissonbiyo i z bhgik.ubi(is/s/)	4190 4200 4210 4220 4230 4240 4250 4260 4270 4280 4290

U499UHE170-4.seq(1>4424)

F02-R114508-U499UHE170-4-2-SEQ1R.ab1(1>761) H05-R114508-U499UHE170-4-2-SEQ1R.ab1(1>757)

