



P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malarise	25	88 253 t t t	9 2541 C C C C	2541 a t t t	2542 2 t t t t	543 25 t t t t	44 254	15 254 a a a a	6 2547 t t t c	7 2548 t t t	8 2549 t t t	2550 t t t t	2551 a a a a	2552 2 t t t t	553 25 t t t	554 25 a a a a	55 25 c 1 c 1 c 1	56 255 a a a a a	7 255 C C C C	8 2559 a t t	2560 8 8 8 8	2561 t t t	2562 a a a a a	2563 a a a a a	2564 : t t t	2565 2 8 8 8 8	566 25 c c c	667 25 a 1 a 1 a 1 a 1	58 256 t t c	2570 t t t t	2571 a a a a a	2572 a a a a a	2573 2 8 8 8 8	574 25 a 1 a 1 a 1	75 257 c c c	6 2577 a t t t	2578 : a a a a a	2579 25 a i a i a i	80 258 8 8 8 8 8 8	8 8 8 8 8	2583 a t t t	2584 t t t	2585 2 t t t	586 25 a i a i a i	87 258 a c a c a c a c	8 2581 a a a a	2590 c c c c	2591 2 t t t t	592 25 t s t s t s	93 2594 1 8 8 8 8 8 8 8	4 2595 t t t t	2596 25 a 1 a 1 a 1 a 1	97 t t t
P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	25	08 2599 t	9 2600 t t t t	2601 a a a a a	2602 2 a a a a a	603 26 8 8 8 8	04 260 8 8 8 8 8 8	15 2600 t t t	6 2607 t a a a a	2608 t t t	2609 C C C C	2610 t t t t	2611 a a a a a	2612 2	613 21 a a a a	514 26 t t t t	8 18 18 18 18 18 18 18 18 18 18 18 18 18	16 261 1 t 1 t 1 t	7 261 C C C C	8 2619 a a a a a	2620 t t t	2621 t t t t	2622 8 a a a	2623 a a a a t	2624	2625 2 c a a t	626 26 a a a a	527 26 t t t t t t	28 262 a a a a a	2630 c c c	2631 a a a a a	2632 t t t t	2633 2 c c c c	634 26 a s t s t s	35 263 8 8 t t t t t t t	6 2637 a a a a	2638 : a a a a a a a	t t t t t t t t t t	40 264 8 t 8 t 8 t 8 t	11 2642 t t t	2643 a a a a a	2644 t t t t	2645 2 t t t	646 26 8 a 1 a 1 a 2	47 264 c t t t t t	8 2649 a 8 a a a	2650 a a a a a	2651 2	652 26 a t a t a t	53 2654	4 2655 a a a a	2656 26 C C C C	67
P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	26	8 265 8 8 8 8	9 2660 t t t t	1 2661 t a t t	2662 2 t t t t	663 26 t t t t	64 266	65 266 c c c	6 2663 t a a a	7 2668 8 8 8 8 8 8	8 2669 8 8 8 8 8 8	2670 t t t	2671 8 8 8 8 8	2672 2 8 8 8 8	673 21 a t t t	574 26 8 8 8 8 8	75 26	76 267 t t t	7 267 t t t t	8 2679 a a a a a	2680 a a a a	2681 t t t t	2682 8 8 8 8	2683 t t t t	2684	2685 2 a a a a	686 26 t t t c	87 26 t t t t	88 268 t t t	2691 c c c c	2691 a a a a t	2692 8 8 8 8 8	2693 2 a a a a	694 26 c t t t t t	95 269 t t t	6 2697 a a a a	2698 : c c c c	2699 27 a ! a ! a !	00 270	1 2702 t t t	t 2703 t t t t	2704 a a a a a	2705 2 a a a a a	706 27 t t t t	07 270 a c a c a c a c	8 2701 t a a a a	2710 t t t t	2711 2 t t t t	712 27 a 1 a 1 a 1 a 1	13 2714	t 2715 t t t t	2716 27 t t t t t t	17 t t t
P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	27	8 271 8 8 8 8 8 8	9 2721 a a a a a	2721 c t t t	2722 1 c c c c c	723 27 c c c c	24 272	c c c c	6 2723 a a a a a	2728 t t t	t t t t	2730 t t t t t	2731 8 8 8 8 8	2732 2	733 2' a t t t	734 27 8 8 8 8 8	35 27 8 8 8 8 8	8 8 8 8 8 8 8	7 273 a a a a a	8 2731 t t t t	2740 c c c c	2741	2742 a t t t	2743 a a a a a	2744 : t t t t	2745 2 a t t a	746 21 t c t t t	t : t : t : t : t : t : t : t : t : t :	18 274 t t t	2751 a a a a a	t t t t	2752 c c c c c	2753 2 a a a a a	754 27 a 6 a 6 a 6 a 6	55 275 a a a a a	6 2757 t t t t	2758 : t c c c t	759 27 t t t t	60 276	t t t t t t t	c c t c t	2764 t t t t	2765 2 8 8 8 8 8	766 27 8 8 8 8	67 276	8 2761 t c t	2770 t t t t	2771 2 t t t t	7772 27 t s t s t s t s	73 2774 8 8 8 8 8 8 8 8	2775 a a a a	2776 27 c c c c	77
P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	27	0 c c c c c c	0 2781 C C C C	2781 t t t t	2782 2 8 8 8 8 8 8	783 27 a a a a a	84 278 8 8 8 8 8 8	15 278 t t t	6 2787 a a 8 a 8	2788 t t t	a a a a a	2790 c t t t	2791 a a a a a	2792 2 t t t t	793 2' t t t t	794 27 t t t t	95 27	96 279 a a a a	7 279 t t t t	8 2799 a a a a	2800 t t t t	2801 t t t t	2802 a a a a a	2803 c c c c c	c c c c c .	2805 2 t a a a a	806 21 8 8 8 8 8	c 1 c 2 c 1 c 1	08 280 t t t	t t t t t t t	2811 t t t	2812 8 8 8 8 8	2813 2 8 8 8 8 8	814 28 a 8 t 8 t 8	15 281 1	6 2817 a t t	2818 : a a a a a	1819 28 t t t t t t	20 283	8 8 8 8 8	t 2823 t t t t t t t t	2824	2825 2 a a a a a	126 28 t t t t t	127 282 8 t 8 t 8 t 8 t	8 2825 a a a a	2830 a a a a	2831 2 t t t t	832 28 t t a t a t a t	33 2834 C C C C	t t t t t	2836 28 a a a a a a a a	37
P. felciparum P. knowlesi P. vivax P. ovale cuttai P. malariae	28	38 283 a a a a	9 2840 a a a a a	2841 t t t t	2842 2 t t t t	843 28 a a a a	44 284	8 8 8 8 8	6 2847 c t t t	2848 a a a a	8 8 8 8 8 8	2850	2851 a a a a	2852 2 8 8 8 8	853 21 c t t t	854 28 c t t t	55 28	56 285 t t t	7 285 t t t t	8 2856 t c t t	2860 8 8 8 8	2861 8 8 8 8	2862 t t t t	2863 a a a a	2864 a a a a	2865 2 t t t t	866 28 c c c c	867 28 a a a a a a	58 286 t t t	c c c c c .	2871 t t t t	2872 a a a a	2873 2	874 28 8 8 8 8	75 287 t t t t	6 2877 a t t t	2878 : c t t t	1879 28 t ! t ! t !	80 288 8 8 8 8 8 8	c c c c	t 2883 t a a t	2884	2885 2	8 1 8 8 8 8 8 8	87 288 8 8 9 8 9 8 9 8	8 2881 a t t t	2890 t t t t	2891 2 8 8 8 8	892 28 t t t t	13 2894 t t t t	2895 a t t t	2896 28 8 8 8 8 8 8	97
P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	28	98 289 8 a a a a	9 2900 t t t t	2901 t a a a a	2902 2 t t t t	903 29 t t t t	04 290 8 8 8 8 8 8	8 8 8 8 8	a a a a a	2 2 9 0 8 a a a a	8 8 8 8 8 8	2910 c t t t	2911 t 8 8 8 8	2912 2 t t t t	913 2: a t t a a	8 8 8 8 8	15 29	16 291	7 291 8 8 8 8 8	8 2919 8 8 8 8 8	8 8 8 8 8	2921 t c c c	2922 a t t t	2923 c c c c c	2924 a a a a	2925 2 t t t t	926 21	27 29 a 1 a 1 a 1 a 1	28 292 a a a a a	2930 t t t t	8 8 8 8 8	2932 t t t t	2933 2 a a a a a	934 29 C t t t	35 293 c c c c	6 2937 t t t c	2938 : a a a a a	1939 29 c c c c c	40 294 8 8 8 8 8 8 8 8	8 8 8 8 8	t 2943 t t t t t t t t	2944 t t t t	2945 2 t t t t	2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	8 a 8 a 8 a 8 a	8 2945 a a a 8 a	8 8 8 8 8	2951 2 t t t t	952 29 t is a is a is a is	33 2954 a a a a a a a	t t t c t	2956 29 a 4 a 4 a 4 a 4	57 c c
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae		a a a	8 8 8 8	a a a a	8 8 8 8	c c c c .	t t t t t t t	a t t	t t t		t t t	t t t	a a a a	c c c c .	a a a a	t t t	c 1	a a a a	c c c	a a a a	a a a a	c c c	t t a a	a a a a	t t t	t a a a	t t t	t t t	a a a	t t t t t	a a a a	t t t	c c c c .	t t	t	a a a t	c c c	c :	2 2	c c c	t t a t	8 8 8 8	8 8 8 8	t a a a a a a a	a c a c a c a c	a a a t	a a a a	a a a a	a a a a a a a a a a a a a a a a a a a	g t a t a t g t g t	a a a t	3016 30 t t t t t t t t	t t t
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	1	a a a	a a a	t t t	t t t	8 8 8	2 2		a a a	t t t t t	8 8 8 8	t t t	a a a a	c c c c .	a a a a a	t t t	a 1	a a a	t t t	8 8 8	8 8 8	8 8 8 8	t t t	a a a	8 8 8 8	t t t	a a a a	a 1		t t t		8 8 8 8	8 8 8 8	t t t	t	g a a t	a a a a	t c :	c c c	a a a	t t t	a a a	8 8 8 8	t :	t c c c c c	a a a	t t t	c c c	a 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	t t t t t t	a a a a	3076 30	t t t
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae		t t t t g	c c c	2 2 2 2	t t t	t t t	t c c t c c	t t t	a a a		t t t	t t t	a a a a	t t t	a a a a	t t t	8 1	a a a	c c c	a a a		t t t		a a a a	c c c	t t t	t t t	t t t t t t t t t	8 8 8	8 8 8	t t a t	8 8 8 8	8 8 8 8	t a t a a a a a	c c c	t t t	a a a a	c c c c c	8 8 8	8 8 8	a a t	8 8 8	t t t	t a a t	a ta	a a t	t t t	t t t	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 8 8 8 8 8 8 8	t a t t	a i a i a i a i a i a i a i a i a i a i	a a a
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	1	8 8 8	c c c c c .	t a a a t	8 8 8 8 8	c c c c	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	t t t	t t t t	8 8 8 8	2 2200	t t t t	8 a a a a	t t t	a t t a a	8 8 8 8	c :	1 1 1	t t t	2 2 2 1 4	c c c c	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	t t t	8 8 8 8 8	a a a a	c t t t	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	c 1 c 1 c 1	t t t t	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	t t c t	t t t t	a a a a	t	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a a a a	a a a a	t t t t t t t t t t	8 8 8 8	c c c	t t t	c c c	a a a a	t t t t t t t t t t	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	c t c c t	c c c c	2 2 2	t t t t t t t t t t	1 1	t t t t	8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1	t t
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae		t t t	t t t	2 2 2 2 2	t t t t	c c c	2 2 2	t t t t	t a a t	8 8 8 8	8 8 8 8	t t t t	8 8 8 8	c c c	a a a c	2 2 2 2		a a a	t t t	t t t	8 8 8 8	8 8 6 8	a a a a	t t t	t t t	8 8 8 a a	t t t t	t 1 t 1 t 1	a a a a	c c c	a a a t	a t t	c t c c	1 a a a a a a a a	t	a a a a a	a a a a	8 8 8 8 8	8 8 8	8 8 6 c	t t t	t t t	t t t	t	c a a c a a c a	a a a a	8 8 8 8 8	a a a a	t a a a a a a a	2 2	t	t 1 t 1 t 1	
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	1	t t t	t t t	t t t	8 8 8 8	* * * * * * * * * * * * * * * * * * * *	a a a a	a a a	a a a a	c c c	a a a a	t t t	t t t	t t t	a a a a	c c c	8 1	8 8 8 8	a a a a	a a a a	a a a a	a a a a		t t t	c c c	t t a a	a a a a	t 1 t t	8 a a a	t t t t	a t a t	a a a a	t t t	a 6 a 6 a 6 a 6 a 6 a 6 a 6 a 6 a 6 a 6	t	a a a a	t t t	8 1 8 1 8 1 8 1	8 t 8 t 8 t 8 t	c c c	a a a a	a a a a	t t t	8 c c c c c c c c c c c c c c c c c c c	t t t t t t t t	a a a a	t t t	t t t	t t t t t t t t t t	t t t t t t t t t t t	t t t	3316 33 8 a a a a	t t t
P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malariae		8 8 8 8	8 8 8 8	t a a a	8 8 8 8	t t t	8 8 8		a t a a		t t t	a a a a	a a a a •	c c c t	a a a a	t t t		t t t	t t t	a a a	0 0 0	c c c		a a a a	t t t	8 8 8 8	c c c	a 1		t t t	t c c	t c c c c		tttt	8 1 8 1 8 1 8 1 8 1 8 1 8 1	a a a a		t :	2 2	a a a	tttt	8 8 8	t t t	a :	a ta ta ta ta ta	8 8 8 8	c c c	c c c	t t t	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	a a a a	3376 33 c c c c	8 8 8 8
P. fatciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	1	a a a a	ttt	t t t	c c c	c c c	8 8 8	15 338 a a a a	6 3387 t t t t	7 3388 t t t t	3389 a a a a	3390 t t t t	3391 c c c c	3392 3	393 3: a a a a	8 8 8 8 8 8	95 33 a a a a a a	8 8 8 8	7 339 c c c c	8 3399 t t t	3400 t t t	3401 t t t t	3402 a a a a	3403 a a a a a	3404 a a a a	3405 3 t t t t	8 8 8 8 8	8 8 8 8 8	38 340 t t t	8 8 8 8 8	8 8 8 8 8	3412 a a a a a	3413 3 a a a a a	414 34 t i t i t i	15 341 t t t t	6 3417 8 8 8 8 8	3418 : a a a a	1419 34 t t t t	20 342 t t t t	8 8 8 8 8	t 3423 t t t c t	3424 t t t t	3425 3 c c c c	126 34 t a a a a	27 342 a t a t a t a t	8 3421 t t t	8 8 8 8 8	3431 3 8 8 8 8 8	8 1 a 1 a 1 a 1	33 3434 C C C C	3435 a a a a	3436 34 a 4 a 4 a 4 a 4	37
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae		a a a	tttt	* * * * * * * * * * * * * * * * * * * *	3442 5 a a a a a	c c c	t t t t t t t	t	à	t	t																																									3495 34 a i a i a i	
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	1		a a a	t t t	t t t	a a a a	t t t t t	c c c	t t t	a a a a	t t t	t t t	a a a a	a a a a		t t t		8 8 8	c c c	t a a a	a a a a	2 2 2	a a a	8 8 8 8	c c c	a a a a	c c c	a 1 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a		t t t	a a a a	t t t		a a a a a a a a	2 2	t		a a a a	: c	c c c	a a a	t t t	8 8 8 8	t c c c t	c c c c c c c c	a a a a	t t t	t t t	8 a a a a a a a a a	a a a a a a a a	t t t	3555 35 a 1 a 1 a 1 a 1	t t t
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	1	a a a a	a a a	t t t	t t t	t t t	t t t t t t		a a a a		8 8 8 8	8 8 8 8	a a a a	a a a a		t t t t	a 1	8 8 8 8	8 8 8 8	a a a a		t t t	c t c c	c c c	t t t	t t t	t t t	t t t	8 8 8	* * *	a t t a a	a a a a .	t t t	t t t	t	a a a a	t t t	ttt	t t t t t t t t	t t t	t t t	a a a a	t t t	a 1 a 1 a 1	c a a c a c a	a a a a	a a a	t t t	t a t a t a t	t t t t t t t t t	a a a a	3615 36 a a a a a	c c c
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae		8 8 8	8 8 8 8	t t t	8 8 8 8	t t t	t t t t t t t		t t t		t t t	a a a a	8 8 8 8	c c c c .	a t a a	2 2	8 1	c c c	8 8 8 8	t t t		a a a a		a a a a	c c c	t t t	c c c	c c c	8 8 8	a a a	t a a a t	8 a a a		t t t t a t a t a t	c c c	t t t		a a a a	8 8 8	c c c	a a a	t t t	a a a a	t :	a a a	t c t t t	a a a a	8 8 8	t t t	a ta	a a a t	3675 36 c c c c	a a a
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. matariae		0 0	a a a	t t t	a a a a	t t t	t t t t t t t t t		a a a	a a a	8 8 8 8	a a a a	8 8 8 8	2 2 2	a a a a	t t t			8 8 8 8	8 8 8	a a a	* * * * * * * * * * * * * * * * * * * *		8 8 8 8	8 8 8 8	a a a a	t t t	8 8 8 8 8 8		8 8 8		t t t		t t t	8 8 8	a a a a		2 2 2	2 2	t t t t t t	8 8 8 8	c c c	a a a a	t t t	g c g c g c c g c c	t t a a	a a a	c c c	a 8 a 8 a 8 a 8 a 8	8 8 8 8 8 8 8 8	t t t	8	c c c
P. fatciparum P. knowlesi P. vivax P. ovale curtisi P. matariae			c c c	t t t a	c c c t	t t t	8 8 8 8		a a a a		t t t	t t c t	t t t	t t t	a a a c	t t t		a a a	0 0 0	t t t	t t t	a a a a		t t c	t t t t	t a a a	c c c c .	a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1	a a a a	tttt		t t t		a a a a a a a	8 8 8	a a a a	8 8 8	8 8 8 8	t t	t t t	a a a a	a a a a	a a a a	t :	t a	c c t t t	t t t	c c c	a 1 a 1 t 1 t 1 t 1	t a t a t a t a	t		t t t
P. falciparum P. knowlesi P. vivax P. ovale cuttai P. malariae	37	17 379 1 t 1 t 1 t 1 t	a a a a a	3800 t t t t	3801 3 t c t t	802 38 t t t t	03 380 a c a c a c	14 380 c c c c	3806 a a a t	3807 t t t	t t t t t t	3809 a a a a	\$810 t t t t	3811 3 c c c c	812 3: a a a a a	s13 38 t t t t	14 38 8 8 8 8 8 8 8 8 9	15 381 1 a 1 a 1 a 1 a	6 381 t t t t	/ 3818 a a a a a	3819 t t t t	3820	3821 t a a a a	3822 8 8 8 8 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1824 3 a a a t	825 31 t t t t	26 38 t g t a t a t a	27 382 a a a a a	t t t t t	3830 t c c t	3831 t a a a	\$832 3 t t t t	a 1 a 1 a 1 a 1	s4 383	3836 t t t t	3837 a 8 8 8 8	1838 38 t c c c c c	19 384 8 a t a t a t	10 384: 1 1 1	3842 a a a a	3843 t t t t	\$844 3 t t t t	\$45 38 t t t t	46 384 a t a t a t a t	/ 3845 t a a a a	8 8 8 8 8	\$850 3 t t t t	851 38 t t a t	s2 3853	1 3854 t a a t	3855 38 8 8 8 8 8 8	56 c c

P. falciparum P. knowlesi P. vivax P. ovale cutisi P. malarise	3857 3 t t t	858 38 t	59 3860 c t t t	3861 3 8 a a a a	862 38 t t t t t t	63 3864 8 8 9 8 1 8	4 3865 8 8 8 8	3866 3 t t t t	867 38 t t t	168 386 a t a t a c a t	9 3870 8 8 8 8 8	3871 3 t t t t	872 38 c t t	73 387	4 3879 a a a a a	3876 c c c	3877 : c c c c	1878 3 2 t t t	879 38 t t t	880 3E 8 8 8 8	81 388: 3	2 3883 8 8 8 8 8	3884 t a a a a	8885 3: c c c c	886 381	87 3888 a a a a a	3889 t t t t	3890 38 8 8 8 8	191 38 a a a a a	92 3893 8 t 8 t 8 t 8 c	1 3894 t t t t	3895 38 a a a a	196 389° t t t t t t	7 3898 8 8 8 8	3899 3 8 8 8 8 8	900 390 8 8 8 8 8 8 8 8	1 3902 t t t t	3903 : 8 8 8 8	3904 39 c c c c	05 390 a a a a a a a a	6 3907 c c c c	3908 : t t t	8909 391 8 t 8 t 8 t 8 t	0 3911 a c t t	3912 31 a a a a a	013 3914 t t t a t a t t t t	3915 3916 a
P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	t t t	a :	t t t	t t t	t t t	g t a t a t a t	t t t	a a a a	t t t	c c c t c t c t c t	t t t	0 0 0	a a a a	t t	4 3935 t t t t	3936 c c c c	3937 : c c c c	1938 3 a a a a a	939 39 8 8 8 8	940 39 t t t c	41 394; a g a t b t c t	2 3943 C t t	3944 : a a a t	8 8 8 8 8	946 394 t a t c t a t t	17 3948 a a a a	3949 t t t t	3950 39 t t t	151 39 t t t t t	52 3953 8 8 8 8 8 8 8 8 8 8	3954 t t t	3955 39 t t t t	156 395 a t a t a t a t	8 8 8 8	t t t	8 8 8 8 8 8 8 8 8 8	a a a a	8 8 8 8	8 8 8 8		a a a a	t t t	a c a c a c a c	t t t	8 8 8 8	t g t a t a t t t a	3975 3976 a 8 a 8 a 8 a 8 a 8
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malarise	3977 3 t t t t	978 39 8 8 8 8 8	79 3980 1	3981 3 c c c c	982 39	83 3984 t a a a t a t a	4 3985 c c c c	3986 3 a a t t	987 35 a a a a a	188 398 t a t t t t t t	a a a a	3991 3	992 35 a a a a a	93 395	4 3995 a a a a	3996 t t t	3997 : t t t t	1998 3 t t t t	999 40	000 40 t t t	01 400: 8 8 8 8 8 8 8 8 8	t t t t t	4004 a a a a a	t t c t	t a t a t a t a	07 4008 c c c c	4009 a a a a a	4010 40	11 40 t : t : t :	12 4013 1	4014	4015 40 t t t	116 401 c t a c a c t c	7 4018 t t t	4019 4 2 t t t	020 402 c c c c c c	1 4022 a t t	t t t t t	1024 40	25 4020 t a t 8 t 8 t 8 t 8	6 4027 - t t t t	4028 · t · a · a · t · t	8 8 8 C 8 C 8 C 8 C	0 4031 a a a a	4032 40 t t t t	(33 4034 t a t a t a t a	t 8 t 8 t 8 t 8 t 8
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	4037 4 t t t t	038 40 a 1 a 1 a 1 a 1	1 t t t t	8 8 8 8 8	042 40 t t t t	43 4044 a t a t a t a t	4 4045 t t t	t t t t t	047 40 a a a a a	048 404 t a t a t a t a	0 4050 C C C C	4051 4 a a a a a	052 40 t t t	63 405 a t a t a t	4 4055 a a a a a	t t t t	4057 · t t t t t t t t t	t c c c	059 40 t t t t	060 40 t t t t	61 406: t t t t	t t t t t	4064 a a a a a	c c	066 400 a t a t a t a t	57 4068 t t t t	4069 t t t t	4070 40 a a a a	071 40 c c c c	72 4073 a t a t a t a t	8 8 8 8 8	4075 40 8 8 8 8	176 407 t a t a t a t a	8 8 8 8 8	4079 4 c c c c	080 408 a c a c a c a c	1 4082 a t a a t	4083 4	4084 40 a a a a	85 408 t c t c t c	6 4087 · c c c c c c · ·	4088 · t · t · t · t · t · · ·	t t t t t t t t t	0 4091 a a a a a	4092 40 8 8 8 8 8	93 4094 8 8 8 8 8 8 8 8 8 8	4095 4096 t a t a t a t a
P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	t t t	8 8 8 8	t	a a a a	c c c c c	8 8 8 8 8 8 8 8 8 8 8	c c c c	t t t	: :	t a t a t a t a t	a a a a	2 2 2	112 41 a a a a	13 411	a a a a	0 0 0	0 0 0	c c c c		t t t	t t t t t t t	a a a a	t t t	125 4 c c c c	126 41: c a c a c a c a	27 4128 a a a a a	4129 a a a a	4130 41 t t t	131 41 c c c c c	32 4133 1 a 1 a 1 a 1 a	t t t t t t	4135 41 t t t	36 413 a a a a a a a a	8 8 8 8 8	4139 4 t t t	140 414 c t c t c t c t	1 4142 t t t t	8 8 8 8 8	a a a a	8 8 8 8 8	t t t	t a a t	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	a a a	8 8 8	8 a 8 a 8 a 8 a 8 a	t t t t t t t t
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	t t t	a :	ttttt	a a a a	2 1 2 1 2 1	8 a a a		4166 4 t a a c t	t t t	t t t t t t t t	a a a .	t t t	172 41 t a a a t	73 417	a a a .		t t t	t c c t t	t t t	t t t	81 418: a t a t a t	t t t	a a a a	c c c c c c c	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 a a a a a	8 8 8 8 8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	191 41 t :	92 4193 1 a 1 t 1 t 2 a 1 a	t t t	t :	1 8 t 8 t 8 t 8 t 8 t 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	4199 4 a t t	a t a t a t a t	1 4202 t a a t	2 2 2 2 2 2	t :	c c c c	6 4207 · c c c c c c c c c c c c c c c c c c	a a a	t t t t t t	a a a a	t t t	213 4214 c a c t c t c t	c a c a c a c a
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	t t t	c (t a a a a	8 8 8 8	a a a a	a a a a a a a a a a a a a a a a a a a	a a a a	t t t t t	8 8 8 8	c t c t c a c a	a a a a	t t t	c a a t	t t t t t t	a a a g	8 8 8 8	t t t	t t t	a a a a	2 2 2	2 2	0 0 0	a a a a	t t t	a ta	8 8 8 8	t t t	t :	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	t a a a	c c c .	c c c c c c c	a t a a a a a a	t t t	t t t	c a c a c a c a c a c a	4 4	a a a a	t :	8 8 8 8 8	t t t	t t t	c c c c c c c c c	t t a a	8 8 8 8	a a a a a a a a	1 4275 4276 t
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	8 8 8 8 8	t t t	c c t t	t t t t	t t t t t t t t t t	t c t t t t c t	t t t	a a a a	C C C C C	c a c a c a c	t t t t t	t t t	t t t t	a a a a	t t t t	8 8 8 8 8	c c c c c	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	a a a a a	t t t t	8 t 8 t 8 t 8 t 8 t 8 t 8 t 8 t 8 t 8 t	t t t	a a a a a	a a a a a	a a a a a a a a a a a a a a a a a a	a a a a a a a a a a a a a a a a a a a	c c c c	a a a a	8 1 a 1 a 1 a 1	12 4313 1 1 a 1 a 1 a 1 a	c c c	C C C C C C C C C C C C C C C C C C C	1 a a t a a t a a t a a t a a t a a t	8 8 8 8 8 8	t t t t	a a a a a a a a a a a a	1 4322 a a a a a	2 2 2 2	C C C C C C C C C C C C C C C C C C C	8 8 8 8 8 8 8 8	0 0 0	a a a a	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	t t t t t t t t	1 1 1 1 1	1 a 1 a 1 a 1 a 1 a	8 t t t t t t t
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malarise	a a a a a a	a 1	t t t	8 8 8 8	t :	t t t t t t t t t		a a a a	8 8 8 8	t a c a c a c g c a	t t t	0 0 0	t t a a	t t t t t t t t t	a a a a a	c c c c	a a a a a	2 2 2 4 1 8 4	t t t t	t t t t	t t t t t t t t t t t t t t t t t t t	t t t	a a a a a	t t t t	t c t t t t t t t t t t t	t t t t	t t t t	a a a a a	1 1	a a a a a a a a a a a a a a a a a a a	8 8 8	c c c c c c c c c c c c c c c c c c c	a 8 t 8 t 8 c 8 t 8 t 8 t 8	2 2 2 2 7 4438	a a a a a	c a c a c a c a c a c a c a c a c a c a	1 4442	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 8 8 8 8	45 444	8 8 8 8	t t t	t t t t t t t t t t t t t t t t t t t	a a a a a	a a a a a a	c a c t c t c c t	a c a c a c a c a c
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. matariae	t t t t	a ! a ! a !	a a t t	a a a a a	t :	63 4464	a a a a	a a a a a 4466 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	t t t t t t t t t t t t t t t	a a a a a	a a a a a	a a a a a	73 447	8 8 8 8 8	a a 8 t	t c c t	t a a a a	t t t t	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 8 8 8	t t t	8 8 8 8 8	c t c t c t c t c 486 441	a a a a a a a 7 4488	8 8 8 8 8	a :	8 8 8 8 8	2 t a a a a a a a a a a a a a a a a a a	t t t t	a a a a	t t t t t t t t	c c c c	t a t t	g t g t g t g t g t	t a a t t	c c c c .	c c c c c c c c c c c c c c c c c c c	05 450	t t t t	t 8 8 t t	a t a t a t a t a t	a a a a a	t t t t	8 8 8 8 8 8 8 8 8 8	t t t t t t t t t t t t t t t t t t t
P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malarise	t t t	a 1 a 1 a 1 a 1	8 8 8 8	t t t		t	c c c c ·	a a a a	t t t	t c t c t c t c	t t t t	4531 4	t t t t	c c c	t t t		t t t	a a a		t t t	t t t t t t t	8 8 8	8 8 8 8	a a a a	t t t t t t t t t t t t t t t t t t t	8 8 8 8 8 8 7 4548	8 8 8 8 •	a a a a 4550 45	t t t t t t t t t t	3 t 3 t 8 t 8 t	c c c c	à .	a t a t a t a t a t a t a t a t a t a t	t t t t	a a a a	c c c c c c c c c c	a a a	c c c c .	a a a a a a a a a a a a a a a a a a a	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	a a a a a 6 4567	t t t	a t a t a t a t	t t t	t t t	t c t c t t t c	a t a t a t a t a t a t
P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malarise	t t t	t 1 t 1 t 1	a a a a	t t t	a a a a	8 8 8 8	8 8 8 8	t t t	c c c	g t g t g t	t t t	t t t	a a a a	t t t t t t t t t	t t t	a a a a	t t t	t a a a t	8 a a a a	t t t	t t t t t t t t	t c c	a a a a	t t t	t t t t t t t t t t	t t t t t	t t t	c c c t	t :	t t t t c c t	a a a a	8 8 8	t g t g t g t g t g	8 8 8 8	t a a g t	t t t t t t t t t t t	a a a a	t t t	t :	8 8 8 8 8 8 8 8 8	t c c t	a a a a	c t c t c t c t	t t t	8 8 8 8	t t t t t t t t t t t t t t t t t t t	c a c a c a c a
P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malarise	t t t t	638 46	t t t t t t t t t t t t t t t t t t t	a a a a a	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	a c a a a a a a a a	8 8 8 8 8	a a a a a	a a a a a	c a c a c a c a c a c a c a c a c a c a	c c c t	4651 4	t t t t	a a a a a a a a a a a a a a a a a a a	t t t t	8 8 8 8 8	a a a a a	t t t t	t t t t	a a a a a	a a a a 61 466:	8 8 8 8 8	c c c c	t t t t	c c c c c c c c c c c c c c c c c c c	c c c c c c c c c c c c c c c c c c c	a a a a a	a : a : a : a : a : a : a : a : a : a :	8 8 8 8 8 8 71 46	2 a a a a a a a a a a a a a a a a a a a	a a a a a	a a a a a a a a a a a a a a a a a a a	c a c a c a c a c a c a c a c a c a c a	t t t t	a t t t t	t a t a t a a a a .	a a a a	4683	a a a a a a a a a a a a a a a a a a a	85 468	a a a a a a 6 4687	c c c c	a a a a a a a a a a a a a a a a a a a	8 8 8 8 8 8	a t 8 8 8 8	t t c t c t c t c t c t c t c t c t c t	8 t a c a c a c a c
P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malarise	8 8 8 8 8 8	a 1 a 1 a 1 a 1	a a a a a a a a a	a a a a a a 4701 4	8 8 8 8 8	a c a c a c a c a c a c a c	8 8 8 8	a a a a a a 4706 4	c t t t	a t a t a t a t a t	t c c t t	t t	c c c c	8 8 8 8 8 8 8 8 8	a t a a a	8 a a a a 4716	t t	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	t c t a c	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	g a g a	8 8 8	c c c	a a a	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	a a a a a a 27 4728	c c c c	a a a a 4730 47	a 1 a 1 a 1 a 1	a t a a a a a a a a a a a a a a a a a a	c c c c	a 1 a 1 a 1 a 1 4735 47	8 a 8 a 8 a 8 a 8 a	c c c c	c c c c	8 t 8 t 8 t 8 t	a a a a a	2 2 2 2 4743	8 1 8 1 8 1 8 1 4744 47	8 t t t t t t t t t t t t t t t t t t t	t t t t	a a a a a	t a t a t a t a t a t a t a t a t a t a	a a a a a	t t t t	t a t a t a t a t a a a t a a a t a a a t a a a t a a a t a a a t a a a t a a a t a a a t a a a t a a a t a a a t a a a t a a a t a a a t a a a t a a a t a a a t a a a t a a a a t a	t 8 t 8 t 8 t 8 t 8
P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malarise	t t t t t	t i t t t t t t t t t t t t t t t t t t	t a a t a a 59 4760	a a a a	762 47	8 t 8 t 8 t 8 t	t t t a	t a a a a 4766 4	8 8 8 8 8 •	8 a 8 a 8 a 8 a 8 a 768 476	t t t t	a a a a a 4771 4	a a a a a 772 47	73 477	t a t t	a a a a a	a a t a	t t a a	t t t	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	a a a a a a a a a a a a a a a a a a a	8 8 8 8 8	t t t t	t t t t	a c a c a c a c a c a c a c a c a c a c	c c c c c c c c c c	a a a a a	t t t t	91 47	8 C 8 C 8 C 8 C	t t t t	8 8 8 8 8 4795 47	t a t a t a t t t t t .	8 8 8 8 8 7 4798	a a a a	t 8 t 8 t 8 t 8	8 8 8 8 *	4803	4804 48	6 C 6 C 7 C 8 C	t t t t	t t t t	c 8 c 8 c 8 c 8 c 8	a a a a a a	4812 48	a t a t a t a t a t a t a t a t a t a t	a t a t a t a t a t a t a t a t a t a t
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	a	a 1	2	t	a	t t	a t t a t	t	a	g t g t g t g t g t g t g t g t g t g t	•	t	t	a •	t	c	8	à	g	t	a	a a	c	•	t 8 t 8 t 8 t 8	c	t	c	a	c	c	8		a a	a a		a			t	a a		c 8		t	a t	t a t a t a t a t a t a t a t a t a t a
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malarise	4877 4	878 48	79 4880		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	83 4884	c c	4886 4	887 48	188 488	9 4890	4891 4	t t *		8 8 8 •	c c c	4897	898 4	8 8 • 899 49	2 2	01 490	4903	4904	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	t a	77 4909	4909	4910 49	111 49	12 4913	4914	4915 49	16 491	7 4918	4919 4	920 492	1 4922	4923 4	4924 49	25 492	6 4927	4978		t t •			8 t 8 t 8 t 8 t
P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	t t t	1 1 1	t t t a	a t	2 1	43 4944	8 8 8	a a a a a 4946 4	1 1 1	a c a c a c	8 8 8	t t t	t t	53 495	t t t	a a a	4957	t a	8 8 8 .	t t t	61 496	8 8	8 8	2 2 2	t 8 t 8	t t	4967	4968 49	8 1 8 1	70 4971	4972	4973 49	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	t t	4977 4	8 t 8 t	9 4980	4981 4	4982 49	c c	4 4985	c c c	987 498	t t t	4990 49	a t a t a t	4992 4993
P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malarise P. falciparum	4994 4	995 49	06 4997	4998 4	999 50	00 5001	1 5002	5003 5	004 50	105 500	6 5007	5008 5	009 50	10 501	1 5012	5013	5014	015 5	016 50	017 50	18 501	5020	5021 !	5022 5	023 502	24 5025	5026	5027 50	28 50	29 5030	5031	5032 50	33 503	4 5035	5036 5	037 503	8 5039	5040 5	5041 50	42 504	3 5044	5045	046 504	7 5048	5049 50	050 5051	a a a a a a a a a a a a a a a a a a a
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P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	5174 5	175 51	76 5177	5178 5	179 51	80 5181		8 8 8 8 8 8	184 51	85 518	6 5187		189 51	90 519	1 5197	t t t	t t t	195 5	8 8 8 •		c c	t	a a	t	t a a a t t t a a a a a a a a a a a a a	t	t t t t	5204 52	t		5208		10 521	1 5212	5213 5	214 521	5 5216	5217 5	5218 52	19 522	0 5221	a a *	t c t c t c	a a a *	5226 52	a t a t a t	8 t 8 t 8 t 8 t 8 t
P. felciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	t t t	t 1 t 1	2 2 2 2	t t t	2 1 2 1 2 2 1	8 t 8 t 8 t 8 t 8 t 8 t 8 t 8 t 8 t 8 t		c c c	a a a	t 8 t 8 t 8 t 8 t 8 t 8 t 8	8 8 8 8	a a a a	8 8 8 8	t t	a a a a		8	2 2	c c				t t t		200 520 - a t a t a t a	c c c	c c c	a a a a	c 1	a a a a	t t t	t :	c a c a c a c a	ttt	a a a a	8 a 8 a 8 a 8 a	8 8 8 8	2 2 2	c c c c .	a a a a a a a	0 0 0	t	a a t a a c a t a	t	8 8 8 8	g a g c g c g c s	a t a t a t a t

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P. falciparum P. knowlesi P. vivax P. ovale cutisi P. malariae	107 157 157 157 157 157 157 157 157 157 15	t c t c t c t c
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P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malariae	18 18 18 18 18 18 18 18	5766 5767 t t t t t t t t
P. falciparum P. knowleai P. vivax P. ovale cuttisi P. malariae	548 548 549 579 577 577 577 577 577 577 577 577 57	t t
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P. falciparum P. knowlesi P. vivax P. ovale curtisi P. malariae		5946 5947 t t t t t t t t
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