

MS32 allele database

* 3' succession of 0 s indicate termination of s (<50 repeats) and are included specifically for dot-matrix analysis.

ID	sample	allele	code	MVR haplotype*
1	SUJE	U	e	atataataaaaaaaaaataaaaataataaaaaattaaaaaaaaaaaaaaaaaaaaaaaaaaaa
2	SUJE	L	e	tattatataataataaaaattaaaaaaaaaaaaaaaaataaaaaaaaaaaaaataaaaaataaaaa
3	MAGO	U	e	taaaaaaaaaaaa0aaaaaa0aaaaaa0aaaatatttataaaaaaaaaaaaaaaaaaaaaaaaa
4	SITO	U	e	aaattttttttattttttatttttttaattataataataataatttataat0atatatttaa
5	PEWI	U	e	aaaaattataaaaaataattattataatataaaaaataataataaaaaataaaaaaaattttttt
6	PEWI	L	e	aaataaaaaataatattttatttaataaaaaataaaaaaaataaaaaaaataaaaaaaataaaaa
7	JOAR	U	e	aataaaaaattttattttattttataaaaaataattattttataatataaaaaattaaaattaaatt
8	STSA	U	e	ataataataataataataataataataatttaaaaataataaaaaataaaaaattttattttataaa
9	STSA	L	e	aaaaaaaaaaaaataaaaataaaaataatttttaaaaaaaaaaaaaaaaaataaaaaataaaaa
10	MABL	U	e	aaataaaaaataaaaaataatttataaaaaataaaaaaaataaaaaaa0ataaaaaataaaaaattta
11	MABL	L	e	taaaaaaaaaaaaaaaaaaaaaaaaata0atataaaaaaaataaaaaataaaaaataaaaaatttt
12	CLRO	U	e	ttaaaaataaaaaaaataaaaaaa0taaaaaataaaaaaaataaaaaataaaaaataaaaa
13	CLRO	L	e	taaaaaaaaataattattttatttaataaaaaataaaaaaaataaaaaaaataaaaaaaataaaaa
14	JEFO	U	e	atataataaaaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
15	JEFO	L	e	atttttaataaaaaaaataaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
16	JIMA	U	e	ataataataataatattttaaataataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
17	JIMA	L	e	aaaaaaataaaaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
18	KAMC	U	e	aaaaaaataaaaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
19	KAMC	L	e	aaaaaaataaaaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
20	MEOW	U	e	taaataataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
21	MEOW	L	e	aataaaaaaaataatttttaataaaaaataaaaaaaataaaaaataaaaaataaaaaataaaaa
22	CEPH1701	1	f	aaaattttaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
23	CEPH1701	2	f	aaaaaaaaaaaaataaaaaataaaaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
24	CEPH1702	3	f	ataaaaaataaaaaataaaaaaaataatatttataaaaaataaaaaataaaaaataaaaa
25	CEPH1702	4	f	taataaaaaataatttttaaaaaataattttaaataaaaaataaaaaataaaaaataaaaa
26	CEPH2301	1	f	taaaaattaaaaaaataaaaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaa
27	CEPH2301	2	f	atttaaaaataatttttttttttttttaaaaaataatataaaaaataaaaaataaaaa
28	CEPH2302	3	f	tatatataataataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
29	CEPH2302	4	f	ataaaaaaaataaaaaataaaaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
30	CEPH2801	1	f	taataaaaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
31	CEPH2801	2	f	aaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
32	CEPH2802	3	f	aaaaatttaataaaNataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaa
33	CEPH2802	4	f	attttaatttaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
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35	CEPH3501	2	f	aaNa
36	CEPH3502	3	f	aaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
37	CEPH3502	4	f	taaaataaaaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaa
38	CEPH3701	1	f	aaaaaaatttaataaaNataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
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40	CEPH3702	2	f	taaaaataaaaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
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44	CEPH4502	3	f	aaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
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46	CEPH6601	1	f	aaaaaaaaaaaaaaaaaaaaaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
47	CEPH6601	2	f	aataataataataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
48	CEPH6602	3	f	ataaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaa
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51	CEPH88401	2	a	aaaaaaaaataaataataatt
52	CEPH88402	1	a	ttttaaattattttaaatttaatttaaatataaaatttaatttaatttaatttaaatataaaa
53	CEPH88402	3	a	aaataatttataaaaaaattataaaataaaaaaattataaaataaaaaaattattttatatttt
54	CEPH133101	1	m	taa0aaa0aaaaataaaataaaaaataaaaaataaaataaaaaaattataaaataaaaaaaa
55	CEPH133101	2	m	ataaataaaaaaaaaataaataaaaaataaaataataaaataaaaaataaaaaaataaaaaaaa
56	CEPH133102	3	m	aaaaaaaaataaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaataaaataaaataaaataaa
57	CEPH133102	4	m	aaaaaaaaataatataatttttaaaattaaaaataaaaaataaaataaaataaaataaaataa
58	CEPH141301	1	m	atataaataaaaaataaataattataatUatatttaatttaatttaaaatttaaaatttaaaataa
59	CEPH141301	2	m	aaaaaaaaNaaatttaaaataatataaaaaaaaaataatattataattataaaaaaattataaa
60	CEPH141302	3	m	aaataaaaaaataatattttaaaataaaaaaataaaaaataaaaaaataaaaaaNNNaa
61	CEPH141302	4	m	taaaaaaaaataaaaaaataatatttttaaaataaaaaataaaaaataaaaaataaaaaataat
62	CEPH142401	1	m	aaatttaaaaaaaaaaaaaaaaaattataattataataataaattattataatataaaaa
63	CEPH142401	2	m	ataaaaaaaaaataaaaaataatatttaaaatttaaaatttaaaatttaaaatttaaaaaaaa
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70	CEPH136202	3	m	aaataaataaaaaatttaaaaaatttaaaaaaataaaaaaataaaaaaataaaaaa
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76	CEPH134601	1	m	taaaataaaaaattattataatataaaaaaataaaataaaaaataaaaaaataaaatttt
77	CEPH134601	2	m	taaaaataaaaaataatttttaaaaaataatataataaaaaataatataaaaaaataaa
78	CEPH134602	3	m	ataaaaaataaaaaaataaaaaataaaaaataaaaaaataaaaaaataaaaaaataaa
79	CEPH134602	4	m	taaaaaaaaaaaaaaaaaaaaaaaaaata00000000000000000000000000000000
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81	CEPH134901	2	m	tatttttaaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaa
82	CEPH134902	3	m	aaattatttaatttaaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaa
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86	CEPH0202	3	f	aaataaaaaataaaataaaaaataaaaaataaaaaataaaataaaataaaaaaataaaa
87	CEPH0202	4	f	aaaaataatttttaataataaataaaataaaataaaataaaataaaataaaataaaata
88	KETA	1	j	aaaaaaaaaataaaaaataatataatataaaaaaataaaataaaataaaaaaattttatt
89	KETA	2	j	aaaaaaaaaataaaaaataatataatataaaaaaataaaataaaataaaaaaattttatt
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91	CEPH137502	4	m	tataaaaaaNataNaaaNataNataNaaaaaataaaNataNaaaNataNata
92	CEPH137701	1	m	taaaaataaaataaataaataaattttataat0atatttaaaatttaaaataaaaaataa
93	CEPH137701	2	m	ataaaaaataaaaaataaaataaattatttaatttaataa0ata0ata0aaa0ata0ata0aaa
94	CEPH137702	3	m	taaaaataaaaaataaaaaataaaataaattatttttaatttaataaNataNataNaaa
95	CEPH137702	4	m	aaaaaaaaaaaaaataaaataaaaaaataaaaaataaaaaataaaataaaaaaataaaa
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97	CEPH142301	2	m	taaataaaatttttataatttaataataaaaaataaaataaaataaaataaaataaaata
98	CEPH142302	3	m	aaaaataaaNaaaatttaatttttaaaataaaaaataaaaaataaaataaaataaaata
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103	CEPH1329301	2	m	aaataaaaaataaaataaaattattattataaaataaaaaaataaaaaaataaaataaaa
104	CEPH1329302	3	m	aaaaatttttaaaaaatttttataaaatttttataaatttaataattttataaataaatt

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105	CEPH1329302	4	m	aaataaaataaaaaatattattattttatataaaaaataaaaaataaaaaa
106	CEPH142001	1	m	aaaaaaaaatTTTTaaattaaaaataaaataaaaaataaaaaataaaaaa
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117	CEPH134102	3	m	aaaaaaaaaaaaataaaaaataaaataaaaaataaaaaataaaaaataaaaaataaaaaa
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157	CM30	2	e	aaataaaaaataaa?NaaaNtaa?at??Taaataaaaaataaaaaataaaaaata
158	CM28	3	e	ataaaataaaat?attataa?aa??attataaataaaaaataaaaaataaaaaa
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162	CM25	3	e	?aa?Na?aaaa?aaNataaaaaattt?a?aaNataaaaaataaaaaaaa?ttaataaNataNa
163	CM25	4	e	?tt?ta?ataa?taatatataatt?a?ataaataatataaaaaaa?taaaaaaaaaaaa
164	CM123	1	e	aaaaat??ttat?aaa?atattttaaaaataaaaaaa?aaaataaaaataaaaataatattt
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166	CM121	3	e	ataaaa??aaaa?tta??aaNataaaaaataaaaaaa?ttaataaNataNataNaNaNaNa
167	CM121	4	e	atataaa??aaaa?aaa??taaaaaataaatataaaat?atataaaataaaaaaaaaaaaaa
168	CM138	1	e	att??aaaaaaaaaatttaa?aaaaaaaaaaaaaaaaaaa?aaaaataaaaaaattaaa?aa?aaa?t?
169	CM138	2	e	tta??aaaaataattatta?aatatataaaaaaaata?ataaaaaataaaaaattta?at?tata?t?
170	CM136	3	e	tta??aatataaaaaaaat?aaataatataatata?ataaaaaaaatataaaa?aa?ataa?a?
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186	CM43	3	e	ta?ttaaaaattta?taaaaaaaata?ta?aattttaaat?aaaa?aaaaaaataaa
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197	CM84	2	e	aaaaaaataaaaaataaaaataaaa?aaaaaaaaaaaa??ttttaaaaa?taaaataaaaaaaataaaaaaa
198	CM82	3	e	aaaNataNa
199	CM82	4	e	aattttaatttaaaaaaaataaaa?aaaaaaaaaaaa?atatttaaaa?aaaaaaaaaaaaaaUUaaaa
200	CM93	1	e	ataatta?a?ataaatt?taaa?aa?aaataat?ataaaat?ataa?ttaataa?aaataa?
201	CM93	2	e	taaaaaa?a?aaataaaa?aaaa?aa?taataa?ataaaaa?ataa?aaaataa?aaaatt?
202	CM91	3	e	aaaataa?t?aaaaata?aaata?ta?taaaata?aaataa?atta?NaNNaa?NataNa?
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213	CM150	2	e	aaaataaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaaa
214	CM148	3	e	aaaaaaaaaaaaataaaaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaaa

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MS32 database

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MS32 database

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MS32 database

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MS32 database

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MS32 database

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699	AC67	1	ac	aattattt0aa0aaaa0aatatftttttatatttttt000000000000000000000000
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706	AC73	2	ac	aaaaaataaataaaaaaaataatfttaaaataaaaaataaaataaaaaataaaaaataaaaa
707	AC79	1	ac	aaataaataaaataaataaataaattttattataaataatfttttaaaaaataaaaaataaaaaaatt
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MS32 database

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711	AC87	1	ac	aattattt0aa0aaaa0aatattttttatatttttt0000000000000000000000000000
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715	AC92	1	ac	aaaaaaaaaaaaaaaaaataaataaaaaaaaaaataaataaaaaataataaaaaataa
716	AC96	1	ac	aattattt0aa0aaaa0aatattttttatatttttt0000000000000000000000000000
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718	AC99	1	ac	aattattt0aa0aaaa0aatattttttatatttttt0000000000000000000000000000
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727	CMAC58	2	ac	atataaataaataattttatt0aataaataaataaataaattttttttt
728	CMAC58	1	ac	aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaataaaaaatttttttaaaaaa
729	CMAC51	1	ac	a?tttataataaaaaataaataaataaataaataaataaataaataaataaataaataa
730	CMAC62	2	ac	aatataaaaatattattttattataaataaaaaataaaaaaaataaaaa
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739	CMAC70	2	ac	aattattt0aa0aaaa0aatattttttatatttttt0000000000000000
740	CMAC50	1	ac	ataataataaaaaataaataaataaataaataaataaataaataaataaataaataaataa
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743	AF9	1	af	aaa
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745	AF12	2	af	?tataaattatttttatatttttaaaaaaaaaaataaaatttatt
746	AF14	2	af	?tattat0attaatttat0atttatatttaa0ttt0ttatatt0taataaa0att0ttataataaatt0tt0ttattaa
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752	AC61	1	ac	aaa
753	AC61	2	ac	?????aaaaataaaaaataaataaataaataaataaataaataaataaataaataaataa
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756	AC78	1	ac	aaattttataaatttattt00aaaaaaaaaataaaaaaataaataaataaataaataaataa
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758	AC82	1	ac	aaa
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763	BRB	1	ac	aaataaataaataaataaataaataaataaataaataaataaataaataaataaataa
764	BRB	2	ac	tataaataataaataaataaataaataaataaataaataaataaataaataaataaataa

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765	LRIS52	L	e	taataataattaaaaatatt0ataattttaaaatataataatttttttttattattataaaaaataataaa
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767	WI2	L	ac	aaatataaaaatataataaaaataaaaataaaaatataataaaaatataataaaaatataataaaa
768	WI2	U	ac	aaaaataaaaatataattttttaaaaaaaaaaattattatattttataattttt
769	WI1	U	ac	aaaaataaaaatataattttttattataaatttttttaaaaaaaaaaaaaaaaaaattata
770	WI1	L	ac	aaaatataataaaaaaaaaaataatataaaaaataaaaaaaaaaatttttaaaaaataaa
771	WI4	L	ac	tt0aa0aaaa0aatattttttatattttttt00000000000000000000
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775	TIBO	L	e	taattataatattataaaaaataattattattattttt000000000000000000000000
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778	LRISN	U	e	aaataaaaataaaaataaaaaataaaaaaattataaa0ataaaaaaaaaaaaatataaa0ata
779	LRIS82	U	p	aaaaaaaaaaaaatataatataaaaaaataaaaaataatataatttaattataaaaa
780	LRI43	U	e	tattattaaaattttaataaaaaaaaaaaaaataaatataataaaaaataaaaaatatttaataa
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782	LRI6	U	e	atataaaaaaaatataataataatataataaaaaaaatataataaataataatataatata
783	ALJE	U	e	taatttaaaaaaaaaaaaaaaaaaaaaaaaaaaaaataaaaaataaaaaaataaaaaaataaaaa
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786	WI13	U	ac	aaaaaaaaaaaaaaaaaaaaaaaaaaaaataaaaaaataaaaaaataaaaaaataaaaaa
787	WI13	L	ac	aaataaaaaataatataaaaaataaaaaataattttaaaaaataaaaaataaa0aaataaaata
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789	LRINP	L	in	aaaaaaaaataatttttaaataaaatataaaataaaatattt0000000000000000000000
790	LRIS2	L	p	ttaataaaaataaaataaaataaaatattt00000000000000000000000000000000
791	LRI50	L	g	atataaaaataaaatataaa0aaaaaaaaaaaaataaaaaataaaaaataaaaaataaaaaa
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793	LRIJR	L	e	aaaaataataaaaaaataaa0ata0aaaa0ata0atataaaaaa0aaaaaaaa
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796	LRIS22	L	in	aaaaaaaaataatattataaatt00
797	LRIS81	L	e	aaataataataaaaaaataaaaaaataaaaaaataaaaaaataaatt0000000000000000
798	LRIS82	L	in	aaaaaaaaaaaaaataaaataaaatattataaatt0000000000000000000000000000
799	LRI43	L	e	aaaaaaaaaaaaaaaaaaaaaataatt0000000000000000000000000000000000
800	LRIS62	U	e	aaaaaaaaaaaaataattttttttaataatattatattataaataataatattttaaataaa
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805	LRIRL	L	g	aaataaaaaataaaaaaataaaataaaaaataaaataaaataaaataaaataaa
806	LRIS32	L	e	attttaaaaataataataaaataaaataaaataaaataaaataaa0aa0aaa0ata0aa0aaa
807	LRIS62	L	e	aatttataaaaaaa0aaaaaaaaaaaaaataaataaaataaaataaaataaa0000000
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812	CMAC72	2	ac	aattattt0aa0aaaa0aatattttttattttttt0000000000000000000000000000
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817	CMAC12	1	ac	ataaaaaaataaaataaaataaaataaaataaaataaaataaaataaaataaaataaaata
818	CMAC15	2	ac	0aaataaaataaaatattt0aaataaaataaaataaaataaaataaaataaaataaa
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820	CMAC71	2	ac	a0aaaa0aatatTTTTtataTTTTTT000
821	CMAC91	2	ac	ataaaaaataaaaaataaaaaataTTTTataaaaaataatttaata?ttt
822	CMAC91	1	ac	ataataaataaaaataataaaaTTTTTTTaaataaatTTTT
823	CMAC88	2	ac	tttaaaataaaaaaaaaaaaaaaaaaaaaaaaaaaattataaatt
824	CMAC82	1	ac	tttattttaaaaaataaaaaaaaattaaaaaaaataaaaaaaaataaaa
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828	CMAC6	2	ac	atataaataaaaataaaaataaaaaaaattTTTaaataaaaaaaaaaaaaa00aaaaaaaa
829	CMAC100	1	ac	ttaaattattt0aa0aaaa0aatatTTTTtataTTTTTT000000000000000000000
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831	CMAC7	1	ac	aaaattaaatataTTTaatataTattTTTaatataaataa0aaaata0aaaaattaatataaat
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834	CMAC11	2	ac	aaataataaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaattaaaaatt
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856	CMAC60	2	ac	aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaataaaattaaaaaa
857	CMAC68	1	ac	aa
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862	R9	U	zim	aa
863	R9	L	zim	aattattt0aa0aaaa0aatatTTTTtataTTTTTT0000000000000000000000000
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866	R24	U	zim	aa
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872	R35	U	zim	aa00aaaaaaaaaaaaaaaaaaaaaaaa
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876	R47	U	zim	aattattt0aa0aaaa0aatatttttttatatttttt0000
877	R47	L	zim	aaaaaaaaataatattatt00000000000000000000
878	R51	U	zim	aaaaaaaaaataaaaaaaaaaaaaaaaaaaaaaaaaaaaaa??aaaaaaaaaaaaaaaaaaaa
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913	JAP515	1	j	aaatttttttaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaata
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915	JAP518	1	j	aattaaattaaataaataaataaataaataaataaataaataaatttaaaataaataaataaataaataa
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MS32 database

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MS32 database

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1164	TH88	1	th	ttaaatattttaaataatttatttatttattttaaataa0ataatatttattttaaataa0ata0ata0aa
1165	TH88	2	th	atataataaaaaaaataaaataaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa0a0aaaaaa
1166	TH86	1	th	ataaattaaaaaaaataaaaaaaataaaaaaaataaaataaaaaaaataaaaaaaataaaaaaa
1167	TH86	2	th	ataataataaaatttaaaaaaaattaaaaaaataaaaaataaaaaataaaaaaaataaaaaaa0a0aaaaaa
1168	TH81	1	th	aaaaaaaaattataatt000
1169	TH81	2	th	aaaaaaaaaaaaataatataataaaaaaaataatttaaaaaaaataaaaaaa
1170	TH80	1	th	aaaaataataaaaaaaataaataaaataaaataaaaaattataattttaaatttaataaaaa
1171	TH80	2	th	aaaaaaaaataataatatt00
1172	TH77	1	th	atatttattttaaataaata0ata0aaat0aa0aaaaattaaaaaaataaaaaatatt
1173	TH 77	2	th	ttaaaaaaataaaaaaaataaataaataaataaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1174	TH 70	1	th	ataaaaaaaataaaaaaaataaaaaaaataaataaataaataaataaataaataaataaataaataaataa
1175	TH 70	2	th	aataaaataaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1176	TH 68	1	th	aaaataaaaaaaataaaaaaaataaaaaaaataaa0aaaaaaataaataaataaataaataa
1177	TH 68	2	th	0aaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1178	TH 67	1	th	aaaaattaaaaaaataatataattttaaattaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1179	TH 67	2	th	ttaaaatatttataatataaaaaataaaaaataaaaaataaaaaatttttaataatataaaaaaa
1180	TH 65	1	th	tattaaaaattta0aataaatt0aataatataatataatataatataatataatataatataatataat
1181	TH 65	2	th	0aaaaaaataaatttaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1182	TH 48	2	th	aaaaaaaaaaaaaaaaaaaaaaaaaaataaattttaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1183	TH 34	1	th	aatataaaataaaattaaattaaataaaaaataaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1184	TH 34	2	th	taaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1185	TH103	1	th	aaaaaaaaatttttataaaataaaataaataaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1186	TH 25	1	th	?a?aaatttaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1187	TH 25	2	th	aaattaaataaataaataaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1188	TH 23	1	th	taaaaataaattaaaaataatatttttaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1189	TH 2	1	th	aaaatataatataaaaaaaataatataaaaaaaataaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1190	TH 2	2	th	aaaaaaaaaaaaataatttttaaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1191	TH190	1	th	aataaaataaaataaataaataaaaaaaataaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1192	TH190	2	th	aaaaataaaaaatatttttaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1193	TH189	1	th	??tataatataaaataaaataaataaaataaataaaataaataaaataaataaaataaataaaataaataaa
1194	TH189	2	th	aaaaaaaaaaaaaaaa00000aa
1195	TH187	1	th	ataaaaaaaaaaaaaaaaaaa?ataaaaaataaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
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1198	TH184	2	th	aaaaataaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa000aa0aaaaaa
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1201	TH179	1	th	aaaaataaaaaaaataaaataaataaataaataaaaaaaatttaaaataaataaataaataaataaataa
1202	TH179	2	th	aaaaaaaa00aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa0a00aaaaaaaaaaaaaaaaaaaaaaaaaaaa
1203	TH177	2	th	aaaaaaaaaaaaataaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa
1204	TH176	2	th	aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaatt000000000000000000000000

MS32 database

1205	TH175	1	th	tataattaaaaaaaaataaaaaataaaaaatatttttaattaaaaaaaaaaaa
1206	TH169	1	th	aaaaaaaaataataaaaaaaaaataattattatatttttaattaaaaaaaa
1207	TH169	2	th	aaaaaaaaataataatttttaataaaaaaaaaaaaaaaaaataataatttttaataaaaaaaaa
1208	TH165	1	th	atatttaataatatttaataaaaaaaaaaaaaaaaaatttatattttaattaataaaaaataaaa
1209	TH165	2	th	aaaaaaaaataatatttttaataaaaaaaaaaaaaaaaaataatatttttaataaaaaaaaaaaaaaaaa0a0aaaa
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1211	TH162	2	th	taaaaataaaaaataaaaaataaaaaataaaaaataatttaaaaaataaaaaaaaaaaaaaaaaataaaaaataaaaa
1212	TH158	1	th	??aaataaaaaaaaataaaaaataaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
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1214	TH156	1	th	0aaaaaaaaataataaaaaataataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
1215	TH156	2	th	aa0a0a0aaaaaaaaaaaaaaaaaaaaaaaaaaaa
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1219	TH154	2	th	aaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
1220	TH153	1	th	aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaataatatt000000000000000000000000
1221	TH153	2	th	tatttaataatataatataaaaaataaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
1222	TH151	1	th	0aaaaaaaaaaaaataaaaaaaaaataaaaaataaaataatataatataatata
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1226	TH142	1	th	taataatataaaaaataaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
1227	TH142	2	th	taaaaaataaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
1228	TH137	1	th	aaaaaaaaaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
1229	TH13	1	th	aaaa0aaaaataaaatttaaaatttaataaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
1230	TH13	2	th	aaaataaaataaaataaaataaaataatattttataatataaaataaaataaaataaaataaaataaaatatttaatt??tat
1231	TH116	1	th	atataaaataaaataaaataaaataaaataaaataaaataaaataaaataaaataaaataaaataaaataaa
1232	TH105	2	th	aaaaataaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
1233	TH103	2	th	aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaataatatttttaataaaaaataaaaaataaaaaataaaa
1234	TH1	1	th	taatttaaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaata
1235	TH1	2	th	aataaaaaataaaataaaataaaataaaataaaataaaataaaataaaataaaataaaataaaataaaata
1236	TH3	1	th	aaaaaaaaaaaaataaaaaataaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa000000
1237	TH3	2	th	aaataata0attaaaaaaaaaaaaaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
1238	TH23	2	th	aaatt00000000000
1239	TH48	1	th	aaataaatataatataatataatataaaataaaataaaataaaataaaataaaataaaataaaataaa
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1242	TH116	2	th	taaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
1243	TH118	1	th	ataaaaaataaaaaataatataatataatataaaataaaaaataatataatataaaa
1244	TH118	2	th	taaaaaataaaataatatttttaataaaataatatttttaaaaaataaaaaataaaaaataaaa
1245	TH131	2	th	tataataata0aataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
1246	TH132	1	th	aaaaaaaaaaaaataaaaaataaa0ataatataatataatataatataaaa
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1248	TH175	2	th	taattaaataaaaaataatatttttaaaataaaaaataaaataaaataaaataaaataaaataaaaa
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1250	TH177	1	th	aaataataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaa
1251	M12	1	th	aattttaattattattatttaatttttaataa0ata0aaa0ata0ata0aaataaaaaataaaaa
1252	M12	2	th	ataaaataaaataaaaaataaaataaaaaataaaaaataaaataaaataaaataaaataaaaaataaaaa
1253	M19	2	th	aaataatttttaaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
1254	M23	1	th	tataataatttttttttaataaaaaataaaaaataaaaaataatataatataaaaaataaaaa
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1256	TH5	1	th	???aaaaaaaaataatatttttaaaataaaaaataaa
1257	TH31	1	th	???aaaaaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaa
1258	TH31	2	th	???aaaaaaaaataaaataaaaaataaa
1259	TH40	1	th	???aaaaataaaaaataaaataaaaaataaaataaaaaataaaaaataaaataaa

MS32 database

1260	TH55	1	th	???aaaaaatttaaaaaatttaaaaaattataattatttataaaattataattaataaataa
1261	TH78	1	th	???taattataaaaaaaaaataaaaaataattttatttaataataat
1262	TH89	1	th	??taattataataaaaaatataatataaaaaataataataaaaaataaaaaat
1263	TH89	2	th	?aaaaaataaaaaataaaaaataattttaataatatttataaaaaataaaaaat
1264	TH108	1	th	?aaaaattaaattaataaaaaataaaaaataaaaaataaaaaatt
1265	TH163	1	th	aaatatataaataaaaaataaaaaataaaaaatttaaaataataat
1266	TH166	1	th	aaaaataaaaaataatataatataaaaaataaaaaataaaaaattatatttatattttataaa
1267	TH170	1	th	aaaaaataaaaaaataataaaaaataaaaaataataatataatataatataatatt
1268	TH188	1	th	aaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataaaaaat
1269	QIYU	2	ch	???aaaaaataaaaaatttaaaaaataaaaaataaaaaataaaaaataaaaaataaaaaataat